
INTRODUCING ICBe: SUPPLEMENTARY INFORMATION

A PREPRINT

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Abstract

This is the online appendix to the article “Introducing ICBe: Very High Recall and Precision Event Extraction from Narratives about International Crises”. In the article, we conceptualize of international relations as a strategic chess game between adversaries and develop a systematic way to measure pieces, moves, and gambits accurately and consistently over a hundred years of history. We introduce a new ontology and dataset of international events called ICBe based on a very high-quality corpus of narratives from the International Crisis Behavior (ICB) Project. We demonstrate that ICBe has higher coverage, recall, and precision than existing state of the art datasets and conduct two detailed case studies of the Cuban Missile Crisis (1962) and Crimea-Donbas Crisis (2014). We further introduce two new event visualizations (event iconography and crisis maps), an automated benchmark for measuring event recall using natural language processing (synthetic narratives), and an ontology reconstruction task for objectively measuring event precision. We make the data, online appendix, replication material, and visualizations of every historical episode available at a companion website www.crisisevents.org and the github repository.

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1 Appendix A Corpus and Cases

1.1 Table A1: ICBe Crises and Summary Information

Figure 1: ICBe Crises Summary Statistics

Crisis #	Title	Years		Counts		Coders	Actors	Units/Domains	Forces/Fatalities
		Start	End	Sent.	Events				
1	Russian Civil War I	1918	1920	12	7	3	3	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Russia; United Kingdom; Canada; France; Japan; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire	100s; 1ks
2	Costa Rican Coup	1918	1919	20	24	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; United Kingdom; Canada; France; Japan; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire	100s; 1ks
3	Russian Civil War II	1918	1919	9	8	2	3	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
4	Baltic Independence	1918	1920	33	45	2	3	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War; Central Powers	100s; 1ks
5	Teschen	1919	1920	22	35	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
6	Hungarian War	1919	1919	27	41	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
7	Smyrna	1919	1919	22	39	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
8	Third Afghan War	1919	1919	22	36	3	4	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Central Powers	100s; 1ks
9	Finnish-Russian Border	1919	1920	17	23	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Central Powers	100s; 1ks
10	Bessarabia	1919	1920	24	45	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Central Powers	100s; 1ks
11	Cilician War	1919	1921	18	21	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Central Powers	100s; 1ks
12	Rhenish Rebellions	1920	1920	24	30	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Central Powers	100s; 1ks
13	Polish-Russian War	1920	1920	22	31	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
14	Persian Border	1920	1921	25	42	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
15	Aaland Islands	1920	1921	26	29	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
16	Greece-Turkey War I	1920	1920	29	12	3	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
17	Vilna I	1920	1920	21	30	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
18	Greece-Turkey War II	1921	1921	25	24	2	3	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
19	Costa Rica-Panama Border	1921	1921	18	19	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
20	German Reparations	1921	1921	21	32	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Ottoman Empire; Allies of the First World War	100s; 1ks
21	Karl's Return To Hungary	1921	1921	37	45	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; House of Lorraine	100s; 1ks
22	Austrian Separatists	1921	1921	20	24	2	3	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
23	Albanian Frontier	1921	1921	17	27	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
24	Burgenland Dispute	1921	1921	14	12	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
25	Greece-Turkey War III	1922	1922	16	13	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
26	Chanak	1922	1922	21	15	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
27	Ruhr I	1923	1923	21	22	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
28	Corfu Incident	1923	1923	21	22	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
29	Hijaz-Najd War	1924	1925	27	23	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
30	Ruhr II	1924	1924	17	20	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
31	Mosul Land Dispute	1924	1924	30	48	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Mosul Vilayet	100s; 1ks
32	Bulgaria-Greek Frontier	1925	1925	22	32	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Komitadjis	100s; 1ks
33	Nicaragua Civil War I	1926	1927	26	36	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Komitadjis	100s; 1ks
34	Hegemony Over Albania	1926	1927	19	33	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Komitadjis	100s; 1ks
35	Shantung	1927	1929	35	55	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Komitadjis	100s; 1ks
36	Vilna II	1927	1927	24	32	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
37	Chaco I	1928	1929	24	27	2	4	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
38	Chinese Eastern Railway	1929	1929	31	32	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
39	Mukden Incident	1931	1932	23	27	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
40	Shanghai	1932	1932	25	31	3	4	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
41	Chaco II	1932	1935	35	35	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Colombia; Cuba; Mexico; United States; Uruguay	100s; 1ks
42	Leticia	1932	1933	28	30	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
43	Jehol Campaign	1933	1933	19	33	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
44	Saudi-Yemen War	1933	1934	20	18	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
45	Austria Putsch	1934	1934	42	27	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
46	Assassination Of King Alexander	1934	1934	26	23	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
47	Ethiopian War	1934	1936	68	86	2	4	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
48	Bulgaria-Turkey	1935	1935	22	30	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
49	Kaunas Trials	1935	1935	17	16	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
50	Ecuador-Peru Border I	1935	1935	10	9	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
51	Remilitarization Of The Rhineland	1936	1936	40	39	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Belgium; France; Germany; Italy; United Kingdom	100s; 1ks
52	Spanish Civil War I	1936	1937	47	33	1	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War; Nationalist faction; Republican faction (Spanish Civil War)	100s; 1ks
53	Alexandretta	1936	1939	38	36	1	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
54	Spanish Civil War II	1937	1937	22	13	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
55	Amur River Incident	1937	1937	16	17	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
56	Marco Polo Bridge	1937	1938	25	28	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
57	Postage Stamp Crisis	1937	1937	10	13	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
58	Dominican Republic-Haiti I	1937	1938	19	26	2	0	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
59	Panay Incident	1937	1937	21	24	2	2	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks
60	Anschluss	1938	1938	22	33	2	1	United Kingdom; Canada; France; Japan; Russia; United States; Mexico; Italy; Germany; Austria-Hungary; Allies of the First World War	100s; 1ks

Crisis	Years	Counts				Coders	Units/Domains	Forces/Fatalities	
#	Title	Start	End	Sent.	Events	Exp.	Nov.	Actors	
61	Polish Ultimatum	1938	1938	29	31	2	2		
62	Czechoslovakia May Crisis	1938	1938	15	17	2	1		
63	Changkufeng	1938	1938	19	16	2	1		
64	Munich	1938	1938	43	69	2	3		
65	Spanish Civil War Iii	1938	1938	30	23	2	1	Nationalist faction; Republican faction (Spanish Civil War)	
66	Italy Threat-France	1938	1939	25	19	2	0		
67	Spanish Civil War Iv	1938	1939	28	30	2	0	Nationalist faction; Republican faction (Spanish Civil War)	
68	Czechoslovakia's Annexation	1939	1939	25	32	2	3		
69	Memel	1939	1939	26	25	2	0		
70	Danzig	1939	1939	29	49	2	1		
71	Invasion Of Albania	1939	1939	31	46	2	1	Eastern Europe	
72	Nomonhan	1939	1939	19	25	2	0		
73	Tientsin	1939	1939	27	28	2	1		
74	Entry Into Wwii	1939	1939	114	128	2	2	Axis	
75	Soviet Occupation Of The Baltic	1939	1939	28	34	2	3		
76	Finnish War	1939	1940	43	59	2	0		
77	Invasion Of Scandinavia	1940	1940	29	34	2	0	anglo-french	
78	Fall Of Western Europe	1940	1940	25	31	2	0		
79	Closure Of Burma Road	1940	1940	19	24	2	0		
80	Romanian Territory	1940	1940	39	66	2	0		
81	Battle Of Britain	1940	1940	25	24	2	2		
82	East Africa Campaign	1940	1941	30	35	2	2		
83	Balkan Invasion	1940	1941	56	74	2	1		
84	Mid-East Campaign	1941	1941	30	46	2	4		
85	Barbarossa	1941	1941	23	21	2	0	Axis	
86	Ecuador-Peru Border II	1941	1942	28	33	2	0		
87	Occupation Of Iran	1941	1942	15	26	3	1		
88	Pearl Harbor	1941	1942	55	58	2	0		
89	Stalingrad	1942	1943	21	21	2	1		
90	El Alamein	1942	1943	21	26	2	1	Axis	
91	Fall Of Italy	1943	1943	18	25	2	2	anglo-american	
92	German Occupation Of Hungary	1944	1944	11	16	2	2		
93	Soviet Occupation Of East Europe	1944	1945	31	48	2	1		
94	D-Day	1944	1945	26	33	2	2		
95	Fall Of Saipan	1944	1944	23	11	2	1		
96	Iran-Oil Concessions	1944	1944	18	21	2	0	Tudeh Party of Iran	
97	Leyte Campaign	1944	1944	15	12	2	4		
98	Greek Civil War I	1944	1945	16	24	2	0		
99	Luzon	1945	1945	11	8	2	2		
100	Final Soviet Offensive	1945	1945	19	13	2	1		
101	Iwo Jima	1945	1945	19	13	2	1		
102	Communism In Romania	1945	1945	20	17	2	0		
103	Okinawa	1945	1945	17	13	2	2		
104	Trieste I	1945	1945	35	49	2	2	triple entente; western allies	
105	French Forces-Syria	1945	1945	25	21	2	2		
106	Kars-Ardahan	1945	1946	23	18	3	1		
107	Hiroshima-Nagasaki	1945	1945	33	28	2	4		
108	Azerbaijan	1945	1946	34	68	2	0	Azerbaijani Democratic Party; Tudeh Party of Iran	
109	Indonesia Independence I	1945	1947	21	32	2	0	Peasant Party	
110	Communism In Poland	1946	1947	12	14	2	1		
111	Turkish Straits	1946	1946	15	25	4	2		
112	Greek Civil War II	1946	1947	13	15	3	2		
113	Communism In Hungary	1947	1947	20	20	2	1		
114	Truman Doctrine	1947	1947	18	15	3	2		
115	Marshall Plan	1947	1947	32	21	3	2	anglo-french	
116	Indonesia Independence II	1947	1948	17	35	2	3		
117	Cuba-Dominican Republic	1947	1947	15	15	3	1	Caribbean Legitimacy; international community	
118	Junagadh	1947	1948	13	12	3	4		
119	Kashmir I	1947	1949	38	35	3	3	Arab states	
120	Palestine Partition/Israel Independence	1947	1949	30	43	2	1		

Crisis #	Title	Years Start	Years End	Counts Sent	Counts Events	Coders Exp.	Nov. Actors	Units/Domains	Forces/Fatalities
121	Communism In Czechoslovakia	1948	1948	29	15	3	3		1s
122	Soviet Note To Finland I	1948	1948	12	8	3	0		nordic states
123	Berlin Blockade	1948	1949	25	38	3	1		
124	Hyderabad	1948	1948	22	23	3	2		
125	China Civil War	1948	1949	15	22	2	0		
126	Costa Rica-Nicaragua I	1948	1949	18	21	2	0		
127	Indonesia Independence III	1948	1949	16	26	3	2		
128	Sinai Incursion	1948	1949	13	22	2	1		
129	Pushtunistan I	1949	1950	16	14	2	2		
130	Luperon	1949	1949	8	9	2	0		
131	Soviet Bloc-Yugoslavia	1949	1951	13	18	2	2		
132	Korean War I	1950	1950	27	40	2	1		Member states of the United Nations
133	Korean War II	1950	1951	27	54	2	1		
134	Hula Drainage	1951	1951	27	40	2	1		israel/syria
135	Punjab War Scare I	1951	1951	21	14	3	0		
136	Suez Canal	1951	1952	16	29	3	2		
137	Catalina Affair	1952	1952	13	10	2	1		
138	Burma Infiltration	1953	1954	28	42	2	3		
139	Invasion Of Laos I	1953	1953	13	18	2	1		
140	Korean War III	1953	1953	21	29	2	2		
141	East German Uprising	1953	1953	14	15	2	2		
142	Trieste II	1953	1953	14	17	2	2		
143	Qibya	1953	1953	13	10	3	0		
144	Guatemala	1953	1954	20	22	3	0		Guatemalan National Revolutionary Unity
145	Dien Bien Phu	1954	1954	42	38	3	2		
146	Taiwan Strait I	1954	1955	24	38	2	2		
147	Costa Rica-Nicaragua II	1955	1955	18	27	2	1		
148	Baghdad Pact	1955	1955	18	36	2	3		international community:Western world
149	Gaza Raid-Czechoslovakia Arms	1955	1956	21	28	3	1		
150	Pushtunistan II	1955	1955	24	20	2	2		
151	Goa I	1955	1955	18	26	2	1		
152	Suez Nationalization-War	1956	1957	33	54	3	0		
153	Qalqilya	1956	1956	17	23	3	3		
154	Poland Liberalization	1956	1956	21	19	3	0		
155	Hungarian Uprising	1956	1957	18	19	2	1		
156	Mocoron Incident	1957	1957	14	16	2	0		
157	Jordan Regime	1957	1957	16	14	2	3		
158	France-Tunisia	1957	1958	24	27	2	2		
159	Syria-Turkey Confrontation	1957	1957	24	45	4	1		
160	Ifni	1957	1958	14	14	2	1		
161	West Iran I	1957	1957	17	23	2	0		
162	Formation Of Uar	1958	1958	17	15	2	2		
163	Egypt-Sudan Border I	1958	1958	13	11	1	2		
164	Abortive Coup-Indonesia	1958	1958	27	22	2	1		
165	Iraq-Lebanon Upheaval	1958	1958	32	37	3	1		
166	Taiwan Strait II	1958	1958	19	23	2	1		
167	Cambodia-Thailand	1958	1959	16	24	2	2		
168	Berlin Deadline	1958	1959	41	52	3	2		
169	Mexico-Guatemala Fishing Rights	1958	1959	10	7	1	3		
170	Central America-Cuba I	1959	1959	31	26	1	2		
171	China-India Border I	1959	1960	19	13	1	1		
172	Shatt-Al-Arab I	1959	1960	11	15	2	3		
173	Rottem	1960	1960	14	20	3	0		
174	Ghana-Togo Border I	1960	1960	15	22	3	3		
175	Failed Assassination-Venezuela	1960	1960	23	41	2	0		
176	Congo I-Katanga	1960	1962	29	60	2	0		
177	Mali Federation	1960	1960	17	24	2	1		
178	Central America-Cuba II	1960	1960	16	29	2	2		:Revolutionary Movement 13th November
179	Ethiopia-Somalia	1960	1961	15	16	2	3		All-African People's Conferences;Monrovia Group
180	Pathet Lao Offensive	1961	1961	24	44	2	1		International Control Commission

Crisis #	Title	Years Start	Years End	Counts Sent	Events Exp.	Nov. Actors	Coders	Units/Domains	Forces/Fatalities
181	Bay Of Pigs	1961	1961	17	38	3	1	1	10s
182	Pushtunistan II	1961	1962	15	16	2	3	1	1ks
183	Kuwait Independence	1961	1961	18	18	2	1	1	1ks
184	Bizerta	1961	1961	14	13	2	1	1	Arab states
185	Berlin Wall	1961	1961	32	44	3	1	1	100ks; 1ks
186	Vietcong Attack	1961	1961	20	13	3	2	1	10s
187	West Iran II	1961	1962	16	20	2	2	1	10s
188	Breakup Of Uar	1961	1961	13	16	2	0	1	10s
189	Soviet Note To Finland II	1961	1961	10	9	2	1	1	10s
190	Goa II	1961	1961	21	27	2	2	1	10s; 10s
191	Mali-Mauritania	1962	1963	14	13	2	2	1	10s
192	Taiwan Strait III	1962	1962	24	19	2	3	1	10s
193	Nam Tha	1962	1962	23	37	2	1	1	100ks; 100s; 1ks
194	China-India Border II	1962	1963	26	44	2	2	1	1ks
195	Yemen War I	1962	1963	18	44	2	3	1	1ks
196	Cuban Missiles	1962	1962	37	49	3	111	1	100s; 10ks; 1ks; 1s
197	Malaysia Federation	1963	1965	23	52	2	5	1	British Borneo
198	Dominican Republic-Haiti II	1963	1963	23	33	2	3	1	10ks
199	Algeria-Morocco Border	1963	1963	16	24	2	2	1	Socialist Forces Front
200	Cuba-Venezuela	1963	1963	13	14	3	2	1	100s
201	Kenya-Somalia	1963	1964	23	22	3	0	1	10s; 10ks; 1s
202	Cyprus I	1963	1964	57	89	2	0	1	10s; 1s
203	Jordan Waters	1963	1964	13	16	3	2	1	Soviet Union; United States of America
204	Dahomey-Niger	1963	1964	14	21	3	1	1	10s; 1s; 1s
205	Burundi-Rwanda	1963	1964	21	26	2	2	1	Hutu; Tutsi
206	Panama Flag	1964	1964	20	19	2	2	1	10s
207	East Africa Rebellions	1964	1964	19	28	3	1	1	The tanganyika Rites
208	Ogaden I	1964	1964	28	35	2	2	1	10s
209	Yemen War II	1964	1964	16	21	2	1	1	10s
210	Gulf Of Tonkin	1964	1964	31	31	2	1	1	100s
211	Congo II	1964	1964	28	31	2	2	1	10s
212	Yemen War III	1964	1965	26	28	3	1	1	International Red Cross and Red Crescent Movement
213	Pleiku	1965	1965	12	15	2	1	1	10s; 1s; 1s
214	Rann Of Kutch	1965	1965	16	17	3	1	1	10s
215	Dominican Intervention	1965	1965	24	23	2	1	1	10ks
216	Kashmir II	1965	1966	28	40	3	0	1	100s; 1ks
217	Guinea Regime	1965	1965	14	13	2	3	1	10s
218	Rhodesia's Udi	1965	1966	30	34	2	0	1	Commonwealth Heads of Government Meeting
219	Yemen War IV	1966	1967	32	55	2	1	1	10ks; 1s
220	El Samu	1966	1966	12	13	3	3	1	1s
221	Che Guevara-Bolivia	1967	1967	21	29	3	1	1	Nancahuazú Guerrilla
222	Six Day War	1967	1967	28	49	3	0	1	1s; 10ks
223	Cyprus II	1967	1967	16	22	2	1	1	1s
224	Pueblo	1968	1968	28	40	2	2	1	10ks; 10s
225	Tet Offensive	1968	1968	33	46	2	0	1	100ks; 10ks
226	Karameh	1968	1968	13	16	3	2	1	Palestinian fedayeen
227	Prague Spring	1968	1968	42	60	2	2	1	1s
228	Essequibo I	1968	1968	16	27	2	1	1	1s
229	Beirut Airport	1968	1969	17	24	3	2	1	Catholic Church; international community
230	Vietnam Spring Offensive	1969	1969	29	37	2	0	1	100ks; 10ks
231	Ussuri River	1969	1969	32	28	2	3	1	100s; 1s
232	War Of Attrition	1969	1970	25	24	2	1	1	100s; 10s; 1ks
233	Ec-121 Spy Plane	1969	1969	12	13	3	1	1	10s; 10s; 1ks
234	Shatt-Al-Arab II	1969	1969	24	29	3	1	1	100s; 10s
235	Football War	1969	1969	24	35	2	2	1	100s; 10s
236	Cairo Agreement-Plo	1969	1969	12	10	3	1	1	100s; 10s
237	Invasion Of Cambodia	1970	1970	33	44	2	1	1	10ks; 1ks
238	Black September	1970	1970	31	51	2	2	1	10ks; 1ks
239	Cienfuegos Submarine Base	1970	1970	20	24	3	2	1	100s
240	Conakry Raid	1970	1970	22	42	3	1	1	100s

