vsv_all_occurrence_mean_yearly_interval_by_state.R

melanie

2025-09-03

```
##
##
## SCRIPT NAME: vsv_all_occurrence_mean_yearly_interval_by_state
##
##
##
## Set working environment ----
# install (if necessary) and load packages

if ("pacman" %in% rownames(installed.packages()) == FALSE) {
   install.packages("pacman")
}
library("pacman")
library("devtools")
```

```
## Loading required package: usethis

## Warning: package 'usethis' was built under B vension 4.3.3
```

```
## Warning: package 'usethis' was built under R version 4.3.3
```

```
if (Sys.info()[["sysname"]] == "Windows") {
 options(devtools.path = "C:/Users/melanie/AppData/Local/R/R-dev")
  options(devtools.path = "/home/melanie.veron/R/R-dev")
}
p_load(tidyverse,
       raster,
       terra,
       sf,
       tmap.
       ragg,
       viridis,
       pryr)
# get citation and version information about Loaded packages
  "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/loaded_packages_info.txt"
)
print(
 loaded_packages_info <- list(</pre>
    citation = sapply(p_loaded(), p_cite, copy2clip = FALSE),
    version = sapply(p_loaded(), p_ver, simplify = FALSE)
 ) %>% list_transpose()
)
sink()
# define absolute working directory (that includes environmental data directory)
if (Sys.info()[["sysname"]] == "Windows") {
 main_path <- "D:/Documents/WORK/Maxent/"</pre>
} else {
 main_path <-</pre>
    "/project/disease_ecology/melanie.veron/vs_vectors_sdm/"
}
# create and assign temp directory for raster objects
if (dir.exists("outputs/vsv_all_occurrence_mean_yearly_interval_by_state/raster_tempdir") == FALSE) {
 dir.create("outputs/vsv_all_occurrence_mean_yearly_interval_by_state/raster_tempdir")
raster_tempdir <-
  "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/raster_tempdir/"
### Prepare presence Locations ----
# import and check case occurrence data
occurrence <-
  read.csv(
    "data/occurrence_data/VSV_Mexico_merged_012621_fixed.csv",
    fileEncoding = readr::guess_encoding("data/occurrence_data/VSV_Mexico_merged_012621_fixed.csv")[[1, 1]]
  ) %>%
 filter(!is.na(Year)) %>% # exclude records with no year
  filter(!is.na(Occurrence)) %>% # exclude records with no confirmed occurrence of VS
  rename(
   year = Year,
   infection_type = Inf_.type,
   latitude = Lat,
   longitude = Long
  ) %>%
 mutate(State = str_to_title(State))
head(occurrence)
```

```
DS year Month
                            CN
                                 Region State OLD
                                                     State Mun name Mun code
## 1 SEN 2009
                                Endemic TABASCO Tabasco TENOSIQUE
                                                                      TAB-17
                 1
## 2 SEN 2017
                 2
                               Outbreak
                                          MEXICO
                                                    México
                                                             MORELOS
                                                                       MEX-56
## 3 SEN 2009
                 1
                               Outbreak
                                         JALISCO
                                                   Jalisco MAZAMITLA
                                                                       JAL-59
## 4 SEN 2009
                 1
                               Outbreak
                                          COLIMA
                                                    Colima CUAUHTEMOC
                                                                        COL-5
## 5 SEN 2013
                               Outbreak CHIHUAHUA Chihuahua
                 1
                                                              MEOOUI
                                                                      CHI-45
                               Outbreak GUERRERO Guerrero ZIRANDARO GRO-73
## 6 SEN 2007
                 1
   infection_type S_inf N_animal N_S_animal N_D_animal Occurrence
            VSV-NJ Bovine
## 1
                             27
                                          4
                                                     0
## 2
            VSV-NJ Bovine
                                          7
                                                     0
                              50
                                                               1
            VSV-NJ Bovine
## 3
                                                     0
                              120
                                         36
                                                                1
## 4
            VSV-NJ Bovine
                              95
                                          1
                                                     0
                                                                1
## 5
            VSV-NJ Bovine
                              270
                                          a
                                                     a
                                                                1
                                          3
## 6
              VSV Bovine
                               80
                                                     a
##
              Sam_ty N_test n_pos Mun_correct latitude longitude
## 1
          Epithelial 1 1
                                   <NA>
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## 2
          Epithelial
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## 3
          Epithelial
                         2 1
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          Enithelial
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## 5 Vesicular liquid
                               1
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                         1
                                                            NΑ
          Epithelial
                         1
                               1
                                         Y 18.34373 -101.2202
##
   Valid_coordinates Notes
## 1
                   Ν
                           No coordinates available per original dataset
## 2
                   Ν
                           No coordinates available per original dataset
## 3
                   Ν
                           No coordinates available per original dataset
## 4
                    Ν
                           No coordinates available per original dataset
                           No coordinates available per original dataset
## 5
                    Ν
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## 6
```

str(occurrence)

```
## 'data.frame':
                  1860 obs. of 24 variables:
                   : chr "SEN" "SEN" "SEN" "SEN" ...
