



# Cline Center Historical Phoenix Event Data Variable Descriptions (v1.0.0)

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I L L I N O I S

## **Cline Center Overview**

The Richard G. and Carole J. Cline Center for Democracy is dedicated to advancing human flourishing around the world by using extreme-scale analysis of global news coverage to extract structured insight from unstructured information, equip researchers with new tools for transforming insight into understanding of the causes and consequences of social conflict, and empower decision makers to apply this understanding in ways that promote societal well-being.

The Center's mission encompasses several research activities, including monitoring civil unrest, conflict, and regime change around the world; tracking economic, political, and social indicators for 165 countries and hundreds of ethnic and religious groups; and developing new algorithms and analytical tools for studying the thousands of news sources monitored by the Cline Center. The Center's mission also includes a wide range of teaching and public engagement activities including fellowship programs for faculty and graduate students to undergraduate research opportunities, public lectures and topical symposia.

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## Summary

Roughly 14 million articles from three news sources were processed to produce the Cline Center Historical Phoenix Event Data: the *New York Times* (NYT), the British Broadcasting Corporation's (BBC) Summary of World Broadcasts (SWB), and the Central Intelligence Agency's (CIA) Foreign Broadcast Information Service (FBIS). The NYT was chosen based on its status as the national paper of record and as an authoritative source for events occurring in the US or involving the US government (Nardulli 2014). Using the NYT also enables us to generate a longer time series since the Cline Center has access to NYT content from Jan 1, 1945 to Dec. 30, 2005. SWB and FBIS content was chosen to ensure broad international coverage—these are two open-source information projects generated by government agencies aggregating many foreign-language sources and using highest-quality human translators, covering thousands of broadcast, print, and Internet news outlets (Nardulli 2014, Nardulli and Slana 2013).<sup>1</sup> [Table 1](#) describes these sources in more detail.

Produced with support from fellow members of the [Open Event Data Alliance](#) (Beiler et al. 2016), the Cline Center Historical Phoenix Event Data is generally compatible with the [daily Phoenix data](#) produced by OEDA and uses the same basic event ontology. [Table 2](#) describes the variables in the Cline Center Historical Phoenix Event Data. [Table 4](#) describes the actor and social role codes in this data, and [Table 5](#) isolates the role codes with greater specificity. Lastly, [Table 6](#) contains the CAMEO Event Codes and Root Codes.

The data described in this document was generated using the second version of the *Python Engine for Text Resolution And Related Coding Hierarchy* (PETRARCH-2) software with two modifications (Norris, Schrodt, and Beiler 2017). The first added a unique article identification number (AID) to each event. The AID is the link between the event and the article parsed to produce it. These numbers are unique and stable identifiers used to index news content monitored by the Cline Center. They can thus be used to link events to their corresponding meta-data, such as the article title and publication date (see [Table 3](#) below).

A second modification improved PETRARCH-2's handling of large corpora. The Cline Center's pipeline breaks input corpora into user-defined batches, rather than reading any input corpus as a single—potentially enormous—batch. This made the system more robust to disruption in two ways. First, it minimizes loss of data in the event of a crash, since only a single batch is lost. Second, it reduces the likelihood of crashes and speeds up processing time by keeping the MongoDB database PETRARCH-2 uses internally from becoming unmanageably large. These modifications made data production more efficient—roughly doubling processing speed in some cases.

The PETRARCH-2 versioning information found in [Appendix A](#) contains more specific information pertaining to the software. The pipeline versions used in this summer 2017 release—1.0.0 and 1.0.1—are differentiated only by the way they handle AIDs. The newer software addressed a processing error. This is largely irrelevant for most purposes since the AIDs corresponding to events affected by the error were corrected after production.

<sup>1</sup> NYT content was obtained from ProQuest. SWB content was obtained from LexisNexis Academic and FBIS content was obtained via the University of Illinois Library system with assistance from the Center for Research Libraries.

Users should be aware of three potential validity concerns with these data. First, articles and event-bearing sentences were not de-duplicated. This could inflate event counts in some cases.<sup>2</sup> Second, there was no pre-filtering of the articles to remove content unlikely to contain political events (i.e. sports, fashion/style articles, etc.). This may be especially problematic with the *New York Times* since our preliminary quality control analyses suggest some erroneous conflict events were extracted from sports coverage.<sup>3</sup> Third, only SWB and FBIS were entirely “born digital.” *New York Times* data for the 1945-1980 period was scanned from digital images, and may be affected by optical character recognition (OCR) errors or features of the original microfilm records. The increased ‘noise’ in pre-digital content may have a substantial effect on PETRARCH-2 outputs.

Users can impose their own quality controls using the corresponding meta-data file. These contain title and citation information that can help users identify coverage relevant to their interests or develop their own filtering mechanisms.

For inquiries about this dataset, please contact us at [cline-center@illinois.edu](mailto:cline-center@illinois.edu)

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For codebook versioning information and errata please see the [Codebook Versioning Information](#) section.