Crisis #	Title	Years		Counts		Coders	Units/Domains	Forces/Fatalities
		Start	End	Sent	Events			
301	North-South Yemen II	1979	1979	25	54	2	1	
302	Raids On Swapo	1979	1979	14	12	2	1	
303	Afghanistan Invasion	1979	1980	42	40	2	1	
304	Chad-Libya IV	1979	1979	24	38	2	4	
305	Goulimime-Tarfaya Road	1979	1979	27	25	2	1	
306	Soviet Threat-Pakistan	1979	1979	21	24	2	3	
307	Rhodesia Settlement	1979	1980	44	52	2	0	
308	Raid On Angola	1979	1979	13	11	2	0	
309	Us Hostages In Iran	1979	1981	56	72	2	2	
310	Colombia-Nicaragua	1979	1981	27	26	2	0	
311	Raid On Gafsa	1980	1980	33	43	2	2	
312	Operation Iman	1980	1980	19	22	2	1	
313	Operation Smokeshell	1980	1980	16	18	2	0	
314	Libya Threat-Sadat	1980	1980	24	24	2	2	
315	Solidarity	1980	1981	32	22	3	2	
316	Libya-Malta Oil Dispute	1980	1980	25	22	2	1	
317	Onset Iran-Iraq War	1980	1980	38	34	2	3	
318	Libya Intervention In The Gambia	1980	1980	20	17	2	5	
319	Jordan-Syria Confrontation	1980	1980	19	12	2	1	
320	East Africa Confrontation	1980	1981	10	13	2	1	
321	Chad-Libya V	1981	1981	34	57	2	2	
322	Ecuador-Peru Border III	1981	1981	26	39	2	1	
323	Mozambique Raid	1981	1981	12	8	3	0	
324	Iraq Nuclear Reactor	1981	1981	21	18	2	0	
325	Essequibo II	1981	1983	26	31	2	2	
326	Contras I	1981	1981	22	20	2	2	
327	Al-Biqa Missiles I	1981	1981	19	21	2	1	
328	Cameroun-Nigeria I	1981	1981	20	25	2	0	
329	Coup Attempt In The Gambia	1981	1982	16	16	2	1	
330	Gulf Of Syrite I	1981	1981	17	15	3	1	
331	Operation Protea	1981	1981	20	30	2	1	
332	Galtat Zemmour I	1981	1981	23	26	2	3	
333	U-137 Incident	1981	1981	29	29	2	1	
334	Coup Attempt In Bahrain	1981	1982	18	22	2	3	
335	Khorramshahr	1982	1982	40	38	2	2	
336	Falklands/Malvinas	1982	1982	50	50	2	1	
337	War In Lebanon	1982	1983	45	57	2	2	
338	Ogaden III	1982	1982	12	19	2	2	
339	Lesotho Raid	1982	1982	15	17	2	0	
340	Libya Threat To Sudan	1983	1983	25	29	2	0	
341	Chad-Nigeria Clashes	1983	1983	18	18	3	2	
342	Chad-Libya VI	1983	1984	37	55	2	3	
343	Invasion Of Grenada	1983	1983	42	35	2	1	
344	Able Archer 83	1983	1983	27	25	2	1	
345	Maitengwe Clashes	1983	1983	13	17	2	1	
346	Ethiopia-Sudan Tension	1983	1984	16	17	2	3	
347	Operation Askari	1983	1984	23	35	2	1	
348	Basra-Khang Island	1984	1984	43	34	3	1	
349	Aegean Sea II	1984	1984	15	18	2	1	
350	Omdurman Bombing	1984	1984	17	19	2	2	
351	Vietnam Incursion Into Thailand	1984	1984	15	13	2	1	
352	Sino-Vietnam Clashes	1984	1984	19	32	2	3	
353	Three Village Border I	1984	1984	25	16	2	2	
354	Nicaragua Mig-21s	1984	1984	25	22	2	0	
355	Botswana Raid	1985	1985	16	24	2	1	
356	Expulsion Of Tunisians	1985	1985	21	19	2	1	
357	Al-Biqa Missiles II	1985	1986	15	19	2	1	
358	Egypt Air Hijacking	1985	1985	26	19	2	1	
359	Burkina Faso-Mali Border	1985	1986	15	17	2	1	
360	South Africa Raid On Lesotho	1985	1986	18	16	2	1	

Crisis #	Title	Years Start	Years End	Counts Sent	Events Exp.	Nov.	Coders Actors	Units/Domains	Forces/Fatalities
361	Capture Of Al-Faw	1986	1986	33	23	2	2		; 10ks
362	Chad-Libya VII	1986	1986	22	32	2	0		; 10s
363	Gulf Of Syrte II	1986	1986	36	54	2	2		; 100s; 10ks; 1s
364	Al-Dibal Incident	1986	1986	15	20	2	1		; 1s
365	South Africa Cross Border Raid	1986	1986	16	24	2	0		; 100ks; 100s
366	Rebel Attack On Uganda	1986	1987	21	27	2	0		; 100s
367	Mozambique Ultimatum	1986	1986	13	19	2	2		; 10s
368	Attempted Coup In Togo	1986	1987	29	27	2	1		; 100s
369	Contras II	1986	1986	21	26	2	1		; 1ks; 1ks
370	Chad-Libya VIII	1986	1987	46	75	2	1		; 100s; 10s; 1ks; 10s; 1ks; 1s
371	Sino-Vietnam Border	1987	1987	17	22	2	1		; 100s; 1ks; 100s
372	Punjab War Scare II	1987	1987	31	41	3	1		; 10s
373	Todghere Incident	1987	1987	14	22	2	1		; 10s
374	Syria Intervention In Lebanon	1987	1987	25	40	2	4		; 10s; 100s
375	Sand Wall	1987	1987	34	41	2	2		; 10s; 1s
376	Aegean Sea III	1987	1987	31	31	2	2		; 10s; 1s
377	Cameroon-Nigeria II	1987	1987	12	8	2	0		; 10s
378	India Intervention In Sri Lanka	1987	1987	40	42	2	0		; 1s
379	Mecca Pilgrimage	1987	1987	29	50	2	1		; 10ks
380	South Africa Intervention In Angola	1987	1988	40	29	2	0		; 10ks
381	Three Village Border II	1987	1988	17	24	2	0		; 1ks; 10s
382	Kenya-Uganda Border	1987	1987	13	15	2	1		; 10s
383	Contras III	1988	1988	19	24	2	2		; 1ks
384	Spratly Islands I	1988	1988	50	38	2	0		; 1s
385	Iraq Recapture Of Al-Faw	1988	1988	34	30	2	0		; 1s
386	Libyan Jets	1988	1989	13	20	2	1		; 10s; 1ks; 1s
387	Mauritania-Senegal	1989	1991	21	21	2	2		; 10s
388	Cambodia Peace Conference	1989	1990	22	39	2	0		; 1s
389	Contras IV	1989	1989	21	23	2	2		; 10s; 100s
390	Galtat Zemmour II	1989	1989	31	35	2	1		; 1s
391	Invasion Of Panama	1989	1990	36	36	2	1		; 10ks; 1s
392	Kashmir III-Nuclear Confrontation	1990	1990	31	45	3	1		; 10s; 1s
393	Gulf War	1990	1991	86	111	2	2		; 100ks; 10ks
394	Rwanda-Uganda	1990	1991	25	42	2	1		; 100s; 1ks
395	Liberia-Sierra Leone	1991	1991	28	34	2	2		; 1ks
396	Ghana-Togo Border II	1991	1991	10	11	2	1		; 10s
397	Yugoslavia I: Croatia-Slovenia	1991	1992	87	66	3	0		; 100s; 1s
398	Bubian	1991	1991	10	9	2	2		; 1s
399	Foreign Intervention In Zaire	1991	1991	24	26	2	2		; 1s
400	Ecuador-Peru Border IV	1991	1991	19	19	2	0		; 1s
401	Nagornyy-Karabakh	1991	1992	40	54	2	2		; 1s
402	Egypt-Sudan Border II	1992	1992	32	25	2	1		; 1s
403	Yugoslavia II: Bosnia I	1992	1995	122	174	2	2		; 10s; 100s; 10ks; 10s
404	Papua New Guinea-Solomon	1992	1992	19	22	2	3		; 1s
405	Sleeping Dog Hill	1992	1992	14	16	2	2		; 1s
406	Iraq No-Fly Zone	1992	1992	37	46	2	1		; 10s; 1s
407	Georgia-Abkhazia	1992	1993	67	80	2	1		; 1s
408	North Korea Nuclear I	1993	1994	84	71	2	0		; 10s; 1s
409	Operation Accountability	1993	1993	28	30	2	3		; 10s; 1s
410	Cameroon-Nigeria III	1993	1994	33	43	2	3		; 10s; 1s
411	Haiti Military Regime	1994	1994	33	40	2	0		; 100ks; 10ks
412	Iraq Troop Deployment-Kuwait	1994	1994	48	64	2	2		; 100ks; 100s; 10ks; 1ks
413	Ecuador-Peru V	1995	1995	21	21	2	0		; 1s
414	Spratly Islands II	1995	1995	14	13	2	2		; 1s
415	Taiwan Strait IV	1995	1996	27	26	2	1		; 1s
416	Red Sea Islands	1995	1995	23	30	2	2		; 1s
417	Aegean Sea IV	1996	1996	31	39	2	2		; 1s; 10s; 1s
418	Operation Grapes Of Wrath	1996	1996	38	55	2	3		; 10s; 100s; 10s; 1s
419	Desert Strike	1996	1996	31	30	2	0		; 1s; 10ks
420	North Korean Submarine	1996	1996	31	37	2	1		; 100ks; 10s

Crisis #	Title	Years	Counts	Coders	Units/Domains	Forces/Fatalities			
		Start	End	Sent Events	Exp. Nov.	Actors			
421	Zaire Civil War	1996	1997	55	73	2	2	Alliance of Democratic Forces for the Liberation of Congo; Banyamulenge; Hutu; Interahamwe; Tutsi	1ks; 100s; 1ks
422	Unscm I	1997	1998	32	41	2	2		
423	Cyprus-Turkey Missile Crisis	1998	1998	20	23	2	4		
424	Ethiopia-Eritrea	1998	2000	33	56	2	1		1ks
425	India-Pakistan Nuclear Tests	1998	1998	24	25	3	1	G8	
426	Drc Civil War	1998	2002	40	52	3	0	Hutu	
427	Us Embassy Bombings	1998	1998	25	30	2	1		100s; 10s; 1s
428	Syria-Turkey	1998	1998	24	36	2	1		
429	Unscm II Operation Desert Fox	1998	1998	31	35	2	2		
430	Kosovo	1999	1999	33	35	2	0		1s
431	Kashmir Iv Kargil	1999	1999	19	28	2	0		1s
432	East Timor II	1999	1999	26	24	3	2	Pro-Indonesia militia	
433	Caspian Sea	2000	2001	17	21	2	0	BP; petroleum industry	
434	Afghanistan-Usa	2001	2001	43	34	2	1		10s
435	Indian Parliament Attack	2001	2002	16	18	2	3		10s; 1s; 1s
436	Kaluchak	2002	2002	30	30	3	3		10s; 1s; 1s
437	Myanmar-Thailand	2002	2002	17	26	4	3	Shan State Army	10s; 10s; 1s
438	Parsley Island	2002	2002	16	25	2	0		10s; 10s; 1s
439	Pankisi Gorge	2002	2002	29	31	2	0		10s; 10s; 1s
440	Iraq Regime Change	2002	2003	67	62	2	0		100s; 10s; 10ks
441	North Korea Nuclear II	2002	2004	48	35	2	1		
442	Iran Nuclear I	2003	2004	38	24	2	0		
443	Haifa Suicide Bombing	2003	2003	37	43	2	1	international community	10s; 10s; 1s
444	Drc-Rwanda	2004	2004	40	51	2	0	Congo; Democracy; Hutu; Rally for	10ks; 1ks
445	South Ossetia-Abhazia	2004	2004	27	27	2	3		100s
446	Ethiopia-Eritrea II	2005	2006	48	55	2	2		
447	Chad-Sudan I	2005	2006	31	37	2	6		100s; 10s
448	Iran Nuclear II	2006	2007	65	29	2	1		
449	Chad-Sudan II	2006	2006	56	72	2	2	United Front for Democratic Change	
450	North Korea Nuclear III	2006	2007	74	73	2	2	Banco Delta Asia; Daedong Credit Bank	1s
451	Israel-Lebanon War II	2006	2006	54	73	2	0	international community	10ks; 10s; 10s; 100s; 10s; 100s; 10s; 10s
452	Ethiopia Invasion Somalia	2006	2007	60	108	2	1	Intergovernmental Authority on Development; international community	100s; 1ks; 1s
453	Chad-Sudan III	2007	2007	55	50	2	2	Janjaweed	100s; 10s
454	Ethiopia-Eritrea III	2007	2007	30	45	2	2	Algiers	100s; 1s
455	Chad-Sudan IV1	2007	2008	59	108	2	0	Rally of Democratic Forces; Union of Forces for Democracy and Development; Union of Forces for Democracy and Development-Fundamental	1s; 10s; 1s
456	Djibouti-Eritrea1	2008	2008	29	44	2	0		10s
457	Preah Vihear Temple I1	2008	2009	37	55	2	0		10s; 100s; 10s; 1ks; 1s
458	Russo-Georgian War1	2008	2008	32	27	2	0		10s; 1ks; 1s
459	North Korea Nuclear IV: Satellite Launch1	2009	2009	33	35	2	0	Rally of Democratic Forces	1ks
460	Chad-Sudan V1	2009	2010	42	38	2	0	Forces; Union of Forces for Democracy and Development; Union of Forces for Democracy and Development-Fundamental; Union of Resistance Forces	100s; 1ks
461	Cheonan Sinking1	2010	2010	40	44	2	0		10s; 100s; 10ks; 1ks
462	Yeonpyeong Island1	2010	2011	44	73	2	0		100ks; 100s; 1ks
463	Preah Vihear Temple II1	2011	2011	41	59	2	0		
464	Libyan Civil War1	2011	2011	78	63	2	0	international community	1ks
465	Cote D'ivoire Presidential Crisis1	2011	2011	41	35	2	0		100s
466	Sudan-South Sudan1	2011	2012	54	47	2	0	Community; rpm; حرب إقليمية; International	1s
467	Scarborough Shoal1	2012	2012	51	40	2	0	International Tribunal for the Law of the Sea; Permanent Court of Arbitration	100s; 10s; 1ks
468	Syria-Turkey Border Incidents1	2012	2012	29	28	2	0		100s; 10s; 10s; 1s
469	North Korea Nuclear V1	2013	2013	64	70	2	0	international community	100s; 1ks
470	Syria Chemical Weapons1	2013	2013	49	42	2	0	Community; Organization for the Prohibition of Chemical Weapons	10s; 1ks
471	Crimea-Donbass1	2014	2015	83	93	2	0	dpr/pr; G8; Triilateral Contact Group on Ukraine	100s; 10s; 10s; 1s
472	Chinese Oil Rig1	2014	2014	41	42	2	0		100s; 10s; 1s
473	India-Pakistan Border Firing1	2014	2014	30	24	2	0		100s; 10s; 1s
475	Korean Land Mine1	2015	2015	33	34	2	0		100s; 10ks; 1s
476	Turkey-Russia Jet Incident1	2015	2016	82	126	2	0		100s; 10s; 10s; 100s; 10s; 1ks; 1s