## $ DS
## $ year
                    : int 2009 2017 2009 2009 2013 2007 2015 2009 2000 2015 ...
## $ Month
                    : int 1211117119 ...
## $ CN
                    : chr
## $ Region
                    : chr "Endemic" "Outbreak" "Outbreak" ...
                    : chr "TABASCO" "MEXICO" "JALISCO" "COLIMA" ...
## $ State_OLD
                    : chr "Tabasco" "México" "Jalisco" "Colima" ...
## $ State
                    : chr "TENOSIQUE" "MORELOS" "MAZAMITLA" "CUAUHTEMOC" ...
## $ Mun_name
                     : chr
                           "TAB-17" "MEX-56" "JAL-59" "COL-5" ...
## $ Mun_code
##
  $ infection_type
                           "VSV-NJ" "VSV-NJ" "VSV-NJ" ...
                   : chr
                    : chr
## $ S_inf
                           "Bovine" "Bovine" "Bovine" ...
                           "27" "50" "120" "95" ...
## $ N_animal
                    : chr
                    : chr "4" "7" "36" "1" ...
## $ N_S_animal
                    : chr "0" "0" "0" "0" ...
## $ N_D_animal
## $ Occurrence
                    : int 111111111...
## $ Sam_ty
                           "Epithelial" "Epithelial" "Epithelial" ...
                    : chr
## $ N_test
                    : int 12211141NA2...
## $ n pos
                    : int 1 2 1 1 1 1 2 1 NA 2 ...
## $ Mun correct
                    : chr NA NA NA NA ...
                    : num NA NA NA NA NA ...
## $ latitude
                    : num NA NA NA NA NA ...
## $ longitude
                           "N" "N" "N" "N" ...
## $ Valid_coordinates: chr
                   : chr "" "" "" "" ...
## $ Notes
                    : chr "No coordinates available per original dataset" "No coordinates available per original datas
et" "No coordinates available per original dataset" "No coordinates available per original dataset" ...
```

dim(occurrence)

```
# save data frame as csv file
write.csv(
    occurrence,
    file = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/occurrence.csv",
    row.names = FALSE,
    fileEncoding = readr::guess_encoding("data/occurrence_data/VSV_Mexico_merged_012621_fixed.csv")[[1, 1]]
)
### Calculate state mean yearly case intervals ----
# for each state, calculate the yearly interval between records

occurrence_year_diff <-
    occurrence %>% dplyr::select(State, year) %>% dplyr::arrange(State, year)
occurrence_year_diff
```

```
##
                      State year
## 1
             Aguascalientes 1983
## 2
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             Aguascalientes 1983
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## 10
             Aguascalientes 1985
## 11
             Aguascalientes 1985
## 12
             Aguascalientes 1993
             Aguascalientes 2003
## 13
## 14
        Baja California Sur 1985
## 15
                   Campeche 1987
## 16
                   Campeche 1987
## 17
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## 18
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                   Veracruz 2017
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                   Veracruz 2017
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                   Veracruz 2020
## 1846
                   Veracruz 2020
## 1847
                   Veracruz 2020
## 1848
                   Veracruz 2020
## 1849
                  Zacatecas 1983
## 1850
                  Zacatecas 1983
## 1851
                  Zacatecas 1983
## 1852
                  Zacatecas 1985
## 1853
                  Zacatecas 1985
## 1854
                  Zacatecas 2012
## 1855
                  Zacatecas 2014
## 1856
                  Zacatecas 2015
## 1857
                  Zacatecas 2015
## 1858
                  Zacatecas 2015
## 1859
                  Zacatecas 2015
