Replication File for 'Finessing the Hobbesian Dilemma' Paper

Anonymous for Reviewers

10/16/2021

1. Preparation: Full Dataset

```
# Given that readxl and DescTools packages are installed,
# call them using library function

library("readxl")
```

```
## Warning: package 'readxl' was built under R version 4.0.3
```

```
library("DescTools")
```

```
## Warning: package 'DescTools' was built under R version 4.0.4
```

Read the .xlsx file into R.

```
# Note that I have manually hard copied the data from the
# master workbook (with lots of formulas) into the single
# page of a new workbook without any formulas

# VERSION: 20 April 2021

aosa <- read_excel("C:/Users/vanhe/Desktop/Academic Papers/2. Finessing the Hobbesian Dilemma/aosa_data
```

Delete all the "Error Check" and "Flag" columns.

```
# This code deletes all columns with 'Error Check' and 'Flag'
# in the name

aosa <- aosa[, -c(grep("Error Check", colnames(aosa)), grep("Flag",
    colnames(aosa)))]
```

Make sure the Armed Group External Support variables are all characters.

```
aosa$agextsupport_general_country3 <- as.character(aosa$agextsupport_general_country3)

aosa$agextsupport_general_country4 <- as.character(aosa$agextsupport_general_country4)

aosa$agextsupport_alleged_country4 <- as.character(aosa$agextsupport_alleged_country4)

summary(aosa)
```

```
##     agname             obsyear       fullname         agnameobsyear
##  Length:4138        Min.   :1946   Length:4138        Length:4138
##  Class :character   1st Qu.:1982   Class :character   Class :character
##  Mode  :character   Median :1997   Mode  :character   Mode  :character
```

```
##                    Mean   :1994
##                    3rd Qu.:2008
##                    Max.   :2019
##
##   altagname         altfullname        narrative_name     narrative_year_compl
##  Length:4138        Length:4138        Length:4138        Min.   :2015
##  Class :character   Class :character   Class :character   1st Qu.:2017
##  Mode  :character   Mode  :character   Mode  :character   Median :2017
##                                                           Mean   :2017
##                                                           3rd Qu.:2018
##                                                           Max.   :2020
##
##      mainID      UCDPActorID      UCDPSideBID      UCDPDyadicID
##  Min.   : 164   Min.   :-999.0   Min.   :-999.0   Min.   : -999
##  1st Qu.:1358   1st Qu.:-999.0   1st Qu.:-999.0   1st Qu.: -999
##  Median :2566   Median : 195.0   Median : 180.0   Median :  428
##  Mean   :2522   Mean   : 172.8   Mean   :-123.9   Mean   :  556
##  3rd Qu.:3709   3rd Qu.: 325.0   3rd Qu.: 316.0   3rd Qu.:  709
##  Max.   :4778   Max.   :6329.0   Max.   :6692.0   Max.   :15069
##
##  UCDPConflictID       Country           stateprovince      stateprovince2
##  Min.   : -999.00   Length:4138        Length:4138        Length:4138
##  1st Qu.: -999.00   Class :character   Class :character   Class :character
##  Median :  222.00   Mode  :character   Mode  :character   Mode  :character
##  Mean   :   37.74
##  3rd Qu.:  322.00
##  Max.   :13349.00
##
##   state-level       startdate    startdateprec     interregna
##  Min.   :0.0000   Min.   :1946   Min.   :1.000   Min.   :0.000000
##  1st Qu.:0.0000   1st Qu.:1964   1st Qu.:2.000   1st Qu.:0.000000
##  Median :0.0000   Median :1977   Median :3.000   Median :0.000000
##  Mean   :0.1585   Mean   :1977   Mean   :2.659   Mean   :0.002417
##  3rd Qu.:0.0000   3rd Qu.:1992   3rd Qu.:3.000   3rd Qu.:0.000000
##  Max.   :1.0000   Max.   :2016   Max.   :3.000   Max.   :1.000000
##                                                  NA's   :1
##    leftist        religious        linguistic         tribal
##  Min.   :0.000   Min.   :0.0000   Min.   :0.0000   Min.   :0.0000
##  1st Qu.:0.000   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.0000
##  Median :0.000   Median :0.0000   Median :0.0000   Median :0.0000
##  Mean   :0.303   Mean   :0.3103   Mean   :0.4094   Mean   :0.3101
##  3rd Qu.:1.000   3rd Qu.:1.0000   3rd Qu.:1.0000   3rd Qu.:1.0000
##  Max.   :1.000   Max.   :1.0000   Max.   :1.0000   Max.   :1.0000
##
##  ID_ideology        AG_cleavage        religion_spec         agselfID
##  Length:4138        Length:4138        Length:4138        Min.   :1.000
##  Class :character   Class :character   Class :character   1st Qu.:2.000
##  Mode  :character   Mode  :character   Mode  :character   Median :3.000
##                                                           Mean   :2.728
##                                                           3rd Qu.:3.000
##                                                           Max.   :4.000
##
##   agselfID_chg      agselfID_prechg    agselfID_chgfilter    aggoals
##  Min.   :0.000000   Min.   :0.000000   Min.   :0.00000    Min.   :0.000
```

```
##  1st Qu.:0.000000   1st Qu.:0.000000   1st Qu.:0.00000    1st Qu.:1.000
##  Median :0.000000   Median :0.000000   Median :0.00000    Median :2.000
##  Mean   :0.008941   Mean   :0.008941   Mean   :0.01764    Mean   :2.134
##  3rd Qu.:0.000000   3rd Qu.:0.000000   3rd Qu.:0.00000    3rd Qu.:4.000
##  Max.   :1.000000   Max.   :1.000000   Max.   :1.00000    Max.   :5.000
##
##     aggoals2       armedorder        aoconf         aochange
##  Min.   :0.000   Min.   :1.000   Min.   :1.000   Min.   :-999.000
##  1st Qu.:0.000   1st Qu.:2.000   1st Qu.:2.000   1st Qu.:   0.000
##  Median :0.000   Median :2.000   Median :3.000   Median :   0.000
##  Mean   :0.202   Mean   :2.884   Mean   :2.473   Mean   :  -2.834
##  3rd Qu.:0.000   3rd Qu.:4.000   3rd Qu.:3.000   3rd Qu.:   0.000
##  Max.   :5.000   Max.   :5.000   Max.   :3.000   Max.   :   1.000
##
##     neworder      different_ao_from_previous     VtoNV
##  Min.   :-999.0   Min.   :0.0000             Min.   :0.00000
##  1st Qu.:-999.0   1st Qu.:0.0000             1st Qu.:0.00000
##  Median :-999.0   Median :0.0000             Median :0.00000
##  Mean   :-935.6   Mean   :0.1141             Mean   :0.03407
##  3rd Qu.:-999.0   3rd Qu.:0.0000             3rd Qu.:0.00000
##  Max.   :   5.0   Max.   :1.0000             Max.   :1.00000
##
##    pre_VtoNV        VtoNV_filter          NVtoV           pre_NVtoV
##  Min.   :0.00000   Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.00000
##  Median :0.00000   Median :0.00000   Median :0.00000   Median :0.00000
##  Mean   :0.03407   Mean   :0.06622   Mean   :0.02997   Mean   :0.02997
##  3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:0.00000
##  Max.   :1.00000   Max.   :1.00000   Max.   :1.00000   Max.   :1.00000
##
##   NVtoV_filter      LCfifthyear     LCfiveprevyears  LCfiveyr_filter
##  Min.   :0.00000   Min.   :0.0000   Min.   :0.0000   Min.   :0.0000
##  1st Qu.:0.00000   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.0000
##  Median :0.00000   Median :0.0000   Median :0.0000   Median :0.0000
##  Mean   :0.05752   Mean   :0.1399   Mean   :0.1986   Mean   :0.2182
##  3rd Qu.:0.00000   3rd Qu.:0.0000   3rd Qu.:0.0000   3rd Qu.:0.0000
##  Max.   :1.00000   Max.   :1.0000   Max.   :1.0000   Max.   :1.0000
##
##   LCtenthyear      LCtenprevyears   LCtenyr_filter   LCfifteenthyear
##  Min.   :0.00000   Min.   :0.0000   Min.   :0.0000   Min.   :0.00000
##  1st Qu.:0.00000   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:0.00000
##  Median :0.00000   Median :0.0000   Median :0.0000   Median :0.00000
##  Mean   :0.06815   Mean   :0.1339   Mean   :0.1421   Mean   :0.03577
##  3rd Qu.:0.00000   3rd Qu.:0.0000   3rd Qu.:0.0000   3rd Qu.:0.00000
##  Max.   :1.00000   Max.   :1.0000   Max.   :1.0000   Max.   :1.00000
##
##  LCfifteenprevyears LCfifteenyr_filter LCtwentiethyear   LCtwentyprevyears
##  Min.   :0.00000    Min.   :0.00000    Min.   :0.00000   Min.   :0.00000
##  1st Qu.:0.00000    1st Qu.:0.00000    1st Qu.:0.00000   1st Qu.:0.00000
##  Median :0.00000    Median :0.00000    Median :0.00000   Median :0.00000
##  Mean   :0.09232    Mean   :0.09667    Mean   :0.01909   Mean   :0.06259
##  3rd Qu.:0.00000    3rd Qu.:0.00000    3rd Qu.:0.00000   3rd Qu.:0.00000
##  Max.   :1.00000    Max.   :1.00000    Max.   :1.00000   Max.   :1.00000
##
```

```
##  LCtwentyyr_filter   terminate       terminateform       absorptiongroup
##  Min.   :0.00000   Min.   :0.00000   Min.   :-999.0000   Length:4138
##  1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:   0.0000   Class :character
##  Median :0.00000   Median :0.00000   Median :   0.0000   Mode  :character
##  Mean   :0.06501   Mean   :0.03939   Mean   :  -0.1733
##  3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:   0.0000
##  Max.   :1.00000   Max.   :1.00000   Max.   :   5.0000
##
##  peacedealonset     peacedealongoing  ceasefireonset     ceasefireongoing
##  Min.   :0.000000   Min.   :0.00000   Min.   :-999.000   Min.   :-999.000
##  1st Qu.:0.000000   1st Qu.:0.00000   1st Qu.:   0.000   1st Qu.:   0.000
##  Median :0.000000   Median :0.00000   Median :   0.000   Median :   0.000
##  Mean   :0.005075   Mean   :0.02102   Mean   :  -3.853   Mean   :  -3.748
##  3rd Qu.:0.000000   3rd Qu.:0.00000   3rd Qu.:   0.000   3rd Qu.:   0.000
##  Max.   :1.000000   Max.   :1.00000   Max.   :   1.000   Max.   :   1.000
##                                       NA's   :13          NA's   :13
##     amnesty         agreementonset      dealonset        dealNVonset
##  Min.   :0.000000   Min.   :0.00000   Min.   :0.00000   Min.   :0.00000
##  1st Qu.:0.000000   1st Qu.:0.00000   1st Qu.:0.00000   1st Qu.:0.00000
##  Median :0.000000   Median :0.00000   Median :0.00000   Median :0.00000
##  Mean   :0.005091   Mean   :0.02658   Mean   :0.03166   Mean   :0.05607
##  3rd Qu.:0.000000   3rd Qu.:0.00000   3rd Qu.:0.00000   3rd Qu.:0.00000
##  Max.   :1.000000   Max.   :1.00000   Max.   :1.00000   Max.   :1.00000
##  NA's   :13
##  dealterminate      agpolwing            polpar            pargov
##  Min.   :-999.0   Min.   :-999.000   Min.   :-999.00   Min.   :-999.00
##  1st Qu.:-999.0   1st Qu.:   0.000   1st Qu.:   0.00   1st Qu.:   0.00
##  Median :   0.0   Median :   0.000   Median :   0.00   Median :   0.00
##  Mean   :-269.1   Mean   :  -3.279   Mean   : -29.36   Mean   : -24.99
##  3rd Qu.:   0.0   3rd Qu.:   1.000   3rd Qu.:   2.00   3rd Qu.:   0.00
##  Max.   :   1.0   Max.   :   1.000   Max.   :   3.00   Max.   :   3.00
##  NA's   :13       NA's   :10         NA's   :136       NA's   :113
##  party_polwing     party_polpar    polwing_polpar    govsuccess
##  Min.   :0.0000   Min.   :0.0000   Min.   :0.000   Min.   :0.00000
##  1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:2.000   1st Qu.:0.00000
##  Median :0.0000   Median :0.0000   Median :4.000   Median :0.00000
##  Mean   :0.2405   Mean   :0.2293   Mean   :3.007   Mean   :0.09618
##  3rd Qu.:0.0000   3rd Qu.:0.0000   3rd Qu.:4.000   3rd Qu.:0.00000
##  Max.   :2.0000   Max.   :2.0000   Max.   :4.000   Max.   :1.00000
##
##    agillicit           agtax         agextsupport_general
##  Min.   :-999.00   Min.   :-999.00   Min.   :0.0000
##  1st Qu.:   0.00   1st Qu.:   0.00   1st Qu.:0.0000
##  Median :   0.00   Median :   0.00   Median :0.0000
##  Mean   : -74.59   Mean   : -79.77   Mean   :0.1639
##  3rd Qu.:   0.00   3rd Qu.:   0.00   3rd Qu.:0.0000
##  Max.   :   1.00   Max.   :   1.00   Max.   :1.0000
##  NA's   :205       NA's   :205       NA's   :1
##  agextsupport_general_country agextsupport_general_country2
##  Length:4138                  Length:4138
##  Class :character             Class :character
##  Mode  :character             Mode  :character
##
##
```

```
##
##
##  agextsupport_general_country3 agextsupport_general_country4
##  Length:4138                   Length:4138
##  Class :character              Class :character
##  Mode  :character              Mode  :character
##
##
##
##
##  agextsupport_alleged agextsupport_alleged_country
##  Min.   :-999.000     Length:4138
##  1st Qu.:   0.000     Class :character
##  Median :   0.000     Mode  :character
##  Mean   :  -5.416
##  3rd Qu.:   0.000
##  Max.   :   1.000
##
##  agextsupport_alleged_country2 agextsupport_alleged_country3
##  Length:4138                   Length:4138
##  Class :character              Class :character
##  Mode  :character              Mode  :character
##
##
##
##
##  agextsupport_alleged_country4 extsupport_notes
##  Length:4138                   Length:4138
##  Class :character              Class :character
##  Mode  :character              Mode  :character
##
##
##
##
```