1.2 Table A2: Verb Meanings (Glosses) found in the ICB Corpus (top 200)

uses	Lemma	Gloss
381	end	bring to an end or halt "She ended their friendship when she found out that he had once been convicted of a crime" "The attack on Poland terminated the relatively peaceful period after WW I"
365	trigger	release or pull the trigger on "Trigger a gun"
323	involve	engage as a participant "Dont involve me in your family affairs"
309	begin	have a beginning, of a temporal event "WW II began in 1939 when Hitler marched into Poland" "The companys Asia tour begins next month"
278	trigger	put in motion or move to act "trigger a reaction" "actuate the circuits"
260	announce	announce publicly or officially "The President declared war"
236	respond	respond favorably or as hoped "The cancer responded to the aggressive therapy"
212	call	call a meeting invite or command to meet "The Wannsee Conference was called to discuss the Final Solution" "The new dean calls meetings every week"
194	occur	come to pass "What is happening" "The meeting took place off without an incidence" "Nothing occurred that seemed important"
194	sign	approve and express assent, responsibility, or obligation "All parties ratified the peace treaty" "Have you signed your contract yet"
185	terminate	bring to an end or halt "She ended their friendship when she found out that he had once been convicted of a crime" "The attack on Poland terminated the relatively peaceful period after WW I"
178	begin	set in motion, cause to start "The U.S. started a war in the Middle East" "The Iraqis began hostilities" "begin a new chapter in your life"
160	meet	come together "Ill probably see you at the meeting" "How nice to see you again"
146	send	to cause or order to be taken, directed, or transmitted to another place "He had sent the dispatches downtown to the proper people and had slept"
145	occupy	march aggressively into anothers territory by military force for the purposes of conquest and occupation "Hitler invaded Poland on September 1, 1939"
135	be	happen, occur, take place "I lost my wallet this was during the visit to my parents house" "There were two hundred people at his funeral" "There was a lot of noise in the kitchen"
128	perceive	become conscious of "She finally perceived the futility of her protest"
126	become	undergo a change or development "The water turned into ice" "Her former friend became her worst enemy" "He turned traitor"
125	condemn	express strong disapproval of "We condemn the racism in South Africa" "These ideas were reprobated"
125	take	take by force "Hitler took the Baltic Republics" "The army took the fort on the hill"
124	escalate	increase in extent or intensity "The Allies escalated the bombing"
119	reject	refuse to accept or acknowledge "I reject the idea of starting a war" "The journal rejected the students paper"
117	respond	react verbally "She didnt want to answer" "answer the question" "We answered that we would accept the invitation"
116	demand	request urgently and forcefully "The victims family is demanding compensation" "The boss demanded that he be fired immediately" "She demanded to see the manager"
112	be	to remain unmolested, undisturbed, or uninterrupted used only in infinitive form "let her be"
111	agree	be in accord be in agreement "We agreed on the terms of the settlement" "I cant agree with you" "I hold with those who say life is sacred" "Both philosophers concord on this point"
110	reach	be in or establish communication with "Our advertisements reach millions" "He never contacted his children after he emigrated to Australia"
106	withdraw	pull back or move away or backward "The enemy withdrew" "The limo pulled away from the curb"
105	accuse	blame for, make a claim of wrongdoing or misbehavior against "he charged the director with indifference"
105	dispute	have a disagreement over something "We quarreled over the question as to who discovered America" "These two fellows are always scrapping over something"
105	fight	be engaged in a fight carry on a fight "the tribesmen fought each other" "Siblings are always fighting" "Militant groups are contending for control of the country"
102	continue	continue talking "I know its hard, he continued, but there is no choice" "carry onpretend we are not in the room"
100	include	consider as part of something "I include you in the list of culprits"
99	remain	be left of persons, questions, problems, results, evidence, etc. "There remains the question of who pulled the trigger" "Carter remains the only President in recent history under whose Presidency the U.S. did not fight a war"
98	experience	undergo or live through a difficult experience "We had many trials to go through" "he saw action in Viet Nam"
97	attempt	make an effort or attempt "He tried to shake off his fears" "The infant had essayed a few wobbly steps" "The police attempted to stop the thief" "He sought to improve himself" "She always seeks to do good in the world"
94	increase	make bigger or more "The boss finally increased her salary" "The university increased the number of students it admitted"
94	mediate	act between parties with a view to reconciling differences "He interceded in the family dispute" "He mediated a settlement"
94	threaten	to utter intentions of injury or punishment against "He threatened me when I tried to call the police"
93	request	inquire for information "I requested information from the secretary"
92	withdraw	make a retreat from an earlier commitment or activity "Well have to crawfish out from meeting with him" "He backed out of his earlier promise" "The aggressive investment company pulled in its horns"
91	hold	stop dealing with "hold all calls to the Presidents office while he is in a meeting"
90	invade	march aggressively into anothers territory by military force for the purposes of conquest and occupation "Hitler invaded Poland on September 1, 1939"
87	send	cause to go somewhere "The explosion sent the car flying in the air" "She sent her children to camp" "He directed all his energies into his dissertation"
86	launch	begin with vigor "He launched into a long diatribe" "She plunged into a dangerous adventure"
84	report	announce as the result of an investigation or experience or finding "Dozens of incidents of wife beatings are reported daily in this city" "The team reported significant advances in their research"
84	see	perceive or be contemporaneous with "We found Republicans winning the offices" "Youll see a lot of cheating in this school" "The 1960s saw the rebellion of the younger generation against established traditions" "I want to see results"
81	perceive	to become aware of through the senses "I could perceive the ship coming over the horizon"
80	accuse	bring an accusation against level a charge against "The neighbors accused the man of spousal abuse"
77	attack	launch an attack or assault on begin hostilities or start warfare with "Hitler attacked Poland on September 1, 1939 and started World War II" "Serbian forces assailed Bosnian towns all week"
77	dispatch	kill without delay "the traitor was dispatched by the conspirators"
77	end	put an end to "The terrible news ended our hopes that he had survived"
74	declare	announce publicly or officially "The President declared war"
74	discuss	speak with others about something talk something over in detail have a discussion "We discussed our household budget"
74	follow	keep under surveillance "The police had been following him for weeks but they could not prove his involvement in the bombing"
73	lead	tend to or result in "This remark lead to further arguments among the guests"
73	remain	stay behind "The smell stayed in the room" "The hostility remained long after they made up"
72	propose	present for consideration, examination, criticism, etc. "He proposed a new plan for dealing with terrorism" "She proposed a new theory of relativity" "The candidate projects himself as a moderate and a reformer"

uses	Lemma	Gloss
72	recognize	accept someone to be what is claimed or accept his power and authority "The Crown Prince was acknowledged as the true heir to the throne" "We do not recognize your gods"
70	capture	take possession of by force, as after an invasion "the invaders seized the land and property of the inhabitants" "The army seized the town" "The militia captured the castle"
70	deny	deny formally an allegation of fact by the opposing party in a legal suit
69	continue	exist over a prolonged period of time "The bad weather continued for two more weeks"
69	issue	bring out an official document such as a warrant
67	declare	proclaim ones support, sympathy, or opinion for or against "His wife declared at once for moving to the West Coast"
66	lead	stretch out over a distance, space, time, or scope run or extend between two points or beyond a certain point "Service runs all the way to Cranbury" "His knowledge doesn't go very far" "My memory extends back to my fourth year of life" "The facts extend beyond a consideration of her personal assets"
65	renew	reestablish on a new, usually improved, basis or make new or like new "We renewed our friendship after a hiatus of twenty years" "They renewed their membership"
64	achieve	to gain with effort "she achieved her goal despite setbacks"
63	provide	determine what is to happen in certain contingencies, especially by including a proviso condition or stipulation "The will provides that each child should receive half of the money" "The Constitution provides for the right to free speech"
61	appeal	take a court case to a higher court for review "He was found guilty but appealed immediately"
61	seek	make an effort or attempt "He tried to shake off his fears" "The infant had essayed a few wobbly steps" "The police attempted to stop the thief" "He sought to improve himself" "She always seeks to do good in the world"
60	attack	take the initiative and go on the offensive "The Serbs attacked the village at night" "The visiting team started to attack"
60	pass	go unchallenged be approved "The bill cleared the House"
59	agree	achieve harmony of opinion, feeling, or purpose "No two of my colleagues would agree on whom to elect chairman"
59	last	persist for a specified period of time "The bad weather lasted for three days"
58	claim	demand as being ones due or property assert ones right or title to "He claimed his suitcases at the airline counter" "Mr. Smith claims special tax exemptions because he is a foreign resident"
57	establish	bring about "The trompe l'oeil illusion establishes depth"
57	inform	impart knowledge of some fact, state of affairs, or event to "I informed him of his rights"
57	warn	notify, usually in advance "I warned you that I would ask some difficult questions"
56	offer	threaten to do something "I offered to leave the committee if they did not accept my proposal"
56	restore	bring back into original existence, use, function, or position "restore law and order" "reestablish peace in the region" "restore the emperor to the throne"
55	create	make or cause to be or to become "make a mess in ones office" "create a furor"
55	issue	circulate or distribute or equip with "issue a new uniform to the children" "supply blankets for the beds"
55	prevent	keep from happening or arising make impossible "My sense of tact forbids an honest answer" "Your role in the projects precludes your involvement in the competitive project"
55	support	argue or speak in defense of "She supported the motion to strike"
54	cross	travel across or pass over "The caravan covered almost 100 miles each day"
54	include	allow participation in or the right to be part of permit to exercise the rights, functions, and responsibilities of "admit someone to the profession" "She was admitted to the New Jersey Bar"
54	urge	push for something "The travel agent recommended strongly that we not travel on Thanksgiving Day"
53	agree	consent or assent to a condition, or agree to do something "She agreed to all my conditions" "He agreed to leave her alone"
53	continue	do something repeatedly and showing no intention to stop "We continued our research into the cause of the illness" "The landlord persists in asking us to move"
53	send	transfer "The spy sent the classified information off to Russia"
53	support	be behind approve of "He plumped for the Labor Party" "I backed Kennedy in 1960"
52	erupt	erupt or intensify suddenly "Unrest erupted in the country" "Tempers flared at the meeting" "The crowd erupted into a burst of patriotism"
52	resolve	reach a conclusion after a discussion or deliberation
52	view	deem to be "She views this quite differently from me" "I consider her to be shallow" "I dont see the situation quite as negatively as you do"
50	occur	to be found to exist "sexism occurs in many workplaces" "precious stones occur in a large area in Brazil"
50	take	admit into a group or community "accept students for graduate study" "Well have to vote on whether or not to admit a new member"
49	claim	take as an undesirable consequence of some event or state of affairs "the accident claimed three lives" "The hard work took its toll on her"
49	fade	disappear gradually "The pain eventually passed off"
49	intervene	get involved, so as to alter or hinder an action, or through force or threat of force "Why did the U.S. not intervene earlier in WW II"
49	kill	deprive of life "AIDS has killed thousands in Africa"
49	note	make mention of "She observed that his presentation took up too much time" "They noted that it was a fine day to go sailing"
49	suspend	stop a process or a habit by imposing a freeze on it "Suspend the aid to the wartorn country"
48	deploy	to distribute systematically or strategically "The U.S. deploys its weapons in the Middle East"
48	overthrow	cause the downfall of of rulers "The Czar was overthrown" "subvert the ruling class"
48	resolve	bring to an end settle conclusively "The case was decided" "The judge decided the case in favor of the plaintiff" "The father adjudicated when the sons were quarreling over their inheritance"
48	state	express in words "He said that he wanted to marry her" "tell me what is bothering you" "state your opinion" "state your name"
47	accept	give an affirmative reply to respond favorably to "I cannot accept your invitation" "I go for this resolution"
47	form	develop into a distinctive entity "our plans began to take shape"
47	use	avail oneself to "apply a principle" "practice a religion" "use care when going down the stairs" "use your common sense" "practice nonviolent resistance"
46	allege	report or maintain "He alleged that he was the victim of a crime" "He said it was too late to intervene in the war" "The registrar says that I owe the school money"
46	approve	give sanction to "I approve of his educational policies"
46	arrive	reach a destination arrive by movement or progress "She arrived home at 7 o'clock" "She didnt get to Chicago until after midnight"
46	break	make a rupture in the ranks of the enemy or ones own by quitting or fleeing "The ranks broke"
46	resume	take up or begin anew "We resumed the negotiations"
45	negotiate	discuss the terms of an arrangement "They negotiated the sale of the house"
45	protect	shield from danger, injury, destruction, or damage "Weatherbeater protects your roof from the rain"
45	protract	lengthen in time cause to be or last longer "We prolonged our stay" "She extended her visit by another day" "The meeting was drawn out until midnight"
44	follow	to bring something about at a later time than "She followed dinner with a brandy" "He followed his lecture with a question and answer period"
44	leave	remove oneself from an association with or participation in "She wants to leave" "The teenager left home" "She left her position with the Red Cross" "He left the Senate after two terms" "after 20 years with the same company, she pulled up stakes"
43	accept	react favorably to consider right and proper "People did not accept atonal music at that time" "We accept the idea of universal health care"

uses	Lemma	Gloss
43	comply	act in accordance with someones rules, commands, or wishes "He complied with my instructions" "You must comply or else" "Follow these simple rules" "abide by the rules"
43	generate	bring into existence "The new manager generated a lot of problems" "The computer bug generated chaos in the office" "The computer generated this image" "The earthquake generated a tsunami"
43	increase	become bigger or greater in amount "The amount of work increased"
43	initiate	set in motion, start an event or prepare the way for "Hitlers attack on Poland led up to World War II"
43	meet	experience as a reaction "My proposal met with much opposition"
43	refuse	show unwillingness towards "he declined to join the group on a hike"
43	succeed	attain success or reach a desired goal "The enterprise succeeded" "We succeeded in getting tickets to the show" "she struggled to overcome her handicap and won"
42	come	be received "News came in of the massacre in Rwanda"
42	launch	propel with force "launch the space shuttle" "Launch a ship"
42	move	follow a procedure or take a course "We should go farther in this matter" "She went through a lot of trouble" "go about the world in a certain manner" "Messages must go through diplomatic channels"
42	reaffirm	affirm once again "He reaffirmed his faith in the church"
42	take	take into consideration for exemplifying purposes "Take the case of China" "Consider the following case"
41	adopt	take up the cause, ideology, practice, method, of someone and use it as ones own "She embraced Catholicism" "They adopted the Jewish faith"
41	control	exercise authoritative control or power over "control the budget" "Command the military forces"
41	proclaim	state or announce "I am not a Communist, he exclaimed" "The King will proclaim an amnesty"
41	threaten	pose a threat to present a danger to "The pollution is endangering the crops"
40	bomb	throw bombs at or attack with bombs "The Americans bombed Dresden"
40	last	continue to live and avoid dying "We went without water and food for 3 days" "These superstitions survive in the backwaters of America" "The race car driver lived through several very serious accidents" "how long can a person last without food and water" "One crash victim died, the other lived"
39	implement	pursue to a conclusion or bring to a successful issue "Did he go through with the treatment" "He implemented a new economic plan" "She followed up his recommendations with a written proposal"
38	strengthen	make strong or stronger "This exercise will strengthen your upper body" "strengthen the relations between the two countries"
37	consider	think about carefully weigh "They considered the possibility of a strike" "Turn the proposal over in your mind"
37	decide	reach, make, or come to a decision about something "We finally decided after lengthy deliberations"
37	do	carry on or function "We could do with a little more help around here"
37	have	cause to move cause to be in a certain position or condition "He got his squad on the ball" "This let me in for a big surprise" "He got a girl into trouble"
37	help	contribute to the furtherance of "This money will help the development of literacy in developing countries"
37	hold	take and maintain control over, often by violent means "The dissatisfied students held the Presidents office for almost a week"
37	impose	impose and collect "levy a fine"
37	indicate	be a signal for or a symptom of "These symptoms indicate a serious illness" "Her behavior points to a severe neurosis" "The economic indicators signal that the euro is undervalued"
37	order	issue commands or orders for
36	become	enter or assume a certain state or condition "He became annoyed when he heard the bad news" "It must be getting more serious" "her face went red with anger" "She went into ecstasy" "Get going"
36	participate	become a participant be involved in "enter a race" "enter an agreement" "enter a drug treatment program" "enter negotiations"
35	call	order, summon, or request for a specific duty or activity, work, role "He was already called 4 times for jury duty" "They called him to active military duty"
35	cause	cause to do cause to act in a specified manner "The ads induced me to buy a VCR" "My children finally got me to buy a computer" "My wife made me buy a new sofa"
35	enmesh	entangle or catch in or as if in a mesh
35	have	be confronted with "What do we have here" "Now we have a fine mess"
35	make	give certain properties to something "get someone mad" "She made us look silly" "He made a fool of himself at the meeting" "Dont make this into a big deal" "This invention will make you a millionaire" "Make yourself clear"
34	evacuate	move out of an unsafe location into safety "After the earthquake, residents were evacuated"
34	fire	drive out or away by or as if by fire "The soldiers were fired" "Surrender fires the cold skepticism"
34	intend	have in mind as a purpose "I mean no harm" "I only meant to help you" "She didnt think to harm me" "We thought to return early that night"
34	lead	preside over "John moderated the discussion"
34	refuse	resist immunologically the introduction of some foreign tissue or organ "His body rejected the liver of the donor"
34	warn	notify of danger, potential harm, or risk "The director warned him that he might be fired" "The doctor warned me about the dangers of smoking"
33	bring	bring into a different state "this may land you in jail"
33	provide	make a possibility or provide opportunity for permit to be attainable or cause to remain "This leaves no room for improvement" "The evidence allows only one conclusion" "allow for mistakes" "leave lots of time for the trip" "This procedure provides for lots of leeway"
33	respond	show a response or a reaction to something
33	shoot	kill by firing a missile
33	stop	hold back, as of a danger or an enemy check the expansion or influence of "Arrest the downward trend" "Check the growth of communism in South East Asia" "Contain the rebel movement" "Turn back the tide of communism"
33	use	seek or achieve an end by using to ones advantage "She uses her influential friends to get jobs" "The presidents wife used her good connections"
32	accord	go together "The colors dont harmonize" "Their ideas concorded"
32	broker	act as a broker
32	continue	span an interval of distance, space or time "The war extended over five years" "The period covered the turn of the century" "My land extends over the hills on the horizon" "This farm covers some 200 acres" "The Archipelago continues for another 500 miles"
32	fail	fall short in what is expected "She failed in her obligations as a good daughterinlaw" "We must not fail his obligation to the victims of the Holocaust"
32	flee	run away quickly "He threw down his gun and fled"
32	involve	connect closely and often incriminatingly "This new ruling affects your business"
32	maintain	keep in safety and protect from harm, decay, loss, or destruction "We preserve these archeological findings" "The old lady could not keep up the building" "children must be taught to conserve our national heritage" "The museum curator conserved the ancient manuscripts"
31	adopt	choose and follow as of theories, ideas, policies, strategies or plans "She followed the feminist movement" "The candidate espouses Republican ideals"
31	assist	give help or assistance be of service "Everyone helped out during the earthquake" "Can you help me carry this table" "She never helps around the house"
31	fail	disappoint, prove undependable to abandon, forsake "His sense of smell failed him this time" "His strength finally failed him" "His children failed him in the crisis"
31	follow	accept and follow the leadership or command or guidance of "Lets follow our great helmsman" "She followed a guru for years"

