

Analyse factorielle des correspondances des causes de décès par pays

Mkrtchyan, Toure

Table of contents

1	Introduction	2
2	Analyse factorielle des correspondances des causes de décès par pays	2
2.1	Préparation des données	2
3	Analyse exploratoire	4
3.1	Chargement des données	4
3.3	Visualisation des données par barplots	5
3.3.1	Arménie :	5
3.3.2	Mali :	6
3.3.3	France :	7
3.4	Comparaison de pays	8
3.5	Profils ligne et colonne	9
3.6	Comparaison des pays, graphiques de profils ligne et colonnes avec ggplot2	11
4	Analyses avancées (AFC et Tests)	13
4.1	Test du khi-deux et V de Cramer	13
4.2	Lancement de l'AFC	84
4.3	Critère du bâton brisé pour sélectionner les axes	91
4.4	Analyse des contributions des lignes et colonnes	93
4.5	Distances au centre de gravité	113
5	Conclusion	121
6	Références	122
6.1	Articles, manuels R, sources des données	122

1 Introduction

En 2019, en Afrique subsaharienne, les maladies non transmissibles représentent environ 35 à 40 % des décès chez les adultes, d'après les données mondiales de l'OMS. Intuitivement, les infections pourraient pourtant être considérées comme dominantes, compte tenu du niveau de développement des pays. Cela soulève plusieurs questions centrales pour l'analyse : *Existe-t-il un lien entre le niveau de développement des pays et différentes causes de décès ? Quels pays présentent des profils similaires de mortalité ?* Afin d'y répondre rigoureusement, il est pertinent de réaliser une Analyse Factorielle des Correspondances (AFC) sur les données enregistrées.

2 Analyse factorielle des correspondances des causes de décès par pays

2.1 Préparation des données

URL : <https://www.kaggle.com/datasets/iamsouravbanerjee/cause-of-deaths-around-the-world>

Pour cette analyse, nous avons utilisé un jeu de données disponible sur Kaggle, portant sur les causes de mortalité dans le monde <https://www.kaggle.com/datasets/iamsouravbanerjee/cause-of-deaths-around-the-world>. Le jeu de données original couvre la période 1990 à 2019 et recense les effectifs de décès pour 204 pays et territoires, organisés sous la forme d'un tableau pays × causes de décès.

Afin de concentrer l'étude sur l'année la plus récente, nous avons extrait uniquement les observations de 2019. Une vérification préalable a confirmé l'absence de valeurs manquantes dans les variables retenues. Les données extraites ont ensuite été enregistrées dans un nouveau fichier CSV, distinct du fichier initial.

La variable correspondant à l'année a été supprimée du fait que toutes les lignes concernent 2019. De même, parmi les deux colonnes descriptives des pays (nom complet et abréviation), seule la colonne des abréviations a été conservée, les correspondances avec les noms complets étant stockées dans un fichier séparé.

Pour améliorer la lisibilité et faciliter l'interprétation graphique dans l'Analyse Factorielle des Correspondances (AFC), nous avons procédé à un encodage des différentes causes de décès, chaque cause étant associée à un identifiant plus court. Cet encodage a été enregistré dans un document séparé, qui sera également fourni dans le rapport.

Le jeu de données final comporte ainsi 204 lignes correspondant aux abréviations des pays et territoires, et des colonnes représentant les différentes causes de décès encodées, avec pour

valeurs les effectifs observés. En étant deux variables qualitatives il convient de procéder à une AFC.

Table 1: Encodage des causes de décès

Meningitis	C1
Alzheimer's Disease and Other Dementias	C2
Parkinson's Disease	C3
Nutritional Deficiencies	C4
Malaria	C5
Drowning	C6
Interpersonal Violence	C7
Maternal Disorders	C8
HIV/AIDS	C9
Drug Use Disorders	C10
Tuberculosis	C11
Cardiovascular Diseases	C12
Lower Respiratory Infections	C13
Neonatal Disorders	C14
Alcohol Use Disorders	C15
Self-harm	C16
Exposure to Forces of Nature	C17
Diarrheal Diseases	C18
Environmental Heat and Cold Exposure	C19
Neoplasms	C20
Conflict and Terrorism	C21
Diabetes Mellitus	C22
Chronic Kidney Disease	C23
Poisonings	C24
Protein-Energy Malnutrition	C25
Road Injuries	C26
Chronic Respiratory Diseases	C27
Cirrhosis and Other Chronic Liver Diseases	C28
Digestive Diseases	C29
Fire, Heat, and Hot Substances	C30
Acute Hepatitis	C31

3 Analyse exploratoire

3.1 Chargement des données

La première étape de l'analyse consiste à charger les librairies nécessaires ainsi que le jeu de données à analyser dans le script R qui est le fichier CSV nettoyé. Après l'importation, une première visualisation globale du tableau est réalisée afin de vérifier la structure des données et la cohérence des variables.

Au moment du chargement de données, la première colonne du jeu de données est désigné comme étant la colonne d'identification des lignes et elle est ensuite supprimée, afin de ne conserver que les causes de décès sous forme numérique. Cette étape permet de faciliter les traitements ultérieurs et l'accès direct aux informations par pays.

Le jeu de données obtenu est stocké dans la variable “morts” pour le reste de l'analyse. Une vérification du jeu de données à l'aide de l'affichage des premières lignes confirme la bonne manipulation des données et l'absence d'anomalies apparentes.

3.2

```
# chargement des librairies utiles  
  
library(FactoMineR)  
library(factoextra)
```

Warning: le package 'factoextra' a été compilé avec la version R 4.5.2

Le chargement a nécessité le package : ggplot2

Welcome! Want to learn more? See two factoextra-related books at <https://goo.gl/ve3WBa>

```
library(corrplot)
```

Warning: le package 'corrplot' a été compilé avec la version R 4.5.2

corrplot 0.95 loaded

```
library(ggplot2)
library(psych)
```

Attachement du package : 'psych'

Les objets suivants sont masqués depuis 'package:ggplot2':

%+%, alpha

```
library(skimr)
library(PCDimension)
```

Warning: le package 'PCDimension' a été compilé avec la version R 4.5.2

Le chargement a nécessité le package : ClassDiscovery

Warning: le package 'ClassDiscovery' a été compilé avec la version R 4.5.2

Le chargement a nécessité le package : cluster

Le chargement a nécessité le package : oompaBase

Warning: le package 'oompaBase' a été compilé avec la version R 4.5.2

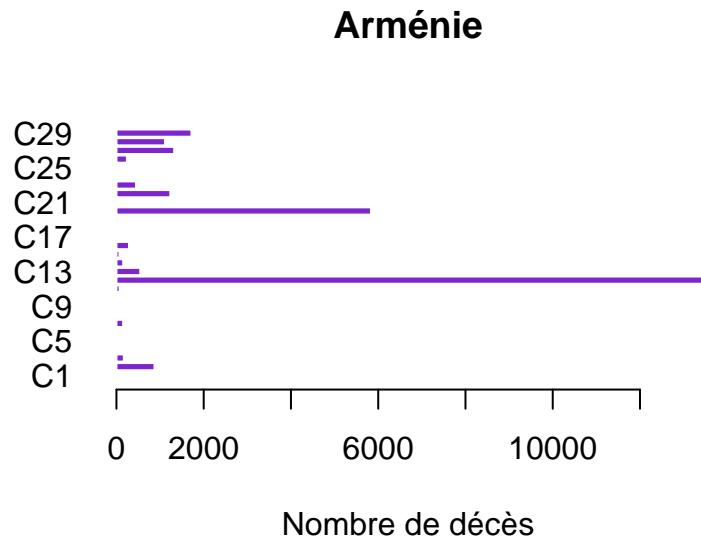
```
morts <- read.csv("cleaned_data.csv", header = TRUE, sep = ",")
rownames(morts) <- morts[,1]
morts <- morts[,-1]
#View(morts)
```

3.3 Visualisation des données par barplots

3.3.1 Arménie :

```
#| fig-cap: "Répartition des causes de décès en Arménie en 2019"

par(mar = c(6,10,4,2))
barplot(
  as.numeric(morts["ARM", ]),
  names.arg = colnames(morts),
  col = "purple3",
  border = "white",
  main = "Arménie",
  horiz = TRUE,
  las = 1,
  xlab = "Nombre de décès"
)
```



3.3.2 Mali :

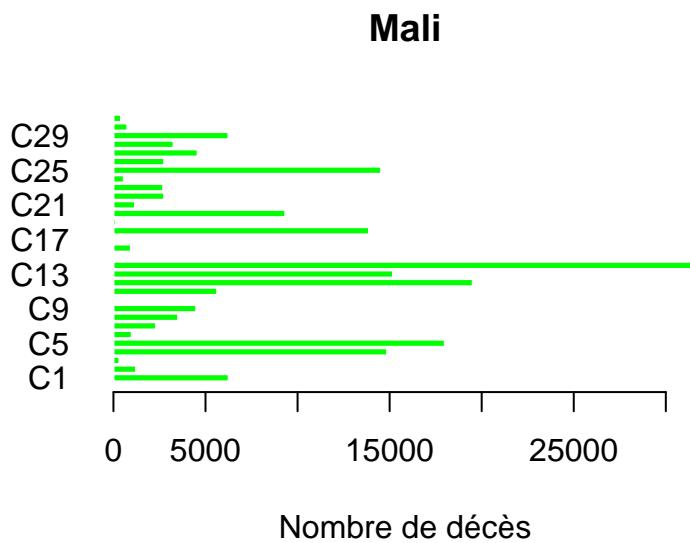
```
#| fig-cap: "Répartition des causes de décès au Mali en 2019"

par(mar = c(6,10,4,2))
barplot(
```

```

as.numeric(morts["MLI", ]),
names.arg = colnames(morts),
col = "green",
border = "white",
main = "Mali",
horiz = TRUE,
las = 1,
xlab = "Nombre de décès"
)

```



3.3.3 France :

```

#| fig-cap: "Répartition des causes de décès en France en 2019"

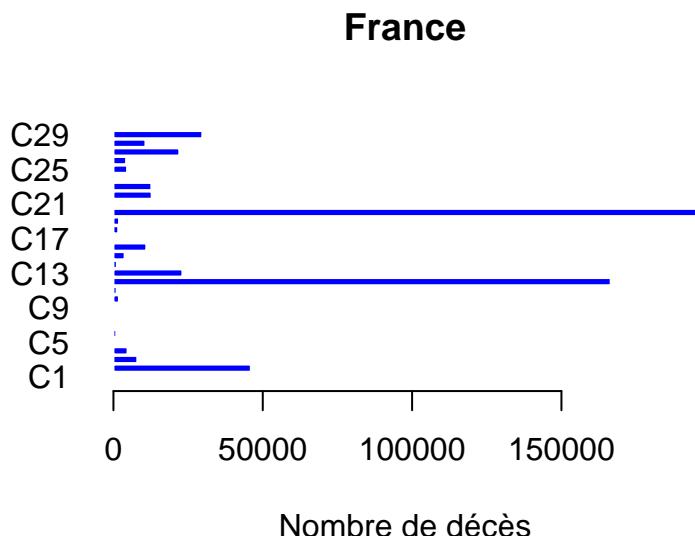
par(mar = c(6,10,4,2))
barplot(
  as.numeric(morts["FRA", ]),
  names.arg = colnames(morts),
  col = "blue",
  border = "white",

```

```

main = "France",
horiz = TRUE,
las = 1,
xlab = "Nombre de décès"
)

```



3.4 Comparaison de pays

Les Figures 1 à 3 présentent des diagrammes en barres horizontales illustrant le nombre de décès par cause respectivement en Arménie, au Mali et en France. Ces représentations graphiques ont pour objectif de comparer la structure de la mortalité selon les principales causes de décès dans chacun des pays étudiés.

Les causes de décès sont représentées sur l'axe des ordonnées, tandis que l'axe des abscisses indique le nombre de morts. Ce choix de visualisation permet une lecture claire et facilite la comparaison entre catégories.

L'analyse met en évidence des profils de mortalité contrastés. En Arménie, en 2019, les maladies cardiovasculaires (C12) sont responsables de plus de 12 000 décès, tandis que le néoplasme (C20) en représente environ 6 000. En France, ces mêmes causes figurent également parmi les principales causes de mortalité, avec plus de 15 000 décès pour le néoplasme et environ 20 000 pour la cause cardiovasculaires. À l'inverse, au Mali, les maladies transmissibles ainsi que certaines maladies infectueuses occupent une place plus importante dans la mortalité totale

: les entraîné environ 32 000 décès, les maladies cardiovasculaires (C12) près de 20 000 décès, et l'automutilation et la malnutrition (C18 et C25) environ 14 000 décès chacune.

Cette analyse descriptive constitue une première étape exploratoire. Elle permet de dégager des tendances générales et justifie la poursuite de l'étude par des analyses comparatives plus approfondies entre pays et groupes de causes de décès.

3.5 Profils ligne et colonne

```
# Tableau profil ligne

morts1 <- data.matrix(morts)

profils_lignes <- morts1 / rowSums(morts1)

profils_lignes <- as.data.frame(profils_lignes)

View(profils_lignes)

rowSums(profils_lignes)
```

	AFG	ALB	DZA	ASM	AND	AGO	ATG	ARG	ARM	AUS	AUT	AZE	BHS	BHR	BGD	BRB	BLR	BEL	BLZ	BEN
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BMU	BTN	BOL	BIH	BWA	BRA	BRN	BGR	BFA	BDI	KHM	CMR	CAN	CPV	CAF	TCD	CHL	CHN	COL	COM	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
COG	COK	CRI	CIV	HRV	CUB	CYP	CZE	COD	DNK	DJI	DMA	DOM	ECU	EGY	SLV	GNQ	ERI	EST	SWZ	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
ETH	FJI	FIN	FRA	GAB	GMB	GEO	DEU	GHA	GRC	GRL	GRD	GUM	GTM	GIN	GNB	GUY	HTI	HND	HUN	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
ISL	IND	IDN	IRN	IRQ	IRL	ISR	ITA	JAM	JPN	JOR	KAZ	KEN	KIR	KWT	KGZ	LAO	LVA	LBN	LSO	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
LBR	LBY	LTU	LUX	MDG	MWI	MYS	MDV	MLI	MLT	MHL	MRT	MUS	MEX	FSM	MDA	MCO	MNG	MNE	MAR	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MOZ	MMR	NAM	NRU	NPL	NLD	NZL	NIC	NER	NGA	NIU	PRK	MKD	MNP	NOR	OMN	PAK	PLW	PSE	PAN	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
PNG	PRY	PER	PHL	POL	PRT	PRI	QAT	ROU	RUS	RWA	KNA	LCA	VCT	WSM	SMR	STP	SAU	SEN	SRB	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
SYC	SLE	SGP	SVK	SVN	SLB	SOM	ZAF	KOR	SSD	ESP	LKA	SDN	SUR	SWE	CHE	SYR	TWN	TJK	TZA	
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

```

THA TLS TGO TKL TON TTO TUN TUR TKM TUV UGA UKR ARE GBR USA VIR URY UZB VUT VEN
  1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1
VNM YEM ZMB ZWE
  1   1   1   1

```

```

# Tableau profil colonne

# Passage en matrice numérique
morts1 <- data.matrix(morts)

# Somme des colonnes
somme_colonnes <- colSums(morts1)

# Profils colonnes
profils_colonnes <- sweep(morts1, 2, somme_colonnes, "/")

# Conversion en data.frame (optionnel)
profils_colonnes <- as.data.frame(profils_colonnes)

# Vérification : chaque colonne doit sommer à 1
colSums(profils_colonnes)

```

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
C21	C22	C23	C24	C25	C26	C27	C28	C29	C30	C31									
1	1	1	1	1	1	1	1	1	1	1									

```
View(profils_colonnes)
```

Afin d'approfondir l'analyse descriptive, des profils lignes et des profils colonnes ont été construits à partir du tableau de contingence des décès par cause et par pays. Le profil ligne d'un pays correspond à la répartition relative des causes de décès à l'intérieur de ce pays : chaque valeur représente la proportion d'une cause donnée parmi l'ensemble des décès du pays considéré. Par exemple, en Afghanistan la meningoite représente 0,7% des causes des décès en 2019 ($0,007 = 1563/(1563+1775+\dots+485 +1940)$). Ainsi, la somme des proportions sur une ligne est égale à 1, ce qui permet de comparer les structures de mortalité indépendamment du niveau absolu de mortalité.

De manière complémentaire, les profils colonnes décrivent, pour chaque cause de décès, la répartition relative des pays. Chaque valeur indique la contribution d'un pays donné au total des décès observés pour une cause spécifique . En 2019, l'Afghanistan représentait 0,66 % ($0,0066= 1563/(1563 +13+\dots+2065+1450)$) de la mortalité mondiale due à la méningoite. Là

encore, la normalisation par colonne permet de comparer les pays entre eux pour une cause donnée, sans être influencé par les différences globales de population ou de mortalité.

3.6 Comparaison des pays, graphiques de profils ligne et colonnes avec ggplot2

```
# Représentation graphique des profils

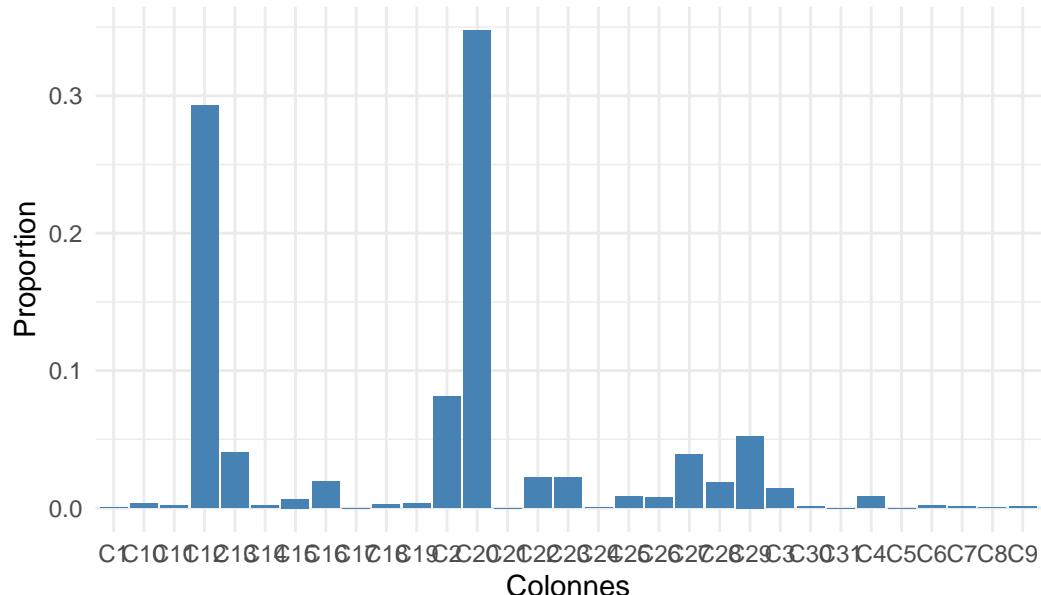
library(ggplot2)

# Extraction du profil ligne de la France
profil_france <- profils_lignes["FRA", , drop = FALSE]

# Transformation en data.frame "long" simple
profil_france_long <- data.frame(
  Variable = colnames(profil_france),
  Profil = as.numeric(profil_france[1, ]),
)

# Diagramme (barplot)
ggplot(profil_france_long, aes(x = Variable, y = Profil)) +
  geom_col(fill = "steelblue") +
  labs(
    title = "Profil ligne de la France (FRA)",
    x = "Colonnes",
    y = "Proportion"
  ) +
  theme_minimal()
```

Profil ligne de la France (FRA)



```

#comparaison de deux profils ligne

library(ggplot2)

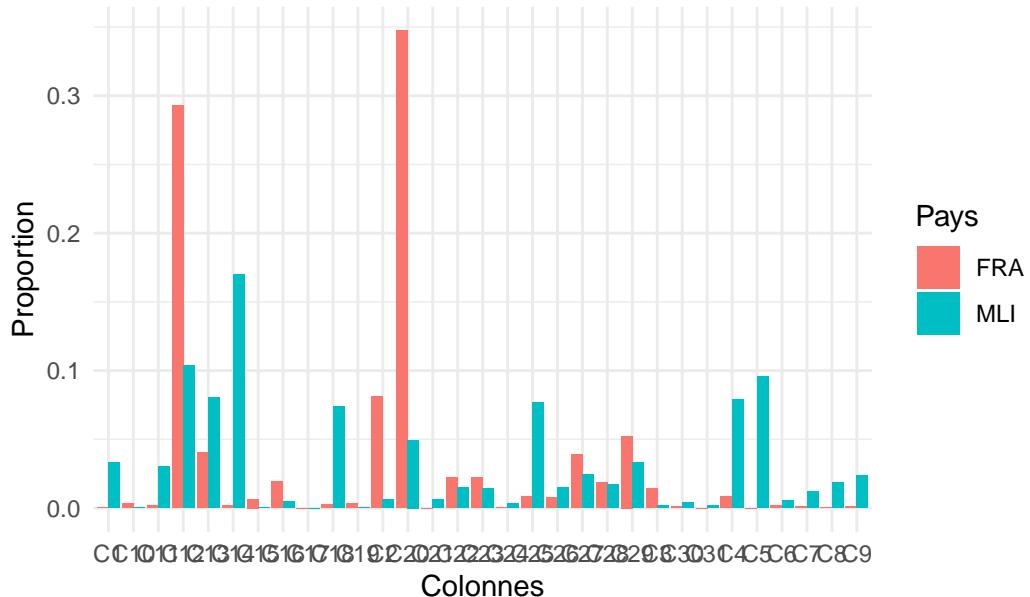
# Sélection des deux profils ligne
profils_deux <- profils_lignes[c("FRA", "MLI"), , drop = FALSE]

# Transformation en data.frame "long" simple
profils_deux_long <- data.frame(
  Pays = rep(rownames(profils_deux), each = ncol(profils_deux)),
  Variable = rep(colnames(profils_deux), times = nrow(profils_deux)),
  Profil = as.numeric(t(profils_deux))
)

# Diagramme comparatif (barplot côté à côté)
ggplot(profils_deux_long, aes(x = Variable, y = Profil, fill = Pays)) +
  geom_col(position = "dodge") +
  labs(
    title = "Comparaison des profils ligne : France vs Mali",
    x = "Colonnes",
    y = "Proportion"
  ) +
  theme_minimal()

```

Comparaison des profils ligne : France vs Mali



Les profils lignes sont ensuite représentés graphiquement afin de faciliter l'interprétation. Le profil ligne de la France met en évidence la prédominance des maladies non infectueuses dans la structure de la mortalité, confirmant les observations issues de l'analyse par diagrammes en barres. Une comparaison des profils lignes de la France et du Mali souligne des contrastes marqués : la France présente une concentration plus forte des décès sur les maladies chroniques, tandis que le Mali affiche une part relativement plus importante de maladies infectueuses et de causes évitables. Ces différences traduisent des stades distincts de transition épidémiologique et fournissent une base pertinente pour des analyses multivariées ultérieures, telles que l'analyse des correspondances.

3.7

4 Analyses avancées (AFC et Tests)

4.1 Test du khi-deux et V de Cramer

```
# Réalisation du test du khi-deux  
  
# H0 : les pays et les causes sont indépendants VS H1 : il y a dépendance  
  
resu.chi2 <- chisq.test(morts[1:204,])
```

```
Warning in chisq.test(morts[1:204, ]): L'approximation du Chi-2 est peut-être incorrecte
```

```
resu.chi2 <- suppressWarnings(chisq.test(morts[1:204, ]))
```

```
names(resu.chi2)
```

```
[1] "statistic" "parameter" "p.value"    "method"      "data.name"   "observed"  
[7] "expected"   "residuals"  "stdres"
```

```
summary(resu.chi2)
```

	Length	Class	Mode
statistic	1	-none-	numeric
parameter	1	-none-	numeric
p.value	1	-none-	numeric
method	1	-none-	character
data.name	1	-none-	character
observed	6324	-none-	numeric
expected	6324	-none-	numeric
residuals	6324	-none-	numeric
stdres	6324	-none-	numeric

```
resu.chi2$statistic
```

X-squared
36396969

```
resu.chi2$p.value
```

```
[1] 0
```

```
# P-value
```

```
# la structure du tableau ne permet pas vraiment de faire un test du ki deux,  
# on peut directement faire une AFC pour explorer les dépendances
```

```

# V Cramer
tot <- sum(morts[1:204,])
sqrt(resu.chi2$statistic/(30*tot))

X-squared
0.1493897

# On obtient 0.1493, liaison faible

# effectifs attendus sous hyp d'indépendance : effectif théorique
resu.chi2$expected

```

	C1	C2	C3	C4	C5
AFG	9.451582e+02	6.495354e+03	1.452071e+03	1.006520e+03	2.575044e+03
ALB	9.656081e+01	6.635891e+02	1.483489e+02	1.028297e+02	2.630759e+02
DZA	8.350524e+02	5.738680e+03	1.282913e+03	8.892655e+02	2.275065e+03
ASM	1.563386e+00	1.074397e+01	2.401871e+00	1.664884e+00	4.259380e+00
AND	2.549188e+00	1.751863e+01	3.916384e+00	2.714686e+00	6.945156e+00
AGO	7.527705e+02	5.173220e+03	1.156501e+03	8.016417e+02	2.050892e+03
ATG	2.510103e+00	1.725003e+01	3.856337e+00	2.673064e+00	6.838672e+00
ARG	1.463729e+03	1.005910e+04	2.248765e+03	1.558757e+03	3.987869e+03
ARM	1.214404e+02	8.345674e+02	1.865720e+02	1.293245e+02	3.308592e+02
AUS	6.987251e+02	4.801807e+03	1.073470e+03	7.440876e+02	1.903647e+03
AUT	3.458949e+02	2.377073e+03	5.314073e+02	3.683510e+02	9.423761e+02
AZE	3.297138e+02	2.265873e+03	5.065479e+02	3.511194e+02	8.982915e+02
BHS	1.112610e+01	7.646122e+01	1.709332e+01	1.184843e+01	3.031259e+01
BHR	1.764021e+01	1.212277e+02	2.710111e+01	1.878544e+01	4.806001e+01
BGD	3.587637e+03	2.465510e+04	5.511780e+03	3.820553e+03	9.774367e+03
BRB	1.238984e+01	8.514593e+01	1.903483e+01	1.319421e+01	3.375559e+01
BLR	5.243728e+02	3.603616e+03	8.056075e+02	5.584160e+02	1.428632e+03
BEL	4.687640e+02	3.221459e+03	7.201743e+02	4.991970e+02	1.277128e+03
BLZ	8.264233e+00	5.679380e+01	1.269656e+01	8.800762e+00	2.251556e+01
BEN	3.584106e+02	2.463084e+03	5.506356e+02	3.816793e+02	9.764748e+02
BMU	2.418906e+00	1.662330e+01	3.716228e+00	2.575946e+00	6.590208e+00
BTN	1.736662e+01	1.193476e+02	2.668078e+01	1.849409e+01	4.731462e+01
BOL	3.179841e+02	2.185263e+03	4.885272e+02	3.386282e+02	8.663343e+02
BIH	1.615933e+02	1.110508e+03	2.482601e+02	1.720843e+02	4.402543e+02
BWA	9.021607e+01	6.199865e+02	1.386013e+02	9.607306e+01	2.457899e+02
BRA	5.814016e+03	3.995532e+04	8.932225e+03	6.191473e+03	1.584004e+04
BRN	7.673621e+00	5.273497e+01	1.178918e+01	8.171806e+00	2.090646e+01
BGR	5.420390e+02	3.725023e+03	8.327487e+02	5.772292e+02	1.476763e+03

BFA	7.598274e+02	5.221717e+03	1.167343e+03	8.091568e+02	2.070118e+03
BDI	3.492040e+02	2.399814e+03	5.364912e+02	3.718750e+02	9.513918e+02
KHM	4.855617e+02	3.336897e+03	7.459811e+02	5.170852e+02	1.322893e+03
CMR	8.306401e+02	5.708359e+03	1.276134e+03	8.845668e+02	2.263044e+03
CAN	1.189680e+03	8.175770e+03	1.827737e+03	1.266917e+03	3.241235e+03
CPV	1.488691e+01	1.023064e+02	2.287115e+01	1.585340e+01	4.055877e+01
CAF	2.778354e+02	1.909352e+03	4.268458e+02	2.958730e+02	7.569511e+02
TCD	6.134206e+02	4.215574e+03	9.424141e+02	6.532450e+02	1.671239e+03
CHL	4.829083e+02	3.318662e+03	7.419046e+02	5.142596e+02	1.315663e+03
CHN	4.534932e+04	3.116514e+05	6.967135e+04	4.829348e+04	1.235523e+05
COL	1.025590e+03	7.048101e+03	1.575641e+03	1.092173e+03	2.794177e+03
COM	2.114046e+01	1.452823e+02	3.247863e+01	2.251293e+01	5.759629e+01
COG	1.499678e+02	1.030615e+03	2.303995e+02	1.597040e+02	4.085811e+02
COK	7.165520e-01	4.924318e+00	1.100858e+00	7.630719e-01	1.952216e+00
CRI	1.029229e+02	7.073111e+02	1.581232e+02	1.096049e+02	2.804092e+02
CIV	7.381528e+02	5.072764e+03	1.134043e+03	7.860750e+02	2.011066e+03
HRV	2.218445e+02	1.524569e+03	3.408255e+02	2.362471e+02	6.044061e+02
CUB	4.401497e+02	3.024814e+03	6.762134e+02	4.687250e+02	1.199169e+03
CYP	3.571035e+01	2.454101e+02	5.486274e+01	3.802873e+01	9.729135e+01
CZE	4.849146e+02	3.332450e+03	7.449870e+02	5.163962e+02	1.321130e+03
COD	2.262841e+03	1.555079e+04	3.476461e+03	2.409749e+03	6.165015e+03
DNK	2.311163e+02	1.588286e+03	3.550699e+02	2.461207e+02	6.296666e+02
DJI	3.136326e+01	2.155359e+02	4.818420e+01	3.339942e+01	8.544790e+01
DMA	3.035575e+00	2.086120e+01	4.663633e+00	3.232650e+00	8.270297e+00
DOM	3.018074e+02	2.074093e+03	4.636745e+02	3.214012e+02	8.222616e+02
ECU	3.919540e+02	2.693602e+03	6.021691e+02	4.174003e+02	1.067862e+03
EGY	2.628200e+03	1.806162e+04	4.037772e+03	2.798827e+03	7.160421e+03
SLV	1.734794e+02	1.192192e+03	2.665209e+02	1.847420e+02	4.726374e+02
GNQ	3.117653e+01	2.142526e+02	4.789731e+01	3.320056e+01	8.493915e+01
ERI	1.848791e+02	1.270534e+03	2.840346e+02	1.968818e+02	5.036954e+02
EST	6.826786e+01	4.691532e+02	1.048817e+02	7.269994e+01	1.859929e+02
SWZ	4.899913e+01	3.367338e+02	7.527864e+01	5.218024e+01	1.334961e+02
ETH	2.306442e+03	1.585042e+04	3.543447e+03	2.456180e+03	6.283805e+03
FJI	3.108533e+01	2.136259e+02	4.775720e+01	3.310345e+01	8.469068e+01
FIN	2.353504e+02	1.617385e+03	3.615750e+02	2.506298e+02	6.412024e+02
FRA	2.466316e+03	1.694911e+04	3.789065e+03	2.626433e+03	6.719374e+03
GAB	4.968094e+01	3.414194e+02	7.632612e+01	5.290632e+01	1.353536e+02
GMB	5.458824e+01	3.751435e+02	8.386533e+01	5.813220e+01	1.487234e+02
GEO	2.163683e+02	1.486935e+03	3.324123e+02	2.304153e+02	5.894864e+02
DEU	4.046230e+03	2.780667e+04	6.216329e+03	4.308919e+03	1.102379e+04
GHA	8.635711e+02	5.934668e+03	1.326727e+03	9.196357e+02	2.352763e+03
GRC	5.496909e+02	3.777608e+03	8.445045e+02	5.853779e+02	1.497610e+03
GRL	1.975946e+00	1.357918e+01	3.035698e+00	2.104228e+00	5.383384e+00

GRD	3.365623e+00	2.312937e+01	5.170694e+00	3.584125e+00	9.169500e+00
GUM	4.811755e+00	3.306754e+01	7.392425e+00	5.124143e+00	1.310943e+01
GTM	4.086778e+02	2.808532e+03	6.278624e+02	4.352099e+02	1.113426e+03
GIN	4.450613e+02	3.058568e+03	6.837593e+02	4.739555e+02	1.212551e+03
GNB	5.774975e+01	3.968702e+02	8.872245e+01	6.149897e+01	1.573368e+02
GUY	2.834072e+01	1.947642e+02	4.354058e+01	3.018065e+01	7.721310e+01
HTI	3.980208e+02	2.735294e+03	6.114897e+02	4.238610e+02	1.084391e+03
HND	2.240246e+02	1.539551e+03	3.441748e+02	2.385686e+02	6.103456e+02
HUN	5.552800e+02	3.816018e+03	8.530912e+02	5.913298e+02	1.512837e+03
ISL	8.733249e+00	6.001699e+01	1.341712e+01	9.300227e+00	2.379337e+01
IND	3.827146e+04	2.630107e+05	5.879745e+04	4.075612e+04	1.042690e+05
IDN	7.439734e+03	5.112764e+04	1.142986e+04	7.922735e+03	2.026924e+04
IRN	1.633217e+03	1.122386e+04	2.509155e+03	1.739249e+03	4.449633e+03
IRQ	7.179156e+02	4.933689e+03	1.102952e+03	7.645240e+02	1.955931e+03
IRL	1.347595e+02	9.261000e+02	2.070346e+02	1.435084e+02	3.671468e+02
ISR	1.945851e+02	1.337236e+03	2.989462e+02	2.072179e+02	5.301391e+02
ITA	2.712349e+03	1.863992e+04	4.167053e+03	2.888440e+03	7.389682e+03
JAM	8.116146e+01	5.577611e+02	1.246905e+02	8.643061e+01	2.211210e+02
JPN	5.948567e+03	4.087998e+04	9.138939e+03	6.334759e+03	1.620662e+04
JOR	1.308381e+02	8.991506e+02	2.010099e+02	1.393323e+02	3.564628e+02
KAZ	6.092777e+02	4.187103e+03	9.360492e+02	6.488331e+02	1.659952e+03
KEN	1.251478e+03	8.600455e+03	1.922678e+03	1.332726e+03	3.409599e+03
KIR	4.881239e+00	3.354505e+01	7.499175e+00	5.198138e+00	1.329873e+01
KWT	4.130814e+01	2.838795e+02	6.346277e+01	4.398994e+01	1.125423e+02
KGZ	1.527428e+02	1.049685e+03	2.346628e+02	1.626592e+02	4.161415e+02
LAO	1.844709e+02	1.267728e+03	2.834074e+02	1.964471e+02	5.025832e+02
LVA	1.170108e+02	8.041262e+02	1.797667e+02	1.246073e+02	3.187910e+02
LBN	1.430976e+02	9.834012e+02	2.198446e+02	1.523878e+02	3.898635e+02
LSO	1.388895e+02	9.544820e+02	2.133795e+02	1.479065e+02	3.783986e+02
LBR	1.210886e+02	8.321500e+02	1.860316e+02	1.289499e+02	3.299008e+02
LBY	1.326186e+02	9.113868e+02	2.037454e+02	1.412284e+02	3.613138e+02
LTU	1.652760e+02	1.135816e+03	2.539178e+02	1.760060e+02	4.502875e+02
LUX	1.728410e+01	1.187805e+02	2.655402e+01	1.840622e+01	4.708982e+01
MDG	6.816451e+02	4.684429e+03	1.047229e+03	7.258987e+02	1.857114e+03
MWI	4.870513e+02	3.347133e+03	7.482695e+02	5.186715e+02	1.326951e+03
MYS	7.284207e+02	5.005882e+03	1.119092e+03	7.757111e+02	1.984552e+03
MDV	5.966924e+00	4.100614e+01	9.167141e+00	6.354308e+00	1.625664e+01
MLI	8.186151e+02	5.625720e+03	1.257660e+03	8.717611e+02	2.230283e+03
MLT	1.559043e+01	1.071412e+02	2.395199e+01	1.660259e+01	4.247549e+01
MHL	1.771838e+00	1.217649e+01	2.722120e+00	1.886869e+00	4.827298e+00
MRT	8.766688e+01	6.024679e+02	1.346849e+02	9.335837e+01	2.388448e+02
MUS	4.598093e+01	3.159920e+02	7.064169e+01	4.896609e+01	1.252731e+02
MEX	3.202345e+03	2.200728e+04	4.919846e+03	3.410247e+03	8.724655e+03

FSM	3.986635e+00	2.739711e+01	6.124771e+00	4.245454e+00	1.086142e+01
MDA	1.844926e+02	1.267878e+03	2.834408e+02	1.964702e+02	5.026424e+02
MCO	2.227825e+00	1.531015e+01	3.422666e+00	2.372460e+00	6.069617e+00
MNG	1.097497e+02	7.542264e+02	1.686113e+02	1.168749e+02	2.990085e+02
MNE	2.919189e+01	2.006137e+02	4.484827e+01	3.108709e+01	7.953210e+01
MAR	9.626030e+02	6.615239e+03	1.478872e+03	1.025097e+03	2.622572e+03
MOZ	1.080517e+03	7.425573e+03	1.660026e+03	1.150666e+03	2.943823e+03
MMR	1.765102e+03	1.213021e+04	2.711772e+03	1.879696e+03	4.808947e+03
NAM	8.048399e+01	5.531053e+02	1.236497e+02	8.570916e+01	2.192753e+02
NRU	2.735926e-01	1.880194e+00	4.203274e-01	2.913547e-01	7.453916e-01
NPL	8.094128e+02	5.562479e+03	1.243522e+03	8.619614e+02	2.205211e+03
NLD	6.401502e+02	4.399266e+03	9.834794e+02	6.817099e+02	1.744062e+03
NZL	1.417991e+02	9.744777e+02	2.178497e+02	1.510050e+02	3.863258e+02
NIC	1.267385e+02	8.709775e+02	1.947117e+02	1.349666e+02	3.452938e+02
NER	7.552675e+02	5.190380e+03	1.160337e+03	8.043009e+02	2.057695e+03
NGA	6.251374e+03	4.296094e+04	9.604148e+03	6.657224e+03	1.703161e+04
NIU	7.816931e-02	5.371983e-01	1.200935e-01	8.324420e-02	2.129690e-01
PRK	1.016092e+03	6.982832e+03	1.561049e+03	1.082059e+03	2.768302e+03
MKD	1.038957e+02	7.139962e+02	1.596177e+02	1.106408e+02	2.830595e+02
MNP	1.493902e+00	1.026646e+01	2.295121e+00	1.590889e+00	4.070075e+00
NOR	1.679033e+02	1.153872e+03	2.579543e+02	1.788039e+02	4.574456e+02
OMN	5.106627e+01	3.509397e+02	7.845445e+01	5.438159e+01	1.391279e+02
PAK	6.131488e+03	4.213706e+04	9.419965e+03	6.529555e+03	1.670498e+04
PLW	8.772334e-01	6.028559e+00	1.347716e+00	9.341850e-01	2.389986e+00
PSE	6.860660e+01	4.714810e+02	1.054021e+02	7.306066e+01	1.869158e+02
PAN	8.348482e+01	5.737278e+02	1.282599e+02	8.890481e+01	2.274509e+02
PNG	2.747825e+02	1.888371e+03	4.221555e+02	2.926219e+02	7.486334e+02
PRY	1.414995e+02	9.724184e+02	2.173893e+02	1.506859e+02	3.855094e+02
PER	6.468988e+02	4.445644e+03	9.938475e+02	6.888967e+02	1.762449e+03
PHL	2.648003e+03	1.819771e+04	4.068196e+03	2.819916e+03	7.214373e+03
POL	1.741204e+03	1.196597e+04	2.675057e+03	1.854246e+03	4.743838e+03
PRT	4.885799e+02	3.357639e+03	7.506180e+02	5.202994e+02	1.331116e+03
PRI	1.374130e+02	9.443349e+02	2.111111e+02	1.463341e+02	3.743759e+02
QAT	1.793986e+01	1.232870e+02	2.756147e+01	1.910454e+01	4.887639e+01
ROU	1.163572e+03	7.996346e+03	1.787626e+03	1.239113e+03	3.170103e+03
RUS	7.718017e+03	5.304006e+04	1.185739e+04	8.219084e+03	2.102741e+04
RWA	2.889007e+02	1.985395e+03	4.438457e+02	3.076567e+02	7.870980e+02
KNA	2.097543e+00	1.441482e+01	3.222510e+00	2.233719e+00	5.714669e+00
LCA	5.849670e+00	4.020034e+01	8.987001e+00	6.229441e+00	1.593718e+01
VCT	4.260227e+00	2.927731e+01	6.545098e+00	4.536809e+00	1.160681e+01
WSM	5.758473e+00	3.957361e+01	8.846891e+00	6.132323e+00	1.568872e+01
SMR	1.289794e+00	8.863772e+00	1.981544e+00	1.373529e+00	3.513989e+00
STP	4.182058e+00	2.874011e+01	6.425005e+00	4.453565e+00	1.139384e+01

SAU	5.109798e+02	3.511576e+03	7.850315e+02	5.441535e+02	1.392143e+03
SEN	3.628750e+02	2.493764e+03	5.574943e+02	3.864335e+02	9.886377e+02
SRB	5.063200e+02	3.479553e+03	7.778726e+02	5.391912e+02	1.379448e+03
SYC	3.404708e+00	2.339797e+01	5.230741e+00	3.625748e+00	9.275984e+00
SLE	2.779527e+02	1.910158e+03	4.270260e+02	2.959979e+02	7.572705e+02
SGP	9.736422e+01	6.691103e+02	1.495832e+02	1.036853e+02	2.652648e+02
SVK	2.358064e+02	1.620518e+03	3.622755e+02	2.511154e+02	6.424447e+02
SVN	8.780585e+01	6.034229e+02	1.348984e+02	9.350636e+01	2.392234e+02
SLB	2.529646e+01	1.738433e+02	3.886361e+01	2.693875e+01	6.891914e+01
SOM	7.180589e+02	4.934674e+03	1.103173e+03	7.646766e+02	1.956322e+03
ZAF	2.194773e+03	1.508301e+04	3.371887e+03	2.337261e+03	5.979567e+03
KOR	1.363837e+03	9.372618e+03	2.095299e+03	1.452380e+03	3.715718e+03
SSD	2.947765e+02	2.025775e+03	4.528728e+02	3.139139e+02	8.031062e+02
ESP	1.789148e+03	1.229545e+04	2.748714e+03	1.905303e+03	4.874459e+03
LKA	5.715306e+02	3.927695e+03	8.780573e+02	6.086354e+02	1.557111e+03
SDN	7.958114e+02	5.469007e+03	1.222626e+03	8.474769e+02	2.168155e+03
SUR	1.799631e+01	1.236750e+02	2.764820e+01	1.916467e+01	4.903020e+01
SWE	3.880933e+02	2.667070e+03	5.962378e+02	4.132890e+02	1.057344e+03
CHE	2.859303e+02	1.964982e+03	4.392822e+02	3.044934e+02	7.790052e+02
SYR	3.599914e+02	2.473947e+03	5.530642e+02	3.833627e+02	9.807815e+02
TWN	7.930798e+02	5.450235e+03	1.218429e+03	8.445679e+02	2.160713e+03
TJK	2.035355e+02	1.398745e+03	3.126969e+02	2.167494e+02	5.545240e+02
TZA	1.423932e+03	9.785604e+03	2.187624e+03	1.516376e+03	3.879444e+03
THA	2.105499e+03	1.446950e+04	3.234733e+03	2.242192e+03	5.736344e+03
TLS	3.244895e+01	2.229970e+02	4.985217e+01	3.455559e+01	8.840581e+01
TGO	2.182357e+02	1.499768e+03	3.352812e+02	2.324039e+02	5.945740e+02
TKL	3.908466e-02	2.685991e-01	6.004677e-02	4.162210e-02	1.064845e-01
TON	2.783696e+00	1.913023e+01	4.276665e+00	2.964419e+00	7.584064e+00
TTO	4.905559e+01	3.371218e+02	7.536537e+01	5.224036e+01	1.336499e+02
TUN	2.857392e+02	1.963669e+03	4.389886e+02	3.042899e+02	7.784846e+02
TUR	1.906102e+03	1.309919e+04	2.928394e+03	2.029850e+03	5.193096e+03
TKM	1.497159e+02	1.028884e+03	2.300125e+02	1.594358e+02	4.078948e+02
TUV	4.516449e-01	3.103812e+00	6.938738e-01	4.809665e-01	1.230488e+00
UGA	9.671541e+02	6.646516e+03	1.485864e+03	1.029944e+03	2.634971e+03
UKR	3.054831e+03	2.099353e+04	4.693216e+03	3.253156e+03	8.322758e+03
ARE	1.178923e+02	8.101846e+02	1.811211e+02	1.255461e+02	3.211928e+02
GBR	2.578441e+03	1.771966e+04	3.961326e+03	2.745838e+03	7.024854e+03
USA	1.231151e+04	8.460766e+04	1.891449e+04	1.311080e+04	3.354220e+04
VIR	5.411053e+00	3.718606e+01	8.313142e+00	5.762349e+00	1.474219e+01
URY	1.394844e+02	9.585707e+02	2.142936e+02	1.485400e+02	3.800196e+02
UZB	9.037371e+02	6.210699e+03	1.388435e+03	9.624094e+02	2.462194e+03
VUT	9.349918e+00	6.425489e+01	1.436452e+01	9.956932e+00	2.547346e+01
VEN	7.874472e+02	5.411527e+03	1.209776e+03	8.385697e+02	2.145367e+03

VNM	2.689276e+03	1.848135e+04	4.131605e+03	2.863869e+03	7.326821e+03
YEM	7.013264e+02	4.819683e+03	1.077466e+03	7.468577e+02	1.910734e+03
ZMB	5.211331e+02	3.581352e+03	8.006303e+02	5.549660e+02	1.419805e+03
ZWE	5.365020e+02	3.686971e+03	8.242421e+02	5.713327e+02	1.461677e+03
	C6	C7	C8	C9	C10
AFG	9.491016e+02	1.658070e+03	7.859076e+02	3.455230e+03	5.126379e+02
ALB	9.696369e+01	1.693945e+02	8.029120e+01	3.529989e+02	5.237296e+01
DZA	8.385364e+02	1.464914e+03	6.943536e+02	3.052714e+03	4.529184e+02
ASM	1.569909e+00	2.742614e+00	1.299970e+00	5.715296e+00	8.479545e-01
AND	2.559824e+00	4.471985e+00	2.119673e+00	9.319107e+00	1.382637e+00
AGO	7.559112e+02	1.320569e+03	6.259355e+02	2.751915e+03	4.082901e+02
ATG	2.520576e+00	4.403420e+00	2.087174e+00	9.176225e+00	1.361438e+00
ARG	1.469836e+03	2.567788e+03	1.217104e+03	5.350977e+03	7.939021e+02
ARM	1.219470e+02	2.130402e+02	1.009788e+02	4.439515e+02	6.586722e+01
AUS	7.016403e+02	1.225758e+03	5.809963e+02	2.554340e+03	3.789768e+02
AUT	3.473380e+02	6.067958e+02	2.876147e+02	1.264493e+03	1.876076e+02
AZE	3.310895e+02	5.784097e+02	2.741600e+02	1.205340e+03	1.788312e+02
BHS	1.117252e+01	1.951827e+01	9.251452e+00	4.067385e+01	6.034609e+00
BHR	1.771381e+01	3.094583e+01	1.466799e+01	6.448759e+01	9.567753e+00
BGD	3.602605e+03	6.293713e+03	2.983153e+03	1.311538e+04	1.945874e+03
BRB	1.244153e+01	2.173522e+01	1.030226e+01	4.529372e+01	6.720039e+00
BLR	5.265606e+02	9.198957e+02	4.360207e+02	1.916958e+03	2.844110e+02
BEL	4.707198e+02	8.223424e+02	3.897815e+02	1.713668e+03	2.542497e+02
BLZ	8.298714e+00	1.449776e+01	6.871785e+00	3.021169e+01	4.482381e+00
BEN	3.599060e+02	6.287519e+02	2.980217e+02	1.310247e+03	1.943959e+02
BMU	2.428998e+00	4.243434e+00	2.011342e+00	8.842832e+00	1.311974e+00
BTN	1.743907e+01	3.046587e+01	1.444050e+01	6.348741e+01	9.419361e+00
BOL	3.193108e+02	5.578325e+02	2.644067e+02	1.162459e+03	1.724692e+02
BIH	1.622675e+02	2.834797e+02	1.343663e+02	5.907393e+02	8.764551e+01
BWA	9.059247e+01	1.582641e+02	7.501549e+01	3.298043e+02	4.893168e+01
BRA	5.838274e+03	1.019940e+04	4.834408e+03	2.125439e+04	3.153425e+03
BRN	7.705637e+00	1.346167e+01	6.380686e+00	2.805258e+01	4.162043e+00
BGR	5.443005e+02	9.508872e+02	4.507104e+02	1.981541e+03	2.939929e+02
BFA	7.629976e+02	1.332949e+03	6.318034e+02	2.777713e+03	4.121176e+02
BDI	3.506610e+02	6.126010e+02	2.903663e+02	1.276591e+03	1.894024e+02
KHM	4.875876e+02	8.518103e+02	4.037490e+02	1.775076e+03	2.633605e+02
CMR	8.341058e+02	1.457174e+03	6.906848e+02	3.036584e+03	4.505253e+02
CAN	1.194644e+03	2.087030e+03	9.892302e+02	4.349134e+03	6.452627e+02
CPV	1.494902e+01	2.611578e+01	1.237860e+01	5.442232e+01	8.074411e+00
CAF	2.789946e+02	4.874006e+02	2.310227e+02	1.015687e+03	1.506933e+02
TCD	6.159800e+02	1.076110e+03	5.100649e+02	2.242492e+03	3.327091e+02
CHL	4.849231e+02	8.471555e+02	4.015426e+02	1.765375e+03	2.619214e+02
CHN	4.553853e+04	7.955532e+04	3.770838e+04	1.657842e+05	2.459671e+04