1.A. Descriptive statistics of "raw" dataset

```
# Earliest year

min(aosa$obsyear)
```

```
## [1] 1946
```

```
# Latest year

max(aosa$obsyear)
```

```
## [1] 2019
```

```
# Countries

length(unique(aosa$Country))
```

```
## [1] 7
```

```r
# Dyads

length(unique(aosa$agname))
```

```
## [1] 241
```

```r
# Dyad-Years

length(aosa$agname)
```

```
## [1] 4138
```

```r
## Total War as % of Dyad-Years

round(length(aosa[aosa$armedorder == 1, ]$agname)/length(aosa$agname),
    2)
```

```
## [1] 0.12
```

```r
## Containmentas % of Dyad-Years

round(length(aosa[aosa$armedorder == 2, ]$agname)/length(aosa$agname),
    2)
```

```
## [1] 0.44
```

```r
## Hostilities as % of Dyad-Years

round(length(aosa[aosa$armedorder == 3, ]$agname)/length(aosa$agname),
    2)
```

```
## [1] 0.01
```

```r
## Containment as % of Dyad-Years

round(length(aosa[aosa$armedorder == 4, ]$agname)/length(aosa$agname),
    2)
```

```
## [1] 0.3
```

```r
## Alliance as % of Dyad-Years

round(length(aosa[aosa$armedorder == 5, ]$agname)/length(aosa$agname),
    2)
```

```
## [1] 0.13
```

```r
# Terminations

sum(aosa$terminate)
```

```
## [1] 163
```

```r
## Collapse as % of Terminations

round(sum(aosa[aosa$terminateform == 1, ]$terminate)/sum(aosa$terminate),
    2)
```

```
## [1] 0.56
```

```
## Incorporation as % of Terminations

round(sum(aosa[aosa$terminateform == 2, ]$terminate)/sum(aosa$terminate),
    2)
```

```
## [1] 0.24
```

```
## Absorption as % of Terminations

round(sum(aosa[aosa$terminateform == 3, ]$terminate)/sum(aosa$terminate),
    2)
```

```
## [1] 0.09
```

```
## Disarmament as % of Terminations

round(sum(aosa[aosa$terminateform == 4, ]$terminate)/sum(aosa$terminate),
    2)
```

```
## [1] 0.09
```

```
## Victory as % of Terminations

round(sum(aosa[aosa$terminateform == 5, ]$terminate)/sum(aosa$terminate),
    2)
```

```
## [1] 0.01
```

1.B. Initial subsetting

Perform initial subsetting of the aosa dataset according to the research paper's scope conditions:

- No group-state govt dyads (we only want group-federal govt dyads)
- Observations before 2016
- No Afghanistan, Nepal, or Sri Lanka dyads

Be advised that we will remove mainstream political parties in subsequent code chunk. (We cannot remove them up front because armed groups often transition into and out of this identification in the middle of LLCs)

```
aosa <- aosa[aosa[, "state-level"] == 0 & aosa[, "obsyear"] <=
    2016 & ((aosa[, "Country"] != "Afghanistan") & (aosa[, "Country"] !=
    "Nepal") & (aosa[, "Country"] != "Sri Lanka")), ]
```

```
## Warning: The ‘i‘ argument of ‘‘[‘()‘ can’t be a matrix as of tibble 3.0.0.
## Convert to a vector.
## This warning is displayed once every 8 hours.
## Call ‘lifecycle::last_warnings()‘ to see where this warning was generated.
```

Now, subset the AOSA dataset to exclude:

- Dyad-years that were not "mainstream political parties"

```
aosa_notParty <- aosa[aosa$agselfID != 1, ]
```

2. Preparation: List of Long-Term Limited Cooperation Orders

First, we'll perform an initial subset on the aosa dataset:

- At least 5 years of LLC

Simultaneously, we will only keep variables that might be used for analysis.

NOTE: We include mainstream political parties, as some LLC armed groups transition to/from them midway. However, we will eventually exclude LLCs where the armed group is fully a mainstream political party.

```
aosaLLC_long <- aosa[aosa[, "LCfiveyr_filter"] == 1, c("agname",
    "obsyear", "Country", "AG_cleavage", "religion_spec", "ID_ideology",
    "aggoals", "aggoals2", "agselfID", "agpolwing", "polpar",
    "pargov", "agillicit", "agtax", "peacedealonset", "peacedealongoing",
    "ceasefireonset", "ceasefireongoing", "amnesty", "terminate",
    "agextsupport_general", "agextsupport_alleged")]
```

Second, we will prepare the matrix for further subsetting. We will remove:

- Observations with fewer than 5 years duration of their LLC (this can occur if they had an LLC which extended past 2016)
- Armed groups that were "mainstream political parties" for the duration of the period

```
# First, prepare the variables


# Armed order variables

## What is the armed group name (armed order name)?
LLCnames <- unique(aosaLLC_long$agname)


# Time variables

## What is the duration of the LLC?
vLLC_yrs <- setNames(vector("list", length(LLCnames)), LLCnames)

## What year does the LLC start?
vLLC_start <- setNames(vector("list", length(LLCnames)), LLCnames)

## What year does the LLC end?
vLLC_end <- setNames(vector("list", length(LLCnames)), LLCnames)


# Conflict characteristic variables

## In what country does most of the LLC occur?
vCountry <- setNames(vector("list", length(LLCnames)), LLCnames)

## With which cleavage does armed group identify for most of
## the LLC?
vAG_cleavage <- setNames(vector("list", length(LLCnames)), LLCnames)

## With which religion does the armed group identify for most
## of the LLC?
vreligion_spec <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## With which ideology does the armed group identify for most
```

```
## of the LLC?
vID_ideology <- setNames(vector("list", length(LLCnames)), LLCnames)


# Goals of the armed group variables

## For what % of years of the LLC did the armed group espouse
## at least one maximalist goal?  aggoals OR aggoals2 == (1)
## Independence/complete secession OR (3) Control over the
## central government
vmaximalGoals_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## For what % of years of the LLC did the armed group espouse
## at least one goal about the territorial periphery?  aggoals
## OR aggoals2 == (1) Independence/complete secession OR (2)
## Autonomy short of secession
vperipheryGoals_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)


# Party and political activity variables

## For how many years of the LLC did the armed group NOT
## identify as 'Mainstream Political Party'?
vnotParty_yrs <- setNames(vector("list", length(LLCnames)), LLCnames)

## For how many years of the LLC did the armed group NOT
## identify as 'Anti-State Rebel'?
vnotRebel_yrs <- setNames(vector("list", length(LLCnames)), LLCnames)

## For how many years of the LLC did the armed group maintain
## a political wing?
vagpolwing_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## For how many years of the LLC was the armed group formally
## involved in politics?  polpar == (2) formal advocacy OR (3)
## formal participation
vformalPolpar_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## For how many years of the LLC did the armed group operate
## some level of parallel government?  pargov == (2)
## Semi-organized parallel government OR (3) Fully-organized
## parallel government
vsomePargov_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## For how many years of the LLC was the armed group involved
## in illicit economies?
vagillicit_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)
```

```r
## For how many years of the LLC was the armed group involved
## in taxation?
vagtax_yrs <- setNames(vector("list", length(LLCnames)), LLCnames)


# Negotiation variables

## How many peace deals were signed during the LLC?
vpeacedealonsets <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## How many years of the LLC coincided with a peace deal being
## in force?
vpeacedeal_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## How many ceasefires were signed during the LLC?
vceasefireonsets <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## How many years of the LLC coincided with a ceasefire being
## in force?
vceasefire_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## How many amnesties were anounced by the government during
## the LLC?
vamnesty_yrs <- setNames(vector("list", length(LLCnames)), LLCnames)


# Termination variable

## Did the armed order terminate during the LLC?
vterminate <- setNames(vector("list", length(LLCnames)), LLCnames)

# External support variables

## For how many years of the LLC did the armed group receive
## support from another country?
vsupportGen_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)

## For how many years of the LLC did the armed group allegedly
## receive support from another country?
vsupportAlg_yrs <- setNames(vector("list", length(LLCnames)),
    LLCnames)


# Second, run the loop to populate the variables with their
# values

for (ag in LLCnames) {
    vLLC_yrs[ag] <- as.numeric(sum(aosaLLC_long$agname == ag))
```

```
    vLLC_start[ag] <- as.numeric(min(aosaLLC_long[aosaLLC_long$agname ==
        ag, "obsyear"]))
    vLLC_end[ag] <- as.numeric(max(aosaLLC_long[aosaLLC_long$agname ==
        ag, "obsyear"]))

    vCountry[ag] <- sapply(aosaLLC_long[aosaLLC_long$agname ==
        ag, "Country"], Mode)
    vAG_cleavage[ag] <- sapply(aosaLLC_long[aosaLLC_long$agname ==
        ag, "AG_cleavage"], Mode)
    vreligion_spec[ag] <- sapply(aosaLLC_long[aosaLLC_long$agname ==
        ag, "religion_spec"], Mode)
    vID_ideology[ag] <- sapply(aosaLLC_long[aosaLLC_long$agname ==
        ag, "ID_ideology"], Mode)

    vmaximalGoals_yrs[ag] <- as.numeric(sum(aosaLLC_long[((aosaLLC_long$aggoals ==
        1 | aosaLLC_long$aggoals2 == 1) | (aosaLLC_long$aggoals ==
        3 | aosaLLC_long$aggoals2 == 3)), ]$agname == ag))
    vperipheryGoals_yrs[ag] <- as.numeric(sum(aosaLLC_long[((aosaLLC_long$aggoals ==
        1 | aosaLLC_long$aggoals2 == 1) | (aosaLLC_long$aggoals ==
        2 | aosaLLC_long$aggoals2 == 2)), ]$agname == ag))

    vnotParty_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agselfID !=
        1, ]$agname == ag))
    vnotRebel_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agselfID !=
        3, ]$agname == ag))
    vagpolwing_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agpolwing ==
        1, ]$agname == ag, na.rm = TRUE))
    vformalPolpar_yrs[ag] <- as.numeric(sum(aosaLLC_long[(aosaLLC_long$polpar ==
        2 | aosaLLC_long$polpar == 3), ]$agname == ag, na.rm = TRUE))

    vsomePargov_yrs[ag] <- as.numeric(sum(aosaLLC_long[(aosaLLC_long$pargov ==
        2 | aosaLLC_long$pargov == 3), ]$agname == ag, na.rm = TRUE))
    vagillicit_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agillicit ==
        1, ]$agname == ag, na.rm = TRUE))
    vagtax_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agtax ==
        1, ]$agname == ag, na.rm = TRUE))

    vpeacedealonsets[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$peacedealonset ==
        1, ]$agname == ag))
    vpeacedeal_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$peacedealongoing ==
        1, ]$agname == ag))
    vceasefireonsets[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$ceasefireonset ==
        1, ]$agname == ag))
    vceasefire_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$ceasefireongoing ==
        1, ]$agname == ag))
    vamnesty_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$amnesty ==
        1, ]$agname == ag))

    vterminate[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$terminate ==
        1, ]$agname == ag))

    vsupportGen_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agextsupport_general ==
        1, ]$agname == ag))
```

```
    vsupportAlg_yrs[ag] <- as.numeric(sum(aosaLLC_long[aosaLLC_long$agextsupport_alleged ==
        1, ]$agname == ag))

}


# Third, create secondary variables

## Alternative way to calculate the duration of the LLC
vLLC_endLessStart <- as.numeric(vLLC_end) - as.numeric(vLLC_start) +
    1

## Indicates if the count of observations for an armed group
## is less than five years, meaning the group should be
## removed from the list of LLCs
vLLC_lessThan5yrs <- as.numeric(vLLC_yrs) < 5

## Indicates if the armed group was a mainstream political
## party for the duration of the LLC, meaning the group should
## be removed from the list of LLCs
vmainstreamParty <- as.numeric(vnotParty_yrs) == 0

## Indicates if there is a disjuncture between the two methods
## for counting the duration of the LLC, meaning we need to
## manually examine the data
vinconsistentDuration <- as.numeric(vLLC_yrs) != vLLC_endLessStart


# Fourth, assemble the matrix of LLCs

aosaLLC <- cbind(as.numeric(vLLC_yrs), as.numeric(vLLC_start),
    as.numeric(vLLC_end), as.numeric(vLLC_lessThan5yrs), as.numeric(vLLC_endLessStart),
    as.numeric(vinconsistentDuration), vCountry, vAG_cleavage,
    vreligion_spec, vID_ideology, as.numeric(vmaximalGoals_yrs),
    as.numeric(vperipheryGoals_yrs), as.numeric(vmainstreamParty),
    as.numeric(vnotParty_yrs), as.numeric(vnotRebel_yrs), as.numeric(vagpolwing_yrs),
    as.numeric(vformalPolpar_yrs), as.numeric(vsomePargov_yrs),
    as.numeric(vagillicit_yrs), as.numeric(vagtax_yrs), as.numeric(vpeacedealonsets),
    as.numeric(vpeacedeal_yrs), as.numeric(vceasefireonsets),
    as.numeric(vceasefire_yrs), as.numeric(vamnesty_yrs), as.numeric(vterminate),
    as.numeric(vsupportGen_yrs), as.numeric(vsupportAlg_yrs))

aosaLLC <- (data.frame(row.names(aosaLLC), aosaLLC, row.names = NULL))

colnames(aosaLLC) <- c("agname", "LLC_yrs", "LLC_start", "LLC_end",
    "LLC_lessThan5yrs", "LLC_endLessStart", "inconsistentDuration",
    "Country", "AG_cleavage", "religion_spec", "ID_ideology",
    "maximalGoals_yrs", "peripheryGoals_yrs", "mainstreamParty",
    "notParty_yrs", "notRebel_yrs", "agpolwing_yrs", "formalPolpar_yrs",
    "somePargov_yrs", "agillicit_yrs", "agtax_yrs", "peacedealonsets",
    "peacedeal_yrs", "ceasefireonsets", "ceasefire_yrs", "amnesty_yrs",
    "terminations", "supportGen_yrs", "supportAlg_yrs")
```

```
# Fifth, perform the subsetting

aosaLLC <- aosaLLC[aosaLLC$LLC_lessThan5yrs == 0 & aosaLLC$mainstreamParty ==
    0, ]
```