uses	Lemma	Gloss
31	force	take by force "Storm the fort"
31	hold	to close within bounds, or otherwise limit or deprive of free movement "This holds the local until the express passengers change trains" "About a dozen animals were held inside the stockade" "The illegal immigrants were held at a detention center" "The terrorists held the journalists for ransom"
31	monitor	keep tabs on keep an eye on keep under surveillance "we are monitoring the air quality" "the police monitor the suspects moves"
31	move	change location move, travel, or proceed, also metaphorically "How fast does your new car go" "We travelled from Rome to Naples by bus" "The policemen went from door to door looking for the suspect" "The soldiers moved towards the city in an attempt to take it before night fell" "news travelled fast"
31	order	give instructions to or direct somebody to do something with authority "I said to him to go home" "She ordered him to do the shopping" "The mother told the child to get dressed"
31	receive	receive a specified treatment abstract "These aspects of civilization do not find expression or receive an interpretation" "His movie received a good review" "I got nothing but trouble for my good intentions"
30	engage	carry on wars, battles, or campaigns "Napoleon and Hitler waged war against all of Europe"
30	express	send by rapid transport or special messenger service "She expressed the letter to Florida"
30	impose	impose something unpleasant "The principal visited his rage on the students"
30	kill	mark for deletion, rub off, or erase "kill these lines in the Presidents speech"
30	seek	try to locate or discover, or try to establish the existence of "The police are searching for clues" "They are searching for the missing man in the entire county"
29	conclude	reach agreement on "They concluded an economic agreement" "We concluded a ceasefire"
29	decide	cause to decide "This new development finally decided me"
29	include	add as part of something else put in as part of a set, group, or category "We must include this chemical element in the group"
29	plan	have the will and intention to carry out some action "He plans to be in graduate school next year" "The rebels had planned turmoil and confusion"
29	protest	express opposition through action or words "dissent to the laws of the country"
29	receive	express willingness to have in ones home or environs "The community warmly received the refugees"
29	regard	connect closely and often incriminatingly "This new ruling affects your business"
29	say	report or maintain "He alleged that he was the victim of a crime" "He said it was too late to intervene in the war" "The registrar says that I owe the school money"
29	stand	have or maintain a position or stand on an issue "Where do you stand on the War"
29	undermine	destroy property or hinder normal operations "The Resistance sabotaged railroad operations during the war"

2 Appendix B: Coding Process

2.1 Figure B1: Graphical User Interface

Figure 2: Graphical User Interface (GUI) for coding ICBe

8. The U.S. crisis was triggered on 16 October when the CIA presented to President Kennedy photographic evidence of the presence of Soviet missiles in Cuba.

Kind of Event?	Timing of Event in Narrative?	Duration of Event?	Date or Period of Event?	Your Confidence?			
8.1 THOUGHT: mental reactions, often about speech or actions (crisis, desire, victory, learn,...)	Days	Instantaneous	16 October	High Confidence			
Perceiver(s)?	Cognition(s)?	About an Event Described...?					
U.S. ×	Start of Crisis × Discover fact ×	Act in this Sentence					
Initiator(s)?	Receiver(s)?	Kind of Interaction?	Specific Escalation(s)				
USSR ×	Cuba ×	Escalatory (Raise/Deploy/Use Forces, Start/Execute War,...)	Deployment to Area ×				
Fatalities?	Force Size?	Domains?	Units?	Location?	Change in Territory?	Location?	Location? (Txt)
Best estimate	Best estimate	Best Describ	Missiles × Nuclear ×	Target	No Clear Change	Country ×	Cuba

2.2 Algorithm B2: Coding Aggregation and Filtering

```

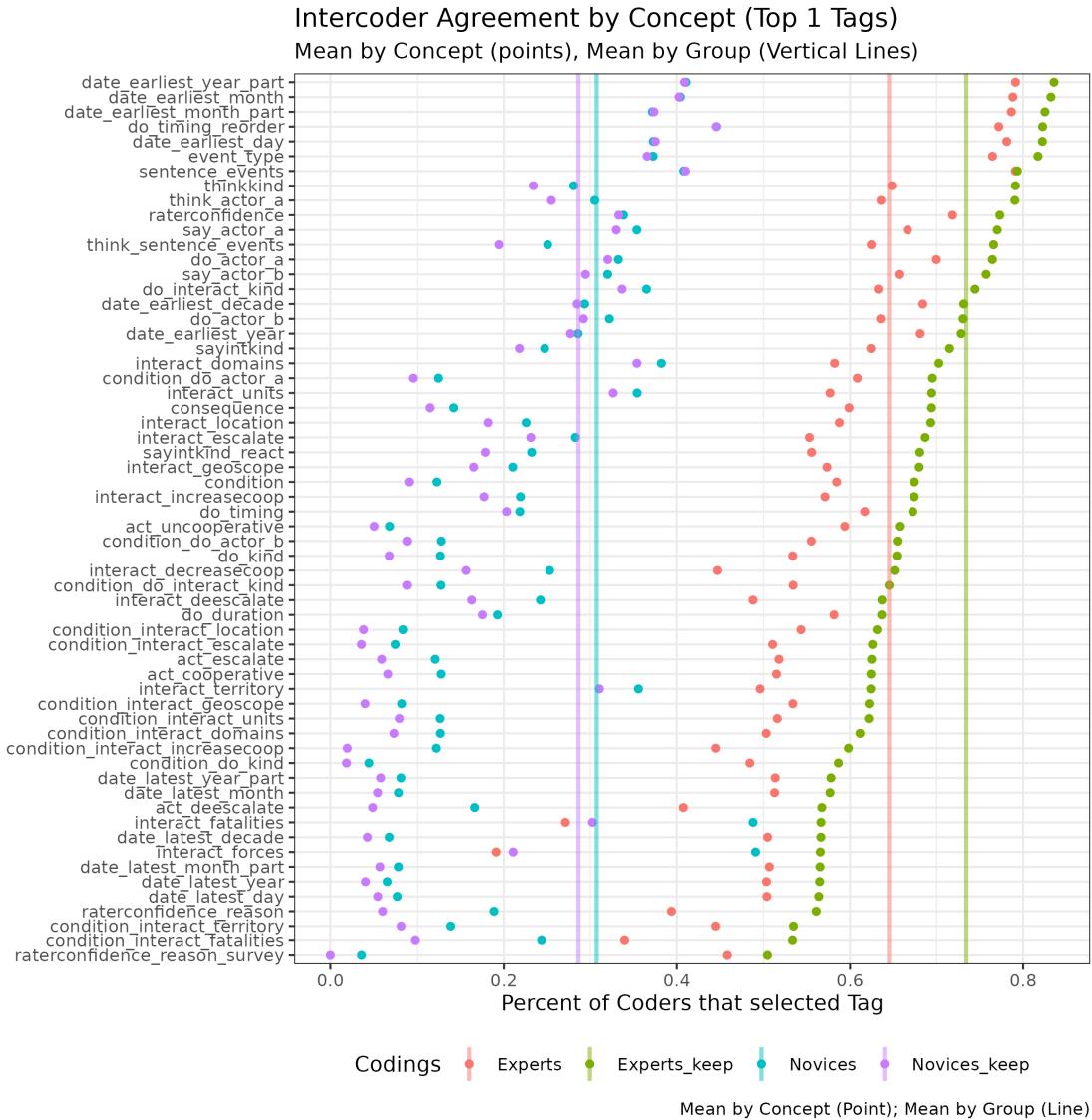
Data: Coder-Sentence-Tokens
Result: Sentence-Events
foreach sentence in sentences do
    foreach concept in concepts do
        foreach token in tokens do
            if expert votes==0 then reject; /* Require at least one expert vote */;
            else if expert votes >= expert voters/2 then
                | accept;
            else if novice votes >= novice voters/2 then
                | accept; /* Or a majority of novice votes */
            end
            if sum(accepted) == 0 then
                | sort tags by votes; head 1; accept; /* If still no tag, take one with most votes */
            end
        end
        foreach ActorSet in unique(ActorSets) do
            | emit event;
        end
    end

```

Algorithm 1: Aggregating Coder-Tokens into Sentence-Events

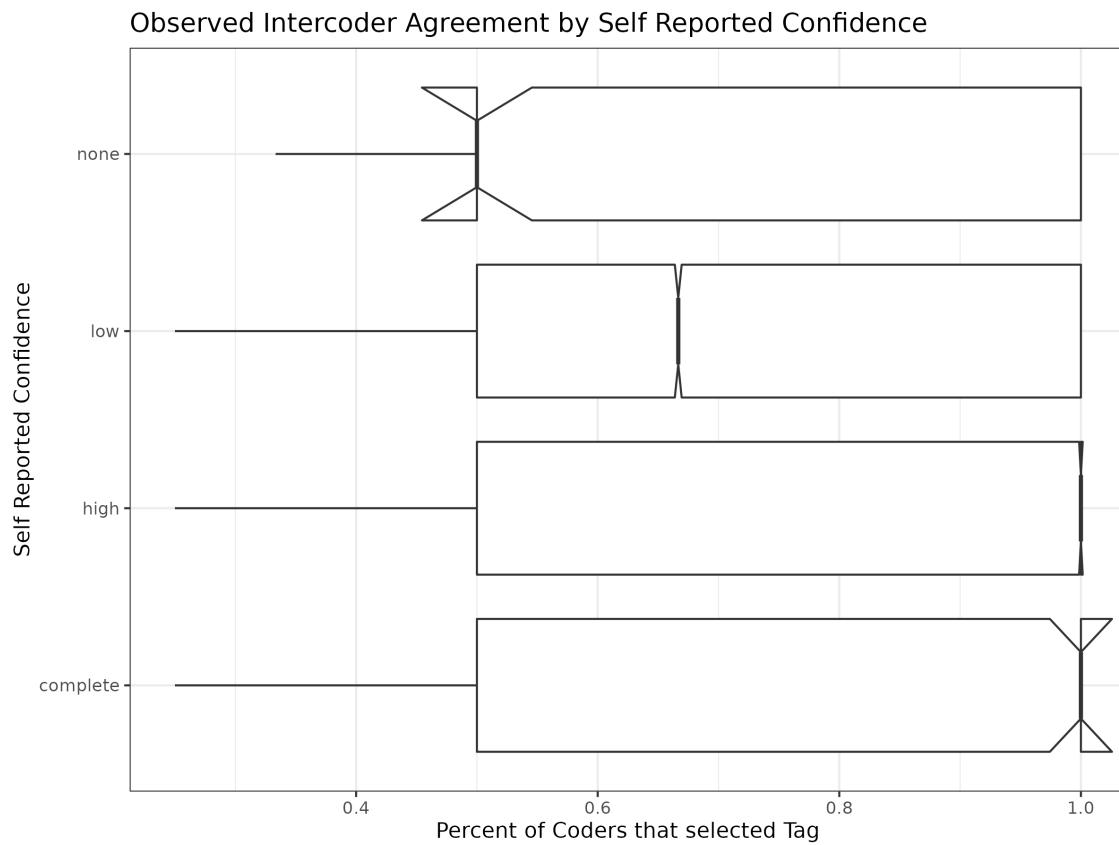
2.3 Figure B3 : Intercoder Agreement

Figure 3: Intercoder Agreement by Concept/Type



2.4 Figure B4 : Intercoder Agreement by Confidence

Figure 4: Intercoder Agreement by Concept/Type



3 Appendix C: Recall

3.1 Algorithm C1: Synthetic Narratives

A synthetic narrative is constructed as follows. First, compile a large corpus, D , of timelines, encyclopedia entries, journal articles, news reports, websites, and government documents. Next, segment into sentences, $s \in S$, clean, filter, and break into simpler concise sentences, $s^* \in S^*$, using a large natural language model, BART (Lewis et al. 2019), fine-tuned on summarization tasks, distilbart-cnn-12-6 (Shleifer and Rush 2020). Then, calculate semantic similarity between each S^* by embedding them with a different large language model, MPNet (Song et al., n.d.), fine tuned to identify paraphrasing (Reimers and Gurevych 2019, 2020). Next, constructed an undirected weighted graph of pair above 95th percentile cosine similarity and hierarchically cluster them into potential events $e^* \in E^*$ (Clauset, Newman, and Moore 2004). The resulting set of E^* are small enough to check by hand, summarize, and place in chronological order. The relevant formulas and algorithm are shown below.

Cosine Similarity

$$\text{cosine similarity} = \frac{a \cdot b}{\|a\| \|b\|} \quad (1)$$

Adjacency Matrix

$$A_{vw} = \begin{cases} 1 & \text{if vertices v and w are connected} \\ 0 & \text{otherwise} \end{cases} \quad (2)$$

Identity Function

$$\delta(i, j) = \begin{cases} 1 & \text{if } i=j \\ 0 & \text{otherwise} \end{cases} \quad (3)$$

Degree of a vertex

$$k_v = \sum_w A_{vw} \quad (4)$$

Modularity - Is the difference between observed within-community edges and average expected edges on a random graph

$$Q = \frac{1}{2m} \sum_{vw} [A_{vw} - \frac{k_v k_w}{2m}] \delta(C_v, C_w) \quad (5)$$

Data: Document-Sentences
Result: Event-Mentions

```

/* Embed text as a 768 dimensional semantic vector with a large language model      */
foreach document in Document do
    foreach sentence in sentence do
        | embedding=distilbart-cnn-6-6(sentence);
    end
end
similarity = cosine similarity(embeddings,embeddings);
/* Threshold similarity matrix and create weighted undirected graph      */
/* Frame as adding edges so efficient nearest neighbor lookup can be used      */
g=EmptyUndirectedWeightedGraph();           /* Sparse undirected graph to store edges */
foreach v in 1:rows(similarity) do
    foreach w in 1:cols(similarity) do
        | if similarity[v,w]>0.96 and doc(V)!=doc(W) then append edge v<->w to g;
          |           /* If similar append as undirected edge to graph */
    end
end
/* Community detection with greedy hierarchically clustering (Clauset et al. 2004) */
gClustered=EmptyUndirectedGraph(vertices(g)); /* Sparse undirected graph to store edges */
dendrogram=list() while length(edges(g))>1 do
    foreach edge in edges(g) do
        | Qpossible[edge]=Q(gClustered + edge)
    end
    foreach edge in edges(g) do
        | /* Add the edge with the maximum increase in modularity      */
        | /* Remove from original graph as a housekeeping trick      */
        | if QPossible[edge]=max(QPossible) then append edge to gClustered and remove edge from g;
          |   append QPossible to dendrogram ;
    end
end
/* Cut the dendrogram to maximize modularity and return event clusters      */
return dendrogram where Q(dendrogram)==max(dendrogram)      */
/* */
```

