



# **DIPLOMETRICS: MULTILATERAL TREATY INSTRUMENT WEIGHTS CODEBOOK**

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## GOALS OF THE PROJECT

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The purpose of this project was to develop a weighting system for multilateral treaty membership which measures the relative prominence each treaty deposited with the UN Secretary General in order to compare the importance of signing or ratifying treaties in each year for each country that can potentially sign each document. The weighted membership score will provide the ability to identify countries that are more or less embedded in specific treaties and measure the importance of relative issue areas. The weights will also be used to calculate the shared dyadic treaty affinity, the total weight of all shared treaties between two countries.

### CITATION

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## DATA COLLECTION PROCESS

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### DOMAIN

Weights were calculated for 590<sup>1</sup> treaties for each year from 1945 to 2013. The list of treaties for which weights have been calculated can be found in Appendix A. It is intended for use in conjunction with the Multinational Treaty Instruments Data described elsewhere (Jonathan Moyer, David Bohl, and Sara Turner 2015). The weights are calculated annually as an index value.

### IDENTIFYING CASES

The weights for international treaties were created to measure the relative prominence of international treaties across time. To calculate these weights, we employed a content analysis approach. We used the number of 'hits' from the full catalog search of HeinOnline, a law database, to calculate the weights (*Hein Online Law Database* 2014). 'Hits' is defined as the number of unique articles a treaty is mentioned in for each year. A higher weight indicates more salience or embeddedness within the international legal system (i.e. how much it is a specific instrument discussed or cited with legal journals) and does not necessarily mean that a treaty is better or worse than others in our database.

### CODING SYSTEM

Treaties were queried using a customized version of the title that removed the location and date of signing unless that was the only distinguishing aspect of the title. The resulting number of mentions in

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<sup>1</sup> The only treaty in our dataset that was not weighted was Treaty XIII-3.b, a treaty titled "Protocol", because our search model resulted in mostly false positives.

articles that were published in that year was considered the number of ‘hits’ for that year. The number of total articles in the Hein Online database was also gathered to account for inflation in the number of published articles across time<sup>2</sup>. After gathering the ‘hits’ for each treaty in each year, the number of total articles is used to deflate the number of mentions using 2006, the year with the most total treaty mentions, as a base year<sup>3</sup>.

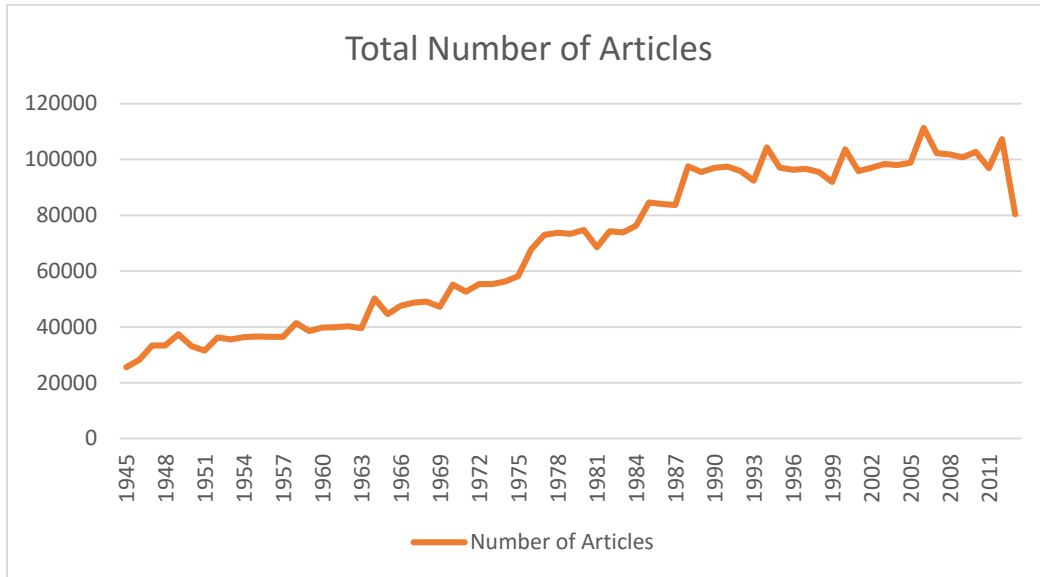


Figure 1: Number of Articles per Year

The three year moving average for these values is used as the final weight score. A minimum weight of .01 was given to any treaty that did not have a mention in a year where it existed. Nulls were used to indicate any year prior to the creation of a treaty or after its abrogation or expiration.