<sup>2</sup> The Cline Center has developed tools for de-duplicating articles in the last year (Spring 2017). These tools will be used to de-duplicate future versions of Cline Center Historical Phoenix Event Data.

<sup>3</sup> The Cline Center is developing classification algorithms to address these issues in future versions of Cline Center Historical Phoenix Event Data.

**Table 1**  
**Cline Center Source Material — Descriptive Statistics**

<b>Source</b>	<b>Time Span</b>	<b>Articles Processed</b>	<b>Articles With Events</b>	<b>Events Identified</b>
<b>Summary of World Broadcasts (SWB)</b>	Jan 1, 1979 – June 15, 2015	4,854,282	1,532,017	2,906,715
<b>Foreign Broadcast Information Service (FBIS)</b>	Jan 1, 1995 - Sept 18, 2004	3,281,859	535,287	817,955
<b>New York Times (NYT)</b>	Jan 1, 1945 – Dec. 30, 2005	5,722,324	813,715	1,092,211

**Table 2**  
**Cline Center Historical Phoenix Event Data Variable Descriptions**

Variable	Description
<b>eid</b>	Unique, alpha-numeric event ID number comprised of news source and event number (i.e., SWB0004503, FBIS0000258, NYT0005527).
<b>story_date</b>	The date of the event (format is MM/DD/YYYY).
<b>year</b>	The year of the event.
<b>month</b>	The month of the event.
<b>day</b>	The day of the event.
<b>source</b>	The full code for the initiator of the event, including the nationality code, and all of the available ‘role’ codes (i.e., the 3 variables below, concatenated). The codes can be broken down into three-character clusters. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>source_root</b>	The initiator’s “base” code. This is usually a country code for the nationality of the actor but can also be a code for a category of organizations such as multinational corporations, inter-governmental organizations, non-governmental organizations, non-state international militarized groups, etc. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>source_agent</b>	This describes the primary sub-state identity or functional “role” of the initiator. Examples include: the military or policing agencies, opposition parties, insurgent groups, etc. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>source_others</b>	These codes add additional context to the root and agent codes— including additional nationalities if they are mentioned in the text. It may specify that a multi-national corporation is associated with a specific country, add additional role codes, or continental codes. This column also can include named ethnic or religious groups. Three-letter codes are separated by semi-colons. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>target</b>	The full code for the target of the event, including the nationality code, and all of the available ‘role’ codes (i.e., the 3 variables below, concatenated). The codes can be broken down into three character clusters. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .

<b>target_root</b>	The target’s “base” code. This is usually a country code for the nationality of the actor but can also be a code for a type of organization such as multinational corporations, inter-governmental organizations, non-governmental organizations, international militarized groups, etc. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>target_agent</b>	This describes the primary sub-state identity or functional “role” of the initiator. Examples include: the military or policing agencies, opposition parties, insurgent groups, etc. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>target_others</b>	This adds additional context to the root and agent codes— including additional nationalities if they are mentioned in the text. It may specify that a multi-national corporation is associated with a specific country, add additional role codes, or continental codes. This column also can include named ethnic or religious groups. Three-letter codes are separated by semi-colons. A comprehensive list of actor and role codes is in <a href="#">Table 4</a> . A separate list of role codes can be found in <a href="#">Table 5</a> .
<b>code</b>	The event’s Conflict and Mediation Event Observations (CAMEO) event code (Gerner et al. 2002, Schrodtt et al. 2008). See <a href="#">Table 6</a> for values.
<b>root_code</b>	First two digits of the CAMEO code. These represent one of the 20 top-level CAMEO categories. Root codes are bolded in <a href="#">Table 6</a> .
<b>quad_class</b> <sup>4</sup>	Each event is assigned to one of five classes based on its CAMEO root code. The classes are: 0 – Neutral 1 – Verbal cooperation 2 – Material cooperation 3 – Verbal conflict 4 – Material conflict
<b>goldstein</b>	An intensity scale for conflict and cooperation ranging from -10 to 10 based on a scale generated by Joshua Goldstein (Goldstein 1992) and updated by Philip Schrodtt (Schrodtt 2007)

<sup>4</sup> Some other CAMEO-based datasets and materials may refer to this variable as “penta\_class.” However the version of the PETRARCH2 software used in this analysis retains the “quad\_class” variable name. See Fisher (2016) and Beiler (2016b, 38) for more information, and Beiler (2016a, 28-29) for a table that matches CAMEO codes to their classes.