## 1860
                  Zacatecas 2015
occurrence_year_diff$year_diff <-
  with(occurrence_year_diff,
```

```
occurrence_year_diff$year_diff <-
with(occurrence_year_diff,
    ave(
    as.numeric(year),
    State,
    FUN = function(x)
        c(0, diff(x))
    ))
occurrence_year_diff</pre>
```

| ## | State | year | year_diff |
|----------------|---------------------|------|-----------|
| ## 1 | Aguascalientes | 1983 | 0 |
| ## 2 | Aguascalientes | 1983 | 0 |
| ## 3 | Aguascalientes | 1983 | 0 |
| ## 4 | Aguascalientes | 1983 | 0 |
| ## 5 | Aguascalientes | | 0 |
| ## 6 | Aguascalientes | | 0 |
| ## 7 | Aguascalientes | | 0 |
| ## 8 | Aguascalientes | | 0 |
| ## 9 | Aguascalientes | | 0 |
| ## 10 | · · | | 2 |
| | Aguascalientes | | = |
| | Aguascalientes | | 0 |
| ## 12 | Aguascalientes | | 8 |
| ## 13 | Aguascalientes | | 10 |
| ## 14 | Baja California Sur | | 0 |
| ## 15 | Campeche | | 0 |
| ## 16 | Campeche | | 0 |
| ## 17 | Campeche | | 0 |
| ## 18 | Campeche | 1988 | 1 |
| ## 19 | Campeche | 1988 | 0 |
| ## 20 | Campeche | 2005 | 17 |
| ## 21 | Campeche | 2006 | 1 |
| ## 22 | Campeche | 2011 | 5 |
| ## 23 | Campeche | 2011 | 0 |
| ## 24 | Campeche | 2011 | 0 |
| ## 25 | Campeche | 2011 | 0 |
| ## 26 | Campeche | 2011 | 0 |
| ## 27 | Campeche | 2011 | 0 |
| ## 28 | Campeche | 2011 | 0 |
| ## 29 | Campeche | 2011 | 0 |
| ## 30 | Campeche | | 0 |
| ## 31 | Campeche | 2011 | 0 |
| ## 32 | Campeche | 2011 | 0 |
| ## 33 | Campeche | | 0 |
| ## 34 | Campeche | 2011 | 0 |
| ## 35 | Campeche | 2011 | 0 |
| ## 36 | Campeche | 2011 | 0 |
| ## 37 | Campeche | 2012 | 1 |
| ## 38 | Campeche | 2017 | 5 |
| ## 39 | Chiapas | 1981 | 0 |
| ## 40 | Chiapas | 1981 | 0 |
| ## 41 | Chiapas | 1981 | 0 |
| ## 42 | Chiapas | 1981 | 0 |
| ## 43 | Chiapas | | 0 |
| ## 44 | Chiapas | | 0 |
| ## 45 | Chiapas | | 0 |
| ## 46 | Chiapas | | 1 |
| ## 47 | Chiapas | | 0 |
| ## 48 | Chiapas | | 0 |
| ## 49 | Chiapas | | 0 |
| ## 50 | Chiapas | | 0 |
| ## 51 | Chiapas | | 1 |
| ## 52 | Chiapas | | 0 |
| ## 52 | Chiapas | | 0 |
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| ## 54 ## 55 | Chiapas | | 0 |
| ## 55 ## 56 | Chiapas | | 0 |
| ## 56 | Chiapas | | 1 |
| ## 57 | Chiapas | | 0 |
| ## 58 | Chiapas | | 0 |
| ## 59 | Chiapas | | 0 |
| ## 60 | Chiapas | | 0 |
| ## 61 | Chiapas | | 0 |
| ## 62 | Chiapas | | 1 |
| ## 63 | Chiapas | 1985 | 0 |
| ## 64 | Chiapas | 1985 | 0 |

| ## 65 | Chiapas 1985 | 0 |
|------------------|------------------------------|--------|
| ## 66 | Chiapas 1985 | 0 |
| ## 67 | Chiapas 1985 | 0 |
| ## 68 | Chiapas 1985 | 0 |
| ## 69 | Chiapas 1986 | 1 |
| ## 70 | Chiapas 1986 | 0 |
| ## 71 | Chiapas 1987 | 1 |
| ## 72 | Chiapas 1987 | 0 |
| ## 73 | Chiapas 1987 | 0 |
| ## 74 | Chiapas 1987 | 0 |
| ## 75 ## 76 | Chiapas 1987 Chiapas 1987 | 0 0 |
| ## 76 | Chiapas 1987 Chiapas 1987 | 0 |
| ## 78 | Chiapas 1987 | 0 |
| ## 79 | Chiapas 1987 | 0 |
| ## 80 | Chiapas 1987 | 0 |
| ## 81 | Chiapas 1987 | 0 |
| ## 82 | Chiapas 1987 | 0 |
| ## 83 | Chiapas 1987 | 0 |
| ## 84 | Chiapas 1988 | 1 |
| ## 85 | Chiapas 1988 | 0 |
| ## 86 | Chiapas 1988 | 0 |
| ## 87 | Chiapas 1988 | 0 |
| ## 88 | Chiapas 1988 | 0 |
| ## 89 | Chiapas 1989 | 1 |
| ## 90 | Chiapas 1989 | 0 |
| ## 91 | Chiapas 1989 | 0 |
| ## 92 | Chiapas 1989 | 0 |
| ## 93 ## 94 | Chiapas 1989 Chiapas 1989 | 0 0 |
| ## 95 | Chiapas 1989 | 0 |
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| ## 97 | Chiapas 1989 | 0 |
| ## 98 | Chiapas 1989 | 0 |
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| ## 104 | Chiapas 1990 | 0 |
| ## 105 | Chiapas 1990 | 0 |
| ## 106 | Chiapas 1990 | 0 |
| ## 107 | Chiapas 1990 | 0 |
| ## 108 | Chiapas 1991 | 1 |
| ## 109 ## 110 | Chiapas 1991 Chiapas 1991 | 0 0 |
| ## 110 | Chiapas 1991 | 0 |