<sup>2</sup> Hein Online is continually adding retroactively to their database, meaning that articles are added that were published in previous years. To account for this change, we update the weights for all years each time there is an update.

<sup>3</sup> The drop in 2013 is due to a delay in articles being added to the database

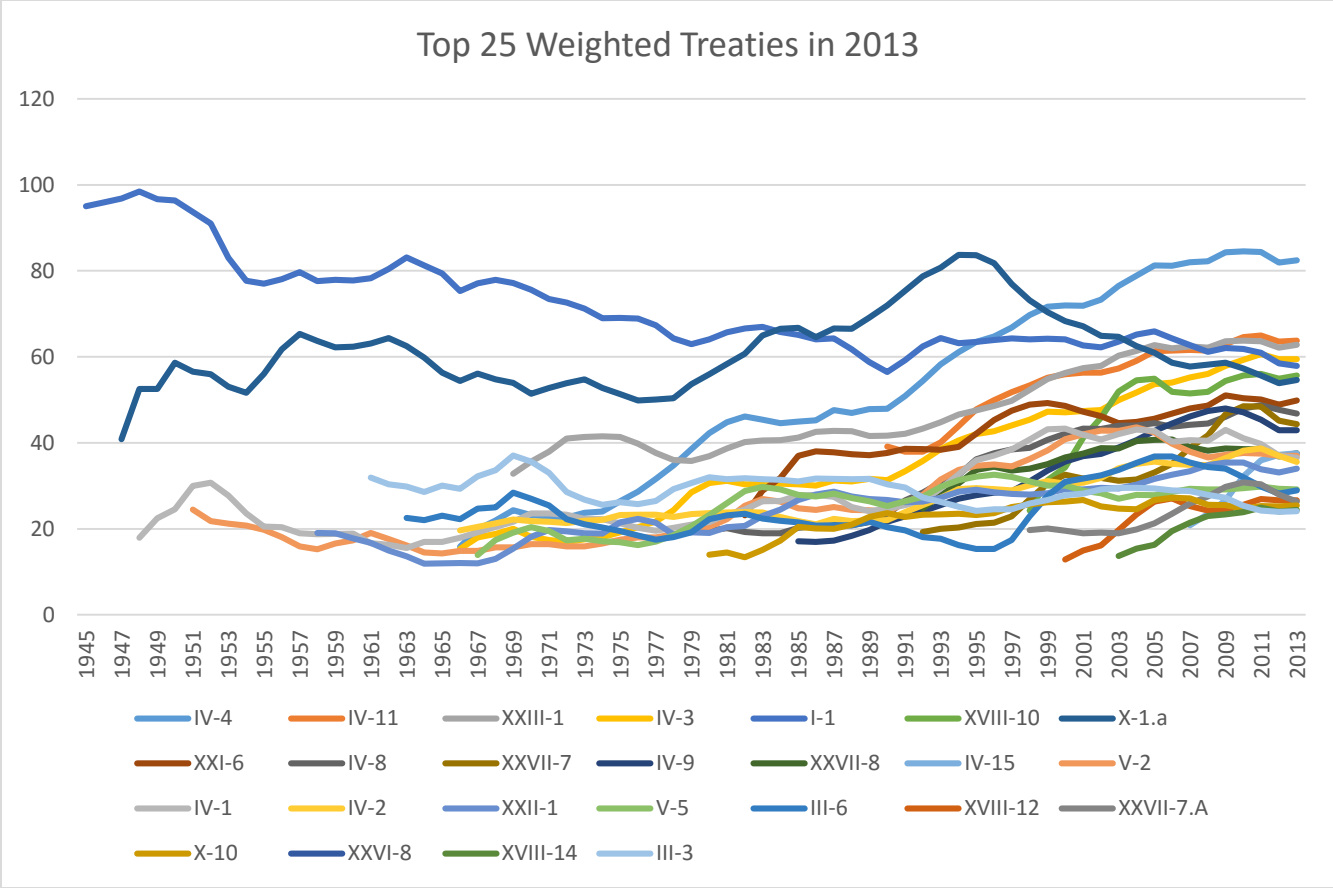


Figure 2: Top 25 Treaties

## VARIABLES

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Values are represented by treaty chapter/article and years. Values for the weights range from 0.01 to 98.45 observed upon the signing of the Charter of the UN. The mean treaty weight over time was 5.4. Nulls represent years in which the treaty was not in effect, and a value of .01 represents years in which the treaty existed but did not register any hits.