Algorithm 2: Clustering and counting sentences about the same event

3.2 Table C2: Synthetic Narrative Matches Cuban Missile

Figure 5: Cuban Missile Crisis Synthetic Narrative Recall Matches

date	Event	Mentions	ICB Narrative	ICBe	ICB	MIDs	Phoenix
12/31/1958	communist coup	128					0
6/8/1959	nationalizes USA owned businesses	28					On June 22 1959, Cuba elites seize or damage property government in United States
10/26/1959	backchannel negotiates with USA	18					0
1/1/1960	begins recon flights over Cuba	10					0
3/17/1960	prepares for invasion of Cuba	159	181-5	1			0
5/1/1960	U-2 downed over Cuba	8				MID#253 Border violation-Attack-Released (for seizures)	0
5/7/1960	establishes diplomatic and trade relations with Cuba	10					0
7/8/1960	embargos Cuba	21					0
9/14/1960	attempts assassination of Fidel Castro	9					0
1/3/1961	breaks diplomatic ties with Cuba	40					On September 15 1960, United States reduce or break diplomatic relations Cuba in Manhattan
4/17/1961	attempts coup in Cuba	16					0
4/17/1961	invades Cuba	192	181-10	1	181 Violent Act	MID#246 Show of force-Attack-Stalemate	On April 18 1961, Cuba seize or damage property unidentified armed force (tertiary role code)
4/19/1961	Invasion fails	5	181-13	1	181 Unilateral-Self		0
6/1/1961	provides economic and military aid to Cuba	43	181-16	1			On October 20 1960, Russia provide aid Cuba in United States
8/13/1961	begins construction of Berlin Wall	62	185	1	185 non-violent military act	MID#27 Mobilization-Blockade-Stalemate	0
11/30/1961	covert destabilization efforts against Cuba	44					0
4/1/1962	places nuclear missiles in Turkey	93					0
5/21/1962	begins placing nuclear missiles in Turkey	31					0
7/1/1962	asks Cuba for weapons	5					0
7/1/1962	deploys troops to Cuba	5					0
7/1/1962	places nuclear missiles in Cuba as response to USA placing nuclear missiles in Turkey	347					0
8/10/1962	begins to suspect Cuba has nuclear missiles will be placed in Cuba	29	196-6	0			0
9/4/1962	meets USA to denies presence of missiles	14	196-7	0			0
9/4/1962	demands withdrawal and threatens nuclear response on Cuba if attacked from Cuba	125					0
9/11/1962	threatens war with USA if attack on USA or ships	8					0
10/1/1962	deploys nuclear armed submarines	5					0
10/14/1962	discovers Cuba has nuclear missiles in Cuba	705	196-8	1	196 External Change		0
10/17/1962	starts crisis						0
10/17/1962	mobilizes troops for invasion of Cuba	13	196-4	1			0
10/18/1962	meets USA to denies presence of missiles	21					0
10/22/1962	blockades Cuba	400	196-9	1	196 Non-violent military act	MID#61 Blockade	0
10/22/1962	demands withdrawal	7					0
10/22/1962	raises nuclear alert	5					0
10/22/1962	threatens military attack on USA	10					0
10/23/1962	OAS statement of support for USA	7	196-13	1			0
10/23/1962	meets USA denies offensive intention	8					0
10/24/1962	respects USA blockade of Cuba	23			196 Non-violent military act		0
10/24/1962	raises nuclear alert	14					0
10/25/1962	confronts Cuba at the UN	30					0
10/26/1962	offers remove missiles for USA invasion pledge	60	196-16	1	196 Political act		On October 25 1962, government accuse government in Republic of Cuba
10/27/1962	nuclear missiles in Cuba operational	5					0
10/27/1962	accidentally violates Cuba airspace	25					0
10/27/1962	interdicts Cuba submarine	16					0
10/27/1962	offers withdraw of nuclear missiles in Turkey for Cuba missiles in Cuba	115					0
10/27/1962	promises to not invade Cuba	32	196-20	1			0
10/27/1962	U-2 shot down over Cuba	119	196-17	1		MID#61 Attack	0
10/27/1962	withdraws nuclear missiles in Turkey for USA promise to not invade Cuba	547	196-22	1	196 Semi-formal agreement	MID#61 Yield	0
10/30/1962	refuses USA observers	7	196-21	1			0
11/20/1962	ends blockade Cuba	22	196-31	1	196 Semi-formal agreement		0
4/1/1963	removes missiles from Cuba	5					0
8/5/1963	USA, USSR sign Nuclear Test Ban Treaty	94					0
8/30/1963	USA, USSR install hotline	55					0

3.3 Table C3: Synthetic Narrative Matches Crimea-Donbas

Figure 6: Crimea-Donbas Synthetic Narrative Recall Matches

date	Event	Mentions	ICB Narrative	ICBe	Phoenix	Terrier	ICEWS
1994-12-05	█ nuclear disarmed in exchange for █ promise to never invade	7	0				
2004-04-02	NATO expands to include Estonia, Latvia, and Lithuania	5	0				
2008-01-01	NATO provides incredible offer of membership to █	7 471-78	1				
2008-08-01	█ invades Georgia and annexes Abkhazia and Ossetia	10 458	1				
2010-04-21	█ and █ ratified the Russian Ukrainian Naval Base for Gas treaty, extending the Russian Navy's lease of █ facilities for 25 years after 2017	5	0				
2013-11-01	█ plans to join █ trade agreement	6 471-3	0		On November 11 2013, Ukraine government express intent to engage in material cooperation, not specified below government in Kiev on the topic of european_union		On November 18 2013, Ukraine express intent to cooperate economically European Union
2013-11-21	█ rejects █ trade agreement	42 471-3	1	0			On November 30 2013, Ukraine Viktor Yanukovych reject economic cooperation Europe European Union Inter-governmental organizations in Brussels
2013-11-21	█ protests	6 471-14	1		On November 29 2013, government engage in political dissent Ukraine in Kiev on the topic of european_union	On November 25 2013, Opposition appeal for change in leadership Government Ukraine	On November 30 2013, Ukraine Citizen (Ukraine) demand change in leadership Viktor Yanukovych Ukraine in Kiev
2013-12-17	█ offers debt relief and discounted energy to █	5	0		On December 17 2013, Russia express intent to cooperate economically Ukraine in Russian Federation	On December 17 2013, Russia cooperate economically Ukraine	On December 17 2013, Russian Federation Gazprom express intent to cooperate economically Ukraine in Kiev
2014-02-01	█ provide econ and military aid	26 471-66	1		On April 22 2014, United States provide economic aid Ukraine	On April 15 2014, United States provide aid Ukraine in United States	On February 25 2014, United States provide aid Ukraine in Kiev
2014-02-21	█ backs █ political settlement	10 471-9	1		On February 21 2014, europe european union government express intent to cooperate government Ukraine	On February 21 2014, Inter-governmental organizations Europe European Union Government engage in negotiation Elites Ukraine in Kyiv	On February 21 2014, European Union sign formal agreement Ukraine in Kiev
2014-02-22	█ leader removed and flees to █	65 471-22	1		On February 22 2014, Ukraine accede to demands for change in leadership Government in Ukraine	On February 22 2014, Ukraine accede to demands for change in leadership Government in Ukraine	On February 21 2014, Ukraine Head of Government (Ukraine) yield People Associated with the Opposition (Ukraine) Ukraine in Kiev
2014-02-27	█ backed gunmen begin seizing government buildings in █	10 471-18	1		On February 27 2014, opposition seize or damage property government Ukraine on the topic of activism	On February 27 2014, Unidentified Armed Force (tertiary role code) use conventional military force Legislatu	On February 27 2014, Ukraine Armed Band (Ukraine) use unconventional violence Crimea Ukraine
2014-03-01	█ votes to deploy military to █	11 471-21	1		On March 2 2014, Russia military mobilize or increase armed forces Ukraine	On March 1 2014, Russia mobilize or increase armed forces Ukraine in Russian Federation	On March 1 2014, Russian Federation Legislatu (Russia) mobilize or increase armed forces Ukraine
2014-03-16	█ independence referendum	12 471-23	0	0		0	On March 16 2014, Ukraine Crimea reduce or break diplomatic relations Ukraine
2014-03-16	█ mobilizes forces to █ and █ border	11 471-27	1		On March 17 2014, Russia military occupy territory Ukraine in Crimean Peninsula	On March 16 2014, Russia Military occupy territory Ukraine in Crimean Peninsula	On March 16 2014, Russian Federation Russia mobilize or increase armed forces Crimea Ukraine in Prague
2014-03-16	█ backed separatists attack █ in Donbas	6	0		On March 17 2014, Ukraine unidentified armed force (tertiary role code) use conventional military force Russia in Ukraine	On March 17 2014, Papal use conventional military force Judiciary Government Ukraine in Donetsk	On March 17 2014, Russian Federation Russia use conventional military force Ukraine
2014-03-17	█, █ sanctions █	83 471-64	1		On March 18 2014, United States impose embargo, boycott, or sanctions political party Russia in United States on the topic of sanctions	On March 17 2014, United States impose embargo, boycott, or sanctions Russia in Moscow	On March 17 2014, United States Barack Obama impose embargo, boycott, or sanctions Russia Russian Federation in Washington D.C.
2014-03-18	█ annexes █	180 471-23	1	0		On March 17 2014, Russia occupy territory Ukraine in Crimean Peninsula	On March 17 2014, Russian Federation Military (Russia) occupy territory Ukraine in Crimean Peninsula
2014-04-06	█ backed separatists begin fighting in █ (Donetsk and Luhansk)	146 471-31	1		On April 8 2014, Russia occupy territory Ukraine in Donetsk	On April 29 2014, Opposition use conventional military force Ukraine in Donetsk	On March 18 2014, Russian Federation Military (Russia) use conventional military force Ukraine in Donetsk
2014-04-23	█ military excercises at █ border	7 471-35	1	0		On April 25 2014, Russia demonstrate military or police power Ukraine in Kyiv	On April 25 2014, Ukraine Separatist (Ukraine) use conventional military force Government (Ukraine) Ukraine in Donetsk
2014-05-11	DPR and the LPR declare independence	5 471-30	1	0		0	0
2014-05-21	DPR requests █ Russian military intervention	5	0		On May 21 2014, Ukraine rebel consult Russia	0	0
2014-07-17	█ shoots down passenger jet (Malaysia Airlines Flight 17)	6 471-44	1	0		0	On July 17 2014, Russian Federation Russia employ aerial weapons Airline (Malaysia) Malaysia in Moscow
2014-07-17	█ sanctions █	5 471-75	1		On July 8 2014, europe european union impose embargo, boycott, or sanctions Russia in Eu on the topic of european_union	On July 18 2014, Inter-governmental organizations Europe European Union impose embargo, boycott, or sanctions Russia	On June 27 2014, European Union impose embargo, boycott, or sanctions Russia Russian Federation in Brussels
2014-07-17	█ econ sanction █	5 471-42	1		On July 25 2014, Russia impose embargo, boycott, or sanctions Ukraine in Ukraine	On July 25 2014, Russia Government impose embargo, boycott, or sanctions Ukraine	On December 15 2014, Russian Federation Russia impose embargo, boycott, or sanctions Ukraine in Brussels
2014-09-05	█, █, the DPR and the LPR signed a ceasefire agreement, the Minsk I	10 471-49	1	0		On September 5 2014, Ukraine sign formal agreement Rebel	On September 5 2014, Ukraine Other Authorities / Officials (Ukraine) sign formal agreement Rebel Commander (Ukraine) Ukraine in Minsk
2014-09-06	█, DPR, and the LPR, continue fight with █	15 471-52	1		On September 7 2014, unidentified armed force (tertiary role code) use conventional military force Ukraine in Donetsk		On September 26 2014, Ukraine Separatist (Ukraine) use conventional military force Military (Ukraine) Ukraine in Donetsk
2015-02-12	█, █, the DPR and the LPR signed a ceasefire agreement (Minsk II)	10 471-59	1	0		On February 14 2015, Ukraine Papal Legislature sign formal agreement Ukraine in Minsk	On February 12 2015, Ukraine sign formal agreement Armed Rebel (Belarus) Belarus in Minsk
2015-02-21	█ recognizes Donetsk People's Republic and the Luhansk People's Republic	6	0	0		0	0

4 Appendix D: Precision

4.1 Figure D1 Crimea-Donbas

Figure 7: Annexation of Crimea ICB Narrative and ICBe codings

S	ICB	ICBe
3	On 21 November 2013, Ukrainian president Victor Yanukovych sparked a wave of anti-government unrest – commonly known as “Euromaidan” – when he rejected a trade and political association agreement with the EU in favor of forging closer ties to Russia.	reject - sign formal agreement
4	Demonstrations in favor of closer European integration began in Kiev that evening and were initially peaceful, but they eventually spread to other parts of Ukraine and escalated into a series of increasingly violent clashes between protesters and police, as well as demands for the resignation of Yanukovych.	express intent - economic cooperation riot
5	Violence between protesters and police reached its peak in mid-February 2014, when both sides were firing at each other and the number of deaths increased significantly.	protest human rights violation;mass killing
6	Alarmed by the escalating use of repression by the Ukrainian government, the United States imposed visa bans on twenty senior Ukrainian governmental officials on 19 February.	end economic cooperation restrict rights
7	The EU followed suit the next day with its own package of sanctions that included travel bans and asset freezes targeted at Ukrainian officials as well as a ban on the export of equipment that could be used for repression by the Ukrainian government.	disapprove end economic cooperation restrict rights unspecified aid
9	Faced with a Ukrainian Parliament that was now dominated by the political opposition, Yanukovych was pressured into signing an EU-mediated agreement on 21 February to try and end the political and civil crisis in Ukraine.	accept
10	This agreement was all for naught, as Yanukovych fled Kiev for eastern Ukraine later that night, and Parliament voted to remove him from office the following day.	leadership change
11	The opposition took over the Ukrainian government, and Maidan protesters captured the presidential palace and took control of Kiev.	coup
12	The removal of Yanukovych on 22 February 2014 sparked a crisis for Russia.	assert political control over populated place (town/city) large gain 1ks 10s
13	Russia feared that Ukraine would leave its sphere of influence and become a NATO ally.	start of crisis
14	Russia also expressed concerns about the rights of Russian-speakers in Ukraine, particularly in the predominantly Russian-speaking region of Crimea, where pro-Moscow protesters were calling for Crimea to secede from Ukraine.	fear - military cooperation fear - human rights violation
15	Russian officials met the night of 22 February and into the morning of February 23, when it was decided that Crimea should be retaken and Yanukovych should be extracted from Ukraine.	express intent assert political control over points other:region
18	On 27-28 February, unidentified soldiers (widely suspected, and later confirmed to have been Russian special forces) seized several government buildings and airports in Crimea, sparking a crisis for Ukraine.	assert political control over:invasion/occupation populated places small gain
19	Ukraine's major response to its crisis was verbal and began on 27 February, when it sent a note to Russia demanding that Russian troops stay on base in Crimea, called for calm, and discussed the final part of its major response.	start of crisis invasion/occupation points other small gain appeal - discussion;meeting
20	The following day, Ukraine called for a meeting of the United Nations Security Council (UNSC), the final part of its major response.	demand appeal
21	On 1 March, the Russian Parliament gave President Vladimir Putin permission to use force in Crimea, and Russia launched a full-scale military intervention in the country that day.	appeal - meeting attack;border violation;deployment to area;invasion/occupation surrender region small loss
22	The move was met with little resistance from Ukraine, which was advised by the U.S. to avoid a military confrontation with Russia.	appeal annex points other:region large gain;small gain reduce control over;withdraw from area populated places;region large loss;small loss
23	Crimea was formally annexed on 18 March, following a local referendum two days earlier in which 97% of voters supported joining Russia.	exercise;fortify region
24	Non-violent anti-Russian confrontations in Crimea continued until 25 March, when Ukraine withdrew completely from the region.	fortify border:region remove fortify;withdraw from area border:region
26	Pro-Russian protests in the predominantly Russian-speaking Donbass region in eastern Ukraine began shortly after Crimea was annexed.	meeting dpr/pr assert autonomy against;attack points other:region
27	At some point soon thereafter, Russia began to conduct military exercises in Rostov and other points to try to force Ukraine to back down in Donbass without having to resort to violence.	invasion/occupation join war on behalf:military cooperation dpr/pr populated place (town/city) small gain
28	Ukraine beefed up security at border checkpoints, citing fears that Russian troops may invade.	declaration of war battle/clash populated place (town/city)
29	Russia removed some of its forces from Rostov on 31 March after a conversation between the U.S. and Russian foreign ministers.	attack dpr/pr region small gain
30	Pro-Russian militants in Donbass took control of several government buildings on April 7 and later declared independence from Ukraine – in the form of the Donetsk People’s Republic (DPR) and the Luhansk People’s Republic (LPR) – following referenda.	deployment to area;exercise;fortify border:region
31	This set off a war between Ukrainian security forces and pro-Russian militias in Donbass, supported by Russian arms and widely suspected to have included Russian military members.	join war on behalf:military cooperation dpr/pr declaration of war battle/clash attack dpr/pr region small gain
32	Ukraine responded to the initial events in Donbass with force.	attack;battle/clash populated place (town/city)
33	On 14 April, acting Ukrainian President Oleksandr Turchynov announced an anti-terror operation against pro-Russian separatists, although it was short-lived.	deployment to area;exercise;fortify border:region
34	On 22 April, Turchynov ordered more military operations against pro-Russian militants.	express intent end economic aid;end economic cooperation accuse - end economic cooperation appeal mediation break off negotiations end economic aid;end economic cooperation points other dpr/pr attack;show of force airspace 1s 10s USA USA disapprove dpr/pr
35	Despite publicly denying an interest in intervening in Donbass, Russia increased its troop presence along Ukraine’s southern border and began another series of military exercises on 23 April, raising concerns that it might mount a full-fledged military intervention in Donbass if Ukraine appeared to be winning the conflict.	deployment to area;fortify;join ongoing war populated place (town/city)
36	Russia and Ukraine were involved in a simultaneous dispute over the latter’s natural gas debt to the former.	invasion/occupation battle/clash populated place (town/city) small gain Trilateral Contact Group on Ukraine Trilateral Contact Group on Ukraine mediation dpr/pr express intent - dpr/pr cease fire
39	In May, the European Union (EU) Energy Commissioner began talks with Russia and Ukraine in an attempt to sort out a repayment plan that would keep the gas from being cut off.	economic cooperation accept sign formal agreement continuation of previous fighting dpr/pr region dpr/pr invasion/occupation point other small gain
41	On 15 June, talks over Ukraine’s natural gas debt broke down.	
42	Russia cut the natural gas pipeline to Ukraine the following day.	
44	On 17 July, pro-Russian militants mistakenly shot down Malaysia Airlines Flight 17, a passenger plane that was flying over Donbass, with a Russian-made Buk anti-aircraft missile.	
45	garnered significant international media attention and engendered widespread condemnation and outrage but did not slow the pace of fighting in the region.	
46	In August, after a Ukrainian counter-offensive regained control of several cities and villages in Donetsk and Luhansk, Russian troops intervened openly in the conflict, sending tanks and missiles across the Ukrainian border.	
47	The Organization for Security and Co-operation in Europe (OSCE) established a Trilateral Contact Group with Ukraine and Russia in June, initiating a mediation effort between the two sides.	
49	The OSCE brokered a ceasefire, the Minsk Protocol, between all sides on 5 September.	
50	The ceasefire failed to hold, and the fighting continued largely unabated through 2014, albeit at a lower level than before Minsk I.	
51	On 30 October, Russia and Ukraine agreed to a natural gas supply deal.	
52	Fighting escalated to pre-Minsk I levels again in January 2015.	
53	Pro-Russian rebels took control of the Donetsk airport on 15 January, signaling the full collapse of the Minsk Protocol.	