COL	1.029869e+03	1.799170e+03	8.527875e+02	3.749266e+03	5.562628e+02
COM	2.122866e+01	3.708624e+01	1.757848e+01	7.728350e+01	1.146623e+01
COG	1.505935e+02	2.630853e+02	1.246996e+02	5.482397e+02	8.134003e+01
COK	7.195416e-01	1.257032e+00	5.958195e-01	2.619511e+00	3.886458e-01
CRI	1.033523e+02	1.805554e+02	8.558135e+01	3.762570e+02	5.582367e+01
CIV	7.412326e+02	1.294925e+03	6.137808e+02	2.698477e+03	4.003617e+02
HRV	2.227701e+02	3.891770e+02	1.844657e+02	8.110005e+02	1.203247e+02
CUB	4.419861e+02	7.721450e+02	3.659885e+02	1.609062e+03	2.387298e+02
CYP	3.585934e+01	6.264588e+01	2.969348e+01	1.305469e+02	1.936869e+01
CZE	4.869378e+02	8.506751e+02	4.032109e+02	1.772710e+03	2.630096e+02
COD	2.272282e+03	3.969652e+03	1.881573e+03	8.272303e+03	1.227327e+03
DNK	2.320805e+02	4.054422e+02	1.921753e+02	8.448953e+02	1.253536e+02
DJI	3.149412e+01	5.501989e+01	2.607884e+01	1.146552e+02	1.701091e+01
DMA	3.048240e+00	5.325243e+00	2.524108e+00	1.109720e+01	1.646445e+00
DOM	3.030666e+02	5.294541e+02	2.509556e+02	1.103322e+03	1.636953e+02
ECU	3.935893e+02	6.875963e+02	3.259133e+02	1.432872e+03	2.125892e+02
EGY	2.639165e+03	4.610594e+03	2.185372e+03	9.607952e+03	1.425492e+03
SLV	1.742032e+02	3.043311e+02	1.442497e+02	6.341914e+02	9.409232e+01
GNQ	3.130660e+01	5.469230e+01	2.592357e+01	1.139725e+02	1.690963e+01
ERI	1.856505e+02	3.243294e+02	1.537287e+02	6.758655e+02	1.002753e+02
EST	6.855270e+01	1.197608e+02	5.676535e+01	2.495679e+02	3.702734e+01
SWZ	4.920357e+01	8.595810e+01	4.074322e+01	1.791269e+02	2.657631e+01
ETH	2.316065e+03	4.046141e+03	1.917828e+03	8.431696e+03	1.250975e+03
FJI	3.121502e+01	5.453231e+01	2.584773e+01	1.136391e+02	1.686016e+01
FIN	2.363324e+02	4.128701e+02	1.956960e+02	8.603743e+02	1.276501e+02
FRA	2.476606e+03	4.326604e+03	2.050764e+03	9.016149e+03	1.337688e+03
GAB	4.988822e+01	8.715419e+01	4.131015e+01	1.816194e+02	2.694611e+01
GMB	5.481599e+01	9.576295e+01	4.539062e+01	1.995591e+02	2.960774e+01
GEO	2.172711e+02	3.795702e+02	1.799122e+02	7.909810e+02	1.173545e+02
DEU	4.063112e+03	7.098213e+03	3.364477e+03	1.479187e+04	2.194607e+03
GHA	8.671741e+02	1.514944e+03	7.180673e+02	3.156971e+03	4.683865e+02
GRC	5.519844e+02	9.643108e+02	4.570730e+02	2.009514e+03	2.981431e+02
GRL	1.984191e+00	3.466360e+00	1.643018e+00	7.223499e+00	1.071720e+00
GRD	3.379665e+00	5.904239e+00	2.798546e+00	1.230376e+01	1.825457e+00
GUM	4.831831e+00	8.441157e+00	4.001018e+00	1.759041e+01	2.609815e+00
GTM	4.103829e+02	7.169346e+02	3.398194e+02	1.494010e+03	2.216600e+02
GIN	4.469182e+02	7.807613e+02	3.700725e+02	1.627018e+03	2.413938e+02
GNB	5.799070e+01	1.013091e+02	4.801944e+01	2.111167e+02	3.132250e+01
GUY	2.845896e+01	4.971750e+01	2.356557e+01	1.036056e+02	1.537153e+01
HTI	3.996814e+02	6.982391e+02	3.309579e+02	1.455051e+03	2.158798e+02
HND	2.249592e+02	3.930014e+02	1.862785e+02	8.189701e+02	1.215072e+02
HUN	5.575968e+02	9.741156e+02	4.617204e+02	2.029946e+03	3.011746e+02
ISL	8.769686e+00	1.532055e+01	7.261776e+00	3.192628e+01	4.736768e+00

IND	3.843114e+04	6.713879e+04	3.182307e+04	1.399096e+05	2.075780e+04
IDN	7.470774e+03	1.305136e+04	6.186207e+03	2.719755e+04	4.035187e+03
IRN	1.640032e+03	2.865118e+03	1.358035e+03	5.970579e+03	8.858298e+02
IRQ	7.209110e+02	1.259424e+03	5.969534e+02	2.624496e+03	3.893854e+02
IRL	1.353218e+02	2.364057e+02	1.120538e+02	4.926426e+02	7.309132e+01
ISR	1.953970e+02	3.413564e+02	1.617993e+02	7.113479e+02	1.055397e+02
ITA	2.723666e+03	4.758215e+03	2.255343e+03	9.915578e+03	1.471133e+03
JAM	8.150008e+01	1.423798e+02	6.748649e+01	2.967032e+02	4.402061e+01
JPN	5.973386e+03	1.043544e+04	4.946288e+03	2.174627e+04	3.226403e+03
JOR	1.313839e+02	2.295263e+02	1.087930e+02	4.783067e+02	7.096437e+01
KAZ	6.118197e+02	1.068842e+03	5.066199e+02	2.227346e+03	3.304620e+02
KEN	1.256699e+03	2.195440e+03	1.040615e+03	4.575047e+03	6.787805e+02
KIR	4.901605e+00	8.563051e+00	4.058795e+00	1.784442e+01	2.647502e+00
KWT	4.148049e+01	7.246596e+01	3.434809e+01	1.510108e+02	2.240484e+01
KGZ	1.533801e+02	2.679534e+02	1.270071e+02	5.583844e+02	8.284515e+01
LAO	1.852405e+02	3.236132e+02	1.533892e+02	6.743731e+02	1.000539e+02
LVA	1.174990e+02	2.052694e+02	9.729553e+01	4.277581e+02	6.346468e+01
LBN	1.436946e+02	2.510330e+02	1.189870e+02	5.231242e+02	7.761374e+01
LSO	1.394690e+02	2.436508e+02	1.154879e+02	5.077405e+02	7.533133e+01
LBR	1.215938e+02	2.124231e+02	1.006863e+02	4.426655e+02	6.567643e+01
LBY	1.331719e+02	2.326499e+02	1.102736e+02	4.848158e+02	7.193009e+01
LTU	1.659656e+02	2.899400e+02	1.374285e+02	6.042020e+02	8.964292e+01
LUX	1.735622e+01	3.032112e+01	1.437189e+01	6.318577e+01	9.374608e+00
MDG	6.844891e+02	1.195795e+03	5.667941e+02	2.491901e+03	3.697129e+02
MWI	4.890834e+02	8.544234e+02	4.049876e+02	1.780521e+03	2.641684e+02
MYS	7.314599e+02	1.277853e+03	6.056885e+02	2.662899e+03	3.950832e+02
MDV	5.991820e+00	1.046764e+01	4.961552e+00	2.181338e+01	3.236359e+00
MLI	8.220305e+02	1.436079e+03	6.806859e+02	2.992624e+03	4.440031e+02
MLT	1.565548e+01	2.734996e+01	1.296359e+01	5.699420e+01	8.455990e+00
MHL	1.779230e+00	3.108296e+00	1.473299e+00	6.477335e+00	9.610150e-01
MRT	8.803265e+01	1.537921e+02	7.289581e+01	3.204852e+02	4.754905e+01
MUS	4.617277e+01	8.066333e+01	3.823356e+01	1.680932e+02	2.493928e+01
MEX	3.215706e+03	5.617803e+03	2.662779e+03	1.170686e+04	1.736898e+03
FSM	4.003268e+00	6.993666e+00	3.314923e+00	1.457400e+01	2.162284e+00
MDA	1.852624e+02	3.236513e+02	1.534073e+02	6.744525e+02	1.000657e+02
MCO	2.237120e+00	3.908225e+00	1.852457e+00	8.144296e+00	1.208335e+00
MNG	1.102076e+02	1.925315e+02	9.125789e+01	4.012138e+02	5.952640e+01
MNE	2.931369e+01	5.121070e+01	2.427333e+01	1.067173e+02	1.583319e+01
MAR	9.666192e+02	1.688673e+03	8.004131e+02	3.519003e+03	5.220997e+02
MOZ	1.085025e+03	1.895527e+03	8.984598e+02	3.950063e+03	5.860543e+02
MMR	1.772467e+03	3.096480e+03	1.467699e+03	6.452712e+03	9.573618e+02
NAM	8.081979e+01	1.411913e+02	6.692317e+01	2.942266e+02	4.365317e+01
NRU	2.747341e-01	4.799575e-01	2.274947e-01	1.000177e+00	1.483920e-01

NPL	8.127899e+02	1.419935e+03	6.730341e+02	2.958983e+03	4.390119e+02
NLD	6.428211e+02	1.123002e+03	5.322907e+02	2.340207e+03	3.472067e+02
NZL	1.423908e+02	2.487551e+02	1.179073e+02	5.183773e+02	7.690947e+01
NIC	1.272673e+02	2.223346e+02	1.053842e+02	4.633200e+02	6.874084e+01
NER	7.584187e+02	1.324949e+03	6.280119e+02	2.761043e+03	4.096444e+02
NGA	6.277456e+03	1.096665e+04	5.198074e+03	2.285324e+04	3.390640e+03
NIU	7.849545e-02	1.371307e-01	6.499850e-02	2.857648e-01	4.239772e-02
PRK	1.020332e+03	1.782509e+03	8.448902e+02	3.714545e+03	5.511115e+02
MKD	1.043292e+02	1.822620e+02	8.639022e+01	3.798131e+02	5.635128e+01
MNP	1.500135e+00	2.620720e+00	1.242193e+00	5.461283e+00	8.102676e-01
NOR	1.686039e+02	2.945492e+02	1.396132e+02	6.138069e+02	9.106795e+01
OMN	5.127933e+01	8.958445e+01	4.246207e+01	1.866838e+02	2.769749e+01
PAK	6.157070e+03	1.075634e+04	5.098388e+03	2.241498e+04	3.325616e+03
PLW	8.808934e-01	1.538911e+00	7.294276e-01	3.206916e+00	4.757967e-01
PSE	6.889284e+01	1.203551e+02	5.704701e+01	2.508062e+02	3.721107e+01
PAN	8.383314e+01	1.464556e+02	6.941839e+01	3.051968e+02	4.528077e+01
PNG	2.759290e+02	4.820449e+02	2.284842e+02	1.004527e+03	1.490374e+02
PRY	1.420899e+02	2.482294e+02	1.176581e+02	5.172819e+02	7.674694e+01
PER	6.495978e+02	1.134840e+03	5.379023e+02	2.364878e+03	3.508671e+02
PHL	2.659051e+03	4.645333e+03	2.201838e+03	9.680346e+03	1.436232e+03
POL	1.748469e+03	3.054556e+03	1.447827e+03	6.365347e+03	9.443998e+02
PRT	4.906184e+02	8.571051e+02	4.062587e+02	1.786109e+03	2.649975e+02
PRI	1.379863e+02	2.410606e+02	1.142601e+02	5.023427e+02	7.453049e+01
QAT	1.801471e+01	3.147150e+01	1.491715e+01	6.558302e+01	9.730277e+00
ROU	1.168427e+03	2.041229e+03	9.675207e+02	4.253688e+03	6.311019e+02
RUS	7.750218e+03	1.353955e+04	6.417601e+03	2.821487e+04	4.186123e+03
RWA	2.901061e+02	5.068123e+02	2.402236e+02	1.056139e+03	1.566949e+02
KNA	2.106295e+00	3.679674e+00	1.744126e+00	7.668022e+00	1.137672e+00
LCA	5.874076e+00	1.026195e+01	4.864054e+00	2.138473e+01	3.172763e+00
VCT	4.278002e+00	7.473624e+00	3.542418e+00	1.557418e+01	2.310676e+00
WSM	5.782498e+00	1.010196e+01	4.788222e+00	2.105134e+01	3.123299e+00
SMR	1.295175e+00	2.262657e+00	1.072475e+00	4.715119e+00	6.995624e-01
STP	4.199507e+00	7.336493e+00	3.477419e+00	1.528842e+01	2.268278e+00
SAU	5.131117e+02	8.964006e+02	4.248843e+02	1.867997e+03	2.771468e+02
SEN	3.643890e+02	6.365836e+02	3.017338e+02	1.326568e+03	1.968173e+02
SRB	5.084325e+02	8.882261e+02	4.210097e+02	1.850962e+03	2.746195e+02
SYC	3.418913e+00	5.972804e+00	2.831046e+00	1.244664e+01	1.846656e+00
SLE	2.791124e+02	4.876063e+02	2.311202e+02	1.016116e+03	1.507569e+02
SGP	9.777045e+01	1.708039e+02	8.095924e+01	3.559359e+02	5.280872e+01
SVK	2.367903e+02	4.136700e+02	1.960752e+02	8.620412e+02	1.278974e+02
SVN	8.817220e+01	1.540359e+02	7.301137e+01	3.209932e+02	4.762442e+01
SLB	2.540200e+01	4.437702e+01	2.103424e+01	9.247666e+01	1.372037e+01
SOM	7.210549e+02	1.259675e+03	5.970726e+02	2.625019e+03	3.894631e+02

ZAF	2.203930e+03	3.850242e+03	1.824974e+03	8.023465e+03	1.190408e+03
KOR	1.369528e+03	2.392550e+03	1.134043e+03	4.985802e+03	7.397225e+02
SSD	2.960064e+02	5.171199e+02	2.451093e+02	1.077619e+03	1.598818e+02
ESP	1.796613e+03	3.138663e+03	1.487693e+03	6.540616e+03	9.704038e+02
LKA	5.739151e+02	1.002624e+03	4.752329e+02	2.089353e+03	3.099886e+02
SDN	7.991317e+02	1.396074e+03	6.617244e+02	2.909260e+03	4.316347e+02
SUR	1.807140e+01	3.157054e+01	1.496410e+01	6.578940e+01	9.760898e+00
SWE	3.897125e+02	6.808235e+02	3.227031e+02	1.418759e+03	2.104953e+02
CHE	2.871233e+02	5.016013e+02	2.377537e+02	1.045280e+03	1.550838e+02
SYR	3.614934e+02	6.315250e+02	2.993361e+02	1.316026e+03	1.952533e+02
TWN	7.963887e+02	1.391283e+03	6.594531e+02	2.899274e+03	4.301532e+02
TJK	2.043847e+02	3.570579e+02	1.692416e+02	7.440680e+02	1.103942e+02
TZA	1.429873e+03	2.497973e+03	1.184013e+03	5.205491e+03	7.723169e+02
THA	2.114284e+03	3.693631e+03	1.750742e+03	7.697106e+03	1.141987e+03
TLS	3.258433e+01	5.692448e+01	2.698160e+01	1.186241e+02	1.759977e+01
TGO	2.191462e+02	3.828461e+02	1.814650e+02	7.978076e+02	1.183674e+02
TKL	3.924773e-02	6.856536e-02	3.249925e-02	1.428824e-01	2.119886e-02
TON	2.795310e+00	4.883377e+00	2.314669e+00	1.017640e+01	1.509830e+00
TTO	4.926026e+01	8.605714e+01	4.079017e+01	1.793333e+02	2.660693e+01
TUN	2.869314e+02	5.012661e+02	2.375948e+02	1.044581e+03	1.549802e+02
TUR	1.914055e+03	3.343833e+03	1.584941e+03	6.968168e+03	1.033838e+03
TKM	1.503406e+02	2.626434e+02	1.244902e+02	5.473189e+02	8.120342e+01
TUV	4.535293e-01	7.923108e-01	3.755469e-01	1.651085e+00	2.449646e-01
UGA	9.711893e+02	1.696657e+03	8.041975e+02	3.535641e+03	5.245682e+02
UKR	3.067576e+03	5.359023e+03	2.540120e+03	1.116759e+04	1.656889e+03
ARE	1.183842e+02	2.068160e+02	9.802856e+01	4.309809e+02	6.394283e+01
GBR	2.589199e+03	4.523302e+03	2.143997e+03	9.426047e+03	1.398503e+03
USA	1.236288e+04	2.159781e+04	1.023713e+04	4.500738e+04	6.677557e+03
VIR	5.433630e+00	9.492493e+00	4.499340e+00	1.978127e+01	2.934865e+00
URY	1.400664e+02	2.446945e+02	1.159826e+02	5.099155e+02	7.565403e+01
UZB	9.075077e+02	1.585406e+03	7.514657e+02	3.303806e+03	4.901718e+02
VUT	9.388928e+00	1.640236e+01	7.774542e+00	3.418064e+01	5.071239e+00
VEN	7.907327e+02	1.381401e+03	6.547696e+02	2.878683e+03	4.270982e+02
VNM	2.700496e+03	4.717738e+03	2.236158e+03	9.831229e+03	1.458618e+03
YEM	7.042525e+02	1.230322e+03	5.831593e+02	2.563850e+03	3.803877e+02
ZMB	5.233074e+02	9.142124e+02	4.333269e+02	1.905114e+03	2.826538e+02
ZWE	5.387405e+02	9.411738e+02	4.461063e+02	1.961299e+03	2.909897e+02
	C11	C12	C13	C14	C15
AFG	4.721043e+03	7.427348e+04	9.974565e+03	7.532040e+03	6.723128e+02
ALB	4.823190e+02	7.588050e+03	1.019038e+03	7.695007e+02	6.868594e+01
DZA	4.171067e+03	6.562102e+04	8.812582e+03	6.654598e+03	5.939920e+02
ASM	7.809077e+00	1.228558e+02	1.649893e+01	1.245875e+01	1.112073e+00
AND	1.273313e+01	2.003232e+02	2.690242e+01	2.031468e+01	1.813296e+00

AGO	3.760071e+03	5.915505e+04	7.944234e+03	5.998887e+03	5.354630e+02
ATG	1.253791e+01	1.972518e+02	2.648995e+01	2.000321e+01	1.785495e+00
ARG	7.311292e+03	1.150244e+05	1.544721e+04	1.166457e+04	1.041184e+03
ARM	6.065918e+02	9.543163e+03	1.281600e+03	9.677679e+02	8.638334e+01
AUS	3.490115e+03	5.490800e+04	7.373875e+03	5.568195e+03	4.970193e+02
AUT	1.727737e+03	2.718150e+04	3.650342e+03	2.756463e+03	2.460430e+02
AZE	1.646913e+03	2.590994e+04	3.479578e+03	2.627515e+03	2.345330e+02
BHS	5.557460e+01	8.743236e+02	1.174174e+02	8.866476e+01	7.914251e+00
BHR	8.811242e+01	1.386223e+03	1.861629e+02	1.405762e+02	1.254789e+01
BGD	1.792016e+04	2.819277e+05	3.786151e+04	2.859016e+04	2.551969e+03
BRB	6.188694e+01	9.736320e+02	1.307540e+02	9.873558e+01	8.813176e+00
BLR	2.619230e+03	4.120685e+04	5.533878e+03	4.178768e+03	3.729985e+02
BEL	2.341465e+03	3.683694e+04	4.947020e+03	3.735617e+03	3.334426e+02
BLZ	4.127965e+01	6.494293e+02	8.721517e+01	6.585833e+01	5.878540e+00
BEN	1.790253e+03	2.816503e+04	3.782425e+03	2.856203e+03	2.549458e+02
BMU	1.208238e+01	1.900852e+02	2.552751e+01	1.927645e+01	1.720624e+00
BTN	8.674583e+01	1.364723e+03	1.832756e+02	1.383959e+02	1.235327e+01
BOL	1.588323e+03	2.498818e+04	3.355790e+03	2.534040e+03	2.261894e+02
BIH	8.071549e+02	1.269851e+04	1.705348e+03	1.287750e+03	1.149451e+02
BWA	4.506271e+02	7.089461e+03	9.520798e+02	7.189390e+02	6.417277e+01
BRA	2.904087e+04	4.568836e+05	6.135722e+04	4.633235e+04	4.135644e+03
BRN	3.832955e+01	6.030171e+02	8.098224e+01	6.115169e+01	5.458424e+00
BGR	2.707472e+03	4.259512e+04	5.720316e+03	4.319552e+03	3.855649e+02
BFA	3.795320e+03	5.970961e+04	8.018708e+03	6.055125e+03	5.404828e+02
BDI	1.744266e+03	2.744154e+04	3.685265e+03	2.782834e+03	2.483969e+02
KHM	2.425369e+03	3.815696e+04	5.124292e+03	3.869479e+03	3.453913e+02
CMR	4.149028e+03	6.527430e+04	8.766018e+03	6.619437e+03	5.908535e+02
CAN	5.942426e+03	9.348881e+04	1.255509e+04	9.480657e+03	8.462472e+02
CPV	7.435977e+01	1.169860e+03	1.571065e+02	1.186350e+02	1.058940e+01
CAF	1.387781e+03	2.183318e+04	2.932089e+03	2.214093e+03	1.976308e+02
TCD	3.064022e+03	4.820451e+04	6.473630e+03	4.888397e+03	4.363403e+02
CHL	2.412115e+03	3.794844e+04	5.096290e+03	3.848334e+03	3.435038e+02
CHN	2.265188e+05	3.563691e+06	4.785863e+05	3.613923e+05	3.225802e+04
COL	5.122798e+03	8.059407e+04	1.082339e+04	8.173008e+03	7.295259e+02
COM	1.055961e+02	1.661283e+03	2.231022e+02	1.684700e+02	1.503769e+01
COG	7.490857e+02	1.178494e+04	1.582660e+03	1.195105e+03	1.066756e+02
COK	3.579160e+00	5.630890e+01	7.562009e+00	5.710259e+00	5.097000e-01
CRI	5.140976e+02	8.088005e+03	1.086179e+03	8.202009e+02	7.321145e+01
CIV	3.687056e+03	5.800635e+04	7.789969e+03	5.882398e+03	5.250651e+02
HRV	1.108108e+03	1.743323e+04	2.341198e+03	1.767896e+03	1.578031e+02
CUB	2.198537e+03	3.458834e+04	4.645044e+03	3.507587e+03	3.130886e+02
CYP	1.783723e+02	2.806231e+03	3.768630e+02	2.845786e+02	2.540159e+01
CZE	2.422137e+03	3.810611e+04	5.117463e+03	3.864323e+03	3.449310e+02

COD	1.130284e+04	1.778211e+05	2.388050e+04	1.803276e+04	1.609611e+03
DNK	1.154420e+03	1.816184e+04	2.439046e+03	1.841784e+03	1.643983e+02
DJI	1.566588e+02	2.464623e+03	3.309868e+02	2.499363e+02	2.230941e+01
DMA	1.516262e+01	2.385450e+02	3.203542e+01	2.419074e+01	2.159275e+00
DOM	1.507521e+03	2.371697e+04	3.185072e+03	2.405127e+03	2.146825e+02
ECU	1.957801e+03	3.080097e+04	4.136419e+03	3.123512e+03	2.788059e+02
EGY	1.312780e+04	2.065322e+05	2.773626e+04	2.094433e+04	1.869499e+03
SLV	8.665256e+02	1.363255e+04	1.830785e+03	1.382471e+03	1.233999e+02
GNQ	1.557260e+02	2.449949e+03	3.290161e+02	2.484482e+02	2.217658e+01
ERI	9.234668e+02	1.452838e+04	1.951090e+03	1.473316e+03	1.315088e+02
EST	3.409964e+02	5.364702e+03	7.204532e+02	5.440320e+02	4.856051e+01
SWZ	2.447495e+02	3.850505e+03	5.171039e+02	3.904779e+02	3.485421e+01
ETH	1.152062e+04	1.812474e+05	2.434064e+04	1.838022e+04	1.640625e+03
FJI	1.552705e+02	2.442782e+03	3.280537e+02	2.477214e+02	2.211171e+01
FIN	1.175570e+03	1.849457e+04	2.483730e+03	1.875526e+03	1.674102e+02
FRA	1.231919e+04	1.938108e+05	2.602784e+04	1.965426e+04	1.754347e+03
GAB	2.481551e+02	3.904083e+03	5.242993e+02	3.959113e+02	3.533920e+01
GMB	2.726669e+02	4.289714e+03	5.760876e+02	4.350180e+02	3.882987e+01
GEO	1.080755e+03	1.700290e+04	2.283406e+03	1.724256e+03	1.539078e+02
DEU	2.021082e+04	3.179654e+05	4.270120e+04	3.224473e+04	2.878177e+03
GHA	4.313517e+03	6.786212e+04	9.113550e+03	6.881866e+03	6.142781e+02
GRC	2.745693e+03	4.319643e+04	5.801069e+03	4.380530e+03	3.910079e+02
GRL	9.869806e+00	1.552760e+02	2.085281e+01	1.574647e+01	1.405536e+00
GRD	1.681121e+01	2.644812e+02	3.551853e+01	2.682092e+01	2.394045e+00
GUM	2.403460e+01	3.781228e+02	5.078003e+01	3.834526e+01	3.422713e+00
GTM	2.041336e+03	3.211518e+04	4.312912e+03	3.256786e+03	2.907020e+02
GIN	2.223071e+03	3.497431e+04	4.696878e+03	3.546729e+03	3.165824e+02
GNB	2.884586e+02	4.538156e+03	6.094521e+02	4.602123e+02	4.107873e+01
GUY	1.415612e+02	2.227102e+03	2.990889e+02	2.258494e+02	2.015941e+01
HTI	1.988104e+03	3.127771e+04	4.200444e+03	3.171859e+03	2.831214e+02
HND	1.118997e+03	1.760455e+04	2.364205e+03	1.785269e+03	1.593538e+02
HUN	2.773611e+03	4.363564e+04	5.860053e+03	4.425070e+03	3.949835e+02
ISL	4.362237e+01	6.862860e+02	9.216485e+01	6.959595e+01	6.212162e+00
IND	1.911651e+05	3.007491e+06	4.038913e+05	3.049883e+05	2.722338e+04
IDN	3.716129e+04	5.846375e+05	7.851395e+04	5.928782e+04	5.292054e+03
IRN	8.157883e+03	1.283433e+05	1.723588e+04	1.301524e+04	1.161745e+03
IRQ	3.585972e+03	5.641605e+04	7.576400e+03	5.721126e+03	5.106700e+02
IRL	6.731208e+02	1.058983e+04	1.422162e+03	1.073909e+03	9.585758e+01
ISR	9.719481e+02	1.529111e+04	2.053521e+03	1.550664e+03	1.384129e+02
ITA	1.354812e+04	2.131449e+05	2.862431e+04	2.161492e+04	1.929357e+03
JAM	4.053996e+02	6.377921e+03	8.565235e+02	6.467821e+02	5.773202e+01
JPN	2.971295e+04	4.674570e+05	6.277718e+04	4.740460e+04	4.231353e+03
JOR	6.535330e+02	1.028166e+04	1.380777e+03	1.042659e+03	9.306813e+01

KAZ	3.043328e+03	4.787894e+04	6.429907e+03	4.855382e+03	4.333933e+02
KEN	6.251101e+03	9.834502e+04	1.320725e+04	9.973124e+03	8.902049e+02
KIR	2.438167e+01	3.835830e+02	5.151332e+01	3.889898e+01	3.472138e+00
KWT	2.063332e+02	3.246122e+03	4.359384e+02	3.291878e+02	2.938343e+01
KGZ	7.629468e+02	1.200301e+04	1.611945e+03	1.217220e+03	1.086495e+02
LAO	9.214277e+02	1.449630e+04	1.946782e+03	1.470063e+03	1.312184e+02
LVA	5.844660e+02	9.195072e+03	1.234853e+03	9.324681e+02	8.323246e+01
LBN	7.147692e+02	1.124506e+04	1.510156e+03	1.140356e+03	1.017886e+02
LSO	6.937497e+02	1.091437e+04	1.465746e+03	1.106821e+03	9.879530e+01
LBR	6.048347e+02	9.515521e+03	1.277888e+03	9.649646e+02	8.613312e+01
LIB	6.624267e+02	1.042158e+04	1.399567e+03	1.056848e+03	9.433466e+01
LTU	8.255496e+02	1.298790e+04	1.744212e+03	1.317097e+03	1.175646e+02
LUX	8.633369e+01	1.358239e+03	1.824048e+02	1.377384e+02	1.229458e+01
MDG	3.404801e+03	5.356580e+04	7.193624e+03	5.432083e+03	4.848699e+02
MWI	2.432810e+03	3.827401e+04	5.140012e+03	3.881350e+03	3.464508e+02
MYS	3.638444e+03	5.724158e+04	7.687263e+03	5.804842e+03	5.181425e+02
MDV	2.980464e+01	4.688995e+02	6.297091e+01	4.755089e+01	4.244411e+00
MLI	4.088963e+03	6.432933e+04	8.639114e+03	6.523608e+03	5.822998e+02
MLT	7.787385e+01	1.225145e+03	1.645310e+02	1.242414e+02	1.108984e+01
MHL	8.850288e+00	1.392365e+02	1.869879e+01	1.411991e+01	1.260349e+00
MRT	4.378940e+02	6.889137e+03	9.251774e+02	6.986243e+02	6.235948e+01
MUS	2.296736e+02	3.613325e+03	4.852518e+02	3.664256e+02	3.270729e+01
MEX	1.599564e+04	2.516503e+05	3.379540e+04	2.551974e+04	2.277902e+03
FSM	1.991315e+01	3.132822e+02	4.207227e+01	3.176981e+01	2.835785e+00
MDA	9.215362e+02	1.449800e+04	1.947011e+03	1.470236e+03	1.312338e+02
MCO	1.112794e+01	1.750695e+02	2.351097e+01	1.775372e+01	1.584704e+00
MNG	5.481972e+02	8.624475e+03	1.158225e+03	8.746041e+02	7.806750e+01
MNE	1.458128e+02	2.293990e+03	3.080717e+02	2.326325e+02	2.076487e+01
MAR	4.808179e+03	7.564435e+04	1.015867e+04	7.671059e+03	6.847217e+02
MOZ	5.397157e+03	8.491040e+04	1.140305e+04	8.610725e+03	7.685967e+02
MMR	8.816643e+03	1.387072e+05	1.862770e+04	1.406624e+04	1.255558e+03
NAM	4.020156e+02	6.324683e+03	8.493740e+02	6.413833e+02	5.725012e+01
NRU	1.366589e+00	2.149976e+01	2.887312e+00	2.180281e+00	1.946127e-01
NPL	4.042998e+03	6.360619e+04	8.541999e+03	6.450275e+03	5.757540e+02
NLD	3.197535e+03	5.030500e+04	6.755715e+03	5.101407e+03	4.553536e+02
NZL	7.082833e+02	1.114302e+04	1.496453e+03	1.130008e+03	1.008650e+02
NIC	6.330559e+02	9.959508e+03	1.337513e+03	1.009989e+03	9.015203e+01
NER	3.772544e+03	5.935128e+04	7.970586e+03	6.018787e+03	5.372392e+02
NGA	3.122546e+04	4.912525e+05	6.597280e+04	4.981769e+04	4.446746e+03
NIU	3.904539e-01	6.142789e+00	8.249464e-01	6.229374e-01	5.560364e-02
PRK	5.075358e+03	7.984772e+04	1.072316e+04	8.097321e+03	7.227700e+02
MKD	5.189566e+02	8.164449e+03	1.096445e+03	8.279530e+02	7.390341e+01
MNP	7.462007e+00	1.173955e+02	1.576564e+01	1.190503e+01	1.062647e+00

NOR	8.386732e+02	1.319437e+04	1.771939e+03	1.338035e+03	1.194335e+02
OMN	2.550748e+02	4.012947e+03	5.389192e+02	4.069512e+02	3.632462e+01
PAK	3.062664e+04	4.818315e+05	6.470761e+04	4.886231e+04	4.361469e+03
PLW	4.381760e+00	6.893574e+01	9.257732e+00	6.990742e+00	6.239964e-01
PSE	3.426883e+02	5.391321e+03	7.240280e+02	5.467314e+02	4.880146e+01
PAN	4.170047e+02	6.560498e+03	8.810428e+02	6.652971e+02	5.938468e+01
PNG	1.372532e+03	2.159327e+04	2.899870e+03	2.189763e+03	1.954591e+02
PRY	7.067866e+02	1.111947e+04	1.493291e+03	1.127621e+03	1.006518e+02
PER	3.231244e+03	5.083533e+04	6.826936e+03	5.155188e+03	4.601541e+02
PHL	1.322671e+04	2.080883e+05	2.794524e+04	2.110214e+04	1.883586e+03
POL	8.697273e+03	1.368293e+05	1.837550e+04	1.387579e+04	1.238559e+03
PRT	2.440445e+03	3.839413e+04	5.156144e+03	3.893532e+03	3.475382e+02
PRI	6.863745e+02	1.079834e+04	1.450164e+03	1.095055e+03	9.774501e+01
QAT	8.960916e+01	1.409770e+03	1.893252e+02	1.429641e+02	1.276103e+01
ROU	5.812014e+03	9.143711e+04	1.227956e+04	9.272596e+03	8.276756e+02
RUS	3.855131e+04	6.065058e+05	8.145076e+04	6.150548e+04	5.490003e+03
RWA	1.443052e+03	2.270272e+04	3.048864e+03	2.302273e+03	2.055018e+02
KNA	1.047718e+01	1.648315e+02	2.213606e+01	1.671549e+01	1.492031e+00
LCA	2.921896e+01	4.596853e+02	6.173349e+01	4.661648e+01	4.161005e+00
VCT	2.127974e+01	3.347820e+02	4.495958e+01	3.395009e+01	3.030398e+00
WSM	2.876343e+01	4.525188e+02	6.077105e+01	4.588972e+01	4.096134e+00
SMR	6.442489e+00	1.013560e+02	1.361162e+01	1.027847e+01	9.174600e-01
STP	2.088928e+01	3.286392e+02	4.413463e+01	3.332715e+01	2.974795e+00
SAU	2.552332e+03	4.015439e+04	5.392537e+03	4.072038e+03	3.634717e+02
SEN	1.812552e+03	2.851585e+04	3.829539e+03	2.891779e+03	2.581213e+02
SRB	2.529056e+03	3.978821e+04	5.343361e+03	4.034904e+03	3.601571e+02
SYC	1.700643e+01	2.675526e+02	3.593100e+01	2.713238e+01	2.421847e+00
SLE	1.388367e+03	2.184239e+04	2.933326e+03	2.215027e+03	1.977142e+02
SGP	4.863320e+02	7.651184e+03	1.027517e+03	7.759031e+02	6.925742e+01
SVK	1.177847e+03	1.853040e+04	2.488543e+03	1.879160e+03	1.677345e+02
SVN	4.385881e+02	6.900058e+03	9.266440e+02	6.997317e+02	6.245833e+01
SLB	1.263552e+02	1.987875e+03	2.669618e+02	2.015895e+02	1.799395e+01
SOM	3.586687e+03	5.642731e+04	7.577912e+03	5.722268e+03	5.107719e+02
ZAF	1.096284e+04	1.724721e+05	2.316216e+04	1.749032e+04	1.561193e+03
KOR	6.812335e+03	1.071746e+05	1.439302e+04	1.086853e+04	9.701290e+02
SSD	1.472402e+03	2.316446e+04	3.110873e+03	2.349097e+03	2.096813e+02
ESP	8.936751e+03	1.405968e+05	1.888147e+04	1.425786e+04	1.272662e+03
LKA	2.854782e+03	4.491266e+04	6.031550e+03	4.554572e+03	4.065429e+02
SDN	3.975059e+03	6.253734e+04	8.398459e+03	6.341883e+03	5.660790e+02
SUR	8.989116e+01	1.414206e+03	1.899210e+02	1.434140e+02	1.280119e+01
SWE	1.938517e+03	3.049758e+04	4.095676e+03	3.092746e+03	2.760597e+02
CHE	1.428215e+03	2.246930e+04	3.017516e+03	2.278601e+03	2.033888e+02
SYR	1.798148e+03	2.828925e+04	3.799107e+03	2.868800e+03	2.560702e+02

TWN	3.961415e+03	6.232269e+04	8.369631e+03	6.320115e+03	5.641360e+02
TJK	1.016655e+03	1.599446e+04	2.147977e+03	1.621991e+03	1.447795e+02
TZA	7.112508e+03	1.118970e+05	1.502722e+04	1.134743e+04	1.012876e+03
THA	1.051692e+04	1.654567e+05	2.222002e+04	1.677889e+04	1.497690e+03
TLS	1.620817e+02	2.549940e+03	3.424444e+02	2.585882e+02	2.308169e+01
TGO	1.090082e+03	1.714964e+04	2.303113e+03	1.739137e+03	1.552361e+02
TKL	1.952269e-01	3.071394e+00	4.124732e-01	3.114687e-01	2.780182e-02
TON	1.390450e+01	2.187515e+02	2.937726e+01	2.218349e+01	1.980107e+00
TTO	2.450315e+02	3.854941e+03	5.176997e+02	3.909278e+02	3.489437e+01
TUN	1.427261e+03	2.245428e+04	3.015500e+03	2.277078e+03	2.032529e+02
TUR	9.520935e+03	1.497875e+05	2.011572e+04	1.518988e+04	1.355854e+03
TKM	7.478276e+02	1.176515e+04	1.580002e+03	1.193098e+03	1.064964e+02
TUV	2.255956e+00	3.549167e+01	4.766357e+00	3.599194e+00	3.212655e-01
UGA	4.830912e+03	7.600199e+04	1.020670e+04	7.707328e+03	6.879591e+02
UKR	1.525881e+04	2.400581e+05	3.223863e+04	2.434419e+04	2.172972e+03
ARE	5.888695e+02	9.264349e+03	1.244157e+03	9.394934e+02	8.385955e+01
GBR	1.287925e+04	2.026219e+05	2.721113e+04	2.054780e+04	1.834104e+03
USA	6.149570e+04	9.674769e+05	1.299274e+05	9.811139e+04	8.757461e+03
VIR	2.702808e+01	4.252175e+02	5.710462e+01	4.312111e+01	3.849007e+00
URY	6.967215e+02	1.096112e+04	1.472025e+03	1.111563e+03	9.921851e+01
UZB	4.514146e+03	7.101849e+04	9.537435e+03	7.201952e+03	6.428491e+02
VUT	4.670262e+01	7.347458e+02	9.867276e+01	7.451023e+01	6.650813e+00
VEN	3.933280e+03	6.188006e+04	8.310189e+03	6.275229e+03	5.601294e+02
VNM	1.343287e+04	2.113317e+05	2.838081e+04	2.143105e+04	1.912944e+03
YEM	3.503109e+03	5.511242e+04	7.401328e+03	5.588925e+03	4.988696e+02
ZMB	2.603047e+03	4.095227e+04	5.499689e+03	4.152951e+03	3.706940e+02
ZWE	2.679815e+03	4.216001e+04	5.661882e+03	4.275427e+03	3.816263e+02
	C16	C17	C18	C19	C20
AFG	3.037430e+03	2.430915e+01	6.140449e+03	1.899332e+02	4.033218e+04
ALB	3.103150e+02	2.483511e+00	6.273308e+02	1.940427e+01	4.120483e+03
DZA	2.683586e+03	2.147726e+01	5.425120e+03	1.678070e+02	3.563370e+04
ASM	5.024214e+00	4.020976e-02	1.015692e+01	3.141686e-01	6.671347e+01
AND	8.192259e+00	6.556425e-02	1.656142e+01	5.122693e-01	1.087800e+02
AGO	2.419159e+03	1.936100e+01	4.890556e+03	1.512722e+02	3.212254e+04
ATG	8.066654e+00	6.455900e-02	1.630750e+01	5.044151e-01	1.071122e+02
ARG	4.703948e+03	3.764661e+01	9.509471e+03	2.941421e+02	6.246086e+04
ARM	3.902697e+02	3.123405e+00	7.889668e+02	2.440392e+01	5.182154e+03
AUS	2.245475e+03	1.797097e+01	4.539437e+03	1.404115e+02	2.981629e+04
AUT	1.111593e+03	8.896298e+00	2.247190e+03	6.950892e+01	1.476017e+04
AZE	1.059593e+03	8.480127e+00	2.142066e+03	6.625728e+01	1.406969e+04
BHS	3.575565e+01	2.861595e-01	7.228340e+01	2.235833e+00	4.747775e+02
BHR	5.668988e+01	4.537001e-01	1.146039e+02	3.544869e+00	7.527503e+02
BGD	1.152950e+04	9.227280e+01	2.330795e+04	7.209496e+02	1.530931e+05

BRB	3.981689e+01	3.186624e-01	8.049358e+01	2.489786e+00	5.287042e+02
BLR	1.685163e+03	1.348669e+01	3.406715e+03	1.053748e+02	2.237625e+04
BEL	1.506455e+03	1.205645e+01	3.045439e+03	9.419995e+01	2.000329e+04
BLZ	2.655855e+01	2.125533e-01	5.369060e+01	1.660730e+00	3.526548e+02
BEN	1.151815e+03	9.218199e+00	2.328502e+03	7.202401e+01	1.529425e+04
BMU	7.773575e+00	6.221344e-02	1.571501e+01	4.860886e-01	1.032206e+02
BTN	5.581064e+01	4.466634e-01	1.128264e+02	3.489889e+00	7.410755e+02
BOL	1.021897e+03	8.178442e+00	2.065861e+03	6.390014e+01	1.356915e+04
BIH	5.193083e+02	4.156126e+00	1.049830e+03	3.247281e+01	6.895578e+03
BWA	2.899250e+02	2.320327e+00	5.861106e+02	1.812927e+01	3.849738e+03
BRA	1.868435e+04	1.495345e+02	3.777217e+04	1.168349e+03	2.480981e+05
BRN	2.466051e+01	1.973629e-01	4.985354e+01	1.542044e+00	3.274519e+02
BGR	1.741937e+03	1.394106e+01	3.521488e+03	1.089249e+02	2.313012e+04
BFA	2.441838e+03	1.954250e+01	4.936403e+03	1.526903e+02	3.242367e+04
BDI	1.122228e+03	8.981409e+00	2.268689e+03	7.017391e+01	1.490138e+04
KHM	1.560437e+03	1.248848e+01	3.154569e+03	9.757552e+01	2.072009e+04
CMR	2.669407e+03	2.136378e+01	5.396455e+03	1.669204e+02	3.544542e+04
CAN	3.823245e+03	3.059818e+01	7.729048e+03	2.390709e+02	5.076654e+04
CPV	4.784168e+01	3.828863e-01	9.671643e+01	2.991583e+00	6.352605e+02
CAF	8.928725e+02	7.145833e+00	1.805025e+03	5.583212e+01	1.185591e+04
TCD	1.971334e+03	1.577697e+01	3.985236e+03	1.232693e+02	2.617614e+04
CHL	1.551910e+03	1.242024e+01	3.137331e+03	9.704230e+01	2.060686e+04
CHN	1.457379e+05	1.166369e+03	2.946229e+05	9.113123e+03	1.935165e+06
COL	3.295912e+03	2.637783e+01	6.662995e+03	2.060963e+02	4.376441e+04
COM	6.793853e+01	5.437253e-01	1.373441e+02	4.248257e+00	9.021144e+02
COG	4.819477e+02	3.857121e+00	9.743024e+02	3.013662e+01	6.399490e+03
COK	2.302765e+00	1.842947e-02	4.655254e+00	1.439939e-01	3.057701e+01
CRI	3.307607e+02	2.647143e+00	6.686638e+02	2.068276e+01	4.391970e+03
CIV	2.372182e+03	1.898504e+01	4.795589e+03	1.483347e+02	3.149876e+04
HRV	7.129359e+02	5.705765e+00	1.441267e+03	4.458052e+01	9.466641e+03
CUB	1.414498e+03	1.132050e+01	2.859539e+03	8.844979e+01	1.878225e+04
CYP	1.147614e+02	9.184579e-01	2.320009e+02	7.176133e+00	1.523847e+03
CZE	1.558358e+03	1.247184e+01	3.150366e+03	9.744549e+01	2.069248e+04
COD	7.272033e+03	5.819950e+01	1.470109e+04	4.547267e+02	9.656089e+04
DNK	7.427323e+02	5.944231e+00	1.501503e+03	4.644371e+01	9.862289e+03
DJI	1.007913e+02	8.066525e-01	2.037591e+02	6.302570e+00	1.338346e+03
DMA	9.755348e+00	7.807395e-02	1.972135e+01	6.100106e-01	1.295353e+02
DOM	9.699105e+02	7.762383e+00	1.960765e+03	6.064937e+01	1.287885e+04
ECU	1.259612e+03	1.008092e+01	2.546424e+03	7.876467e+01	1.672562e+04
EGY	8.446178e+03	6.759641e+01	1.707474e+04	5.281470e+02	1.121516e+05
SLV	5.575063e+02	4.461831e+00	1.127051e+03	3.486136e+01	7.402786e+03
GNQ	1.001912e+02	8.018496e-01	2.025459e+02	6.265045e+00	1.330378e+03
ERI	5.941412e+02	4.755028e+00	1.201112e+03	3.715218e+01	7.889238e+03

EST	2.193907e+02	1.755826e+00	4.435188e+02	1.371869e+01	2.913155e+03
SWZ	1.574672e+02	1.260241e+00	3.183347e+02	9.846566e+00	2.090911e+03
ETH	7.412152e+03	5.932090e+01	1.498436e+04	4.634885e+02	9.842145e+04
FJI	9.989811e+01	7.995041e-01	2.019534e+02	6.246718e+00	1.326486e+03
FIN	7.563395e+02	6.053133e+00	1.529011e+03	4.729459e+01	1.004297e+04
FRA	7.925934e+03	6.343280e+01	1.602302e+04	4.956157e+02	1.052436e+05
GAB	1.596583e+02	1.277777e+00	3.227643e+02	9.983579e+00	2.120006e+03
GMB	1.754288e+02	1.403991e+00	3.546457e+02	1.096972e+01	2.329412e+03
GEO	6.953372e+02	5.564919e+00	1.405689e+03	4.348006e+01	9.232959e+03
DEU	1.300326e+04	1.040677e+02	2.628732e+04	8.131057e+02	1.726624e+05
GHA	2.775236e+03	2.221075e+01	5.610399e+03	1.735380e+02	3.685067e+04
GRC	1.766527e+03	1.413786e+01	3.571201e+03	1.104625e+02	2.345664e+04
GRL	6.350048e+00	5.082067e-02	1.283722e+01	3.970741e-01	8.431841e+01
GRD	1.081602e+01	8.656268e-02	2.186559e+01	6.763351e-01	1.436193e+02
GUM	1.546341e+01	1.237567e-01	3.126074e+01	9.669410e-01	2.053292e+02
GTM	1.313357e+03	1.051105e+01	2.655075e+03	8.212541e+01	1.743927e+04
GIN	1.430282e+03	1.144683e+01	2.891449e+03	8.943681e+01	1.899184e+04
GNB	1.855889e+02	1.485304e+00	3.751853e+02	1.160504e+01	2.464321e+03
GUY	9.107783e+01	7.289136e-01	1.841224e+02	5.695178e+00	1.209367e+03
HTI	1.279109e+03	1.023696e+01	2.585838e+03	7.998382e+01	1.698451e+04
HND	7.199419e+02	5.761835e+00	1.455430e+03	4.501861e+01	9.559670e+03
HUN	1.784489e+03	1.428161e+01	3.607512e+03	1.115857e+02	2.369514e+04
ISL	2.806582e+01	2.246162e-01	5.673767e+01	1.754980e+00	3.726689e+02
IND	1.229920e+05	9.843290e+02	2.486399e+05	7.690800e+03	1.633136e+06
IDN	2.390888e+04	1.913474e+02	4.833404e+04	1.495044e+03	3.174714e+05
IRN	5.248628e+03	4.200580e+01	1.061059e+04	3.282014e+02	6.969334e+04
IRQ	2.307147e+03	1.846455e+01	4.664113e+03	1.442679e+02	3.063520e+04
IRL	4.330733e+02	3.465970e+00	8.754981e+02	2.708046e+01	5.750516e+03
ISR	6.253332e+02	5.004663e+00	1.264170e+03	3.910264e+01	8.303418e+03
ITA	8.716606e+03	6.976070e+01	1.762143e+04	5.450571e+02	1.157425e+05
JAM	2.608265e+02	2.087445e+00	5.272851e+02	1.630971e+01	3.463356e+03
JPN	1.911676e+04	1.529951e+02	3.864631e+04	1.195388e+03	2.538397e+05
JOR	4.204709e+02	3.365110e+00	8.500212e+02	2.629242e+01	5.583176e+03
KAZ	1.958020e+03	1.567041e+01	3.958320e+03	1.224367e+02	2.599935e+04
KEN	4.021841e+03	3.218758e+01	8.130528e+03	2.514893e+02	5.340358e+04
KIR	1.568671e+01	1.255438e-01	3.171216e+01	9.809040e-01	2.082943e+02
KWT	1.327509e+02	1.062431e+00	2.683683e+02	8.301031e+00	1.762718e+03
KGZ	4.908657e+02	3.928494e+00	9.923309e+02	3.069427e+01	6.517906e+03
LAO	5.928293e+02	4.744528e+00	1.198460e+03	3.707014e+01	7.871819e+03
LVA	3.760345e+02	3.009477e+00	7.601889e+02	2.351377e+01	4.993133e+03
LBN	4.598691e+02	3.680422e+00	9.296683e+02	2.875602e+01	6.106321e+03
LSO	4.463456e+02	3.572190e+00	9.023293e+02	2.791039e+01	5.926750e+03
LBR	3.891393e+02	3.114358e+00	7.866815e+02	2.433323e+01	5.167144e+03

