



## Codebook

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## 1 What is xSub?

**xSub** /cross-sub.org/ is a repository of micro-level, subnational event data on armed conflict and political violence around the world. Our goal is to preserve and consolidate multiple open-source data collections in one comprehensive electronic archive, creating a “database of databases” for purposes of research, education, policy-making and evaluation. The archive currently includes data on violence and protests from 139 countries (1942-2016), from 21 data sources, including both large data collections and individual scholars. To facilitate comparisons across countries and sources, **xSub** organizes these data into common units of analysis, by space (country, province, district, grid cell, electoral constituency) and time (year, month, week). The data are available to download, at no cost, from the data page.

## 2 Why xSub?

Traditionally, research on civil conflict has maintained a cross-national focus, tracking macro-level trends across states, but overlooking variation within them. A growing movement in sub-national research has disaggregated actors and actions to a more granular local level, but mostly within a single country or conflict. With few attempts to generalize beyond the idiosyncrasies of an individual case, subnational conflict research has produced a series of contradictory findings, impeding the accumulation of knowledge. As a result, social scientists have been unable to answer the kinds of questions that activists, policymakers and ordinary citizens care about most, such as when and where violence is likely to occur, how it are likely to unfold, and – importantly – whether the lessons of previous conflicts apply to new ones. Our aim is to eliminate the disaggregation-generalizability tradeoff and enable a more theoretically comprehensive and rigorous approach to this field of research, by developing a unified platform for **Cross-National Data on Sub-National Violence (xSub)**.

To a greater extent than macro-level work, disaggregated, sub-national research on civil conflict has faced steep problems of external validity, perpetuating disagreements over how idiosyncratic these findings really are. The discovery of a positive relationship between, say, repression and dissent in country A is not evidence of a similar relationship in country B, yet most sub-national analyses stop at the borders of country A, without attempting to validate results with data from other conflicts. Also unknown is how robust empirical results are across sources and measurement strategies – whether media-generated data agree with archival sources, or whether manually-classified event reports tell the same story as data collected with automated techniques, like natural language processing and machine learning.

The chief barrier to generalizability is not a lack of data on violence or covariates in country B – in many cases these data already exist and are in the public domain. The problem is that no one has yet undertaken the entrepreneurial effort to merge and combine these disparate sub-national conflict datasets into a unified, analysis-ready format, with consistent theoretical constructs, definitions, measurement and levels of analysis. Without such an effort, the field cannot move forward.

**xSub** addresses this problem explicitly. xSub is a web-based program that pulls together

dozens of existing sub-national databases, and aggregates the relevant conflict events and covariates to consistent units of analysis across countries and conflicts. As a public good, xSub will significantly reduce the barriers to comparative sub-national research, empowering researchers to better situate their theoretical investigations and quickly construct custom, analysis-ready datasets. Similar initiatives have long existed for macro-level cross-national conflict data, most notably the [EUGene software](#) by Bennett and Stam. No resource of this kind currently exists for sub-national conflict data.

### 3 How to Use xSub

**xSub** /[cross-sub.org/](http://cross-sub.org/) is a repository of micro-level, subnational event data on armed conflict and political violence around the world.

Through the online interface, users select:

1. a country and data source, in either order.
2. a unit of analysis
  - space: country / province / district / grid / electoral constituency
  - time: year / month / week

The website then generates a compressed archive with:

1. dataset
  - file format: comma-separated values delimited text file (.csv)
  - data structure: cross-sectional time-series
  - number of observations:  $N \times T$ , where  $N$  is the number of spatial units (e.g. districts, grid cells), and  $T$  is the number of time units (e.g. months, weeks)
  - variables included: unit IDs, violence event counts (broken down by actors and tactics), covariates (local demographics, geography, ethnicity, weather)
2. map and time plot of violence
  - file format: portable network graphics (.png)
  - map: number of violent events per spatial units (darker shade = more violence)
  - time plot: number of violent events per time unit (higher bars = more violence)
3. codebook
  - file format: portable document format (.pdf)
  - contents: information on variable names, data structure

#### 4. actor dictionary

- file format: portable document format (.pdf)
- contents: information on which specific actors are classified as “government,” “rebel,” and other categories in the file

## 4 Sources

The current **xSub** release features data on 139 countries from 21 sources, including

- [American Bar Association / Darfur](#)
- [Armed Conflict Location and Event Data Project \(ACLED\)](#)
- [Beissinger / Protest](#)
- [Beissinger / Riot](#)
- [Beissinger / Ukraine](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Afghanistan / WITS](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Iraq / SIGACT](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Iraq / WITS](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Mexico / Drug-Related Murders](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Mexico / Homicides](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Pakistan / BFRS](#)
- [Empirical Studies of Conflict Project \(ESOC\) / Pakistan / WITS](#)
- [Ferwerda and Miller](#)
- [National Violence Monitoring System \(NVMS\) Indonesia](#)
- [Political Instability Task Force / Worldwide Atrocities Dataset](#)
- [Social Conflict Analysis Database \(SCAD\)](#)
- [UCDP / Georeferenced Event Dataset](#)
- [Zhukov / North Caucasus](#)
- [Zhukov / Chechnya](#)
- [Zhukov / Libya](#)
- [Zhukov / Ukraine](#)

## 5 How to Cite

When using data from the **xSub** archive, please cite both the original data source you are using and the xSub project.