<b>joined_issues</b>	These are tags for the issues or stakes involved in an event derived through keyword matching. They are intended to add context and may have multiple indicated issues, which are separated by semi-colons. Each issue in the list is followed by a number. This indicates the number of issue-related keywords found in the sentence containing the event. For an example, the phrase “drone strike” in a news story may identify an event related to the issue code “AIRSTRIKE.” A single keyword or phrase would create a tag like “AIRSTRIKE, 1”. If three keywords from the lexicon category “AIRSTRIKE” issues were tagged in the sentence that described the event, the tag would be “AIRSTRIKE, 3”. <sup>5</sup>
<b>lat</b>	An estimated latitude for the event produced by PETRARCH-2’s geo-parser, <a href="#">CLIFF</a> (D’Ignazio et al. 2014).
<b>lon</b>	An estimated longitude for the event produced by PETRARCH-2’s geo-parser, <a href="#">CLIFF</a> .
<b>placename</b>	The most granular place name PETRARCH-2’s geo-parser was able to find—it may be a city, a region, or a country.
<b>statename</b>	The sub-national administrative unit (state or province) containing the location, if this could be determined.
<b>countryname</b>	The country code for location of event produced by PETRARCH-2’s geo-parser.
<b>aid</b>	Article identification number which is a unique number used to identify the article used to generate the event.
<b>process</b>	Identifies the version of the PETRARCH-2 pipeline and production run that produced this data.

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<sup>5</sup> More information about issue-related dictionaries can be found here:  
<https://petrarch2.readthedocs.io/en/latest/dictionaries.html>



**Table 3**  
**Cline Center Meta-Data Variable Descriptions**

Variable	Description
<b>aid</b>	Article identification number. This is a unique number used to identify the article used to generate the event.
<b>title</b>	Title of the article used to produce the event.
<b>primary_source</b>	Source of the article. Can be FBIS, NYT, or SWB.
<b>original_source</b>	This is the original source of the article. This field is only applicable to Summary of World Broadcasts (SWB) and Foreign Broadcast Information Service (FBIS) articles—these are government-supported translation services which aggregate content from other producers.
<b>pubdate</b>	Publication date of the original article used to produce the event. Format is MM/DD/YYYY.
<b>swb_pubdate</b>	The date SWB published the translated version of the article. This can be different from the dates found in the “pubdate” variable due to a lag between the time an original source published and SWB’s publication of the translated version. This variable is only used in the SWB meta-data. Format is MM/DD/YYYY.

Table 4<sup>6</sup>Cline Center Historical Phoenix Event Data Source, Target and Role Codes<sup>7</sup>

Code	Source/Target	Code	Source/Target
ABW	Aruba	BLK	Balkans
ADB	Asian Development Bank	BLR	Belarus
AEU	Arab Economic Unity Council	BLZ	Belize
AFB	African Development Bank	BMU	Bermuda
AFG	Afghanistan	BOL	Bolivia
AFR	Africa	BRA	Brazil
AFU	African Union	BRB	Barbados
AGO	Angola	BRN	Brunei Darussalam
<b>AGR</b>	<b><i>Agriculture-focused actors</i></b>	BTN	Bhutan
AIA	Anguilla	BUD	Buddhism
AIE	International Energy Agency	<b>BUS</b>	<b><i>Business</i></b>
ALB	Albania	BWA	Botswana
ALQ	Al Qaeda	CAF	Central African Republic
AMN	Amnesty International	CAN	Canada
AMU	Arab Maghreb Union	CAS	Central Asia
AND	Andorra	CAU	Caucasus
ANT	Netherlands Antilles	CEM	Cmn Mrkt for Eastern and Southern Africa
APE	Org of Arab Petroleum Exporting Countries	CEU	Central Europe
ARB	Arab	CFR	Central Africa
ARE	United Arab Emirates	CHE	Switzerland
ARG	Argentina	CHL	Chile
ARL	Arab League	CHN	China
ARM	Armenia	CHR	Christianity
ASA	Asia	CIS	Commonwealth of Independent States
ASF	Abu Sayyaf	CIV	Cote d'Ivoire
ASM	American Samoa	CMR	Cameroon
ASN	Association of Southeast Asian Nations	CNY	Chechnya
ATG	Antigua and Barbuda	COD	Congo, Democratic Republic of
ATH	Atheist/Agnostic	COE	Council of Europe
AUS	Australia	COG	Congo, Republic of
AUT	Austria	COK	Cook Islands
AZE	Azerbaijan	COL	Columbia
BAH	Bahai	COM	Comoros
BCA	Bank of Central African States	CON	Confucianism
BDI	Burundi	<b>COP</b>	<b><i>Law enforcement agencies</i></b>
BEL	Belgium	CPC	Association of Coffee Producing States
BEN	Benin	CPV	Cape Verde
BFA	Burkina Faso	CRB	Caribbean
BGD	Bangladesh	CRI	Costa Rica
BGR	Bulgaria	<b>CRM</b>	<b><i>Criminal actors</i></b>

<sup>6</sup> Actor and Target codes listed are solely those appearing in the Cline Center Historical Phoenix Data.

<sup>7</sup> Items that can also be Role Codes are ***bolded*** and *italicized*.