LBY	4.261929e+02	3.410905e+00	8.615888e+02	2.665022e+01	5.659155e+03
LTU	5.311431e+02	4.250842e+00	1.073756e+03	3.321285e+01	7.052726e+03
LUX	5.554547e+01	4.445412e-01	1.122904e+02	3.473308e+00	7.375545e+02
MDG	2.190585e+03	1.753168e+01	4.428473e+03	1.369792e+02	2.908744e+04
MWI	1.565224e+03	1.252679e+01	3.164247e+03	9.787485e+01	2.078365e+04
MYS	2.340907e+03	1.873473e+01	4.732362e+03	1.463790e+02	3.108347e+04
MDV	1.917575e+01	1.534673e-01	3.876557e+01	1.199077e+00	2.546231e+02
MLI	2.630762e+03	2.105450e+01	5.318332e+03	1.645039e+02	3.493228e+04
MLT	5.010257e+01	4.009807e-01	1.012870e+02	3.132959e+00	6.652815e+02
MHL	5.694109e+00	4.557106e-02	1.151117e+01	3.560577e-01	7.560860e+01
MRT	2.817328e+02	2.254762e+00	5.695492e+02	1.761700e+01	3.740958e+03
MUS	1.477677e+02	1.182614e+00	2.987262e+02	9.240046e+00	1.962117e+03
MEX	1.029129e+04	8.236322e+01	2.080481e+04	6.435237e+02	1.366518e+05
FSM	1.281174e+01	1.025349e-01	2.590014e+01	8.011298e-01	1.701193e+02
MDA	5.928991e+02	4.745087e+00	1.198601e+03	3.707451e+01	7.872745e+03
MCO	7.159504e+00	5.729891e-02	1.447361e+01	4.476902e-01	9.506669e+01
MNG	3.526998e+02	2.822725e+00	7.130156e+02	2.205463e+01	4.683286e+03
MNE	9.381323e+01	7.508056e-01	1.896522e+02	5.866225e+00	1.245689e+03
MAR	3.093492e+03	2.475782e+01	6.253784e+03	1.934388e+02	4.107660e+04
MOZ	3.472429e+03	2.779053e+01	7.019841e+03	2.171341e+02	4.610827e+04
MMR	5.672463e+03	4.539782e+01	1.146741e+04	3.547042e+02	7.532117e+04
NAM	2.586493e+02	2.070021e+00	5.228838e+02	1.617357e+01	3.434446e+03
NRU	8.792374e-01	7.036708e-03	1.777461e+00	5.497950e-02	1.167486e+01
NPL	2.601189e+03	2.081782e+01	5.258547e+03	1.626547e+02	3.453960e+04
NLD	2.057234e+03	1.646444e+01	4.158891e+03	1.286407e+02	2.731676e+04
NZL	4.556962e+02	3.647025e+00	9.212325e+02	2.849509e+01	6.050912e+03
NIC	4.072962e+02	3.259671e+00	8.233875e+02	2.546860e+01	5.408239e+03
NER	2.427184e+03	1.942522e+01	4.906779e+03	1.517740e+02	3.222909e+04
NGA	2.008988e+04	1.607832e+02	4.061357e+04	1.256238e+03	2.667612e+05
NIU	2.512107e-01	2.010488e-03	5.078459e-01	1.570843e-02	3.335673e+00
PRK	3.265390e+03	2.613355e+01	6.601291e+03	2.041877e+02	4.335912e+04
MKD	3.338869e+02	2.672162e+00	6.749836e+02	2.087825e+01	4.433481e+03
MNP	4.800915e+00	3.842266e-02	9.705499e+00	3.002055e-01	6.374843e+01
NOR	5.395866e+02	4.318417e+00	1.090825e+03	3.374083e+01	7.164841e+03
OMN	1.641104e+02	1.313407e+00	3.317644e+02	1.026197e+01	2.179121e+03
PAK	1.970460e+04	1.576998e+02	3.983470e+04	1.232146e+03	2.616454e+05
PLW	2.819142e+00	2.256214e-02	5.699160e+00	1.762835e-01	3.743367e+01
PSE	2.204792e+02	1.764538e+00	4.457194e+02	1.378676e+01	2.927609e+03
PAN	2.682930e+02	2.147201e+00	5.423794e+02	1.677660e+01	3.562499e+03
PNG	8.830614e+02	7.067312e+00	1.785191e+03	5.521861e+01	1.172563e+04
PRY	4.547332e+02	3.639318e+00	9.192857e+02	2.843487e+01	6.038125e+03
PER	2.078922e+03	1.663802e+01	4.202735e+03	1.299968e+02	2.760474e+04
PHL	8.509818e+03	6.810573e+01	1.720339e+04	5.321265e+02	1.129967e+05

POL	5.595662e+03	4.478317e+01	1.131215e+04	3.499017e+02	7.430139e+04
PRT	1.570137e+03	1.256611e+01	3.174178e+03	9.818204e+01	2.084889e+04
PRI	4.416005e+02	3.534215e+00	8.927367e+02	2.761367e+01	5.863743e+03
QAT	5.765285e+01	4.614070e-01	1.165506e+02	3.605084e+00	7.655371e+02
ROU	3.739341e+03	2.992667e+01	7.559427e+03	2.338243e+02	4.965243e+04
RUS	2.480319e+04	1.985048e+02	5.014197e+04	1.550966e+03	3.293464e+05
RWA	9.284328e+02	7.430429e+00	1.876914e+03	5.805573e+01	1.232809e+04
KNA	6.740820e+00	5.394810e-02	1.362720e+01	4.215095e-01	8.950724e+01
LCA	1.879893e+01	1.504515e-01	3.800380e+01	1.175514e+00	2.496196e+02
VCT	1.369098e+01	1.095716e-01	2.767760e+01	8.561093e-01	1.817942e+02
WSM	1.850585e+01	1.481060e-01	3.741131e+01	1.157188e+00	2.457279e+02
SMR	4.144976e+00	3.317305e-02	8.379457e+00	2.591891e-01	5.503861e+01
STP	1.343977e+01	1.075611e-01	2.716976e+01	8.404009e-01	1.784585e+02
SAU	1.642122e+03	1.314223e+01	3.319704e+03	1.026834e+02	2.180474e+04
SEN	1.166162e+03	9.333021e+00	2.357505e+03	7.292114e+01	1.548475e+04
SRB	1.627147e+03	1.302238e+01	3.289431e+03	1.017470e+02	2.160590e+04
SYC	1.094162e+01	8.756792e-02	2.211951e+01	6.841893e-01	1.452871e+02
SLE	8.932493e+02	7.148849e+00	1.805787e+03	5.585568e+01	1.186091e+04
SGP	3.128969e+02	2.504175e+00	6.325503e+02	1.956572e+01	4.154767e+03
SVK	7.578049e+02	6.064861e+00	1.531974e+03	4.738622e+01	1.006243e+04
SVN	2.821794e+02	2.258337e+00	5.704520e+02	1.764493e+01	3.746888e+03
SLB	8.129457e+01	6.506163e-01	1.643446e+02	5.083422e+00	1.079461e+03
SOM	2.307607e+03	1.846823e+01	4.665044e+03	1.442967e+02	3.064131e+04
ZAF	7.053284e+03	5.644881e+01	1.425887e+04	4.410481e+02	9.365626e+04
KOR	4.382929e+03	3.507743e+01	8.860500e+03	2.740684e+02	5.819824e+04
SSD	9.473155e+02	7.581550e+00	1.915087e+03	5.923648e+01	1.257882e+04
ESP	5.749738e+03	4.601627e+01	1.162363e+04	3.595362e+02	7.634727e+04
LKA	1.836713e+03	1.469957e+01	3.713087e+03	1.148513e+02	2.438859e+04
SDN	2.557478e+03	2.046800e+01	5.170182e+03	1.599214e+02	3.395919e+04
SUR	5.783428e+01	4.628590e-01	1.169174e+02	3.616429e+00	7.679462e+02
SWE	1.247205e+03	9.981626e+00	2.521342e+03	7.798885e+01	1.656088e+04
CHE	9.188868e+02	7.354030e+00	1.857616e+03	5.745881e+01	1.220134e+04
SYR	1.156895e+03	9.258856e+00	2.338771e+03	7.234167e+01	1.536170e+04
TWN	2.548700e+03	2.039774e+01	5.152435e+03	1.593725e+02	3.384263e+04
TJK	6.540968e+02	5.234864e+00	1.322318e+03	4.090126e+01	8.685352e+03
TZA	4.576054e+03	3.662305e+01	9.250921e+03	2.861447e+02	6.076263e+04
THA	6.766388e+03	5.415272e+01	1.367889e+04	4.231082e+02	8.984674e+04
TLS	1.042803e+02	8.345759e-01	2.108125e+02	6.520743e+00	1.384675e+03
TGO	7.013383e+02	5.612948e+00	1.417821e+03	4.385531e+01	9.312644e+03
TKL	1.256053e-01	1.005244e-03	2.539229e-01	7.854214e-03	1.667837e+00
TON	8.945891e+00	7.159571e-02	1.808496e+01	5.593946e-01	1.187870e+02
TTO	1.576487e+02	1.261693e+00	3.187015e+02	9.857911e+00	2.093320e+03
TUN	9.182727e+02	7.349116e+00	1.856374e+03	5.742041e+01	1.219318e+04

TUR	6.125591e+03	4.902430e+01	1.238346e+04	3.830387e+02	8.133799e+04
TKM	4.811382e+02	3.850643e+00	9.726660e+02	3.008600e+01	6.388741e+03
TUV	1.451439e+00	1.161615e-02	2.934221e+00	9.075980e-02	1.927278e+01
UGA	3.108118e+03	2.487487e+01	6.283352e+03	1.943534e+02	4.127081e+04
UKR	9.817230e+03	7.856920e+01	1.984645e+04	6.138801e+02	1.303570e+05
ARE	3.788676e+02	3.032151e+00	7.659163e+02	2.369093e+01	5.030752e+03
GBR	8.286268e+03	6.631662e+01	1.675147e+04	5.181477e+02	1.100283e+05
USA	3.956518e+04	3.166478e+02	7.998471e+04	2.474046e+03	5.253619e+05
VIR	1.738936e+01	1.391704e-01	3.515422e+01	1.087372e+00	2.309027e+02
URY	4.482575e+02	3.587493e+00	9.061946e+02	2.802994e+01	5.952139e+03
UZB	2.904316e+03	2.324381e+01	5.871348e+03	1.816095e+02	3.856465e+04
VUT	3.004759e+01	2.404767e-01	6.074401e+01	1.878902e+00	3.989836e+02
VEN	2.530599e+03	2.025287e+01	5.115842e+03	1.582406e+02	3.360228e+04
VNM	8.642457e+03	6.916727e+01	1.747154e+04	5.404205e+02	1.147579e+05
YEM	2.253834e+03	1.803788e+01	4.556337e+03	1.409343e+02	2.992729e+04
ZMB	1.674752e+03	1.340337e+01	3.385668e+03	1.047237e+02	2.223801e+04
ZWE	1.724143e+03	1.379865e+01	3.485516e+03	1.078122e+02	2.289384e+04
	C21	C22	C23	C24	C25
AFG	2.519472e+02	6.203768e+03	5.710087e+03	3.087886e+02	8.490586e+02
ALB	2.573984e+01	6.337997e+02	5.833634e+02	3.154697e+01	8.674293e+01
DZA	2.225967e+02	5.481063e+03	5.044893e+03	2.728164e+02	7.501478e+02
ASM	4.167458e-01	1.026165e+01	9.445056e+00	5.107673e-01	1.404428e+00
AND	6.795272e-01	1.673220e+01	1.540069e+01	8.328344e-01	2.289998e+00
AGO	2.006631e+02	4.940986e+03	4.547794e+03	2.459344e+02	6.762320e+02
ATG	6.691086e-01	1.647566e+01	1.516456e+01	8.200652e-01	2.254887e+00
ARG	3.901806e+02	9.607531e+03	8.842986e+03	4.782087e+02	1.314903e+03
ARM	3.237189e+01	7.971025e+02	7.336709e+02	3.967527e+01	1.090928e+02
AUS	1.862564e+02	4.586247e+03	4.221284e+03	2.282775e+02	6.276817e+02
AUT	9.220386e+01	2.270362e+03	2.089692e+03	1.130058e+02	3.107258e+02
AZE	8.789054e+01	2.164154e+03	1.991936e+03	1.077194e+02	2.961899e+02
BHS	2.965841e+00	7.302877e+01	6.721731e+01	3.634960e+00	9.994845e+00
BHR	4.702282e+00	1.157857e+02	1.065717e+02	5.763157e+00	1.584663e+01
BGD	9.563425e+02	2.354830e+04	2.167438e+04	1.172102e+03	3.222862e+03
BRB	3.302711e+00	8.132361e+01	7.485207e+01	4.047831e+00	1.113009e+01
BLR	1.397800e+02	3.441844e+03	3.167950e+03	1.713156e+02	4.710568e+02
BEL	1.249566e+02	3.076843e+03	2.831995e+03	1.531479e+02	4.211021e+02
BLZ	2.202965e+00	5.424424e+01	4.992761e+01	2.699973e+00	7.423962e+00
BEN	9.554014e+01	2.352513e+03	2.165305e+03	1.170948e+02	3.219690e+02
BMU	6.447984e-01	1.587706e+01	1.461360e+01	7.902705e-01	2.172962e+00
BTN	4.629352e+00	1.139899e+02	1.049188e+02	5.673773e+00	1.560085e+01
BOL	8.476379e+01	2.087163e+03	1.921072e+03	1.038872e+02	2.856528e+02
BIH	4.307531e+01	1.060656e+03	9.762514e+02	5.279347e+01	1.451632e+02
BWA	2.404855e+01	5.921544e+02	5.450322e+02	2.947411e+01	8.104329e+01

BRA	1.549820e+03	3.816167e+04	3.512485e+04	1.899473e+03	5.222872e+03
BRN	2.045527e+00	5.036762e+01	4.635948e+01	2.507016e+00	6.893400e+00
BGR	1.444893e+02	3.557801e+03	3.274679e+03	1.770873e+02	4.869268e+02
BFA	2.025443e+02	4.987306e+03	4.590428e+03	2.482400e+02	6.825715e+02
BDI	9.308597e+01	2.292083e+03	2.109684e+03	1.140870e+02	3.136985e+02
KHM	1.294343e+02	3.187099e+03	2.933477e+03	1.586358e+02	4.361919e+02
CMR	2.214205e+02	5.452102e+03	5.018237e+03	2.713749e+02	7.461842e+02
CAN	3.171285e+02	7.808748e+03	7.187346e+03	3.886754e+02	1.068719e+03
CPV	3.968346e+00	9.771375e+01	8.993792e+01	4.863639e+00	1.337327e+01
CAF	7.406152e+01	1.823638e+03	1.678518e+03	9.077044e+01	2.495863e+02
TCD	1.635172e+02	4.026331e+03	3.705925e+03	2.004080e+02	5.510507e+02
CHL	1.287270e+02	3.169682e+03	2.917446e+03	1.577689e+02	4.338083e+02
CHN	1.208859e+04	2.976610e+05	2.739738e+05	1.481588e+04	4.073840e+04
COL	2.733876e+02	6.731702e+03	6.196009e+03	3.350662e+02	9.213125e+02
COM	5.635330e+00	1.387604e+02	1.277181e+02	6.906708e+00	1.899099e+01
COG	3.997634e+01	9.843492e+02	9.060170e+02	4.899535e+01	1.347197e+02
COK	1.910085e-01	4.703258e+00	4.328984e+00	2.341017e-01	6.436961e-01
CRI	2.743577e+01	6.755589e+02	6.217995e+02	3.362551e+01	9.245817e+01
CIV	1.967665e+02	4.845040e+03	4.459483e+03	2.411588e+02	6.631006e+02
HRV	5.913623e+01	1.456129e+03	1.340253e+03	7.247787e+01	1.992883e+02
CUB	1.173290e+02	2.889026e+03	2.659124e+03	1.437994e+02	3.953972e+02
CYP	9.519169e+00	2.343933e+02	2.157408e+02	1.166678e+01	3.207947e+01
CZE	1.292618e+02	3.182852e+03	2.929568e+03	1.584244e+02	4.356106e+02
COD	6.031968e+02	1.485269e+04	1.367075e+04	7.392831e+02	2.032765e+03
DNK	6.160777e+01	1.516986e+03	1.396268e+03	7.550701e+01	2.076174e+02
DJI	8.360384e+00	2.058602e+02	1.894783e+02	1.024656e+01	2.817438e+01
DMA	8.091815e-01	1.992471e+01	1.833915e+01	9.917398e-01	2.726931e+00
DOM	8.045162e+01	1.980984e+03	1.823342e+03	9.860220e+01	2.711209e+02
ECU	1.044817e+02	2.572682e+03	2.367954e+03	1.280536e+02	3.521018e+02
EGY	7.005891e+02	1.725081e+04	1.587803e+04	8.586480e+02	2.360976e+03
SLV	4.624374e+01	1.138673e+03	1.048060e+03	5.667672e+01	1.558408e+02
GNQ	8.310606e+00	2.046345e+02	1.883501e+02	1.018555e+01	2.800663e+01
ERI	4.928251e+01	1.213498e+03	1.116930e+03	6.040107e+01	1.660814e+02
EST	1.819790e+01	4.480922e+02	4.124341e+02	2.230350e+01	6.132668e+01
SWZ	1.306151e+01	3.216173e+02	2.960238e+02	1.600830e+01	4.401711e+01
ETH	6.148193e+02	1.513888e+04	1.393416e+04	7.535279e+02	2.071933e+03
FJI	8.286296e+00	2.040359e+02	1.877992e+02	1.015576e+01	2.792471e+01
FIN	6.273645e+01	1.544778e+03	1.421848e+03	7.689034e+01	2.114210e+02
FRA	6.574362e+02	1.618824e+04	1.490002e+04	8.057595e+02	2.215551e+03
GAB	1.324326e+01	3.260926e+02	3.001429e+02	1.623105e+01	4.462960e+01
GMB	1.455138e+01	3.583028e+02	3.297899e+02	1.783429e+01	4.903794e+01
GEO	5.767646e+01	1.420184e+03	1.307169e+03	7.068877e+01	1.943689e+02
DEU	1.078588e+03	2.655839e+04	2.444493e+04	1.321927e+03	3.634827e+03

GHA	2.301988e+02	5.668253e+03	5.217186e+03	2.821336e+02	7.757669e+02
GRC	1.465290e+02	3.608026e+03	3.320908e+03	1.795872e+02	4.938007e+02
GRL	5.267204e-01	1.296959e+01	1.193750e+01	6.455531e-01	1.775041e+00
GRD	8.971612e-01	2.209106e+01	2.033311e+01	1.099568e+00	3.023421e+00
GUM	1.282651e+00	3.158309e+01	2.906978e+01	1.572028e+00	4.322517e+00
GTM	1.089397e+02	2.682453e+03	2.468990e+03	1.335174e+02	3.671252e+02
GIN	1.186383e+02	2.921265e+03	2.688797e+03	1.454041e+02	3.998094e+02
GNB	1.539413e+01	3.790541e+02	3.488899e+02	1.886718e+01	5.187801e+01
GUY	7.554676e+00	1.860210e+02	1.712179e+02	9.259075e+00	2.545916e+01
HTI	1.060989e+02	2.612503e+03	2.404606e+03	1.300357e+02	3.575517e+02
HND	5.971736e+01	1.470438e+03	1.353424e+03	7.319011e+01	2.012467e+02
HUN	1.480189e+02	3.644711e+03	3.354674e+03	1.814132e+02	4.988216e+02
ISL	2.327988e+00	5.732274e+01	5.276113e+01	2.853203e+00	7.845290e+00
IND	1.020188e+04	2.512038e+05	2.312136e+05	1.250351e+04	3.438019e+04
IDN	1.983181e+03	4.883245e+04	4.494647e+04	2.430604e+03	6.683294e+03
IRN	4.353605e+02	1.072001e+04	9.866935e+03	5.335815e+02	1.467159e+03
IRQ	1.913720e+02	4.712209e+03	4.337222e+03	2.345472e+02	6.449211e+02
IRL	3.592233e+01	8.845261e+02	8.141376e+02	4.402672e+01	1.210578e+02
ISR	5.186981e+01	1.277205e+03	1.175568e+03	6.357208e+01	1.748006e+02
ITA	7.230204e+02	1.780314e+04	1.638641e+04	8.861401e+02	2.436569e+03
JAM	2.163490e+01	5.327224e+02	4.903296e+02	2.651592e+01	7.290931e+01
JPN	1.585687e+03	3.904482e+04	3.593773e+04	1.943431e+03	5.343743e+03
JOR	3.487700e+01	8.587864e+02	7.904462e+02	4.274554e+01	1.175350e+02
KAZ	1.624128e+02	3.999138e+03	3.680896e+03	1.990545e+02	5.473289e+02
KEN	3.336016e+02	8.214369e+03	7.560688e+03	4.088649e+02	1.124233e+03
KIR	1.301173e+00	3.203916e+01	2.948956e+01	1.594729e+00	4.384936e+00
KWT	1.101135e+01	2.711357e+02	2.495594e+02	1.349561e+01	3.710811e+01
KGZ	4.071607e+01	1.002564e+03	9.227819e+02	4.990196e+01	1.372126e+02
LAO	4.917369e+01	1.210818e+03	1.114464e+03	6.026770e+01	1.657147e+02
LVA	3.119111e+01	7.680278e+02	7.069099e+02	3.822809e+01	1.051136e+02
LBN	3.814498e+01	9.392549e+02	8.645112e+02	4.675081e+01	1.285481e+02
LSO	3.702324e+01	9.116339e+02	8.390882e+02	4.537600e+01	1.247678e+02
LBR	3.227812e+01	7.947936e+02	7.315458e+02	3.956034e+01	1.087768e+02
LBY	3.535162e+01	8.704733e+02	8.012031e+02	4.332725e+01	1.191345e+02
LTU	4.405698e+01	1.084828e+03	9.984998e+02	5.399661e+01	1.484714e+02
LUX	4.607357e+00	1.134483e+02	1.044203e+02	5.646816e+00	1.552673e+01
MDG	1.817035e+02	4.474138e+03	4.118097e+03	2.226974e+02	6.123384e+02
MWI	1.298314e+02	3.196876e+03	2.942476e+03	1.591224e+02	4.375300e+02
MYS	1.941723e+02	4.781161e+03	4.400688e+03	2.379792e+02	6.543581e+02
MDV	1.590580e+00	3.916531e+01	3.604863e+01	1.949428e+00	5.360233e+00
MLI	2.182151e+02	5.373173e+03	4.945589e+03	2.674463e+02	7.353818e+02
MLT	4.155882e+00	1.023315e+02	9.418819e+01	5.093485e+00	1.400527e+01
MHL	4.723119e-01	1.162987e+01	1.070440e+01	5.788696e-01	1.591685e+00

MRT	2.336902e+01	5.754223e+02	5.296315e+02	2.864127e+01	7.875329e+01
MUS	1.225696e+01	3.018066e+02	2.777896e+02	1.502223e+01	4.130578e+01
MEX	8.536367e+02	2.101935e+04	1.934667e+04	1.046224e+03	2.876744e+03
FSM	1.062702e+00	2.616722e+01	2.408489e+01	1.302457e+00	3.581291e+00
MDA	4.917948e+01	1.210961e+03	1.114595e+03	6.027479e+01	1.657342e+02
MCO	5.938628e-01	1.462286e+01	1.345920e+01	7.278434e-01	2.001310e+00
MNG	2.925556e+01	7.203681e+02	6.630429e+02	3.585586e+01	9.859084e+01
MNE	7.781571e+00	1.916079e+02	1.763602e+02	9.537160e+00	2.622379e+01
MAR	2.565974e+02	6.318271e+03	5.815478e+03	3.144879e+02	8.647296e+02
MOZ	2.880292e+02	7.092228e+03	6.527845e+03	3.530111e+02	9.706547e+02
MMR	4.705165e+02	1.158566e+04	1.066370e+04	5.766690e+02	1.585634e+03
NAM	2.145431e+01	5.282757e+02	4.862367e+02	2.629458e+01	7.230073e+01
NRU	7.293052e-02	1.795789e+00	1.652885e+00	8.938427e-02	2.457749e-01
NPL	2.157620e+02	5.312772e+03	4.889994e+03	2.644398e+02	7.271152e+02
NLD	1.706424e+02	4.201777e+03	3.867409e+03	2.091408e+02	5.750625e+02
NZL	3.779885e+01	9.307320e+02	8.566665e+02	4.632659e+01	1.273816e+02
NIC	3.378419e+01	8.318781e+02	7.656792e+02	4.140620e+01	1.138523e+02
NER	2.013288e+02	4.957377e+03	4.562880e+03	2.467502e+02	6.784752e+02
NGA	1.666404e+03	4.103236e+04	3.776710e+04	2.042360e+03	5.615761e+03
NIU	2.083729e-02	5.130827e-01	4.722528e-01	2.553836e-02	7.022139e-02
PRK	2.708558e+02	6.669363e+03	6.138630e+03	3.319633e+02	9.127806e+02
MKD	2.769508e+01	6.819439e+02	6.276764e+02	3.394332e+01	9.333203e+01
MNP	3.982238e-01	9.805581e+00	9.025275e+00	4.880665e-01	1.342009e+00
NOR	4.475734e+01	1.102073e+03	1.014373e+03	5.485499e+01	1.508317e+02
OMN	1.361254e+01	3.351855e+02	3.085122e+02	1.668365e+01	4.587408e+01
PAK	1.634447e+03	4.024547e+04	3.704283e+04	2.003192e+03	5.508065e+03
PLW	2.338407e-01	5.757928e+00	5.299726e+00	2.865972e-01	7.880401e-01
PSE	1.828820e+01	4.503156e+02	4.144805e+02	2.241417e+01	6.163098e+01
PAN	2.225423e+01	5.479723e+02	5.043660e+02	2.727497e+01	7.499645e+01
PNG	7.324771e+01	1.803600e+03	1.660073e+03	8.977302e+01	2.468438e+02
PRY	3.771897e+01	9.287652e+02	8.548562e+02	4.622869e+01	1.271124e+02
PER	1.724413e+02	4.246073e+03	3.908180e+03	2.113456e+02	5.811249e+02
PHL	7.058679e+02	1.738079e+04	1.599767e+04	8.651177e+02	2.378765e+03
POL	4.641460e+02	1.142880e+04	1.051933e+04	5.688614e+02	1.564166e+03
PRT	1.302389e+02	3.206909e+03	2.951711e+03	1.596219e+02	4.389032e+02
PRI	3.662964e+01	9.019424e+02	8.301679e+02	4.489361e+01	1.234414e+02
QAT	4.782158e+00	1.177525e+02	1.083820e+02	5.861054e+00	1.611581e+01
ROU	3.101689e+02	7.637379e+03	7.029614e+03	3.801456e+02	1.045265e+03
RUS	2.057362e+03	5.065902e+04	4.662769e+04	2.521520e+03	6.933282e+03
RWA	7.701116e+01	1.896268e+03	1.745368e+03	9.438553e+01	2.595266e+02
KNA	5.591340e-01	1.376772e+01	1.267212e+01	6.852794e-01	1.884274e+00
LCA	1.559324e+00	3.839569e+01	3.534025e+01	1.911121e+00	5.254901e+00
VCT	1.135632e+00	2.796301e+01	2.573778e+01	1.391841e+00	3.827066e+00

WSM	1.535014e+00	3.779709e+01	3.478929e+01	1.881326e+00	5.172976e+00
SMR	3.438153e-01	8.465865e+00	7.792171e+00	4.213830e-01	1.158653e+00
STP	1.114795e+00	2.744992e+01	2.526552e+01	1.366302e+00	3.756845e+00
SAU	1.362099e+02	3.353936e+03	3.087038e+03	1.669400e+02	4.590255e+02
SEN	9.673018e+01	2.381815e+03	2.192276e+03	1.185533e+02	3.259794e+02
SRB	1.349678e+02	3.323351e+03	3.058886e+03	1.654177e+02	4.548396e+02
SYC	9.075798e-01	2.234760e+01	2.056923e+01	1.112338e+00	3.058532e+00
SLE	7.409278e+01	1.824408e+03	1.679226e+03	9.080874e+01	2.496917e+02
SGP	2.595400e+01	6.390730e+02	5.882171e+02	3.180945e+01	8.746465e+01
SVK	6.285800e+01	1.547771e+03	1.424603e+03	7.703931e+01	2.118306e+02
SVN	2.340607e+01	5.763344e+02	5.304711e+02	2.868668e+01	7.887813e+01
SLB	6.743179e+00	1.660393e+02	1.528262e+02	8.264498e+00	2.272442e+01
SOM	1.914102e+02	4.713149e+03	4.338088e+03	2.345940e+02	6.450498e+02
ZAF	5.850521e+02	1.440591e+04	1.325952e+04	7.170449e+02	1.971618e+03
KOR	3.635529e+02	8.951868e+03	8.239499e+03	4.455735e+02	1.225168e+03
SSD	7.857743e+01	1.934835e+03	1.780865e+03	9.630517e+01	2.648049e+02
ESP	4.769262e+02	1.174349e+04	1.080897e+04	5.845249e+02	1.607235e+03
LKA	1.523507e+02	3.751376e+03	3.452850e+03	1.867223e+02	5.134198e+02
SDN	2.121364e+02	5.223495e+03	4.807822e+03	2.599961e+02	7.148967e+02
SUR	4.797208e+00	1.181230e+02	1.087231e+02	5.879499e+00	1.616653e+01
SWE	1.034525e+02	2.547342e+03	2.344630e+03	1.267923e+02	3.486336e+02
CHE	7.621934e+01	1.876771e+03	1.727422e+03	9.341508e+01	2.568582e+02
SYR	9.596151e+01	2.362888e+03	2.174855e+03	1.176113e+02	3.233890e+02
TWN	2.114082e+02	5.205566e+03	4.791319e+03	2.591037e+02	7.124429e+02
TJK	5.425568e+01	1.335953e+03	1.229641e+03	6.649622e+01	1.828409e+02
TZA	3.795721e+02	9.346315e+03	8.602557e+03	4.652068e+02	1.279153e+03
THA	5.612548e+02	1.381994e+04	1.272018e+04	6.878787e+02	1.891421e+03
TLS	8.649791e+00	2.129863e+02	1.960374e+02	1.060126e+01	2.914968e+01
TGO	5.817424e+01	1.432441e+03	1.318451e+03	7.129885e+01	1.960464e+02
TKL	1.041865e-02	2.565414e-01	2.361264e-01	1.276918e-02	3.511070e-02
TON	7.420391e-01	1.827145e+01	1.681745e+01	9.094495e-01	2.500662e+00
TTO	1.307656e+01	3.219879e+02	2.963649e+02	1.602674e+01	4.406783e+01
TUN	7.616840e+01	1.875517e+03	1.726268e+03	9.335265e+01	2.566865e+02
TUR	5.081023e+02	1.251115e+04	1.151554e+04	6.227345e+02	1.712298e+03
TKM	3.990920e+01	9.826959e+02	9.044953e+02	4.891306e+01	1.344935e+02
TUV	1.203932e-01	2.964478e+00	2.728572e+00	1.475550e-01	4.057236e-01
UGA	2.578105e+02	6.348144e+03	5.842974e+03	3.159748e+02	8.688181e+02
UKR	8.143144e+02	2.005110e+04	1.845548e+04	9.980307e+02	2.744229e+03
ARE	3.142611e+01	7.738142e+02	7.122359e+02	3.851611e+01	1.059056e+02
GBR	6.873250e+02	1.692420e+04	1.557742e+04	8.423914e+02	2.316276e+03
USA	3.281832e+03	8.080950e+04	7.437887e+04	4.022241e+03	1.105973e+04
VIR	1.442404e+00	3.551672e+01	3.269039e+01	1.767822e+00	4.860881e+00
URY	3.718183e+01	9.155391e+02	8.426826e+02	4.557037e+01	1.253023e+02

UZB	2.409057e+02	5.931892e+03	5.459846e+03	2.952561e+02	8.118490e+02	
VUT	2.492372e+00	6.137039e+01	5.648668e+01	3.054672e+00	8.399259e+00	
VEN	2.099068e+02	5.168596e+03	4.757291e+03	2.572635e+02	7.073830e+02	
VNM	7.168700e+02	1.765170e+04	1.624702e+04	8.786020e+02	2.415842e+03	
YEM	1.869499e+02	4.603321e+03	4.236999e+03	2.291274e+02	6.300185e+02	
ZMB	1.389164e+02	3.420580e+03	3.148378e+03	1.702572e+02	4.681465e+02	
ZWE	1.430133e+02	3.521458e+03	3.241228e+03	1.752783e+02	4.819528e+02	
	C26	C27	C28	C29	C30	
AFG	4.794471e+03	1.590456e+04	5.889715e+03	1.023374e+04	4.451833e+02	
ALB	4.898206e+02	1.624868e+03	6.017148e+02	1.045516e+03	4.548155e+01	
DZA	4.235941e+03	1.405176e+04	5.203595e+03	9.041563e+03	3.933218e+02	
ASM	7.930534e+00	2.630773e+01	9.742179e+00	1.692763e+01	7.363777e-01	
AND	1.293118e+01	4.289622e+01	1.588516e+01	2.760144e+01	1.200705e+00	
AGO	3.818552e+03	1.266717e+04	4.690859e+03	8.150652e+03	3.545658e+02	
ATG	1.273291e+01	4.223853e+01	1.564161e+01	2.717825e+01	1.182295e+00	
ARG	7.425007e+03	2.463076e+04	9.121169e+03	1.584858e+04	6.894377e+02	
ARM	6.160263e+02	2.043526e+03	7.567508e+02	1.314900e+03	5.720018e+01	
AUS	3.544398e+03	1.175773e+04	4.354077e+03	7.565474e+03	3.291097e+02	
AUT	1.754609e+03	5.820513e+03	2.155430e+03	3.745190e+03	1.629215e+02	
AZE	1.672528e+03	5.548228e+03	2.054598e+03	3.569990e+03	1.553000e+02	
BHS	5.643897e+01	1.872234e+02	6.933184e+01	1.204683e+02	5.240554e+00	
BHR	8.948286e+01	2.968389e+02	1.099242e+02	1.910001e+02	8.308795e+00	
BGD	1.819888e+04	6.037062e+04	2.235622e+04	3.884528e+04	1.689829e+03	
BRB	6.284948e+01	2.084888e+02	7.720677e+01	1.341514e+02	5.835793e+00	
BLR	2.659967e+03	8.823833e+03	3.267608e+03	5.677667e+03	2.469872e+02	
BEL	2.377883e+03	7.888081e+03	2.921084e+03	5.075561e+03	2.207947e+02	
BLZ	4.192169e+01	1.390656e+02	5.149824e+01	8.948132e+01	3.892574e+00	
BEN	1.818097e+03	6.031121e+03	2.233422e+03	3.880706e+03	1.688166e+02	
BMU	1.227030e+01	4.070391e+01	1.507332e+01	2.619080e+01	1.139340e+00	
BTN	8.809502e+01	2.922351e+02	1.082194e+02	1.880377e+02	8.179929e+00	
BOL	1.613027e+03	5.350847e+03	1.981505e+03	3.442985e+03	1.497751e+02	
BIH	8.197088e+02	2.719196e+03	1.006962e+03	1.749658e+03	7.611281e+01	
BWA	4.576359e+02	1.518102e+03	5.621778e+02	9.768181e+02	4.249308e+01	
BRA	2.949256e+04	9.783480e+04	3.622981e+04	6.295149e+04	2.738486e+03	
BRN	3.892571e+01	1.291271e+02	4.781786e+01	8.308644e+01	3.614387e+00	
BGR	2.749582e+03	9.121110e+03	3.377695e+03	5.868949e+03	2.553083e+02	
BFA	3.854350e+03	1.278592e+04	4.734834e+03	8.227062e+03	3.578898e+02	
BDI	1.771395e+03	5.876197e+03	2.176051e+03	3.781021e+03	1.644802e+02	
KHM	2.463092e+03	8.170743e+03	3.025758e+03	5.257439e+03	2.287066e+02	
CMR	4.213559e+03	1.397752e+04	5.176101e+03	8.993789e+03	3.912436e+02	
CAN	6.034850e+03	2.001923e+04	7.413446e+03	1.288131e+04	5.603568e+02	
CPV	7.551631e+01	2.505081e+02	9.276719e+01	1.611886e+02	7.011952e+00	
CAF	1.409366e+03	4.675249e+03	1.731320e+03	3.008274e+03	1.308645e+02	

TCD	3.111677e+03	1.032228e+04	3.822506e+03	6.641837e+03	2.889300e+02
CHL	2.449632e+03	8.126093e+03	3.009224e+03	5.228709e+03	2.274568e+02
CHN	2.300419e+05	7.631114e+05	2.825925e+05	4.910216e+05	2.136019e+04
COL	5.202475e+03	1.725802e+04	6.390923e+03	1.110462e+04	4.830678e+02
COM	1.072384e+02	3.557390e+02	1.317359e+02	2.288991e+02	9.957462e+00
COG	7.607365e+02	2.523569e+03	9.345185e+02	1.623783e+03	7.063703e+01
COK	3.634828e+00	1.205771e+01	4.465165e+00	7.758496e+00	3.375064e-01
CRI	5.220935e+02	1.731926e+03	6.413601e+02	1.114402e+03	4.847820e+01
CIV	3.744402e+03	1.242120e+04	4.599770e+03	7.992379e+03	3.476807e+02
HRV	1.125343e+03	3.733067e+03	1.382415e+03	2.402030e+03	1.044920e+02
CUB	2.232732e+03	7.406577e+03	2.742775e+03	4.765738e+03	2.073169e+02
CYP	1.811466e+02	6.009125e+02	2.225276e+02	3.866552e+02	1.682009e+01
CZE	2.459809e+03	8.159855e+03	3.021726e+03	5.250433e+03	2.284019e+02
COD	1.147863e+04	3.807774e+04	1.410080e+04	2.450100e+04	1.065831e+03
DNK	1.172375e+03	3.889087e+03	1.440192e+03	2.502421e+03	1.088591e+02
DJI	1.590953e+02	5.277623e+02	1.954389e+02	3.395870e+02	1.477255e+01
DMA	1.539845e+01	5.108085e+01	1.891606e+01	3.286781e+01	1.429800e+00
DOM	1.530968e+03	5.078635e+03	1.880701e+03	3.267831e+03	1.421557e+02
ECU	1.988251e+03	6.595568e+03	2.442445e+03	4.243897e+03	1.846160e+02
EGY	1.333198e+04	4.422578e+04	1.637752e+04	2.845694e+04	1.237920e+03
SLV	8.800029e+02	2.919208e+03	1.081030e+03	1.878355e+03	8.171133e+01
GNQ	1.581481e+02	5.246200e+02	1.942753e+02	3.375651e+02	1.468460e+01
ERI	9.378297e+02	3.111036e+03	1.152067e+03	2.001786e+03	8.708075e+01
EST	3.463000e+02	1.148771e+03	4.254085e+02	7.391731e+02	3.215516e+01
SWZ	2.485562e+02	8.245282e+02	3.053361e+02	5.305400e+02	2.307930e+01
ETH	1.169981e+04	3.881143e+04	1.437250e+04	2.497309e+04	1.086368e+03
FJI	1.576855e+02	5.230854e+02	1.937070e+02	3.365777e+02	1.464164e+01
FIN	1.193854e+03	3.960337e+03	1.466577e+03	2.548266e+03	1.108535e+02
FRA	1.251079e+04	4.150169e+04	1.536875e+04	2.670413e+04	1.161671e+03
GAB	2.520148e+02	8.360013e+02	3.095848e+02	5.379224e+02	2.340045e+01
GMB	2.769078e+02	9.185783e+02	3.401644e+02	5.910563e+02	2.571185e+01
GEO	1.097564e+03	3.640917e+03	1.348290e+03	2.342737e+03	1.019126e+02
DEU	2.052517e+04	6.808755e+04	2.521392e+04	4.381072e+04	1.905833e+03
GHA	4.380607e+03	1.453166e+04	5.381309e+03	9.350351e+03	4.067546e+02
GRC	2.788398e+03	9.249872e+03	3.425377e+03	5.951801e+03	2.589124e+02
GRL	1.002331e+01	3.325005e+01	1.231303e+01	2.139464e+01	9.306995e-01
GRD	1.707268e+01	5.663470e+01	2.097275e+01	3.644142e+01	1.585257e+00
GUM	2.440842e+01	8.096935e+01	2.998426e+01	5.209947e+01	2.266407e+00
GTM	2.073086e+03	6.876987e+03	2.546660e+03	4.424976e+03	1.924932e+02
GIN	2.257647e+03	7.489227e+03	2.773382e+03	4.818919e+03	2.096304e+02
GNB	2.929451e+02	9.717784e+02	3.598653e+02	6.252877e+02	2.720097e+01
GUY	1.437630e+02	4.769007e+02	1.766041e+02	3.068603e+02	1.334889e+01
HTI	2.019026e+03	6.697656e+03	2.480250e+03	4.309586e+03	1.874736e+02

HND	1.136402e+03	3.769752e+03	1.396000e+03	2.425635e+03	1.055188e+02
HUN	2.816750e+03	9.343922e+03	3.460205e+03	6.012317e+03	2.615450e+02
ISL	4.430085e+01	1.469579e+02	5.442089e+01	9.455961e+01	4.113487e+00
IND	1.941383e+05	6.440094e+05	2.384871e+05	4.143858e+05	1.802642e+04
IDN	3.773928e+04	1.251914e+05	4.636040e+04	8.055402e+04	3.504223e+03
IRN	8.284765e+03	2.748281e+04	1.017733e+04	1.768373e+04	7.692692e+02
IRQ	3.641745e+03	1.208066e+04	4.473663e+03	7.773260e+03	3.381487e+02
IRL	6.835900e+02	2.267653e+03	8.397487e+02	1.459114e+03	6.347371e+01
ISR	9.870651e+02	3.274363e+03	1.212549e+03	2.106878e+03	9.165243e+01
ITA	1.375884e+04	4.564180e+04	1.690190e+04	2.936807e+04	1.277556e+03
JAM	4.117049e+02	1.365737e+03	5.057544e+02	8.787790e+02	3.822823e+01
JPN	3.017509e+04	1.000989e+05	3.706826e+04	6.440835e+04	2.801862e+03
JOR	6.636976e+02	2.201665e+03	8.153121e+02	1.416654e+03	6.162663e+01
KAZ	3.090661e+03	1.025256e+04	3.796689e+03	6.596978e+03	2.869786e+02
KEN	6.348327e+03	2.105912e+04	7.798533e+03	1.355042e+04	5.894642e+02
KIR	2.476089e+01	8.213859e+01	3.041725e+01	5.285181e+01	2.299135e+00
KWT	2.095423e+02	6.951088e+02	2.574100e+02	4.472655e+02	1.945673e+01
KGZ	7.748132e+02	2.570265e+03	9.518109e+02	1.653829e+03	7.194410e+01
LAO	9.357590e+02	3.104166e+03	1.149523e+03	1.997366e+03	8.688847e+01
LVA	5.935564e+02	1.968988e+03	7.291480e+02	1.266939e+03	5.511378e+01
LBN	7.258862e+02	2.407961e+03	8.917070e+02	1.549395e+03	6.740106e+01
LSO	7.045399e+02	2.337150e+03	8.654843e+02	1.503832e+03	6.541897e+01
LBR	6.142419e+02	2.037607e+03	7.545588e+02	1.311092e+03	5.703450e+01
LBY	6.727296e+02	2.231626e+03	8.264074e+02	1.435933e+03	6.246528e+01
LTU	8.383896e+02	2.781166e+03	1.029911e+03	1.789532e+03	7.784739e+01
LUX	8.767646e+01	2.908466e+02	1.077052e+02	1.871443e+02	8.141064e+00
MDG	3.457757e+03	1.147032e+04	4.247644e+03	7.380539e+03	3.210648e+02
MWI	2.470648e+03	8.195809e+03	3.035040e+03	5.273567e+03	2.294082e+02
MYS	3.695034e+03	1.225743e+04	4.539125e+03	7.887005e+03	3.430968e+02
MDV	3.026821e+01	1.004078e+02	3.718265e+01	6.460711e+01	2.810508e+00
MLI	4.152560e+03	1.377517e+04	5.101167e+03	8.863588e+03	3.855796e+02
MLT	7.908505e+01	2.623466e+02	9.715117e+01	1.688061e+02	7.343322e+00
MHL	8.987939e+00	2.981543e+01	1.104114e+01	1.918464e+01	8.345614e-01
MRT	4.447047e+02	1.475206e+03	5.462927e+02	9.492167e+02	4.129238e+01
MUS	2.332458e+02	7.737396e+02	2.865283e+02	4.978603e+02	2.165769e+01
MEX	1.624442e+04	5.388715e+04	1.995528e+04	3.467352e+04	1.508351e+03
FSM	2.022286e+01	6.708472e+01	2.484256e+01	4.316545e+01	1.877763e+00
MDA	9.358691e+02	3.104532e+03	1.149658e+03	1.997601e+03	8.689870e+01
MCO	1.130101e+01	3.748852e+01	1.388260e+01	2.412187e+01	1.049338e+00
MNG	5.567235e+02	1.846803e+03	6.839009e+02	1.188319e+03	5.169371e+01
MNE	1.480807e+02	4.912238e+02	1.819081e+02	3.160764e+02	1.374981e+01
MAR	4.882962e+03	1.619811e+04	5.998422e+03	1.042262e+04	4.534000e+02
MOZ	5.481101e+03	1.818230e+04	6.733199e+03	1.169934e+04	5.089392e+02

MMR	8.953771e+03	2.970209e+04	1.099916e+04	1.911171e+04	8.313888e+02
NAM	4.082683e+02	1.354337e+03	5.015328e+02	8.714436e+02	3.790913e+01
NRU	1.387843e+00	4.603853e+00	1.704881e+00	2.962335e+00	1.288661e-01
NPL	4.105880e+03	1.362032e+04	5.043824e+03	8.763950e+03	3.812452e+02
NLD	3.247267e+03	1.077207e+04	3.989070e+03	6.931252e+03	3.015201e+02
NZL	7.192995e+02	2.386111e+03	8.836156e+02	1.535336e+03	6.678945e+01
NIC	6.429020e+02	2.132680e+03	7.897660e+02	1.372266e+03	5.969568e+01
NER	3.831219e+03	1.270919e+04	4.706419e+03	8.177690e+03	3.557420e+02
NGA	3.171112e+04	1.051944e+05	3.895518e+04	6.768700e+04	2.944488e+03
NIU	3.965267e-01	1.315387e+00	4.871089e-01	8.463814e-01	3.681888e-02
PRK	5.154297e+03	1.709820e+04	6.331740e+03	1.100178e+04	4.785943e+02
MKD	5.270281e+02	1.748295e+03	6.474219e+02	1.124935e+03	4.893639e+01
MNP	7.578066e+00	2.513850e+01	9.309193e+00	1.617529e+01	7.036498e-01
NOR	8.517174e+02	2.825377e+03	1.046283e+03	1.817980e+03	7.908492e+01
OMN	2.590421e+02	8.593129e+02	3.182174e+02	5.529221e+02	2.405296e+01
PAK	3.110298e+04	1.031770e+05	3.820812e+04	6.638893e+04	2.888020e+03
PLW	4.449911e+00	1.476156e+01	5.466445e+00	9.498280e+00	4.131897e-01
PSE	3.480183e+02	1.154471e+03	4.275193e+02	7.428407e+02	3.231471e+01
PAN	4.234905e+02	1.404833e+03	5.202323e+02	9.039353e+02	3.932257e+01
PNG	1.393880e+03	4.623876e+03	1.712296e+03	2.975219e+03	1.294266e+02
PRY	7.177794e+02	2.381069e+03	8.817484e+02	1.532091e+03	6.664832e+01
PER	3.281501e+03	1.088563e+04	4.031124e+03	7.004323e+03	3.046988e+02
PHL	1.343243e+04	4.455901e+04	1.650092e+04	2.867136e+04	1.247248e+03
POL	8.832544e+03	2.929994e+04	1.085024e+04	1.885296e+04	8.201324e+02
PRT	2.478402e+03	8.221532e+03	3.044566e+03	5.290119e+03	2.301282e+02
PRI	6.970499e+02	2.312304e+03	8.562834e+02	1.487844e+03	6.472351e+01
QAT	9.100288e+01	3.018812e+02	1.117915e+02	1.942445e+02	8.449934e+00
ROU	5.902410e+03	1.957990e+04	7.250752e+03	1.259862e+04	5.480593e+02
RUS	3.915091e+04	1.298742e+05	4.809451e+04	8.356713e+04	3.635298e+03
RWA	1.465497e+03	4.861450e+03	1.800273e+03	3.128084e+03	1.360765e+02
KNA	1.064013e+01	3.529621e+01	1.307076e+01	2.271123e+01	9.879734e-01
LCA	2.967342e+01	9.843477e+01	3.645199e+01	6.333754e+01	2.755280e+00
VCT	2.161071e+01	7.168857e+01	2.654744e+01	4.612778e+01	2.006629e+00
WSM	2.921080e+01	9.690015e+01	3.588369e+01	6.235009e+01	2.712324e+00
SMR	6.542691e+00	2.170388e+01	8.037297e+00	1.396529e+01	6.075116e-01
STP	2.121418e+01	7.037318e+01	2.606033e+01	4.528140e+01	1.969810e+00
SAU	2.592029e+03	8.598463e+03	3.184150e+03	5.532654e+03	2.406789e+02
SEN	1.840743e+03	6.106244e+03	2.261241e+03	3.929043e+03	1.709194e+02
SRB	2.568392e+03	8.520051e+03	3.155113e+03	5.482200e+03	2.384841e+02
SYC	1.727094e+01	5.729240e+01	2.121630e+01	3.686461e+01	1.603667e+00
SLE	1.409961e+03	4.677223e+03	1.732051e+03	3.009544e+03	1.309198e+02
SGP	4.938961e+02	1.638387e+03	6.067212e+02	1.054215e+03	4.585996e+01
SVK	1.196167e+03	3.968010e+03	1.469418e+03	2.553203e+03	1.110683e+02