| ## 112 | Chiapas 1991 | 0 |
| ## 113 | Chiapas 1991 | 0 |
| ## 114 | Chiapas 1991 | 0 |
| ## 115 | Chiapas 1991 | 0 |
| ## 116 | Chiapas 1991 | 0 |
| ## 117 | Chiapas 1991 | 0 |
| ## 118 | Chiapas 1992 | 1 |
| ## 119 | Chiapas 1992 | 0 |
| ## 120 | Chiapas 1992 | 0 |
| ## 121 | Chiapas 1992 | 0 |
| ## 122 | Chiapas 1992 | 0 |
| ## 123 | Chiapas 1993 | 1 |
| ## 124 | Chiapas 1993 | 0 |
| ## 125 ## 126 | Chiapas 1993 | 0 |
| ## 126 ## 127 | Chiapas 1993 | 0 |
| ## 127 ## 128 | Chiapas 1993 Chiapas 1993 | 0 0 |
| ## 128 ## 129 | Chiapas 1993 Chiapas 1993 | 0 |
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| ## 130 | Chiapas 1993 | 0 |
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| ## 131 | Chiapas 1993 | 0 |
| ## 132 | Chiapas 1993 | 0 |
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| ## 137 | Chiapas 1993 | 0 |
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| ## 142 | Chiapas 1994 | 0 |
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| ## 170 | Chiapas 1995 | 0 |
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| ## 195 | Chiapas 1997 | 0 |
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| ## 260 | Chiapas 2002 | 0 |
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| ## | 325 | Chiapas | 2003 | 0 |
|----|------------|--------------------|--------------|--------|
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| ## | 327 | Chiapas | 2004 | 0 |
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| ## | 329 | Chiapas | | 0 |
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| ## | 332 | Chiapas | 2004 | 0 |
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| ## | 345 346 | Chiapas Chiapas | 2004 2005 | 0 1 |
| ## | 347 | Chiapas | 2005 | 0 |
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| ## | 352 | Chiapas | 2005 | 0 |
| ## | 353 | Chiapas | 2006 | 1 |
| ## | 354 | Chiapas | 2006 | 0 |
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| ## | 357 | Chiapas | | 0 |
| ## | 358 359 | Chiapas Chiapas | 2007 2007 | 0 0 |
| ## | 360 | Chiapas | 2007 | 0 |
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| ## | 378 | Chiapas | 2008 | 1 |
| ## | 379 | Chiapas | | 0 |
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| ## | 381 382 | Chiapas Chiapas | 2008 2008 | 0 0 |
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| ## 455 | Chiapas | 2017 | 0 |
|------------------|------------------------|------|--------|
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| ## 459 ## 460 | Chiapas Chiapas | | 0 1 |
| ## 461 | Chiapas | | 0 |
| ## 462 | Chiapas | | 0 |
| ## 463 | Chiapas | 2018 | 0 |
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| ## 465 | Chiapas | | 0 |
| ## 466 | Chiapas | | 0 |
| ## 467 ## 468 | Chiapas Chiapas | | 0 0 |
| ## 469 | Chiapas | | 0 |
| ## 470 | Chiapas | | 1 |
| ## 471 | Chiapas | 2020 | 0 |
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| ## 474 | Chiapas | | 0 |
| ## 475 ## 476 | Chiapas | | 0 0 |
| ## 476 | Chiapas Chiapas | | 0 |
| ## 478 | Chiapas | | 0 |
| ## 479 | Chihuahua | | 0 |
| ## 480 | Chihuahua | 1981 | 0 |
| ## 481 | Chihuahua | 1981 | 0 |
| ## 482 | Chihuahua | | 0 |
| ## 483 | Chihuahua | | 1 |
| ## 484 ## 485 | Chihuahua Chihuahua | | 0 2 |
| ## 486 | Chihuahua | | 0 |
| ## 487 | Chihuahua | | 0 |
| ## 488 | Chihuahua | 1984 | 0 |
| ## 489 | Chihuahua | 1984 | 0 |
| ## 490 | Chihuahua | | 1 |
| ## 491 | Chihuahua | | 9 |
| ## 492 ## 493 | Chihuahua Chihuahua | | 0 8 |
| ## 494 | Chihuahua | | 2 |
| ## 495 | Chihuahua | | 3 |
| ## 496 | Chihuahua | | 2 |
| ## 497 | Chihuahua | 2013 | 4 |
| ## 498 | Chihuahua | 2015 | 2 |
| ## 499 | Chihuahua | | 0 |
| ## 500 ## 501 | Coahuila | | 0 |
| ## 501 | Colima Colima | | 0 0 |
| ## 503 | Colima | | 0 |
| ## 504 | Colima | | 0 |
| ## 505 | Colima | 1981 | 0 |