S	ICB	ICBe
54	Around this time, DPR leader Alexander Zakharchenko said that he had no interest in peace talks and pledged to begin trying to move the front line.	attack 🇺🇦 🏙️ populated place (town/city) small gain
55	In February 2015, a renewed round of talks occurred, this time initiated and led by German Chancellor Angela Merkel and French President Francois Hollande.	reject 🇺🇦 - 🇮🇪 deployment to area 🇺🇦 🏙️ 🏴󠁧󠁢󠁳󠁣󠁥󠁰 populated place (town/city) dpr/lpr reject 🇺🇦 - 🇫🇷 meeting; settle dispute dpr/lpr
57	On 6 February, Merkel and Hollande met privately with Putin for several hours, convincing him to return to the table.	🇫🇷 🇩🇪 mediation dpr/lpr; 🇺🇦 🇮🇹
58	The mediation effort officially began the following day, when Russian, Ukrainian, and separatist leaders met for negotiations hosted by the OSCE. France and Germany threatened new sanctions if a deal wasn't reached, and the OSCE promised to monitor the implementation of an agreement if one was reached.	🇫🇷 🇩🇪 🇮🇹 Trilateral Contact Group on Ukraine mediation 🇫🇷 🇩🇪 meeting 🇫🇷 🇩🇪 threaten 🇺🇦 ; 🇺🇦 ; 🇮🇹 🇩🇪 end economic cooperation 🇺🇦 ; 🇮🇹
59	The mediation effort resulted in a second ceasefire agreement between all sides, commonly known as Minsk II, on 12 February.	🇫🇷 🇩🇪 ultimatum 🇺🇦 does not happen - 🇺🇦 🇩🇪 end economic cooperation 🇺🇦 - C- will happen dpr/lpr; 🇺🇦 settle dispute cease fire 🇺🇦 region Trilateral Contact Group on Ukraine promise 🇺🇦 ; 🇮🇹 ; 🇩🇪 Trilateral Contact Group on Ukraine mediation 🇺🇦 ; 🇮🇹 ; 🇩🇪
61	Fighting mostly ceased after the signing of this agreement, but some clashes continued for a short time afterward in the city of Debaltseve, ending after rebels retook the city on 18 February.	dpr/lpr; 🇺🇦 express intent 🇺🇦 ; 🇩🇪 : 🇺🇦 - 🇺🇦 cease fire dpr/lpr; 🇺🇦 region 🇫🇷 🇩🇪 Trilateral Contact Group on Ukraine accept 🇺🇦 ; 🇮🇹 ; 🇩🇪 Trilateral Contact Group on Ukraine sign formal agreement 🇺🇦 ; 🇮🇹 ; 🇩🇪
62	Russian military advisors coordinated the assault on Debaltseve, and U.S. sources were confident that the shelling and rocket attacks in the area came from the Russian military.	🇺🇸 invasion/occupation 🇺🇦 ; 🏙️ 🏙️ 🏙️ population place (town/city) small gain retreat 🇺🇦 ; 🇺🇦 ; 🇺🇦 populated place (town/city) small loss
63	Ukraine's retreat from Debaltseve under fire terminated the crisis for both Ukraine and Russia.	military cooperation;unspecified cooperation dpr/lpr retreat 🇺🇦 ; 🇺🇦 ; 🇺🇦 populated place (town/city) small loss 🇺🇸 end of crisis 🇺🇸 end economic cooperation 🇺🇦
64	In response to the events in Crimea, the U.S. advised Ukraine to not engage Russia militarily but also imposed economic sanctions on Russia.	🇺🇸 disapprove 🇺🇦
66	In addition, the U.S. provided funds, military training, and military equipment - not including weapons - to Ukraine during the crisis.	
68	On 27 March 2014, the UN General Assembly approved a resolution condemning the Russian annexation of Crimea.	
69	The UNSC adopted a resolution on 21 July 2014 condemning the downing of the Malaysia Airlines flight, and another resolution on 17 February 2015 endorsing Minsk II.	赞扬 🇺🇳 - 🇺🇦 🇩🇪 Trilateral Contact Group on Ukraine deployment to area 🇺🇦 ; 🇮🇹 ; 🇩🇪
74	In addition to its role as mediator, the OSCE deployed an observer group that monitored compliance with both Minsk ceasefire agreements and facilitated dialogue between local communities in eastern Ukraine, including between local residents and internally-displaced persons.	end economic cooperation 🇺🇦
75	In addition to its role in the natural gas dispute between Ukraine and Russia, the EU imposed several rounds of economic sanctions on Russia, first in March 2014 and then again in July and September 2014.	G8 break off negotiations;end unspecified cooperation
76	The G8 suspended Russia's membership on 24 March 2014.	praise 🇺🇳 - 🇺🇦 🇩🇪
79	On 1 April 2014, NATO suspended civil and military cooperation with Russia.	break off negotiations;end military cooperation;end unspecified cooperation;terminate treaty 🇺🇳
80	NATO also participated in general capacity-building in Ukraine, issued statements on the situation in Ukraine, and conducted limited military exercises, generally viewed as a means of reassuring local allies.	military cooperation exercise 🇺🇦

4.2 Table D2: Stratified Sentence Examples

Figure 8: Stratified Sentence Examples

name	value	crisno ICB	ICBe
act_cooperative	end protest	243 The perceived threat to its regime having been overcome, Chad's crisis ended the following day.	end of crisis;victory - assert autonomy against 🇨🇩
act_cooperative	end riot	45 The crisis ended for Austria, Czechoslovakia, and Italy on 31 July, by which time the Austrian militia had completed the suppression of Nazi uprisings that had belatedly broken out in the provinces.	end of crisis - end riot
act_cooperative	end strike	294 On 25 September the insurgents were defeated and factories and businesses reopened in Nicaragua, terminating its first crisis.	end of crisis - end protest;end strike
act_cooperative	evacuate	475 At this point, North Korean troops were ordered to a semi-wartime alert, and South Korea ordered the evacuation of over 10,000 citizens living close to the DMZ. On 22 August, North Korea deployed submarines and mobilized artillery units along the border.	evacuate 🇰🇵
act_cooperative	institutions change	403 Instead it presented a plan for a decentralized republic, based on several regional governments and a central government in Sarajevo, responsible for foreign policy, defense, and trade.	offer - without conditions - settle dispute
act_cooperative	leadership change	300 The crisis ended for Rhodesia on 31 May with the change of government: that day Ian Smith handed over the reins of government to Bishop Abel Muzorewa.	end of crisis - leadership change
act_cooperative	provide rights	374 And on 4 March Amal, under Syria's pressure, freed 600 PLO prisoners.	provide rights;reduce human rights violation
act_cooperative	reduce human rights violation	393 A UN resolution three days later demanded their release.	demand 🇸🇾 - provide rights;reduce human rights violation
act_cooperative	reduce mass killing	464 The Libyan foreign minister, Moussa Koussa, declared a ceasefire later that day, framing it as a response to the UN resolution.	express intent 🇩🇿 - provide rights;reduce human rights violation;reduce mass killing
act_cooperative	reduce terrorism	418 Israel demanded that Lebanon enforce its sovereignty and prevent Hezbollah attacks against Israel from Lebanon's territory.	demand 🇮🇱 - reduce terrorism
act_deescalate	end exercise	363 U.S. naval maneuvers ended on 27 March, four days ahead of schedule.	end exercise —;—;— body of water;line other 10ks
act_deescalate	end weapons test	448 The crisis ended on 4 December 2007 when the U.S. released an intelligence report that stated that Iran was not seeking to produce nuclear weapons.	end of crisis - end weapons test 📣
act_deescalate	lower alert	220 Jordan ended the state of alert on the 15th, terminating the crisis for both countries.	end of crisis
act_escalate	deployment to area	378 To that end, 3,000 Indian soldiers arrived in Jaffna on 30 July to supervise the disarming of Tamil militants.	military cooperation deployment to area Tamil people
act_escalate	exercise	384 China deployed additional units to Spratly reefs in May; and they held a military exercise in June, reportedly simulating a tactical nuclear attack.	deployment to area;exercise 🚧;—;💪;📦;🌐 points other
act_escalate	fortify	387 The armed forces of both states were strengthened in November and later by a spillover from a long-standing hostility and rivalry between Syria and Iraq: the former supported Senegal, the latter, Mauritania.	general political support:military cooperation 🇷🇪
act_uncooperative assassination		28 On 27 August Tellini and three assistants were murdered by unknown assailants at Kakavia near the Greek/Albanian frontier within Greek territory.	assassination
act_uncooperative coup		314 Not only did Libya's leader declare that the freedom of the Libyan people was threatened so long as U.S. forces remained on Egyptian territory, he also unequivocally proclaimed Libya's "alliance with the Egyptian people and army in order to topple treason in Egypt" and urged a jihad (holy war) by all Muslims against the Egyptian regime.	demand 🇪🇬 - withdraw behind border;withdraw from area 🇲🇻
act_uncooperative human rights violation		223 The crisis trigger for Turkey was an attack by the Greek-Cypriot National Guard against two Turkish-Cypriot villages on 15 November 1967.	start of crisis - attack 🇮🇹;💪;📦 populated place (town/city)
act_uncooperative mass killing		395 Heavy fighting in April and May led to the killing of an estimated 3,000-5,000 Sierra Leone civilians and Liberian refugees by the NPFL—which denied any involvement.	National Patriotic Front of Liberia reject 🇸🇱
act_uncooperative protest		102 Disturbances occurred in factories, with communist attempts to take over workshop committees.	protest
act_uncooperative restrict rights		276 Botswana responded by declaring the 30-kilometer border with Rhodesia a protected area, imposing a curfew, and appealing to the UN Security Council on 21 December.	restrict rights

name	value	crisno ICB	ICBe
act_uncooperative	riot	304 While there was some minor Libyan troop activity in the north that began on the 13th, and Libyan support for a secessionist movement in southern Chad, its major response did not come until 25 June, following another inconclusive reconciliation conference, meeting in Geneva, Switzerland, from 26-27 May.	general political support mobilization region
act_uncooperative	strike	102 In February 1945 unrest steadily mounted, with violent criticisms in the Soviet media	protest;strike
act_uncooperative	terrorism	386 On 5 January the USSR, Libya's patron and arms supplier for a decade, accused the U.S. of "state terrorism" and "military adventurism." That day, too, only a U.K. veto saved the U.S. from an embarrassing European Community statement that failed to support the U.S. version of events.	accuse terrorism
interact_decreasecoop	break off negotiations	185 Soon after the end of World War II in Europe the U.S., the U.K., and France became parties to an uneasy agreement with the USSR regarding the administration of Germany and its capital, Berlin: the Potsdam Agreement of 2 August 1945 partitioned Berlin (and Germany) into four zones of occupation: an American, British, Canadian, and French zone, was to serve as an overall supervisory body. Acute crises between the Western powers and the Soviet Union occurred in 1948-49 and 1958-59 (see Cases #14 and #15). The first was the Berlin Blockade. (The East German Uprising (see Case #14) in October 1960 the Soviet leader Khrushchev, after canceling the Paris summit meeting with the U.S. Eisenhower over the Berlin 2nd anniversary set by end of 1961 as the deadline for the signing of a German peace treaty, in the absence of which the USSR would sign a separate peace treaty with East Germany.)	does not happen -
interact_decreasecoop	end access	444 As a result of tensions, Rwanda closed her border with the DRC. On 22 June, Kabila followed through and sent an estimated 10,000 troops to reinforce the eastern frontier.	end access;end unspecified cooperation points other
interact_decreasecoop	end economic aid	197 The International Monetary Fund then withdrew its offer of proposed credit.	
interact_decreasecoop	end economic cooperation	307 During the same period, Zaire sent a message to Zambia's president threatening to take nonmilitary measures if Kaunda did nothing to stop ZIPRA infiltration into Rhodesia-Zimbabwe.	does not happen -
interact_decreasecoop	end humanitarian aid	450 Humanitarian assistance from South Korea was suspended, among nine countries (Australia, Vietnam, Mongolia, Singapore, Costa Rica, and North Korea) assets following U.N. resolution 1695.	
interact_decreasecoop	end intelligence cooperation	224 This demand was refused, with North Korea claiming that the Pueblo was spying in its territorial waters.	accuse end intelligence cooperation deployment to area
interact_decreasecoop	end military cooperation	318 In a related incident, Senegal, The Gambia's long-time protector-de facto since the latter's independence in 1965, formally since their mutual defense agreement in 1976—severed diplomatic relations with Libya on 14 July 1980: President Senghor accused Libya of training a North African army to overthrow him and the governments of Chad, Mali, Niger, and Senegal in order to assert Libya's dominance over equatorial Africa.	
interact_decreasecoop	end unspecified aid	284 Indonesia, the Philippines, Malaysia, and Thailand condemned the Vietnam invasion of Cambodia in December 1978 and halted aid to Vietnam, as did Australia, Britain, Denmark, and Japan.	
interact_decreasecoop	end unspecified cooperation	115 His closing speech on 3 July before his dramatic exit from the conference articulated this dramatic change: he declared that the United States had to withdraw Europe into hostile camps; and he declared that Moscow would no longer cooperate with the Marshall Plan.	
interact_decreasecoop	expel	441 From 22 December, it restarted its plutonium production facilities and 5 days later it expelled the IAEA inspectors.	
interact_decreasecoop	imprison	459 Over the following two days, North Korea rejected further American food aid, despite continuing need, and detained two American journalists.	
interact_decreasecoop	leave alliance	47 France feared that such a leave action might provoke talk of a new recently formed anti-German Stresa Front and realign with Germany.	
interact_decreasecoop	military aid	112 The Greek civil war ended on 10 July 1949 when Tito announced the closing of Yugoslavia's border to Greek guerrillas.	
interact_decreasecoop	political succession	261 Other African states and North Korea, too, granted recognition to SAHRAWI, Morocco and Mauritania responded by severing relations with Algeria on the 7th.	
interact_decreasecoop	propaganda	461 That same day, South Korea also demanded an apology from North Korea for the sinking and沉没 of a ship in a situation of "psychological warfare" tactics aimed at North Korea.	
interact_decreasecoop	terminate treaty	469 On 11 March, North Korea verbally nullified the 1953 Korean War Armistice Agreement between itself and South Korea.	
interact_decreasecoop	violate terms of treaty	391 That same commitment was expressed during a brief January 1964 crisis triggered by the raising of the U.S. flag in the Canal Zone by U.S. students, in violation of a December 1963 banning of both states' flags at Canal Zone schools.	
interact_decreasecoop	withdraw diplomats	301 After the assassination of the YAR's president in June 1978 there was a sharp rise in tension between the two states, and relations with the PDRY were severed. As a result Amanullah sought negotiations for a cease-fire, which began in mid-June.	
interact_deescalate	cease fire	269 Soon after the forces of both Iraq and Syria withdrew from the border to their original positions.	
interact_deescalate	de-mobilization	424 A peace deal originally drafted by the US and Rwanda, and endorsed by the OAU, was imposed to the countries by the Congolese president.	
interact_deescalate	declaration of peace	14 And Foreign Affairs Commissar Chicherin informed his Persian counterpart, Prince Firuz, that Soviet forces had been ordered to withdraw from Persia and that Russia wanted friendly relations with the Teheran regime.	
interact_deescalate	decolonize	196 On 30 October U Thant began talks in Havana, and Kennedy agreed to lift the quarantine for the duration of the talks.	
interact_deescalate	end blockade	404 A PNG offer of greater autonomy was rejected by the BRA, which relied on support from the Solomon Islands, an independent member of the Commonwealth since 1978.	
interact_deescalate	reduce control over	255 Nevertheless, Israeli intelligence, as late as 3 October 1973, perceived the outbreak of war to be very unlikely.	
interact_deescalate	remove fortify	238 As a result the Palestinian guerrillas were forced to leave Jordan, and they subsequently built strongholds in southern Lebanon.	
interact_deescalate	retreat	67 The Nationalists' Catalan campaign ended on 9 February in total triumph.	
interact_deescalate	surrender	405 On 25 December Myanmarese troops withdrew from Sleeping Dog Hill, terminating this crisis between two Southeast Asian neighbors.	Nationalist faction victory - Nationalist faction annex;assert political control over Republican faction (Spanish Civil War)
interact_deescalate	withdraw behind border	129 Pakistan responded with troops and aircraft and succeeded in recapturing the Afghan forces across the border on 3 October. This marked the termination date of Pakistan's crisis.	
interact_deescalate	withdraw from area	405 On 25 December Myanmarese troops withdrew from Sleeping Dog Hill, terminating this crisis between two Southeast Asian neighbors.	