Code	Source/Target	Code	Source/Target
BHR	Bahrain	CSK	Czechoslovakia
BHS	Bahamas	CSS	Community of Sahel-Saharan States
BIH	Bosnia and Herzegovina	CTH	Catholic
BIS	Bank for International Settlements	CUB	Cuba
<b>CVL</b>	<b>Civilian individuals/groups</b>	GMB	Gambia
CWN	Commonwealth of Nations	GNB	Guinea-Bissau
CYM	Cayman Islands	GNQ	Equatorial Guinea
CYP	Cyprus	<b>GOV</b>	<b>Government</b>
CZE	Czech Republic	GRC	Greece
DDR	East Germany	GRD	Grenada
DEU	Germany	GRL	Greenland
<b>DEV</b>	<b>Development-focused actors</b>	GTM	Guatemala
DJI	Djibouti	GUF	French Guiana
DMA	Dominica	GUM	Guam
DNK	Denmark	GUY	Guyana
DOM	Dominican Republic	GZA	Gaza Strip
DZA	Algeria	HCH	UN High Commission for Human Rights
EAC	East African Community	HCR	UN High Commission for Refugees
EAF	Eastern Africa	HIN	Hinduism
ECU	Ecuador	HKG	Hong Kong
<b>EDU</b>	<b>Education-focused actors</b>	<b>HLH</b>	<b>Health-focused actors</b>
EEC	European Union	HMS	Hamas
EEU	Eastern Europe	HND	Honduras
EFT	European Free Trade Association	<b>HRI</b>	<b>Human rights-focused actors</b>
EGY	Egypt	HRV	Croatia
EIN	East Indies	HTI	Haiti
<b>ELI</b>	<b>Elites, celebrities</b>	HUN	Hungary
<b>ENV</b>	<b>Environmental</b>	IAD	Intergovernmental Auth. on Development
ERI	Eritrea	IAE	International Atomic Energy Agency
ESP	Spain	ICC	International Criminal Court
EST	Estonia	ICG	International Crisis Group
ETH	Ethiopia	ICJ	International Court of Justice
EUR	Europe	ICO	International Cocoa Organization
FID	International Federation of Human Rights	IDB	Islamic Development Bank
FIN	Finland	IDN	Indonesia
FJI	Fiji	IGC	International Grains Council
FLK	Falkland Islands	IGO	Inter-Government Organizations
FRA	France	IHF	Internatl. Helsinki Fed for Human Rights
FRO	Faeroe Islands	ILO	International Labor Organization
FSM	Micronesia, Federated States of	IMF	International Monetary Fund
GAB	Gabon	IMG	International Militarized Group
GBR	United Kingdom	IMY	Isle of Man
GEO	Georgia	IND	India
GGY	Guernsey	INS	Insurgents
GHA	Ghana	IPU	Inter-Parliamentary Union
GIB	Gibraltar	IRC	International Red Cross

Code	Source/Target	Code	Source/Target
GIN	Guinea	IRL	Ireland
GLP	Guadeloupe	IRN	Iran
IRQ	Iraq	MDV	Maldives
ISI	ISIS/ISIL	MEA	Middle East
ISL	Iceland	<b>MED</b>	<b>Media-related actors/organizations</b>
ISR	Israel	MEX	Mexico
ITA	Italy	MHL	Marshall Islands
ITP	Interpol	<b>MIL</b>	<b>Military</b>
JAM	Jamaica	MKD	Macedonia
JAN	Jainism	MLI	Mali
JEW	Judaism	MLT	Malta
JMA	Jemaah Islamiya	MMR	Myanmar
JOR	Jordan	MNC	Multinational Corporation
JPN	Japan	MNE	Montenegro
<b>JUD</b>	<b>Judicial actors</b>	MNG	Mongolia
JUR	International Commission of Jurists	<b>MOD</b>	<b>Moderate/mainstream group</b>
KAS	Kashmir	MOS	Islam
KAZ	Kazakhstan	MOZ	Mozambique
KEN	Kenya	MRT	Mauritania
KGZ	Kyrgyzstan	MSF	Doctors Without Borders
KHM	Cambodia	MSR	Montserrat
KID	United Nations Children's Fund	MTQ	Martinique
KIR	Kiribati	MUS	Mauritius
KNA	Saint Kitts and Nevis	MWI	Malawi
KOR	Korea, Republic of	MYS	Malaysia
KSV	Kosovo	NAF	North Africa
KWT	Kuwait	NAM	Namibia
<b>LAB</b>	<b>Labor-focused actors</b>	NAT	North Atlantic Treaty Organization
LAM	Latin America	NCL	New Caledonia
LAO	Laos	NER	Niger
LBN	Lebanon	NGA	Nigeria
LBR	Liberia	NGO	Non-Governmental Organization
LBY	Libya	NIC	Nicaragua
LCA	Saint Lucia	NIU	Niue Island
<b>LEG</b>	<b>Legislative bodies/actors</b>	NLD	Netherlands
LIE	Liechtenstein	NMR	North America
LKA	Sri Lanka	NOR	Norway
LSO	Lesotho	NPL	Nepal
LTU	Lithuania	NRU	Nauru
LUX	Luxembourg	NZL	New Zealand
LVA	Latvia	OAS	Organization of American States
MAR	Morocco	OAU	Organization of African Unity
MCO	Monaco	OCC	Occupied
MDA	Moldova	OIC	International Cocoa Organization
MDG	Madagascar	OMN	Oman
MDT	Mediterranean	OPC	Org. of Petroleum Exporting Countries