SVN 4.454096e+02 1.477545e+03 5.471586e+02 9.507214e+02 4.135783e+01
 SLB 1.283205e+02 4.256737e+02 1.576339e+02 2.738984e+02 1.191500e+01
 SOM 3.642472e+03 1.208307e+04 4.474556e+03 7.774812e+03 3.382162e+02
 ZAF 1.113335e+04 3.693233e+04 1.367664e+04 2.376399e+04 1.033770e+03
 KOR 6.918290e+03 2.294984e+04 8.498698e+03 1.476700e+04 6.423872e+02
 SSD 1.495302e+03 4.960323e+03 1.836888e+03 3.191704e+03 1.388440e+02
 ESP 9.075747e+03 3.010672e+04 1.114900e+04 1.937207e+04 8.427147e+02
 LKA 2.899183e+03 9.617376e+03 3.561470e+03 6.188270e+03 2.691992e+02
 SDN 4.036884e+03 1.339144e+04 4.959067e+03 8.616679e+03 3.748387e+02
 SUR 9.128926e+01 3.028312e+02 1.121433e+02 1.948558e+02 8.476525e+00
 SWE 1.968667e+03 6.530602e+03 2.418388e+03 4.202095e+03 1.827976e+02
 CHE 1.450429e+03 4.811465e+03 1.781763e+03 3.095922e+03 1.346773e+02
 SYR 1.826116e+03 6.057721e+03 2.243272e+03 3.897821e+03 1.695612e+02
 TWN 4.023028e+03 1.334547e+04 4.942045e+03 8.587103e+03 3.735521e+02
 TJK 1.032467e+03 3.424974e+03 1.268323e+03 2.203789e+03 9.586819e+01
 TZA 7.223131e+03 2.396108e+04 8.873176e+03 1.541768e+04 6.706928e+02
 THA 1.068049e+04 3.543008e+04 1.312033e+04 2.279738e+04 9.917207e+02
 TLS 1.646026e+02 5.460316e+02 2.022043e+02 3.513423e+02 1.528393e+01
 TGO 1.107036e+03 3.672340e+03 1.359927e+03 2.362956e+03 1.027922e+02
 TKL 1.982634e-01 6.576933e-01 2.435545e-01 4.231907e-01 1.840944e-02
 TON 1.412076e+01 4.684238e+01 1.734649e+01 3.014058e+01 1.311161e+00
 TTO 2.488425e+02 8.254782e+02 3.056879e+02 5.311513e+02 2.310589e+01
 TUN 1.449459e+03 4.808250e+03 1.780573e+03 3.093853e+03 1.345873e+02
 TUR 9.669018e+03 3.207475e+04 1.187780e+04 2.063840e+04 8.978019e+02
 TKM 7.594588e+02 2.519331e+03 9.329489e+02 1.621055e+03 7.051839e+01
 TUV 2.291043e+00 7.600012e+00 2.814407e+00 4.890203e+00 2.127313e-01
 UGA 4.906049e+03 1.627469e+04 6.026782e+03 1.047190e+04 4.555437e+02
 UKR 1.549613e+04 5.140487e+04 1.903605e+04 3.307630e+04 1.438870e+03
 ARE 5.980284e+02 1.983822e+03 7.346415e+02 1.276484e+03 5.552901e+01
 GBR 1.307957e+04 4.338847e+04 1.606745e+04 2.791817e+04 1.214483e+03
 USA 6.245216e+04 2.071708e+05 7.671868e+04 1.333034e+05 5.798900e+03
 VIR 2.744846e+01 9.105399e+01 3.371876e+01 5.858840e+01 2.548685e+00
 URY 7.075579e+02 2.347161e+03 8.691918e+02 1.510273e+03 6.569921e+01
 UZB 4.584355e+03 1.520755e+04 5.631602e+03 9.785250e+03 4.256733e+02
 VUT 4.742900e+01 1.573349e+02 5.826364e+01 1.012366e+02 4.403948e+00
 VEN 3.994456e+03 1.325069e+04 4.906946e+03 8.526117e+03 3.708991e+02
 VNM 1.364180e+04 4.525354e+04 1.675812e+04 2.911825e+04 1.266688e+03
 YEM 3.557594e+03 1.180150e+04 4.370287e+03 7.593639e+03 3.303349e+02
 ZMB 2.643533e+03 8.769317e+03 3.247420e+03 5.642589e+03 2.454613e+02
 ZWE 2.721495e+03 9.027937e+03 3.343191e+03 5.808997e+03 2.527003e+02

C31

AFG 3.168436e+02
 ALB 3.236990e+01

DZA 2.799330e+02
ASM 5.240911e-01
AND 8.545596e-01
AGO 2.523498e+02
ATG 8.414573e-01
ARG 4.906832e+02
ARM 4.071023e+01
AUS 2.342323e+02
AUT 1.159537e+02
AZE 1.105293e+02
BHS 3.729781e+00
BHR 5.913494e+00
BGD 1.202677e+03
BRB 4.153422e+00
BLR 1.757845e+02
BEL 1.571429e+02
BLZ 2.770404e+00
BEN 1.201493e+02
BMU 8.108853e-01
BTN 5.821778e+00
BOL 1.065972e+02
BIH 5.417063e+01
BWA 3.024297e+01
BRA 1.949022e+03
BRN 2.572414e+00
BGR 1.817067e+02
BFA 2.547155e+02
BDI 1.170630e+02
KHM 1.627739e+02
CMR 2.784539e+02
CAN 3.988144e+02
CPV 4.990511e+00
CAF 9.313826e+01
TCD 2.056359e+02
CHL 1.618844e+02
CHN 1.520237e+04
COL 3.438066e+02
COM 7.086876e+00
COG 5.027343e+01
COK 2.402084e-01
CRI 3.450266e+01
CIV 2.474496e+02
HRV 7.436852e+01

CUB 1.475506e+02
CYP 1.197111e+01
CZE 1.625570e+02
COD 7.585679e+02
DNK 7.747667e+01
DJI 1.051385e+01
DMA 1.017610e+00
DOM 1.011743e+02
ECU 1.313940e+02
EGY 8.810466e+02
SLV 5.815518e+01
GNQ 1.045125e+01
ERI 6.197668e+01
EST 2.288531e+01
SWZ 1.642589e+01
ETH 7.731843e+02
FJI 1.042068e+01
FIN 7.889608e+01
FRA 8.267784e+02
GAB 1.665445e+01
GMB 1.829951e+01
GEO 7.253275e+01
DEU 1.356410e+03
GHA 2.894933e+02
GRC 1.842719e+02
GRL 6.623929e-01
GRD 1.128252e+00
GUM 1.613036e+00
GTM 1.370003e+02
GIN 1.491971e+02
GNB 1.935934e+01
GUY 9.500606e+00
HTI 1.334278e+02
HND 7.509934e+01
HUN 1.861455e+02
ISL 2.927631e+00
IND 1.282967e+04
IDN 2.494008e+03
IRN 5.475005e+02
IRQ 2.406655e+02
IRL 4.517519e+01
ISR 6.523041e+01
ITA 9.092558e+02

JAM 2.720760e+01
JPN 1.994127e+03
JOR 4.386060e+01
KAZ 2.042470e+02
KEN 4.195305e+02
KIR 1.636329e+00
KWT 1.384765e+01
KGZ 5.120370e+01
LAO 6.183983e+01
LVA 3.922530e+01
LBN 4.797035e+01
LSO 4.655967e+01
LBR 4.059231e+01
LBY 4.445748e+01
LTU 5.540516e+01
LUX 5.794118e+00
MDG 2.285066e+02
MWI 1.632733e+02
MYS 2.441871e+02
MDV 2.000281e+00
MLI 2.744228e+02
MLT 5.226352e+00
MHL 5.939699e-01
MRT 2.938841e+01
MUS 1.541410e+01
MEX 1.073516e+03
FSM 1.336432e+00
MDA 6.184711e+01
MCO 7.468298e-01
MNG 3.679119e+01
MNE 9.785945e+00
MAR 3.226916e+02
MOZ 3.622197e+02
MMR 5.917119e+02
NAM 2.698050e+01
NRU 9.171593e-02
NPL 2.713380e+02
NLD 2.145964e+02
NZL 4.753506e+01
NIC 4.248631e+01
NER 2.531869e+02
NGA 2.095636e+03
NIU 2.620455e-02

PRK 3.406228e+02
MKD 3.482876e+01
MNP 5.007981e-01
NOR 5.628592e+01
OMN 1.711885e+01
PAK 2.055447e+03
PLW 2.940733e-01
PSE 2.299886e+01
PAN 2.798646e+01
PNG 9.211483e+01
PRY 4.743461e+01
PER 2.168587e+02
PHL 8.876850e+02
POL 5.837006e+02
PRT 1.637857e+02
PRI 4.606469e+01
QAT 6.013945e+00
ROU 3.900620e+02
RUS 2.587296e+03
RWA 9.684766e+01
KNA 7.031555e-01
LCA 1.960974e+00
VCT 1.428148e+00
WSM 1.930402e+00
SMR 4.323751e-01
STP 1.401944e+00
SAU 1.712948e+02
SEN 1.216459e+02
SRB 1.697327e+02
SYC 1.141354e+00
SLE 9.317757e+01
SGP 3.263923e+01
SVK 7.904894e+01
SVN 2.943499e+01
SLB 8.480084e+00
SOM 2.407136e+02
ZAF 7.357496e+02
KOR 4.571967e+02
SSD 9.881737e+01
ESP 5.997727e+02
LKA 1.915931e+02
SDN 2.667784e+02
SUR 6.032870e+00

```

SWE 1.300998e+02
CHE 9.585189e+01
SYR 1.206792e+02
TWN 2.658627e+02
TJK 6.823083e+01
TZA 4.773421e+02
THA 7.058225e+02
TLS 1.087780e+01
TGO 7.315874e+01
TKL 1.310228e-02
TON 9.331732e-01
TTO 1.644481e+01
TUN 9.578783e+01
TUR 6.389791e+02
TKM 5.018900e+01
TUV 1.514041e-01
UGA 3.242173e+02
UKR 1.024065e+03
ARE 3.952083e+01
GBR 8.643659e+02
USA 4.127165e+03
VIR 1.813937e+00
URY 4.675911e+01
UZB 3.029581e+02
VUT 3.134356e+00
VEN 2.639745e+02
VNM 9.015210e+02
YEM 2.351043e+02
ZMB 1.746985e+02
ZWE 1.798506e+02

```

```

# Residus standardisés
resu.chi2$stdres["FRA",]

```

C1	C2	C3	C4	C5	C6
-45.447538	227.806013	68.950443	41.436698	-82.895192	-31.026403
C7	C8	C9	C10	C11	C12
-58.122819	-44.583213	-91.343050	13.795041	-103.164088	-76.848280
C13	C14	C15	C16	C17	C18
-18.702024	-135.101330	47.922999	35.115077	-8.006848	-116.136351
C19	C20	C21	C22	C23	C24
62.313584	316.084172	-25.790440	-27.112221	-18.360607	-21.007024

C25	C26	C27	C28	C29	C30
50.617634	-75.193396	-99.645968	-38.200367	19.275712	-14.132541
C31					
-28.261450					

`resu.chi2$stdres`

	C1	C2	C3	C4	C5
AFG	20.1809321	-59.5831619	-23.535869987	7.51786328	-40.6224335
ALB	-8.5238559	9.9895002	8.210742667	-9.67179030	-16.3197646
DZA	-18.8668478	-7.1114257	0.002450364	-26.10422000	-48.0674279
ASM	-0.4515643	-1.1596590	0.387235447	0.26032212	-2.0761522
AND	-1.6001045	4.4829677	1.563412639	-1.65146248	-2.6511108
AGO	64.6547205	-56.9798157	-26.285759163	78.48047838	194.3012076
ATG	-0.9552307	-0.3055684	0.584341044	0.20043202	-2.6307084
ARG	-26.5582819	20.1654607	16.857031393	-5.82562071	-63.7243560
ARM	-10.5920208	1.3510148	-1.291110248	-11.04876820	-18.3028139
AUS	-24.7836821	94.4679743	40.775631554	-21.34674835	-43.9563270
AUT	-16.9807539	50.5330123	22.152788481	-18.62395827	-30.9040243
AZE	-14.7860017	-28.2773780	-7.519175738	-17.24247214	-30.1714824
BHS	-2.4415518	-1.7951997	-0.022646593	-1.70304222	-5.5386801
BHR	-3.4934673	-4.3550359	-1.175940181	-3.41937234	-6.9741723
BGD	-21.3221942	-58.9077621	-13.928847439	9.50120946	-99.0920502
BRB	-2.6735092	1.6343844	2.061812669	-1.43332780	-5.8447881
BLR	-20.8277401	1.3779502	-6.143888249	-21.80117410	-38.0651471
BEL	-19.6346691	60.7627916	22.860392819	-5.75678505	-35.9859781
BLZ	-2.1838324	-1.1847123	-0.196143915	1.41881081	-4.7734622
BEN	85.6414979	-36.1969928	-15.431921013	22.50500716	395.8661199
BMU	-1.5586793	3.8290049	2.229620781	-1.60870769	-2.5824761
BTN	1.1142992	-3.5639055	0.062009135	-2.67904852	-6.9198737
BOL	-10.3470199	-17.2182685	3.655535145	30.27063579	-29.6292022
BIH	-12.0342103	-0.9297891	5.079545238	-12.77086236	-21.1147045
BWA	3.4597691	-19.0447602	-8.319717416	9.09540605	-14.8757895
BRA	-50.6514864	75.2850282	6.791272357	26.17695371	-127.2418443
BRN	-2.0526375	-4.0174243	0.353832071	-2.51468235	-4.5997245
BGR	-21.6785687	-9.6429392	5.821907884	-23.64960051	-38.7024995
BFA	163.8037006	-55.9625243	-24.217821682	114.30892948	536.6954078
BDI	47.7548312	-39.8379741	-18.228490234	87.18382602	206.5544067
KHM	-16.2332181	-27.1451249	-11.178495857	0.65809507	-35.0482357
CMR	68.2872743	-56.5829351	-21.781461674	2.71545143	431.9150444
CAN	-32.0618206	99.9172607	54.004037523	-25.77274613	-57.4165091
CPV	0.8086266	-0.3318952	0.446651246	-0.97006931	-4.9851229

CAF	37.5496631	-40.6695337	-18.214887605	55.45594106	127.7209837
TCD	162.4537123	-54.8094134	-24.001973617	70.71118077	136.0775428
CHL	-16.8869582	26.2040098	21.833126363	2.73167899	-36.5259532
CHN	-203.5882209	18.3384164	30.951111547	-159.48938926	-393.3946479
COL	-20.3410716	80.2790606	9.711278536	7.28960323	-52.2423931
COM	10.6501751	-5.0778769	-2.549187438	9.18692348	15.4302705
COG	10.9721839	-22.8283525	-9.812580522	9.14746727	84.3039245
COK	-0.8483393	-0.4228908	0.859839201	-0.87556813	-1.4055591
CRI	-6.7111984	22.4396584	4.858504037	-8.29332409	-16.8490473
CIV	56.1872168	-55.5198807	-22.412165934	-1.07686304	615.3110610
HRV	-13.7895214	16.6862994	8.219971376	-15.21751276	-24.7430415
CUB	-16.5506108	27.3126677	9.299278384	-18.70847403	-34.8682391
CYP	-5.4861292	5.0936926	5.301981472	-5.04367948	-9.9232626
CZE	-20.3602673	31.4879982	9.567992971	-16.88398938	-36.6019078
COD	82.2254856	-91.3529752	-44.671051916	80.94438995	656.5023331
DNK	-13.1985089	28.4112824	13.048226687	-10.55472117	-25.2552997
DJI	14.0730672	-10.8950157	-4.796909357	29.93699208	1.2572551
DMA	-1.1708856	-0.4137191	0.620897697	-0.68717883	-2.8929962
DOM	-4.8954374	-9.9287260	-0.824085829	7.97767411	-28.6891961
ECU	-13.8792478	-1.0885846	5.558452459	15.54538478	-32.8697237
EGY	-36.6470729	-84.6560921	-25.386346545	-37.77759953	-85.6021632
SLV	-9.2466285	14.7899852	2.365767077	7.98625743	-21.8780292
GNQ	4.2762684	-10.3530140	-4.624670666	-0.38282156	74.5621895
ERI	37.4660856	-29.1362686	-12.687856345	61.03681811	-7.7437518
EST	-7.5537687	13.4941707	2.167296493	-8.31230326	-13.7213095
SWZ	3.4365522	-15.5890612	-6.740191406	5.52582610	-10.8405426
ETH	188.2415593	-76.3172710	-39.186102581	132.77275755	86.9764839
FJI	-3.2510403	-9.7689111	-0.545540830	-2.45710534	-9.2582932
FIN	-14.3364833	41.9933945	19.291646274	-15.11581155	-25.4858236
FRA	-45.4475383	227.8060130	68.950443384	41.43669785	-82.8951924
GAB	5.1645260	-9.5846357	-3.827784825	2.08014567	50.1254577
GMB	21.3541821	-11.5932430	-3.820378404	7.60826001	40.2820043
GEO	-13.3168487	6.1655071	-1.564300464	-14.56101949	-24.4354607
DEU	-60.8693397	133.5748412	85.472839158	-54.32150726	-106.5378268
GHA	89.6315829	-52.7157098	-23.090977741	34.87972052	399.8451512
GRC	-22.2401192	53.2250312	24.974337417	-23.86424819	-38.9753548
GRL	-0.6958014	-1.2616299	0.555314752	-0.76299358	-2.3340707
GRD	-1.8385731	-1.5050527	-0.075318515	-0.83870191	-3.0462142
GUM	-1.2846217	0.8708561	0.962279816	-0.94055491	-3.6423426
GTM	-8.2700592	-16.6341836	-8.891629382	67.88963892	-33.5962937
GIN	133.8485997	-39.0943021	-16.121746165	58.39012410	292.7337320
GNB	27.5987316	-16.2016019	-6.469031357	4.92150744	34.2221837
GUY	-4.2059377	-8.4221920	-2.819395317	3.43378423	-6.8937590

HTI	30.1141340	-38.2413932	-13.623999526	25.78285631	-19.3044011
HND	-7.7053786	-12.4660944	3.074761884	-1.33540071	-24.8236952
HUN	-21.5145626	17.0136867	2.541928952	-22.99933613	-39.1734638
ISL	-2.6225705	11.9236863	6.459946430	-2.39940857	-4.9070508
IND	-19.7861082	-289.8029428	-60.991809614	-75.32860211	-241.2910297
IDN	-32.1694448	-122.0320080	-36.370623139	142.17649272	-140.9577016
IRN	-26.2835389	25.8311472	6.810813928	-36.39938107	-67.3370432
IRQ	-10.8977481	-24.2431404	-7.895834238	-23.98064992	-44.5576874
IRL	-10.7736553	24.3911503	13.947969398	-11.17378862	-19.2809470
ISR	-11.9730701	39.9894770	17.767811312	-10.81219496	-23.1717308
ITA	-48.9155276	225.3024907	60.484094401	-39.68120019	-86.9774409
JAM	-6.6936526	9.5554255	2.184682649	-2.31090409	-14.9614672
JPN	-72.9179827	630.6177446	80.908189320	-57.43303353	-129.7096605
JOR	-4.1924889	-4.4756127	-0.637802033	-10.30569930	-18.9981808
KAZ	-19.2404214	-29.3483942	-6.404857957	-20.79686179	-41.0386778
KEN	89.3186938	-64.7127821	-29.864689829	90.33017119	80.1399383
KIR	2.7755432	-4.4779198	-0.915689086	3.42993121	-3.6685474
KWT	-4.5703924	8.5043388	-0.688089519	-6.49732667	-10.6728501
KGZ	-9.3074509	-10.2404739	-7.840273098	-12.07998279	-20.5279489
LAO	-1.6587126	-21.0727236	-7.894599763	0.32571991	-21.5285240
LVA	-10.1020430	8.1247362	0.765988767	-10.74237246	-17.9657427
LBN	-9.1427274	8.7957623	0.416662795	-11.15863914	-19.8688371
LSO	1.9658374	-27.1350617	-12.118622287	3.79997670	-19.5743381
LBR	28.3231447	-19.2969783	-8.390673822	17.13252401	235.8402762
LBY	-7.8012276	6.1430242	-0.052409286	-10.39629044	-19.1270855
LTU	-11.6407832	12.2405195	1.390918215	-12.99985449	-21.3541133
LUX	-3.9255579	11.3857869	5.928357590	-2.43126958	-6.9034141
MDG	53.9078157	-56.8275550	-26.058006513	169.85395779	94.9790569
MWI	85.5488088	-40.8977187	-19.617039296	67.99346719	158.9284240
MYS	-16.2676307	-19.2420974	-3.006699608	-19.34497513	-44.7704239
MDV	-1.6275307	1.1088620	0.607395044	-0.53851182	-4.0560691
MLI	190.9276848	-59.6581129	-26.433186767	475.86125478	336.4981992
MLT	-3.4495595	11.0700789	5.750415099	-3.83821890	-6.5564394
MHL	-0.5811132	-2.6699098	-0.439148328	-0.64713763	-2.2102337
MRT	13.8457882	-10.5688883	-4.296347057	19.26131510	114.4628439
MUS	-6.0573166	0.4002941	-0.912336468	-4.72246333	-11.2604502
MEX	-47.7933337	11.3676607	0.765564222	71.67904401	-94.5963767
FSM	-0.9971570	-3.7624233	-0.456012221	-0.60586515	-3.3153661
MDA	-12.1414826	-0.2532221	-7.180684020	-13.91172672	-22.5623244
MCO	-1.4958488	3.2926687	1.940139167	-1.54386047	-2.4783761
MNG	-8.2049703	-19.5691022	-8.935351747	-9.44743721	-17.3991193
MNE	-5.2295587	-1.1192631	1.820731055	-5.40908161	-8.9718622
MAR	-18.2100308	-20.8916296	-2.323488170	-25.41255130	-51.6220676

MOZ	50.3743969	-69.6321970	-32.557103343	70.46661573	326.7734786
MMR	-12.4291828	-49.4675635	-19.064845128	-11.45649557	-65.7418324
NAM	2.1804963	-14.0369743	-6.375896407	11.18481523	-1.8532450
NRU	-0.5242006	-1.3921335	-0.650500665	-0.54102563	-0.8685144
NPL	-12.0118997	-42.4694189	-10.503549324	14.98031194	-47.2997038
NLD	-21.5830353	66.1505472	29.971876375	-18.13307108	-42.0683177
NZL	-10.8430554	35.5104692	12.590124927	-11.09676058	-19.7784315
NIC	-7.3674139	-5.6769773	1.674991116	0.86588062	-18.5355618
NER	256.2862903	-61.2072478	-27.211159504	58.22098603	483.4311594
NGA	496.6793850	-153.1426022	-65.062303995	-14.45783996	1359.9378110
NIU	-0.2801969	-0.7441263	-0.347707087	-0.28919025	-0.4642403
PRK	-24.9884251	-21.6101259	-6.745414658	-19.51455594	-53.0046472
MKD	-9.7256642	-10.5269065	1.619058534	-10.45000945	-16.9285192
MNP	-1.2249195	-1.6687407	-0.195457593	-0.46956319	-2.0294908
NOR	-11.5205795	44.2242704	15.313832638	-5.83410230	-21.5232948
OMN	-5.1988093	-10.1865838	-2.090705476	-2.22681229	-11.8669376
PAK	153.7434598	-156.2415429	-53.913108213	101.82195920	-99.9513842
PLW	-0.9386495	-1.6658007	-0.300524899	-0.96877697	-1.5551883
PSE	-4.9138495	-6.8032539	-1.309981356	-7.16125913	-13.7553187
PAN	-5.2092228	20.3606023	5.470817440	3.94401303	-15.1741779
PNG	19.6128125	-34.7468797	-10.903800762	-5.13710692	6.5984855
PRY	-6.4469800	9.3983464	-0.230717086	12.52225708	-19.7575101
PER	-19.8822740	41.1440447	14.984019263	23.36899365	-41.8341832
PHL	-11.5946851	-58.4658870	-25.931812626	15.01621583	-85.3798101
POL	-38.7193824	60.5798706	14.758120579	-40.40053934	-69.5435579
PRT	-20.5410382	56.9038176	21.130236926	-15.62874953	-36.7402627
PRI	-10.9816225	35.7466630	9.870131857	-3.17720408	-19.4699520
QAT	-3.0618334	-7.5243400	-1.636316323	-4.15185645	-7.0331615
ROU	-32.5028898	9.9891790	6.812743505	-33.22914395	-56.7798315
RUS	-76.2617268	-20.6320287	-23.116092763	-87.26633061	-148.3183968
RWA	41.6583802	-27.6645756	-13.621822588	47.70721286	93.2450752
KNA	-0.7594744	-1.7153831	-0.124367927	1.18455126	-2.4048167
LCA	-1.5951748	0.1280488	1.008441417	-0.09214227	-4.0160182
VCT	-1.5829985	-1.3654895	0.178409058	1.62971499	-3.4272431
WSM	-1.5696691	-1.8678867	0.388985822	-0.86308257	-3.9845891
SMR	-1.1381680	3.7976008	0.725931204	-1.17469934	-1.8857577
STP	0.4008449	-2.7915128	-0.564075319	1.20945337	0.1806502
SAU	-14.6897754	-30.9509431	-7.995521985	-20.56760329	-37.5478330
SEN	63.1869044	-25.3873925	-9.504600033	1.96794883	184.1495612
SRB	-21.3709724	-15.7232298	2.237426339	-22.43513571	-37.4027339
SYC	-0.7629468	-1.1329841	0.337479650	-0.85578373	-3.0638511
SLE	81.3218619	-33.1255748	-14.138848601	51.53133182	400.8802299
SGP	-9.3829351	31.7155362	7.172933113	-10.01141988	-16.3875438

	C6	C7	C8	C9	C10
SVK	-14.0912204	8.5661489	0.038209280	-15.25849968	-25.5105255
SVN	-8.7508146	30.3245897	6.143420868	-9.48676316	-15.5620606
SLB	-1.6532220	-11.6928203	-3.197153286	-0.18129706	2.1910732
SOM	148.1005519	-64.1040137	-29.110279123	249.07894180	44.2513750
ZAF	0.5636777	-70.4303214	-35.967586745	-4.92123204	-72.0888299
KOR	-35.0223684	95.4806487	35.935781624	-29.92148229	-61.4653195
SSD	97.7291054	-35.4317301	-16.789261358	105.63413435	152.9440733
ESP	-38.8655848	155.4418259	65.090966065	-33.15329920	-70.5017054
LKA	-11.5223849	3.4596864	-0.679972354	-18.12733460	-39.7439162
SDN	-4.7617456	-36.4972652	-14.734672047	-1.80985490	3.6539389
SUR	-2.5978671	-1.3397772	-0.505345169	-0.95357012	-7.0442201
SWE	-18.1809230	58.4339867	27.214672292	-14.12672644	-32.7378313
CHE	-15.3553959	72.7169634	25.278234816	-12.04068393	-28.0942766
SYR	-7.7171621	-18.0159888	-5.083680764	-14.92680788	-31.5284068
TWN	-24.5276599	45.5242688	23.943270073	-24.82491678	-46.8396596
TJK	-5.5192282	-25.8746201	-5.432216349	-13.06017294	-23.6991075
TZA	62.3631575	-63.2238550	-30.847235878	138.65688846	212.7790569
THA	-23.4415860	60.0545682	15.014122431	-26.58227537	-76.5194275
TLS	-0.2549341	-8.2268615	-2.679185164	5.19140292	-9.4592079
TGO	27.6074216	-28.8449094	-12.295400809	0.30232288	199.8276944
TKL	-0.1981291	-0.5261767	-0.245866019	-0.20448837	-0.3282674
TON	1.3312697	-0.2623541	0.350948377	0.60286990	-2.7703718
TTO	-5.4458336	-0.1173358	-0.273408888	-3.63930482	-11.6309170
TUN	-11.9084535	13.3728341	2.204728875	-15.82763718	-28.0848762
TUR	-35.8419176	58.9785252	16.933715776	-22.04377627	-72.7877033
TKM	-8.0059749	-14.1490933	-8.074581153	-11.78663976	-20.3234006
TUV	-0.6735100	-0.6361027	0.368734892	-0.69512739	-1.1158956
UGA	96.0300328	-59.8049630	-27.879050793	90.97974760	391.8095932
UKR	-48.4707799	-32.6090690	-16.322203968	-55.08363602	-92.3732664
ARE	-5.8987444	-23.9819397	-6.795109827	-10.60719984	-18.0333277
GBR	-45.9102374	112.7745573	63.230870927	-49.75342591	-84.7789133
USA	-103.5852467	212.6386189	99.637710850	-63.12600470	-189.2388037
VIR	-2.3312613	-1.3629160	1.979011684	-0.73587430	-3.8625177
URY	-10.6512460	17.6613650	9.235610695	-1.19613038	-19.6162429
UZB	-24.3404016	-65.7210662	-22.781896752	-29.82717409	-50.0124928
VUT	-1.0979535	-5.7319221	-0.361241335	0.64898593	-4.8780308
VEN	-19.0832044	12.4622867	-2.622988289	-9.93557015	-32.1618856
VNM	-37.7507956	7.3506633	2.000019292	-35.97669861	-85.9050517
YEM	-8.4260105	-45.2365488	-20.340921768	9.66549805	73.2521836
ZMB	67.8516586	-47.8664110	-21.215345320	57.24842000	89.7276946
ZWE	39.5695391	-48.1251311	-20.721420372	97.08881554	15.9718985
AFG	24.052505740	82.92252275	116.44846008	-5.390810e+01	-4.7248661

ALB	-6.205896410	-8.67051596	-8.64311803	-1.883575e+01	-3.2341573
DZA	-10.835727845	-26.42925288	-2.14628135	-5.096892e+01	3.4441312
ASM	1.943729112	0.15601422	-0.26357124	-2.409882e+00	-0.9219339
AND	-1.603453649	-2.12281991	-1.45855341	-2.086632e+00	-1.1772494
AGO	1.354097155	-9.58877331	57.87619675	2.704145e+02	-16.2921691
ATG	0.933886324	0.28538879	-1.44732869	-7.241842e-01	-1.1681896
ARG	-23.700349399	6.22400873	-24.19943791	-4.940385e+01	-25.2320364
ARM	-7.075787258	-4.13031910	-9.27184236	-2.033566e+01	-6.8936017
AUS	-19.159187221	-25.95099994	-23.64220552	-4.960387e+01	38.5784452
AUT	-15.677918454	-21.89106278	-16.82502578	-3.487878e+01	-3.4824210
AZE	-1.052139697	-8.62137415	-14.66187211	-3.394634e+01	-10.4760622
BHS	3.846139757	20.78665271	-1.72969790	1.190621e+01	-1.6443687
BHR	-1.360613775	-0.71205620	-2.52902297	-7.216511e+00	-2.1258868
BGD	66.954976163	-29.83286606	66.81329927	-1.131455e+02	-37.6652023
BRB	-0.693721985	2.42556449	-2.59135590	-3.039689e+00	-2.2092078
BLR	5.178499974	-4.76784313	-20.31779053	-3.740751e+01	-2.9366033
BEL	-18.204829844	-23.10345352	-19.54432727	-4.040553e+01	-1.9012306
BLZ	6.158232167	26.23315806	-0.71534311	9.131089e+00	-1.6468029
BEN	1.273776125	10.78706933	59.35170136	2.014271e+01	-12.8917232
BMU	-0.275862766	-1.09324475	-1.42079286	-9.636800e-01	-0.2726905
BTN	0.854606840	-4.26782423	3.04754062	-4.110194e+00	-2.4203815
BOL	8.120281486	2.43136729	18.03875116	-1.273535e+01	-8.8850552
BIH	-8.993003494	-11.89726102	-11.53015659	-2.442580e+01	-8.1994110
BWA	0.464174050	24.79955674	-2.77833398	2.932543e+02	-6.0026399
BRA	3.608719019	560.66358059	-42.29974892	-3.985991e+01	-36.5818738
BRN	2.994572621	-2.04152198	-1.34079912	-4.387480e+00	-1.0610362
BGR	-16.527218644	-25.05866408	-20.91489133	-4.388085e+01	-13.1525989
BFA	4.942355796	22.19814413	57.65286195	3.472945e+00	-17.4923857
BDI	-1.374358822	-19.74995971	59.46036985	2.177988e+01	-12.6239679
KHM	25.461121004	-12.28495690	3.65586822	-8.600022e+00	-13.9792702
CMR	-7.825109560	-14.25630895	85.01539629	3.689847e+02	-17.5552176
CAN	-26.355035542	-33.81506754	-30.79034819	-6.275362e+01	74.3137105
CPV	4.938255619	10.78127914	-1.81630575	7.893892e-02	-2.4926461
CAF	1.080957314	-5.15927675	40.49171943	1.434084e+02	-11.1549597
TCD	0.122106970	4.83783053	121.20792241	5.227393e+01	-17.5161690
CHL	-5.873378008	-1.86967416	-17.64314468	-3.058142e+01	-11.8229474
CHN	57.397976282	-267.60662877	-207.61087618	-3.691905e+02	-93.4058919
COL	-2.593556979	361.97327307	-12.98847246	-2.143608e+01	-18.2616798
COM	-1.572406837	4.93111010	2.01235543	-8.632784e+00	-2.7989698
COG	-5.031748365	-1.11963235	23.98780779	1.604942e+02	-6.4783521
COK	0.331352376	-1.12547121	-0.77329210	-3.858463e-01	-0.6241511
CRI	2.824701794	24.09378871	-7.10347778	-1.196851e+01	-3.9972254
CIV	-5.907483908	28.27683807	67.07747755	2.126151e+02	-18.1596765

HRV	-9.792490406	-17.41975307	-13.46521062	-2.843704e+01	-4.5953678
CUB	-9.208225469	-4.70591180	-16.40534640	-3.199648e+01	-13.4729527
CYP	-1.650169417	-5.28225403	-5.45945055	-1.107721e+01	-0.5388942
CZE	-15.136374774	-25.69063949	-19.98733197	-4.203010e+01	-7.8489073
COD	-6.533771126	-17.26860458	191.16482686	2.189121e+01	-29.0125061
DNK	-13.168829434	-18.07788425	-13.82232792	-2.848223e+01	6.4993605
DJI	-0.802615941	7.30572640	21.17272975	7.422040e+01	-3.4012885
DMA	0.546329491	1.16353141	-0.96105924	-1.845022e+00	-1.2846608
DOM	0.917839513	63.88966816	-1.26278447	7.855273e+00	-8.6676388
ECU	9.323400993	46.71993521	-3.49411915	-6.019979e+00	-10.0053330
EGY	-32.705842635	-60.93236321	-30.91118375	-9.878311e+01	-35.8257781
SLV	2.946974105	157.87757259	-8.36509418	1.834304e+00	-8.5793722
GNQ	-3.100070384	0.04176903	5.91824829	1.892376e+02	-2.8998254
ERI	-1.887410574	23.62468200	57.57364188	2.723550e+01	-8.4291851
EST	-3.214461009	-5.66603342	-7.54901024	-1.375712e+01	14.9700920
SWZ	0.399576890	16.13877916	-2.31417060	2.366619e+02	-4.3849306
ETH	-11.950637392	49.62014712	131.40683609	2.003312e+02	-29.4123533
FJI	4.984318450	-2.65531448	-2.13767637	-9.895410e+00	-3.3796995
FIN	-8.631177946	-16.30472440	-13.87815810	-2.941061e+01	14.4822774
FRA	-31.026403293	-58.12281918	-44.58321330	-9.134305e+01	13.7950408
GAB	-3.531746830	-1.19949965	6.03114577	6.982298e+01	-3.2687351
GMB	-2.411879371	-8.28560581	36.52562681	6.269055e+01	-4.8962962
GEO	-9.337404017	-13.12264112	-12.02384445	-2.753858e+01	-8.4467837
DEU	-57.062164983	-77.89263054	-58.00383961	-1.201436e+02	-11.1364871
GHA	-10.984550941	-19.14447536	29.96071731	2.060501e+02	-19.0194831
GRC	-7.643758370	-27.00139360	-21.25529541	-4.474514e+01	-6.5099637
GRL	0.722722156	0.82689270	-1.28412842	-1.959136e+00	0.8977431
GRD	1.428472992	0.03956127	-1.07707022	-2.098968e+00	-0.6116796
GUM	0.532602473	-0.84345094	-1.50304977	-2.545390e+00	-0.9976718
GTM	-0.167504229	209.23048002	8.98456111	-2.153445e+01	-0.2463351
GIN	3.040740160	7.41619825	96.63725732	6.028406e+01	-14.4733683
GNB	0.001224609	8.04848092	15.03426636	5.494499e+01	-4.8882948
GUY	6.489346104	18.40652465	0.08965962	7.665120e+00	-3.4147640
HTI	52.947083933	107.24850078	67.84822384	1.177742e+02	-11.8582768
HND	0.336975904	148.33396988	4.97321416	-2.565433e+01	-1.5908640
HUN	-18.126661393	-26.73039167	-21.08516815	-4.464159e+01	-13.7565544
ISL	-2.291044740	-3.41628125	-2.69969692	-5.517427e+00	4.2612951
IND	87.207085687	-110.82287227	61.47315045	-2.756051e+02	-93.3208333
IDN	-28.981080266	-96.34337741	-11.93588544	-1.341243e+02	-55.1914987
IRN	-19.221578913	-12.34748761	-31.20878475	-6.275295e+01	68.5968970
IRQ	3.965884623	100.75536383	-10.05912352	-5.010415e+01	9.9399652
IRL	-7.783621390	-13.34899887	-10.41840575	-2.197139e+01	14.8660127
ISR	-10.643739062	-8.55303323	-12.03920072	-2.549747e+01	-4.1474169

ITA	-45.826627978	-62.50252630	-47.47019853	-9.463568e+01	-23.8421099
JAM	-7.605639893	23.35943131	-4.81615376	7.099665e+00	-5.7382282
JPN	24.961698695	-96.73598839	-70.78486596	-1.494451e+02	-48.8511026
JOR	-0.208494346	8.11722243	-3.15055459	-2.080722e+01	-6.4153354
KAZ	12.015851474	21.00321436	-20.17154748	-4.205351e+01	23.0806147
KEN	-18.217770226	51.78118624	84.89494170	6.957352e+02	-22.6087846
KIR	0.497213529	-1.22228625	1.95983952	-3.780983e+00	-1.0137349
KWT	-2.875931135	-3.59291153	-5.35899509	-1.214234e+01	0.1258961
KGZ	9.035383739	1.78183148	-6.22520973	-1.657337e+01	-2.1836019
LAO	15.009578677	13.19594124	13.07760341	-1.166422e+01	-8.3161992
LVA	0.416247363	-4.85453714	-9.68097883	-1.510102e+01	-1.5668767
LBN	-7.417504090	-2.22026243	-9.36940871	-2.037338e+01	5.6141052
LSO	-2.586400955	32.70142254	3.21822744	4.602536e+02	-7.8844595
LBR	-3.235781870	-5.88500013	61.14849753	5.795555e+01	-7.2507409
LBY	-3.576560773	-6.75755620	-7.94655672	-1.830917e+01	15.3587411
LTU	0.158321102	-8.25278644	-11.57735251	-2.228422e+01	8.3944423
LUX	-3.453642585	-4.25160956	-3.79802988	-7.759464e+00	1.8395189
MDG	-9.494009354	-19.73325884	75.06109292	7.704689e-01	-16.7233794
MWI	-6.037119585	-17.92515953	37.17570458	2.976435e+02	-13.8844145
MYS	1.578787114	-19.71142209	-14.29727971	-2.234068e+01	-12.9691794
MDV	5.735309688	-0.14509667	0.91681550	-4.492227e+00	-0.6880721
MLI	5.986566838	23.32254153	109.21438946	2.775050e+01	-20.2285814
MLT	-2.952299232	-4.29015885	-3.60713592	-7.476823e+00	0.1873057
MHL	3.171218981	0.50771700	0.43471602	-9.812129e-01	-0.9814740
MRT	-4.810999202	3.74102460	50.12434757	-1.686658e+01	-6.1789069
MUS	-1.353003226	-5.43959678	-5.06089066	-5.994574e+00	-2.1933162
MEX	-14.995207012	337.86314736	-32.13120640	-6.259398e+01	-27.5954447
FSM	4.005510615	0.76157908	-0.72352390	8.034042e+00	-0.7913554
MDA	-1.345184527	-6.45568547	-11.92755025	-1.985978e+01	-7.2155227
MCO	-0.828930952	-1.98450633	-1.36352051	-2.523538e+00	-1.1005450
MNG	4.659037781	6.90829209	-5.27175887	-1.944088e+01	-5.1303326
MNE	-3.760360266	-4.23806836	-4.93602157	-1.031645e+01	-3.7324100
MAR	-19.787872282	-32.76797691	-8.28210889	-5.150842e+01	-5.0535517
MOZ	-11.253335176	-1.95339078	39.31247118	1.002381e+03	-18.6968354
MMR	30.573224994	-43.32159584	4.86379896	-2.115769e+01	-24.1437031
NAM	-0.871885169	25.07883298	1.23422724	2.044134e+02	-5.7066304
NRU	1.386724756	0.75352618	-0.47782786	-1.781423e-04	-0.3856716
NPL	23.353758444	-23.61476457	40.26699763	-2.830835e+01	-19.2902380
NLD	-22.277369827	-29.36590805	-22.84022788	-4.780814e+01	-9.2114594
NZL	-7.761882954	-12.14454610	-10.32770961	-2.255912e+01	-1.3600192
NIC	3.974956626	11.62730462	-5.11346021	4.575694e+00	-6.8535728
NER	4.832507917	17.59668179	115.15545515	-2.571014e+01	-19.6024075
NGA	-40.055209386	19.34635668	175.35908669	4.015480e+02	-54.3106902

NIU	-0.280783342	-0.37173040	-0.25540963	-5.388644e-01	-0.2061500
PRK	10.428423445	-22.76753977	-22.89620992	-4.895561e+01	-9.1082690
MKD	-8.079704706	-10.28278858	-9.20570334	-1.954622e+01	-5.7830603
MNP	1.227261912	0.23518590	-1.11655864	-1.924371e+00	-0.9012135
NOR	-9.002905821	-15.36196836	-11.75658844	-2.441322e+01	15.5255162
OMN	8.918772883	-6.32010401	-4.37621295	-6.543543e+00	-2.2255201
PAK	-34.670509268	26.37793892	157.28243718	-1.259773e+02	-43.2494852
PLW	1.194977143	0.37311189	-0.85561312	-6.793742e-01	-0.6905952
PSE	-2.523031093	17.08078456	-4.91456855	-1.507517e+01	-4.7949773
PAN	4.616248458	39.70147912	-1.97449353	1.355083e+01	-3.9108399
PNG	6.222142180	22.91756895	35.91050871	8.991629e+01	-10.1781775
PRY	3.272356166	36.63183651	-0.33795705	2.337230e+00	-7.0587401
PER	1.512092062	0.21363602	-2.24499839	7.497833e-01	-9.8945523
PHL	41.688431060	161.81163808	-7.36091378	-4.593595e+01	-29.5225555
POL	-23.201481610	-44.43740506	-37.89059648	-7.902298e+01	-23.9818352
PRT	-17.963865935	-23.72124820	-19.96450271	-3.113758e+01	-13.1749749
PRI	-9.557016156	29.42236529	-10.24298019	-1.220730e+01	-2.2656070
QAT	4.719135654	-0.80015024	-2.31305175	-7.665788e+00	-0.5553691
ROU	-15.825145174	-37.00131254	-30.39892035	-6.370673e+01	-19.2607880
RUS	-7.688121731	76.71113581	-78.98057936	-5.816710e+01	26.6033165
RWA	-4.598555984	-2.04401796	38.72650142	6.234911e+01	-11.0196657
KNA	-0.073401131	3.30748102	-0.56447558	8.857532e+00	-1.0678803
LCA	1.292596487	6.81195430	-1.30098695	-3.135670e+00	-1.2212680
VCT	1.318925348	5.70123634	-1.35327642	1.130499e+00	-1.5218979
WSM	3.008038919	0.59947053	-1.73435963	-1.768922e+00	-1.2028784
SMR	-1.140550255	-1.50997991	-1.03748148	-1.724657e+00	-0.8373876
STP	-0.586619379	1.35774195	1.35520777	-3.941487e+00	-0.8431062
SAU	9.340412877	-16.56074082	-8.75213531	-2.766780e+01	-4.5843686
SEN	-5.905057524	-17.90100531	84.57150713	7.656549e+00	-12.6281350
SRB	-18.172675011	-23.10462811	-20.23560603	-4.228916e+01	-12.2544493
SYC	4.651043772	-0.39957670	-1.09022064	-2.413438e+00	-0.6237770
SLE	1.673888948	-15.44747748	76.41186255	5.638176e+01	-11.4841524
SGP	-8.188178047	-11.20135347	-8.79315758	-1.709786e+01	-5.0722370
SVK	-7.153982894	-14.60017034	-13.82030682	-2.947380e+01	-9.7338742
SVN	-7.277316402	-10.92394884	-8.44446484	-1.795103e+01	-2.8475728
SLB	19.209075309	-1.56378697	8.29349526	-5.396257e+00	-2.6274554
SOM	5.941191779	37.34352293	100.55631966	1.109337e+01	-18.6196132
ZAF	-14.861669542	248.21832423	-10.50738286	1.535713e+03	-31.3520233
KOR	-18.428467542	-33.88934213	-32.70065814	-6.940815e+01	-22.9157051
SSD	-3.672435141	15.76371656	27.39742512	1.018088e+02	-11.8749772
ESP	-32.554061226	-50.42733458	-38.39661847	-7.333900e+01	-7.8203671
LKA	14.830604762	-7.44714289	-17.08067651	-4.529350e+01	-10.0195926
SDN	16.224230584	-20.72393814	68.31792678	4.204133e+01	-2.4924645

SUR	2.340765067	3.11401141	-1.02664716	4.251814e+00	-2.1666468
SWE	-15.075437729	-21.59368902	-17.84382969	-3.746458e+01	18.9582390
CHE	-13.914692223	-20.07408721	-15.19649792	-3.145597e+01	4.5785492
SYR	-11.842236472	-13.25296487	-14.44849303	-3.620711e+01	-3.0297360
TWN	-10.258772551	-28.25933984	-25.02716176	-5.116219e+01	4.2477344
TJK	29.217785930	-6.54015620	-8.80123556	-2.529038e+01	-8.2358983
TZA	-4.250005634	19.42091160	126.21313738	3.071770e+02	-20.9336132
THA	52.647351307	5.66373947	-35.32362213	1.098493e+02	-19.5219055
TLS	6.393853649	-2.65111154	6.75426180	1.104930e+01	-3.7231159
TGO	-4.886483484	9.04152371	27.49448505	9.462463e+01	-9.2403721
TKL	-0.198543789	-0.26285307	-0.18060187	-3.810346e-01	-0.1457701
TON	1.321551362	-1.30979857	-0.20720353	-2.583704e+00	-1.2302083
TTO	-1.750835685	24.88469017	-5.30082253	2.007518e+00	-3.2236591
TUN	-9.408766210	-18.98903662	-11.87458469	-2.798057e+01	0.2430079
TUR	-28.061541687	-30.30795456	-32.86979476	-8.174772e+01	-21.5359081
TKM	-1.744838253	-3.01397145	-6.24135887	-1.906462e+01	-1.6896776
TUV	0.813230514	0.23422174	-0.61392883	-5.107739e-01	-0.4955234
UGA	-7.095528841	16.63874383	46.61398525	2.926347e+02	-20.9626570
UKR	6.710073183	-1.10448155	-49.20012881	-4.344131e+01	-4.4534626
ARE	5.123993377	-8.36549762	-8.70683592	-1.316113e+01	92.8060568
GBR	-45.335089857	-62.79723957	-45.77235337	-9.597417e+01	33.7971995
USA	-80.988216606	-27.28366785	-94.04450085	-1.852358e+02	742.9771849
VIR	-0.186435216	5.37844808	-2.12502939	-2.670208e+00	-0.5463510
URY	-5.850288073	-2.09870712	-9.86170510	-1.486580e+01	-6.8685355
UZB	22.981908767	-15.44376149	-19.16690597	-4.777260e+01	-13.6906711
VUT	7.395554741	-3.32198215	0.08100688	-2.617482e+00	-1.8100485
VEN	-9.522168757	258.70337955	-6.18714115	-1.935911e+01	-16.3579966
VNM	65.898402175	-50.72166627	-42.65995267	-3.509419e+01	-7.4512520
YEM	5.247544095	-11.76038831	46.60893520	-4.419886e+01	-6.1376812
ZMB	-7.206219973	23.32505427	17.85865013	4.770857e+02	-13.2737821
ZWE	12.460542510	16.14408926	40.26259517	4.275100e+02	-9.6357134
	C11	C12	C13	C14	C15
AFG	-16.1305276	-55.6216409	89.5878430	189.9962119	-20.33177161
ALB	-21.7019499	75.2054952	-18.0279569	-22.3302450	-6.12652510
DZA	-58.4330647	155.6788372	-33.0641577	26.2642942	-19.88341179
ASM	-2.4634968	0.2383525	-1.1338872	-2.4390370	-0.10644042
AND	-3.6077146	-2.7267625	-1.3623704	-4.5872817	-0.60490698
AGO	131.9803564	-169.6260729	55.6659091	160.4404772	-14.06584341
ATG	-3.5799504	0.2410962	0.6981726	-3.6417294	3.90848096
ARG	-78.0952641	-48.4654780	171.9991633	-79.3339820	-6.85558950
ARM	-21.9096158	50.0064786	-21.0409061	-26.5647695	-1.87370717
AUS	-58.1889390	-17.3405271	-37.0703845	-69.4065333	4.18332653
AUT	-40.8381041	43.4999268	-41.4646899	-51.2430456	17.31350832