### Citation information for **xSub**

- Zhukov, Yuri M., Christian Davenport, and Nadiya Kostyuk. 2017. xSub: Cross-National Data on Subnational Violence. Produced and distributed by Ann Arbor, MI: Center for Political Studies, University of Michigan.

### Citation information for data sources featured in **xSub**

- [American Bar Association / Darfur](#)
  - Totten, Samuel. “The US Investigation into the Darfur Crisis and the US Government’s Determination of Genocide.” *Genocide Studies and Prevention* 1, no. 1 (2006): 57-78.
- [Armed Conflict Location and Event Data Project \(ACLED\)](#)
  - Raleigh, Clionadh, Andrew Linke, Håvard Hegre, and Joakim Karlsen. “Introducing ACLED: An armed conflict location and event dataset special data feature.” *Journal of Peace Research* 47, no. 5 (2010): 651-660.
- [Beissinger / Protest](#)
  - Beissinger, Mark R. *Nationalist mobilization and the collapse of the Soviet State*. Cambridge University Press, 2002.
- [Beissinger / Riot](#)
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- [Empirical Studies of Conflict Project \(ESOC\) / Afghanistan / WITS](#)
  - Wigle, John. “Introducing the worldwide incidents tracking system (WITS).” *Perspectives on Terrorism* 4, no. 1 (2010).
- [Empirical Studies of Conflict Project \(ESOC\) / Iraq / SIGACT](#)

- Eli Berman, Jacob N. Shapiro, and Joseph H. Felter, “Can Hearts and Minds Be Bought? The Economics of Counterinsurgency in Iraq,” *Journal of Political Economy* 119, no. 4 (August 2011).
- [Empirical Studies of Conflict Project \(ESOC\) / Iraq / WITS](#)
  - Wigle, John. “Introducing the worldwide incidents tracking system (WITS).” *Perspectives on Terrorism* 4, no. 1 (2010).
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  - Calderón, Gabriela, Gustavo Robles, Alberto Díaz-Cayeros, and Beatriz Magaloni. “The beheading of criminal organizations and the dynamics of violence in Mexico.” *Journal of Conflict Resolution* 59, no. 8 (2015): 1455-1485.
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- [Empirical Studies of Conflict Project \(ESOC\) / Pakistan / WITS](#)
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- [Ferwerda and Miller](#)
  - Ferwerda, Jeremy, and Nicholas L. Miller. “Political devolution and resistance to foreign rule: A natural experiment.” *American Political Science Review* 108, no. 03 (2014): 642-660.
- [National Violence Monitoring System \(NVMS\) Indonesia](#)
  - Barron, Patrick, Sana Jaffrey, and Ashutosh Varshney. “When Large Conflicts Subside: The Ebbs and Flows of Violence in Post-Suharto Indonesia.” *Journal of East Asian Studies* 16, no. 02 (2016): 191-217.
- [Political Instability Task Force / Worldwide Atrocities Dataset](#)
  - Schrodtt, Philip A. and Jay Ulfelder, “Political Instability Task Force Atrocities Event Data Collection,” Version 1.1b1 (September 12, 2016)
- [Social Conflict Analysis Database \(SCAD\)](#)
  - Salehyan, Idean, Cullen S. Hendrix, Jesse Hamner, Christina Case, Christopher Linebarger, Emily Stull, and Jennifer Williams. “Social conflict in Africa: A new database.” *International Interactions* 38, no. 4 (2012): 503-511.

- [UCDP / Georeferenced Event Dataset](#)
  - Sundberg, Ralph, and Erik Melander. “Introducing the UCDP Georeferenced Event Dataset.” *Journal of Peace Research* 50, no. 4 (2013): 523-532.
- [Zhukov / North Caucasus](#)
  - Toft, Monica Duffy, and Yuri M. Zhukov. “Islamists and nationalists: Rebel motivation and counterinsurgency in Russia’s North Caucasus.” *American Political Science Review* 109, no. 02 (2015): 222-238.
- [Zhukov / Chechnya](#)
  - Zhukov, Yuri M. *Theory of Indiscriminate Violence*. Ph.D. Dissertation, Harvard University (2014).
- [Zhukov / Libya](#)
  - Baum, Matthew A., and Yuri M. Zhukov. “Filtering revolution: Reporting bias in international newspaper coverage of the Libyan civil war.” *Journal of Peace Research* 52, no. 3 (2015): 384-400.
- [Zhukov / Ukraine](#)
  - Zhukov, Yuri M. “Trading hard hats for combat helmets: The economics of rebellion in eastern Ukraine.” *Journal of Comparative Economics* 44, no. 1 (2016): 1-15.

## 6 Our Team

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**Nadiya Kostyuk** is xSub’s chief data scientist. She is a doctoral candidate in Political Science and Public Policy at the University of Michigan, and (in 2017-2018) a pre-doctoral fellow with the Belfer Center for Science and International Affairs at Harvard’s Kennedy School.



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**Andrew Versalle** is xSub’s chief web developer. He is a software engineer based in Ypsilanti, MI.