Third, we are going to identify and manually inspect rows where there may be multiple LLCs. This will include:

- Counting the number of elements
- Manually inspecting rows where there may be multiple LLCs
- Replacing anomalous rows with corrected rows

We will also prepare the matrix for graphics by:

- Removing unnecessary columns
- Preparing unique names for each LLC

```
# First, clean up any inconsistencies in the LLC data


# There are at least 45 armed group LLCs

length(aosaLLC$agname)
```

```
## [1] 45
```

```
# Some of these LLCs may be multiples

aosaLLC[aosaLLC$inconsistentDuration == 1, ]
```

```
##           agname LLC_yrs LLC_start LLC_end LLC_lessThan5yrs LLC_endLessStart
## 13 Khun Sa Group      13      1962    1988                0               27
## 16           KNO      16      1988    2016                0               29
## 31          NMSP      18      1996    2016                0               21
## 42           RSS      46      1950    2013                0               64
##    inconsistentDuration Country        AG_cleavage religion_spec
## 13                    1 Myanmar Criminal (Myanmar)            NA
## 16                    1   India               Kuki     Northeast
## 31                    1 Myanmar                Mon            NA
## 42                    1   India           Hindutva         Hindu
##             ID_ideology maximalGoals_yrs peripheryGoals_yrs mainstreamParty
## 13                 none               6                  6               0
## 16    linguistic-tribal               7                 16               0
## 31           linguistic               0                  0               0
## 42 religious-linguistic               0                  0               0
##    notParty_yrs notRebel_yrs agpolwing_yrs formalPolpar_yrs somePargov_yrs
## 13           13           13             0                0              0
## 16           16            9             0                0              0
## 31           18            4            18                0              0
## 42           46           46            46               46              0
##    agillicit_yrs agtax_yrs peacedealonsets peacedeal_yrs ceasefireonsets
## 13            13         0               0             0               0
## 16             0         0               0             0               0
## 31             0         0               0             0               0
## 42             0         0               0             0               0
```

```
##    ceasefire_yrs amnesty_yrs terminations supportGen_yrs supportAlg_yrs
## 13             0           0            1              1              0
## 16            11           0            0              0              0
## 31            18           0            0              0              0
## 42             0           0            0              0              0
```

```
# Khun Sa Group has 2 LLCs: 1962-1968 and 1983-1988

as.matrix(aosa[aosa$agname == "Khun Sa Group" & aosa$obsyear >=
    1962 & aosa$obsyear <= 1988 & aosa$LCfiveyr_filter == 1,
    "obsyear"])
```

```
##       obsyear
##  [1,]    1962
##  [2,]    1963
##  [3,]    1964
##  [4,]    1965
##  [5,]    1966
##  [6,]    1967
##  [7,]    1968
##  [8,]    1983
##  [9,]    1984
## [10,]    1985
## [11,]    1986
## [12,]    1987
## [13,]    1988
```

```
# We will replace the Khun Sa Group row with two new rows

aosaLLC <- aosaLLC[aosaLLC$agname != "Khun Sa Group", ]

aosaLLC <- rbind(aosaLLC, c("Khun Sa Group", 7, 1962, 1968, 0,
    7, 0, "Myanmar", "Criminal (Myanmar)", "NA", "none", 0, 0,
    0, 7, 7, 0, 0, 0, 7, 0, 0, 0, 0, 0, 0, 1, 0, 0), c("Khun Sa Group",
    6, 1983, 1988, 0, 6, 0, "Myanmar", "Criminal (Myanmar)",
    "NA", "none", 6, 6, 0, 6, 6, 0, 0, 0, 6, 0, 0, 0, 0, 0, 0,
    0, 1, 0))


# KNO has 2 LLCs: 1988-1992 and 2006-2016

as.matrix(aosa[aosa$agname == "KNO" & aosa$obsyear >= 1988 &
    aosa$obsyear <= 2016 & aosa$LCfiveyr_filter == 1, "obsyear"])
```

```
##       obsyear
##  [1,]    1988
##  [2,]    1989
##  [3,]    1990
##  [4,]    1991
##  [5,]    1992
##  [6,]    2006
##  [7,]    2007
##  [8,]    2008
##  [9,]    2009
## [10,]    2010
## [11,]    2011
```

```
## [12,]    2012
## [13,]    2013
## [14,]    2014
## [15,]    2015
## [16,]    2016
```

```
# We will replace the KNO row with two new rows

aosaLLC <- aosaLLC[aosaLLC$agname != "KNO", ]

aosaLLC <- rbind(aosaLLC, c("KNO", 5, 1988, 1992, 0, 5, 0, "India",
    "Kuki", "Northeast", "linguistic-tribal", 5, 5, 0, 5, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0), c("KNO", 11, 2006,
    2016, 0, 11, 0, "India", "Kuki", "Northeast", "linguistic-tribal",
    2, 11, 0, 11, 9, 0, 0, 0, 0, 0, 0, 0, 0, 11, 0, 0, 0, 0))


# NMSP has 1 LLC: 1996-2009

as.matrix(aosa[aosa$agname == "NMSP" & aosa$obsyear >= 1996 &
    aosa$obsyear <= 2016 & aosa$LCfiveyr_filter == 1, "obsyear"])
```

```
##       obsyear
##  [1,]    1996
##  [2,]    1997
##  [3,]    1998
##  [4,]    1999
##  [5,]    2000
##  [6,]    2001
##  [7,]    2002
##  [8,]    2003
##  [9,]    2004
## [10,]    2005
## [11,]    2006
## [12,]    2007
## [13,]    2008
## [14,]    2009
## [15,]    2013
## [16,]    2014
## [17,]    2015
## [18,]    2016
```

```
# We will replace the NMSP row

aosaLLC <- aosaLLC[aosaLLC$agname != "NMSP", ]

aosaLLC <- rbind(aosaLLC, c("NMSP", 14, 1996, 2009, 0, 14, 0,
    "Myanmar", "Mon", "NA", "linguistic", 0, 0, 0, 14, 0, 14,
    0, 0, 0, 0, 0, 0, 0, 14, 0, 0, 0, 0))

# We will also recode the five year LLC filter from 2013 to
# 2016 to be 0

aosa[aosa$agnameobsyear == "NMSP2013", "LCfiveyr_filter"] <- 0
aosa[aosa$agnameobsyear == "NMSP2014", "LCfiveyr_filter"] <- 0
```

```r
aosa[aosa$agnameobsyear == "NMSP2015", "LCfiveyr_filter"] <- 0
aosa[aosa$agnameobsyear == "NMSP2016", "LCfiveyr_filter"] <- 0


# RSS has 3 LLCs: 1950-1974, 1980-1991, and 2005-2013

as.matrix(aosa[aosa$agname == "RSS" & aosa$obsyear >= 1950 &
    aosa$obsyear <= 2013 & aosa$LCfiveyr_filter == 1, "obsyear"])
```

```
##       obsyear
##  [1,]    1950
##  [2,]    1951
##  [3,]    1952
##  [4,]    1953
##  [5,]    1954
##  [6,]    1955
##  [7,]    1956
##  [8,]    1957
##  [9,]    1958
## [10,]    1959
## [11,]    1960
## [12,]    1961
## [13,]    1962
## [14,]    1963
## [15,]    1964
## [16,]    1965
## [17,]    1966
## [18,]    1967
## [19,]    1968
## [20,]    1969
## [21,]    1970
## [22,]    1971
## [23,]    1972
## [24,]    1973
## [25,]    1974
## [26,]    1980
## [27,]    1981
## [28,]    1982
## [29,]    1983
## [30,]    1984
## [31,]    1985
## [32,]    1986
## [33,]    1987
## [34,]    1988
## [35,]    1989
## [36,]    1990
## [37,]    1991
## [38,]    2005
## [39,]    2006
## [40,]    2007
## [41,]    2008
## [42,]    2009
## [43,]    2010
## [44,]    2011
```

```
## [45,]    2012
## [46,]    2013
```

```
# We will replace the RSS row with three new rows

aosaLLC <- aosaLLC[aosaLLC$agname != "RSS", ]

aosaLLC <- rbind(aosaLLC, c("RSS", 25, 1950, 1974, 0, 25, 0,
    "India", "Hindutva", "Hindu", "religious-linguistic", 0,
    0, 0, 25, 25, 25, 25, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0), c("RSS",
    12, 1980, 1991, 0, 12, 0, "India", "Hindutva", "Hindu", "religious-linguistic",
    0, 0, 0, 12, 12, 12, 12, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0),
    c("RSS", 9, 2005, 2013, 0, 9, 0, "India", "Hindutva", "Hindu",
        "religious-linguistic", 0, 0, 0, 9, 9, 9, 9, 0, 0, 0,
        0, 0, 0, 0, 0, 0, 0, 0))


# Second, clear matrix by removing columns that were used for
# filtering but that are now unnecessary

aosaLLC <- aosaLLC[, c("agname", "LLC_yrs", "LLC_start", "LLC_end",
    "Country", "AG_cleavage", "religion_spec", "ID_ideology",
    "maximalGoals_yrs", "peripheryGoals_yrs", "notParty_yrs",
    "notRebel_yrs", "agpolwing_yrs", "formalPolpar_yrs", "somePargov_yrs",
    "agillicit_yrs", "agtax_yrs", "peacedealonsets", "peacedeal_yrs",
    "ceasefireonsets", "ceasefire_yrs", "amnesty_yrs", "terminations",
    "supportGen_yrs", "supportAlg_yrs")]


# Third, transform variables measured in 'number of years'
# into variables measured in '% of LLC years'

## % of years with maximalist goals
aosaLLC$maximalGoals_pctyrs <- round(as.numeric(aosaLLC$maximalGoals_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with goals on the territorial periophery
aosaLLC$peripheryGoals_pctyrs <- round(as.numeric(aosaLLC$peripheryGoals_yrs)/as.numeric(aosaLLC$LLC_yrs
    3)


## % of years NOT as a mainstream political party
aosaLLC$notParty_pctyrs <- round(as.numeric(aosaLLC$notParty_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years NOT as an anti-state rebel
aosaLLC$notRebel_pctyrs <- round(as.numeric(aosaLLC$notRebel_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with a political wing
aosaLLC$agpolwing_pctyrs <- round(as.numeric(aosaLLC$agpolwing_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with formal political involvement
```

```
aosaLLC$formalPolpar_pctyrs <- round(as.numeric(aosaLLC$formalPolpar_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with some level of parallel government
aosaLLC$somePargov_pctyrs <- round(as.numeric(aosaLLC$somePargov_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years involved in illicit economies
aosaLLC$agillicit_pctyrs <- round(as.numeric(aosaLLC$agillicit_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years involved in taxation
aosaLLC$agtax_pctyrs <- round(as.numeric(aosaLLC$agtax_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)


## % of years under a peace deal
aosaLLC$peacedeal_pctyrs <- round(as.numeric(aosaLLC$peacedeal_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years under a ceasefire
aosaLLC$ceasefire_pctyrs <- round(as.numeric(aosaLLC$ceasefire_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with an amnesty
aosaLLC$amnesty_pctyrs <- round(as.numeric(aosaLLC$amnesty_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years with external support
aosaLLC$supportGen_pctyrs <- round(as.numeric(aosaLLC$supportGen_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)

## % of years allegedly with external support
aosaLLC$supportAlg_pctyrs <- round(as.numeric(aosaLLC$supportAlg_yrs)/as.numeric(aosaLLC$LLC_yrs),
    3)


# Fourth, recompile the list of LLCs - once in terms of % of
# years, and again in terms of count of years

aosaLLC_pctyrs <- aosaLLC[, c("agname", "LLC_yrs", "LLC_start",
    "LLC_end", "Country", "AG_cleavage", "religion_spec", "ID_ideology",
    "maximalGoals_pctyrs", "peripheryGoals_pctyrs", "notParty_pctyrs",
    "notRebel_pctyrs", "agpolwing_pctyrs", "formalPolpar_pctyrs",
    "somePargov_pctyrs", "agillicit_pctyrs", "agtax_pctyrs",
    "peacedealonsets", "peacedeal_pctyrs", "ceasefireonsets",
    "ceasefire_pctyrs", "amnesty_pctyrs", "terminations", "supportGen_pctyrs",
    "supportAlg_pctyrs")]

aosaLLC <- aosaLLC[, c("agname", "LLC_yrs", "LLC_start", "LLC_end",
    "Country", "AG_cleavage", "religion_spec", "ID_ideology",
    "maximalGoals_yrs", "peripheryGoals_yrs", "notParty_yrs",
    "notRebel_yrs", "agpolwing_yrs", "formalPolpar_yrs", "somePargov_yrs",
```

```
    "agillicit_yrs", "agtax_yrs", "peacedealonsets", "peacedeal_yrs",
    "ceasefireonsets", "ceasefire_yrs", "amnesty_yrs", "terminations",
    "supportGen_yrs", "supportAlg_yrs")]


# Fifth, generate a list of unique LLCs (Armed Group Name +
# Country + Years) and bind it as a new column

# NOTE: do not run this multiple times, as it will simply
# keep adding LLC names to the dataset

aosaLLC <- cbind(paste(aosaLLC$agname, " and ", aosaLLC$Country,
    " (", aosaLLC$LLC_start, "-", aosaLLC$LLC_end, ")", sep = ""),
    aosaLLC)

colnames(aosaLLC)[1] <- "LLC"

aosaLLC_pctyrs <- cbind(paste(aosaLLC_pctyrs$agname, " and ",
    aosaLLC_pctyrs$Country, " (", aosaLLC_pctyrs$LLC_start, "-",
    aosaLLC_pctyrs$LLC_end, ")", sep = ""), aosaLLC_pctyrs)

colnames(aosaLLC_pctyrs)[1] <- "LLC"
```