AZE	-25.2025225	124.3030592	-17.8113215	-15.9452841	-0.62388564
BHS	-6.5878464	-0.2218311	-2.2124295	-7.3138376	3.59075124
BHR	-8.3058516	-3.8131374	-7.7407034	-9.2347387	-1.85141567
BGD	84.9782390	100.1643195	-2.9663506	70.2675691	-44.55107132
BRB	-7.6967286	-2.7101014	2.9765310	-8.0648009	-0.27434793
BLR	-45.9067272	207.3990505	-60.3278862	-63.3431589	134.98165948
BEL	-47.2558468	-20.6267806	20.2951247	-59.4170894	10.51699513
BLZ	-4.1354364	-8.9653017	2.7169695	-1.1109691	2.11562398
BEN	19.9374399	-123.0431712	87.7990727	185.8714477	-11.73528008
BMU	-3.5143143	1.6903447	-1.5252340	-4.2367090	-0.55022409
BTN	2.1987114	-5.2272235	-1.6845355	8.3579128	-1.52551422
BOL	-0.9728459	-70.8448538	56.8403398	25.7947022	9.45011347
BIH	-24.4617237	67.0411869	-32.0237790	-34.4358036	-2.33109559
BWA	17.0714971	-52.2571367	19.1115455	4.9757507	-4.39831201
BRA	-141.5047962	-108.6932163	114.1756415	-79.8162573	87.82534161
BRN	-3.1566336	-4.7674802	0.1157830	-4.9655192	-1.48259814
BGR	-50.3137992	218.2936450	-50.5500913	-64.5493436	-14.53126836
BFA	61.7507425	-189.6847350	187.4869311	173.2650485	-16.59043599
BDI	169.0166295	-123.8372581	46.8606979	116.0605200	-10.32756368
KHM	74.4054163	-49.5268019	99.3764930	9.3441573	-11.45776355
CMR	37.7678563	-187.3630473	90.3549045	113.6426645	-16.66944463
CAN	-76.1750513	-43.8110801	-31.4180825	-89.7607683	17.76719898
CPV	-1.6836596	-3.4892815	11.1811589	-2.4889007	-1.72034375
CAF	196.8559377	-122.0067725	51.9257362	67.8469935	-9.59720049
TCD	71.8007726	-193.1141735	165.2840911	181.5929987	-16.72352442
CHL	-40.3090203	-49.5958378	-5.6456956	-53.4464002	10.14245534
CHN	-448.9254035	741.0732354	-482.9148856	-596.0348022	-79.40505191
COL	-59.6665193	-34.6440243	-28.8393882	-44.2046338	-22.50243747
COM	21.9810542	-15.6678571	15.5519581	16.5874006	-2.33430873
COG	44.7822891	-53.2345923	11.5923698	23.7629173	-5.01259516
COK	-1.9127289	0.2776691	0.9076145	-2.4320733	-0.71503911
CRI	-20.8325148	-19.5132881	-12.7439775	-20.6945274	1.26310638
CIV	56.6821555	-182.5607112	106.7619067	227.9052231	-14.62434395
HRV	-32.0606409	68.0384729	-37.2803901	-41.3120223	8.78997191
CUB	-46.5433288	34.2606473	37.2856277	-57.2372179	14.55548669
CYP	-13.1253555	7.1123020	-10.9623969	-15.6620518	-3.25956954
CZE	-48.6779975	83.3239011	-24.8038804	-61.2025776	5.40196628
COD	332.9391989	-258.1119911	138.2290011	189.9596184	-23.51935530
DNK	-33.5643863	-25.9027582	0.7041808	-41.0898994	51.00162263
DJI	22.6464770	-30.3949238	14.7446276	24.6622783	-2.18620349
DMA	-3.1579488	0.2756235	-0.3681533	-2.7295769	1.25461279
DOM	-19.7119281	27.4034014	-21.3289715	18.7284744	-4.35583746
ECU	-27.9636870	-65.6038584	20.7032810	-17.4696751	4.21388125

EGY	-108.5749001	156.3313809	-39.3468660	-110.3830147	-40.05365141
SLV	-26.7144222	-41.5664103	11.3262566	-24.6301403	67.69905900
GNQ	3.0200636	-37.0908254	1.9181393	13.2087624	-3.22795296
ERI	124.8287641	-80.4621656	57.4518760	44.7408151	-6.07301310
EST	-17.3581879	47.7185045	-18.9376215	-23.2622612	23.78111430
SWZ	25.3518615	-46.2985620	9.1802024	2.5509017	-4.21686082
ETH	173.7288865	-303.2566660	144.8079934	445.5198273	-24.69003313
FJI	-9.3532907	4.9666002	-6.3338752	-6.3195291	-4.28388972
FIN	-33.0592850	62.4395236	-35.1176213	-43.2052585	30.79163180
FRA	-103.1640885	-76.8482796	-18.7020244	-135.1013296	47.92299936
GAB	14.4962777	-26.8815037	7.7221357	5.6828291	-2.75308709
GMB	27.5146826	-31.7338286	27.5955243	34.5515029	-3.99129241
GEO	-27.8681588	120.1143679	-32.5448759	-35.4643084	-9.03859465
DEU	-141.6659060	102.0877572	-87.9755532	-178.0676702	65.92303042
GHA	91.1363474	-133.6788455	77.2709137	112.2439582	-15.51668897
GRC	-50.3924375	75.5214510	2.0983202	-65.2846515	-17.69784859
GRL	-2.2108239	-3.1913531	-1.9846684	-3.0127683	6.41578365
GRD	-3.8987991	-0.1122166	1.9722432	-3.1091808	1.03954187
GUM	-4.1317009	6.0750309	-2.4106713	-2.8508700	-0.77020837
GTM	-36.3347335	-111.7042358	86.7792802	-7.5465807	86.91326057
GIN	46.6381016	-134.7073497	132.3547945	126.3311032	-13.32970724
GNB	25.4537434	-42.5131825	21.2156757	51.6612943	-4.07570637
GUY	-6.8460822	5.2975916	-2.1956198	-2.2925342	1.52599379
HTI	-15.9334793	-33.5361463	33.5556154	48.5289704	5.95010389
HND	-16.9634672	-24.0581865	-26.1874661	-4.0310554	18.22870825
HUN	-52.1360627	107.3707265	-62.1657812	-65.7148830	7.36708313
ISL	-6.5245894	1.7737938	1.0488025	-8.0027850	0.71843372
IND	584.7321944	-336.1386817	52.3884124	267.8031565	-26.27622215
IDN	209.9087578	109.4495152	-126.9563198	-89.8860025	-64.89963606
IRN	-82.4460770	156.1917001	-54.9062745	-50.7431668	-26.88421313
IRQ	-44.7071386	122.2747093	-51.8097839	20.8729891	-20.13738318
IRL	-25.0687220	-2.9081725	7.8974730	-31.0633937	-0.08775193
ISR	-30.6893011	-28.8881006	-7.1083049	-34.2510622	-6.25223006
ITA	-114.6399229	62.7089102	-98.7830700	-146.2867274	-36.19761263
JAM	-19.8578115	1.2202307	-13.3479185	-9.8777342	-6.42469512
JPN	-153.6297493	-173.3486184	231.8464750	-222.2192825	-55.53781271
JOR	-24.7060989	18.4301722	-9.0052809	16.8782740	-7.89940623
KAZ	-41.7534992	98.7349755	-30.8962647	-47.7125126	61.06275717
KEN	135.0088558	-227.4336627	74.1042037	85.2617932	-18.51848557
KIR	9.1358333	-2.1756182	-2.3554090	0.9956024	-1.32877226
KWT	-12.6937887	18.8779059	11.3793128	-6.9108573	-3.58170031
KGZ	-13.1061189	61.6369358	-21.4241496	2.6199034	28.29197460
LAO	39.0364538	-9.9639653	33.5453010	41.7696797	-5.35458952

LVA	-22.2313432	84.6174885	-25.7844808	-30.1864386	22.15564459
LBN	-25.4493684	59.0876163	-15.8151076	-22.3203064	-8.61820247
LSO	73.1160233	-81.2388533	12.7119133	0.8010963	-6.53092948
LBR	18.7987276	-65.9054053	18.9663522	41.7855386	-5.84334063
LBY	-22.7281240	28.0737981	-15.3988002	-22.1668402	-7.25483564
LTU	-23.7089459	89.9063563	-29.7492669	-36.1359838	18.42840630
LUX	-9.1767524	-0.8772369	-3.4418100	-11.4248052	4.48621780
MDG	153.7923293	-96.8624103	78.3323898	97.7979762	-14.84332923
MWI	111.3811349	-142.6300416	58.1192070	103.6577787	-11.87438645
MYS	-27.6390033	8.1617492	163.9970775	-60.0161149	-15.07735821
MDV	-2.9269171	3.0214050	-3.6085215	4.0513759	-1.57726422
MLI	24.5341852	-218.0584180	72.2119314	321.6611349	-20.05256127
MLT	-8.8076354	9.3585873	2.1924055	-10.3403319	-2.43311889
MHL	-0.2889688	1.7503852	0.3080570	-1.1158912	-0.23226516
MRT	2.1313558	-43.6081296	29.3483347	45.9604287	-5.62713927
MUS	-14.3227895	-6.2383687	-9.1213600	-14.8581136	7.58239744
MEX	-107.8499788	-208.0111836	-62.8165055	-84.2616734	47.33005676
FSM	-2.0194214	1.2333608	-0.6427309	-4.1115332	-0.49708837
MDA	-24.5730502	91.5161823	-24.9508691	-35.2695214	26.91779681
MCO	-3.0695721	-1.3101460	0.3143812	-4.2883947	-1.26080493
MNG	-7.6533510	15.6791480	-18.9019584	-10.6573689	57.36278410
MNE	-11.8742632	42.4227928	-13.9449279	-14.6567049	-2.80575948
MAR	-12.8012357	185.7957302	-39.8021664	-29.5302369	-22.00408223
MOZ	211.0803955	-225.5394291	39.5977071	172.6623003	-18.48828808
MMR	59.4039131	-1.8869261	21.2716586	17.2166958	-24.61396282
NAM	21.6349655	-39.9419430	21.4880846	9.6713950	-3.87244565
NRU	-0.3170461	0.3986476	0.6703688	0.5650113	-0.44183254
NPL	54.8713537	-83.7083691	2.4188618	24.7120886	-14.58204149
NLD	-55.4754119	-42.5545067	-5.3095834	-68.3969932	1.15835106
NZL	-26.2310999	9.3985298	-15.8951645	-31.1642463	-4.37572621
NIC	-19.6971479	-21.7040067	-9.1422990	-12.1724370	31.32093840
NER	34.7785454	-213.5139242	179.9890296	217.1646013	-18.88028257
NGA	81.4872957	-583.9441247	432.2520667	672.7959749	-49.10303043
NIU	-0.6317527	0.9232591	0.1973083	-0.8032863	-0.23616933
PRK	-26.0743022	99.3591645	-36.9068619	-70.7554824	-12.64775237
MKD	-21.3500111	79.9037890	-28.3088182	-25.2940464	-5.46562195
MNP	-2.3916804	-0.1586920	-1.2287236	-2.9217287	0.91071332
NOR	-27.7529304	-5.0471182	6.4242354	-35.7671031	11.14492216
OMN	-15.0093122	19.1610674	-5.8180875	-3.3781739	-4.70741351
PAK	188.1793963	-253.0918179	14.2126712	937.3553357	-34.10505022
PLW	-1.6333583	-0.5840497	2.9414388	-2.3060454	-0.79115879
PSE	-17.3530930	22.1309298	-8.5246172	11.5480868	-5.99390655
PAN	-11.3399966	-18.9038007	-2.1747073	-12.0486886	-3.55974693

PNG	4.5182223	-50.7841873	64.8857162	47.2943625	-6.91417065
PRY	-17.6807947	-14.1126915	-0.5111976	-17.5424643	21.70436529
PER	-22.9441161	-118.3096808	140.8461445	-17.3484050	-5.52414018
PHL	141.0467371	-10.2601849	187.6389960	18.1139057	-18.06902999
POL	-88.5544413	126.7300236	-49.0091425	-115.6065943	89.73254258
PRT	-45.4082205	-6.5534411	44.5683394	-61.9724543	-8.90263511
PRI	-25.6846814	-23.4279730	-4.9254452	-30.3667154	4.38315804
QAT	-8.6096772	-9.4763127	-8.8783379	-5.2746227	-1.89565165
ROU	-64.7576556	240.9540083	-54.8038619	-93.5855201	-9.86513223
RUS	-160.0463627	640.9022580	-176.8107749	-241.8011071	315.69232502
RWA	67.0287602	-88.9958894	48.0885564	70.7351589	-5.76757433
KNA	-2.9601996	-0.7515734	-0.4647858	-2.6674875	7.79601399
LCA	-4.7169621	-0.7864584	-1.0076453	-4.5639302	2.37592760
VCT	-4.0063869	1.3614652	-0.9099041	-3.6594633	2.85921948
WSM	-2.9716519	5.0090330	0.2927143	-4.3404925	-1.03731143
SMR	-2.5661982	-0.4107190	-1.5571178	-2.9455155	-0.95932680
STP	-0.1967178	-3.7815507	9.9957219	1.5290251	-0.56605713
SAU	-25.0689759	34.9781798	-9.6790093	-47.8205970	-13.64573785
SEN	45.6170656	-91.5282022	49.0622256	123.0439609	-10.55096818
SRB	-48.3227326	148.2851092	-52.8882767	-61.9600254	0.83700218
SYC	-3.1887240	-1.9247668	7.0140655	-3.7383187	-0.91507044
SLE	30.4248999	-107.0513428	85.6134584	98.4516939	-10.59890725
SGP	-19.6411010	-11.8511757	78.0533861	-27.2594019	-6.77186113
SVK	-33.8018370	74.8503238	-13.1105676	-41.4636235	3.88908275
SVN	-20.5496309	13.3064985	-7.8589788	-26.3501759	18.57456136
SLB	-7.4076411	8.2113293	13.2861742	-6.4223558	-1.17916982
SOM	281.2430042	-196.9125112	155.1534683	188.6853555	-16.32293856
ZAF	85.5862229	-267.6971354	39.0541042	-2.7240258	-24.93675040
KOR	-44.9423469	-112.0778870	10.6287616	-101.1153637	0.86656107
SSD	76.8420745	-130.0147394	84.5415743	138.3834764	-10.77456497
ESP	-91.8828902	-30.0284651	-35.1305406	-117.8582535	-23.77583323
LKA	-37.5454971	9.6878999	-17.5866265	-52.5685507	-0.42486402
SDN	-46.0211172	58.4019709	-15.3574776	193.0019268	-19.65287305
SUR	-8.5195949	0.2881177	-1.9999006	-1.0550710	0.89547045
SWE	-42.7351008	39.4671952	-20.0068623	-54.3575545	5.30536843
CHE	-37.1875887	12.3344190	-19.9813300	-45.4547453	5.17267434
SYR	-40.9959975	127.5069775	-25.1837966	-33.9025127	-12.21840697
TWN	-49.1790337	-105.1115090	52.6525459	-76.7646610	-6.29931005
TJK	-8.6809283	57.1293811	24.9937284	27.7598602	0.18490735
TZA	157.0088986	-212.0909094	150.4648170	270.6941027	-20.92375309
THA	-27.1529930	-150.9953023	60.8246946	-119.0724939	-22.45246822
TLS	10.8739258	-2.2190333	14.3046063	16.7993974	-3.35273714
TGO	31.6752056	-82.7256209	43.8122419	67.8498701	-8.22205760

TKL	-0.4467166	0.6528427	-0.6574839	-0.5680091	-0.16699692
TON	-2.4143290	-3.3948131	0.8731397	-2.2005560	-0.69759544
TTO	-14.5358235	3.1964356	-10.9660033	-13.6901651	-0.49078738
TUN	-34.9786753	103.2752309	-21.9650107	-29.5167724	-11.89741377
TUR	-90.3856053	85.9062408	-38.0321236	-68.3787008	-30.47426060
TKM	-11.4952589	74.5153535	-7.6258835	-2.3608601	7.13593130
TUV	-0.8454182	1.3460213	0.1095587	-1.3943909	-0.56768086
UGA	131.9871585	-214.3053386	63.8715873	270.0642153	-16.33684447
UKR	-92.3975671	529.8112818	-134.8902244	-151.2675263	119.87263371
ARE	-19.5811574	-8.2374462	-18.7293769	-28.4468179	-0.85980844
GBR	-111.8762555	-39.9320644	91.5179568	-136.1004358	-1.69553429
USA	-253.4265718	-12.8945243	-140.0444738	-290.7522966	58.11443849
VIR	-5.0617620	4.5280734	-4.3493477	-6.0634424	4.16114594
URY	-24.5487966	-11.2789155	3.2822675	-29.4231638	1.18496095
UZB	-31.1959542	168.5005258	13.1239094	-23.3703248	-19.26834912
VUT	-0.8436739	6.1025734	1.4765895	-0.6497089	-1.02948993
VEN	-50.1753781	-1.8359932	-30.9926486	-37.8004174	-15.77419195
VNM	46.0436789	77.7113003	-43.0008396	-104.6247188	-21.02580741
YEM	-42.3253119	3.3617350	-13.2559582	182.6039855	-18.72080796
ZMB	88.3383049	-138.9410306	37.1792449	90.0898282	-12.17002481
ZWE	152.2203554	-146.2809378	98.5476836	67.5302669	-16.86743379
	C16	C17	C18	C19	C20
AFG	-26.08020434	21.07419273	-23.6137103	-9.523795319	-105.4986156
ALB	-9.05234995	30.79423301	-25.1291884	-3.499217320	10.0905970
DZA	-22.73800894	-4.64283386	-67.5785387	-9.888004918	-69.4827824
ASM	-0.46016099	-0.20053558	-2.2780388	-0.560754000	0.1745099
AND	-0.06764564	-0.25607085	-3.8789785	-0.716046270	12.8767774
AGO	-10.07245060	2.42189149	116.8904412	-3.036603781	-119.6906235
ATG	-1.79650623	-0.25410018	-3.5940731	-0.710535727	3.3065516
ARG	4.78766964	-6.15513687	-91.3308743	-14.578356869	101.1574091
ARM	-5.26567771	-1.76786918	-28.0310983	4.577251297	10.0347540
AUS	13.88797406	-3.30072012	-65.0098681	-8.743811488	153.4701307
AUT	9.26180375	0.70586595	-45.4461758	-4.143993503	68.4247941
AZE	-21.07041867	-2.91426411	-44.4819401	7.716842751	-20.1582706
BHS	-4.00089116	92.94108711	-8.1474310	-0.826875064	5.3503090
BHR	2.71661393	-0.67363545	-9.8176426	-1.352293919	2.5945794
BGD	-39.35811827	4.06283043	64.4050184	-22.826005622	-133.9529970
BRB	-3.96074607	-0.56454821	-8.5360192	-1.578635896	14.2769559
BLR	14.41222984	-3.67671335	-59.0479624	50.113013172	-20.0809233
BEL	18.32442724	-3.47588638	-39.5131890	-4.766914352	108.9050129
BLZ	0.28168034	-0.46106881	-5.9102427	-1.289278342	-3.1655309
BEN	-12.16965340	-3.03862576	61.8414210	0.233112057	-90.0778822
BMU	-1.72419927	-0.24944142	-4.0213711	-0.697508516	8.2637217

BTN	-1.99656364	-0.66839074	0.5896054	-0.797909567	-10.8698595
BOL	-8.79194598	17.43407655	-30.7724500	-5.372668631	4.4337229
BIH	-6.77725139	-2.03946974	-32.6287718	-3.244227565	34.5197671
BWA	6.68895823	-1.52363804	-2.6029960	-0.030379698	-31.6783123
BRA	-38.65187855	-10.56077718	-159.9137785	-32.372732879	40.3502321
BRN	0.06884598	-0.44428749	-6.7315654	-0.436699600	12.2788280
BGR	-15.82100865	-3.73827523	-59.8387733	0.583017784	-8.1764708
BFA	-18.30658351	-4.42806866	144.9115116	-1.191280404	-137.4210012
BDI	-9.69384127	0.34015238	150.6269922	2.250004083	-87.4332009
KHM	-19.78893205	-3.53774191	-25.9727693	-9.385607194	-47.5156675
CMR	-7.99400943	4.68955818	172.3565751	-3.019098255	-124.9017709
CAN	14.29932101	-5.54586181	-69.2566300	-7.204827931	208.5498273
CPV	4.97346315	-0.61883212	-5.1283553	-0.573563817	3.5931475
CAF	-9.20179754	-2.67489282	158.2990886	-1.317195442	-93.6547517
TCD	-22.15083338	-3.97741588	424.5595976	0.877955723	-136.6282605
CHL	11.61998098	-1.82370665	-48.7373368	-6.002289737	85.3016870
CHN	-71.96495423	-28.38748102	-601.2739567	-48.352767501	692.3570634
COL	-9.93093797	-2.41543035	-71.7376808	-13.276192870	30.2293655
COM	-3.29144938	10.11290253	12.1755052	0.364899296	-13.2103880
COG	-2.70493404	-1.96468933	29.4109579	-2.030175830	-42.0670733
COK	-0.20092446	-0.13576299	-1.7185459	-0.379631572	0.2851092
CRI	3.22556320	-1.62744983	-21.1752555	-4.110750347	27.7077045
CIV	-8.53586091	-4.36425385	39.5163024	-1.179332681	-124.4939331
HRV	-0.71452404	-2.38993089	-37.7540275	-3.534878700	51.9187930
CUB	8.61668661	-1.58288403	-49.2642682	-7.501120094	72.8470135
CYP	-4.49018202	-0.95848814	-13.9869755	-1.559737612	21.7745639
CZE	-2.00099290	-3.53537904	-51.6947473	3.809933057	77.2951632
COD	-15.33164903	-7.66611340	162.2674137	-6.162685561	-213.8760683
DNK	-2.76284590	-2.43940992	-29.5836348	-4.765070634	96.2772987
DJI	-2.58727469	-0.89824817	8.1190788	0.676474433	-17.8189795
DMA	-1.85568767	-0.27943457	-4.0480500	-0.781377806	5.1071770
DOM	-9.67174791	-2.78804355	-32.1561830	-6.510708421	-20.2298684
ECU	11.88155471	1.23543198	-41.4942588	-7.306726406	7.7282553
EGY	-58.85586379	-8.26831472	-67.1435435	-21.281916528	-180.3740043
SLV	-1.13092899	-2.11319929	-24.7578786	-5.400592249	-19.2937650
GNQ	-2.33339824	-0.89556972	-5.8127758	-1.305104528	-22.1260078
ERI	-0.58447024	-2.18157874	89.7151651	3.587366410	-52.5992932
EST	-0.77455893	-1.32534157	-21.2219757	10.611625926	18.8637723
SWZ	5.50047475	-1.12278374	9.2493770	0.367777337	-26.9434131
ETH	-20.65480186	-7.74033923	298.0386370	10.764517219	-208.7506956
FJI	-1.60194432	-0.89425873	-6.7070272	-2.100293341	-15.7123486
FIN	4.27399292	-2.46167623	-38.3622057	7.379973390	49.2434629
FRA	35.11507724	-8.00684835	-116.1363511	62.313584314	316.0841719

GAB	0.98372856	-1.13057001	-3.0925375	-1.261436950	-16.4604671
GMB	-3.53052291	-1.18510438	10.6858491	0.009147799	-28.9134605
GEO	-14.60830452	-2.36022165	-37.6442928	-2.956880888	-10.4506263
DEU	-11.93015476	-10.19160821	-138.7800052	-23.466741913	272.7769536
GHA	-13.60192486	-4.72173569	12.9112474	-3.236420633	-106.0515656
GRC	-30.38172894	-3.76463033	-59.9437391	-8.239791833	85.2955503
GRL	11.04993175	-0.22544794	-3.3514332	2.544890096	8.7694065
GRD	-1.78093011	-0.29423389	-4.5265544	-0.822760889	4.1029509
GUM	4.23496202	-0.35181395	-4.5831644	-0.983770958	0.1291814
GTM	-10.02236062	-3.24506671	5.1412473	-4.543988650	-40.5927323
GIN	-16.66582043	-3.38669847	66.9688477	0.694954604	-85.0228217
GNB	-1.67002699	-1.21894760	44.1445366	0.997136104	-33.2205160
GUY	16.77089033	-0.85386331	-9.2050112	-0.710685172	-13.6798339
HTI	-7.38663040	-3.20240405	30.0313456	9.182362408	-55.0277920
HND	-17.98424212	-2.40165615	-7.3005666	-5.969826204	-20.5951917
HUN	2.80468944	-3.78376568	-56.4683415	9.047116754	76.3668682
ISL	1.69834540	-0.47397214	-6.9677694	-0.570160575	16.1461690
IND	226.94586753	37.63171166	852.7725737	45.578383183	-663.4968434
IDN	-107.54797756	31.56337981	52.7697827	-35.836493336	-175.7232068
IRN	-15.01765943	13.00548021	-95.3490158	-14.252798650	-12.2184263
IRQ	-4.87459203	-1.97296746	-60.0270666	-10.783428040	-39.4457184
IRL	0.09326525	-1.86234707	-28.3434591	-3.861527791	67.7147797
ISR	-3.23645856	-2.23815796	-25.0650950	-3.697661980	76.9164021
ITA	-47.75276862	-8.40115282	-127.6609435	-15.733981646	249.9462549
JAM	-10.71619917	-1.44512843	-21.3535424	-3.793220733	16.4688325
JPN	41.72674172	-5.97751729	-182.7999694	27.508246720	420.1336485
JOR	-7.88316234	-1.83503468	-27.2168979	-4.545788914	0.8872774
KAZ	52.79913531	-3.96392674	-62.9519483	55.998836423	-33.8930314
KEN	-13.80171569	-5.68882485	117.6896380	-0.536977840	-144.7463654
KIR	3.63940056	-0.35434507	1.8532356	0.019289557	-6.1639003
KWT	0.19659949	-1.03089081	-16.2479433	-1.840864953	-2.8955435
KGZ	4.96217984	-1.98279501	-28.9376473	13.241568112	-32.5054463
LAO	-6.73735334	5.16965034	-2.3879017	-4.121013319	-36.1875110
LVA	0.82933304	-1.73531146	-27.8286276	17.228637785	9.5331227
LBN	-13.33473862	-0.35480138	-28.9092110	-4.806573983	19.6663155
LSO	13.81097284	-1.89068572	17.8585048	-0.361872371	-53.4178507
LBR	-6.64537051	-1.76530562	57.3874495	-1.081910218	-48.0098067
LBY	-3.86417602	-1.84748559	-27.3644191	-4.196850691	-3.3021783
LTU	14.24377447	-2.06259425	-32.8185704	28.963507309	10.7856584
LUX	1.81807550	-0.66680091	-9.1223822	-1.327736906	22.7418861
MDG	-14.40642921	-4.19337679	211.9716958	0.258587190	-117.5961965
MWI	-9.07685108	13.14484318	80.0024810	-1.303300754	-82.1118489
MYS	-11.21341301	-4.10389443	-49.7911369	-11.046091943	1.3250088

MDV	0.18955751	-0.39177580	-4.5238022	-1.095515550	-2.8205551
MLI	-33.11662443	-4.59675112	119.3276280	-2.383477207	-151.9927547
MLT	-3.71380883	-0.63328662	-9.9071393	-1.205616072	14.4638436
MHL	2.66125885	-0.21348652	-1.9467748	-0.596968483	-2.7532638
MRT	-7.60506263	-1.50194936	41.2150115	-1.339086995	-30.3820147
MUS	-2.88058320	-1.08764711	-15.7735808	-3.041367878	-11.1342109
MEX	-24.85047587	-9.13811338	-112.3963442	-19.517194750	-91.2247562
FSM	2.86649534	-0.32023128	-3.3686627	-0.895456924	-4.9368818
MDA	-1.81629577	-2.17929538	-34.8990242	25.629419791	-20.3328525
MCO	-0.81276789	-0.23938640	-3.8592691	-0.669391855	14.7643229
MNG	12.83492482	5.46392415	-25.2315748	51.340397011	20.6901980
MNE	2.41094277	-0.86659236	-13.8971077	-0.357822647	12.5040262
MAR	-9.57040873	-4.98617658	-62.7107423	-6.446604269	-71.8099210
MOZ	-17.68445405	116.97552061	22.4156518	-3.887918254	-168.4715686
MMR	-49.87988692	10.36953216	-45.3309030	-18.166175052	-91.7677958
NAM	0.14721988	-1.43908237	7.6811071	0.205620221	-34.6861341
NRU	1.20368461	-0.08388982	-1.3524302	-0.234579587	-1.1915715
NPL	18.33170858	21.55683729	5.1630918	5.056141213	-77.2166626
NLD	-0.89452629	-4.06337968	-58.8135079	-9.949134070	195.9779462
NZL	2.65694520	-0.86275126	-28.1239603	-4.029714466	64.5831807
NIC	-2.61026020	-1.80604165	-22.2206421	-4.257036243	-14.7564670
NER	-29.79299512	-4.41471903	345.0292163	-2.259043019	-156.0959065
NGA	-87.27480269	-12.85203859	716.8995915	-9.418697931	-402.6426859
NIU	-0.50474381	-0.04484098	-0.7229040	-0.125388012	-0.2036247
PRK	-5.49952915	-5.12342147	-78.9812126	-6.678706947	-13.4269807
MKD	-6.77412767	-1.63512602	-26.0873153	-3.477288196	16.6015900
MNP	1.47033738	-0.19602856	-2.5090414	-0.548151096	2.2551075
NOR	0.97203952	-2.07893549	-22.7925509	-0.299931842	72.1473695
OMN	-3.62517789	-1.14622775	-16.4737557	-0.394156937	-19.2529504
PAK	-14.65894089	5.43049498	191.5208465	-22.991407329	-179.6802729
PLW	0.10847554	-0.15021567	-1.5718571	-0.420045352	-0.2596114
PSE	-6.54432735	-1.32862652	-19.9297252	-3.176260417	-0.4220631
PAN	-4.26101835	-1.46567415	-15.5257441	-3.609848226	7.8253350
PNG	-20.14376460	1.10386468	31.9698643	-3.531908597	-62.2499133
PRY	-1.31009764	7.00604674	-24.7083648	-4.210345486	1.4672175
PER	-23.50877361	14.57396420	-46.7054769	-5.886719310	38.6640682
PHL	-43.26407799	-7.32483193	-68.5332731	-14.834467374	-104.9899335
POL	13.27377805	-6.71721370	-105.7547405	0.058956324	194.9161226
PRT	-5.42239190	-3.54874273	-52.9394084	-5.880474113	82.9702479
PRI	-9.23253312	-1.88060306	-27.0579039	-4.687381770	15.5182555
QAT	9.72839585	-0.67933321	-10.3880737	0.208090825	2.6214047
ROU	-25.71052187	-5.48436510	-87.3518688	4.209089739	14.6418728
RUS	92.56108344	-14.32607703	-229.0095487	195.086651658	-63.8419120

RWA	-5.60325028	-2.72770300	41.7997962	-0.926989747	-51.7701823
KNA	-1.83886949	-0.23228130	-2.9203307	-0.649523975	1.1116565
LCA	-1.34691044	-0.38790728	-5.5954361	-1.084698077	3.8134139
VCT	-1.54890832	-0.33103748	-4.5655385	-0.925674103	2.1533590
WSM	1.52028398	-0.38487155	-4.3803462	-0.146187772	-6.4124544
SMR	-0.07171149	-0.18214538	-2.9364576	-0.509329819	9.2532389
STP	-2.59311194	-0.32798633	-2.9522571	-0.917142211	-2.7748994
SAU	3.70381412	-0.31543657	-52.6942976	-9.061510739	-65.3516398
SEN	-1.18527756	-3.05752059	89.9585888	-0.811473786	-64.8105322
SRB	-2.30296677	-3.61273085	-57.5167120	-5.137833425	51.5965648
SYC	-0.59112397	-0.29593744	-3.6925069	-0.827524489	3.2826136
SLE	-13.56177977	-0.05570664	46.2954807	-0.784312133	-82.0412587
SGP	8.60427654	-1.58287320	-24.0659886	-3.973719329	48.9318859
SVK	-2.29870829	-2.46406219	-39.2576469	9.104382650	42.4170310
SVN	7.66427321	-1.50313976	-23.9779942	-0.868259111	46.8707041
SLB	7.00405531	-0.80669615	5.8286090	-0.924510773	-14.4826725
SOM	-20.63062570	-4.30425881	179.2840914	8.733392375	-143.5650778
ZAF	9.76681738	1.54472743	-6.4769390	-0.959508695	-141.3163520
KOR	155.48562022	-5.94013379	-85.0532115	1.632224304	211.7659848
SSD	-17.29693678	37.22157464	115.5779480	1.790176075	-83.4138994
ESP	-26.53956821	-6.80976119	-98.3269822	-15.917212018	199.1855965
LKA	60.89337067	-3.83886569	-44.9039961	-6.154776529	-40.2352530
SDN	-10.54159246	-4.53205467	22.0711750	-7.997472516	-101.5305022
SUR	11.54307424	-0.68040136	-7.4039656	-1.376496577	-2.0768723
SWE	3.47591351	-3.16214780	-35.9762108	-2.152927011	85.4661280
CHE	8.38068724	-1.23763239	-37.8130251	-6.135394756	80.7570422
SYR	-24.79746236	-3.04532947	-46.6392397	-5.925900084	-58.8425023
TWN	34.97323269	-4.52424369	-71.0831872	-10.666548930	139.4153848
TJK	-7.48846722	-2.28909728	-14.0188564	-4.522986179	-39.4539395
TZA	-20.08443587	-6.07037040	68.6677321	-2.618720575	-132.2951751
THA	4.18870039	-6.43674286	-65.0627190	-18.521338615	95.4083169
TLS	-4.07121288	-0.91366508	1.6900040	-1.771253424	-16.6944602
TGO	-4.19773852	-2.37039416	119.4059513	-0.884971649	-62.9507819
TKL	-0.35690774	-0.03170736	-0.5111703	-0.088662706	0.2849575
TON	-1.32858015	-0.26759027	-3.5983425	-0.748257824	0.8348780
TTO	-0.21246018	-1.12343051	-16.6906732	-2.822757558	-1.8483031
TUN	-16.90152238	-2.71271878	-40.8825490	-6.528685890	-20.9140041
TUR	-45.74187583	-7.03056578	-106.6434503	-17.401145278	91.5756721
TKM	-1.88929728	-1.96303768	-29.2068860	19.324063294	-38.1681127
TUV	0.45854017	-0.10778438	-1.1454461	-0.301395509	-1.3306783
UGA	-17.03486311	-4.99799839	59.9074007	-3.045602006	-107.2349167
UKR	39.61934579	-8.92233572	-143.2399182	86.125441302	-96.1769273
ARE	14.75581648	-1.74183949	-25.8812715	-2.403565557	6.9097694

GBR	-29.68154509	-8.18879700	-120.8328099	-17.241558938	288.7274723
USA	30.07738401	-12.21742739	-251.4738176	-22.643543797	390.2025212
VIR	-2.02602103	-0.37308067	-5.8435294	-0.083826065	7.2253240
URY	10.35999476	-1.89473331	-24.9504343	-4.164090849	59.3530091
UZB	16.63833682	-4.83070771	-75.7427541	-0.268472475	-91.7217122
VUT	3.84937032	-0.49042134	0.9444262	-0.641485377	-9.6503842
VEN	-4.42352666	-4.50809529	-52.5327211	-11.729613063	7.0755108
VNM	-5.75745452	-7.76024171	-121.9498147	-19.841544933	-7.2164159
YEM	-14.73983719	-4.25366199	30.9689849	-8.265364238	-110.6148011
ZMB	-6.81784290	-2.57146428	66.9907593	-2.028218371	-92.5916598
ZWE	16.48306093	174.16779532	19.7732548	-6.830581030	-77.2707426
	C21	C22	C23	C24	C25
AFG	1518.6492735	-17.89892253	-0.9821173	12.337504896	12.4362025
ALB	-5.0774225	-18.49334817	-10.6744871	-3.661559861	-9.0109115
DZA	-14.0814057	-2.10129425	45.1095416	4.745239592	-24.1194972
ASM	-0.6459347	10.68553236	5.4588368	-0.715189736	0.5035410
AND	-0.8248164	-1.91782245	0.1547600	-0.913250629	-1.5162425
AGO	-13.0644581	-13.12640054	-31.3632550	11.956001769	86.0506378
ATG	-0.8184688	10.12923333	5.4220464	-0.906222441	0.4971768
ARG	-19.8259892	11.98689376	73.7457291	-9.465794017	-1.6603660
ARM	-5.6943909	15.74007332	-10.6531340	-3.444486996	-10.3719237
AUS	-13.6757391	-5.20994034	15.3973644	-12.289750434	-19.6927672
AUT	-9.6148928	1.48386305	28.3364826	-7.725400856	-17.5610878
AZE	-9.3869836	-0.30890765	-13.7678376	-2.192106442	-16.2072203
BHS	-1.7232000	8.66352271	5.5354511	-1.383065629	-1.5830441
BHR	-2.1698119	55.84025239	6.8156131	-1.568724464	-3.2335958
BGD	-26.1269176	63.60309452	-61.7283826	-17.999660269	-16.7331957
BRB	-1.8184367	25.95289735	5.6397567	-2.013403720	-1.8411015
BLR	-11.8428689	-52.78397692	-48.0888742	13.600097111	-20.6613031
BEL	-11.1959957	-24.64069414	2.5352841	-9.401468891	-4.0616139
BLZ	-1.4851246	13.74194996	8.9024357	-1.035328423	1.6827832
BEN	-9.6851139	-17.07160205	-12.7345418	9.708817645	25.7633193
BMU	-0.8034627	2.06828367	1.1628001	-0.889607441	-1.4769884
BTN	-2.1529184	3.89720781	4.1634209	-1.543478642	-3.1966165
BOL	-9.2182688	37.99694431	57.9316558	-3.329322816	31.1057826
BIH	-6.5692292	38.31020486	-10.3255077	-5.482500890	-11.9096950
BWA	-4.9077108	19.55126760	-4.3863658	2.124934148	11.1271823
BRA	-39.8847379	143.06014645	39.4807247	-39.743721929	34.0442157
BRN	-1.4310712	17.24546360	4.7092807	-0.952477389	-2.6307077
BGR	-12.0411627	-20.10780384	-23.4854423	-9.869025775	-21.9531787
BFA	35.5234083	-28.95614324	-26.4931768	24.095534851	120.9012013
BDI	-1.3581155	-17.58263174	-23.6179137	12.930551610	94.4470870
KHM	-11.2191578	7.98574294	-13.8688491	-6.890522716	0.9992858

CMR	27.2528408	-3.64902238	-3.3710727	8.192469797	5.6151231
CAN	-17.8071564	-4.47460109	3.7586897	-13.061591533	-23.5586408
CPV	-1.9932878	3.72441063	1.6095352	-0.845674433	-0.6502667
CAF	30.9379894	-19.08033153	-25.3810192	6.750357290	61.0104704
TCD	8.8129442	-36.92423241	-31.4850617	11.154489741	77.9953616
CHL	-11.3639933	11.76726293	39.8259018	-9.551824391	5.5952533
CHN	-122.3933602	-258.13310878	-166.3884836	112.212394822	-152.6489619
COL	-16.5800673	3.91975467	42.5770268	-14.906062353	12.0976446
COM	-2.3753665	2.08781682	-0.9611381	1.939504203	9.8890363
COG	-6.3283580	5.97302437	-6.9045090	2.860881146	10.7318177
COK	-0.4372990	10.43091203	1.3009404	-0.484184872	-0.8038775
CRI	-5.2420935	-3.88707363	30.4943979	-0.971025361	-7.4477092
CIV	-13.3430459	-19.44590718	-15.5861701	8.121939743	1.7107930
HRV	-7.6980813	-8.56866821	-11.5553674	-6.406633579	-14.0802102
CUB	-10.8482435	-16.41882107	1.3351313	-11.009015374	-17.2690081
CYP	-3.0873360	16.93995128	8.2287099	-2.539354220	-4.6138858
CZE	-11.3876244	4.64715800	-30.2228805	-6.878284232	-15.2149843
COD	42.0339914	-29.26670706	-49.0904491	19.553182738	89.2375409
DNK	-7.8574556	-2.16275077	-7.1433065	-7.547708593	-11.1047746
DJI	-2.8933002	0.08060417	-3.9373132	3.049341074	32.4368250
DMA	-0.9000721	8.42695997	5.8357200	0.008300498	-0.4410701
DOM	-8.9804212	22.44497771	10.8444682	-5.002000512	9.4305687
ECU	-10.2360488	47.61209112	94.7504291	-5.049592548	14.1030152
EGY	-0.7066575	25.06861875	49.3568045	-23.340798904	-35.8113119
SLV	-6.8067156	33.63632353	95.0363674	-6.073800143	10.8520938
GNQ	-2.8846728	1.30263276	-3.6442433	-0.058184457	0.1880862
ERI	-7.0269691	-4.61798993	-13.8605427	11.283788469	65.3274354
EST	-4.2689884	-14.76860459	-3.1657853	-3.455138906	-7.7196267
SWZ	-3.6165400	20.39007642	-1.5918463	1.498756428	6.9451137
ETH	-18.2409623	-18.77590035	-35.1481677	68.487217086	144.4697611
FJI	-2.8804500	108.03734499	7.7059475	-2.561208824	-1.8819184
FIN	-7.9291765	-27.08611617	-19.2479326	-7.523340751	-14.1623773
FRA	-25.7904402	-27.11222104	-18.3606072	-21.007023620	50.6176340
GAB	-3.0916615	16.17736414	3.9111328	1.681520280	2.7555081
GMB	-3.8172777	-1.51716732	-1.1044535	3.120145729	8.4373399
GEO	-7.6023864	-1.24394694	-16.8578920	-6.035926681	-13.6877015
DEU	-33.1461617	-26.34539354	70.4454168	-33.951501152	-50.6056590
GHA	-13.8875618	6.81435592	-7.5645561	9.004694988	39.0031522
GRC	-12.1260537	-37.91330454	22.5896165	-11.856183736	-22.1104991
GRL	-0.7261785	-1.96347590	-1.4481898	-0.804037122	-0.5828690
GRD	-0.9477414	11.42098307	6.6672467	-1.049355230	-0.5897350
GUM	-1.1332095	2.60272867	5.0617024	-1.254708646	-0.6373619
GTM	-10.4525145	78.19958121	72.4430927	9.663238096	72.0629973

GIN	-9.7133751	-17.14055423	-14.7845911	10.765173627	64.4613762
GNB	-3.9262883	-2.97350729	-3.0326002	3.486807655	5.7211648
GUY	-2.7503344	28.34169230	8.8124932	-2.387436758	3.4833999
HTI	-10.3150961	32.43172003	-0.6950836	4.124882527	29.5631237
HND	-7.7358489	-9.09098180	49.8699864	-2.011717299	-0.2294216
HUN	-12.1876896	-19.31043774	-26.8653439	-9.998321350	-21.6857368
ISL	-1.5266869	-4.19743453	-2.7569949	-1.097925698	-2.0910210
IND	-102.9616211	48.39759751	-19.0901645	-83.675204883	-123.9485595
IDN	-43.9764907	268.25666693	-13.6750872	-30.744438328	148.9205081
IRN	-19.1213751	39.50923093	27.4266526	10.625499452	-33.9707602
IRQ	115.0065065	67.27328987	54.7053635	-7.168952369	-21.8879321
IRL	-5.9987087	-13.05296990	-4.0548692	-5.133271208	-10.4807513
ISR	-6.3752932	38.90306018	46.9970035	-6.977676009	-9.9924889
ITA	-27.0605137	28.96138938	1.0079478	-27.121678048	-38.2097798
JAM	-4.6548276	82.05028090	20.5367293	-4.570792903	-1.7498047
JPN	-40.3554072	-157.36935812	50.8197541	-37.462889586	-54.8184043
JOR	-5.2328393	41.35608481	36.8674911	2.641706119	-9.3864496
KAZ	-12.7679970	-22.66871756	-30.2364587	18.958588387	-19.8689605
KEN	-14.5888904	-22.81125397	-32.6806550	21.691429190	100.0071059
KIR	-1.1413624	18.63430867	1.4015506	0.321155224	4.1222105
KWT	-3.3205484	5.78395215	4.6473627	1.499545347	-6.1040935
KGZ	-6.3866772	-21.81387969	-14.4755693	3.839970458	-11.1415431
LAO	-7.0192009	9.98083419	18.1457080	-3.903149233	0.8008581
LVA	-5.5895209	-15.85676478	-16.9236360	-3.760435881	-10.1773451
LBN	-3.9128329	-2.65760910	10.8768596	-1.720335897	-10.3027400
LSO	-6.0899888	12.01186554	-9.8014888	0.241329273	5.6736626
LBR	-5.6861335	-5.78805487	-3.2434693	2.775412949	18.3752165
LBY	168.9469862	0.94684277	20.5127833	3.447894019	-9.6537773
LTU	-6.6437144	-26.09434623	-23.6278341	3.951171144	-12.0484822
LUX	-2.1477975	-4.32926399	1.4459193	-1.956941559	-2.1682393
MDG	-3.1743966	-24.70075641	-34.4769282	10.496510426	182.1327174
MWI	-11.4127366	-12.57147308	-21.6833765	10.393365319	73.9142878
MYS	-13.9642040	-14.72724582	26.0755328	-2.077676438	-16.6473282
MDV	-1.2619285	2.08074850	8.9374068	-1.397228512	-1.0214505
MLI	64.5806260	-36.30085269	-32.4440660	18.239365749	510.7562254
MLT	-2.0398464	2.07299556	1.1289835	-1.815132422	-3.4820636
MHL	-0.6876503	7.25022528	1.9499843	-0.761377951	-0.4699075
MRT	-4.8378505	2.09726707	2.6587494	0.628155706	20.6933716
MUS	-3.5033632	93.28568692	59.7258119	-2.846118244	-3.9455309
MEX	-29.4342988	372.15427206	390.1976527	-17.918384492	72.7577038
FSM	-1.0314802	16.42883485	5.1447858	-0.265212089	-0.8372294
MDA	-7.0196143	-27.03620191	-26.4059339	15.438169140	-12.8261479
MCO	-0.7710750	-2.81842767	-1.5079776	-0.853747247	-1.4174508

MNG	-5.4132325	-21.98136023	-10.7087987	8.883509261	-9.9510300
MNE	-2.7913353	-2.90323001	-3.7668341	-2.118433006	-4.9355806
MAR	-16.0607124	3.82071304	46.6655581	-4.664271993	-23.6856916
MOZ	-7.6246080	-28.74107436	-48.8128858	14.146137995	77.0823275
MMR	6.7823870	104.38921297	8.7696705	18.042024947	-10.1187043
NAM	-4.6353529	11.55493461	-6.3080287	0.528060262	13.1644235
NRU	-0.2702131	3.18299988	1.0618347	-0.299184514	-0.4967270
NPL	-13.2896668	-25.63850273	3.1647072	14.397578282	9.7105019
NLD	-13.0883396	-13.24020502	-1.4262964	-13.521552209	-18.7883073
NZL	-6.1534866	-8.67345517	2.0202983	-5.636685340	-10.2461917
NIC	-5.8173462	37.72337632	99.2491566	-3.018788731	2.7377829
NER	13.6791646	-41.12437583	-35.4901080	15.010822306	65.2097656
NGA	35.2657693	-84.05962456	-93.6610625	35.854910994	-8.3983910
NIU	-0.1444349	3.52247039	0.7782372	-0.159920784	-0.2655117
PRK	-16.5027847	-32.41221564	-23.5991205	6.221850331	-18.2389964
MKD	-5.2668188	14.84663350	-10.7081913	-4.285297874	-9.6818810
MNP	-0.6314173	5.57098333	5.0513004	-0.699115901	-0.2958079
NOR	-6.6963503	-13.33178331	-7.5872690	-4.711071023	-4.7197896
OMN	-3.6920542	20.49594142	-6.3189753	1.792687402	-6.4911266
PAK	-28.4488370	38.16346725	39.1972577	2.329092356	40.2709371
PLW	-0.4838518	7.29015501	3.3896395	-0.535728901	-0.8894545
PSE	9.7608620	40.29481894	11.6751689	-3.681398841	-6.4629185
PAN	-4.7210063	29.00154895	29.3187794	-3.502351031	5.0920537
PNG	-8.5684336	69.16254280	-22.8724487	6.576078402	-2.8614951
PRY	-6.1469775	50.55868659	35.6459910	-5.039332466	15.1913181
PER	-13.1573375	8.02837134	67.1341236	-4.435332377	24.5510396
PHL	-10.8647838	79.70730244	139.8789165	-23.065125091	13.0617292
POL	-21.6364655	-31.47982617	-57.7606906	-14.565138340	-37.2056103
PRT	-11.4306695	18.61750082	20.8431217	-10.753298052	-14.9804303
PRI	-6.0575121	83.50250913	43.1620223	-5.959993382	-1.9341853
QAT	-2.1881647	21.24761776	2.3964239	0.470803762	-4.0224565
ROU	-17.6654014	-60.73176926	-48.3041583	-3.403355822	-30.3923984
RUS	-45.6963930	-146.26375517	-166.8918571	66.531752617	-81.8175677
RWA	-8.6719732	0.46000569	-11.6349436	9.236333324	51.9943811
KNA	-0.7481891	5.25873570	5.5021809	-0.828407609	0.8143971
LCA	-1.2494678	14.99890950	6.0788591	-1.383431827	-0.1114149
VCT	-1.0662875	15.16428756	4.0474241	-1.180611493	1.6251026
WSM	-1.2396896	14.22583077	4.5033380	-0.643010690	-0.5167411
SMR	-0.5866990	-1.20852808	-1.3766801	-0.649602961	-1.0785162
STP	-1.0564596	-2.41090233	4.9867273	-0.313601794	1.6765202
SAU	-11.6903190	-6.40014167	70.1679618	6.129926244	-18.6342454
SEN	-9.6447929	4.51844054	5.5173342	9.054957765	3.8887809
SRB	-11.6367783	6.81200537	-9.9395296	-10.158275088	-20.8742988