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## 7 Units of Analysis

**xSub** datasets are available at multiple levels of analysis, which users can customize to their needs. The spatio-temporal resolution of the panel data can thus range from macro-level (e.g. country-year) to meso-level (e.g. province-month) and micro-level (e.g. grid-week).

Spatial units:

- **country** [adm0]: country or national level
- **province** [adm1]: 1st order administrative division (e.g. U.S. state)
- **district** [adm2]: 2nd order administrative division (e.g. U.S. county)
- **grid cell** [priogrid]: 0.5 x 0.5 decimal degree regular grid (PRIO-GRID)
- **electoral constituency** [clea]: geographic units used by the Constituency-Level Elections Archive (CLEA)

Temporal units:

- **year**
- **month**
- **week**

Output datasets feature violent event counts and local demographic, geographic, ethnic and weather variables, aggregated to the user’s preferred units. For example, if the user selects “Space: district” and “Time: week”, the dataset will include repeated weekly observations for each district, with the total number of violent incidents at each time period (broken down by actor and tactics), and local average statistics for weather and other covariates.

## 8 Variables Included

**xSub** datasets include variables from two categories:

1. conflict and violence
2. local demographics, geography, ethnicity, weather

### 8.1 ID variables

The following variables identify spatial and temporal units, and can be used for merging and aggregation:

- ID\_0: GADM country ID (numeric)
- ISO: ISO3 country ID (string)
- NAME\_0: country name (string)
- ID\_1: GADM province ID (numeric)
- NAME\_1: province name (string)
- ID\_2: GADM district ID (numeric)
- NAME\_2: district name (string)
- CLEA\_CST: electoral constituency ID / format is “A.B.C”, where A is the CLEA country code, B is the election year, C is the CLEA constituency number (string)
- CLEA\_CST\_N: name of electoral constituency (string)
- PRIO\_GID: PRIO-GRID cell ID (numeric)
- PRIO\_XCOORD: longitude of cell centroid (numeric)
- PRIO\_YCOORD: latitude of cell centroid (numeric)
- PRIO\_COL: PRIO-GRID column number (numeric)
- PRIO\_ROW: PRIO-GRID row number (numeric)
- YEAR: year (numeric)
- YRMO: year-month (YYYYMM) (numeric)
- WID: week ID (numeric)
- DATE: date (YYYYMMDD) (numeric)

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## 8.2 Event counts: conflict and political violence

- INITIATOR variables:
  - INITIATOR\_SIDEA, INITIATOR\_SIDEB, INITIATOR\_SIDEDEC, INITIATOR\_SIDED
- TARGET variables:
  - TARGET\_SIDEA, TARGET\_SIDEB, TARGET\_SIDEDEC, TARGET\_SIDED
- ACTION variables:
  - ACTION\_ANY, ACTION\_IND, ACTION\_SEL, ACTION\_PRT
- INITIATOR\_ACTION variables:
  - SIDEA\_ANY, SIDEA\_IND, SIDEA\_SEL, SIDEA\_PRT
  - SIDEB\_ANY, SIDEB\_IND, SIDEB\_SEL, SIDEB\_PRT
  - SIDEDEC\_ANY, SIDEDEC\_IND, SIDEDEC\_SEL, SIDEDEC\_PRT

### INITIATOR, TARGET

- SIDE\_A: incumbent government, pro-govt militia, third party acting on incumbent's behalf
- SIDE\_B: rebels, anti-government militia, third party acting on rebels' behalf, and other armed groups directly challenging the government
- SIDE\_C: local militia, tribe, other non-state actors *not* directly challenging the government
- SIDE\_D: civilians

The **actor dictionary** specifies which factions belong to SIDE\_A . . . SIDE\_D for each conflict.

### ACTION

General categories

- ANY: any use of force
- IND: indiscriminate force (e.g. indirect fire, shelling, air strikes, chemical weapons)
- SEL: selective force (e.g. direct fire, arrest, assassination)
- PRT: protest

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### 8.3 Local demographics, geography, ethnicity, weather

- POP\_1990: population per square kilometer, 1990 ([GPW v3](#)) (numeric)
- POP\_1995: population per square kilometer, 1995 ([GPW v3](#)) (numeric)
- POP\_2000: population per square kilometer, 2000 ([GPW v3](#)) (numeric)
- ELEV\_MEAN: average elevation, meters ([ETOPO05](#)) (numeric)
- ELEV\_SD: standard deviation of elevation, meters ([ETOPO05](#)) (numeric)
- ELEV\_MAX: maximum elevation, meters ([ETOPO05](#)) (numeric)
- OPEN\_TERRAIN: proportion of land covered by open terrain (shrublands, savannah, grasslands, barren or sparsely vegetated) ([GLCC](#)) (numeric)
- FOREST: proportion of land covered by evergreen, deciduous or mixed forest ([GLCC](#)) (numeric)
- WETLAND: proportion of land covered by wetlands or water bodies ([GLCC](#)) (numeric)
- FARMLAND: proportion of land covered by croplands ([GLCC](#)) (numeric)
- GREG\_NGROUPS: number of local ethnic groups ([GREG](#)) (numeric)
- GREG\_GROUPS: names of local ethnic groups ([GREG](#)) (string)
- WLMS\_NLANG: number of local languages ([WLMS](#)) (numeric)
- WLMS\_LANGS: names of local languages ([WLMS](#)) (string)
- NBUILTUP: number of built-up areas ([GGIS](#)) (numeric)
- BUILTUP: names of built-up areas ([GGIS](#)) (string)
- NPETRO: number of petroleum fields ([PRIO](#)) (numeric)
- PETRO: names of petroleum fields ([PRIO](#)) (string)
- DIST2PROVCAP: distance to nearest provincial capital, km ([GGIS](#)) (numeric)
- DIST2CAP: distance to national capital, km ([GGIS](#)) (numeric)
- ROAD\_XING: number of primary, secondary roads crossing border ([DCW](#)) (numeric)
- ROAD\_LENGTH: length of primary, secondary roads, km ([DCW](#)) (numeric)
- AREA\_KM2: area of spatial unit, km<sup>2</sup> (numeric)
- ROAD\_DENSITY: road density, km/km<sup>2</sup> ([DCW](#)) (numeric)