Code	Source/Target	Code	Source/Target
<b>OPP</b>	<b><i>Opposition groups (often parliamentary)</i></b>	SLV	El Salvador
PAK	Pakistan	SMR	San Marino
PAL	Palestinian	SOM	Somalia
PAN	Panama	SOT	Southeast Asia Collective Defense Treaty
PCN	Pitcairn	<b>SPY</b>	<b><i>Intelligence agencies</i></b>
PER	Peru	SRB	Serbia
PGS	Persian Gulf	SRP	Republica Srpska
PHL	Philippines	SSD	South Sudan
PLW	Palau	STP	Sao Tome and Principe
PNG	Papua New Guinea	SUN	Soviet Union
POL	Poland	SUR	Suriname
PPL	Papel	SVK	Slovakia
PRI	Puerto Rico	SVN	Slovenia
PRK	Korea, Democratic People's Republic of	SWE	Sweden
PRO	Protestant	SWZ	Swaziland
PRT	Portugal	SYC	Seychelles
PRY	Paraguay	SYR	Syria
PSE	Palestine	TAM	Tamil
<b>PTY</b>	<b><i>Political party</i></b>	TAO	Taoism
PYF	French Polynesia	TCD	Chad
QAT	Qatar	TGO	Togo
<b>RAD</b>	<b><i>Radical/extremist/fundamentalist</i></b>	THA	Thailand
<b>REB</b>	<b><i>Rebel / insurgents</i></b>	TJK	Tajikistan
<b>REF</b>	<b><i>Refugee-focused actors</i></b>	TKL	Tokelau
REL	Unspecified religious	TKM	Turkmenistan
ROU	Romania	TMP	East Timor
RUS	Russia	TON	Tonga
RWA	Rwanda	TTO	Trinidad and Tobago
SAA	South Asian Association	TUN	Tunisia
SAD	Southern African Development Community	TUR	Turkey
SAF	Southern Africa	TUV	Tuvalu
SAM	South America	TWN	Taiwan
SAS	South Asia	TZA	Tanzania
SAU	Saudi Arabia	<b>UAF</b>	<b><i>Unaffiliated armed forces</i></b>
SCN	Scandinavia	UGA	Uganda
SDN	Sudan	UIG	Uighur
SEA	Southeast Asia	UKR	Ukraine
SEN	Senegal	UNO	United Nations
SGP	Singapore	UNR	Unrecognized
SHI	Shia	URY	Uruguay
SHN	Shintoism	USA	United States
SIK	Sikhism	UZB	Uzbekistan
SLB	Solomon Islands	VCT	Saint Vincent and the Grenadines
SLE	Sierra Leone	VEN	Venezuela

<b>Code</b>	<b>Source/Target</b>	<b>Code</b>	<b>Source/Target</b>
VGB	British Virgin Islands	WHO	World Health Organization
VIR	U.S. Virgin Islands	WLF	Wallis and Futuna Islands
VNM	Viet Nam	WSM	Samoa
VUT	Vanuatu	WST	"the West"
WAD	West African Development Bank	XFM	Oxfam
WAF	West Africa	YEM	Yemen
WAS	Econ Community of West African States	YUG	Yugoslavia
WBK	World Bank	ZAF	South Africa
WCT	International War Crimes Tribunals	ZMB	Zambia
WEF	World Economic Forum	ZWE	Zimbabwe
WFP	World Food Program		

**Table 5**  
**Cline Center Historical Phoenix Event Data Role Codes**

**a. Primary Role Codes**

<b>Code</b>	<b>Actor/Target</b>
GOV	Government
SPY	Intelligence agencies
OPP	Opposition groups (often parliamentary)
MIL	Military
PTY	Political party
REB	Rebels/insurgents
EDU	Education-focused actors
COP	Law enforcement agencies
JUD	Judicial actors
CRM	Criminal actors
BUS	Business (NOT MNCs)
MED	Media-related actors/organizations
CVL	Civilians

**b. Secondary Role Codes**

<b>Code</b>	<b>Actor/Target</b>
UAF	Unaffiliated armed forces
AGR	Agriculture-focused actors
ELI	Elites, celebrities
DEV	Development-focused actors
ENV	Environment-focused actors
HLH	Health-focused actors
HRI	Human rights-focused actors
LAB	Labor-focused actors
LEG	Legislative bodies/actors
REF	Refugee-focused actors
MOD	Moderate/mainstream group
RAD	Radical/extremist/fundamentalist