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| ## 507 | Colima | | 0 |
| ## 508 | Colima | | 0 |
| ## 509 ## 510 | Colima Colima | | 0 0 |
| ## 510 | Colima | | 0 |
| ## 512 | Colima | | 0 |
| ## 513 | Colima | 1981 | 0 |
| ## 514 | Colima | 1982 | 1 |
| ## 515 | Colima | | 0 |
| ## 516 | Colima | | 2 |
| ## 517 ## 518 | Colima Colima | | 1 0 |
| ## 518 | Colima | | 1 |
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| ## 520 | Colima | 1986 | 0 |
|------------------|-----------------------|------|--------|
| ## 521 | Colima | 1988 | 2 |
| ## 522 | Colima | 1988 | 0 |
| ## 523 | Colima | | 6 |
| ## 524 | Colima | 1994 | 0 |
| ## 525 | Colima | | 3 |
| ## 526 | Colima | | 0 |
| ## 527 | Colima | | 0 |
| ## 528 | Colima | | 6 |
| ## 529 | Colima | | 0 |
| ## 530 | Colima | | 0 |
| ## 531 ## 532 | Colima Colima | | 1 5 |
| ## 532 ## 533 | Colima | | 0 |
| ## 534 | Distrito Federal | | 0 |
| ## 535 | Distrito Federal | | 5 |
| ## 536 | Distrito Federal | | 15 |
| ## 537 | Durango | | 0 |
| ## 538 | Durango | | 0 |
| ## 539 | Durango | | 0 |
| ## 540 | Durango | | 0 |
| ## 541 | Durango | | 0 |
| ## 542 | Durango | | 0 |
| ## 543 | Durango | | 0 |
| ## 544 | Durango | | 0 |
| ## 545 | Durango | | 0 |
| ## 546 | Durango | 1981 | 0 |
| ## 547 | Durango | 1981 | 0 |
| ## 548 | Durango | 1981 | 0 |
| ## 549 | Durango | 1981 | 0 |
| ## 550 | Durango | 1981 | 0 |
| ## 551 | Durango | 1983 | 2 |
| ## 552 | Durango | 1983 | 0 |
| ## 553 | Durango | 1983 | 0 |
| ## 554 | Durango | 1983 | 0 |
| ## 555 | Durango | 1983 | 0 |
| ## 556 | Durango | 1984 | 1 |
| ## 557 | Durango | | 0 |
| ## 558 | Durango | | 0 |
| ## 559 | Durango | | 0 |
| ## 560 | Durango | | 0 |
| ## 561 | Durango | | 0 |
| ## 562 | Durango | | 0 |
| ## 563 | Durango | | 0 |
| ## 564 | Durango | | 3 |
| ## 565 | Durango | | 5 |
| ## 566 | Durango | | 5 |
| ## 567 | Durango | | 0 7 |
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| ## 1149 | Puebla 2008 | 6 |
| ## 1150 | Puebla 2010 | 2 |
| ## 1151 | Puebla 2010 | 0 |
| ## 1152 | Puebla 2010 | 0 |
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| ## 1156 | Puebla 2014 | 0 |
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| ## 1165 | Querétaro 2010 | 0 |
| ## 1166 | Querétaro 2010 | 0 |
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| ## 1169 | Querétaro 2015 | 0 |
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| ## 1170 | Querétaro | 2015 0 | |
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| ## 1172 | Querétaro | 2015 0 | |
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| ## 1174 | San Luis Potosí | | |
| ## 1175 | San Luis Potosí | | |
| ## 1176 | San Luis Potosí | | |
| ## 1177 | San Luis Potosí | 2014 0 | |
| ## 1178 ## 1179 | San Luis Potosí San Luis Potosí | | |
| ## 1180 | San Luis Potosí | | |
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| ## 1183 | San Luis Potosí | 2015 0 | |
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| ## 1185 | Sinaloa | 1984 0 | |
| ## 1186 | Sinaloa | 1984 0 | |
| ## 1187 | Sinaloa | 1984 0 | |
| ## 1188 | Sinaloa | | |
| ## 1189 | Sinaloa | | |
| ## 1190 | Sinaloa | | |
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| ## 1192 ## 1193 | Sinaloa | 1994 0 1994 0 | |
| ## 1193 ## 1194 | Sinaloa Sinaloa | | |
| ## 1194 | Sinaloa | | |
| ## 1196 | Sinaloa | 1994 0 | |
| ## 1197 | Sinaloa | 2004 10 | |
| ## 1198 | Sinaloa | 2009 5 | |
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| ## 1202 | Sinaloa | 2009 0 | |
| ## 1203 | Sinaloa | 2009 0 | |
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| ## 1205 | Sinaloa | 2009 0 | |
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| ## 1207 ## 1208 | Sinaloa Sinaloa | 2009 0 2009 0 | |