### COMPATIBILITY WITH OTHER DATASETS

This data set is designed specifically to be compatible with the Diplometrics Multilateral Treaty data collected as part of the Diplometrics project. It is intended to allow users to calculate shared weighted memberships in international organizations as a component in a measure of power developed elsewhere in the project.

# SUMMARY STATISTICS

Treaty weights range from a minimum of 0.01 to a maximum observed value of 98.45, the value of the United Nations Charter in 1948. The spikes in the median and 3<sup>rd</sup> quartile values between 1945 and 1946 is due to an increase in the number of treaties from seven, only three of which had any mentions, in 1945 to eighteen, nine of which had mentions, in 1946. The decline in weights starting in 1946 is due to the emergence of new treaties over time, reducing the median and mean. The mean for the data as a whole is 5.42 (SD: 9.22) and the median is 2.96 (Q1: .01, Q3: 5.64).

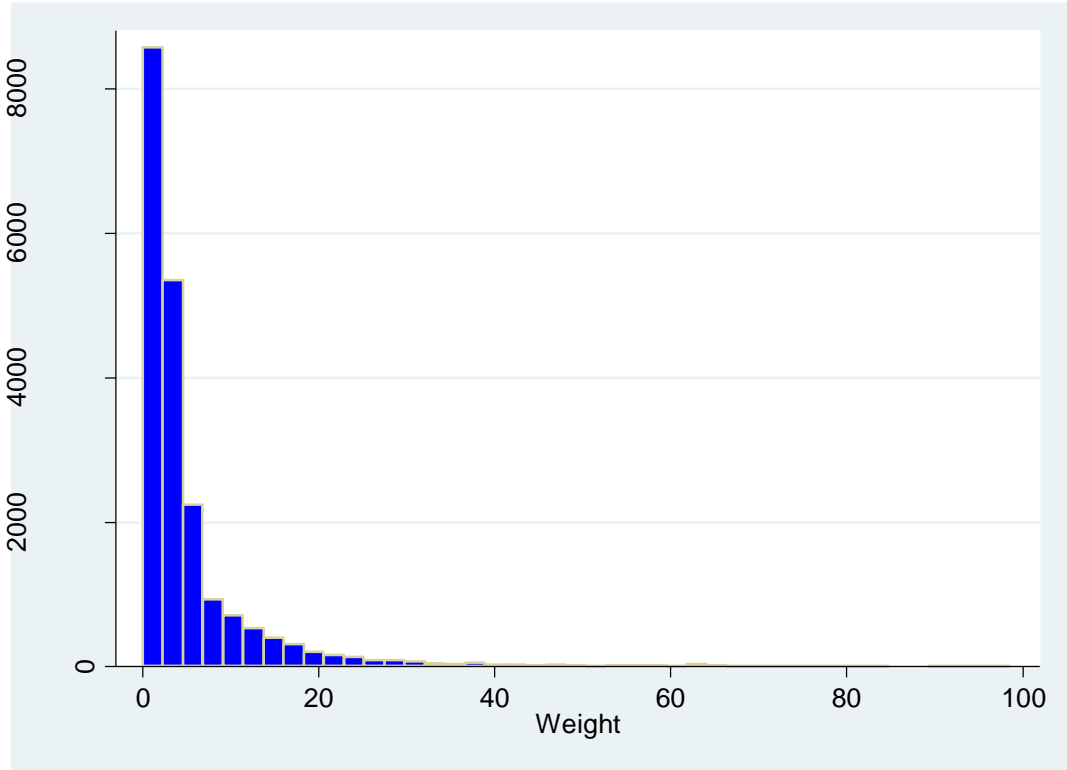


Figure 3: Treaty Weight Frequency

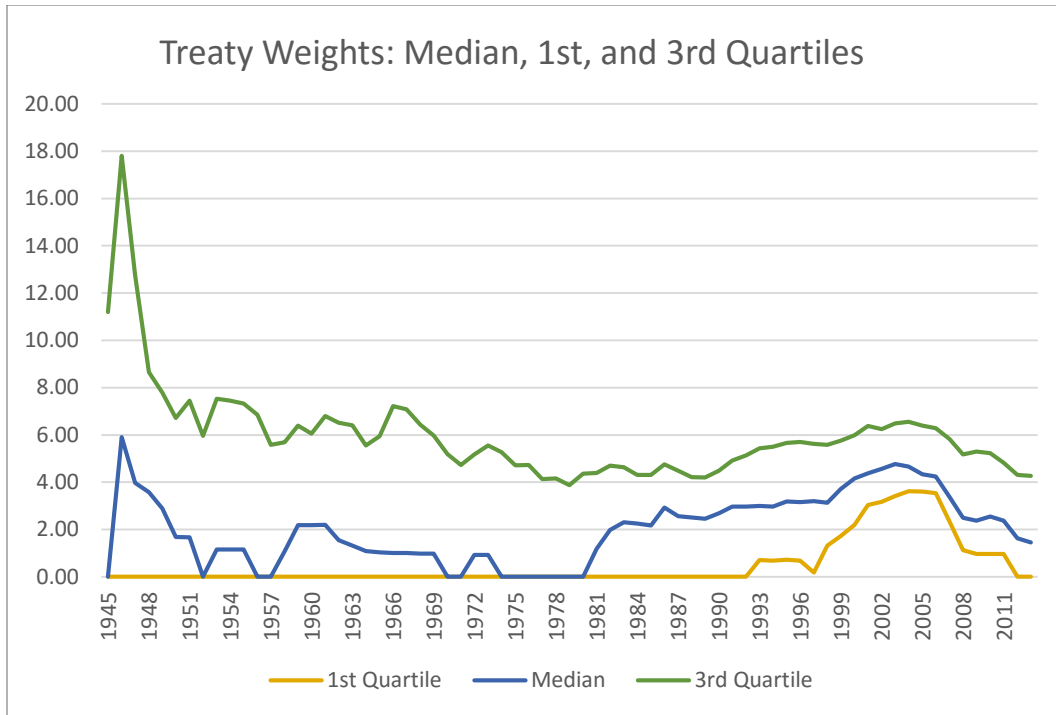


Figure 4: Treaty Weight Quartiles

## WORKS CITED IN CODEBOOK

*Hein Online Law Database*. 2014. William S. Hein & Co., Inc.

<http://home.heinonline.org/content/catalog-search/>.

Jonathan Moyer, David Bohl, and Sara Turner. 2015. "Multilateral Treaty Instruments Codebook."