SYC	-0.9532286	0.78387237	5.2354476	-0.106590445	-0.6064560
SLE	-8.6177773	-17.33584471	-15.9161488	9.161639729	56.6766214
SGP	-5.0985100	-18.46803620	7.0955813	-5.112752493	-9.2653251
SVK	-7.9368618	-18.49369503	-17.9064926	-5.936092324	-14.0391516
SVN	-4.8416848	-9.27107046	-11.8586500	-4.239550752	-8.7875292
SLB	-2.5984067	20.94184879	-5.2323502	4.781540798	0.4783184
SOM	108.2561218	-30.98030489	-37.9084569	25.088243622	269.8949424
ZAF	-22.7358454	110.95577656	-8.0152088	-7.736154535	1.4822632
KOR	-19.1334541	42.05060929	-2.9166694	-11.105299518	-31.6701964
SSD	44.2099266	-18.27526146	-20.3730382	7.111404589	115.4707286
ESP	-21.8885739	-15.11653640	37.5330973	-19.799047603	-32.7453567
LKA	10.5226665	157.91439146	36.3836392	-8.998291973	-16.1782259
SDN	-7.6477441	-33.82491954	-0.7879363	21.882930775	0.3792483
SUR	-2.1916052	13.89812972	14.8972336	-1.601143752	-0.7891144
SWE	-10.1854288	-9.62346444	-7.2394379	-8.342309643	-12.9771333
CHE	-8.7407211	-11.31301402	11.9686522	-8.641865982	-11.3136661
SYR	695.5063575	-10.83835400	10.5719480	-4.027298619	-14.4075979
TWN	-14.5728046	86.18200803	50.6915544	-11.277934002	-22.4271095
TJK	-7.3732915	8.85983160	-23.8416523	-3.130206250	-13.4059029
TZA	-18.5742027	-9.64534324	-25.9790607	25.818443617	149.8793502
THA	-21.2654859	49.84760018	132.9080580	-20.423304559	-22.1565914
TLS	-2.9429588	-1.52857368	2.6754474	-2.029019291	5.3544191
TGO	-7.6351526	-10.36395835	-8.7800111	3.877312721	1.7149065
TKL	-0.1021309	1.48921632	1.5930246	-0.113081061	-0.1877451
TON	-0.8619210	15.12619885	3.7518077	0.095019439	0.3163870
TTO	-3.6186232	85.44229692	18.9351380	-3.506611188	-2.8782882
TUN	-7.0170443	-1.23106365	22.1533793	-0.865629828	-14.6858255
TUR	-8.8738594	65.46214752	72.7962010	-6.834195412	-24.9026609
TKM	-6.3230379	-7.24212189	-6.4882538	-1.705127896	-11.1049602
TUV	-0.3471786	4.73500060	1.3934936	-0.384402027	-0.6382111
UGA	-12.2896906	-16.78112333	-32.6398499	12.919827353	100.6607088
UKR	-20.7278495	-124.25860396	-118.5964009	17.247934141	-51.5409287
ARE	-5.6105480	20.10794676	27.3755519	0.561901545	-10.0215921
GBR	-26.2997543	-82.77857368	-63.6918063	-24.524253379	-46.0172357
USA	-58.3200362	-11.32940383	124.3267363	-40.424310728	-52.3526008
VIR	-1.2017106	7.57294669	3.4224864	-1.330554238	-0.3912365
URY	-6.1030263	-0.68889087	5.1093478	-4.384823724	-1.9073203
UZB	-15.5599398	29.32790825	-20.4581101	4.244614081	-28.2864132
VUT	-1.5796705	8.49979757	1.8220943	-0.603881929	1.2448838
VEN	-14.5207898	79.53344299	83.1172508	-10.953080030	-6.8067939
VNM	-26.9438389	90.16051870	41.8830406	1.914977955	-47.5825685
YEM	968.5092953	-41.75733724	-24.3384424	14.623717593	12.4323335
ZMB	-11.7211598	-14.71940484	-22.0107633	10.652363910	63.0419828

	ZWE	-11.0579592	-1.05193330	-16.9154312	17.383622482	108.4293668
	C26	C27	C28	C29	C30	
AFG	5.062381e+01	-72.80865737	-27.70074303	-3.353122e+01	1.89283207	
ALB	-1.127947e+01	-20.87238883	-11.10816839	-1.643025e+01	-4.07997063	
DZA	1.060721e+02	-57.26383370	-16.31198341	-2.852960e+01	19.65306169	
ASM	-1.052287e+00	-0.66983571	-0.89068978	-7.289161e-01	-0.85900634	
AND	-1.386663e+00	-0.61789464	-0.98826437	-1.172694e-01	-1.09689505	
AGO	8.907106e+01	-80.72422684	14.45746123	9.322954e+00	8.43603721	
ATG	-1.624617e+00	-4.99248358	-0.67715404	-6.245072e-01	0.75280152	
ARG	-1.303135e+01	-35.07120760	-6.34821921	1.586278e+01	-0.66686249	
ARM	-1.532383e+01	-16.55959003	13.16933644	1.144683e+01	-1.61519110	
AUS	-3.315965e+01	-5.32158935	-32.91390241	-1.100997e+01	-12.16345834	
AUT	-3.052656e+01	-32.89617798	-7.57049385	-8.512680e+00	-9.49024372	
AZE	-2.151480e+01	-49.42890572	23.80096874	6.433862e+00	20.71461120	
BHS	-5.908694e-02	-10.34093933	-0.89271757	-1.370380e-01	2.08124217	
BHR	9.355704e+00	-8.18951519	2.71492713	1.556596e+00	2.32378638	
BGD	-7.241311e+01	44.82337676	26.02373820	1.484126e+01	-6.94021160	
BRB	-4.062562e+00	-10.46592780	-3.48534101	-1.870734e+00	-0.34634172	
BLR	-3.162048e+01	-70.68868980	-18.33414479	-2.027428e+01	27.67532834	
BEL	-3.092612e+01	-5.71368440	-15.32328134	8.440552e+00	-6.19012411	
BLZ	5.947070e+00	-5.73095962	1.90747634	1.463977e+00	0.05450578	
BEN	2.821962e+00	-55.45448434	-6.23491722	-6.840987e+00	11.03975739	
BMU	-1.521412e+00	-3.69626393	-1.84704800	-1.439340e+00	-1.06849748	
BTN	-2.596000e+00	16.93815648	6.60581520	7.243603e+00	-0.06297757	
BOL	1.068188e+01	-25.19015107	30.48207848	4.173518e+01	1.98280036	
BIH	-2.207159e+01	-30.19086226	-13.23001363	-1.260809e+01	-2.65287775	
BWA	5.501474e+00	-23.17296269	-6.16597784	-6.288168e+00	9.90774451	
BRA	8.964801e+01	-71.56412133	9.70322465	6.421130e+01	-20.86967551	
BRN	3.577772e+00	-3.30224927	-2.46569900	-2.482139e+00	0.72958568	
BGR	-3.999494e+01	-66.25549529	-11.71307823	-1.823217e+01	-8.67480009	
BFA	2.322549e+01	-92.66688219	-25.70465332	-2.101823e+01	19.40357949	
BDI	3.260443e+00	-47.14989964	-5.87340418	-3.968166e+00	8.39842425	
KHM	9.135512e+00	-36.94326649	98.93128909	9.801369e+01	-1.04072340	
CMR	3.413613e+01	-86.35046894	-14.75297055	-2.009162e+01	9.16389450	
CAN	-4.640281e+01	-12.02723599	-23.27175864	-8.426824e-02	-10.91050836	
CPV	-3.318362e+00	-9.41797097	2.23501936	1.114402e+00	3.39785042	
CAF	4.408258e+01	-47.06168022	-15.26936221	-1.506740e+01	3.16390146	
TCD	-9.723172e+00	-77.40170649	-15.37654726	-1.881365e+01	10.67725481	
CHL	-3.080691e+00	-20.03572341	39.73413570	4.534067e+01	7.54398415	
CHN	4.687213e+01	426.16368431	-276.52951216	-3.478531e+02	-78.21413135	
COL	3.098771e+01	4.07263420	-30.59025965	3.822625e+00	-12.92041534	
COM	4.273404e+00	-10.39425923	2.58499551	4.746562e+00	1.91694255	
COG	2.788188e+01	-31.57366938	4.52767435	2.497587e+00	1.71123927	

COK	1.936837e-01	-1.21374511	-1.18272902	-1.014478e+00	-0.58154900
CRI	1.411630e+01	-7.66198905	12.75854682	2.030609e+01	-3.95143016
CIV	-6.478115e+00	-81.94665332	-9.75805893	-1.571535e+01	8.72779346
HRV	-2.271912e+01	-31.55070558	-6.31297439	-3.513669e+00	-6.51443277
CUB	-2.464893e+01	-34.07317114	-13.69457921	-5.951951e+00	-7.81587519
CYP	-3.542463e+00	-2.53876533	-5.60915502	-1.180314e+00	-1.90886495
CZE	-3.473312e+01	-47.16719023	-12.95519383	-5.723393e+00	-10.37010572
COD	1.713192e+02	-96.70527244	2.50670659	1.972749e-01	10.44980055
DNK	-2.595354e+01	11.37974700	-12.96800628	3.720126e+00	-3.25012869
DJI	1.527064e-01	-17.26159482	2.21640547	9.680217e-01	3.18479463
DMA	-8.757552e-01	-4.22628696	-1.84524490	-1.405820e+00	0.47735010
DOM	2.940388e+01	-45.81821352	24.89654757	1.160443e+01	0.15494613
ECU	6.354500e+01	-37.44752020	30.02740543	4.192642e+01	1.35553386
EGY	1.423013e+02	-107.60829405	368.50731886	2.488968e+02	7.38385043
SLV	1.360581e+01	-27.02377201	12.92352437	1.309062e+01	-4.39923880
GNQ	9.959478e+00	-16.67184221	-4.96638889	-5.774597e+00	-0.17884543
ERI	5.984558e+00	-37.14742390	12.54783749	1.120517e+01	7.93252078
EST	-1.436385e+01	-25.92250901	-7.29584753	-5.847422e+00	3.85683460
SWZ	9.522085e+00	-18.28798569	-6.69234989	-8.163478e+00	6.23519524
ETH	-2.337202e+01	-132.90291015	71.37997870	6.652133e+01	30.96682882
FJI	-5.450862e+00	-5.04518982	-7.77331263	-8.687435e+00	2.97162398
FIN	-2.716800e+01	-31.66118105	-8.33197844	8.270042e-01	-3.88611420
FRA	-7.519340e+01	-99.64596761	-38.20036730	1.927571e+01	-14.13254112
GAB	1.700815e+01	-18.96947813	5.03732803	2.874590e+00	1.36581811
GMB	-1.088335e+00	-16.95139247	0.92553228	1.430386e+00	3.80819036
GEO	-1.235402e+01	-41.65746839	5.90321494	-4.313847e+00	1.59593419
DEU	-1.143185e+02	-92.03674600	-30.40954185	2.275386e+01	-28.39850830
GHA	2.181727e+01	-74.18131289	10.29678680	9.325145e+00	10.20581454
GRC	-2.895725e+01	-30.82436965	-35.71455144	-2.494931e+01	-9.39938378
GRL	-2.562637e+00	-0.22517052	-0.95719893	5.769995e-01	1.10953612
GRD	-1.730905e+00	-5.19431695	-0.65809796	9.478717e-02	0.32974361
GUM	-1.516343e+00	-3.22852915	0.55835297	-1.007563e+00	-0.84208001
GTM	1.604687e+01	-54.50590652	59.80517508	6.388608e+01	-1.19101817
GIN	7.522302e-03	-56.49018681	-7.54158880	-1.335128e+01	12.48218848
GNB	9.693625e+00	-19.52005516	4.76417293	4.658851e+00	3.80057572
GUY	1.032086e+00	-17.02365613	5.67586898	5.037530e+00	0.72639986
HTI	-1.470832e+01	-41.63385014	-6.70814335	1.162152e+00	23.45334817
HND	8.882741e-01	-3.95624459	42.24062453	6.734561e+01	-5.80283435
HUN	-3.841313e+01	-36.66186576	0.87646688	5.299681e+00	-8.21383670
ISL	-5.059346e+00	-3.08094712	-5.14276493	-3.429989e+00	-1.04315116
IND	4.472003e+01	741.44268960	71.55323060	8.784073e+01	63.93562199
IDN	-3.889051e+00	-72.37025159	202.43039925	1.679486e+02	-35.21203176
IRN	1.431120e+02	-66.94457365	-33.73546704	-4.793929e+01	35.98998300

IRQ	3.291377e+01	-83.17958548	-26.62153458	-4.791003e+01	33.63044151
IRL	-2.002392e+01	6.11658488	-15.80897034	-7.755458e+00	-3.70430270
ISR	-1.214114e+01	-22.65095885	-13.29763691	-8.903369e-01	-4.35704466
ITA	-7.357837e+01	-69.91088238	-34.91755204	-5.080686e+00	-21.81808740
JAM	-1.139972e+01	-20.34463726	-14.46221335	-1.184697e+01	-3.11362621
JPN	-1.375768e+02	-147.31846862	-57.70792130	-1.474746e+01	-22.69501625
JOR	2.349054e+01	-29.79613080	-6.08420475	-8.566048e+00	17.13933687
KAZ	-5.639746e+00	-4.93596862	47.91336926	2.903287e+01	10.05968613
KEN	-2.231128e+01	-95.83574310	60.96650736	6.351593e+01	9.90240158
KIR	-7.642740e-01	-1.04734102	-0.62817147	-1.200266e-01	-0.85767173
KWT	2.609039e+01	-18.32501389	-3.37524475	-5.292938e+00	3.30072690
KGZ	7.710765e+00	-21.66774785	39.15644589	2.086765e+01	0.95104654
LAO	5.299056e+00	-8.22768673	3.69363905	1.069980e+01	-0.52517801
LVA	-1.679550e+01	-35.96268049	-12.81149815	-9.267479e+00	7.80723775
LBN	-1.069562e+01	-25.89392115	-10.04244678	-1.536922e+01	2.75632909
LSO	8.325001e+00	-26.24409581	-16.21812614	-1.698571e+01	7.25232955
LBR	-4.539909e+00	-34.60698012	7.39961601	6.024843e+00	6.62456716
LBY	5.780511e+01	-23.28263863	-3.61254660	-8.488877e+00	9.31621996
LTU	-2.013642e+01	-39.44726055	-6.31750464	2.239910e+00	-2.02558013
LUX	-5.364906e+00	-4.25409658	-1.72963982	1.861279e+00	-1.80373595
MDG	-9.071477e+00	-52.83753931	4.30506790	-2.287181e+00	4.69591867
MWI	-8.016558e+00	-66.54184989	12.08371816	8.069002e+00	6.05961469
MYS	6.492702e+01	-44.95517808	3.67544815	2.524201e+01	-1.73727504
MDV	-1.519709e+00	2.34184142	-0.69541497	-1.989052e+00	1.30737761
MLI	-2.193723e+01	-81.56933536	-26.08048834	-2.853048e+01	19.06952496
MLT	-7.287204e+00	-6.75577497	-5.87858472	-3.532771e+00	-1.97389485
MHL	6.786562e-01	-0.72577630	-0.31765777	-5.109329e-01	0.18128175
MRT	1.876664e+01	-25.70101612	2.46016649	2.553425e+00	2.44737652
MUS	-4.519064e+00	-8.84085043	-1.40930958	-4.585006e+00	-0.14148129
MEX	3.881144e+01	-69.21201931	190.56752077	2.018963e+02	-9.37752702
FSM	6.244775e-01	-1.27889181	-0.98500283	-1.429051e+00	-0.64121724
MDA	-1.904246e+01	-39.78771388	47.71956015	3.474567e+01	1.08513803
MCO	-2.797761e+00	-2.96677163	-1.87273670	-1.276847e+00	-1.02542621
MNG	4.941503e+00	-33.69536958	37.69399945	2.962434e+01	6.58787895
MNE	-7.402839e+00	-19.03841165	-9.91584388	-9.396808e+00	-0.47240383
MAR	6.236714e+01	-55.81395943	-18.98546041	-3.016952e+01	16.70435849
MOZ	-6.873692e+00	-111.35622000	-51.83971072	-4.428506e+01	7.91910334
MMR	-3.448369e+01	82.16279990	90.83813030	5.045199e+01	-18.97061192
NAM	8.345578e+00	-15.90218983	-7.35906521	-4.943743e+00	8.14526686
NRU	1.383803e+00	-0.77639425	0.22914337	-5.727535e-01	-0.35934715
NPL	-2.189232e+01	242.31189058	41.48559204	2.805001e+01	-9.77016594
NLD	-4.330827e+01	-0.06079318	-35.02533823	-5.584469e+00	-11.17125892
NZL	-1.385265e+01	0.21032972	-20.01288581	-1.169825e+01	-5.36525881

NIC	3.953177e+00	-17.76573406	30.06711360	2.391873e+01	-4.62599822
NER	-1.711934e+01	-83.88572848	-20.44717821	-1.904624e+01	18.72551259
NGA	-7.598631e+01	-261.89088423	7.42276398	9.537432e+00	20.05253929
NIU	-6.367565e-01	-0.28562408	-0.70757169	1.710485e-01	-0.19207905
PRK	4.555988e+01	116.26927684	-14.82064874	-1.758567e+01	-7.96036579
MKD	-1.568556e+01	-27.23916765	-13.16824930	-1.624983e+01	-5.14349912
MNP	-5.796748e-01	-1.68598707	1.22637709	7.194620e-01	-0.83970024
NOR	-2.251999e+01	-1.06295007	-21.51743233	-9.829253e+00	-2.82465190
OMN	1.127226e+02	-21.80446761	-2.22905906	-8.841028e+00	-0.41907085
PAK	-6.829238e+01	-66.90150948	30.80566041	-1.626611e+01	-2.07649274
PLW	-6.950300e-01	0.60514312	-0.63587441	-1.162763e+00	0.91383636
PSE	2.330145e+00	-20.37656775	-3.36012433	-8.301427e+00	1.52965022
PAN	5.234561e+00	-14.62982444	-0.76608992	1.058605e+00	-2.60608733
PNG	2.271349e+01	38.66960341	-25.79637961	-3.020138e+01	51.73065508
PRY	2.957031e+01	-26.25486343	-4.49945995	3.557898e+00	-0.81543964
PER	2.604633e+01	-39.12422755	44.72118137	5.692809e+01	-1.53319072
PHL	-2.182529e+01	-56.06479176	-17.57175566	-4.419096e+00	-6.93372509
POL	-5.377634e+01	-109.33005420	-22.32428208	-5.301305e+00	-9.33701213
PRT	-3.093464e+01	-13.41107840	-17.52022262	2.014426e+00	-4.96264005
PRI	-1.103569e+01	-10.37762491	5.63906249	4.413886e+00	-3.82393770
QAT	6.847887e+01	-14.10165255	6.25278717	1.966587e+00	9.14323936
ROU	-4.786212e+01	-85.38012091	37.42058949	1.854832e+01	-6.04651969
RUS	-9.500639e+01	-265.15939387	-9.36543389	2.637311e+01	50.02956196
RWA	2.475255e+01	-34.90165406	19.09642679	2.142240e+01	7.12027685
KNA	-1.438454e+00	-4.24770725	-0.30026145	2.770220e-01	1.01921518
LCA	-6.819127e-01	-4.12846465	-0.57965695	-6.870276e-01	0.14758324
VCT	-2.525603e+00	-6.34091107	-1.48507860	-6.225840e-01	0.70198270
WSM	7.089539e-01	0.85466974	-0.99578128	-9.535379e-01	-0.43296912
SMR	-1.400533e+00	-2.38644751	-0.01333774	9.513915e-03	-0.78023080
STP	-4.702243e-02	1.06814185	4.75433122	3.154007e+00	-0.69170840
SAU	3.722936e+02	-54.67063806	10.41111346	-9.838973e+00	30.50938574
SEN	-4.185080e-01	-44.47266922	2.21383029	7.277240e+00	8.58842368
SRB	-3.674065e+01	-52.43819881	-31.69374876	-1.713512e+01	-8.79163045
SYC	-3.092486e-01	-3.60797047	2.59362572	2.384869e+00	0.31329323
SLE	2.237547e+00	-48.60138547	-13.16338723	-1.280853e+01	9.02346252
SGP	-1.483160e+01	-22.80141207	-14.56174563	-1.458570e+01	-4.85830117
SVK	-2.249981e+01	-46.53861104	5.94259502	8.839272e+00	-4.66301967
SVN	-1.482764e+01	-22.66286500	0.94680630	5.757813e+00	-4.72625651
SLB	2.470992e+00	-3.96088975	-1.98924541	-5.069468e+00	2.34477362
SOM	-2.793461e+00	-76.56969303	-10.39088584	-2.044091e+01	15.41570485
ZAF	7.804416e+01	-103.74269586	-68.39296424	-6.948543e+01	35.82231079
KOR	-4.424651e-01	-51.18510435	20.48433097	2.213295e+01	-3.38218387
SSD	-1.319577e+01	-53.55747829	-3.07436652	-8.685314e+00	10.21404553

ESP	-6.931783e+01	38.77744778	-28.24928967	2.836910e+01	-20.89719489
LKA	7.705761e+00	42.20055998	13.73497044	-1.092909e+01	5.72981382
SDN	5.280228e+01	-55.74683906	-12.38846273	-2.545395e+01	38.07485268
SUR	1.133609e+00	-11.09208292	1.42236001	4.120246e+00	1.21150005
SWE	-3.650978e+01	-26.40362940	-27.84122565	-1.543743e+01	-6.95037559
CHE	-2.955454e+01	-26.03267183	-17.22547622	-2.282836e+00	-8.25789973
SYR	1.773353e+00	-37.51141890	-4.69711086	-2.137618e+01	-1.73570003
TWN	-1.884846e+00	-30.40922203	33.87421323	3.508923e+01	-11.90915701
TJK	-1.030990e+01	-31.17848420	26.19176362	9.893755e+00	16.68527275
TZA	-1.669730e+01	-114.14755374	-3.52114498	-7.411681e+00	20.44373377
THA	8.708542e+01	-63.77158521	57.63468090	6.704270e+01	-9.72964977
TLS	-4.416127e-01	-1.33498895	0.55583432	4.353622e+00	-0.58484301
TGO	1.051931e+01	-40.13160654	-2.41836813	-6.948031e-01	4.95948660
TKL	-4.502548e-01	0.43841145	-0.50032870	-6.663869e-01	-0.13582039
TON	-1.108888e+00	-0.73488617	0.40249530	1.279890e+00	1.47641104
TTO	-4.028781e+00	-20.04725750	-6.82488278	-2.940579e+00	-0.43859634
TUN	2.720208e+01	-32.36312965	-9.94242237	-1.693236e+01	6.59737008
TUR	-1.982492e+01	5.27719898	-42.29925887	-4.669690e+01	-16.06092456
TKM	-1.745161e+01	-43.00104293	48.07840270	2.870681e+01	5.42334248
TUV	4.736315e-01	-0.22606386	-0.49215950	-4.123676e-01	-0.46170095
UGA	9.503764e+00	-88.06908945	-10.96319613	-1.320961e+01	7.54098115
UKR	-6.962992e+01	-180.86503945	8.17217662	-1.607979e+01	20.16407798
ARE	1.337997e+02	-4.80095478	-8.55427199	-1.555773e+01	18.06848384
GBR	-9.231485e+01	42.57068915	-48.54563161	3.265243e+01	-24.01524346
USA	-8.765430e+01	41.76228299	-35.46271025	-1.141310e+01	-29.47376823
VIR	-2.402695e+00	-6.53695523	-0.12549087	-2.125773e-01	-0.34404444
URY	-5.611084e+00	-4.12098407	-13.69683234	9.419970e-01	0.16069465
UZB	5.157060e+00	-95.95395295	100.30342379	5.430230e+01	12.55765312
VUT	2.873669e+00	1.21439686	-1.23040710	-9.403965e-01	-0.19268908
VEN	3.545893e+01	-55.93496053	-3.11606486	8.321345e-01	-9.10604576
VNM	9.152537e+01	-44.31641979	54.18142355	1.320876e+01	-18.63276983
YEM	1.385363e+02	-58.06028042	-24.33225125	-3.198243e+01	28.05726460
ZMB	-7.059179e+00	-70.85744469	23.96500380	1.208770e+01	5.15154858
ZWE	-3.250343e+00	-67.16292603	-22.43708923	-1.846099e+01	25.80341972

C31

AFG	91.43770793
ALB	-5.51883812
DZA	-1.25427024
ASM	-0.72447127
AND	0.15744637
AGO	-0.40065564
ATG	-0.91798314
ARG	-20.60512054

ARM	-6.07298275
AUS	-14.68367531
AUT	-10.50492302
AZE	-8.24222487
BHS	-1.93271703
BHR	-0.78747652
BGD	94.04819786
BRB	-2.03953311
BLR	-11.84709988
BEL	-12.15772245
BLZ	-1.66569497
BEN	4.09783558
BMU	-0.90115252
BTN	1.73298979
BOL	-8.49623236
BIH	-6.95991402
BWA	-4.04836676
BRA	-39.29451336
BRN	0.26679453
BGR	-12.83628206
BFA	2.71844621
BDI	8.78746006
KHM	11.55994197
CMR	5.98038421
CAN	-19.43258489
CPV	-0.44372820
CAF	3.09829751
TCD	14.21039848
CHL	-12.35202926
CHN	-103.62956334
COL	-17.89282134
COM	1.84699681
COG	-2.57991404
COK	-0.49046849
CRI	-5.36824079
CIV	-1.74899621
HRV	-8.51796187
CUB	-11.83739208
CYP	-3.17345708
CZE	-12.53648829
COD	9.80042435
DNK	-8.58531629
DJI	1.07599574

DMA	-1.00950822
DOM	-5.79149000
ECU	-10.43210366
EGY	16.10270765
SLV	-6.84666740
GNQ	-2.30669416
ERI	7.12428319
EST	-4.78803757
SWZ	-2.57460157
ETH	30.84337792
FJI	-2.61062200
FIN	-8.66781109
FRA	-28.26145037
GAB	-1.87720134
GMB	0.63181359
GEO	-7.58627436
DEU	-36.18958860
GHA	-0.26476592
GRC	-10.72196906
GRL	-0.81447169
GRD	-1.06297347
GUM	-1.27099190
GTM	-10.43981356
GIN	9.08651121
GNB	3.33031116
GUY	-2.43535977
HTI	-4.45920319
HND	-6.13470313
HUN	-13.44923781
ISL	-1.71231060
IND	175.25357948
IDN	62.42974290
IRN	-3.49777262
IRQ	-8.18331320
IRL	-6.57913485
ISR	-7.71388245
ITA	-27.48003810
JAM	-4.83701512
JPN	-42.90150078
JOR	-4.96677995
KAZ	-12.84802994
KEN	51.75421023
KIR	1.06683009

KWT	-3.45533386
KGZ	-4.64507429
LAO	-3.16228209
LVA	-6.10930482
LBN	13.59021833
LSO	-3.30957244
LBR	3.67759994
LBY	0.08144833
LTU	-7.31700596
LUX	-2.40893961
MDG	1.35865326
MWI	10.71915621
MYS	-2.70586374
MDV	-1.41536135
MLI	8.26492057
MLT	-2.28786315
MHL	-0.77125890
MRT	-0.62561105
MUS	-3.67440565
MEX	-25.57103872
FSM	-1.15689378
MDA	-7.74580166
MCO	-0.86482694
MNG	-3.59605547
MNE	-3.13072257
MAR	3.53403699
MOZ	6.25994954
MMR	-14.06948259
NAM	-3.65740477
NRU	-0.30306725
NPL	16.53239683
NLD	-14.33766797
NZL	-6.75647334
NIC	-5.60322972
NER	6.41349907
NGA	9.84519678
NIU	-0.16199619
PRK	-11.71684733
MKD	-5.73758358
MNP	-0.70818883
NOR	-7.24366200
OMN	3.35777352
PAK	144.49308400

PLW	-0.54268144
PSE	-3.54769396
PAN	-5.10581542
PNG	-0.11630851
PRY	-6.60367467
PER	-12.71560600
PHL	-25.35677582
POL	-23.80983536
PRT	-12.50737514
PRI	-6.35155469
QAT	-1.63804013
ROU	-19.50849580
RUS	-50.61534763
RWA	8.25731272
KNA	-0.83915845
LCA	-1.40138562
VCT	-1.19593314
WSM	-0.67014445
SMR	-0.65803333
STP	0.50547200
SAU	-8.13629653
SEN	-1.32989616
SRB	-12.74406631
SYC	-1.06912784
SLE	5.27195801
SGP	-5.54321667
SVK	-8.67664866
SVN	-5.24587913
SLB	0.52234688
SOM	46.91756605
ZAF	-22.67530810
KOR	-20.14555514
SSD	9.28581696
ESP	-24.02724876
LKA	-12.20372993
SDN	50.09361515
SUR	-2.05062692
SWE	-11.16040953
CHE	-9.39436126
SYR	-9.90781850
TWN	-15.72987542
TJK	0.33563144
TZA	7.33509056

```

THA -19.40354124
TLS -1.48012954
TGO 1.50311281
TKL -0.11454860
TON 3.17707175
TTO -3.81179608
TUN -0.89909554
TUR -20.23174298
TKM -1.01582330
TUV -0.38939069
UGA 3.66354458
UKR -29.96728319
ARE 4.69382597
GBR -28.83055392
USA -63.93869394
VIR -1.34782180
URY -6.69867878
UZB -9.96319982
VUT -0.07594633
VEN -14.99068689
VNM -7.62671926
YEM 18.81772832
ZMB 6.69298533
ZWE -3.27589372

```

```
# Sous l'hyp H0 d'indépendance, les profils attendus pour différents départements sont égaux
resu.chi2$expected["FRA",] / sum(resu.chi2$expected["FRA",])
```

C1	C2	C3	C4	C5	C6
0.0043427395	0.0298443498	0.0066718638	0.0046246780	0.0118316124	0.0043608585
C7	C8	C9	C10	C11	C12
0.0076183730	0.0036110275	0.0158758212	0.0023554290	0.0216918812	0.3412660321
C13	C14	C15	C16	C17	C18
0.0458303564	0.0346076333	0.0030890909	0.0139561488	0.0001116938	0.0282136611
C19	C20	C21	C22	C23	C24
0.0008726904	0.1853151928	0.0011576273	0.0285045947	0.0262362655	0.0014187980
C25	C26	C27	C28	C29	C30
0.0039011885	0.0220292619	0.0730770349	0.0270616074	0.0470211865	0.0020454935
C31					
0.0014558085					

```
resu.chi2$expected["MLI",] / sum(resu.chi2$expected["MLI",])
```

C1	C2	C3	C4	C5	C6
0.0043427395	0.0298443498	0.0066718638	0.0046246780	0.0118316124	0.0043608585
C7	C8	C9	C10	C11	C12
0.0076183730	0.0036110275	0.0158758212	0.0023554290	0.0216918812	0.3412660321
C13	C14	C15	C16	C17	C18
0.0458303564	0.0346076333	0.0030890909	0.0139561488	0.0001116938	0.0282136611
C19	C20	C21	C22	C23	C24
0.0008726904	0.1853151928	0.0011576273	0.0285045947	0.0262362655	0.0014187980
C25	C26	C27	C28	C29	C30
0.0039011885	0.0220292619	0.0730770349	0.0270616074	0.0470211865	0.0020454935
C31					
0.0014558085					

Afin d'évaluer statistiquement l'existence d'un lien entre les pays et les causes de décès, un test du khi-deux d'indépendance est réalisé à partir du tableau de contingence. L'hypothèse nulle H0 suppose l'indépendance entre le pays et la cause de décès, tandis que l'hypothèse alternative H1 postule l'existence d'une dépendance entre ces deux variables.

Le test met en évidence une statistique du khi-deux très élevée (36 396 969) associée à une p-value nulle, conduisant au rejet de l'hypothèse d'indépendance au seuil usuel. Cela suggère que la répartition des causes de décès diffère significativement selon les pays considérés. Toutefois, l'interprétation de ce résultat doit être nuancée, car la structure du tableau, notamment la présence de nombreux effectifs élevés et de fortes disparités entre pays limite la pertinence stricte du test du khi-deux.

Afin de quantifier l'intensité de la liaison entre les deux variables, le coefficient de V de Cramér est calculé. La valeur obtenue étant 0.149 indique une liaison faible entre le pays et la cause de décès, malgré le rejet de l'hypothèse d'indépendance. Ce résultat souligne que la dépendance statistique observée est réelle mais modérée.

L'examen des effectifs attendus sous l'hypothèse d'indépendance ainsi que des résidus standardisés permet d'identifier les principales contributions au khi-deux. Ces écarts traduisent des phénomènes d'attraction et de répulsion : un résidu standardisé positif indique qu'un pays et une cause se rencontrent plus fréquemment que prévu (attraction), tandis qu'un résidu standardisé négatif montre une occurrence moindre que prévu (répulsion). Un résidu supérieur à 2 ou inférieur à -2 est généralement considéré comme significatif.

À titre d'illustration, le Bangladesh (BGD) présente un résidu standardisé de -99,09 pour la malaria (C5), ce qui traduit une répulsion extrêmement marquée : cette cause est très fortement sous-représentée dans ce pays par rapport à ce qui serait attendu sous l'hypothèse d'indépendance. À l'inverse, l'Afghanistan (AFG) affiche un résidu standardisé très élevé

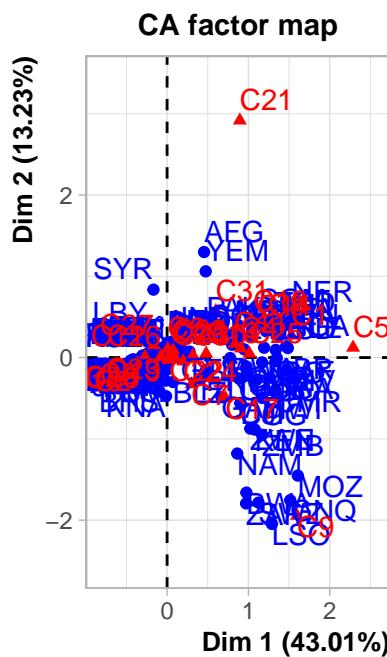
(116,45) pour les troubles maternels (C8), indiquant une attirance très forte entre ce pays et cette cause de décès, largement surreprésentée par rapport au modèle d'indépendance.

4.2 Lancement de l'AFC

```
#Lancement de l'AFC avec R

library(FactoMineR)

# AFC avec lignes actives = les 204 pays
pres.afc <- CA(morts[1:204,])
```



```
# Eboulis des valeurs propres
```

```
library(factoextra)
pres.afc$eig
```

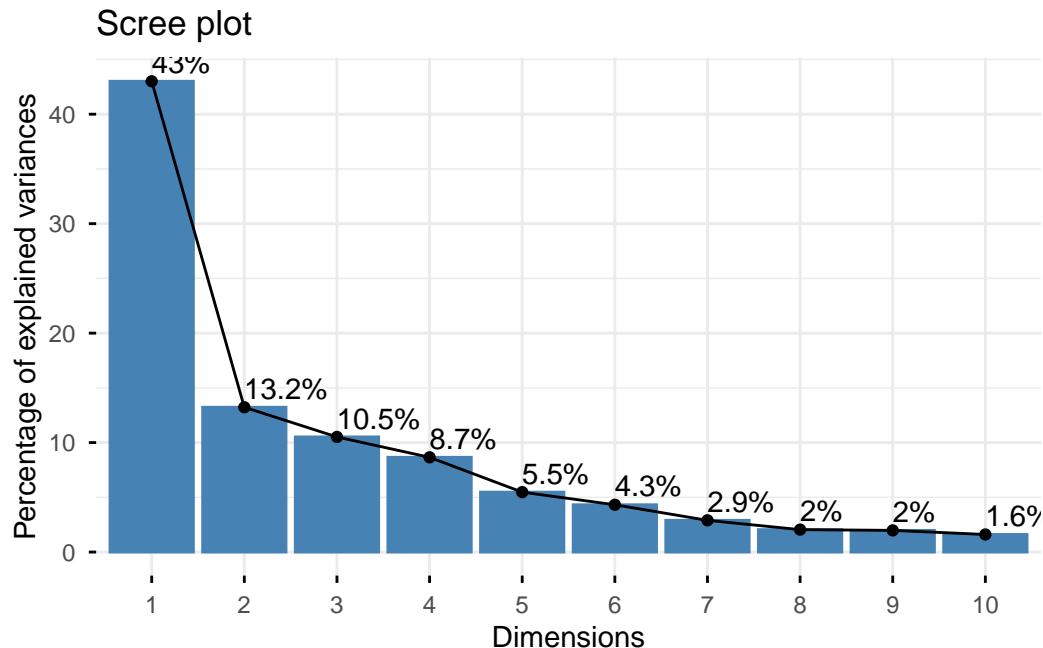
	eigenvalue	percentage of variance	cumulative percentage of variance
dim 1	2.879531e-01	43.008992105	43.00899

dim 2	8.856327e-02	13.227908630	56.23690
dim 3	7.040802e-02	10.516220550	66.75312
dim 4	5.794988e-02	8.655459441	75.40858
dim 5	3.663964e-02	5.472536961	80.88112
dim 6	2.892649e-02	4.320493435	85.20161
dim 7	1.940163e-02	2.897849533	88.09946
dim 8	1.371023e-02	2.047774987	90.14724
dim 9	1.324817e-02	1.978761606	92.12600
dim 10	1.074718e-02	1.605210155	93.73121
dim 11	1.043798e-02	1.559028905	95.29024
dim 12	6.646055e-03	0.992662261	96.28290
dim 13	5.118583e-03	0.764517287	97.04742
dim 14	4.287202e-03	0.640341314	97.68776
dim 15	3.855132e-03	0.575806791	98.26356
dim 16	2.672064e-03	0.399102428	98.66267
dim 17	2.554353e-03	0.381520976	99.04419
dim 18	1.589897e-03	0.237468757	99.28166
dim 19	9.481969e-04	0.141623744	99.42328
dim 20	8.720465e-04	0.130249843	99.55353
dim 21	8.078866e-04	0.120666853	99.67420
dim 22	7.325013e-04	0.109407220	99.78360
dim 23	4.320702e-04	0.064534491	99.84814
dim 24	3.419578e-04	0.051075205	99.89921
dim 25	1.996364e-04	0.029817912	99.92903
dim 26	1.932988e-04	0.028871332	99.95790
dim 27	1.205122e-04	0.017999839	99.97590
dim 28	1.086474e-04	0.016227699	99.99213
dim 29	4.418177e-05	0.006599038	99.99873
dim 30	8.507578e-06	0.001270701	100.00000

```
#diagramme en baton pour étudier la décroissance de l'inertie des axes
```

```
fviz_eig(pres.afc, addlabels = TRUE)
```

```
Warning in geom_bar(stat = "identity", fill = barfill, color = barcolor, :
Ignoring empty aesthetic: `width`.
```



```
pres.afc$eig
```

	eigenvalue	percentage of variance	cumulative percentage of variance
dim 1	2.879531e-01	43.008992105	43.00899
dim 2	8.856327e-02	13.227908630	56.23690
dim 3	7.040802e-02	10.516220550	66.75312
dim 4	5.794988e-02	8.655459441	75.40858
dim 5	3.663964e-02	5.472536961	80.88112
dim 6	2.892649e-02	4.320493435	85.20161
dim 7	1.940163e-02	2.897849533	88.09946
dim 8	1.371023e-02	2.047774987	90.14724
dim 9	1.324817e-02	1.978761606	92.12600
dim 10	1.074718e-02	1.605210155	93.73121
dim 11	1.043798e-02	1.559028905	95.29024
dim 12	6.646055e-03	0.992662261	96.28290
dim 13	5.118583e-03	0.764517287	97.04742
dim 14	4.287202e-03	0.640341314	97.68776
dim 15	3.855132e-03	0.575806791	98.26356
dim 16	2.672064e-03	0.399102428	98.66267
dim 17	2.554353e-03	0.381520976	99.04419
dim 18	1.589897e-03	0.237468757	99.28166
dim 19	9.481969e-04	0.141623744	99.42328

dim 20	8.720465e-04	0.130249843	99.55353
dim 21	8.078866e-04	0.120666853	99.67420
dim 22	7.325013e-04	0.109407220	99.78360
dim 23	4.320702e-04	0.064534491	99.84814
dim 24	3.419578e-04	0.051075205	99.89921
dim 25	1.996364e-04	0.029817912	99.92903
dim 26	1.932988e-04	0.028871332	99.95790
dim 27	1.205122e-04	0.017999839	99.97590
dim 28	1.086474e-04	0.016227699	99.99213
dim 29	4.418177e-05	0.006599038	99.99873
dim 30	8.507578e-06	0.001270701	100.00000

```
# Inertie totale

# Total du tableau (nb total de votes à l'issue du 1er tour)
tot <- sum(morts[1:204,])

# Inertie totale = D2/n
resu.chi2$statistic/tot # La statistique D2/n est également appelée Phi2
```

X-squared
0.6695183

```
# Inertie totale = somme des valeurs propres
sum(pres.afc$eig[,1])
```

[1] 0.6695183

```
# On détermine le nombre d'axes intéressants de 2 façons différentes :

# Critère de Kaiser

inertie_totale <- sum(pres.afc$eig[, 1])
nb_axes <- nrow(pres.afc$eig)
inertie_moyenne <- inertie_totale / nb_axes
inertie_moyenne
```

[1] 0.02231728

```
pres.afc$eig
```

	eigenvalue	percentage of variance	cumulative percentage of variance
dim 1	2.879531e-01	43.008992105	43.00899
dim 2	8.856327e-02	13.227908630	56.23690
dim 3	7.040802e-02	10.516220550	66.75312
dim 4	5.794988e-02	8.655459441	75.40858
dim 5	3.663964e-02	5.472536961	80.88112
dim 6	2.892649e-02	4.320493435	85.20161
dim 7	1.940163e-02	2.897849533	88.09946
dim 8	1.371023e-02	2.047774987	90.14724
dim 9	1.324817e-02	1.978761606	92.12600
dim 10	1.074718e-02	1.605210155	93.73121
dim 11	1.043798e-02	1.559028905	95.29024
dim 12	6.646055e-03	0.992662261	96.28290
dim 13	5.118583e-03	0.764517287	97.04742
dim 14	4.287202e-03	0.640341314	97.68776
dim 15	3.855132e-03	0.575806791	98.26356
dim 16	2.672064e-03	0.399102428	98.66267
dim 17	2.554353e-03	0.381520976	99.04419
dim 18	1.589897e-03	0.237468757	99.28166
dim 19	9.481969e-04	0.141623744	99.42328
dim 20	8.720465e-04	0.130249843	99.55353
dim 21	8.078866e-04	0.120666853	99.67420
dim 22	7.325013e-04	0.109407220	99.78360
dim 23	4.320702e-04	0.064534491	99.84814
dim 24	3.419578e-04	0.051075205	99.89921
dim 25	1.996364e-04	0.029817912	99.92903
dim 26	1.932988e-04	0.028871332	99.95790
dim 27	1.205122e-04	0.017999839	99.97590
dim 28	1.086474e-04	0.016227699	99.99213
dim 29	4.418177e-05	0.006599038	99.99873
dim 30	8.507578e-06	0.001270701	100.00000

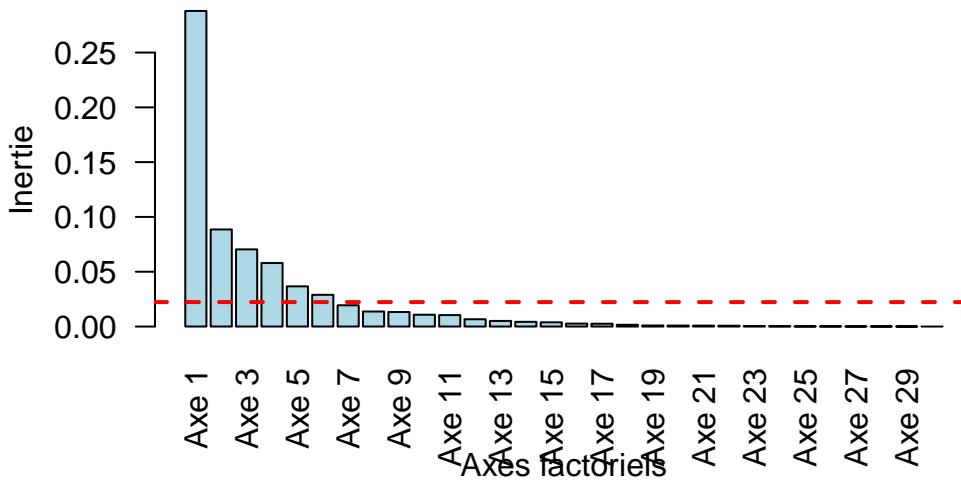
```
inertie_axes <- pres.afc$eig[, 1]
barplot(
  inertie_axes,
  names.arg = paste("Axe", 1:length(inertie_axes)),
  main = "Décroissance de l'inertie des axes",
  xlab = "Axes factoriels",
  ylab = "Inertie",
```

```

    col = "lightblue",
    las = 2
)
# Ajout de la ligne de l'inertie moyenne
abline(
  h = inertie_moyenne,
  col = "red",
  lwd = 2,
  lty = 2
)

```

Décroissance de l'inertie des axes



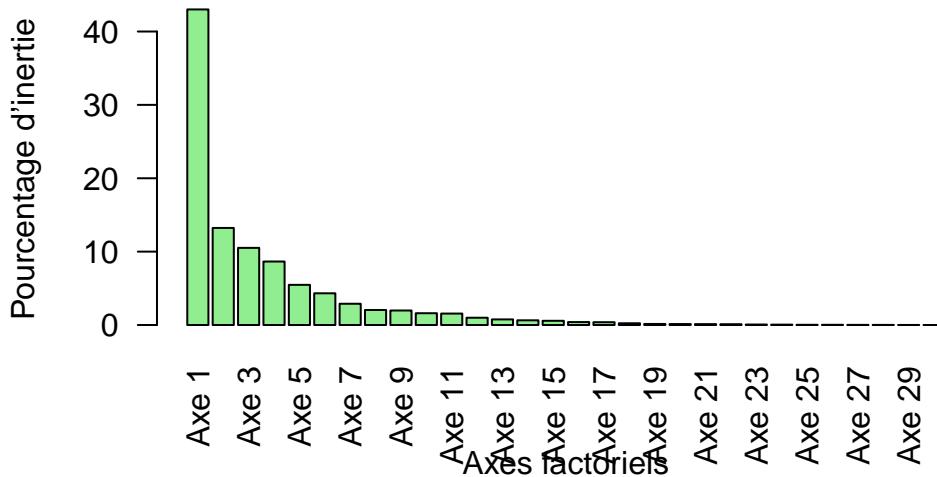
```

inertie_pct <- pres.afc$eig[, 2]

barplot(
  inertie_pct,
  names.arg = paste("Axe", 1:length(inertie_pct)),
  main = "Décroissance de l'inertie (en %)",
  xlab = "Axes factoriels",
  ylab = "Pourcentage d'inertie",
  col = "lightgreen",
  las = 2
)

```

Décroissance de l'inertie (en %)



```
#calcul de la valeur propre moyenne
```

```
mean(pres.afc$eig[,1])
```

```
[1] 0.02231728
```

```
# on note six axes dont l'inertie est supérieure
```

Pour explorer les relations entre les pays et les causes de décès, une analyse factorielle des correspondances (AFC) est réalisée. Cette méthode multivariée est particulièrement adaptée aux tableaux de contingence et permet de visualiser les dépendances entre lignes (pays) et colonnes (causes) tout en réduisant la dimensionnalité des données.

L'AFC est appliquée aux 204 pays du tableau, considérés comme lignes actives. Les valeurs propres associées aux axes factoriels sont examinées afin de déterminer la part d'inertie expliquée par chaque axe et d'identifier le nombre d'axes significatifs à retenir. La décroissance des valeurs propres est représentée graphiquement pour faciliter l'interprétation. La somme des valeurs propres correspond à l'inertie totale du tableau, qui peut également être calculée à partir de la statistique du khi-deux normalisée par l'effectif total (Phi2). Dans les deux cas la valeur trouvée est 0.6695183.

Le critère de Kaiser est utilisé pour identifier les axes factoriels dont l'inertie dépasse la moyenne qui est 0.02231728, indiquant qu'ils expliquent une proportion d'information supérieure à celle

attendue par hasard. Dans cette analyse, six axes présentent une inertie supérieure à la moyenne et sont donc retenus pour l'interprétation.

Les diagrammes de l'inertie totale et du pourcentage d'inertie permettent de visualiser la contribution relative de chaque axe à la structure globale des données, préparant ainsi l'interprétation des positions des pays et des causes sur les plans factoriels. Cette étape constitue un prérequis essentiel avant de produire les représentations graphiques des individus et des variables dans l'espace factoriel.