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| | | 1344 | Tabasco | | 0 0 |
| | | 1345 | Tabasco | | 0 |
| | | 1346 | Tabasco | | 0 |
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| | | 1349 | Tabasco | | 0 |
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| | | 1352 | Tabasco | | 1 |
| | | 1353 | Tabasco | | 0 |
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| | | 1357 | Tabasco | | 0 |
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| | | 1360 | Tabasco | | 1 |
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| | | 1362 | Tabasco | | 0 |
| | ## | 1363 | Tabasco | 2007 | 0 |
| | ## | 1364 | Tabasco | 2007 | 0 |
| J | | | | | |
| 1 | | | | | |

| ## 1365 | Tabasco | 2007 | 0 |
|--------------------|----------------------|------|--------|
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| ## 1407 | Veracruz | | 0 |
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| ## 1414 ## 1415 | Veracruz | | 0 |
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| ## 1418 | Veracruz | | 0 |
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| ## 1577 ## 1578 | Veracruz 1992 Veracruz 1992 | 0 0 |
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| ## 1605 ## 1606 | Veracruz 1998 | 0 |
| ## 1606 ## 1607 | Veracruz 1998 Veracruz 1998 | 0 0 |
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| ## 1702 | Veracruz | 2006 | 0 |
| ## 1703 | Veracruz | 2006 | 0 |
| ## 1704 | Veracruz | 2006 | 0 |
| ## 1705 | Veracruz | 2006 | 0 |
| ## 1706 | Veracruz | 2006 | 0 |
| ## 1707 | Veracruz | 2006 | 0 |
| ## 1708 | Veracruz | 2006 | 0 |
| ## 1709 | Veracruz | 2006 | 0 |
| ## 1710 | Veracruz | 2006 | 0 |
| ## 1711 | Veracruz | 2006 | 0 |
| ## 1712 | Veracruz | 2006 | 0 |
| ## 1713 | Veracruz | 2006 | 0 |
| ## 1714 | Veracruz | 2006 | 0 |
| ## 1715 | Veracruz | 2006 | 0 |
| ## 1716 | Veracruz | 2006 | 0 |
| ## 1717 | Veracruz | 2007 | 1 |
| ## 1718 | Veracruz | 2007 | 0 |
| ## 1719 | Veracruz | 2007 | 0 |
| ## 1720 | Veracruz | 2007 | 0 |
| ## 1721 | Veracruz | 2007 | 0 |
| ## 1722 | Veracruz | 2007 | 0 |
| ## 1723 | Veracruz | 2007 | 0 |
| ## 1724 | Veracruz | 2007 | 0 |
| ## 1725 | Veracruz | 2007 | 0 |
| ## 1726 | Veracruz | 2007 | 0 |
| ## 1727 | Veracruz | 2007 | 0 |
| ## 1728 | Veracruz | 2008 | 1 |
| ## 1729 | Veracruz | 2008 | 0 |
| ## 1730 | Veracruz | 2008 | 0 |
| ## 1731 | Veracruz | 2008 | 0 |
| ## 1732 | Veracruz | 2009 | 1 |
| ## 1733 | Veracruz | 2009 | 0 |
| ## 1734 | Veracruz | 2009 | 0 |
| ## 1735 | Veracruz | 2009 | 0 |
| ## 1736 | Veracruz | 2009 | 0 |
| ## 1737 | Veracruz | 2009 | 0 |
| ## 1738 | Veracruz | 2009 | 0 |
| ## 1739 | Veracruz | 2009 | 0 |
| ## 1740 | Veracruz | 2009 | 0 |
| ## 1741 | Veracruz | | 0 |
| ## 1742 | Veracruz | 2009 | 0 |
| ## 1743 | Veracruz | 2009 | 0 |
| ## 1744 | Veracruz | | 0 |
| ## 1745 | Veracruz | | 0 |
| ## 1746 | Veracruz | | 0 |
| ## 1747 | Veracruz | | 1 |
| ## 1748 | Veracruz | | 0 |
| ## 1749 | Veracruz | | 0 |
| ## 1750 | Veracruz | | 0 |
| ## 1751 | Veracruz | | 0 |
| ## 1752 | Veracruz | | 0 |
| ## 1753 | Veracruz | | 0 |
| ## 1754 | Veracruz | 2010 | 0 |
| | | | |

| ## 1755 | Veracruz 2010 | 0 |
|--------------------|--------------------------------|--------|
| ## 1756 | Veracruz 2010 | 0 |
| ## 1757 | Veracruz 2010 | 0 |
| ## 1758 | Veracruz 2010 | 0 |
| ## 1759 | Veracruz 2010 | 0 |
| ## 1760 | Veracruz 2010 | 0 |
| ## 1761 | Veracruz 2010 | 0 |
| ## 1762 ## 1763 | Veracruz 2010 Veracruz 2010 | 0 |
| ## 1764 | Veracruz 2010 Veracruz 2010 | 0 |
| ## 1765 | Veracruz 2010 | 0 |
| ## 1766 | Veracruz 2010 | 0 |
| ## 1767 | Veracruz 2011 | 1 |
| ## 1768 | Veracruz 2011 | 0 |
| ## 1769 | Veracruz 2011 | 0 |
| ## 1770 | Veracruz 2011 | 0 |
| ## 1771 | Veracruz 2011 | 0 |
| ## 1772 | Veracruz 2011 | 0 |
| ## 1773 ## 1774 | Veracruz 2011 | 0 |