- TEMP: average temperature in Celsius ([NOAA](#)) (numeric)
- RAIN: average precipitation in millimeters ([NOAA](#)) (numeric)

## 9 GIS Compatibility

**xSub** datasets are designed for compatibility with Geographic Information Systems (GIS). Each file contains a spatial unit ID that can be used to merge the event data to GIS spatial geometry files, like ESRI polygon shapefiles (.shp), and R SpatialPolygons (.RData).

Spatial Unit	Type	Merge Variables	Link to GIS Files
country [adm0]	Global Administrative Areas	ID_0, NAME_0	<a href="http://gadm.org">gadm.org</a>
province [adm1]	Global Administrative Areas	ID_1, NAME_2	<a href="http://gadm.org">gadm.org</a>
district [adm2]	Global Administrative Areas	ID_2, NAME_2	<a href="http://gadm.org">gadm.org</a>
grid [priogrid]	PRIO Grid	PRIO_GID, PRIO_COL, PRIO_ROW	<a href="http://grid.prio.org">grid.prio.org</a>
constituency [clea]	CLEA polygons	CLEA_CST_N, CLEA_CST	<a href="http://electiondataarchive.org">electiondataarchive.org</a>

## 10 XSub Data in Detail

Table 1 provides information on each country included in **xSub**. It includes information on data sources, the number of reported violent events in each source, the time period covered, the actors included, and the most detailed spatio-temporal levels of analysis available.

Table 1: XSUB DATA IN DETAILS

								<i>Page 1 of Table 1</i>
<i>ID</i>	<i>Country</i>	<i>ISO3</i>	<i>Dates</i>	<i>EventNum</i>	<i>Actors</i>	<i>Spatial</i>	<i>Time</i>	<i>Source</i>
1	Afghanistan	AFG	1989-2014	18030	G/R	M	D	UCDP_GED
			1995-2015	656	G/R	M	D	PITF
			2002-2009	7846	G/R	M	D	ESOC_WITS
2	Albania	ALB	1996-1999	3	G/R	M	D	PITF
3	Algeria	DZA	1990-2015	366	G/R	M	D	SCAD
			1990-2014	4022	G/R	M	D	UCDP_GED
			1995-2015	360	G/R	M	D	PITF
			1997-2016	4352	G/R	M	D	ACLEd
4	Angola	AGO	1975-2015	129	G/R	M	D	SCAD
			1989-2014	1918	G/R	M	D	UCDP_GED
			1995-2016	84	G/R	M	D	PITF
			1997-2016	3070	G/R	M	D	ACLEd
5	Argentina	ARG	1992-1992	1	G/R	M	D	UCDP_GED
6	Armenia	ARM	2000-2015	2	G/R	M	D	PITF
7	Bahamas	BHS	2014-2014	1	G/R	M	D	PITF
8	Bahrain	BHR	1996-2014	3	G/R	M	D	PITF
			2011-2011	24	G/R	M	D	UCDP_GED
9	Bangladesh	BGD	1989-2014	495	G/R	M	D	UCDP_GED
			1995-2016	72	G/R	M	D	PITF
			2015-2016	2137	G/R	M	D	ACLEd
10	Barbados	BRB	2010-2010	1	G/R	M	D	PITF
11	Belarus	BLR	2011-2011	1	G/R	M	D	PITF
12	Belgium	BEL	2016-2016	1	G/R	M	D	PITF
13	Belize	BLZ	2000-2014	2	G/R	M	D	PITF
14	Benin	BEN	1990-2014	84	G/R	M	D	SCAD
			1997-2016	137	G/R	M	D	ACLEd
15	Bhutan	BTN	1997-2004	2	G/R	M	D	UCDP_GED
16	Bolivia	BOL	2000-2016	9	G/R	M	D	PITF
17	Bosnia & Herzegovina	BIH	1995-2008	31	G/R	M	D	PITF
18	Botswana	BWA	1990-1990	1	G/R	M	D	UCDP_GED
			1991-2012	17	G/R	M	D	SCAD
			1997-2016	49	G/R	M	D	ACLEd
19	Brazil	BRA	1995-2016	75	G/R	M	D	PITF
20	Bulgaria	BGR	2005-2012	2	G/R	M	D	PITF
21	Burkina Faso	BFA	1991-2015	107	G/R	M	D	SCAD
			1997-2016	619	G/R	M	D	ACLEd
			2002-2016	4	G/R	M	D	PITF
22	Burundi	BDI	1990-2014	1390	G/R	M	D	UCDP_GED
			1991-2015	277	G/R	M	D	SCAD
			1995-2016	258	G/R	M	D	PITF
			1997-2016	6727	G/R	M	D	ACLEd
23	Cambodia	KHM	1989-2012	551	G/R	M	D	UCDP_GED
			1995-2016	25	G/R	M	D	PITF
			2015-2016	301	G/R	M	D	ACLEd
24	Cameroon	CMR	1990-2015	210	G/R	M	D	SCAD
			1990-2014	86	G/R	M	D	UCDP_GED
			1997-2016	668	G/R	M	D	ACLEd
			2004-2015	27	G/R	M	D	PITF