Fourth, we'll create the dataset of LLCs over ten years.

```
# List of LLCs 10 years or longer in duration

aosaLLC_over10yrs <- aosaLLC[aosaLLC$LLC_yrs >= 10, ]

aosaLLC_over10yrs_pctyrs <- aosaLLC_pctyrs[aosaLLC_pctyrs$LLC_yrs >=
    10, ]

(LLCs_over10yrs <- sort(aosaLLC_over10yrs$LLC))
```

```
##  [1] "ANVC and India (2005-2014)"
##  [2] "ATiP and Pakistan (2002-2016)"
##  [3] "CNF and Myanmar (2004-2016)"
##  [4] "HuM-Pakistan and Pakistan (2001-2012)"
##  [5] "KIO and Myanmar (1995-2010)"
##  [6] "KNF and India (2006-2016)"
##  [7] "KNO and India (2006-2016)"
##  [8] "KNPP and Myanmar (2000-2016)"
##  [9] "Kokang Militia and Myanmar (1949-1961)"
## [10] "KS and India (1969-1992)"
## [11] "MNDAA and Myanmar (1989-2008)"
## [12] "NDA-K and Myanmar (1989-2008)"
## [13] "NDAA and Myanmar (1989-2016)"
## [14] "NMSP and Myanmar (1996-2009)"
## [15] "NSCN-IM and India (1997-2016)"
## [16] "NSCN-K and India (1998-2014)"
## [17] "PNLO(2) and Myanmar (2007-2016)"
## [18] "PNO and Myanmar (1995-2016)"
## [19] "PSLF and Myanmar (1992-2005)"
## [20] "RSS and India (1950-1974)"
## [21] "RSS and India (1980-1991)"
```

```
## [22] "SSA-N and Myanmar (1990-2016)"
## [23] "SSNLO and Myanmar (1995-2007)"
## [24] "UWSA and Myanmar (1989-2016)"
```

Fifth, we'll recode the dyads in "aosa_notParty" that are different from the dyads in "aosaLLC" and "aosaLLC_over10yrs"

```
# Five year LLC

## First, the dyad-years set seems to contain two additional
## dyads than the LLC set

length(unique(aosa_notParty[aosa_notParty$LCfiveyr_filter ==
    1, ]$agname))
```

```
## [1] 47
```

```
length(unique(aosaLLC$agname))
```

```
## [1] 45
```

```
## Second, these two dyads contained in the dyad-years set
## seem to be ALP and HQN-Pakistan

setdiff(unique(aosa_notParty[aosa_notParty$LCfiveyr_filter ==
    1, ]$agname), unique(aosaLLC$agname))
```

```
## [1] "ALP"          "HQN-Pakistan"
```

```
setdiff(unique(aosaLLC$agname), unique(aosa_notParty[aosa_notParty$LCfiveyr_filter ==
    1, ]$agname))
```

```
## character(0)
```

```
## Third, we can identify which years to recode the filter to
## 0

### ALP: the years 2013-2016 were coded as LLC due to cutoff at
### 2016

aosa_notParty[aosa_notParty$agname == "ALP", c("agnameobsyear",
    "armedorder", "neworder", "LCfiveyr_filter")]
```

```
## # A tibble: 43 x 4
##    agnameobsyear armedorder neworder LCfiveyr_filter
##    <chr>              <dbl>    <dbl>           <dbl>
##  1 ALP1968                2     -999               0
##  2 ALP1972                2     -999               0
##  3 ALP1973                2     -999               0
##  4 ALP1974                2     -999               0
##  5 ALP1975                2     -999               0
##  6 ALP1976                2     -999               0
##  7 ALP1977                2     -999               0
##  8 ALP1981                2     -999               0
##  9 ALP1982                2     -999               0
## 10 ALP1983                2     -999               0
## # ... with 33 more rows
```

```
aosa_notParty[aosa_notParty$agnameobsyear == "ALP2013", "LCfiveyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "ALP2014", "LCfiveyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "ALP2015", "LCfiveyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "ALP2016", "LCfiveyr_filter"] <- 0

### HQN-Pakistan: the years 2014-2016 were coded as LLC due to
### cutoff at 2016

aosa_notParty[aosa_notParty$agname == "HQN-Pakistan", c("agnameobsyear",
    "armedorder", "neworder", "LCfiveyr_filter")]
```

```
## # A tibble: 44 x 4
##    agnameobsyear    armedorder neworder LCfiveyr_filter
##    <chr>                 <dbl>    <dbl>           <dbl>
##  1 HQN-Pakistan1973          5     -999               0
##  2 HQN-Pakistan1974          4     -999               0
##  3 HQN-Pakistan1975          4     -999               0
##  4 HQN-Pakistan1976          4     -999               0
##  5 HQN-Pakistan1977          5     -999               0
##  6 HQN-Pakistan1978          5     -999               0
##  7 HQN-Pakistan1979          5     -999               0
##  8 HQN-Pakistan1980          5     -999               0
##  9 HQN-Pakistan1981          5     -999               0
## 10 HQN-Pakistan1982          5     -999               0
## # ... with 34 more rows
```

```
aosa_notParty[aosa_notParty$agnameobsyear == "HQN-Pakistan2014",
    "LCfiveyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "HQN-Pakistan2015",
    "LCfiveyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "HQN-Pakistan2016",
    "LCfiveyr_filter"] <- 0

## Fourth, we will reconfirm that the number of years adds up

sum(as.numeric(unlist(aosaLLC$notParty_yrs))) == length(unlist(aosa_notParty[aosa_notParty$LCfiveyr_fil
    1, "agnameobsyear"]))
```

```
## [1] FALSE
```

```
# Ten year LLC

## First, the dyad-years set seems to contain one additional
## dyad than the LLC set

length(unique(aosa_notParty[aosa_notParty$LCtenyr_filter == 1,
    ]$agname))
```

```
## [1] 24
```

```
length(unique(aosaLLC_over10yrs$agname))
```

```
## [1] 23
```

```
## Second, this dyad contained in the dyad-years set seems to
## be the MNG
```

```r
setdiff(unique(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1, ]$agname), unique(aosaLLC_over10yrs$agname))
```

```
## [1] "MNG"
```

```r
setdiff(unique(aosaLLC_over10yrs$agname), unique(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1, ]$agname))
```

```
## character(0)
```

```r
## Third, for the MNG, the years 2008 to 2016 were coded as
## LLC due to the cutoff at 2016

aosa_notParty[aosa_notParty$agname == "MNG", c("agnameobsyear",
    "armedorder", "neworder", "LCtenyr_filter")]
```

```
## # A tibble: 13 x 4
##    agnameobsyear armedorder neworder LCtenyr_filter
##    <chr>               <dbl>    <dbl>          <dbl>
##  1 MNG2004                 2     -999              0
##  2 MNG2005                 2     -999              0
##  3 MNG2006                 2        4              0
##  4 MNG2007                 4        5              0
##  5 MNG2008                 4     -999              1
##  6 MNG2009                 4     -999              1
##  7 MNG2010                 4     -999              1
##  8 MNG2011                 4     -999              1
##  9 MNG2012                 4     -999              1
## 10 MNG2013                 4     -999              1
## 11 MNG2014                 4     -999              1
## 12 MNG2015                 4     -999              1
## 13 MNG2016                 4     -999              1
```

```r
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2008", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2009", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2010", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2011", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2012", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2013", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2014", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2015", "LCtenyr_filter"] <- 0
aosa_notParty[aosa_notParty$agnameobsyear == "MNG2016", "LCtenyr_filter"] <- 0

## Fourth, we will reconfirm that the number of years adds up

sum(as.numeric(unlist(aosaLLC_over10yrs$notParty_yrs))) == length(unlist(aosa_notParty[aosa_notParty$LC
    1, "agnameobsyear"]))
```

```
## [1] TRUE
```

3. Preparation: Dataset for Dyad-Year Analysis

This section prepares the dataset used for analysis when the "dyad-year" is the unit of observation.

First, we'll add in the variables that might be useful for the analysis. Not all variables will be represented in

the final figures and tables.

```
# Armed Group Goals

maximalGoals <- as.numeric((aosa_notParty$aggoals == 1 | aosa_notParty$aggoals2 ==
    1) | (aosa_notParty$aggoals == 3 | aosa_notParty$aggoals2 ==
    3))

peripheryGoals <- as.numeric((aosa_notParty$aggoals == 1 | aosa_notParty$aggoals2 ==
    1) | (aosa_notParty$aggoals == 2 | aosa_notParty$aggoals2 ==
    2))

aosa_notParty <- cbind(aosa_notParty, maximalGoals, peripheryGoals)


# Political and Organizational Characteristics of Armed
# Groups

notRebel <- as.numeric(aosa_notParty$agselfID != 3)

formalPolpar <- as.numeric(aosa_notParty$polpar == 2 | aosa_notParty$polpar ==
    3)

someParGov <- as.numeric(aosa_notParty$pargov == 2 | aosa_notParty$pargov ==
    3)

aosa_notParty <- cbind(aosa_notParty, notRebel, formalPolpar,
    someParGov)


# Fixed Effects and Control Variables

post1988 <- as.numeric(aosa_notParty$obsyear > 1988)

aosa_notParty <- cbind(aosa_notParty, post1988)
```

Second, we'll prepare filters to indicate:

- If the termination was incorporation or disarmament
- If the Indian dyad-years occurred in Northeastern States
- If the Burmese dyad-years occurred with ethnonational cleavages

```
## Indicates whether or not the termination Incorporation or
## Disarmament

termFilter <- as.numeric(aosa_notParty$terminateform == 2 | aosa_notParty$terminateform ==
    4)

aosa_notParty <- cbind(aosa_notParty, termFilter)

## Indicates if the armed group was in India's Northeast
indiaNortheast <- as.numeric(aosa_notParty$religion_spec == "Northeast")

## Indicates if the armed group was Ethnonational in Myanmar
burmaEthnonational <- as.numeric(aosa_notParty$AG_cleavage ==
```

```
    "Chin" | aosa_notParty$AG_cleavage == "Kachin" | aosa_notParty$AG_cleavage ==
    "Karen" | aosa_notParty$AG_cleavage == "Karenni" | aosa_notParty$AG_cleavage ==
    "Kokang" | aosa_notParty$AG_cleavage == "Mon" | aosa_notParty$AG_cleavage ==
    "Naga" | aosa_notParty$AG_cleavage == "Palaung" | aosa_notParty$AG_cleavage ==
    "Pao" | aosa_notParty$AG_cleavage == "Rakhine" | aosa_notParty$AG_cleavage ==
    "Shan")

aosa_notParty <- cbind(aosa_notParty, indiaNortheast, burmaEthnonational)
```

4. Preparation: Datatset for Dyad Analysis

This section prepares the dataset used for analysis when the "dyad" is the unit of observation.

Notice that I am using the dataset which excludes the mainstream political parties (aosa_notParty), in order to keep consistent with the previous analysis that pooled the dyad-years.

First, we'll add in the variables useful for the analysis. Not all variables will be represented in the final figures and tables.

```
## What is the armed group name (armed order name)?
dyadNames <- unique(aosa_notParty$agname)


# Time / armed order / LLC variables

## What is the duration of the dyad (count of years)?
vDuration <- setNames(vector("list", length(dyadNames)), dyadNames)

## For how many years was the dyad an LLC (at least five
## years)?
vLLCfiveyr_yrs <- setNames(vector("list", length(dyadNames)),
    dyadNames)

## For how many years was the dyad an LLC (at least ten
## years)?
vLLCtenyr_yrs <- setNames(vector("list", length(dyadNames)),
    dyadNames)


# Conflict characteristic variables

## In what country does the dyad occur?
vCountry <- setNames(vector("list", length(dyadNames)), dyadNames)

## With which cleavage does armed group identify for most of
## the dyad?
vAG_cleavage <- setNames(vector("list", length(dyadNames)), dyadNames)

## With which religion does the armed group identify for most
## of the dyad?
vreligion_spec <- setNames(vector("list", length(dyadNames)),
    dyadNames)

## With which ideology does the armed group identify for most
```

```
## of the LLC?
vID_ideology <- setNames(vector("list", length(dyadNames)), dyadNames)

## For how many years did the group identify as leftist?
vLeftist <- setNames(vector("list", length(dyadNames)), dyadNames)

## For how many years did the group identify as religious?
vReligious <- setNames(vector("list", length(dyadNames)), dyadNames)

## For how many years did the group identify as linguistic?
vLinguistic <- setNames(vector("list", length(dyadNames)), dyadNames)

## For how many years did the group identify as tribal?
vTribal <- setNames(vector("list", length(dyadNames)), dyadNames)


# Goals of the armed group variables

## For what % of years of the dyad did the armed group espouse
## at least one maximalist goal?  aggoals OR aggoals2 == (1)
## Independence/complete secession OR (3) Control over the
## central government
vmaximalGoals_yrs <- setNames(vector("list", length(dyadNames)),
    dyadNames)

## For what % of years of the dyad did the armed group espouse
## at least one goal about the territorial periphery?  aggoals
## OR aggoals2 == (1) Independence/complete secession OR (2)
## Autonomy short of secession
vperipheryGoals_yrs <- setNames(vector("list", length(dyadNames)),
    dyadNames)


# Party and political activity variables

## For how many years of the LLC did the armed group NOT
## identify as 'Anti-State Rebel'?
vnotRebel_yrs <- setNames(vector("list", length(dyadNames)),
    dyadNames)
```

Second, run the loop to populate the variables with their values.