| ## 1774 ## 1775 | Veracruz 2011 Veracruz 2011 | 0 0 |
| ## 1776 | Veracruz 2011 Veracruz 2011 | 0 |
| ## 1777 | Veracruz 2011 | 0 |
| ## 1778 | Veracruz 2011 | 0 |
| ## 1779 | Veracruz 2011 | 0 |
| ## 1780 | Veracruz 2011 | 0 |
| ## 1781 | Veracruz 2012 | 1 |
| ## 1782 | Veracruz 2012 | 0 |
| ## 1783 | Veracruz 2012 | 0 |
| ## 1784 | Veracruz 2012 | 0 |
| ## 1785 | Veracruz 2012 | 0 |
| ## 1786 | Veracruz 2013 | 1 |
| ## 1787 ## 1788 | Veracruz 2013 Veracruz 2013 | 0 |
| ## 1789 | Veracruz 2013 | 0 |
| ## 1790 | Veracruz 2013 | 0 |
| ## 1791 | Veracruz 2014 | 1 |
| ## 1792 | Veracruz 2014 | 0 |
| ## 1793 | Veracruz 2014 | 0 |
| ## 1794 | Veracruz 2014 | 0 |
| ## 1795 | Veracruz 2014 | 0 |
| ## 1796 | Veracruz 2014 | 0 |
| ## 1797 | Veracruz 2014 | 0 |
| ## 1798 ## 1799 | Veracruz 2014 Veracruz 2014 | 0 0 |
| ## 1800 | Veracruz 2014 Veracruz 2015 | 1 |
| ## 1801 | Veracruz 2015 | 0 |
| ## 1802 | Veracruz 2015 | 0 |
| ## 1803 | Veracruz 2015 | 0 |
| ## 1804 | Veracruz 2015 | 0 |
| ## 1805 | Veracruz 2015 | 0 |
| ## 1806 | Veracruz 2015 | 0 |
| ## 1807 | Veracruz 2015 | 0 |
| ## 1808 | Veracruz 2016 | 1 |
| ## 1809 | Veracruz 2016 | 0 |
| ## 1810 ## 1811 | Veracruz 2016 Veracruz 2016 | 0 0 |
| ## 1811 | Veracruz 2016 | 0 |
| ## 1813 | Veracruz 2016 | 0 |
| ## 1814 | Veracruz 2016 | 0 |
| ## 1815 | Veracruz 2017 | 1 |
| ## 1816 | Veracruz 2017 | 0 |
| ## 1817 | Veracruz 2017 | 0 |
| ## 1818 | Veracruz 2017 | 0 |
| ## 1819 | Veracruz 2017 | 0 |
| | | |

| ## 1820 | Veracruz 2017 | 0 |
|---------|----------------------------------|----|
| ## 1821 | Veracruz 2017 | 0 |
| ## 1822 | Veracruz 2017 | 0 |
| ## 1823 | Veracruz 2017 | 0 |
| ## 1824 | Veracruz 2017 | 0 |
| ## 1825 | Veracruz 2017 | 0 |
| ## 1826 | Veracruz 2017 | 0 |
| ## 1827 | Veracruz 2017 | 0 |
| ## 1828 | Veracruz 2017 | 0 |
| ## 1829 | Veracruz 2017 | 0 |
| ## 1830 | Veracruz 2017 | 0 |
| ## 1831 | Veracruz 2018 | 1 |
| ## 1832 | Veracruz 2018 | 0 |
| ## 1833 | Veracruz 2018 | 0 |
| ## 1834 | Veracruz 2018 | 0 |
| ## 1835 | Veracruz 2018 | 0 |
| ## 1836 | Veracruz 2019 | 1 |
| ## 1837 | Veracruz 2019 | 0 |
| ## 1838 | Veracruz 2019 | 0 |
| ## 1839 | Veracruz 2019 | 0 |
| ## 1840 | Veracruz 2020 | 1 |
| ## 1841 | Veracruz 2020 | 0 |
| ## 1842 | Veracruz 2020 | 0 |
| ## 1843 | Veracruz 2020 | 0 |
| ## 1844 | Veracruz 2020 | 0 |
| ## 1845 | Veracruz 2020 | 0 |
| ## 1846 | Veracruz 2020 | 0 |
| ## 1847 | Veracruz 2020 | 0 |
| ## 1848 | Veracruz 2020 | 0 |
| ## 1849 | Zacatecas 1983 | 0 |
| ## 1850 | Zacatecas 1983 | 0 |
| ## 1851 | Zacatecas 1983 | 0 |
| ## 1852 | Zacatecas 1985 | 2 |
| ## 1853 | Zacatecas 1985 | 0 |
| ## 1853 | Zacatecas 1983 Zacatecas 2012 | 27 |
| ## 1855 | Zacatecas 2014 | 2 |
| ## 1856 | Zacatecas 2014 Zacatecas 2015 | 1 |
| ## 1857 | Zacatecas 2015 | 0 |
| ## 1858 | Zacatecas 2015 Zacatecas 2015 | 0 |
| ## 1859 | Zacatecas 2015 | 0 |
| | Zacatecas 2015 | 0 |
| ## 1860 | | |

summary(occurrence_year_diff)

```
# exclude first-year records for each state (since there are no earlier records for comparison to calculate their corresponding yearly interval)
occurrence_year_diff_first_year_removed <-
occurrence_year_diff %>%
group_by(State) %>%
dplyr::filter(year != min(year))
occurrence_year_diff_first_year_removed
```

```
## # A tibble: 1,732 × 3
## # Groups: State [25]
##
     State
                   year year_diff
                          <dbl>
##
     <chr>>
                   <int>
## 1 Aguascalientes 1985
                                2
## 2 Aguascalientes 1985
                                0
                                8
## 3 Aguascalientes 1993
## 4 Aguascalientes 2003
                               10
## 5 Campeche
               1988
                               1
                               0
## 6 Campeche
                  1988