Continued on next page; *Spatial*–M: municipality; P: province; D: district; *Time*–D: Day; W: week; Y: year; C: conflict

ID	Country	ISO3	Dates	EventNum	Actors	Spatial	Time	Source
25	Central African Republic	CAF	1990-2015	332	G/R	M	D	SCAD
			1991-2014	751	G/R	M	D	UCDP_GED
			1997-2016	3446	G/R	M	D	ACLED
			1997-2016	81	G/R	M	D	PITF
26	Chad	TCD	1989-2015	91	G/R	M	D	SCAD
			1989-2014	300	G/R	M	D	UCDP_GED
			1997-2016	667	G/R	M	D	ACLED
			1997-2016	27	G/R	M	D	PITF
27	China	CHN	1989-2009	35	G/R	M	D	UCDP_GED
			1996-2016	67	G/R	M	D	PITF
28	Colombia	COL	1995-2016	322	G/R	M	D	PITF
29	Comoros	COM	1989-1998	7	G/R	M	D	UCDP_GED
			1998-1998	1	G/R	M	D	PITF
30	Congo	COG	1991-2015	48	G/R	M	D	SCAD
			1992-2012	219	G/R	M	D	UCDP_GED
			1997-2016	14	G/R	M	D	PITF
			1997-2016	416	G/R	M	D	ACLED
31	Congo, the Democratic Republic of the	COD	1989-2014	2610	G/R	M	D	UCDP_GED
			1990-2015	617	G/R	M	D	SCAD
			1995-2016	255	G/R	M	D	PITF
			1997-2016	10778	G/R	M	D	ACLED
32	Costa Rica	CRI	1993-2013	35	G/R	M	D	SCAD
33	Cote d'Ivoire	CIV	1990-2015	362	G/R	M	D	SCAD
			1990-2013	269	G/R	M	D	UCDP_GED
			1992-2014	56	G/R	M	D	GTD
			1995-2016	73	G/R	M	D	PITF
			1997-2016	1642	G/R	M	D	ACLED
34	Croatia	HRV	1995-1995	3	G/R	M	D	PITF
35	Cuba	CUB	1990-2012	266	G/R	M	D	SCAD
			2002-2002	1	G/R	M	D	PITF
36	Djibouti	DJI	1989-2014	47	G/R	M	D	UCDP_GED
			1997-2016	106	G/R	M	D	ACLED
37	Dominican Republic	DOM	1990-2013	210	G/R	M	D	SCAD
			1998-2015	6	G/R	M	D	PITF
38	Ecuador	ECU	2000-2014	3	G/R	M	D	PITF
39	Egypt	EGY	1990-2015	1838	G/R	M	D	SCAD
			1990-2014	479	G/R	M	D	UCDP_GED
			1995-2016	72	G/R	M	D	PITF
			1997-2016	8152	G/R	M	D	ACLED
40	El Salvador	SLV	1992-2013	115	G/R	M	D	SCAD
			1996-2016	13	G/R	M	D	PITF
41	Equatorial Guinea	GNQ	1997-2016	42	G/R	M	D	ACLED
42	Eritrea	ERI	1993-2013	19	G/R	M	D	SCAD
			1993-2003	42	G/R	M	D	UCDP_GED
			1996-2004	6	G/R	M	D	PITF
			1997-2016	402	G/R	M	D	ACLED
43	Ethiopia	ETH	1964-2015	141	G/R	M	D	SCAD
			1989-2014	1611	G/R	M	D	UCDP_GED
			1995-2016	59	G/R	M	D	PITF
			1997-2016	1997	G/R	M	D	ACLED
44	Finland	FIN	2002-2002	1	G/R	M	D	PITF
45	France	FRA	1942-1944	1429	G/R	D	M	FerwerdaMiller
			1992-2012	4	G/R	M	D	UCDP_GED
			1995-2016	11	G/R	M	D	PITF
46	Gabon	GAB	1990-2015	89	G/R	M	D	SCAD
			1997-2016	167	G/R	M	D	ACLED
			2009-2009	1	G/R	M	D	PITF
47	Gambia	GMB	1994-2053	18	G/R	M	D	SCAD
			1997-2016	140	G/R	M	D	ACLED
			2000-2016	2	G/R	M	D	PITF