(Note: many errors called "number of items to replace is not a multiple of replacement length" will be returned by the following chunk, but it doesn't seem like this harms the dataset creation process).

```
for (ag in dyadNames) {
    vDuration[ag] <- as.numeric(sum(aosa_notParty$agname == ag))
    vLLCfiveyr_yrs[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$LCfiveyr_filter ==
        1, ]$agname == ag))
    vLLCtenyr_yrs[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$LCtenyr_filter ==
        1, ]$agname == ag))

    vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname ==
        ag, "Country"], Mode)
    vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname ==
```

```
        ag, "AG_cleavage"], Mode)
    vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname ==
        ag, "religion_spec"], Mode)
    vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname ==
        ag, "ID_ideology"], Mode)
    vLeftist[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$leftist ==
        1, ]$agname == ag))
    vReligious[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$religious ==
        1, ]$agname == ag))
    vLinguistic[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$linguistic ==
        1, ]$agname == ag))
    vTribal[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$tribal ==
        1, ]$agname == ag))

    vmaximalGoals_yrs[ag] <- as.numeric(sum(aosa_notParty[((aosa_notParty$aggoals ==
        1 | aosa_notParty$aggoals2 == 1) | (aosa_notParty$aggoals ==
        3 | aosa_notParty$aggoals2 == 3)), ]$agname == ag))
    vperipheryGoals_yrs[ag] <- as.numeric(sum(aosa_notParty[((aosa_notParty$aggoals ==
        1 | aosa_notParty$aggoals2 == 1) | (aosa_notParty$aggoals ==
        2 | aosa_notParty$aggoals2 == 2)), ]$agname == ag))

    vnotRebel_yrs[ag] <- as.numeric(sum(aosa_notParty[aosa_notParty$agselfID !=
        3, ]$agname == ag))

}
```

```
## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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```

```
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```

```
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```
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## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length
```

```
## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## number of items to replace is not a multiple of replacement length

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## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length
```

```
## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

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## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length
```

```
## Warning in vCountry[ag] <- sapply(aosa_notParty[aosa_notParty$agname == : number
## of items to replace is not a multiple of replacement length

## Warning in vAG_cleavage[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
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## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

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## number of items to replace is not a multiple of replacement length

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## of items to replace is not a multiple of replacement length

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## Warning in vreligion_spec[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length

## Warning in vID_ideology[ag] <- sapply(aosa_notParty[aosa_notParty$agname == :
## number of items to replace is not a multiple of replacement length
```

Third, create secondary variables

```
## Indicates if there was at least one year of LLC

vLLCfiveyr_filter <- as.numeric(vLLCfiveyr_yrs > 0)

vLLCtenyr_filter <- as.numeric(vLLCtenyr_yrs > 0)

## Indicates what percent of years during the dyad was spent
## in LLC

vLLCfiveyr_pctyrs <- round(as.numeric(vLLCfiveyr_yrs)/as.numeric(vDuration),
    3)

vLLCtenyr_pctyrs <- round(as.numeric(vLLCtenyr_yrs)/as.numeric(vDuration),
    3)

## Indicates if the armed group was in India's Northeast
vIndiaNortheast <- as.numeric(vreligion_spec == "Northeast")

## Indicates if the armed group was Ethnonational in Myanmar
vBurmaEthnonational <- as.numeric(vAG_cleavage == "Chin" | vAG_cleavage ==
    "Kachin" | vAG_cleavage == "Karen" | vAG_cleavage == "Karenni" |
    vAG_cleavage == "Kokang" | vAG_cleavage == "Mon" | vAG_cleavage ==
```

```
    "Naga" | vAG_cleavage == "Palaung" | vAG_cleavage == "Pao" |
    vAG_cleavage == "Rakhine" | vAG_cleavage == "Shan")

## Indicates what percent of the years during the dyad was
## spent in each ideology

vleftist_pctyrs <- round(as.numeric(vLeftist)/as.numeric(vDuration),
    3)

vreligious_pctyrs <- round(as.numeric(vReligious)/as.numeric(vDuration),
    3)

vlinguistic_pctyrs <- round(as.numeric(vLinguistic)/as.numeric(vDuration),
    3)

vtribal_pctyrs <- round(as.numeric(vTribal)/as.numeric(vDuration),
    3)

## Indicates if the dyad had at least one year in an ideology

vleftist_filter <- as.numeric(vleftist_pctyrs != 0)

vreligious_filter <- as.numeric(vreligious_pctyrs != 0)

vlinguistic_filter <- as.numeric(vlinguistic_pctyrs != 0)

vtribal_filter <- as.numeric(vtribal_pctyrs != 0)

## Indicates what percent of the years during the dyad was
## spent pursuing certain goals

vmaximalGoals_pctyrs <- round(as.numeric(vmaximalGoals_yrs)/as.numeric(vDuration),
    3)

vperipheryGoals_pctyrs <- round(as.numeric(vperipheryGoals_yrs)/as.numeric(vDuration),
    3)

## Indicates if the dyad had at least one year purusing
## certain goals

vmaximalGoals_filter <- as.numeric(vmaximalGoals_pctyrs != 0)

vperipheryGoals_filter <- as.numeric(vperipheryGoals_pctyrs !=
    0)

## Indicates what percent of the years during the dyad was
## spent as a non-rebel

vnotRebel_pctyrs <- round(as.numeric(vnotRebel_yrs)/as.numeric(vDuration),
    3)
```

Fourth, assemble the matrix of dyads

```
aosaDyads_notParty <- cbind(as.numeric(vDuration), as.numeric(vLLCfiveyr_filter),
    as.numeric(vLLCtenyr_filter), as.numeric(vLLCfiveyr_pctyrs),
    as.numeric(vLLCtenyr_pctyrs), vCountry, vAG_cleavage, as.numeric(vBurmaEthnonational),
    vreligion_spec, as.numeric(vIndiaNortheast), vID_ideology,
    as.numeric(vleftist_pctyrs), as.numeric(vreligious_pctyrs),
    as.numeric(vlinguistic_pctyrs), as.numeric(vtribal_pctyrs),
    as.numeric(vleftist_filter), as.numeric(vreligious_filter),
    as.numeric(vlinguistic_filter), as.numeric(vtribal_filter),
    as.numeric(vmaximalGoals_pctyrs), as.numeric(vperipheryGoals_pctyrs),
    as.numeric(vmaximalGoals_filter), as.numeric(vperipheryGoals_filter),
    as.numeric(vnotRebel_pctyrs))

aosaDyads_notParty <- (data.frame(row.names(aosaDyads_notParty),
    aosaDyads_notParty, row.names = NULL))

colnames(aosaDyads_notParty) <- c("agname", "Dyad_yrs", "LLCfiveyr_filter",
    "LLCtenyr_filter", "LLCfiveyr_pctyrs", "LLCtenyr_pctyrs",
    "Country", "AG_cleavage", "burmaEthnonational", "religion_spec",
    "indiaNortheast", "ID_ideology", "leftist_pctyrs", "religious_pctyrs",
    "linguistic_pctyrs", "tribal_pctyrs", "leftist_filter", "religious_filter",
    "linguistic_filter", "tribal_filter", "maximalGoals_pctyrs",
    "peripheryGoals_pctyrs", "maximalGoals_filter", "peripheryGoals_filter",
    "notRebel_pctyrs")
```

5. Preparation: List of Terminations (Incorporation and Disarmament)

First, we'll perform an initial subset on the aosa_notParty dataset:

- Include only terminations in the form of Incorporation (2) or Disarmament (4)

Simultaneously, we will only keep variables that might be useful for analysis.

```
aosaTerm <- aosa_notParty[(aosa_notParty[, "terminateform"] ==
    2 | aosa_notParty[, "terminateform"] == 4), c("agname", "obsyear",
    "terminateform", "Country", "AG_cleavage", "religion_spec",
    "ID_ideology", "aggoals", "aggoals2", "agselfID", "agpolwing",
    "polpar", "pargov", "agillicit", "agtax", "peacedealonset",
    "peacedealongoing", "ceasefireonset", "ceasefireongoing",
    "amnesty", "LCtenyr_filter", "agextsupport_general", "agextsupport_alleged")]

aosaTerm$terminateform[aosaTerm$terminateform == 2] <- "Incorporation"

aosaTerm$terminateform[aosaTerm$terminateform == 4] <- "Disarmament"
```

Second, we will prepare the list of terminations

```
aosaTerm <- cbind(paste(aosaTerm$agname, " with ", aosaTerm$Country,
    " (", aosaTerm$obsyear, ") - ", aosaTerm$terminateform, sep = ""),
    aosaTerm)

colnames(aosaTerm)[1] <- "Termination"

aosaTerm <- aosaTerm[order(aosaTerm[, "terminateform"], decreasing = FALSE),
```

```
    ]

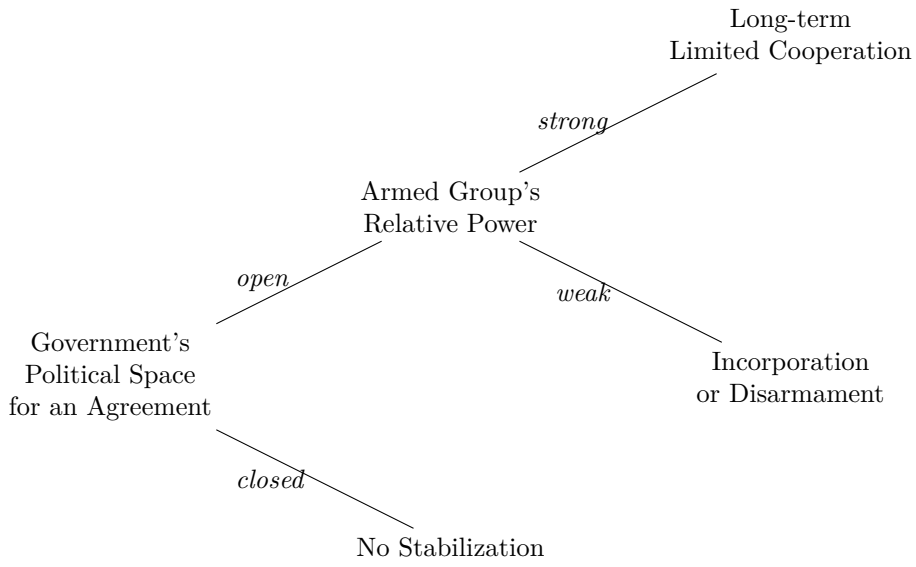
(terminations <- aosaTerm$Termination)
```

```
##  [1] "AISSF(K) with India (1987) - Disarmament"
##  [2] "AISSF with India (1987) - Disarmament"
##  [3] "ATTF-Tribal with India (1993) - Disarmament"
##  [4] "GA with Myanmar (2001) - Disarmament"
##  [5] "JSD with Bangladesh (1980) - Disarmament"
##  [6] "ABSU with India (1993) - Incorporation"
##  [7] "ANVC with India (2014) - Incorporation"
##  [8] "ANVC-B with India (2014) - Incorporation"
##  [9] "APMSO with Pakistan (1984) - Incorporation"
## [10] "BLTF with India (2003) - Incorporation"
## [11] "DHD-J with India (2012) - Incorporation"
## [12] "DHD-N with India (2012) - Incorporation"
## [13] "DKBA with Myanmar (2009) - Incorporation"
## [14] "DNSF with India (1995) - Incorporation"
## [15] "IKH with India (1997) - Incorporation"
## [16] "JKLF-I with India (1995) - Incorporation"
## [17] "JRB with Bangladesh (1975) - Incorporation"
## [18] "KCP-CM with India (2012) - Incorporation"
## [19] "KCP-KKN with India (2014) - Incorporation"
## [20] "KCP-L with India (2013) - Incorporation"
## [21] "KCP-MCL with India (2011) - Incorporation"
## [22] "KCP-NK with India (2014) - Incorporation"
## [23] "KCP-T with India (2012) - Incorporation"
## [24] "KNDA with Myanmar (1996) - Incorporation"
## [25] "KNPLF with Myanmar (1994) - Incorporation"
## [26] "MNF with India (1986) - Incorporation"
## [27] "MPF with Myanmar (1958) - Incorporation"
## [28] "NDA-K with Myanmar (2009) - Incorporation"
## [29] "NNC with India (1975) - Incorporation"
## [30] "PSLF with Myanmar (2005) - Incorporation"
## [31] "PULF(UF) with India (2012) - Incorporation"
## [32] "RGN with India (1973) - Incorporation"
## [33] "TNV with India (1988) - Incorporation"
## [34] "UALA with India (2016) - Incorporation"
## [35] "UPDS with India (2011) - Incorporation"
## [36] "UPF with India (2014) - Incorporation"
## [37] "UPPK with India (2013) - Incorporation"
## [38] "URF with India (2013) - Incorporation"
```

6. Figures

Figure 1: Conflict Stabilization Trajectories

Figure 1: Conflict Stabilization Trajectories



Figures 2 and 4: LLC, Incorporation, and Disarmament Onsets in Myanmar (India)

Yearly LLC onsets (10+ years), by country

```
# Prepare vectors to populate with onsets

yrvec <- c(1946:2016)

LLCheights <- c(1:length(yrvec))

names(LLCheights) <- yrvec

# India

for (i in 1:length(yrvec)) {

    LLCheights[i] <- length(aosaLLC_over10yrs[aosaLLC_over10yrs$LLC_start ==
        yrvec[i] & aosaLLC_over10yrs$Country == "India", ]$agname)

}

LLCStartCount_India <- LLCheights

# Myanmar

for (i in 1:length(yrvec)) {

    LLCheights[i] <- length(aosaLLC_over10yrs[aosaLLC_over10yrs$LLC_start ==
        yrvec[i] & aosaLLC_over10yrs$Country == "Myanmar", ]$agname)
```

```
}

LLCStartCount_Myanmar <- LLCheights

# Pakistan

## there are only 2 which occur in 2001 and 2002 respectively

# Bangladesh

## none
```