## APPENDIXES:

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### TREATIES

I-1	IX-1.a	X-5	XI-B.16.130	XI-B.16.77	XI-E.3	XIX-37	XXV-1
I-2	IX-1.b	X-6	XI-B.16.131	XI-B.16.78	XII-1	XIX-38	XXV-2
I-3	IX-1.c	X-7	XI-B.16.132	XI-B.16.79	XII-1.a	XIX-39	XXV-2.A
I-4	IX-1.d	X-7.a	XI-B.16.133	XI-B.16.8	XII-1.b	XIX-4	XXV-2.B
I-5.a	IX-1.e	X-7.b	XI-B.16.13H	XI-B.16.80	XII-1.c	XIX-40	XXV-2.C
I-5.b	IX-1.f	X-8	XI-B.16.14	XI-B.16.81	XII-1.d	XIX-40.A	XXV-3
I-5.c	IX-1.g	X-8.a	XI-B.16.15	XI-B.16.82	XII-1.e	XIX-41.A	XXV-3.A
II-1	IX-1.h	X-8.b	XI-B.16.16	XI-B.16.83	XII-1.f	XIX-41.B	XXV-4
III-1	IX-2	X-9	XI-B.16.17	XI-B.16.84	XII-1.g	XIX-41.C	XXVI-1
III-10	IX-3	XI-A.1	XI-B.16.18	XI-B.16.85	XII-1.h	XIX-42	XXVI-2
III-11	IX-4	XI-A.10	XI-B.16.19	XI-B.16.86	XII-2	XIX-43	XXVI-2.A
III-12	IX-4.a	XI-A.11	XI-B.16.2	XI-B.16.87	XII-3	XIX-44	XXVI-2.B
III-13	V-1	XI-A.12	XI-B.16.20	XI-B.16.88	XII-4	XIX-45	XXVI-2.C
III-2	V-2	XI-A.13	XI-B.16.21	XI-B.16.89	XII-5	XIX-46	XXVI-2.D
III-2.1	V-3	XI-A.14	XI-B.16.22	XI-B.16.9	XII-6	XIX-47	XXVI-3
III-2.10	V-4	XI-A.15	XI-B.16.23	XI-B.16.90	XII-7	XIX-48	XXVI-4
III-2.11	V-5	XI-A.16	XI-B.16.24	XI-B.16.91	XII-8	XIX-49	XXVI-5
III-2.12	VI-1	XI-A.17	XI-B.16.25	XI-B.16.92	XIII-1	XIX-5	XXVI-6
III-2.12a	VI-11	XI-A.18	XI-B.16.26	XI-B.16.93	XIII-2	XIX-5.A	XXVI-7
III-2.12b	VI-12.a	XI-A.2	XI-B.16.27	XI-B.16.94	XIII-3.a	XIX-5.B	XXVI-8
III-2.13	VI-12.b	XI-A.3	XI-B.16.28	XI-B.16.95	XIV-1	XIX-5.C	XXVII-1
III-2.14	VI-13	XI-A.4	XI-B.16.29	XI-B.16.96	XIV-2	XIX-5.D	XXVII-1.A
III-2.15	VI-14	XI-A.5	XI-B.16.3	XI-B.16.97	XIV-3	XIX-6	XXVII-1.B
III-2.16	VI-15	XI-A.6	XI-B.16.30	XI-B.16.98	XIV-4	XIX-7	XXVII-1.C
III-2.17	VI-16	XI-A.7	XI-B.16.31	XI-B.16.99	XIV-5	XIX-8	XXVII-1.D
III-2.18	VI-17	XI-A.8	XI-B.16.32	XI-B.17	XIV-6	XIX-9	XXVII-1.E
III-2.2	VI-18	XI-A.9	XI-B.16.33	XI-B.18	XIV-7	XV-1	XXVII-1.F
III-2.2a	VI-19	XI-B.1	XI-B.16.34	XI-B.19	XIV-7.a	XV-2	XXVII-1.G
III-2.2b	VI-2	XI-B.10	XI-B.16.35	XI-B.2	XIV-7.b	XV-3	XXVII-1.H
III-2.3	VI-3	XI-B.11	XI-B.16.36	XI-B.20	XIV-7.c	XVI-1	XXVII-1.I
III-2.4	VI-5	XI-B.11.a	XI-B.16.37	XI-B.21	XIX-1	XVI-2	XXVII-1.J
III-2.5	VI-6.a	XI-B.11.b	XI-B.16.38	XI-B.22	XIX-10	XVI-3	XXVII-1.K
III-2.6	VI-6.b	XI-B.12	XI-B.16.39	XI-B.23	XIX-10.A	XVII-1	XXVII-1.L
III-2.7	VI-7	XI-B.13	XI-B.16.4	XI-B.24	XIX-10.B	XVIII-1	XXVII-10
III-2.7a	VI-8.a	XI-B.14	XI-B.16.40	XI-B.25	XIX-10.C	XVIII-10	XXVII-11
III-2.7b	VI-8.b	XI-B.14.a	XI-B.16.41	XI-B.26	XIX-10.D	XVIII-10.A	XXVII-12
III-2.7c	VI-9	XI-B.14.b	XI-B.16.42	XI-B.26.a	XIX-11	XVIII-10.B	XXVII-13
III-2.8	VII-1	XI-B.15	XI-B.16.43	XI-B.27	XIX-13	XVIII-11	XXVII-13.A
III-2.9	VII-10	XI-B.16	XI-B.16.44	XI-B.28	XIX-14	XVIII-12	XXVII-13.B