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48	Georgia	GEO	2000-2008	2	G/R	M	D	PITF
49	Germany	DEU	1992-1992	1	G/R	M	D	UCDP_GED
			2000-2016	4	G/R	M	D	PITF
50	Ghana	GHA	1991-2015	108	G/R	M	D	SCAD
			1991-2010	38	G/R	M	D	UCDP_GED
			1995-2016	6	G/R	M	D	PITF
			1997-2016	491	G/R	M	D	ACLED
51	Greece	GRC	2013-2013	1	G/R	M	D	PITF
52	Guatemala	GTM	1977-1994	69681	G/R	M	M	Sullivan
			1990-2013	315	G/R	M	D	SCAD
			1995-2016	37	G/R	M	D	PITF
53	Guinea	GIN	1991-2015	165	G/R	M	D	SCAD
			1994-2013	73	G/R	M	D	UCDP_GED
			1996-2016	19	G/R	M	D	PITF
			1997-2016	805	G/R	M	D	ACLED
54	Guinea-Bissau	GNB	1992-2000	22	G/R	M	D	UCDP_GED
			1995-2014	69	G/R	M	D	SCAD
			1997-2016	216	G/R	M	D	ACLED
			1998-2014	4	G/R	M	D	PITF
55	Guyana	GUY	2003-2016	5	G/R	M	D	PITF
56	Haiti	HTI	1990-2013	1268	G/R	M	D	SCAD
			1997-2014	24	G/R	M	D	PITF
57	Honduras	HND	1990-2013	186	G/R	M	D	SCAD
			2000-2016	31	G/R	M	D	PITF
58	India	IND	1989-2014	13688	G/R	M	D	UCDP_GED
			1995-2016	507	G/R	M	D	PITF
			2016-2016	29576	G/R	M	D	ACLED
59	Indonesia	IDN	1989-2011	1683	G/R	M	D	UCDP_GED
			1995-2016	97	G/R	M	D	PITF
			1997-2015	217834	G/R	M	C	NVMS
60	Iran, Islamic Republic	IRN	1990-2014	218	G/R	M	D	UCDP_GED
			1995-2016	29	G/R	M	D	PITF
61	Iraq	IRQ	1990-2014	5081	G/R	M	D	UCDP_GED
			1995-2016	2079	G/R	M	D	PITF
			2003-2015	29191	G/R	M	D	Zhukov
			2004-2009	27456	G/R	D	WEEK	ESOC_SIGACT
			2004-2010	25490	G/R	M	D	ESOC_WITS
62	Israel	ISR	1989-2014	2671	G/R	M	D	UCDP_GED
			1995-2014	152	G/R	M	D	PITF
63	Italy	ITA	1993-1993	1	G/R	M	D	UCDP_GED
			1995-2010	6	G/R	M	D	PITF
64	Jamaica	JAM	1992-2013	264	G/R	M	D	SCAD
			2000-2010	11	G/R	M	D	PITF
65	Japan	JPN	1995-2016	2	G/R	M	D	PITF
66	Jordan	JOR	1992-2005	2	G/R	M	D	UCDP_GED
			1997-2016	5	G/R	M	D	PITF
67	Kazakhstan	KAZ	2012-2015	2	G/R	M	D	PITF
68	Kenya	KEN	1989-2014	640	G/R	M	D	UCDP_GED
			1990-2015	700	G/R	M	D	SCAD
			1995-2016	187	G/R	M	D	PITF
			1997-2016	5311	G/R	M	D	ACLED
69	Korea, Republic of	KOR	1996-1996	1	G/R	M	D	PITF
70	Kuwait	KWT	1990-1996	39	G/R	M	D	UCDP_GED
			2005-2015	2	G/R	M	D	PITF
71	Kyrgyzstan	KGZ	1999-2010	46	G/R	M	D	UCDP_GED
			2002-2010	4	G/R	M	D	PITF
72	Lao People's Democratic Republic	LAO	1989-2006	24	G/R	M	D	UCDP_GED
			2003-2006	5	G/R	M	D	PITF
			2015-2016	14	G/R	M	D	ACLED
73	Lebanon	LBN	1989-2014	986	G/R	M	D	UCDP_GED
			1996-2016	88	G/R	M	D	PITF