4.3 Critère du bâton brisé pour sélectionner les axes

```
# critère du baton brisé

# Charger la librairie nécessaire
library(PCDimension)

# Nombre d'axes factoriels (axes non nuls)
nb_axes <- nrow(pres.afc$eig)

# Inertie observée issue de l'AFC (en %)
# Colonne 2 de pres.afc$eig = pourcentage d'inertie
vp <- pres.afc$eig[, 2]

# Calcul du critère du bâton brisé (en %)
# brokenStick donne des proportions → on multiplie par 100
bs <- 100 * brokenStick(1:nb_axes, nb_axes)

# Comparaison numérique : axes pertinents
# TRUE = axe retenu
vp > bs

dim 1  dim 2  dim 3  dim 4  dim 5  dim 6  dim 7  dim 8  dim 9 dim 10 dim 11
TRUE    TRUE    TRUE    TRUE  FALSE  FALSE  FALSE  FALSE  FALSE  FALSE  FALSE
dim 12 dim 13 dim 14 dim 15 dim 16 dim 17 dim 18 dim 19 dim 20 dim 21 dim 22
```

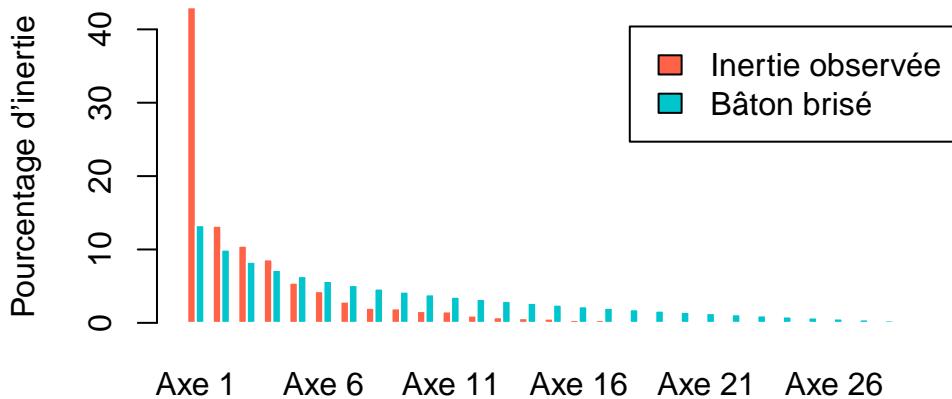
```
FALSE  
dim 23 dim 24 dim 25 dim 26 dim 27 dim 28 dim 29 dim 30  
FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
```

```
# Axes retenus selon le critère du bâton brisé  
which(vp > bs)
```

```
dim 1 dim 2 dim 3 dim 4  
1      2      3      4
```

```
barplot(  
  rbind(vp, bs),  
  beside = TRUE,  
  names.arg = paste("Axe", 1:nb_axes),  
  col = c("tomato1", "turquoise3"),  
  border = "white",  
  legend.text = c("Inertie observée", "Bâton brisé"),  
  main = "Sélection des axes par le critère du bâton brisé",  
  ylab = "Pourcentage d'inertie"  
)
```

Sélection des axes par le critère du bâton brisé



```
# avec broken stick on observe 4 axes interessants
```

Pour compléter l'identification des axes significatifs, le critère du bâton brisé est utilisé. Les valeurs propres observées sont ainsi mises en relation avec les proportions théoriques du bâton brisé, permettant de distinguer les axes apportant une information réelle de ceux qui ne contiennent qu'un bruit statistique.

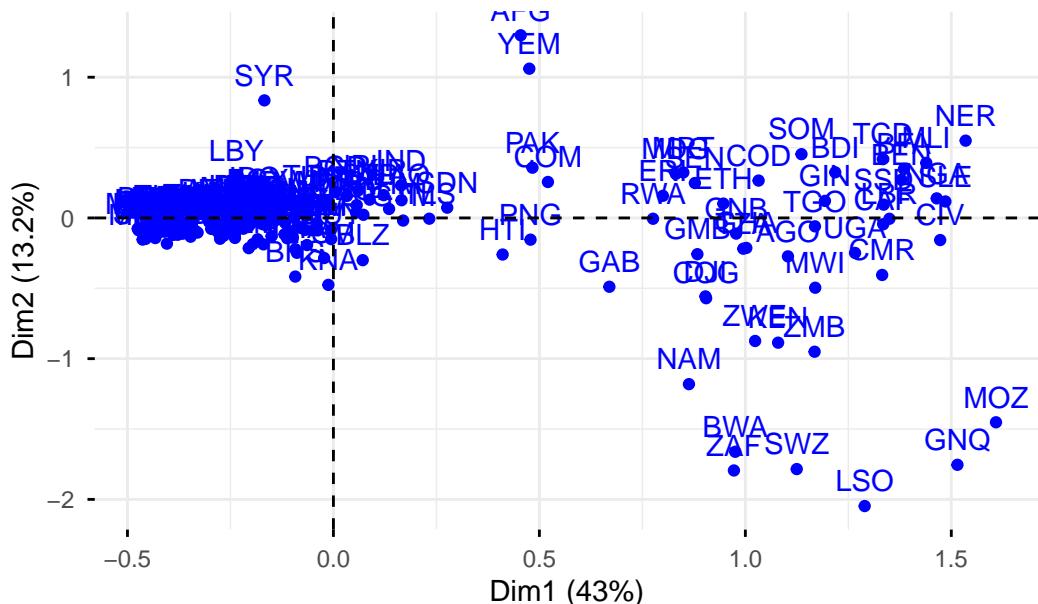
La comparaison numérique indique que les axes dont l'inertie observée dépasse celle du bâton brisé sont considérés comme pertinents. Dans cette analyse, quatre axes présentent une inertie supérieure à la valeur attendue par le bâton brisé et sont donc retenus pour l'interprétation factorielle.

Un diagramme comparatif illustre visuellement la sélection des axes : les barres rouges représentant l'inertie observée sont mises côte à côte avec celles du bâton brisé, représentées en bleu. Cette représentation permet de visualiser aisément quels axes dépassent le seuil et confirment leur pertinence pour l'étude des relations entre les pays et les causes de décès. Ce critère identifiant moins d'axes pertinents que le critère de Kaiser, son résultat sera privilégié pour la suite de l'analyse.

4.4 Analyse des contributions des lignes et colonnes

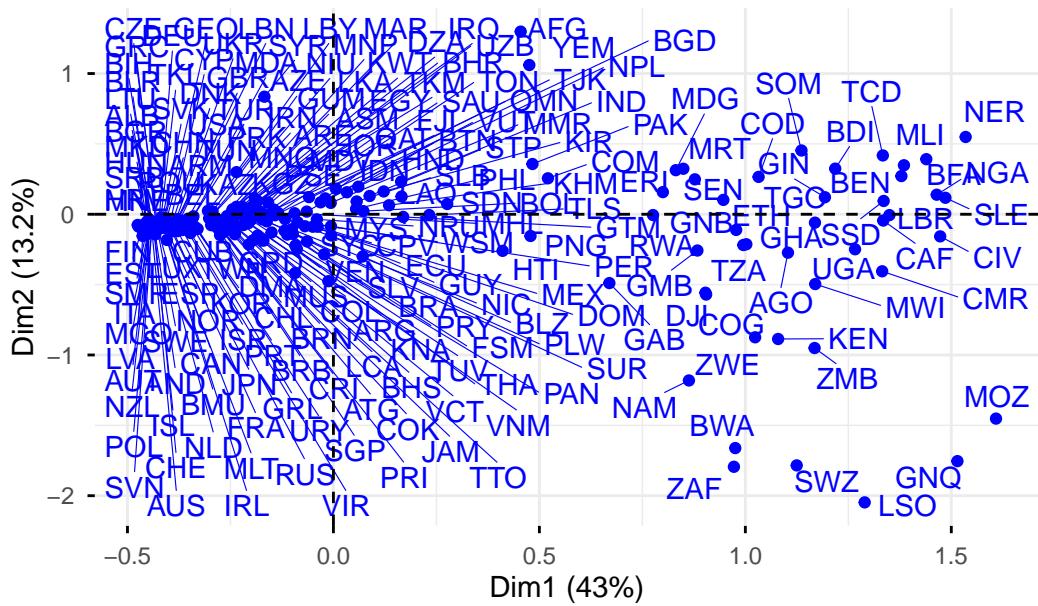
```
# Plan des modalités lignes  
fviz_ca_row(pres.afc)
```

Row points – CA



```
fviz_ca_row(pres.afc, repel=T)
```

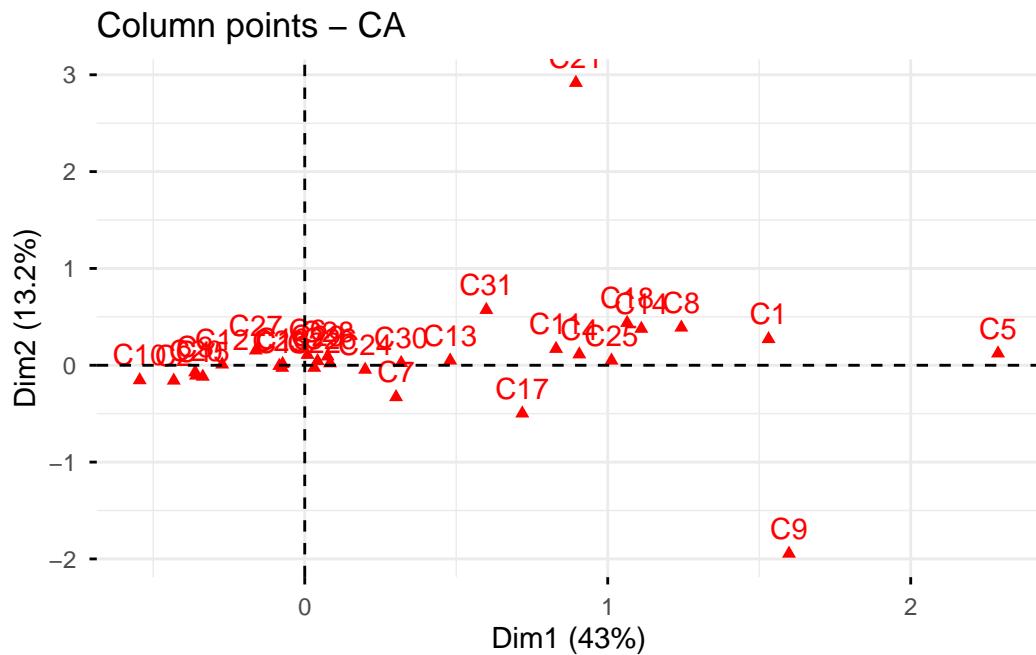
Row points – CA



```
?fviz_ca_row
```

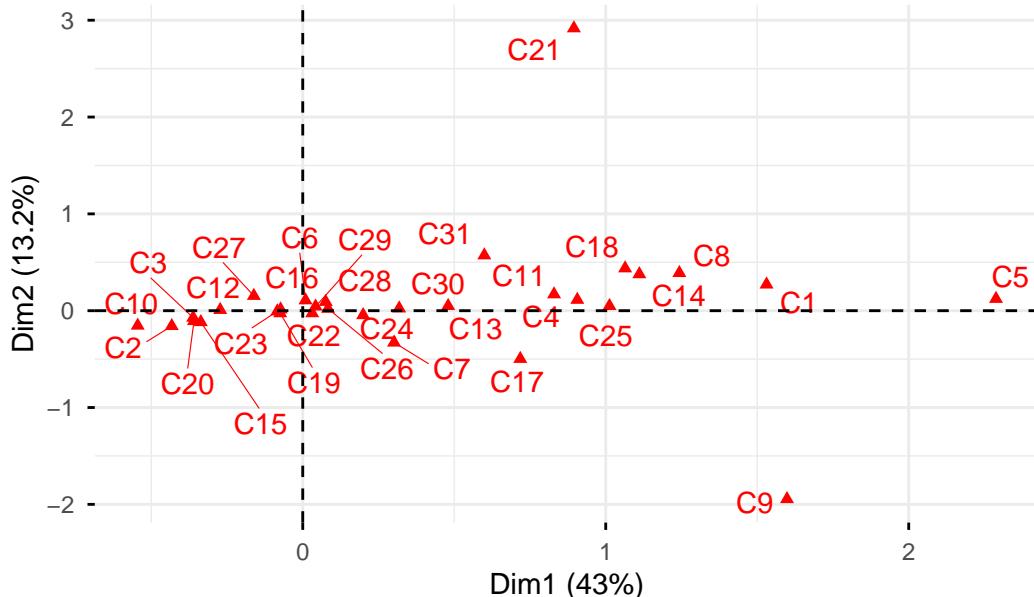
démarrage du serveur d'aide httpd ... fini

```
# Plan des modalités colonnes  
fviz_ca_col(pres.afc)
```



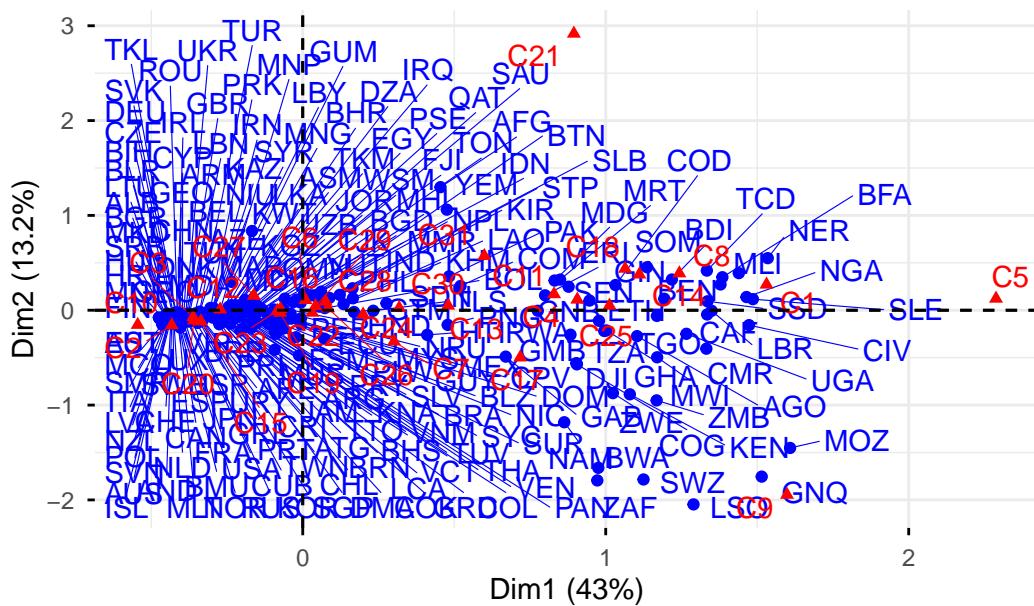
```
fviz_ca_col(pres.afc, repel=T)
```

Column points – CA

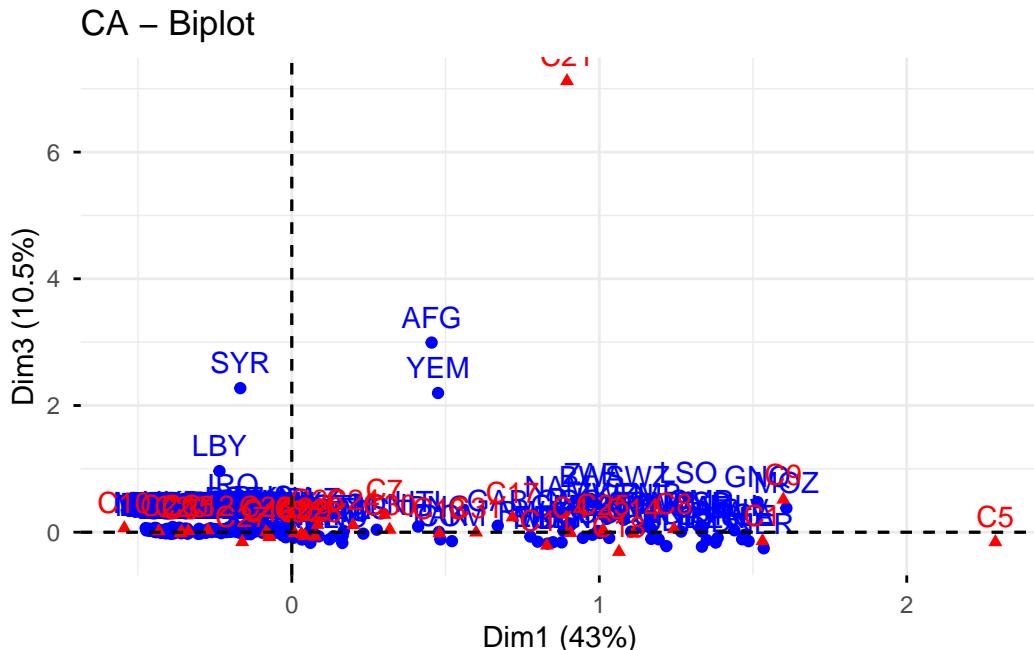


```
# Premier plan factoriel
fviz_ca_biplot(pres.afc, axes = c(1,2), repel = T) # meilleur plan
```

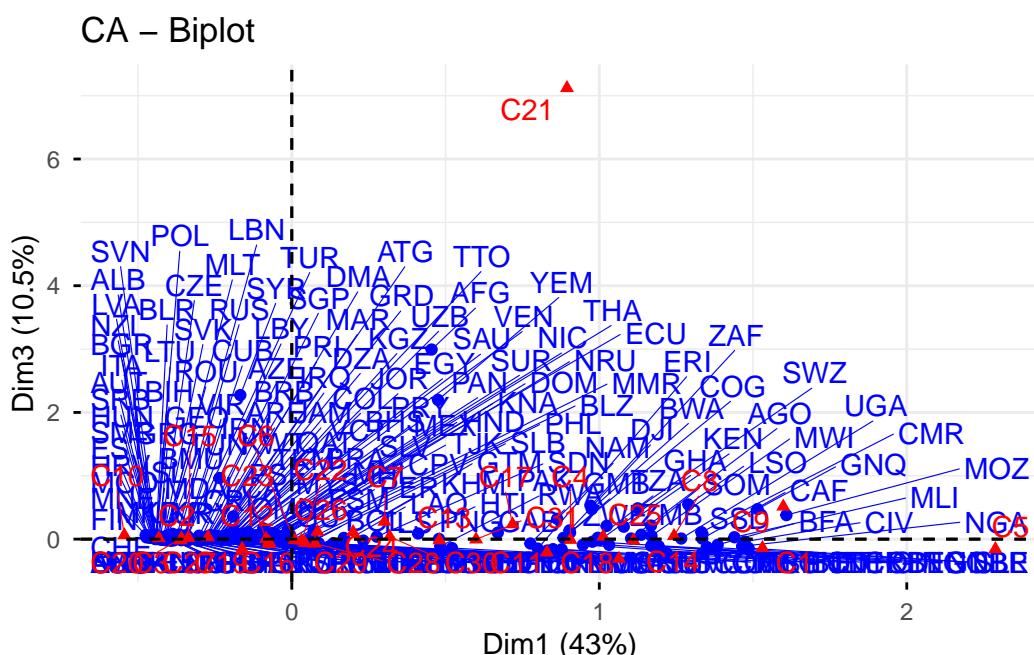
CA – Biplot



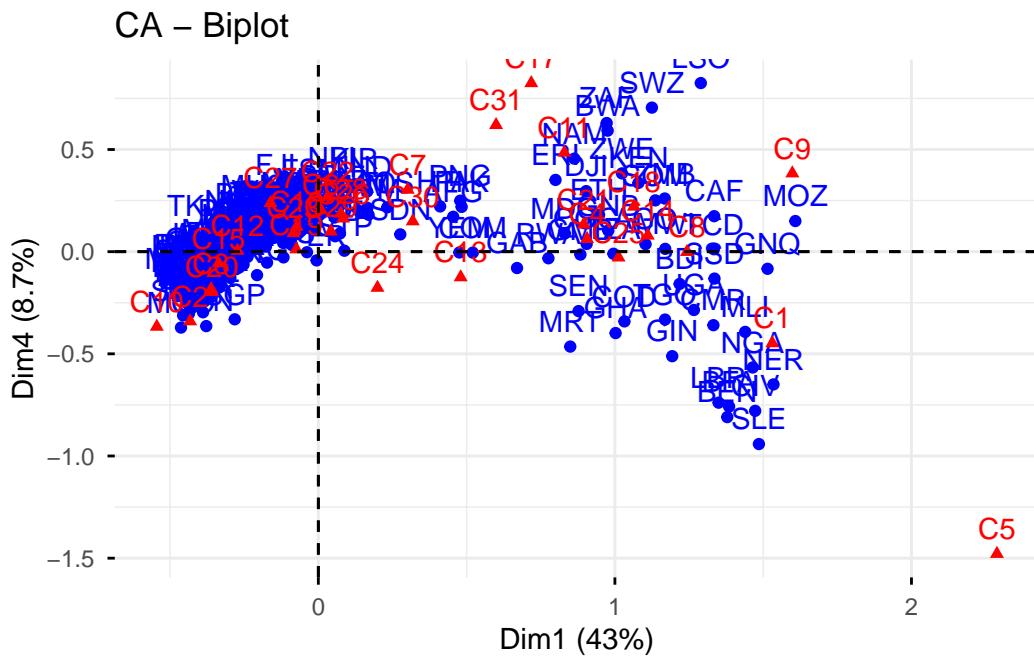
```
fviz_ca_biplot(pres.afc, axes = c(1,3))
```



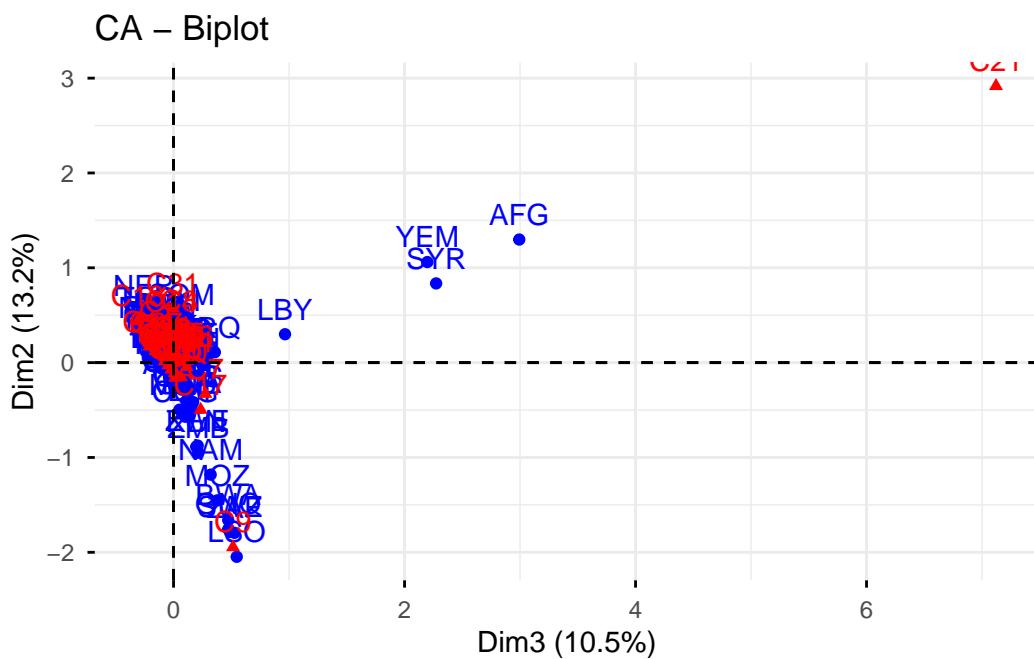
```
fviz_ca_biplot(pres.afc, axes = c(1,3), repel = T)
```



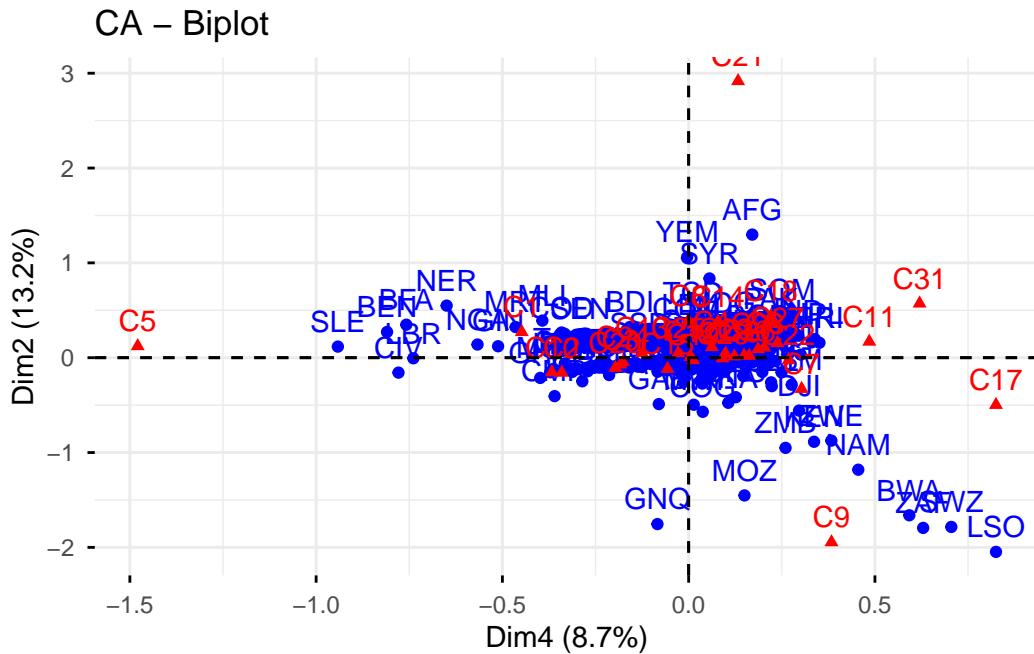
```
fviz_ca_biplot(pres.afc, axes = c(1,4))
```



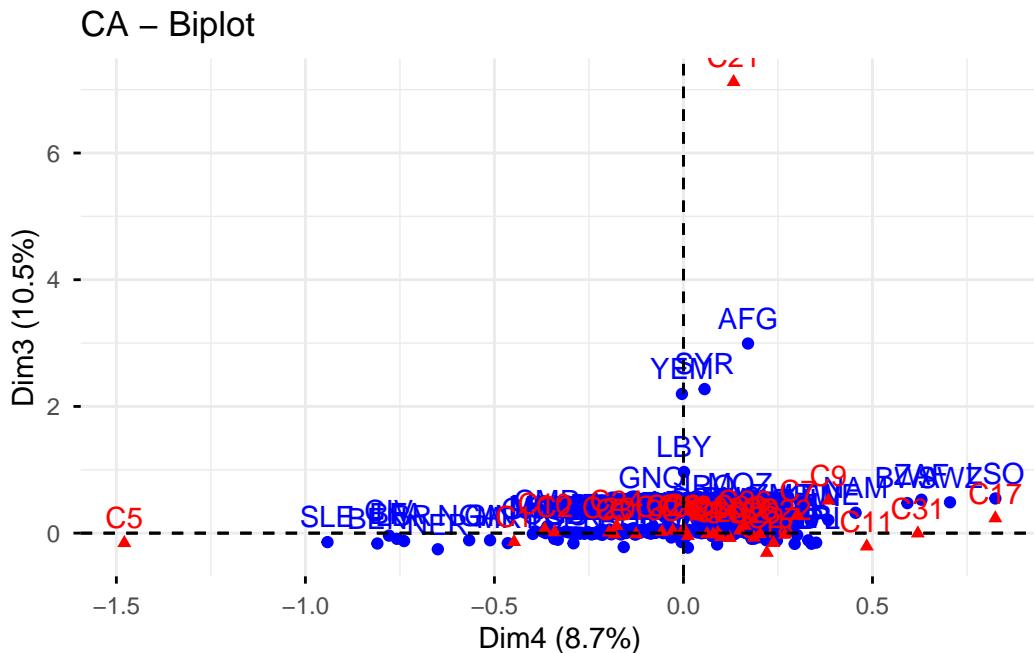
```
fviz_ca_biplot(pres.afc, axes = c(3,2))
```



```
fviz_ca_biplot(pres.afc, axes = c(4,2))
```



```
fviz_ca_biplot(pres.afc, axes = c(4,3))
```



```
#contributioob des lignes
```

```
sort(pres.afc$row$contrib[,1], T)
```

NGA	CHN	MOZ	COD	ZAF	ETH
1.972600e+01	1.097690e+01	4.112398e+00	3.546350e+00	3.051948e+00	3.040174e+00
USA	NER	MLI	CIV	UGA	CMR
2.704453e+00	2.617140e+00	2.494568e+00	2.356005e+00	2.281417e+00	2.168424e+00
KEN	BFA	PAK	TZA	TCD	RUS
2.145580e+00	2.144070e+00	2.105711e+00	2.074027e+00	1.605238e+00	1.522055e+00
IND	SOM	AGO	GHA	JPN	DEU
1.521142e+00	1.363663e+00	1.348174e+00	1.276305e+00	1.250440e+00	1.071690e+00
ZMB	BEN	MWI	GIN	SLE	ZWE
1.045949e+00	1.002340e+00	9.801908e-01	9.321365e-01	9.024169e-01	8.271409e-01
ITA	SSD	BDI	CAF	MDG	UKR
8.022629e-01	7.737101e-01	7.623462e-01	7.281017e-01	6.927550e-01	6.746617e-01
GBR	FRA	POL	ESP	TGO	SEN
5.600329e-01	5.487953e-01	4.976482e-01	4.402356e-01	4.386891e-01	4.110469e-01
LSO	TUR	LBR	CAN	ROU	AFG
3.398167e-01	3.264306e-01	3.244937e-01	2.944403e-01	2.937560e-01	2.874319e-01
RWA	YEM	KOR	IRN	AUS	COG
2.558301e-01	2.333072e-01	2.290476e-01	2.185308e-01	1.998801e-01	1.806127e-01
VNM	ERI	NLD	HUN	BGR	SRB
1.769272e-01	1.739556e-01	1.706016e-01	1.669552e-01	1.593717e-01	1.523494e-01
BLR	GRC	PRK	EGY	CZE	BWA
1.500816e-01	1.498720e-01	1.386534e-01	1.318928e-01	1.302167e-01	1.262932e-01
BRA	GNQ	SWE	TWN	AUT	HTI
1.205327e-01	1.052378e-01	1.049020e-01	1.026277e-01	1.024692e-01	9.880697e-02
MRT	PNG	ARG	SWZ	SDN	BEL
9.306157e-02	9.252984e-02	9.198700e-02	9.118239e-02	8.937911e-02	8.931218e-02
NAM	MAR	GNB	PRT	KAZ	CHE
8.818762e-02	8.496812e-02	8.120315e-02	8.049203e-02	7.980266e-02	7.953637e-02
CUB	FIN	HRV	GMB	SVK	DZA
7.788342e-02	7.745852e-02	7.002104e-02	6.269620e-02	6.044403e-02	5.944796e-02
CHL	GEO	DNK	COL	UZB	TUN
5.528741e-02	5.299551e-02	5.258174e-02	5.105293e-02	4.992190e-02	4.854097e-02
LTU	LKA	BIH	AZE	NZL	NOR
4.727728e-02	4.659072e-02	4.602689e-02	4.174454e-02	4.124504e-02	3.918434e-02
IRQ	DJI	ISR	MEX	LVA	IRL
3.836830e-02	3.763060e-02	3.679920e-02	3.548623e-02	3.418809e-02	3.395906e-02
MDA	GAB	MKD	LBN	ALB	VEN

3.391938e-02	3.279853e-02	3.130896e-02	2.943907e-02	2.800547e-02	2.610080e-02
ARM	SVN	THA	URY	EST	SAU
2.553221e-02	2.512450e-02	2.433797e-02	2.229884e-02	2.168277e-02	1.923721e-02
GTM	SYR	MYS	PRI	KHM	ARE
1.721468e-02	1.486119e-02	1.478922e-02	1.427864e-02	1.304220e-02	1.212781e-02
PHL	CRI	SGP	LBY	MNG	KGZ
1.176433e-02	1.159761e-02	1.137921e-02	1.080026e-02	1.077230e-02	9.770222e-03
MNE	TKM	COM	CYP	LAO	JOR
9.692841e-03	9.054842e-03	8.433604e-03	8.285450e-03	7.424738e-03	6.006270e-03
JAM	IDN	LUX	NPL	MLT	KWT
5.041502e-03	4.391072e-03	4.368215e-03	4.356792e-03	3.865886e-03	3.864648e-03
PSE	MUS	TTO	ECU	PRY	TLS
3.596396e-03	3.232662e-03	2.759043e-03	2.752724e-03	2.624600e-03	2.583735e-03
BOL	ISL	NIC	BHR	OMN	HND
2.481448e-03	2.445309e-03	1.898439e-03	1.540244e-03	1.506583e-03	1.382452e-03
BRB	DOM	TJK	PAN	SLV	VIR
1.379973e-03	1.114681e-03	1.051818e-03	1.048171e-03	1.044695e-03	9.565579e-04
FJI	QAT	BRN	MCO	AND	BMU
9.514172e-04	8.134107e-04	7.705617e-04	7.029966e-04	7.009521e-04	5.812986e-04
GUM	LCA	SMR	GRL	DMA	GRD
5.142038e-04	4.890383e-04	3.944932e-04	3.364986e-04	2.964065e-04	2.806769e-04
SUR	WSM	MDV	ATG	VCT	MNP
2.567409e-04	2.515622e-04	2.201939e-04	2.108838e-04	1.809470e-04	1.689041e-04
BGD	SYC	BHS	ASM	SLB	MMR
1.684047e-04	1.499977e-04	1.402641e-04	1.215069e-04	1.189319e-04	1.129359e-04
KIR	TON	BLZ	COK	STP	PLW
1.070237e-04	7.399901e-05	6.159382e-05	6.016454e-05	4.760063e-05	3.378867e-05
PER	CPV	BTN	TUV	MHL	VUT
3.361327e-05	3.206319e-05	2.746204e-05	2.657485e-05	2.318264e-05	1.325692e-05
NIU	TKL	FSM	GUY	NRU	KNA
1.026228e-05	1.007530e-05	2.968293e-06	1.328026e-06	6.461912e-07	4.598659e-07

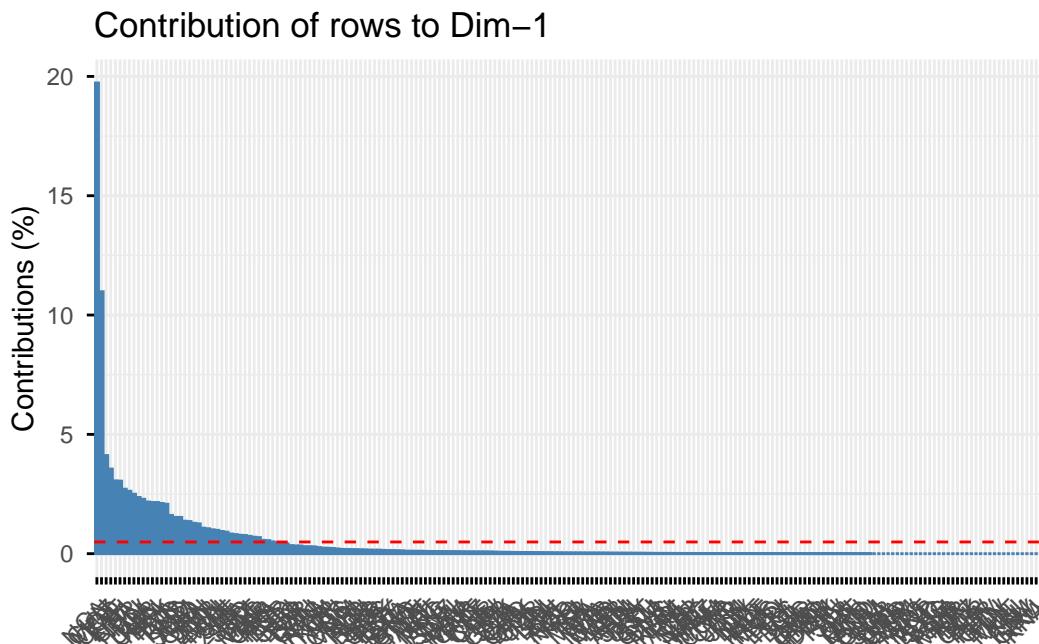
```
sort(pres.afc$row$contrib[,2], T)
```

ZAF	MOZ	IND	AFG	KEN	YEM
3.380379e+01	1.089643e+01	9.817344e+00	7.616354e+00	4.701756e+00	3.772577e+00
PAK	LSO	ZMB	ZWE	SYR	BWA
3.740590e+00	2.784479e+00	2.252237e+00	1.960896e+00	1.201585e+00	1.191412e+00
NER	COD	SWZ	SOM	CMR	THA
1.089745e+00	7.631764e-01	7.463981e-01	7.050948e-01	6.524266e-01	6.178494e-01
MLI	NGA	MWI	BGD	NAM	TCD
5.995435e-01	5.780372e-01	5.730353e-01	5.722458e-01	5.368862e-01	5.125519e-01

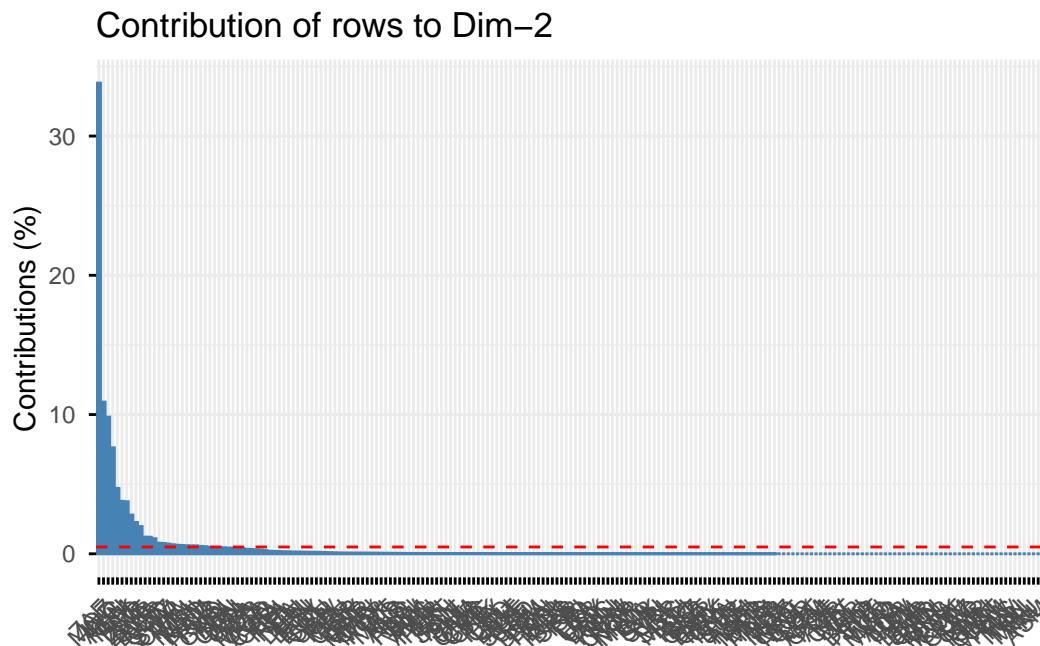
RUS	GNQ	IDN	BFA	CHN	JPN
4.645845e-01	4.589166e-01	4.541263e-01	4.404130e-01	4.175677e-01	4.070878e-01
USA	BRA	TZA	MDG	UGA	AGO
4.041022e-01	3.791721e-01	3.254830e-01	3.198426e-01	2.861206e-01	2.684575e-01
COG	GHA	BDI	FRA	NPL	ITA
2.334712e-01	1.877122e-01	1.753963e-01	1.712221e-01	1.488765e-01	1.487567e-01
DEU	HTI	BEN	ETH	EGY	COL
1.289423e-01	1.286297e-01	1.263394e-01	1.146381e-01	1.131120e-01	1.129409e-01
SEN	UKR	CIV	POL	VEN	GBR
1.068105e-01	1.008010e-01	8.718282e-02	7.470358e-02	6.328228e-02	6.092560e-02
ESP	LBY	GAB	MMR	CAN	MEX
5.870263e-02	5.684699e-02	5.680507e-02	5.502210e-02	5.410704e-02	5.032048e-02
KOR	DJI	MRT	IRQ	AUS	NLD
4.904470e-02	4.663925e-02	4.385548e-02	4.112529e-02	3.634264e-02	3.448693e-02
PNG	GIN	SLV	VNM	ARG	TWN
3.132475e-02	3.115526e-02	3.076661e-02	2.995529e-02	2.901653e-02	2.281793e-02
PER	ERI	PRT	SDN	PAN	SLE
2.253401e-02	2.187421e-02	2.084460e-02	2.021068e-02	1.972072e-02	1.816747e-02
PHL	JAM	GMB	CUB	GRC	CHE
1.808511e-02	1.787402e-02	1.732716e-02	1.631812e-02	1.558014e-02	1.450955e-02
TJK	PRY	CHL	LAO	ECU	AUT
1.447046e-02	1.411759e-02	1.403946e-02	1.400368e-02	1.358298e-02	1.351448e-02
SWE	CZE	SSD	BEL	DOM	DZA
1.315300e-02	1.291130e-02	1.257719e-02	1.142510e-02	1.132050e-02	1.067409e-02
HUN	PRI	BLR	KHM	BHS	SRB
1.061724e-02	1.029819e-02	9.752588e-03	9.500895e-03	9.236902e-03	9.175424e-03
ISR	FIN	TTO	LKA	UZB	URY
8.713699e-03	8.652433e-03	8.118078e-03	7.684947e-03	7.227331e-03	7.206456e-03
DNK	NIC	ROU	IRN	COM	HRV
7.008283e-03	6.834110e-03	6.752645e-03	6.730465e-03	6.604777e-03	6.337705e-03
NOR	MAR	NZL	LVA	TUR	SVK
5.805441e-03	5.514215e-03	5.398731e-03	5.019548e-03	4.764243e-03	4.711707e-03
SVN	CRI	IRL	SGP	MYS	LTU
4.568470e-03	4.367124e-03	4.360892e-03	4.321286e-03	4.030292e-03	3.760756e-03
BIH	TGO	BLZ	GNB	EST	BGR
3.713909e-03	3.705276e-03	3.561045e-03	3.426878e-03	3.368532e-03	3.342762e-03
GUY	PRK	CAF	KNA	BTN	SUR
3.054865e-03	2.857844e-03	2.681053e-03	2.268013e-03	2.033365e-03	1.675969e-03
ARE	FSM	LBN	MKD	BRB	MUS
1.571773e-03	1.547415e-03	1.450304e-03	1.334426e-03	1.295328e-03	1.293708e-03
TKM	ALB	SLB	MDA	KGZ	GEO
1.179008e-03	1.171106e-03	9.984614e-04	9.517872e-04	8.597197e-04	8.176726e-04
MNE	BOL	CYP	LUX	VCT	ARM

8.055884e-04	7.570388e-04	7.456412e-04	7.292559e-04	7.183579e-04	6.911436e-04
GTM	PSE	AZE	KIR	CPV	MLT
6.845214e-04	6.657086e-04	6.450861e-04	6.128108e-04	5.581204e-04	5.498042e-04
ISL	VIR	BMU	HND	STP	VUT
4.905277e-04	4.605647e-04	3.857341e-04	3.804279e-04	3.376216e-04	3.217539e-04
TUN	MCO	AND	ATG	LCA	JOR
2.890280e-04	2.521852e-04	2.494163e-04	2.428497e-04	2.176977e-04	2.116852e-04
MDV	FJI	DMA	BHR	SMR	GRD
1.961164e-04	1.560342e-04	1.497239e-04	1.489058e-04	1.370959e-04	1.249801e-04
BRN	GRL	MNG	RWA	COK	KWT
1.180379e-04	9.220963e-05	8.537299e-05	4.697491e-05	4.374485e-05	4.109254e-05
GUM	KAZ	SYC	LBK	MNP	SAU
3.800437e-05	2.991143e-05	2.144863e-05	2.122536e-05	1.570164e-05	1.394703e-05
OMN	QAT	WSM	PLW	TLS	TUV
1.234579e-05	1.201471e-05	1.129047e-05	1.051295e-05	4.680961e-06	3.554718e-06
NRU	TON	MHL	NIU	TKL	ASM
1.723373e-06	1.210184e-06	4.838918e-07	1.045754e-07	8.753926e-08	4.719367e-10

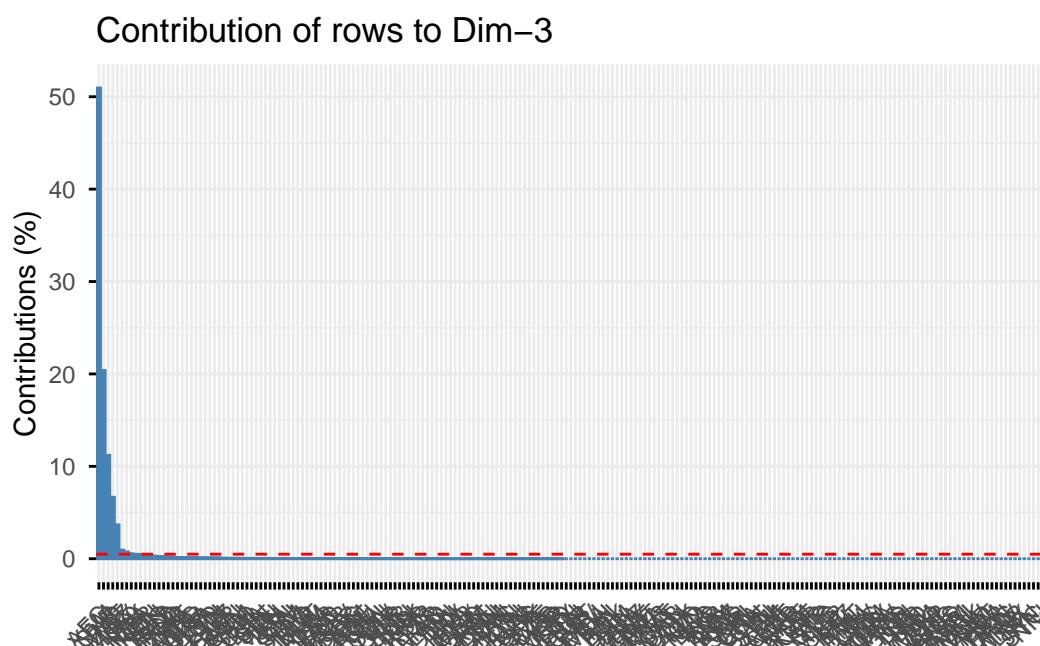
```
# Avec factoextra : plus facile à interpréter
fviz_contrib(pres.afc, choice = "row", axes=1)
```



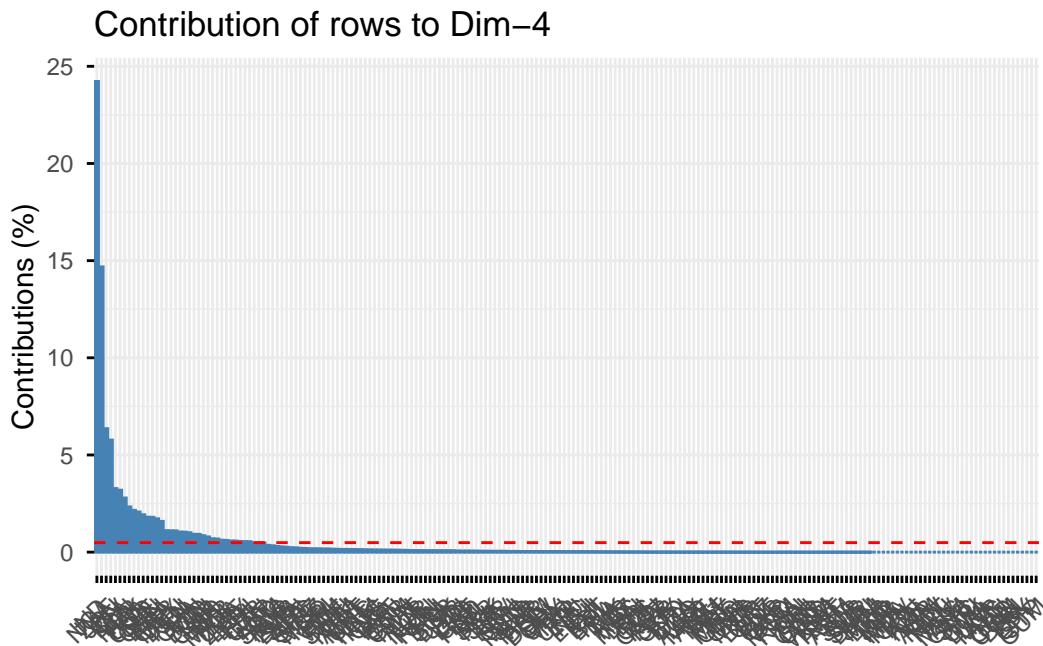
```
fviz_contrib(pres.afc, choice = "row", axes=2)
```



```
fviz_contrib(pres.afc, choice = "row", axes=3)
```



```
fviz_contrib(pres.afc, choice = "row", axes=4)
```



```
#Diagramme illisible à cause du nombre de pays(204)
#Triage par ordre décroissant des contributions, puis sélection des 10 premiers

# Axe 1 : NAG
contrib_dim1 <- pres.afc$row$contrib[, 1]
contrib_dim1_sorted <- sort(contrib_dim1, decreasing = TRUE)
head(contrib_dim1_sorted, 10)
```

NGA	CHN	MOZ	COD	ZAF	ETH	USA	NER
19.726005	10.976896	4.112398	3.546350	3.051948	3.040174	2.704453	2.617140
MLI	CIV						
2.494568	2.356005						

```
# Axe 2 : ZAF
contrib_dim1 <- pres.afc$row$contrib[, 2]
contrib_dim1_sorted <- sort(contrib_dim1, decreasing = TRUE)
head(contrib_dim1_sorted, 10)
```

ZAF	MOZ	IND	AFG	KEN	YEM	PAK	LSO
-----	-----	-----	-----	-----	-----	-----	-----

```

33.803785 10.896431  9.817344  7.616354  4.701756  3.772577  3.740590  2.784479
      ZMB      ZWE
2.252237  1.960896

```

```

# Axe 3 : AFG
contrib_dim1 <- pres.afc$row$contrib[, 3]
contrib_dim1_sorted <- sort(contrib_dim1, decreasing = TRUE)
head(contrib_dim1_sorted, 10)

```

AFG	YEM	SYR	IND	ZAF	MOZ	LBY
50.9440095	20.3723158	11.1949782	6.6568623	3.6687024	0.9360243	0.7432299
IRQ	PAK	NGA				
0.5518226	0.4741118	0.4737038				

```

# Axe 4 : IND
contrib_dim1 <- pres.afc$row$contrib[, 4]
contrib_dim1_sorted <- sort(contrib_dim1, decreasing = TRUE)
head(contrib_dim1_sorted, 10)