**Table 6**  
**CAMEO Event Codes and Event Root Codes<sup>8</sup>**

<b>01</b>	<b>Make public statement</b>
010	Make statement, not specified below
011	Decline comment
012	Make pessimistic comment
013	Make optimistic comment
014	Consider policy option
015	Acknowledge or claim responsibility
016	Deny responsibility
017	Engage in symbolic act
018	Make empathetic comment
019	Express accord
<b>02</b>	<b>Appeal</b>
020	Make an appeal or request, not specified below
021	Appeal for material cooperation, not specified below
0211	Appeal for economic cooperation
0212	Appeal for military cooperation
0213	Appeal for judicial cooperation
0214	Appeal for intelligence
022	Appeal for diplomatic cooperation (such as policy support)
023	Appeal for aid, not specified below
0231	Appeal for economic aid
0232	Appeal for military aid
0233	Appeal for humanitarian aid
0234	Appeal for military protection or peacekeeping
024	Appeal for political reform, not specified below
0241	Appeal for change in leadership
0242	Appeal for policy change
0243	Appeal for rights
0244	Appeal for change in institutions, regime
025	Appeal to yield, not specified below
0251	Appeal for easing of administrative sanctions
0252	Appeal for easing of political dissent
0253	Appeal for release of persons or property
0254	Appeal for easing of economic sanctions, boycott, or embargo
0255	Appeal for target to allow international involvement (non-mediation)

<sup>8</sup> The CAMEO Codes and Root Codes are from Schrodtt and Yilmaz (2007). Event root codes are in **bold**.



- 0256 Appeal for de-escalation of military engagement
- 026 Appeal to others to meet or negotiate
- 027 Appeal to others to settle dispute
- 028 Appeal to engage in or accept mediation
  
- 03 Express intent to cooperate**
  - 030 Express intent to cooperate, not specified below
  - 031 Express intent to engage in material cooperation, not specified below
    - 0311 Express intent to cooperate economically
    - 0312 Express intent to cooperate militarily
    - 0313 Express intent to cooperate on judicial matters
    - 0314 Express intent to cooperate on intelligence
  - 032 Express intent to engage in diplomatic cooperation (such as policy support)
  - 033 Express intent to provide material aid, not specified below
    - 0331 Express intent to provide economic aid
    - 0332 Express intent to provide military aid
    - 0333 Express intent to provide humanitarian aid
    - 0334 Express intent to provide military protection or peacekeeping
  - 034 Express intent to institute political reform, not specified below
    - 0341 Express intent to change leadership
    - 0342 Express intent to change policy
    - 0343 Express intent to provide rights
    - 0344 Express intent to change institutions, regime
  - 035 Express intent to yield, not specified below
    - 0351 Express intent to ease administrative sanctions
    - 0352 Express intent to ease popular dissent
    - 0353 Express intent to release persons or property
    - 0354 Express intent to ease economic sanctions, boycott, or embargo
    - 0355 Express intent to allow international involvement (non-mediation)
    - 0356 Express intent to de-escalate military engagement
  - 036 Express intent to meet or negotiate
  - 037 Express intent to settle dispute
  - 038 Express intent to accept mediation
  - 039 Express intent to mediate
  
- 04 Consult**
  - 040 Consult, not specified below
  - 041 Discuss by telephone
  - 042 Make a visit
  - 043 Host a visit
  - 044 Meet at a "third" location

- 045 Mediate
- 046 Engage in negotiation
  
- 05 Engage in diplomatic cooperation**
  - 050 Engage in diplomatic cooperation, not specified below
  - 051 Praise or endorse
  - 052 Defend verbally
  - 053 Rally support on behalf of
  - 054 Grant diplomatic recognition
  - 055 Apologize
  - 056 Forgive
  - 057 Sign formal agreement
  
- 06 Engage in material cooperation**
  - 060 Engage in material cooperation, not specified below
  - 061 Cooperate economically
  - 062 Cooperate militarily
  - 063 Engage in judicial cooperation
  - 064 Share intelligence or information
  
- 07 Provide aid**
  - 070 Provide aid, not specified below
  - 071 Provide economic aid
  - 072 Provide military aid
  - 073 Provide humanitarian aid
  - 074 Provide military protection or peacekeeping
  - 075 Grant asylum
  
- 08 Yield**
  - 080 Yield, not specified below
  - 081 Ease administrative sanctions, not specified below
    - 0811 Ease restrictions on political freedoms
    - 0812 Ease ban on political parties or politicians
    - 0813 Ease curfew
    - 0814 Ease state of emergency or martial law
  - 082 Ease political dissent
  - 083 Accede to requests or demands for political reform, not specified below
    - 0831 Accede to demands for change in leadership
    - 0832 Accede to demands for change in policy
    - 0833 Accede to demands for rights
    - 0834 Accede to demands for change in institutions, regime

- 084 Return, release, not specified below
  - 0841 Return, release person(s)
  - 0842 Return, release property
- 085 Ease economic sanctions, boycott, embargo
- 086 Allow international involvement, not specified below
  - 0861 Receive deployment of peacekeepers
  - 0862 Receive inspectors
  - 0863 Allow humanitarian access
- 087 De-escalate military engagement
  - 0871 Declare truce, ceasefire
  - 0872 Ease military blockade
  - 0873 Demobilize armed forces
  - 0874 Retreat or surrender militarily
- 09 Investigate**
  - 090 Investigate, not specified below
  - 091 Investigate crime, corruption
  - 092 Investigate human rights abuses
  - 093 Investigate military action
  - 094 Investigate war crimes
- 10 Demand**
  - 100 Demand, not specified below
  - 101 Demand material cooperation, not specified below
    - 1011 Demand economic cooperation
    - 1012 Demand military cooperation
    - 1013 Demand judicial cooperation
    - 1014 Demand intelligence cooperation
  - 102 Demand diplomatic cooperation (such as policy support)
  - 103 Demand material aid, not specified below
    - 1031 Demand economic aid
    - 1032 Demand military aid
    - 1033 Demand humanitarian aid
    - 1034 Demand military protection or peacekeeping
  - 104 Demand political reform, not specified below
    - 1041 Demand change in leadership
    - 1042 Demand policy change
    - 1043 Demand rights
    - 1044 Demand change in institutions, regime
  - 105 Demand that target yields, not specified below
    - 1051 Demand easing of administrative sanctions