III-3	VII-11.a	XI-B.16.1	XI-B.16.45	XI-B.28.a	XIX-15	XVIII-12.A	XXVII-14
III-4	VII-11.b	XI-B.16.10	XI-B.16.46	XI-B.29	XIX-16	XVIII-12.B	XXVII-15
III-5	VII-2	XI-B.16.100	XI-B.16.47	XI-B.3	XIX-17	XVIII-12.C	XXVII-16
III-6	VII-3	XI-B.16.101	XI-B.16.48	XI-B.30	XIX-18	XVIII-13	XXVII-17
III-7	VII-4	XI-B.16.102	XI-B.16.49	XI-B.31	XIX-18.A	XVIII-14	XXVII-2
III-8	VII-5	XI-B.16.103	XI-B.16.5	XI-B.31.1	XIX-2	XVIII-15	XXVII-2.A
III-9	VII-6	XI-B.16.104	XI-B.16.50	XI-B.31.2	XIX-20	XVIII-2	XXVII-2.B
IV-1	VII-7	XI-B.16.105	XI-B.16.51	XI-B.32	XIX-21	XVIII-3	XXVII-2.C
IV-10	VII-8	XI-B.16.106	XI-B.16.52	XI-B.33	XIX-22	XVIII-4	XXVII-2.D
IV-11	VII-9	XI-B.16.107	XI-B.16.53	XI-B.34	XIX-23	XVIII-5	XXVII-2.E
IV-11.a	VIII-1	XI-B.16.108	XI-B.16.54	XI-B.4	XIX-24	XVIII-6	XXVII-3
IV-11.b	VIII-2	XI-B.16.109	XI-B.16.55	XI-B.5	XIX-25	XVIII-7	XXVII-3.A
IV-11.c	VIII-3	XI-B.16.11	XI-B.16.56	XI-B.6	XIX-25.A	XVIII-8	XXVII-3.B
IV-11.d	VIII-4	XI-B.16.110	XI-B.16.57	XI-B.7	XIX-25.B	XVIII-8.A	XXVII-4
IV-12	VIII-5	XI-B.16.111	XI-B.16.58	XI-B.8	XIX-25.C	XVIII-9	XXVII-4.A
IV-13	VIII-6	XI-B.16.112	XI-B.16.59	XI-B.8.c	XIX-25.D	XX-1	XXVII-4.B
IV-14	X-1.a	XI-B.16.113	XI-B.16.6	XI-B.9	XIX-25.E	XXI-1	XXVII-4.C
IV-15	X-1.c	XI-B.16.114	XI-B.16.60	XI-C.1	XIX-25.F	XXI-2	XXVII-5
IV-15.a	X-1.d	XI-B.16.115	XI-B.16.61	XI-C.2	XIX-25.G	XXI-3	XXVII-5.A
IV-16	X-10	XI-B.16.116	XI-B.16.62	XI-C.3	XIX-25.H	XXI-4	XXVII-5.B
IV-2	X-11	XI-B.16.117	XI-B.16.63	XI-C.4	XIX-26	XXI-5	XXVII-6
IV-2.a	X-11.a	XI-B.16.118	XI-B.16.64	XI-C.5	XIX-27	XXI-6	XXVII-7
IV-3	X-12	XI-B.16.119	XI-B.16.65	XI-C.6	XIX-28.A	XXI-6.A	XXVII-7.A
IV-3.a	X-13	XI-B.16.12	XI-B.16.66	XI-D.1	XIX-28.B	XXI-7	XXVII-7.B
IV-4	X-14	XI-B.16.120	XI-B.16.67	XI-D.1.a	XIX-29	XXI-8	XXVII-7.C
IV-5	X-15	XI-B.16.121	XI-B.16.68	XI-D.2	XIX-3	XXI-9	XXVII-8
IV-6	X-16	XI-B.16.122	XI-B.16.69	XI-D.3	XIX-30	XXII-1	XXVII-8.A
IV-7	X-17	XI-B.16.123	XI-B.16.7	XI-D.4	XIX-30.A	XXII-2	XXVII-8.B
IV-8	X-18	XI-B.16.124	XI-B.16.70	XI-D.5	XIX-30.B	XXII-3	XXVII-8.C
IV-8.a	X-19	XI-B.16.125	XI-B.16.71	XI-D.6	XIX-31	XXIII-1	XXVII-9
IV-8.b	X-2	XI-B.16.126	XI-B.16.72	XI-D.7	XIX-32	XXIII-2	XXVII-9.A
IV-9	X-2.a	XI-B.16.127	XI-B.16.73	XI-D.8	XIX-33	XXIII-3	XXVIII-1
IV-9.a	X-2.b	XI-B.16.128	XI-B.16.74	XI-E.1	XIX-34	XXIV-1	XXVIII-1.A
IV-9.b	X-3	XI-B.16.129	XI-B.16.75	XI-E.2	XIX-35	XXIV-2	
IX-1	X-4	XI-B.16.13	XI-B.16.76	XI-E.2.a	XIX-36	XXIX-1	