```

IND	NGA	ZAF	JPN	CIV	BFA	IDN	NER
24.222108	14.681495	6.356659	5.769857	3.273574	3.190316	2.790212	2.329785
PAK	USA						
2.153765	2.069287						

```

# Contributions des causes

sort(pres.afc$col$contrib[,1], T)

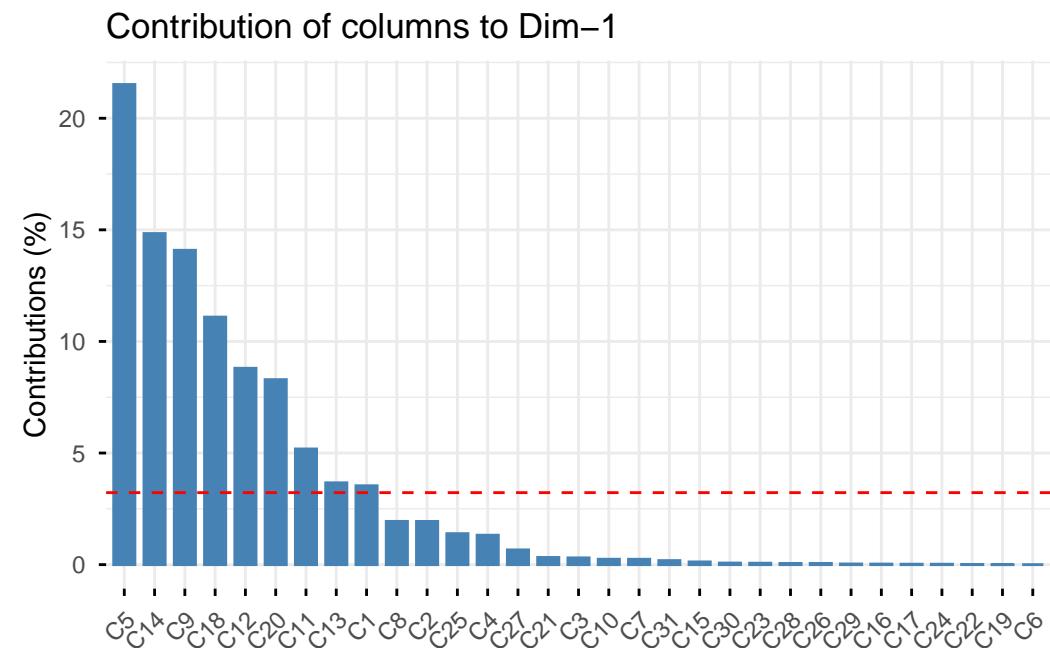
```

C5	C14	C9	C18	C12	C20
2.151292e+01	1.483461e+01	1.408489e+01	1.109202e+01	8.798851e+00	8.289149e+00
C11	C13	C1	C8	C2	C25
5.182979e+00	3.666514e+00	3.534111e+00	1.937509e+00	1.937167e+00	1.388757e+00
C4	C27	C21	C3	C10	C7
1.318809e+00	6.609184e-01	3.219510e-01	3.030668e-01	2.427161e-01	2.403167e-01
C31	C15	C30	C23	C28	C26
1.815808e-01	1.214295e-01	7.196793e-02	6.427002e-02	5.390678e-02	5.332013e-02
C29	C16	C17	C24	C22	C19
2.929706e-02	2.589483e-02	1.999528e-02	1.957385e-02	9.707223e-03	1.675303e-03
C6					
1.255674e-04					

```
sort(pres.afc$col$contrib[,2], T)
```

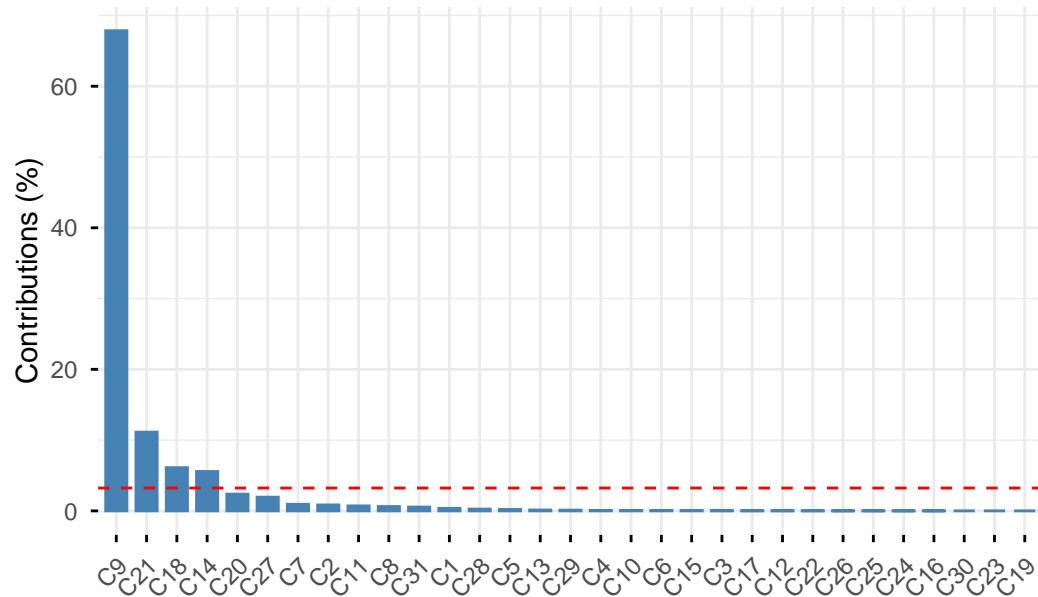
C9	C21	C18	C14	C20	C27
67.841746797	11.121450518	6.109623143	5.565946220	2.363979559	1.942131597
C7	C2	C11	C8	C31	C1
0.929817614	0.840062949	0.705169996	0.618826698	0.537842779	0.359557908
C28	C5	C13	C29	C4	C10
0.253150178	0.200520760	0.125259582	0.101660003	0.066451070	0.062975682
C6	C15	C3	C17	C12	C22
0.057168066	0.048182609	0.038594391	0.031202162	0.026560777	0.021345404
C26	C25	C24	C16	C30	C23
0.010636554	0.010558883	0.003315490	0.003114442	0.001327948	0.001158705
C19					
0.000661517					

```
# Avec factoextra : plus facile à interpréter  
fviz_contrib(pres.afc, choice = "col", axes=1)
```



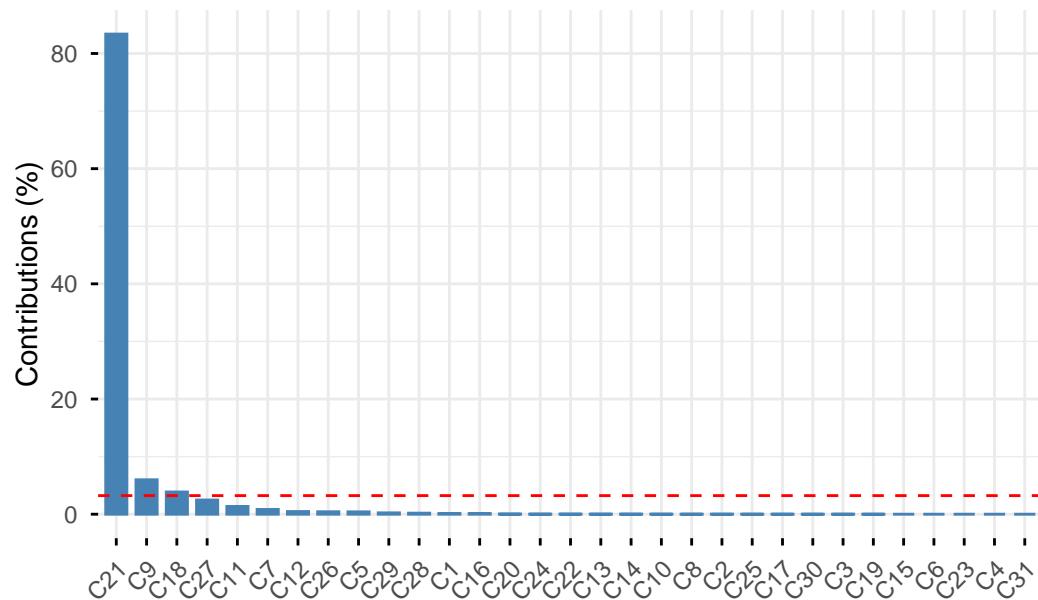
```
fviz_contrib(pres.afc, choice = "col", axes=2)
```

Contribution of columns to Dim-2

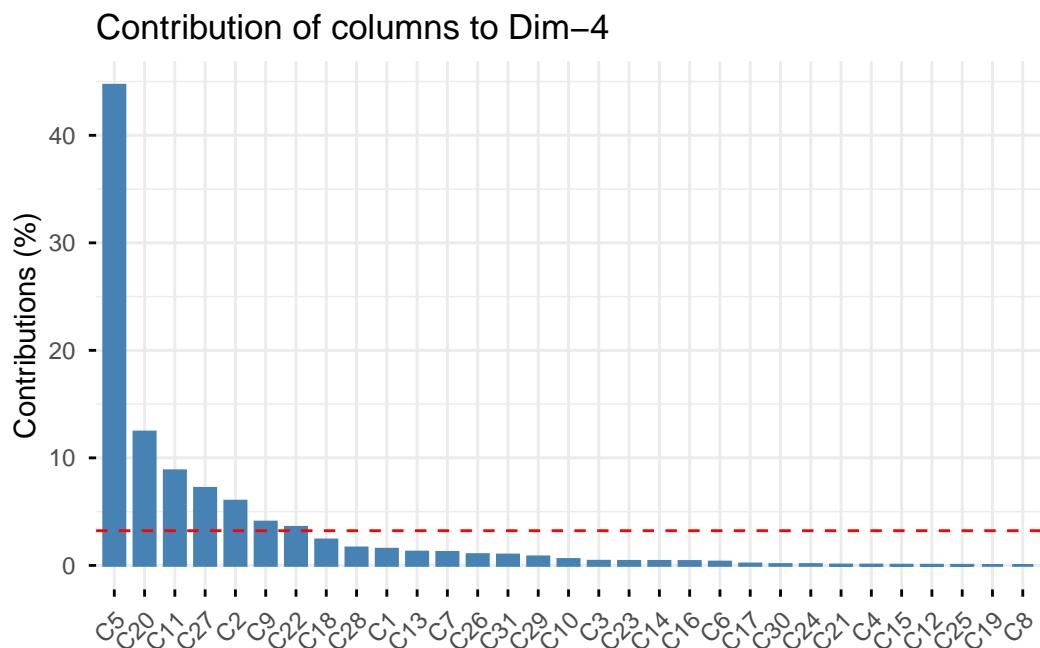


```
fviz_contrib(pres.afc, choice = "col", axes=3)
```

Contribution of columns to Dim-3



```
fviz_contrib(pres.afc, choice = "col", axes=4)
```

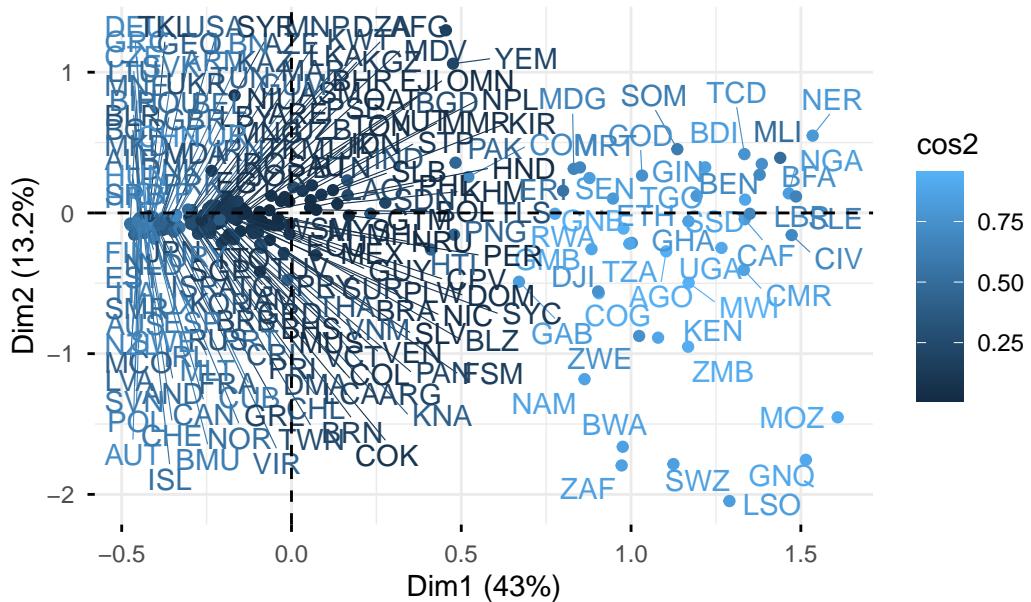


```
# Qualité de représentation
```

```
# Plan des modalités lignes (row) ou colonnes (col) selon les Qltés de représentation
```

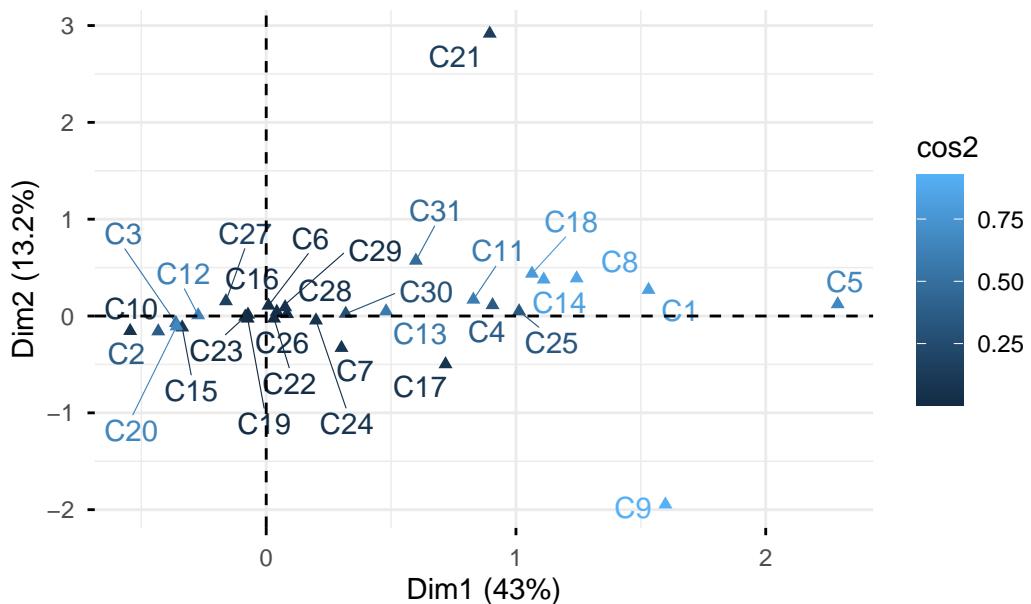
```
fviz_ca_row(pres.afc, col.row ="cos2", repel = T)
```

Row points – CA

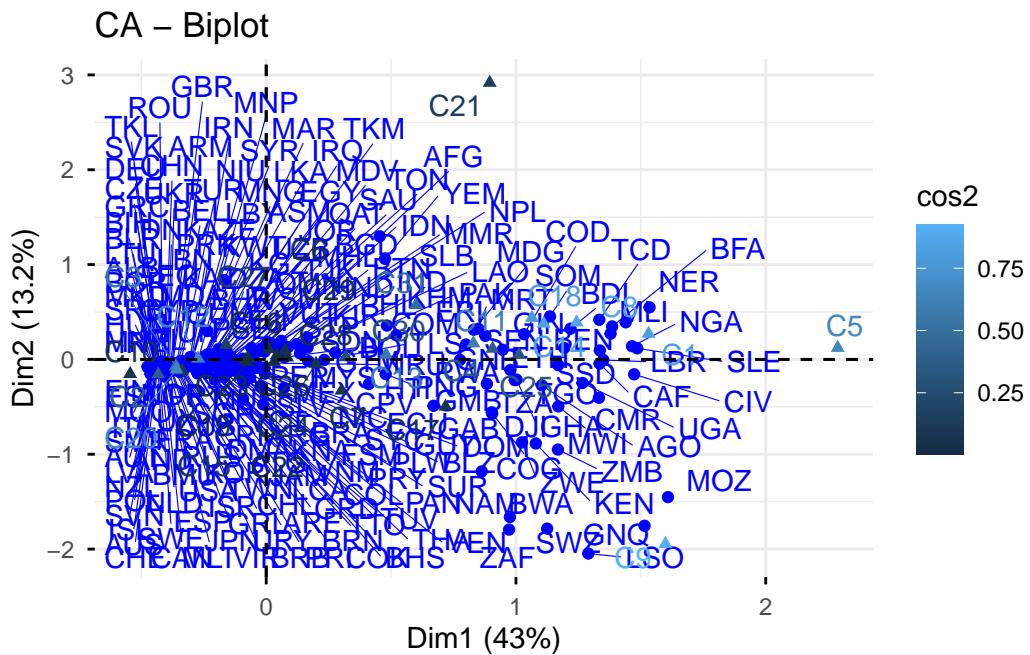


```
fviz_ca_col(pres.afc, col.col="cos2", repel = T)
```

Column points – CA

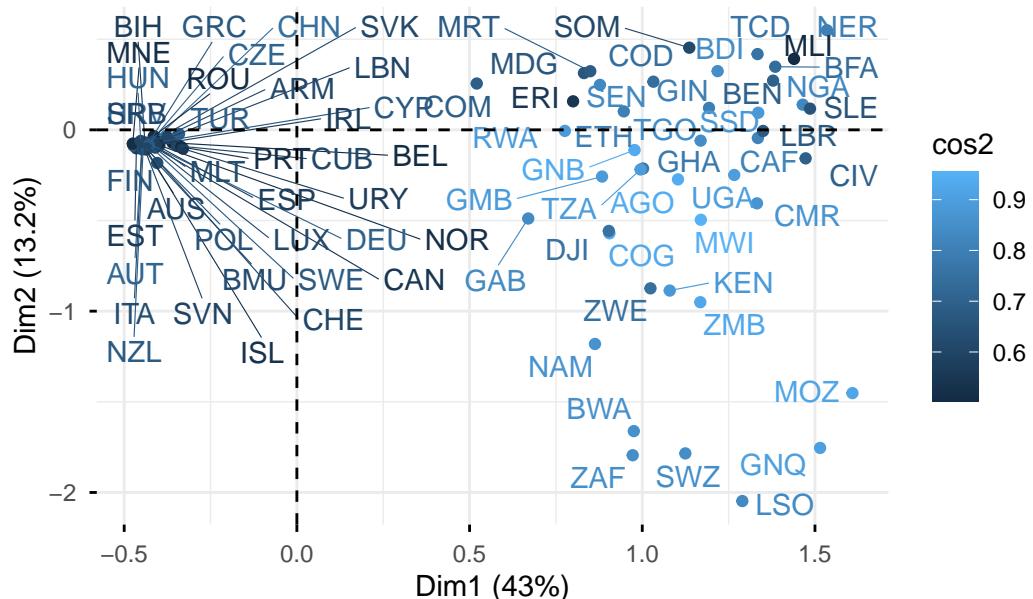


```
fviz_ca_biplot(pres.afc, col.col="cos2", repel = T)
```



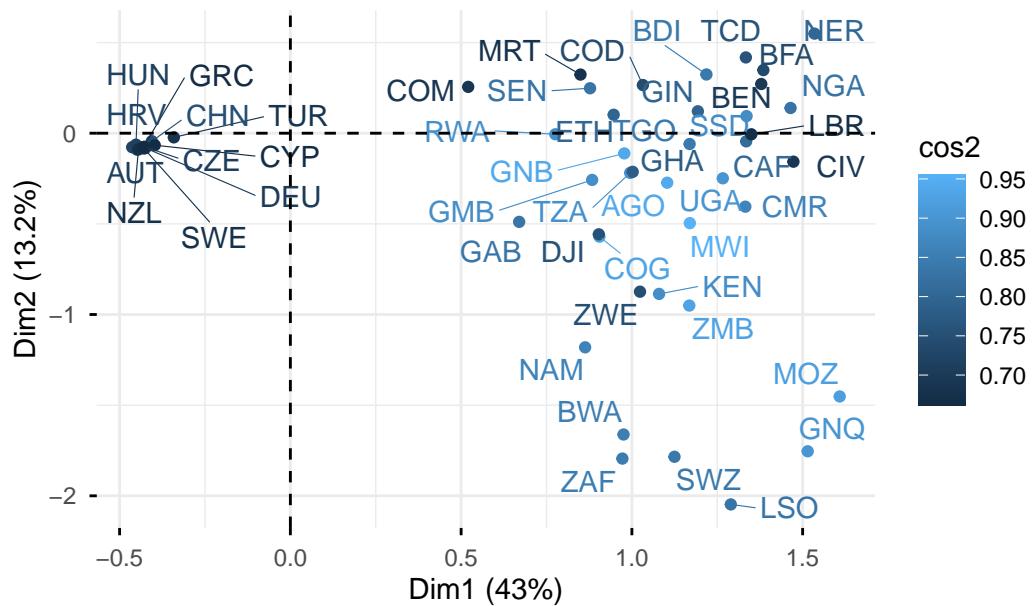
```
# En filtrant sur un cos2 > 0.7
fviz_ca_row(pres.afc, col.row = "cos2", select.row = list(cos2 = 0.5), repel = T)
```

Row points – CA



```
# En filtrant sur les 20 meilleurs cos2
fviz_ca_row(pres.afc, col.row = "cos2", select.row = list(cos2 = 50), repel = T)
```

Row points – CA



Après sélection des axes significatifs, l'AFC permet de représenter les modalités des lignes (pays) et des colonnes (causes) dans l'espace factoriel. Les diagrammes factoriels des lignes et des colonnes mettent en évidence les similitudes et les différences structurelles : les pays proches sur le plan factoriel présentent des profils de mortalité similaires, tandis que les causes de décès rapprochées indiquent une co-occurrence relative dans différents pays.

Les biplots combinant lignes et colonnes sur les premiers plans factoriels fournissent une vue d'ensemble des relations entre pays et causes. Le premier plan factoriel (axes 1 et 2) est généralement le plus informatif, mais d'autres combinaisons d'axes peuvent également révéler des dimensions secondaires de variation.

Pour approfondir l'interprétation, les contributions des lignes et des colonnes aux axes factoriels sont examinées. Les modalités les plus contributives sont identifiées, ce qui permet de se concentrer sur les pays et causes qui expliquent le mieux la variance sur chaque axe. Étant donné le grand nombre de pays (204), une sélection des dix premières contributions pour chaque axe facilite la lecture et l'interprétation des résultats.

La qualité de représentation de chaque modalité est évaluée à l'aide du cos2, indiquant la proportion de la variance de la modalité expliquée par les axes retenus. Les modalités avec un cos2 élevé sont mieux représentées sur le plan factoriel et constituent des points de référence fiables pour l'interprétation. Des diagrammes filtrés sur le cos2 permettent de visualiser clairement les pays et causes les mieux représentés, tout en réduisant l'encombrement visuel des graphiques.

Cette analyse graphique et quantitative des contributions et de la qualité de représentation fournit une base solide pour tirer des conclusions sur les profils de mortalité et les relations entre pays et causes dans l'ensemble du jeu de données.

4.5 Distances au centre de gravité

```
# Calcul et interprétation des distances au CG pour les pays...
```

```
# Les inerties sont données par
```

```
pres.afc$row$inertia
```

```
[1] 4.411282e-02 1.729958e-04 1.015603e-03 3.313801e-06 4.619748e-06  
[6] 4.384698e-03 4.366258e-06 1.392154e-03 1.216202e-04 1.017138e-03  
[11] 4.318507e-04 4.083224e-04 1.784607e-04 6.879397e-05 1.891582e-03  
[16] 2.389576e-05 1.459417e-03 5.295266e-04 2.397104e-05 4.305597e-03  
[21] 3.217306e-06 1.346707e-05 3.739734e-04 2.383071e-04 1.666402e-03
```

```

[26] 8.400529e-03 1.205694e-05 1.070611e-03 8.917060e-03 2.795512e-03
[31] 8.008396e-04 7.894608e-03 1.653986e-03 9.336894e-06 2.591835e-03
[36] 6.686388e-03 4.531019e-04 4.281881e-02 2.907771e-03 4.370227e-05
[41] 7.832523e-04 2.452999e-06 1.081554e-04 9.883467e-03 2.858402e-04
[46] 3.945447e-04 3.671316e-05 5.468947e-04 1.470716e-02 3.479837e-04
[51] 1.981993e-04 3.772179e-06 2.330812e-04 5.390659e-04 6.153453e-03
[56] 8.293952e-04 7.891883e-04 9.533350e-04 1.163172e-04 1.098203e-03
[61] 1.106989e-02 2.281077e-04 3.490135e-04 4.309101e-03 1.734369e-04
[66] 2.214843e-04 3.478106e-04 4.569699e-03 4.934248e-03 6.728213e-04
[71] 5.483797e-06 5.367729e-06 3.170930e-06 1.887557e-03 3.414781e-03
[76] 2.529867e-04 4.420303e-05 8.893947e-04 6.335174e-04 6.842230e-04
[81] 1.407466e-05 3.777586e-02 6.755663e-03 1.612244e-03 1.260681e-03
[86] 1.783646e-04 3.027560e-04 3.889898e-03 1.918408e-04 1.537621e-02
[91] 1.466543e-04 6.953118e-04 1.173016e-02 1.058260e-05 4.459901e-05
[96] 1.887551e-04 1.458115e-04 2.162214e-04 1.435247e-04 4.137743e-03
[101] 1.391843e-03 6.759281e-04 2.851562e-04 2.165479e-05 3.450275e-03
[106] 3.488171e-03 8.259688e-04 4.588319e-06 1.535156e-02 1.872585e-05
[111] 1.907478e-06 4.512843e-04 2.448052e-04 1.049661e-02 8.563938e-06
[116] 3.569079e-04 5.475712e-06 2.442279e-04 5.516039e-05 9.761609e-04
[121] 2.344382e-02 1.044673e-03 8.469756e-04 4.854178e-07 1.488429e-03
[126] 1.094497e-03 1.833845e-04 2.952236e-04 1.060877e-02 6.931226e-02
[131] 3.298076e-07 8.261507e-04 1.864931e-04 1.963127e-06 2.273998e-04
[136] 2.764617e-04 2.041712e-02 1.792875e-06 8.291272e-05 9.740417e-05
[141] 6.524870e-04 1.749709e-04 9.223011e-04 2.585052e-03 2.322072e-03
[146] 4.944742e-04 2.756036e-04 1.108092e-04 1.695532e-03 1.379559e-02
[151] 8.305420e-04 4.942603e-06 8.302694e-06 7.662769e-06 6.633234e-06
[156] 2.556280e-06 4.163684e-06 2.923505e-03 1.542408e-03 7.436071e-04
[161] 3.525928e-06 4.001733e-03 2.462163e-04 2.921503e-04 1.292052e-04
[166] 3.168767e-05 7.463821e-03 4.568773e-02 2.165116e-03 2.541933e-03
[171] 2.272040e-03 8.122284e-04 1.293601e-03 1.683705e-05 4.642072e-04
[176] 4.020297e-04 9.343366e-03 1.178375e-03 2.043935e-04 7.038607e-03
[181] 2.052524e-03 2.458094e-05 1.502578e-03 1.519633e-07 5.678082e-06
[186] 1.758224e-04 3.221675e-04 1.375835e-03 2.373201e-04 6.766537e-07
[191] 7.601865e-03 6.749205e-03 5.863067e-04 3.592797e-03 1.911599e-02
[196] 6.878696e-06 1.243676e-04 1.271209e-03 6.308420e-06 1.731183e-03
[201] 1.452069e-03 1.874312e-02 5.414014e-03 5.516093e-03

```

```

# Sachant que les masses des individus sont données par
pres.afc$call$marge.row

```

AFG	ALB	DZA	ASM	AND	AGO
4.003483e-03	4.090104e-04	3.537098e-03	6.622161e-06	1.079780e-05	3.188570e-03

ATG	ARG	ARM	AUS	AUT	AZE
1.063225e-05	6.200035e-03	5.143947e-04	2.959646e-03	1.465135e-03	1.396595e-03
BHS	BHR	BGD	BRB	BLR	BEL
4.712771e-05	7.472005e-05	1.519644e-02	5.248062e-05	2.221128e-03	1.985581e-03
BLZ	BEN	BMU	BTN	BOL	BIH
3.500548e-05	1.518149e-03	1.024595e-05	7.356117e-05	1.346911e-03	6.844739e-04
BWA	BRA	BRN	BGR	BFA	BDI
3.821355e-04	2.462690e-02	3.250377e-05	2.295958e-03	3.218462e-03	1.479152e-03
KHM	CMR	CAN	CPV	CAF	TCD
2.056733e-03	3.518409e-03	5.039225e-03	6.305769e-05	1.176850e-03	2.598315e-03
CHL	CHN	COL	COM	COG	COK
2.045494e-03	1.920898e-01	4.344174e-03	8.954633e-05	6.352308e-04	3.035157e-06
CRI	CIV	HRV	CUB	CYP	CZE
4.359589e-04	3.126653e-03	9.396846e-04	1.864377e-03	1.512612e-04	2.053992e-03
COD	DNK	DJI	DMA	DOM	ECU
9.584897e-03	9.789577e-04	1.328479e-04	1.285803e-05	1.278390e-03	1.660231e-03
EGY	SLV	GNQ	ERI	EST	SWZ
1.113248e-02	7.348207e-04	1.320569e-04	7.831073e-04	2.891677e-04	2.075496e-04
ETH	FJI	FIN	FRA	GAB	GMB
9.769582e-03	1.316706e-04	9.968927e-04	1.044677e-02	2.104376e-04	2.312238e-04
GEO	DEU	GHA	GRC	GRL	GRD
9.164887e-04	1.713894e-02	3.657898e-03	2.328370e-03	8.369676e-06	1.425604e-05
GUM	GTM	GIN	GNB	GUY	HTI
2.038154e-05	1.731070e-03	1.885182e-03	2.446153e-04	1.200451e-04	1.685929e-03
HND	HUN	ISL	IND	IDN	IRN
9.489189e-04	2.352044e-03	3.699213e-05	1.621095e-01	3.151308e-02	6.917951e-03
IRQ	IRL	ISR	ITA	JAM	JPN
3.040933e-03	5.708119e-04	8.242199e-04	1.148892e-02	3.437821e-04	2.519683e-02
JOR	KAZ	KEN	KIR	KWT	KGZ
5.542013e-04	2.580766e-03	5.300985e-03	2.067586e-05	1.749722e-04	6.469851e-04
LAO	LVA	LBN	LSO	LBR	LYB
7.813782e-04	4.956319e-04	6.061301e-04	5.883054e-04	5.129048e-04	5.617432e-04
LTU	LUX	MDG	MWI	MYS	MDV
7.000728e-04	7.321167e-05	2.887299e-03	2.063042e-03	3.085430e-03	2.527458e-05
MLI	MLT	MHL	MRT	MUS	MEX
3.467474e-03	6.603766e-05	7.505116e-06	3.713377e-04	1.947651e-04	1.356443e-02
FSM	MDA	MCO	MNG	MNE	MAR
1.688651e-05	7.814702e-04	9.436579e-06	4.648757e-04	1.236505e-04	4.077375e-03
MOZ	MMR	NAM	NRU	NPL	NLD
4.576833e-03	7.476585e-03	3.409125e-04	1.158878e-06	3.428495e-03	2.711536e-03
NZL	NIC	NER	NGA	NIU	PRK
6.006300e-04	5.368365e-04	3.199148e-03	2.647945e-02	3.311080e-07	4.303945e-03
MKD	MNP	NOR	OMN	PAK	PLW

4.400794e-04	6.327843e-06	7.112017e-04	2.163055e-04	2.597164e-02	3.715768e-06		
PSE	PAN	PNG	PRY	PER	PHL		
2.906025e-04	3.536234e-04	1.163918e-03	5.993607e-04	2.740121e-03	1.121636e-02		
POL	PRT	PRI	QAT	ROU	RUS		
7.375358e-03	2.069517e-03	5.820511e-04	7.598930e-05	4.928635e-03	3.269182e-02		
RWA	KNA	LCA	VCT	WSM	SMR		
1.223720e-03	8.884732e-06	2.477792e-05	1.804539e-05	2.439163e-05	5.463283e-06		
STP	SAU	SEN	SRB	SYC	SLE		
1.771428e-05	2.164398e-03	1.537059e-03	2.144660e-03	1.442159e-05	1.177347e-03		
SGP	SVK	SVN	SLB	SOM	ZAF		
4.124135e-04	9.988242e-04	3.719263e-04	1.071502e-04	3.041540e-03	9.296576e-03		
KOR	SSD	ESP	LKA	SDN	SUR		
5.776916e-03	1.248608e-03	7.578438e-03	2.420878e-03	3.370882e-03	7.622843e-05		
SWE	CHE	SYR	TWN	TJK	TZA		
1.643878e-03	1.211138e-03	1.524845e-03	3.359312e-03	8.621318e-04	6.031464e-03		
THA	TLS	TGO	TKL	TON	TTO		
8.918432e-03	1.374466e-04	9.243985e-04	1.655540e-07	1.179113e-05	2.077887e-04		
TUN	TUR	TKM	TUV	UGA	UKR		
1.210329e-03	8.073830e-03	6.341639e-04	1.913069e-06	4.096653e-03	1.293959e-02		
ARE	GBR	USA	VIR	URY	UZB		
4.993661e-04	1.092171e-02	5.214885e-02	2.292003e-05	5.908255e-04	3.828032e-03		
VUT	VEN	VNM	YEM	ZMB	ZWE		
3.960420e-05	3.335454e-03	1.139118e-02	2.970665e-03	2.207405e-03	2.272505e-03		

```
# En déduire les distances aux CG : inertia/m_i
```

```
pres.afc$row$inertia/pres.afc$call$marge.row
```

AFG	ALB	DZA	ASM	AND	AGO	ATG
11.0186124	0.4229618	0.2871288	0.5004108	0.4278415	1.3751298	0.4106618
ARG	ARM	AUS	AUT	AZE	BHS	BHR
0.2245397	0.2364335	0.3436688	0.2947515	0.2923699	3.7867457	0.9206896
BGD	BRB	BLR	BEL	BLZ	BEN	BMU
0.1244753	0.4553253	0.6570614	0.2666859	0.6847797	2.8360839	0.3140075
BTN	BOL	BIH	BWA	BRA	BRN	BGR
0.1830731	0.2776527	0.3481610	4.3607636	0.3411120	0.3709398	0.4663024
BFA	BDI	KHM	CMR	CAN	CPV	CAF
2.7705965	1.8899427	0.3893746	2.2438003	0.3282223	0.1480691	2.2023494
TCD	CHL	CHN	COL	COM	COG	COK
2.5733553	0.2215123	0.2229104	0.6693495	0.4880409	1.2330201	0.8081952
CRI	CIV	HRV	CUB	CYP	CZE	COD
0.2480862	3.1610372	0.3041874	0.2116228	0.2427137	0.2662594	1.5344101

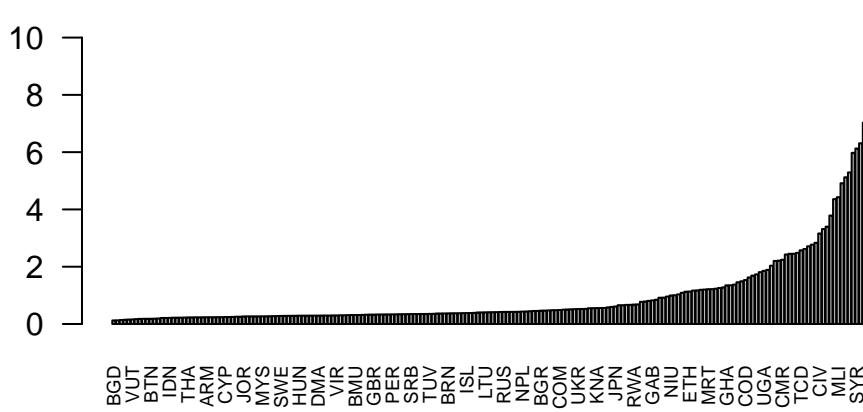
	DNK	DJI	DMA	DOM	ECU	EGY	SLV
0.3554634	1.4919263	0.2933715	0.1823240	0.3246934	0.5527479	1.1287042	
	GNQ	ERI	EST	SWZ	ETH	FJI	FIN
5.9761217	1.2173746	0.4022483	5.2912817	1.1330979	1.7324114	0.3501014	
	FRA	GAB	GMB	GEO	DEU	GHA	GRC
0.4124816	0.8241730	0.9578783	0.3795034	0.2666266	1.3489300	0.2889667	
	GRL	GRD	GUM	GTM	GIN	GNB	GUY
0.6551983	0.3765231	0.1555785	1.0903990	1.8113798	1.0342230	0.3682204	
	HTI	HND	HUN	ISL	IND	IDN	IRN
0.5275400	0.6676202	0.2909056	0.3804772	0.2330268	0.2143765	0.2330523	
	IRQ	IRL	ISR	ITA	JAM	JPN	JOR
0.4145706	0.3124754	0.3673243	0.3385784	0.5580301	0.6102439	0.2646229	
	KAZ	KEN	KIR	KWT	KGZ	LAO	LVA
0.2694207	2.2128262	0.5118338	0.2548920	0.2917457	0.1866082	0.4362540	
	LBN	LSO	LBR	LBY	LTU	LUX	MDG
0.2367886	7.0333242	2.7136471	1.2032689	0.4073237	0.2957833	1.1949838	
	MWI	MYS	MDV	MLI	MLT	MHL	MRT
1.6907897	0.2676997	0.1815389	4.4273039	0.2835632	0.2541571	1.2152936	
	MUS	MEX	FSM	MDA	MCO	MNG	MNE
1.2569252	0.7738334	0.5071467	0.4567134	0.5802645	0.5253616	0.4460994	
	MAR	MOZ	MMR	NAM	NRU	NPL	NLD
0.2394092	5.1222808	0.1397260	2.4844369	0.4188688	0.4341349	0.4036448	
	NZL	NIC	NER	NGA	NIU	PRK	MKD
0.3053203	0.5499320	3.3161250	2.6175873	0.9960723	0.1919520	0.4237715	
	MNP	NOR	OMN	PAK	PLW	PSE	PAN
0.3102363	0.3197403	1.2781076	0.7861316	0.4825045	0.2853132	0.2754461	
	PNG	PRY	PER	PHL	POL	PRT	PRI
0.5605952	0.2919292	0.3365913	0.2304716	0.3148420	0.2389322	0.4735040	
	QAT	ROU	RUS	RWA	KNA	LCA	VCT
1.4582212	0.3440166	0.4219891	0.6787026	0.5563030	0.3350844	0.4246386	
	WSM	SMR	STP	SAU	SEN	SRB	SYC
0.2719472	0.4679018	0.2350467	1.3507241	1.0034803	0.3467249	0.2444894	
	SLE	SGP	SVK	SVN	SLB	SOM	ZAF
3.3989419	0.5970133	0.2924942	0.3473947	0.2957312	2.4539609	4.9144691	
	KOR	SSD	ESP	LKA	SDN	SUR	SWE
0.3747876	2.0358129	0.2998033	0.3355098	0.3837573	0.2208763	0.2823854	
	CHE	SYR	TWN	TJK	TZA	THA	TLS
0.3319437	6.1274220	0.3507787	0.2370792	1.1669816	0.2301441	0.1788399	
	TGO	TKL	TON	TTO	TUN	TUR	TKM
1.6254659	0.9179077	0.4815556	0.8461595	0.2661818	0.1704068	0.3742251	
	TUV	UGA	UKR	ARE	GBR	USA	VIR
0.3537007	1.8556283	0.5215933	1.1741018	0.3289593	0.3665658	0.3001172	
	URY	UZB	VUT	VEN	VNM	YEM	ZMB

```

0.2104981 0.3320789 0.1592866 0.5190249 0.1274731 6.3094029 2.4526596
ZWE
2.4273186

```

```
barplot(sort(pres.afc$row$inertia/pres.afc$call$marge.row), las=2, cex.names=0.6)
```



```
# Quel pays a le profil le plus proche du profil moyen ?
which.min(pres.afc$row$inertia/pres.afc$call$marge.row)
```

BGD
15

```
# Quel pays a le profil le plus éloigné du profil moyen ?
which.max(pres.afc$row$inertia/pres.afc$call$marge.row)
```

AFG
1

```

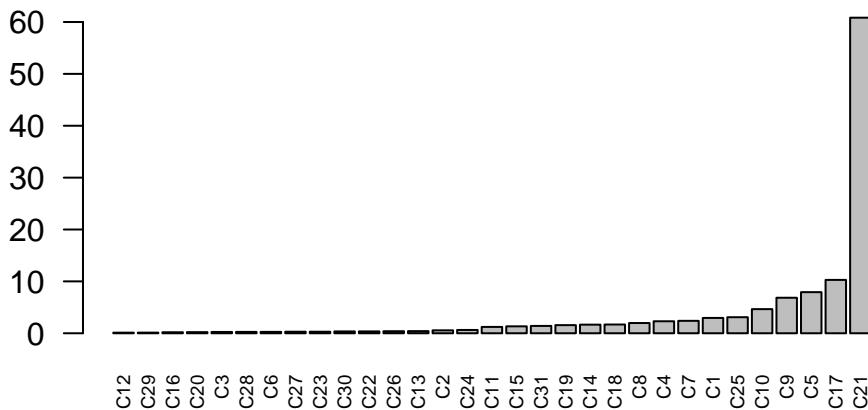
# Interprétation de ces distances
# La distance évalue le caractère +/- atypique d'un profil en regard du profil moyen

# Pour les colonnes
pres.afc$col$inertia/pres.afc$call$marge.col

```

	C1	C2	C3	C4	C5	C6	C7
2.9556066	0.5675751	0.2499869	2.3123303	7.9246353	0.2678024	2.3947903	
	C8	C9	C10	C11	C12	C13	C14
1.9728054	6.8465138	4.6497569	1.2254989	0.1189464	0.4133981	1.6587948	
	C15	C16	C17	C18	C19	C20	C21
1.3355893	0.1939155	10.2839831	1.6842943	1.5688329	0.2140124	60.8308279	
	C22	C23	C24	C25	C26	C27	C28
0.3592837	0.2987134	0.6392843	3.0937934	0.3951039	0.2959231	0.2603524	
	C29	C30	C31				
0.1222531	0.3540672	1.4140545					

```
barplot(sort(pres.afc$col$inertia/pres.afc$call$marge.col), las=2, cex.names=0.6)
```

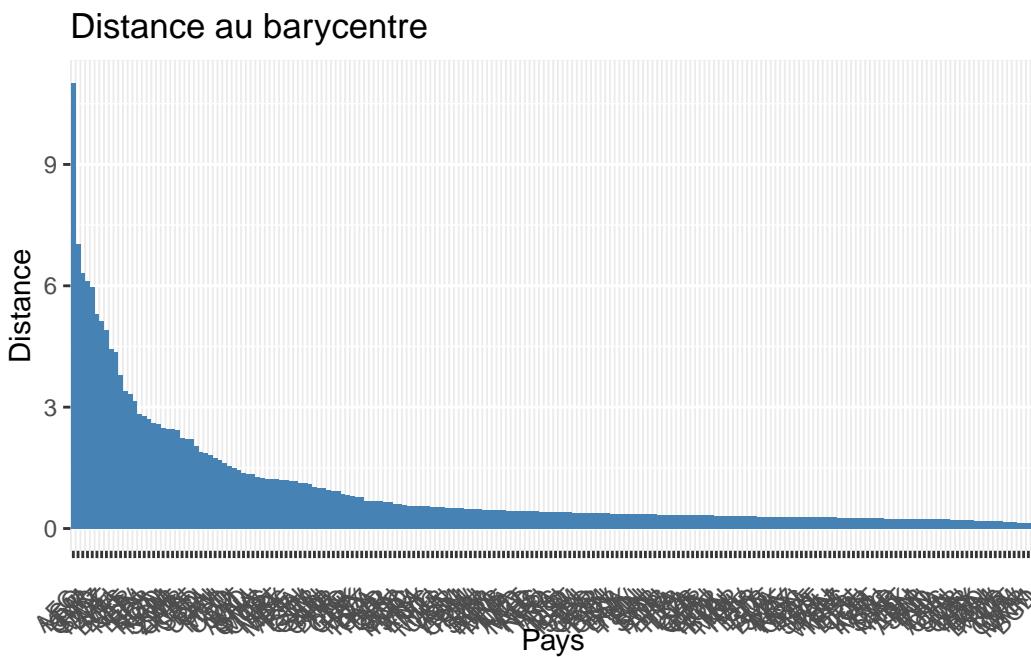


```
# Distances représentées avec ggplot
```

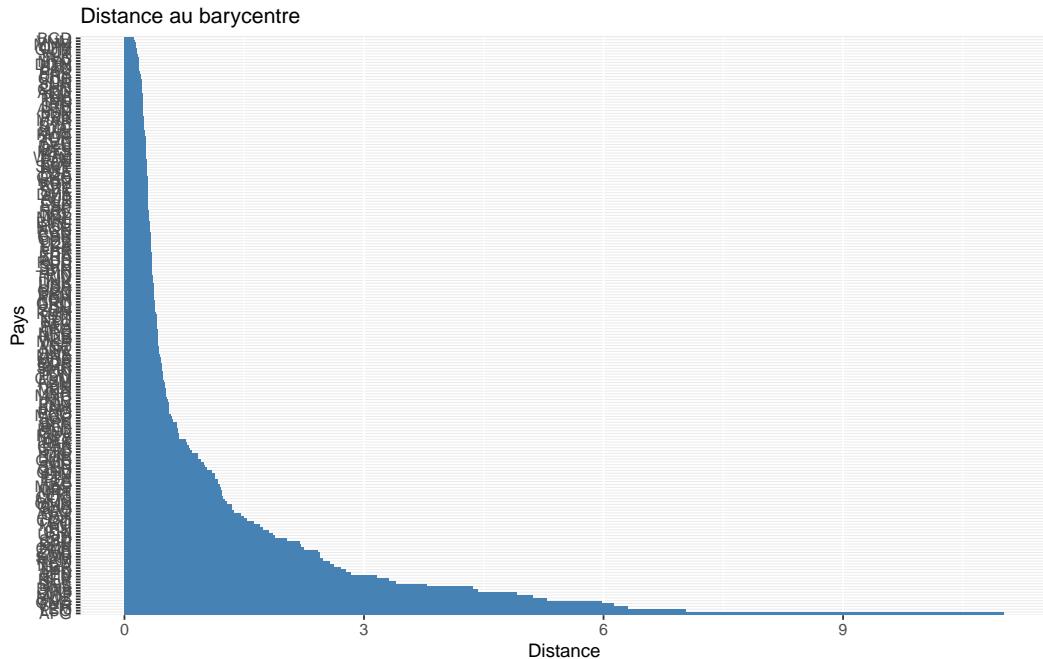
```
dafr <- data.frame(distance = pres.afc$row$inertia/pres.afc$call$marge.row)
summary(dafr)
```

```
distance
Min. : 0.1245
1st Qu.: 0.2915
Median : 0.4116
Mean : 0.9768
3rd Qu.: 1.0483
Max. : 11.0186
```

```
# Barres verticales
ggplot(dafr, aes(x=reorder(row.names(dafr), -distance), y=distance)) +
  geom_col(fill = "steelblue") +
  theme(axis.text.x = element_text(angle = 45, vjust = 0.5, hjust=1)) +
  labs(title="Distance au barycentre", x ="Pays", y = "Distance")
```



```
# Barres horizontales
ggplot(dafr, aes(y=reorder(row.names(dafr), -distance), x=distance)) +
  geom_col(fill = "steelblue") +
  theme_grey(base_size = 7) +
  labs(title="Distance au barycentre", y ="Pays", x = "Distance")
```



L'AFC permet également de calculer la distance de chaque pays et de chaque cause au centre de gravité (barycentre) de l'ensemble des données. Cette distance est obtenue en rapportant l'inertie d'une modalité à sa masse, ce qui fournit une mesure de l'écart par rapport au profil moyen. Les pays dont la distance est faible possèdent un profil proche de la moyenne, tandis que ceux ayant une distance élevée présentent des profils atypiques ou fortement différenciés.

La visualisation des distances au barycentre, par diagrammes en barres verticales ou horizontales, met en évidence les pays dont les profils sont les plus représentatifs et ceux qui s'écartent le plus du centre de gravité. Cette information est utile pour identifier les pays ou causes présentant des caractéristiques particulières et guide l'interprétation des plans factoriels précédemment étudiés.

5 Conclusion

Fatoumata

Résumer les principaux résultats :Combien d'axes retenus, quelles causes/pays se distinguent
Interprétation des distances et profils. Limites de l'analyse. Perspectives éventuelles

Yester

L'analyse des données de mortalité par pays et par cause a permis d'illustrer la richesse et la diversité des profils de décès dans le monde. L'exploration initiale par diagrammes en barres a montré des différences marquées entre pays, notamment entre pays à revenu élevé et pays à

revenu faible. Les profils lignes et colonnes ont permis de comparer les structures de mortalité de manière normalisée et d'identifier les causes et pays les plus contributifs à chaque axe factoriel.

Le test du khi-deux a confirmé l'existence d'une dépendance statistique entre pays et causes de décès, bien que la force de cette liaison soit modérée. L'AFC a permis de synthétiser cette information dans un espace de faible dimension, en sélectionnant les axes les plus pertinents selon les critères de Kaiser et du bâton brisé. L'examen des plans factoriels, des contributions et des distances au centre de gravité a fourni une compréhension détaillée des profils atypiques et des similarités entre pays et causes.

En conclusion, cette approche méthodologique a permis d'identifier les tendances globales et les particularités locales de la mortalité, fournissant une base solide pour des analyses comparatives et pour des prises de décision en santé publique. Les résultats mettent en évidence à la fois les déterminants communs et les spécificités nationales des causes de décès, illustrant l'intérêt des méthodes multivariées pour l'analyse de données de grande dimension.

6 Références

6.1 Articles, manuels R, sources des données