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74	Lesotho	LSO	1991-2015 1997-2016 1998-1998 2002-2002	67 114 4 1	G/R G/R G/R G/R	M M M M	D D D D	SCAD ACLED UCDP_GED PITF
75	Liberia	LBR	1989-2015 1989-2003 1995-2015 1997-2016	132 548 28 1268	G/R G/R G/R G/R	M M M M	D D D D	SCAD UCDP_GED PITF ACLED
76	Libya	LYB	1990-2015 1997-2016 2006-2016 2011-2014 2011-2011	737 5181 126 329 1510	G/R G/R G/R G/R G/R	M M M M M	D D D D D	SCAD ACLED PITF UCDP_GED Zhukov
77	Lithuania	LTU	1998-2013	2	G/R	M	D	PITF
78	Macedonia	MKD	2001-2001	3	G/R	M	D	PITF
79	Madagascar	MDG	1990-2015 1997-2016 2002-2012 2009-2014	104 875 42 4	G/R G/R G/R G/R	M M M M	D D D D	SCAD ACLED UCDP_GED PITF
80	Malawi	MWI	1990-2015 1997-2016 2011-2015	152 341 3	G/R G/R G/R	M M M	D D D	SCAD ACLED PITF
81	Malaysia	MYS	2007-2014 2013-2013	2 14	G/R G/R	M M	D D	PITF UCDP_GED
82	Mali	MLI	1990-2014 1990-2015 1997-2016 1999-2016	254 436 1310 26	G/R G/R G/R G/R	M M M M	D D D D	UCDP_GED SCAD ACLED PITF
83	Malta	MLT	1995-1995	1	G/R	M	D	UCDP_GED
84	Mauritania	MRT	1989-2012 1990-2015 1997-2016 2003-2003	29 117 422 1	G/R G/R G/R G/R	M M M M	D D D D	UCDP_GED SCAD ACLED PITF
85	Mauritius	MUS	1999-2015	9	G/R	M	D	SCAD
86	Mexico	MEX	1989-2013 1995-2016 1998-2011	1737 233 34398	G/R G/R G/R	M M M	D D Y	SCAD PITF ESOC_NSHI
87	Moldova	MDA	2006-2006	1	G/R	M	D	PITF
88	Morocco	MAR	1989-2003 1990-2015 1997-2016 2003-2011	10 211 1112 3	G/R G/R G/R G/R	M M M M	D D D D	UCDP_GED SCAD ACLED PITF
89	Mozambique	MOZ	1977-2015 1989-2014 1997-2016 2003-2016	112 287 741 10	G/R G/R G/R G/R	M M M M	D D D D	SCAD UCDP_GED ACLED PITF
90	Myanmar	MMR	1989-2014 1995-2015 2015-2016	2198 32 778	G/R G/R G/R	M M M	D D D	UCDP_GED PITF ACLED
91	Namibia	NAM	1989-2002 1992-2014 1997-2016 2000-2014	22 32 694 3	G/R G/R G/R G/R	M M M M	D D D D	UCDP_GED SCAD ACLED PITF
92	Nepal	NPL	1990-2009 1996-2008 2015-2016	5652 26 1115	G/R G/R G/R	M M M	D D D	UCDP_GED PITF ACLED
93	Netherlands	NLD	1997-2014	4	G/R	M	D	PITF
94	Nicaragua	NIC	1990-2013 2000-2014	151 4	G/R G/R	M M	D D	SCAD PITF

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95	Niger	NER	1989-2013	97	G/R	M	D	UCDP_GED
			1990-2015	265	G/R	M	D	SCAD
			1995-2016	19	G/R	M	D	PITF
			1997-2016	534	G/R	M	D	ACLED
96	Nigeria	NGA	1990-2013	1492	G/R	M	D	SCAD
			1990-2014	2078	G/R	M	D	UCDP_GED
			1995-2016	1002	G/R	M	D	PITF
			1997-2016	9998	G/R	M	D	ACLED
97	Norway	NOR	2011-2011	1	G/R	M	D	PITF
98	Oman	OMN	2011-2011	1	G/R	M	D	PITF
99	Pakistan	PAK	1988-2011	29969	G/R	M	D	ESOC.BFRS
			1989-2014	5114	G/R	M	D	UCDP_GED
			1995-2016	742	G/R	M	D	PITF
			2015-2016	2842	G/R	M	D	ACLED
2004-2009	5601	G/R	M	D	ESOC.WITS			
100	Palestine, State of	PSE	2012-2012	1	G/R	M	D	PITF
101	Panama	PAN	1990-2013	90	G/R	M	D	SCAD
102	Papua New Guinea	PNG	1989-2012	117	G/R	M	D	UCDP_GED
			1996-2016	7	G/R	M	D	PITF
103	Peru	PER	1996-2014	15	G/R	M	D	PITF
104	Philippines	PHL	1989-2014	2760	G/R	M	D	UCDP_GED
			1995-2016	136	G/R	M	D	PITF
105	Poland	POL	1998-1998	1	G/R	M	D	PITF
106	Portugal	PRT	2000-2000	1	G/R	M	D	PITF
107	Puerto Rico	PRI	2009-2009	1	G/R	M	D	PITF
108	Russian Federation	RUS	1991-1996	13298	G/R	M	D	Zhukov
			1994-2016	124	G/R	M	D	PITF
			2000-2012	63673	G/R	M	D	Zhukov
109	Rwanda	RWA	1990-2013	106	G/R	M	D	SCAD
			1990-2013	495	G/R	M	D	UCDP_GED
			1994-2009	885	G/R	M	D	Davenport
			1995-2001	89	G/R	M	D	PITF
1997-2016	621	G/R	M	D	ACLED			
110	Saudi Arabia	SAU	1991-2007	16	G/R	M	D	UCDP_GED
			1995-2016	13	G/R	M	D	PITF
111	Senegal	SEN	1989-2013	305	G/R	M	D	UCDP_GED
			1990-2015	192	G/R	M	D	SCAD
			1995-2014	18	G/R	M	D	PITF
			1997-2016	1013	G/R	M	D	ACLED
112	Serbia	SRB	1998-2004	52	G/R	M	D	PITF
113	Sierra Leone	SLE	1990-2015	129	G/R	M	D	SCAD
			1991-2002	1466	G/R	M	D	UCDP_GED
			1995-2007	33	G/R	M	D	PITF
			1997-2016	4625	G/R	M	D	ACLED
114	Slovakia	SVK	1999-2010	2	G/R	M	D	PITF
115	Solomon Islands	SLB	2002-2003	3	G/R	M	D	PITF
			1992-1992	1	G/R	M	D	UCDP_GED
116	Somalia	SOM	1986-2016	716	G/R	M	D	SCAD
			1989-2014	3400	G/R	M	D	UCDP_GED
			1995-2016	532	G/R	M	D	PITF
			1997-2016	21538	G/R	M	D	ACLED
117	South Africa	ZAF	1989-2010	2781	G/R	M	D	UCDP_GED
			1990-2015	1258	G/R	M	D	SCAD
			1995-2016	75	G/R	M	D	PITF
			1997-2016	48845	G/R	M	D	ACLED
118	South Sudan	SSD	2011-2016	3460	G/R	M	D	ACLED
			2011-2016	60	G/R	M	D	PITF
			2011-2015	117	G/R	M	D	SCAD
			2011-2014	305	G/R	M	D	UCDP_GED
119	Spain	ESP	1995-2004	3	G/R	M	D	PITF