name	value	crisno ICB	ICBe
interact_deescalate	withdraw from war	104 The crisis ended without violence, when Yugoslavia withdrew its troops on 11 June 1945, two days after it yielded to U.K.-U.S. demands.	end of crisis - decolonize;withdraw from area withdraw from area [country] [region] coastline:point other;populated place (town/city)
interact_escalate	annex	416 The two states were concerned with establishing their rights to fishing, tourism and mineral exploitation.	desire;policy;territory - annex [body of water,border;points other small gain]
interact_escalate	assert autonomy against	242 On 25 March a crisis for Bangladesh	start of crisis - assert autonomy against [region]
interact_escalate	assert political control over	33 However, Juan Sacasa, the Liberal Vice President under Chamorro who had fled Nicaragua, returned on 2 December, was proclaimed President and subsequently his party was recognized by Mexico on 7 December.	general political support;unspecified cooperation
interact_escalate	attack	153 On 13 September 1956 Israeli forces blew up a petrol station in the Jordanian village of Qaraqosh.	attack [populated place (town/city)]
interact_escalate	battle/clash	466 Intermittent clashes continued after the crisis terminated.	battle/clash [region]
interact_escalate	blockade	322 The two contestants closed their border, moved their forces, and suspended commercial flights.	end unspecified cooperation blockade;mobilization;raise in alert [border]
interact_escalate	bombard	225 In early 1965, too, the USSR and China began to provide assistance and military equipment to Hanoi.	economic cooperation;military cooperation attack;bombard [border]
interact_escalate	border violation	371 The two long-standing adversaries accused each other of initiating the crisis on 5 January 1987 by attacking the Chinese town of Lang Son in the Tuyen District of Ha Tuyen Province of Vietnam, claimed Hanoi, in Yunnan Province of China, asserted Lang Son.	start of crisis - battle/clash [border;region]
interact_escalate	continuation of previous fighting	35 When the deadline went unheeded hostilities resumed, and the Chinese were forced to evacuate the city on the 11th.	attack [populated place (town/city)]
interact_escalate	declaration of war	471 A set off a conflict between Ukrainian security forces and pro-Russian militias in Donbass, supported by Russian arms and widely supposed to have included Russian military members.	declaration of war dpr/pr region
interact_escalate	invasion/occupation	216 On 25 August India sent several thousand troops across the 1949 Ceasefire Line to capture control of the area through which the infiltrators came and triggering a crisis for Pakistan.	start of crisis - line other;region small gain [1ks]
interact_escalate	join ongoing war	473 In August, after a Ukrainian counter-offensive regained control of several cities and villages in Donetsk and Luhansk, Russian troops intervened openly in the conflict, launching tanks and missiles across the Ukrainian border.	battle/clash [populated place (town/city) small gain]
interact_escalate	mobilization	173 On 15 February 1960 President Nasir received a message from the Soviet embassy in Cairo claiming Israel was bombing on its northern border, with an intention to attack Syria.	deployment to area;mobilization [border]
interact_escalate	no fly zone	464 The major responses from these states were multi-faceted, beginning with condemnations on 22-23 February, escalating quickly to a pre-emptive military strike, a no-fly zone, and culminating in mid-March with the most important general response: UN authorization and enforcement of a no-fly zone in order to protect Libyan civilians.	blockade;join ongoing war;no fly zone;show of force [airspace;points other]
interact_escalate	raise in alert	358 Egypt put its armed forces on alert, along with a military buildup on its border with Libya.	start of crisis - deployment to area;raise in alert [border]
interact_escalate	show of force	192 China responded to this hostile act by doing the following: withdrawing its ambassador from Washington; five Chinese naval ships, high-level official visits, and holding show-of-force naval maneuvers near Taiwan in the summer and autumn of 1995.	withdraw diplomats [USA]
interact_escalate	weapons test	440 Although there was never any strong evidence that explicitly linked Iraq to support for Al Qaeda or the 11 September attacks, Iraq was seriously implicated in the 11 September attacks, starting early as 15 September 2001, when a U.S. war council met at Camp David.	fear - attack [USA]
interact_increasecoop ally		110 The major Soviet response came on 28 August, with a meeting in Moscow with leaders of both the Polish United Workers Party (PUPW) and the Peasant Party. Stalin reiterated the results of the Cominform in Poland, demanding that Mikolajczyk ally his party with the Polish Communists.	demand Peasant Party; - Peasant Party ally -
interact_increasecoop cede territory		80 On 21 August, southern Dobruja was transferred.	decolonize [region large loss]
interact_increasecoop discussion		455 Chad called this move a step in the right direction, but said that it required a stronger commitment from the West to stop destabilizing Chad before it would agree to resume relations.	praise - discussion [region]
interact_increasecoop economic cooperation		40 Five Japanese demands were presented to the Chinese and Great Soviet Encyclopedias, who claimed he was not to comply with three of these, dealing directly with the incident, but not with the two involving the anti-Japanese movement.	demand -
interact_increasecoop formal military alliance		47 France, Italy, and the U.K. met on 11-14 April to form the Stalingrad front against Germany.	meeting [USA]
interact_increasecoop political support		301 This was reflected in each part the profound impact of the Iranian revolution and a fear that Yemen would be the next target in a Soviet plan to dominate the region.	fear - assert political control over [region]
interact_increasecoop humanitarian aid		123 On 26 June 1948, the Western powers, on 26 June 1948, was to step up the airlift to Berlin, which began two months earlier, and to continue with the reconstitution of Germany as part of Western Europe.	humanitarian aid [Germany]
interact_increasecoop inspections		470 In response to the invitation from the Syrian government, the US and South Korea, on 19 March, Moon established a fact-finding mission on 21 March to investigate the allegations of chemical weapons usage.	accept - inspections [USA]
interact_increasecoop intelligence cooperation		224 In response to North Korea's commando raid, South Korea sought a security guarantee from the U.S.	appeal USA; - intelligence cooperation;military cooperation;mutual defense pact [USA]
interact_increasecoop join war on behalf		237 The U.S. response, on the 28th, was a decision by Nixon to send U.S. troops into Cambodia.	join war on behalf;military cooperation [USA]
interact_increasecoop mediation		49 When Hitler urged the three guarantor powers (Britain, France, and Italy) to take action, they had to decide whether to join Britain together with a threat to bring the issue to the League.	threaten - mediation [USA]
interact_increasecoop meeting		420 After three weeks of intense negotiations in New York between Minton and a senior official of North Korea, namely Minister Li Chang Chol, North Korea apologized on 29 December, expressing "deep regret" for the incursion and for the damage caused to the U.S. ship.	discussion;mediation;meeting [USA]
interact_increasecoop military cooperation		327 Moreover, in response to continuing Israeli bombing raids against Syrian positions and the PLO, and the subsequent Israeli invasion and victory, the U.S. froze the delivery of F-16 planes to Israel on 18 July; they were released on 11 August, 1982.	military cooperation military aid [USA]
interact_increasecoop mutual defense pact		75 Erdogan responded on the 26th by complying with the demands thereby ending its crisis.	deployment to area [USA; - points other small gain]
interact_increasecoop natural conclusion of diplomacy		138 On 30 May General Li Mi announced the formal dissolution of his Yuan Shikai anti-communist army and 30 June joined the Communist Party, announced in Burma that the program had been completed.	promise [China; - de-mobilization;surrender;withdraw from war [USA; - 10ks]
interact_increasecoop settle dispute		455 At the Jilin 17 meeting of the contact group, Sengen convinced Sudan to agree to restore diplomatic relations with Chad by arguing that the Dakar Agreement could not be implemented if relations between the two countries were severed.	accept [Sudan; - discussion;settle dispute [USA]
interact_increasecoop sign formal agreement		473 On 21 November 2013, Ukrainian president Petro Poroshenko signed a law of anti-government unrest - commonly known as "Euromaidan" - when he rejected a trade and partnership agreement proposed by the EU in favor of forging closer ties with Russia.	protest [Russia]
interact_increasecoop unspecified cooperation		37 It called for a restoration of the status quo ante and the resumption of diplomatic relations between the two states, and set up a commission of inquiry.	intelligence cooperation;unspecified cooperation [Russia]

name	value	crisno	ICBe
sayintkind accept		23 Together these two events had a positive impact: on 18 November 1921 the Albanian and Yugoslav representatives to the League accepted the border delimitation and pledged friendly relations.	settle dispute
sayintkind accuse		159 The USSR and Syria repeated their allegation at the UN General Assembly on 16 October, specifically, that Turkey, with the support of U.S. advisors, was planning to attack Syria after Turkey's general elections on 27 October.	accuse
sayintkind appeal		370 In this phase of the fighting, Algeria, Nigeria, and Zaire offered to mediate; and Niger called for an emergency OAU meeting to consider the crisis.	appeal
sayintkind demand		108 On the 30th the Council passed a modified resolution to that effect, which also requested the parties to inform the Council of the results.	demand
sayintkind disapprove		330 The USSR offered only verbal support to its client: Tass accused the U.S. of "terrorism." Acting through the Arab League and the Gulf Cooperation Council, all Arab states except Egypt and the Sudan criticized U.S. behavior.	accuse
sayintkind express intent		314 On the 27th, too, Egypt's defense minister de-escalated the tension by denying any intention to attack Libya and explaining the arrival of U.S. planes—for a 90-day joint U.S.-Egyptian training exercise.	reject
sayintkind offer		14 Nonetheless, after lengthy negotiations Persia and Russia signed a Treaty of Friendship on 26 February 1921 terminating the Persian Border crisis: the Soviets pledged not to intervene in Persia's affairs unless a third party did so.	end of crisis
sayintkind offer - without conditions		425 On 21 May, however, India softened its line by announcing a self-declared moratorium on further nuclear tests, and offered to negotiate a "no first-use" nuclear pact with Pakistan.	offer - without conditions
sayintkind praise		393 The terms for an interim cease-fire were codified and adopted by the UN Security Council on 2 March—Resolution 686.	praise
sayintkind promise		367 Banda responded on the 17th by announcing that he would no longer permit the MNR to maintain bases in Malawi and by proposing a joint security commission with Mozambique.	appeal;offer - without conditions
sayintkind reject		471 Around this time, DPR leader Alexander Zakharchenko said that he had no interest in peace talks and pledged to begin trying to move the front line.	reject
sayintkind threaten		385 On 2 June Iran, through its new commander-in-chief of the armed forces (and later, president), Rafsanjani, declared that there would be no compromise.	reject
sayintkind ultimatum		93 Hungary attempted to contact the Allies that day, and again on 10 October, when a provisional armistice was arranged in Moscow conditional on Hungary's joining the war against Germany.	offer
thinkkind become convinced		199 were perceived by Morocco to be partial to Algeria in the dispute.	become convinced
thinkkind defeat		336 The outcome was unqualified victory for the U.K. and humiliating defeat for Argentina.	defeat
thinkkind desire		74 In the hope of maintaining German guarantees, Foreign Minister Selter responded to the German-Soviet Non-Aggression Pact by offering congratulations to the German government and stating his conviction that Germany, according to its Non-Aggression Treaties with Estonia and the Soviet Union, had prepared the ground for ensuring Estonian security.	appeal
thinkkind discover fact		77 On 8 April 1940 a crisis was triggered for Norway when it received intelligence reports predicting a German invasion the next day.	become convinced;start of crisis
thinkkind end of crisis		307 Zambia's crisis ended on 31 January 1980 when its border with Zimbabwe was reopened, once the situation had stabilized.	end of crisis
thinkkind fear		331 The objectives of Operation Protea were to thwart Angola's plans to extend its radar missile air defense system southward, to cover the strategic town of Cunene, and to create a no-man's land along the northern side of the Namibian border in order to act as a buffer against SWAPO infiltration into northern Namibia.	preemption
thinkkind policy		324 Israel Air Force (IAF) plans for a preemptive strike were approved by the cabinet on 15 March, to be implemented before the November election lest Begin be replaced by a Shimon Peres-led Labor government which, it was assumed, would be unwilling to implement this decision.	preemption
thinkkind preemption		60 By the end of the first week of the crisis Schuschnigg had decided upon some action to ensure the Austrian government's mastery of its own house.	policy;preemption
thinkkind regime/government change		176 On 21 March the UN Secretary-General's Conciliation Committee on the Congo recommended a federal form of government to preserve the country's unity and integrity.	appeal
thinkkind start of crisis		238 A crisis for Syria and the U.S. was triggered on 15 September 1970 by King Hussein's announcement of a drastic change in his cabinet, which would now include military personnel.	start of crisis
thinkkind territory		347 On 27 January, he met with Prime Minister Botha, who then announced to the South African Parliament that he had ordered a complete SADF withdrawal from Angola on the 31st.	express intent
thinkkind victory		343 By the 28th all the major military objectives of the U.S.-led multinational force had been secured.	victory