- 1052 Demand easing of political dissent
- 1053 Demand release of persons or property
- 1054 Demand easing of economic sanctions, boycott, or embargo
- 1055 Demand that target allows international involvement (non-mediation)
- 1056 Demand de-escalation of military engagement
- 106 Demand meeting, negotiation
- 107 Demand settling of dispute
- 108 Demand mediation
- 11 Disapprove**
  - 110 Disapprove, not specified below
  - 111 Criticize or denounce
  - 112 Accuse, not specified below
    - 1121 Accuse of crime, corruption
    - 1122 Accuse of human rights abuses
    - 1123 Accuse of aggression
    - 1124 Accuse of war crimes
    - 1125 Accuse of espionage, treason
  - 113 Rally opposition against
  - 114 Complain officially
  - 115 Bring lawsuit against
  - 116 Find guilty or liable (legally)
- 12 Reject**
  - 120 Reject, not specified below
  - 121 Reject material cooperation
    - 1211 Reject economic cooperation
    - 1212 Reject military cooperation
  - 122 Reject request or demand for material aid, not specified below
    - 1221 Reject request for economic aid
    - 1222 Reject request for military aid
    - 1223 Reject request for humanitarian aid
    - 1224 Reject request for military protection or peacekeeping
  - 123 Reject request or demand for political reform, not specified below
    - 1231 Reject request for change in leadership
    - 1232 Reject request for policy change
    - 1233 Reject request for rights
    - 1234 Reject request for change in institutions, regime
  - 124 Refuse to yield, not specified below
    - 1241 Refuse to ease administrative sanctions
    - 1242 Refuse to ease popular dissent

- 1243 Refuse to release persons or property
- 1244 Refuse to ease economic sanctions, boycott, or embargo
- 1245 Refuse to allow international involvement (non- mediation)
- 1246 Refuse to de-escalate military engagement
- 125 Reject proposal to meet, discuss, or negotiate
- 126 Reject mediation
- 127 Reject plan, agreement to settle dispute
- 128 Defy norms, law
- 129 Veto

### **13 Threaten**

- 130 Threaten, not specified below
- 131 Threaten non-force, not specified below
  - 1311 Threaten to reduce or stop aid
  - 1312 Threaten with sanctions, boycott, embargo
  - 1313 Threaten to reduce or break relations
- 132 Threaten with administrative sanctions, not specified below
  - 1321 Threaten with restrictions on political freedoms
  - 1322 Threaten to ban political parties or politicians
  - 1323 Threaten to impose curfew
  - 1324 Threaten to impose state of emergency or martial law
- 133 Threaten with political dissent, protest
- 134 Threaten to halt negotiations
- 135 Threaten to halt mediation
- 136 Threaten to halt international involvement (non-mediation)
- 137 Threaten with repression
- 138 Threaten with military force, not specified below
  - 1381 Threaten blockade
  - 1382 Threaten occupation
  - 1383 Threaten unconventional violence
  - 1384 Threaten conventional attack
  - 1385 Threaten attack with WMD
- 139 Give ultimatum

### **14 Protest**

- 140 Engage in political dissent, not specified below
- 141 Demonstrate or rally, not specified below
  - 1411 Demonstrate for leadership change
  - 1412 Demonstrate for policy change
  - 1413 Demonstrate for rights
  - 1414 Demonstrate for change in institutions, regime

- 142 Conduct hunger strike, not specified below
  - 1421 Conduct hunger strike for leadership change
  - 1422 Conduct hunger strike for policy change
  - 1423 Conduct hunger strike for rights
  - 1424 Conduct hunger strike for change in institutions, regime
- 143 Conduct strike or boycott, not specified below
  - 1431 Conduct strike or boycott for leadership change
  - 1432 Conduct strike or boycott for policy change
  - 1433 Conduct strike or boycott for rights
  - 1434 Conduct strike or boycott for change in institutions, regime
- 144 Obstruct passage, block, not specified below
  - 1441 Obstruct passage to demand leadership change
  - 1442 Obstruct passage to demand policy change
  - 1443 Obstruct passage to demand rights
  - 1444 Obstruct passage to demand change in institutions, regime
- 145 Protest violently, riot, not specified below
  - 1451 Engage in violent protest for leadership change
  - 1452 Engage in violent protest for policy change
  - 1453 Engage in violent protest for rights
  - 1454 Engage in violent protest for change in institutions, regime