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120	Sri Lanka	LKA	1989-2013	4575	G/R	M	D	UCDP_GED
			1995-2016	158	G/R	M	D	PITF
			2015-2016	438	G/R	M	D	ACLED
121	Sudan	SDN	1983-2015	563	G/R	M	D	SCAD
			1989-2014	2345	G/R	M	D	UCDP_GED
			1995-2016	318	G/R	M	D	PITF
			1997-2016	10150	G/R	M	D	ACLED
122	Swaziland	SWZ	1989-1989	2	G/R	M	D	UCDP_GED
			1990-2014	94	G/R	M	D	SCAD
			1996-1996	1	G/R	M	D	PITF
			1997-2016	191	G/R	M	D	ACLED
123	Switzerland	CHE	2001-2001	1	G/R	M	D	PITF
124	Syrian Arab Republic	SYR	1996-2016	2329	G/R	M	D	PITF
			2004-2014	408	G/R	M	D	UCDP_GED
			2011-2015	13730	G/R	M	D	Zhukov
125	Tajikistan	TJK	1995-2000	9	G/R	M	D	PITF
126	Tanzania	TZA	1992-2013	286	G/R	M	D	UCDP_GED
			1990-2015	114	G/R	M	D	SCAD
			1992-2007	12	G/R	M	D	UCDP_GED
			1995-2016	11	G/R	M	D	PITF
			1997-2016	687	G/R	M	D	ACLED
127	Thailand	THA	1989-2014	2495	G/R	M	D	UCDP_GED
			1995-2016	44	G/R	M	D	PITF
			2015-2016	504	G/R	M	D	ACLED
128	Timor-Leste	TLS	2006-2006	2	G/R	M	D	PITF
129	Togo	TGO	1990-2015	126	G/R	M	D	SCAD
			1991-2005	106	G/R	M	D	UCDP_GED
			1997-2016	230	G/R	M	D	ACLED
			1998-2005	3	G/R	M	D	PITF
130	Trinidad and Tobago	TTO	1995-2013	3	G/R	M	D	PITF
			1995-2012	43	G/R	M	D	SCAD
131	Tunisia	TUN	1991-2015	323	G/R	M	D	SCAD
			1997-2016	3110	G/R	M	D	ACLED
			2011-2016	8	G/R	M	D	PITF
132	Turkey	TUR	1989-2014	4233	G/R	M	D	UCDP_GED
			1992-2016	73	G/R	M	D	PITF
133	Uganda	UGA	1978-2013	107	G/R	M	D	SCAD
			1989-2014	1666	G/R	M	D	UCDP_GED
			1995-2016	160	G/R	M	D	PITF
			1997-2016	4871	G/R	M	D	ACLED
134	Ukraine	UKR	1996-2016	68	G/R	M	D	PITF
			2014-2016	26289	G/R	M	D	Zhukov
135	United Arab Emirates	ARE	2010-2010	1	G/R	M	D	UCDP_GED
136	United Kingdom	GBR	1968-1998		G/R	M	D	Davenport
			1997-2016	7	G/R	M	D	PITF
			2005-2005	1	G/R	M	D	UCDP_GED
137	United States	USA	2001-2009	2	G/R	M	D	UCDP_GED
138	Uzbekistan	UZB	1999-2005	4	G/R	M	D	PITF
			1999-2009	32	G/R	M	D	UCDP_GED
139	Venezuela	VEN	1996-2016	27	G/R	M	D	PITF
140	Viet Nam	VNM	1997-2013	4	G/R	M	D	PITF
			2015-2016	96	G/R	M	D	ACLED
141	Western Sahara	ESH	1999-1999	1	G/R	M	D	PITF
142	Yemen	YEM	1998-2016	217	G/R	M	D	PITF
			1994-2014	1001	G/R	M	D	UCDP_GED
143	Zambia	ZMB	1989-2001	12	G/R	M	D	UCDP_GED
			1990-2015	158	G/R	M	D	SCAD
			1997-2016	1135	G/R	M	D	ACLED
			2001-2012	6	G/R	M	D	PITF

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195	Zimbabwe	ZWE	1989-2012	56	G/R	M	D	UCDP_GED
			1990-2015	489	G/R	M	D	SCAD
			1997-2016	5600	G/R	M	D	ACLED
			2002-2013	2	G/R	M	D	PITF

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