Yearly incorporations and disarmaments, by country

```
# Prepare vectors to populate with onsets

yrvec <- c(1946:2016)

Termheights <- c(1:length(yrvec))

names(Termheights) <- yrvec

# India

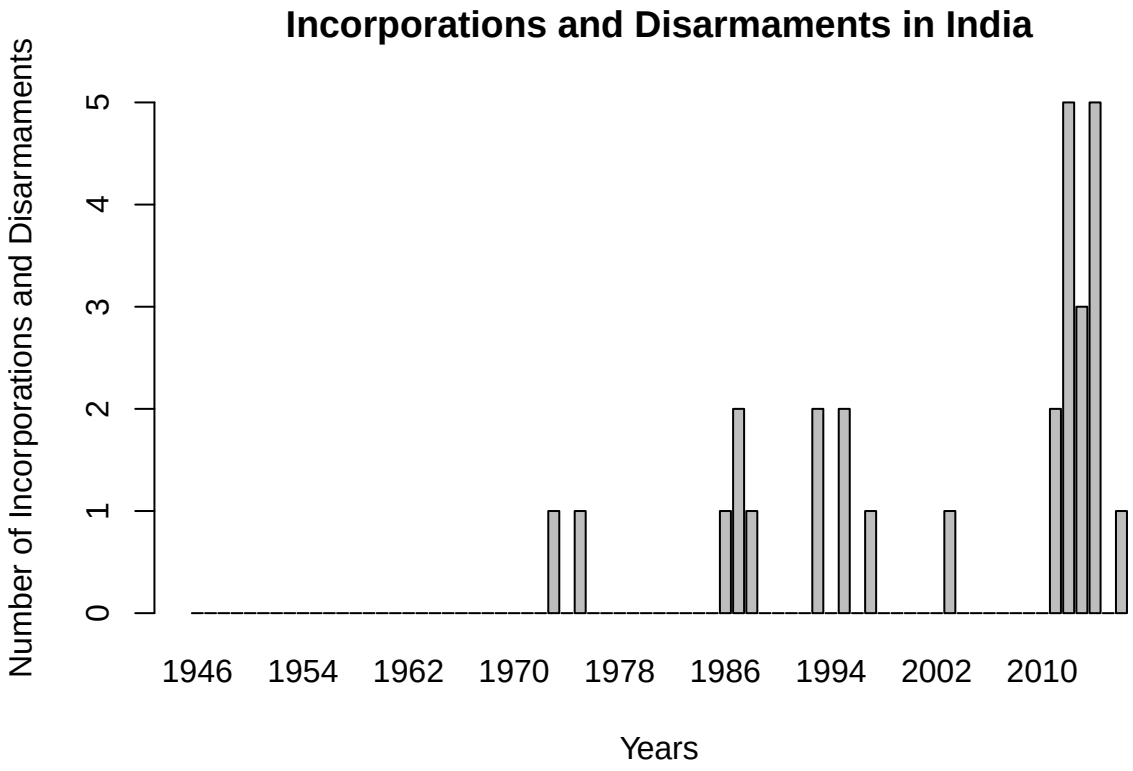
for (i in 1:length(yrvec)) {

    Termheights[i] <- length(aosaTerm[aosaTerm$obsyear == yrvec[i] &
        aosaTerm$Country == "India", ]$agname)

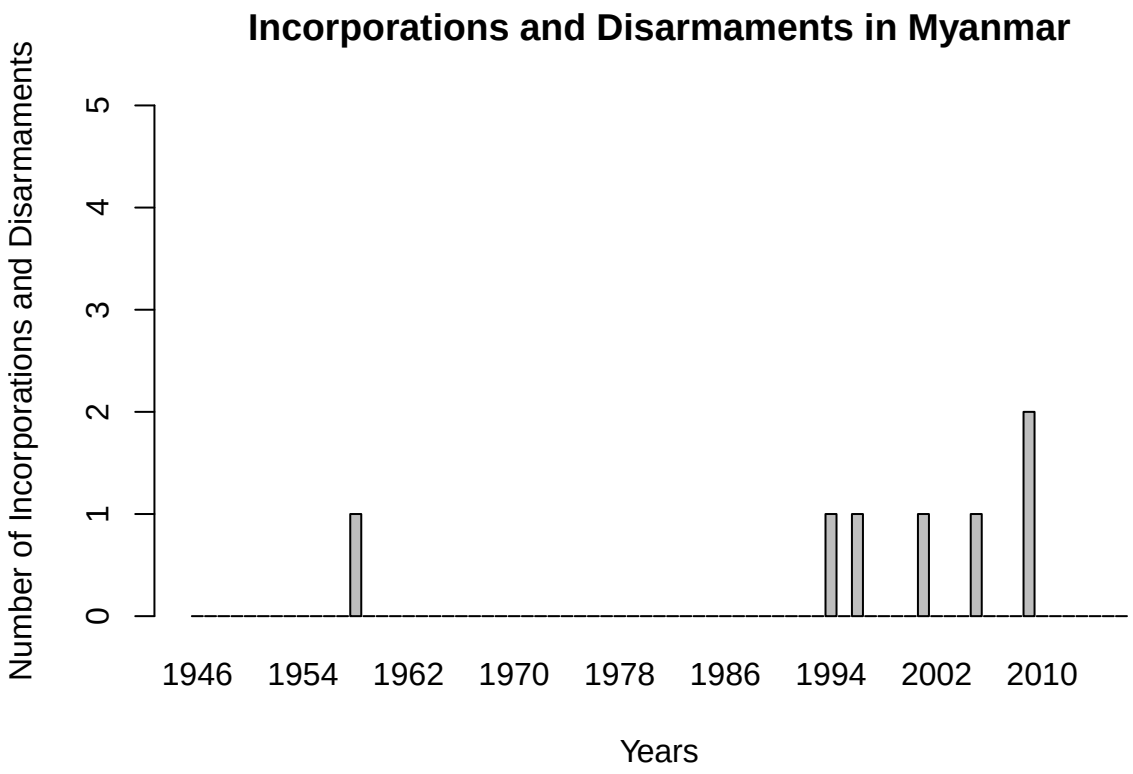
}

TermCount_India <- Termheights

barplot(TermCount_India, main = "Incorporations and Disarmaments in India",
    xlab = "Years", ylab = "Number of Incorporations and Disarmaments",
    ylim = c(0, 5))
```




```r
# Myanmar

for (i in 1:length(yrvec)) {

    Termheights[i] <- length(aosaTerm[aosaTerm$obsyear == yrvec[i] &
        aosaTerm$Country == "Myanmar", ]$agname)

}

TermCount_Myanmar <- Termheights

barplot(TermCount_Myanmar, main = "Incorporations and Disarmaments in Myanmar",
    xlab = "Years", ylab = "Number of Incorporations and Disarmaments",
    ylim = c(0, 5))
```

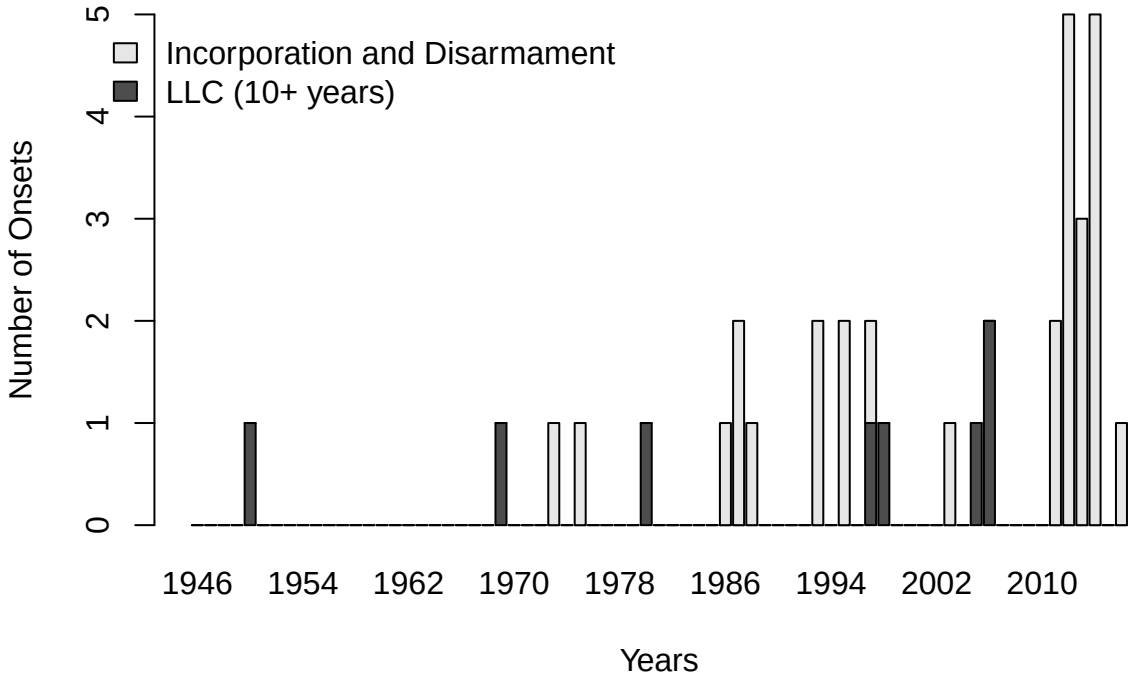



```
# Pakistan

## there is only 1 which occurs in 1984

# Bangladesh

## there are only 2 which occur in 1975 and 1980 respectively
```

Onset of both LLCs and Incorporations/Disarmaments for India and Myanmar

```
# India

barplot(rbind(LLCStartCount_India, TermCount_India), main = "Figure 4: LLC, Incorporation, and Disarmame
    xlab = "Years", ylab = "Number of Onsets", ylim = c(0, 5),
    legend = c("LLC (10+ years)", "Incorporation and Disarmament"),
    args.legend = list(bty = "n", x = 40, y = 5))
```

Figure 4: LLC, Incorporation, and Disarmament Onsets in India




```
# Myanmar

barplot(rbind(LLCStartCount_Myanmar, TermCount_Myanmar), main = "Figure 2: LLC, Incorporation, and Disa
    xlab = "Years", ylab = "Number of Onsets", ylim = c(0, 5),
    legend = c("LLC (10+ years)", "Incorporation and Disarmament"),
    args.legend = list(bty = "n", x = 40, y = 5))
```