## **15 Exhibit force posture**

- 150 Demonstrate military or police power, not specified below
- 151 Increase police alert status
- 152 Increase military alert status
- 153 Mobilize or increase police power
- 154 Mobilize or increase armed forces

## **16 Reduce relations**

- 160 Reduce relations, not specified below
- 161 Reduce or break diplomatic relations
- 162 Reduce or stop material aid, not specified below
  - 1621 Reduce or stop economic assistance
  - 1622 Reduce or stop military assistance
  - 1623 Reduce or stop humanitarian assistance
- 163 Impose embargo, boycott, or sanctions
- 164 Halt negotiations
- 165 Halt mediation
- 166 Expel or withdraw, not specified below
  - 1661 Expel or withdraw peacekeepers
  - 1662 Expel or withdraw inspectors, observers

1663 Expel or withdraw aid agencies

**17 Coerce**

- 170 Coerce, not specified below
- 171 Seize or damage property, not specified below
- 1711 Confiscate property
- 1712 Destroy property
- 172 Impose administrative sanctions, not specified below
  - 1721 Impose restrictions on political freedoms
  - 1722 Ban political parties or politicians
  - 1723 Impose curfew
  - 1724 Impose state of emergency or martial law
- 173 Arrest, detain, or charge with legal action
- 174 Expel or deport individuals
- 175 Use tactics of violent repression

**18 Assault**

- 180 Use unconventional violence, not specified below
- 181 Abduct, hijack, or take hostage
- 182 Physically assault, not specified below
  - 1821 Sexually assault
  - 1822 Torture
  - 1823 Kill by physical assault
- 183 Conduct suicide, car, or other non-military bombing, not specified below
- 1831 Carry out suicide bombing
  - 1832 Carry out car bombing
  - 1833 Carry out roadside bombing
- 184 Use as human shield
- 185 Attempt to assassinate
- 186 Assassinate

**19 Fight**

- 190 Use conventional military force, not specified below
- 191 Impose blockade, restrict movement
- 192 Occupy territory
- 193 Fight with small arms and light weapons
- 194 Fight with artillery and tanks
- 195 Employ aerial weapons
- 196 Violate ceasefire

- 20      Use unconventional mass violence**
- 200      Use unconventional mass violence, not specified below
- 201      Engage in mass expulsion
- 202      Engage in mass killings
- 203      Engage in ethnic cleansing
- 204      Use weapons of mass destruction, not specified below
  - 2041      Use chemical, biological, or radiological weapons
  - 2042      Detonate nuclear weapons



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### Codebook Versioning Information

1. The June 30, 2017 version of this codebook cited Fisher (2016) as the developer of the quad-class values (also known as “penta-class” values). This was incorrect. The text was re-worded on July 11, 2017 to indicate that the descriptions mirror those in Fisher (2016) and add a citation to Beieler (2016b, 38) where the logic of the classes is described, as well as Beieler (2016a, 28-29) which contains a more detailed explanation and table.

## Appendix A

### PETRARCH-2 Versioning Information

These data were produced using the Cline Center's version of the PETRARCH-2 pipeline. Components and versioning of the system are described below.

#### Pipeline Version 1.0.1

**Python\_interface** (created by John Carter, 10-19-2016)

**Backend (scripts folder and top Python and bash scripts)** (created by John Carter, 10-19-2016)

**Cliff Geo-parser**

GitHub branch as of 10-19-2016: [https://github.com/openeventdata/cliff\\_container](https://github.com/openeventdata/cliff_container)

**Phoenix\_pipeline**

GitHub branch as of 10-19-2016: [https://github.com/openeventdata/phoenix\\_pipeline](https://github.com/openeventdata/phoenix_pipeline)  
 Edited postprocess.main() to include further data and headers for output as well as  
 postprocess.create\_strings() to include extra data from what is normally output  
 Edited line 111+ in pipeline.main() to take out PETR directly writing to file  
 Edited liens 52+ to change log file location  
 Edited src/PETRARCH2-master/PETRARCH2/PETRARCH2.py with a try –  
 except statement at line 208 to catch processing errors

**stanford\_corenlp\_pywrapper**

GitHub branch as of 10-19-2016:

[https://github.com/johnb30/stanford\\_corenlp\\_pywrapper](https://github.com/johnb30/stanford_corenlp_pywrapper)

**stanford\_pipeline**

GitHub branch as of 10-19-2016: [https://github.com/johnb30/stanford\\_pipeline](https://github.com/johnb30/stanford_pipeline)

## Pipeline Version 1.0.0

**Python\_interface** (created by John Carter, 10-01-2016)

**Backend (scripts folder and top Python and bash scripts)** (created by John Carter, 10-01-2016)

**Cliff Geo-parser**

GitHub branch as of 10-01-2016: [https://github.com/openeventdata/cliff\\_container](https://github.com/openeventdata/cliff_container)

**Phoenix\_pipeline**

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GitHub branch as of 10-01-2016: [https://github.com/johnb30/stanford\\_pipeline](https://github.com/johnb30/stanford_pipeline)