4.3 Figure D3 Crisis Maps Cuban Missiles

Figure 9: Crisis Maps - Cuban Missiles

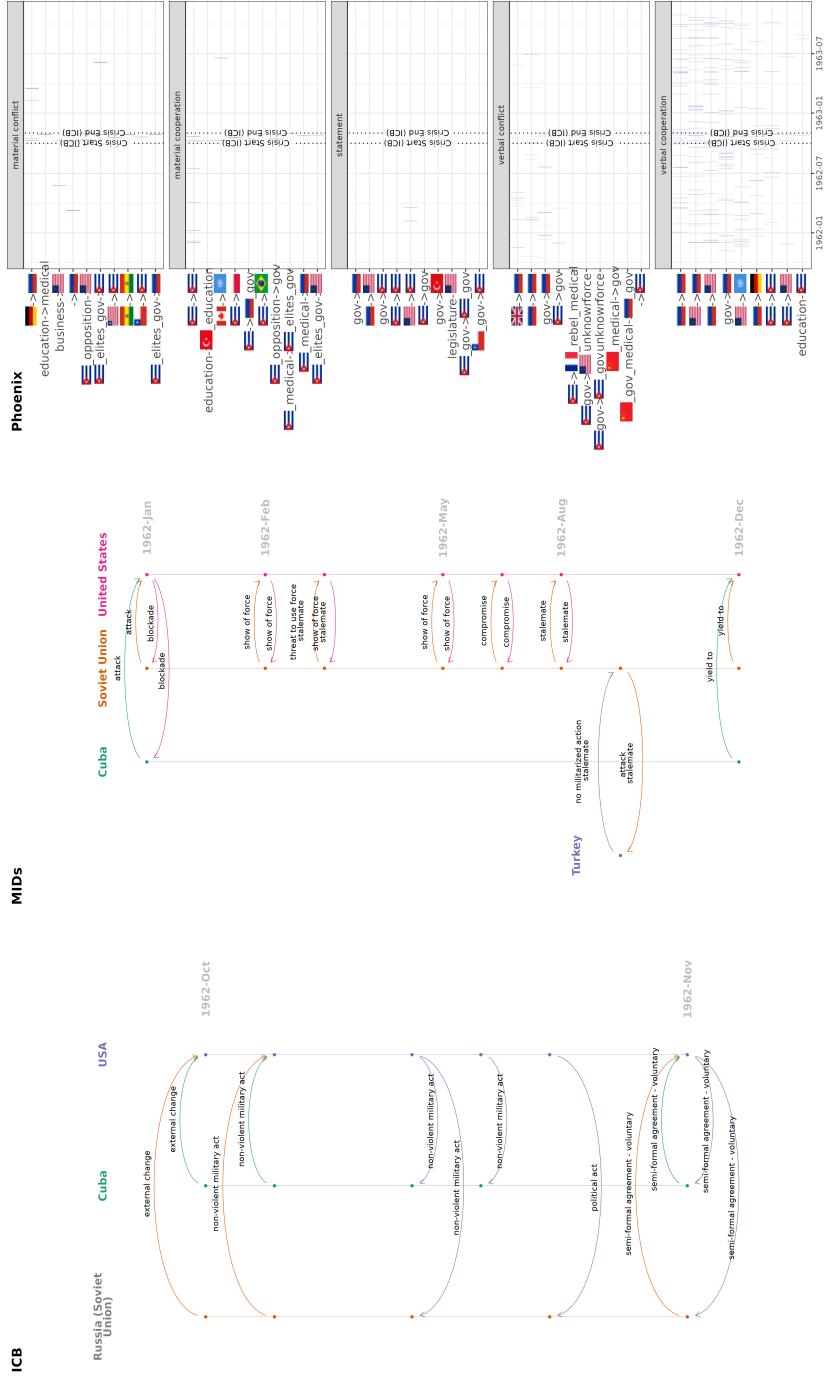


Figure 10: Crisis Maps - Cuban Missiles - Phoenix Disaggregated



4.4 Figure D4 Crisis Maps Crimea-Donbas

Figure 11: Crisis Maps - Crimea-Donbas

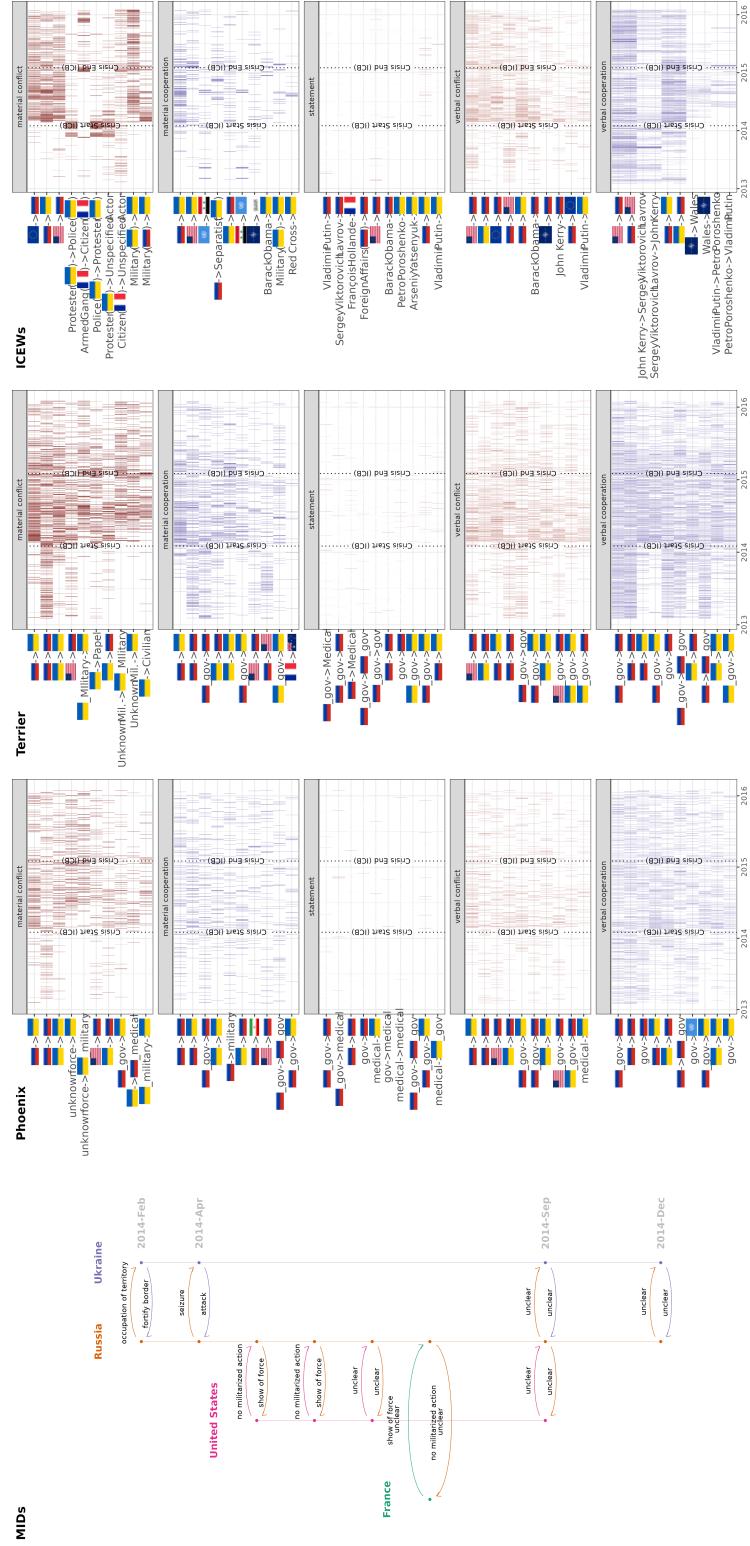


Figure 12: Crisis Maps - Crimea-Dombas Phoenix Disaggregated

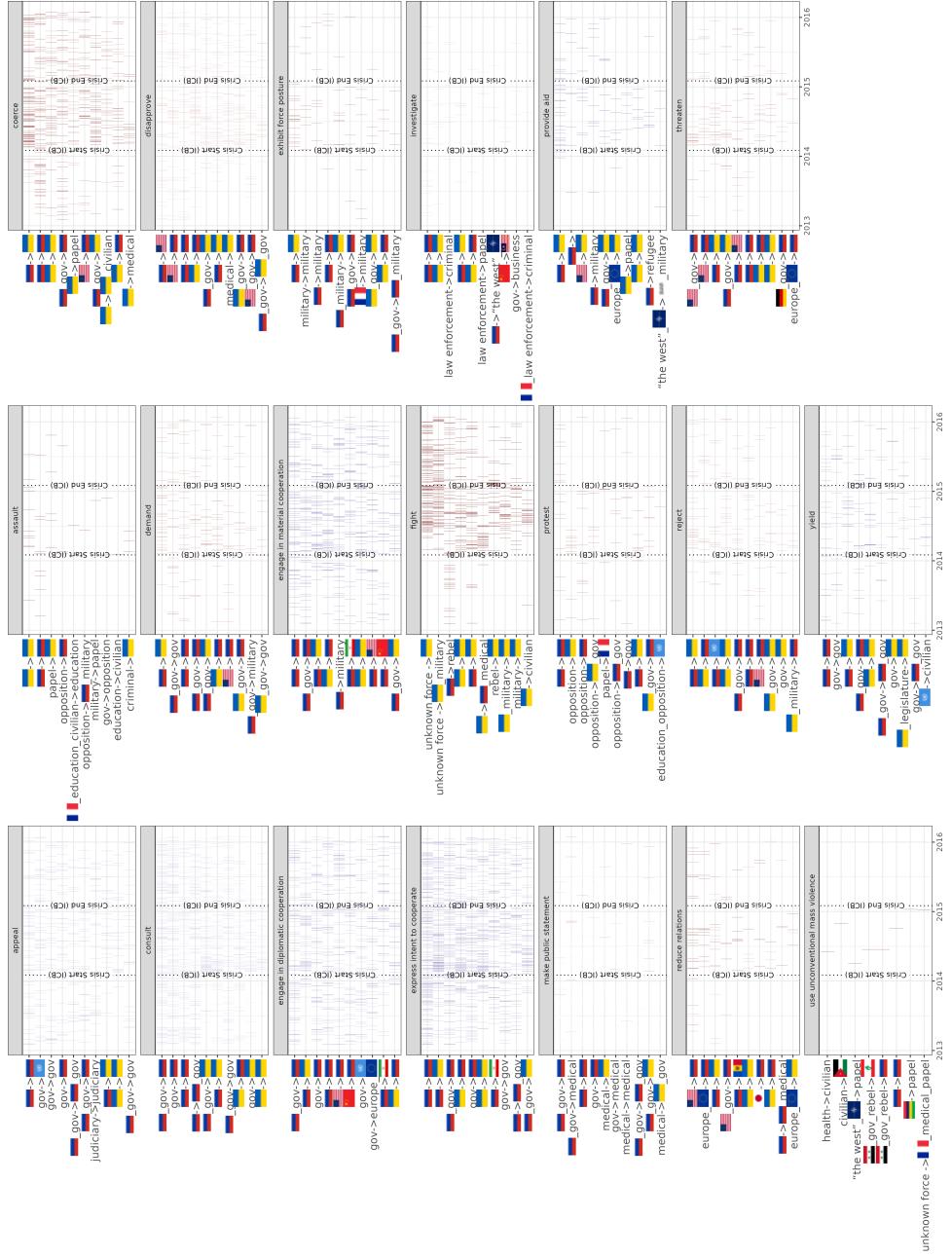


Figure 13: Crisis Maps - Crimea-Donbas Terrier Disaggregated

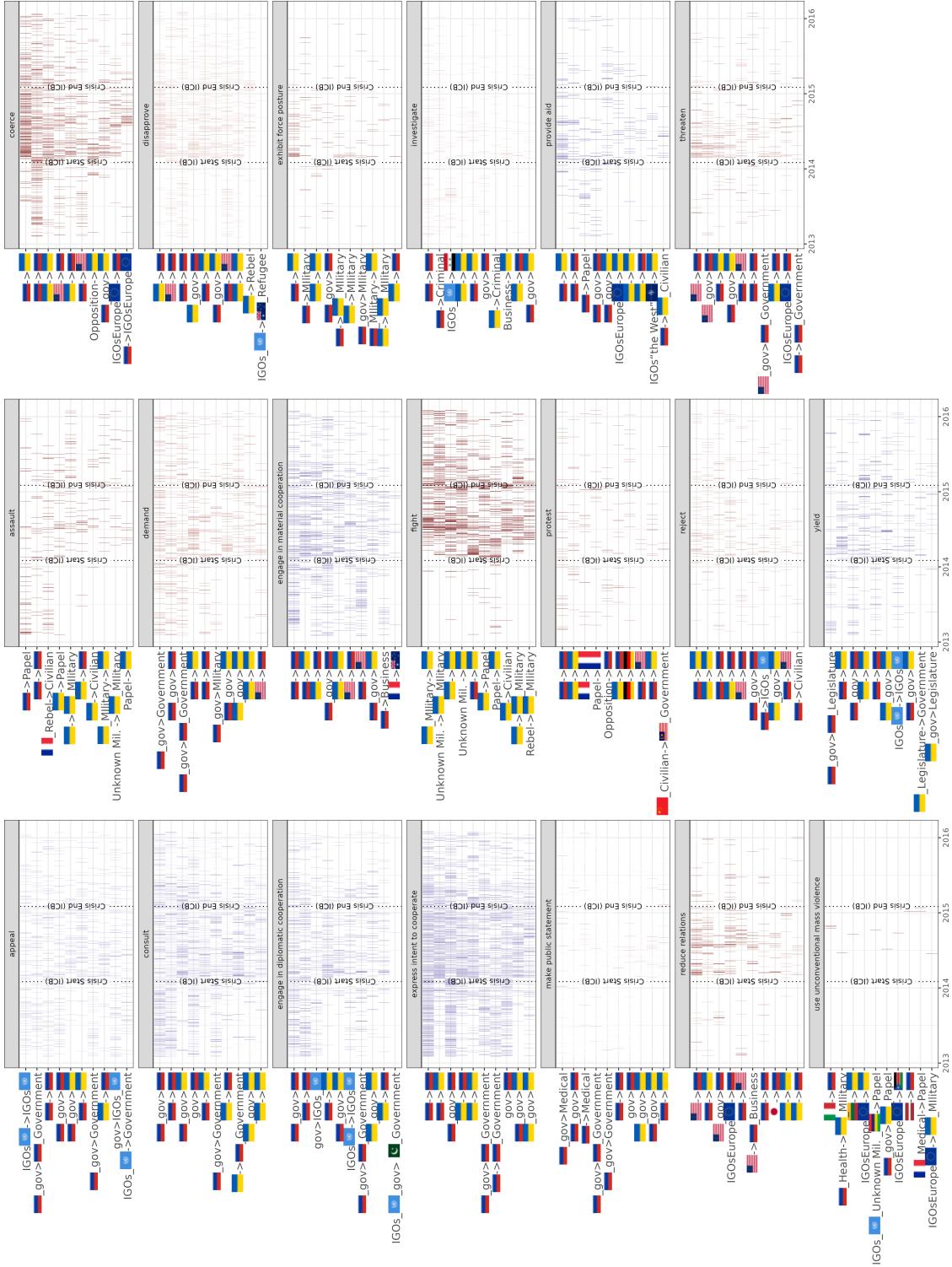
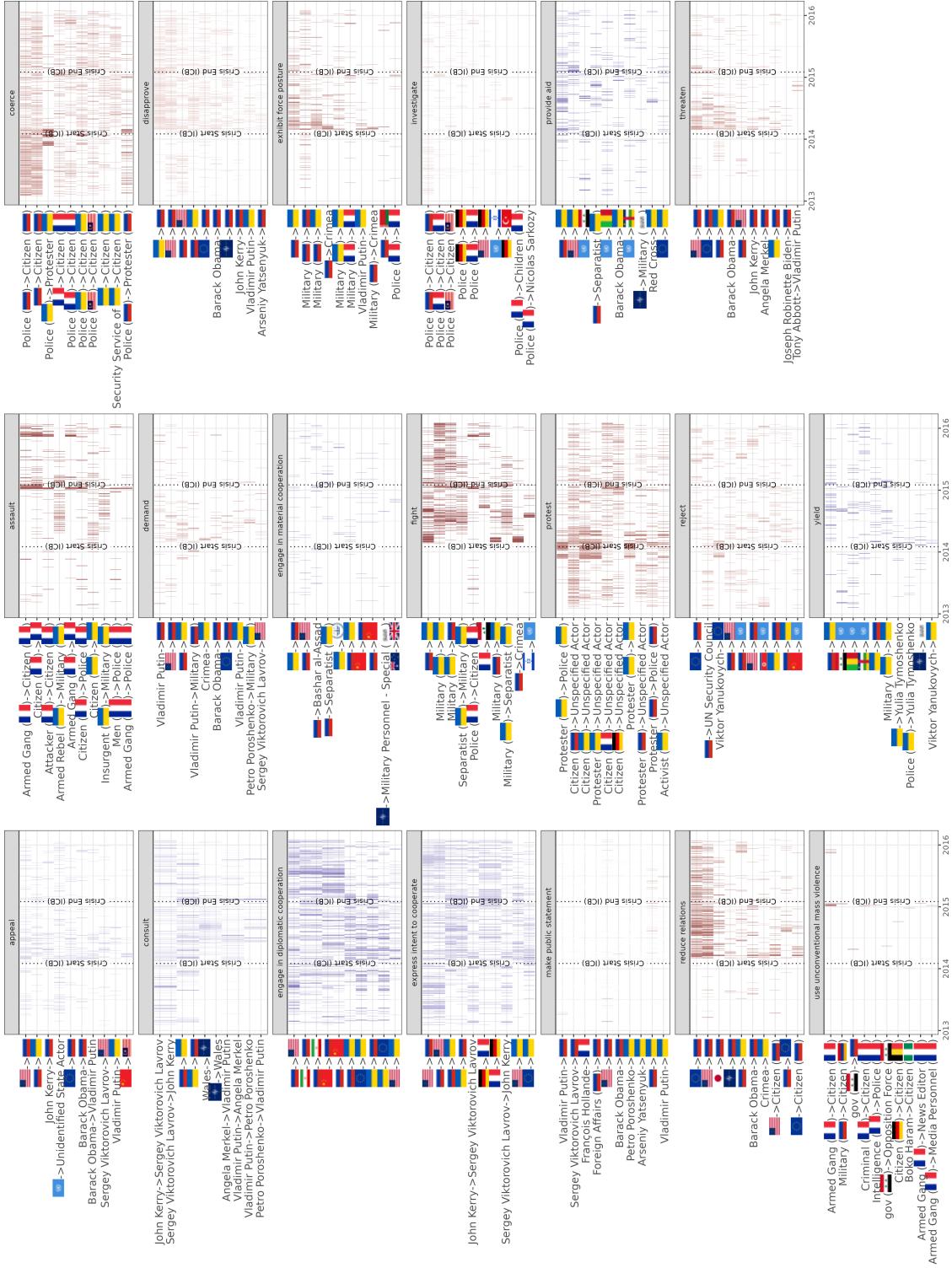


Figure 14: Crisis Maps - Crimea-Donbas ICEWs Disaggregated



5 References

- Clauset, Aaron, M. E. J. Newman, and Cristopher Moore. 2004. “Finding Community Structure in Very Large Networks.” *Physical Review E* 70 (6): 066111. <https://doi.org/10.1103/PhysRevE.70.066111>.
- Lewis, Mike, Yinhan Liu, Naman Goyal, Marjan Ghazvininejad, Abdelrahman Mohamed, Omer Levy, Ves Stoyanov, and Luke Zettlemoyer. 2019. “BART: Denoising Sequence-to-Sequence Pre-training for Natural Language Generation, Translation, and Comprehension.” arXiv. <https://doi.org/10.48550/arXiv.1910.13461>.
- Reimers, Nils, and Iryna Gurevych. 2019. “Sentence-BERT: Sentence Embeddings Using Siamese BERT-Networks.” <http://arxiv.org/abs/1908.10084>.
- . 2020. “Making Monolingual Sentence Embeddings Multilingual Using Knowledge Distillation.” <http://arxiv.org/abs/2004.09813>.
- Shleifer, Sam, and Alexander M. Rush. 2020. “Pre-Trained Summarization Distillation.” <http://arxiv.org/abs/2010.13002>.
- Song, Kaitao, Xu Tan, Tao Qin, Jianfeng Lu, and Tie-Yan Liu. n.d. “MPNet: Masked and Permuted Pre-training for Language Understanding,” 14.