Figure 2: LLC, Incorporation, and Disarmament Onsets in Myanma

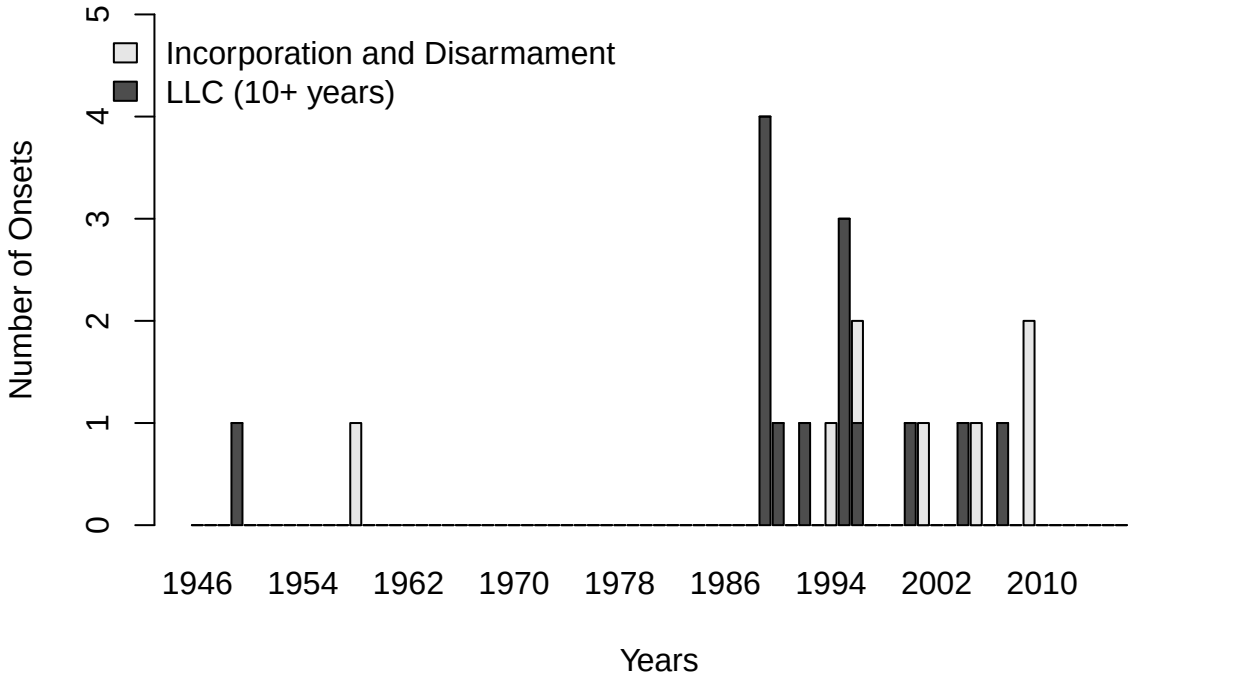
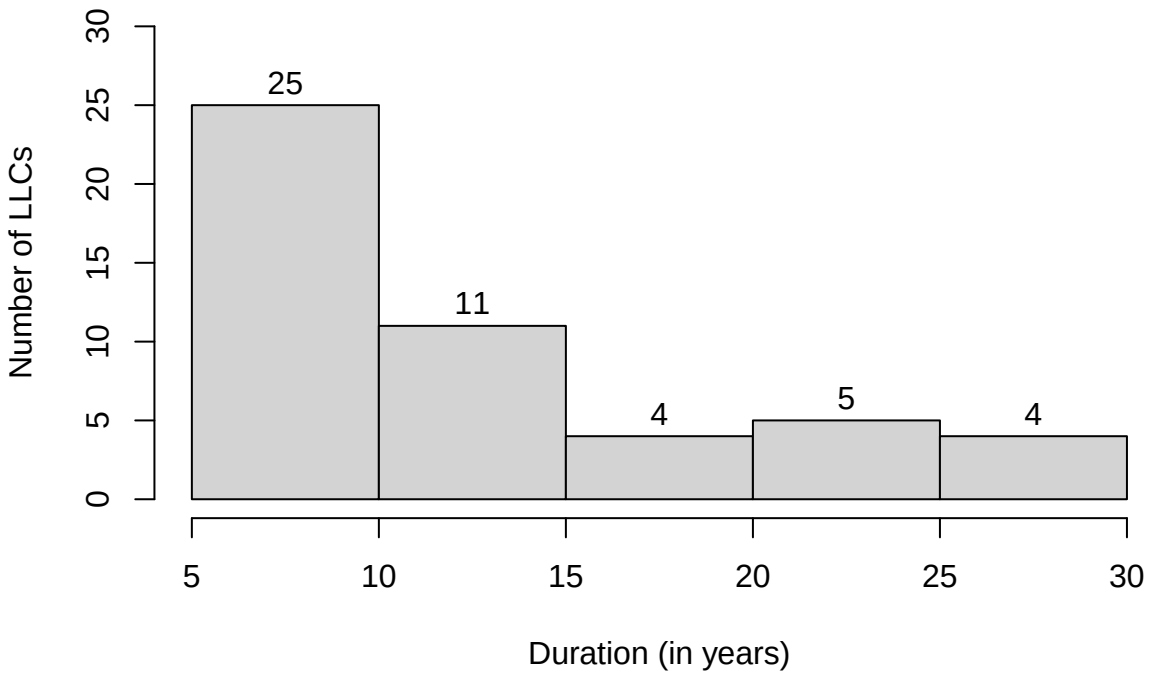
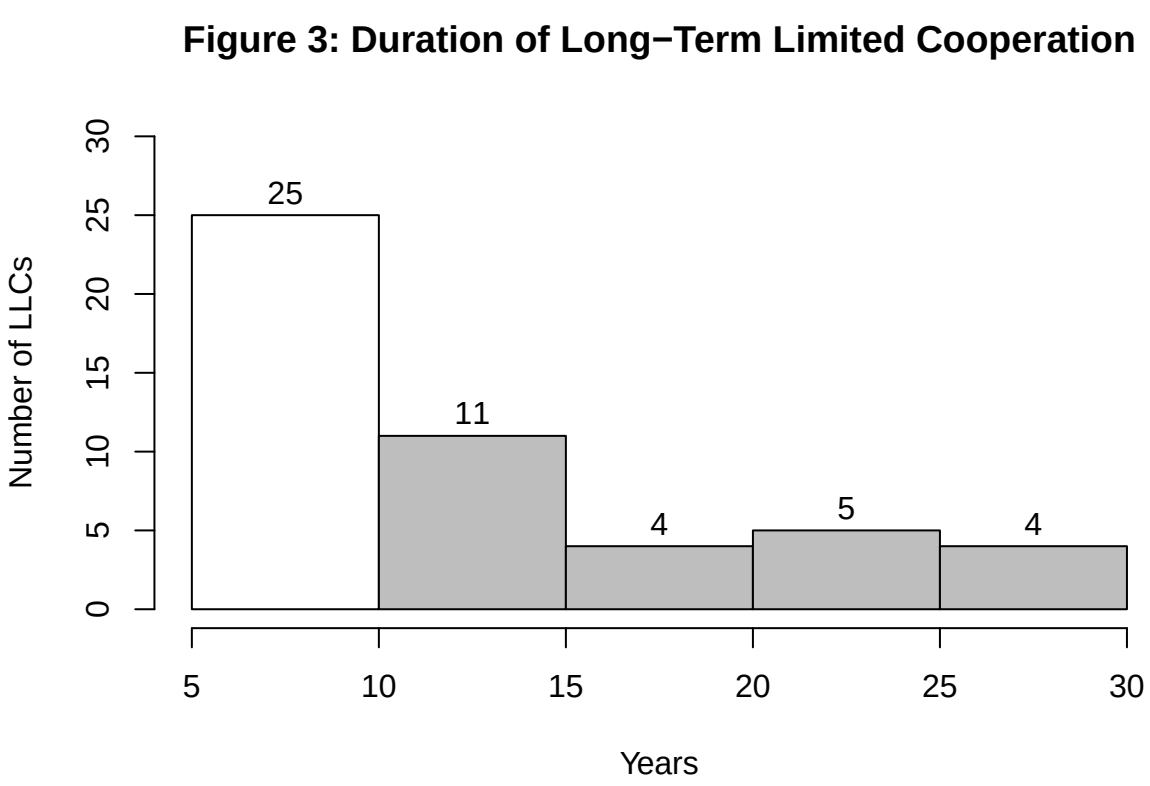


Figure 3: Duration of Long-Term Limited Cooperation

```
aosaLLC_hist <- hist(as.numeric(aosaLLC$LLC_yrs), main = "Figure 3: Duration of Long-Term Limited Coope
    xlab = "Duration (in years)", ylab = "Number of LLCs", ylim = c(0,
        30), right = FALSE)

text(aosaLLC_hist$mids, aosaLLC_hist$counts, labels = aosaLLC_hist$counts,
    adj = c(0.5, -0.5))
```




```
aosaLLC_hist <- plot(aosaLLC_hist, col = c("white", "grey")[cut(aosaLLC_hist$breaks,
    c(5, 9, 30))], main = "Figure 3: Duration of Long-Term Limited Cooperation",
    xlab = "Years", ylab = "Number of LLCs", ylim = c(0, 30),
    labels = TRUE)
```



7. Tables

Table 1: Armed Orders in South Asia

"Raw" Dataset:

See section: "1.A. Descriptive statistics of"raw" dataset"

Analyzed Subset:

```
# Earliest year

min(aosa_notParty$obsyear)
```

```
## [1] 1946
```

```
# Latest year

max(aosa_notParty$obsyear)
```

```
## [1] 2016
```

```
# Countries

length(unique(aosa_notParty$Country))
```

```
## [1] 4
```

```r
# Dyads

length(unique(aosa_notParty$agname))
```

```
## [1] 187
```

```r
# Dyad-years

length(aosa_notParty$agname)
```

```
## [1] 2754
```

```r
## Total War as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 1, ]$agname)/length(aosa_notParty$agname),
    2)
```

```
## [1] 0.15
```

```r
## Containment as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 2, ]$agname)/length(aosa_notParty$agname),
    2)
```

```
## [1] 0.51
```

```r
## Hostilities as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 3, ]$agname)/length(aosa_notParty$agname),
    2)
```

```
## [1] 0.01
```

```r
## Limited Cooperation as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 4, ]$agname)/length(aosa_notParty$agname),
    2)
```

```
## [1] 0.27
```

```r
## Alliance as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 5, ]$agname)/length(aosa_notParty$agname),
    2)
```

```
## [1] 0.06
```

```r
# Terminations

sum(aosa_notParty$terminate)
```

```
## [1] 126
```

```r
## Collapse as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 1, ]$terminate)/sum(aosa_notParty$terminate),
    2)
```

```
## [1] 0.6
```

```
## Incorporation as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 2, ]$terminate)/sum(aosa_notParty$terminate),
    2)
```

```
## [1] 0.26
```

```
## Absorption as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 3, ]$terminate)/sum(aosa_notParty$terminate),
    2)
```

```
## [1] 0.07
```

```
## Disarmament as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 4, ]$terminate)/sum(aosa_notParty$terminate),
    2)
```

```
## [1] 0.04
```

```
## Victory as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 5, ]$terminate)/sum(aosa_notParty$terminate),
    2)
```

```
## [1] 0.02
```

Anti-State Rebels Sub-subset

```
# Earliest year

min(aosa_notParty[aosa_notParty$agselfID == 3, ]$obsyear)
```

```
## [1] 1947
```

```
# Latest year

max(aosa_notParty[aosa_notParty$agselfID == 3, ]$obsyear)
```

```
## [1] 2016
```

```
# Countries

length(unique(aosa_notParty[aosa_notParty$agselfID == 3, ]$Country))
```

```
## [1] 4
```

```
# Dyads

length(unique(aosa_notParty[aosa_notParty$agselfID == 3, ]$agname))
```

```
## [1] 125
```

```
# Dyad-years

length(aosa_notParty[aosa_notParty$agselfID == 3, ]$agname)
```

```
## [1] 1803
```

```
## Total War as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 1 & aosa_notParty$agselfID ==
    3, ]$agname)/length(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$agname), 2)
```

```
## [1] 0.2
```

```
## Containment as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 2 & aosa_notParty$agselfID ==
    3, ]$agname)/length(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$agname), 2)
```

```
## [1] 0.63
```

```
## Hostilities as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 3 & aosa_notParty$agselfID ==
    3, ]$agname)/length(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$agname), 2)
```

```
## [1] 0.02
```

```
## Limited Cooperation as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 4 & aosa_notParty$agselfID ==
    3, ]$agname)/length(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$agname), 2)
```

```
## [1] 0.15
```

```
## Alliance as % of Dyad-years

round(length(aosa_notParty[aosa_notParty$armedorder == 5 & aosa_notParty$agselfID ==
    3, ]$agname)/length(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$agname), 2)
```

```
## [1] 0
```

```
# Terminations

sum(aosa_notParty[aosa_notParty$agselfID == 3, ]$terminate)
```

```
## [1] 77
```

```
## Collapse as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 1 & aosa_notParty$agselfID ==
    3, ]$terminate)/sum(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$terminate), 2)
```

```
## [1] 0.65
```

```
## Incorporation as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 2 & aosa_notParty$agselfID ==
    3, ]$terminate)/sum(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$terminate), 2)
```

```
## [1] 0.18
```

```
## Absorption as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 3 & aosa_notParty$agselfID ==
    3, ]$terminate)/sum(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$terminate), 2)
```

```
## [1] 0.12
```

```
## Disarmament as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 4 & aosa_notParty$agselfID ==
    3, ]$terminate)/sum(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$terminate), 2)
```

```
## [1] 0.03
```

```
## Victory as % of Terminations

round(sum(aosa_notParty[aosa_notParty$terminateform == 5 & aosa_notParty$agselfID ==
    3, ]$terminate)/sum(aosa_notParty[aosa_notParty$agselfID ==
    3, ]$terminate), 2)
```

```
## [1] 0.01
```

Table 2: What Share of Dyad-Years had an Armed Group Espouse a Maximal Goal?

All Countries

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0, ]$maximalGoals)/length(aosa_notParty[aosa_no
    0, ]$maximalGoals), 2)
```

```
## [1] 0.47
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1, ]$maximalGoals)/length(aosa_notParty[aosa_no
    1, ]$maximalGoals), 2)
```

```
## [1] 0.07
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1, ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1, ]$maximalGoals), 2)
```

```
## [1] 0.49
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1, ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1, ]$maximalGoals), 2)
```

```
## [1] 0.16
```

India

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "India", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "India", ]$maximalGoals), 2)
```

```
## [1] 0.62
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "India", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "India", ]$maximalGoals), 2)
```

```
## [1] 0.22
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilter
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$maximalGoals), 2)
```

```
## [1] 0.59
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilter
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$maximalGoals), 2)
```

```
## [1] 0.14
```

Myanmar

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Myanmar", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Myanmar", ]$maximalGoals),
    2)
```

```
## [1] 0.38
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Myanmar", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Myanmar", ]$maximalGoals),
    2)
```

```
## [1] 0
```

```
# Termination Dyad-Years

## No Stabilization
```

```
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilt
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$maximalGoals), 2)
```

```
## [1] 0.52
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFilt
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$maximalGoals), 2)
```

```
## [1] 0.14
```

Pakistan

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Pakistan", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Pakistan", ]$maximalGoals),
    2)
```

```
## [1] 0.24
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Pakistan", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Pakistan", ]$maximalGoals),
    2)
```

```
## [1] 0
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFil
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan", ]$maximalGoals), 2)
```

```
## [1] 0.25
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFil
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan", ]$maximalGoals), 2)
```

```
## [1] 0
```

Bangladesh

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Bangladesh", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
```

```
    0 & aosa_notParty$Country == "Bangladesh", ]$maximalGoals),
    2)
```

```
## [1] 0.41
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Bangladesh", ]$maximalGoals),
    2)
```

```
## [1] NaN
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFi
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$maximalGoals), 2)
```

```
## [1] 0.33
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh", ]$maximalGoals)/length(aosa_notParty[aosa_notParty$termFi
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$maximalGoals), 2)
```

```
## [1] 0.5
```

Table 3: What Share of Dyads or Dyad-Years had an Armed Group with these Characteristics? (India)

Territory Goals

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "India", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "India", ]$peripheryGoals),
    2)
```

```
## [1] 0.73
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "India", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "India", ]$peripheryGoals),
    2)
```

```
## [1] 0.53
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$termFilt
```

```
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$peripheryGoals), 2)
```

```
## [1] 0.59
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$termFilt
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$peripheryGoals), 2)
```

```
## [1] 0.64
```

North-East

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$indiaNortheast))/length(aosaDyads_notPart
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$indiaNortheast),
    2)
```

```
## [1] 0.66
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$indiaNortheast))/length(aosaDyads_notPart
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$indiaNortheast),
    2)
```

```
## [1] 0.71
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$indiaNortheast)/length(aosa_notParty[aosa_notParty$termFilt
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$indiaNortheast), 2)
```

```
## [1] 0.39
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$indiaNortheast)/length(aosa_notParty[aosa_notParty$termFilt
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$indiaNortheast), 2)
```

```
## [1] 0.86
```

Leftist ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$leftist_filter))/length(aosaDyads_notPart
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$leftist_filter),
    2)
```

```
## [1] 0.31
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$leftist_filter))/length(aosaDyads_notPart
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$leftist_filter),
    2)
```

```
## [1] 0.29
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$leftist)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$leftist), 2)
```

```
## [1] 0.27
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$leftist)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$leftist), 2)
```

```
## [1] 0.32
```

Religious ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$religious_filter))/length(aosaDyads_notPa
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$religious_filter),
    2)
```

```
## [1] 0.28
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$religious_filter))/length(aosaDyads_notPa
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$religious_filter),
    2)
```

```
## [1] 0.43
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$religious)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$religious), 2)
```

```
## [1] 0.36
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$religious)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$religious), 2)
```

```
## [1] 0.11
```

Ethno-Ling ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$linguistic_filter))/length(aosaDyads_notPa
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$linguistic_filter),
    2)
```

```
## [1] 0.45
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$linguistic_filter))/length(aosaDyads_notPa
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$linguistic_filter),
    2)
```

```
## [1] 0.43
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$linguistic)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$linguistic), 2)
```

```
## [1] 0.43
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$linguistic)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$linguistic), 2)
```

```
## [1] 0.39
```

Tribal ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$tribal_filter))/length(aosaDyads_notParty
    0) & as.logical(aosaDyads_notParty$Country == "India"), ]$tribal_filter),
    2)
```

```
## [1] 0.38
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
```

```
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$tribal_filter))/length(aosaDyads_notParty
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$tribal_filter),
    2)
```

```
## [1] 0.71
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$tribal)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$tribal), 2)
```

```
## [1] 0.23
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$tribal)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$tribal), 2)
```

```
## [1] 0.5
```

Number of Observations

```
# Dyads

## Total
length(aosaDyads_notParty[as.logical(aosaDyads_notParty$Country ==
    "India"), ]$indiaNortheast)
```

```
## [1] 103
```

```
## Stabilization
length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "India"), ]$indiaNortheast)
```

```
## [1] 7
```

```
# Dyad-Years

## Total
length(aosa_notParty[aosa_notParty$Country == "India", ]$peripheryGoals)
```

```
## [1] 1233
```

```
## Stabilization
length(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "India", ]$peripheryGoals)
```

```
## [1] 130
```

```
# Termination Dyad-Years

## Total
length(aosa_notParty[aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$peripheryGoals)
```

```
## [1] 72
```

```
## Stabilization
length(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$peripheryGoals)
```

```
## [1] 28
```

Table 4: What Share of Dyad-Years had a Peace Deal Onset?

All Countries

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0, ]$peacedealonset)/length(aosa_notParty[aosa_
    0, ]$peacedealonset), 2)
```

```
## [1] 0.01
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1, ]$peacedealonset)/length(aosa_notParty[aosa_
    1, ]$peacedealonset), 2)
```

```
## [1] 0
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1, ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1, ]$peacedealonset), 2)
```

```
## [1] 0
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1, ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1, ]$peacedealonset), 2)
```

```
## [1] 0.32
```

India

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "India", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "India", ]$peacedealonset),
    2)
```

```
## [1] 0.01
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "India", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "India", ]$peacedealonset),
    2)
```

```
## [1] 0.01
```

```r
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFilt
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$peacedealonset), 2)
```

```
## [1] 0
```

```r
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFilt
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India", ]$peacedealonset), 2)
```

```
## [1] 0.39
```

Myanmar

```r
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Myanmar", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Myanmar", ]$peacedealonset),
    2)
```

```
## [1] 0
```

```r
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Myanmar", ]$peacedealonset),
    2)
```

```
## [1] 0
```

```r
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFi
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peacedealonset), 2)
```

```
## [1] 0
```

```r
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termFi
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peacedealonset), 2)
```

```
## [1] 0.14
```

Pakistan

```r
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Pakistan", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Pakistan", ]$peacedealonset),
    2)
```

```
## [1] 0
```

```r
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Pakistan", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Pakistan", ]$peacedealonset),
    2)
```

```
## [1] 0
```

```r
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termF
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan", ]$peacedealonset), 2)
```

```
## [1] 0
```

```r
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$termF
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan", ]$peacedealonset), 2)
```

```
## [1] 0
```

Bangladesh

```r
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Bangladesh", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Bangladesh", ]$peacedealonset),
    2)
```

```
## [1] 0.01
```

```r
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Bangladesh", ]$peacedealonset),
    2)
```

```
## [1] NaN
```

```r
# Termination Dyad-Years

## No Stabilization
```

```
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$ter
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$peacedealonset), 2)
```

```
## [1] 0
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh", ]$peacedealonset)/length(aosa_notParty[aosa_notParty$ter
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh", ]$peacedealonset), 2)
```

```
## [1] 0
```

Table 5: QCA of Incorporation and Disarmament Observations

Formed from the case studies (see the Appendix)

Table 6: What Share of Dyad-Years had an Ongoing Ceasefire?

All Countries

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    0 & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.1
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    1 & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.62
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.09
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$ceasefireongoing !=
```

```
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.49
```

India

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "India" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "India" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.11
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "India" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "India" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.44
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.09
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "India" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "India" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.57
```

Myanmar

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Myanmar" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
```

```
    0 & aosa_notParty$Country == "Myanmar" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.06
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Myanmar" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Myanmar" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.78
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.05
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.33
```

Pakistan

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Pakistan" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Pakistan" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.12
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Pakistan" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Pakistan" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
```

```
    2)
```

```
## [1] 0
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0.15
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Pakistan" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Pakistan" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0
```

Bangladesh

```
# Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Bangladesh" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Bangladesh" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] 0.18
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Bangladesh" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Bangladesh" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing),
    2)
```

```
## [1] NaN
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
```

```
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Bangladesh" & aosa_notParty$ceasefireongoing !=
    -999 & is.na(aosa_notParty$ceasefireongoing) == FALSE, ]$ceasefireongoing)/length(aosa_notParty[aosa
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Bangladesh" & aosa_notParty$ceasefireongoing != -999 & is.na(aosa_notParty$ceasefireongoing) ==
    FALSE, ]$ceasefireongoing), 2)
```

```
## [1] 0
```

Table 7: QCA of Long-Term Limited Cooperation Observations

Formed from the case studies (see the Appendix)

Table 8: What Share of Dyads or Dyad-Years had an Armed Group with these Characteristics? (Myanmar)

Territory Goals

```
# Dyad-Years

# No Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 0 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    0 & aosa_notParty$Country == "Myanmar", ]$peripheryGoals),
    2)
```

```
## [1] 0.76
```

```
# Stabilization
round(sum(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$LCtenyr_filter ==
    1 & aosa_notParty$Country == "Myanmar", ]$peripheryGoals),
    2)
```

```
## [1] 0.94
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$termFil
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals), 2)
```

```
## [1] 0.81
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$peripheryGoals)/length(aosa_notParty[aosa_notParty$termFil
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals), 2)
```

```
## [1] 0.57
```

Ethno-National

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$burmaEthnonational))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$burmaEthnonational), 2)
```

```
## [1] 0.81
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$burmaEthnonational))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$burmaEthnonational), 2)
```

```
## [1] 0.79
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$burmaEthnonational)/length(aosa_notParty[aosa_notParty$te
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$burmaEthnonational), 2)
```

```
## [1] 0.67
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$burmaEthnonational)/length(aosa_notParty[aosa_notParty$te
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$burmaEthnonational), 2)
```

```
## [1] 1
```

Leftist ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$leftist_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$leftist_filter), 2)
```

```
## [1] 0.19
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$leftist_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$leftist_filter), 2)
```

```
## [1] 0.36
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$leftist)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$leftist), 2)
```

```
## [1] 0.19
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$leftist)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$leftist), 2)
```

```
## [1] 0.29
```

Religious ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$religious_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$religious_filter), 2)
```

```
## [1] 0.19
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$religious_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$religious_filter), 2)
```

```
## [1] 0
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$religious)/length(aosa_notParty[aosa_notParty$termFilter =
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$religious), 2)
```

```
## [1] 0.1
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$religious)/length(aosa_notParty[aosa_notParty$termFilter =
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$religious), 2)
```

```
## [1] 0.29
```

Ethno-Ling ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$linguistic_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$linguistic_filter), 2)
```

```
## [1] 0.74
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$linguistic_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$linguistic_filter), 2)
```

```
## [1] 0.71
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$linguistic)/length(aosa_notParty[aosa_notParty$termFilter
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$linguistic), 2)
```

```
## [1] 0.62
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$linguistic)/length(aosa_notParty[aosa_notParty$termFilter
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$linguistic), 2)
```

```
## [1] 0.71
```

Tribal ID

```
# Dyads

# No Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$tribal_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    0) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$tribal_filter), 2)
```

```
## [1] 0.37
```

```
# Stabilization
round(sum(as.numeric(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$tribal_filter))/length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$tribal_filter), 2)
```

```
## [1] 0.36
```

```
# Termination Dyad-Years

## No Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 0 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$tribal)/length(aosa_notParty[aosa_notParty$termFilter ==
    0 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$tribal), 2)
```

```
## [1] 0.14
```

```
## Stabilization
round(sum(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$tribal)/length(aosa_notParty[aosa_notParty$termFilter ==
    1 & aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$tribal), 2)
```

```
## [1] 0.86
```

Number of Observations

```
# Dyads

## Total
length(aosaDyads_notParty[as.logical(aosaDyads_notParty$Country ==
    "Myanmar"), ]$burmaEthnonational)
```

```
## [1] 41
```

```
## Stabilization
length(aosaDyads_notParty[as.logical(aosaDyads_notParty$LLCtenyr_filter ==
    1) & as.logical(aosaDyads_notParty$Country == "Myanmar"),
    ]$burmaEthnonational)
```

```
## [1] 14
```

```
# Dyad-Years

## Total
length(aosa_notParty[aosa_notParty$Country == "Myanmar", ]$peripheryGoals)
```

```
## [1] 945
```

```
## Stabilization
length(aosa_notParty[aosa_notParty$LCtenyr_filter == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals)
```

```
## [1] 247
```

```
# Termination Dyad-Years

## Total
length(aosa_notParty[aosa_notParty$terminate == 1 & aosa_notParty$Country ==
    "Myanmar", ]$peripheryGoals)
```

```
## [1] 28
```

```
## Stabilization
length(aosa_notParty[aosa_notParty$termFilter == 1 & aosa_notParty$terminate ==
    1 & aosa_notParty$Country == "Myanmar", ]$peripheryGoals)
```

```
## [1] 7
```

8. Other Queries and Calculations

8.A. Terminations coinciding with LLCs

```
# List of Incorporations and Disarmaments that coincide with
# LLCs

aosaTerm[aosaTerm$LCtenyr_filter == 1, ]
```

```
##                                Termination agname obsyear terminateform
## 141    ANVC with India (2014) - Incorporation   ANVC    2014 Incorporation
## 2176 PSLF with Myanmar (2005) - Incorporation   PSLF    2005 Incorporation
##      Country AG_cleavage religion_spec ID_ideology aggoals aggoals2 agselfID
## 141    India       Achik     Northeast      tribal       2        0        4
## 2176 Myanmar     Palaung          <NA>      tribal       2        4        3
##      agpolwing polpar pargov agillicit agtax peacedealonset peacedealongoing
## 141          0      0      0         0     0              0                0
## 2176         1      3      1      -999     1              0                0
##      ceasefireonset ceasefireongoing amnesty LCtenyr_filter
## 141               0                0       0             1
## 2176              0                0       0             1
##      agextsupport_general agextsupport_alleged
## 141                     0                    0
## 2176                    0                    0
```

```
# List of LLCs that ended in some form of termination

aosaLLC[aosaLLC$terminations == 1, ]
```

```
##                                      LLC        agname LLC_yrs LLC_start
## 3              ANVC and India (2005-2014)          ANVC      10      2005
## 4           APMSO and Pakistan (1978-1984)         APMSO       7      1978
## 9              DHD-N and India (2004-2012)         DHD-N       9      2004
## 11  HuM-Pakistan and Pakistan (2001-2012)  HuM-Pakistan      12      2001
## 24               MNF and India (1981-1986)           MNF       6      1981
## 40            PSLF and Myanmar (1992-2005)          PSLF      14      1992
## 46           SSNLO and Myanmar (1995-2007)         SSNLO      13      1995
## 50              UPDS and India (2003-2011)          UPDS       9      2003
## 51               UPF and India (2008-2014)           UPF       7      2008
## 451 Khun Sa Group and Myanmar (1962-1968) Khun Sa Group       7      1962
##     LLC_end  Country        AG_cleavage religion_spec        ID_ideology
## 3      2014    India              Achik     Northeast             tribal
## 4      1984 Pakistan            Karachi            NA          linguistic
## 9      2012    India             Dimasa     Northeast  linguistic-tribal
## 11     2012 Pakistan            Kashmir            NA           religious
## 24     1986    India               Mizo     Northeast  linguistic-tribal
## 40     2005  Myanmar            Palaung            NA             tribal
## 46     2007  Myanmar                Pao            NA leftist-linguistic
## 50     2011    India              Karbi     Northeast          linguistic
## 51     2014    India               Kuki     Northeast             tribal
## 451    1968  Myanmar Criminal (Myanmar)            NA               none
##     maximalGoals_yrs peripheryGoals_yrs notParty_yrs notRebel_yrs agpolwing_yrs
```

```
## 3                 0                10          10          10             0
## 4                 0                 0           7           7             7
## 9                 0                 9           9           9             0
## 11                0                 0          12          12             0
## 24                0                 6           6           0             0
## 40                0                14          14           0            14
## 46                0                13          13           0             0
## 50                0                 9           9           0             0
## 51                0                 7           7           7             0
## 451               0                 0           7           7             0
##     formalPolpar_yrs somePargov_yrs agillicit_yrs agtax_yrs peacedealonsets
## 3                 0              0             0         0               0
## 4                 7              0             0         0               0
## 9                 0              0             0         0               1
## 11                0              0             0         0               0
## 24                0              0             0         6               1
## 40               14              0             0        14               0
## 46                0              0             0         0               0
## 50                0              0             0         9               1
## 51                0              0             0         0               0
## 451               0              0             7         0               0
##     peacedeal_yrs ceasefireonsets ceasefire_yrs amnesty_yrs terminations
## 3               0               0             0           0            1
## 4               0               0             0           0            1
## 9               1               0             9           0            1
## 11              0               0             0           0            1
## 24              1               0             6           0            1
## 40              0               0             0           0            1
## 46              0               1            13           0            1
## 50              1               0             9           0            1
## 51              0               1             7           0            1
## 451             0               0             0           0            1
##     supportGen_yrs supportAlg_yrs
## 3                0              0
## 4                0              0
## 9                0              0
## 11               0              0
## 24               0              0
## 40               0              0
## 46               0             13
## 50               0              9
## 51               0              0
## 451              0              0
```