                  2005
## 7 Campeche
                               17
## 8 Campeche
                    2006
                               1
## 9 Campeche
                    2011
                                5
## 10 Campeche
                                0
                    2011
## # i 1,722 more rows
```

```
# for each state, change all values of zero to match the non-zero value per year (to correct the stepwise interval calcula
tions)
occurrence_year_diff_first_year_removed_with_fixed_values <-
    occurrence_year_diff_first_year_removed %>%
    group_by(State, year) %>%
    dplyr::mutate(year_diff = max(year_diff))
occurrence_year_diff_first_year_removed_with_fixed_values
```

```
## # A tibble: 1,732 × 3
## # Groups: State, year [315]
##
               year year_diff
     State
     <chr>>
                   <int>
## 1 Aguascalientes 1985
## 2 Aguascalientes 1985
                                2
## 3 Aguascalientes 1993
                                8
## 4 Aguascalientes 2003
                               10
## 5 Campeche
                    1988
                                1
                    1988
## 6 Campeche
                                1
## 7 Campeche
                    2005
                               17
## 8 Campeche
                    2006
                                1
## 9 Campeche
                    2011
                                5
## 10 Campeche
                    2011
                                 5
## # i 1,722 more rows
```

```
occurrence_year_diff_old <- occurrence_year_diff

occurrence_year_difff_first_year_removed_with_fixed_values

# save data frame as csv file
write.csv(
    occurrence_year_diff,
    file = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/occurrence_year_diff.csv",
    row.names = FALSE,
    fileEncoding = readr::guess_encoding("data/occurrence_data/VSV_Mexico_merged_012621_fixed.csv")[[1, 1]]
)

# calculate mean yearly intervals for all multi-year states
occurrence_state_mean_yearly_intervals <- occurrence_year_diff %>%
    group_by(State) %>%
    summarize(mean_year_diff = mean(year_diff))
occurrence_state_mean_yearly_intervals
```

```
## # A tibble: 25 × 2
     State
##
                    mean_year_diff
##
     <chr>>
                              <dbl>
## 1 Aguascalientes
                              5.5
## 2 Campeche
                              4.81
## 3 Chiapas
                              1.00
## 4 Chihuahua
                              3.18
## 5 Colima
                              3.1
## 6 Distrito Federal
## 7 Durango
                              2.58
## 8 Guanajuato
                              6.32
## 9 Guerrero
                              1.30
## 10 Hidalgo
                              1.65
## # i 15 more rows
```

```
summary(occurrence_state_mean_yearly_intervals)
```

```
## State mean_year_diff

## Length:25 Min. : 1.002

## Class :character 1st Qu.: 1.690

## Mode :character Median : 3.100

## Mean : 4.092

## 3rd Qu.: 5.500

## Max. :11.000
```

```
# isolate and summarize records from single-year states
occurrence_single_year_states <-
 occurrence_year_diff_old %>%
  group_by(State) %>%
 distinct(year, .keep_all = TRUE) %>%
 add_tally(name = "num_years") %>%
 dplyr::filter(num_years == 1) %>%
  summarize(mean_year_diff = mean(year_diff)) %>%
  dplyr::mutate(mean_year_diff = NA)
# insert single-year state rows into mean yearly intervals data frame
occurrence_state_mean_yearly_intervals_with_single_year_states <-
 occurrence_state_mean_yearly_intervals %>%
 dplyr::union(occurrence_single_year_states) %>%
  dplyr::arrange(State) #%>%
# dplyr::mutate(mean_year_diff = ifelse(mean_year_diff == 1000, "NA (only one year available)", mean_year_diff))
occurrence_state_mean_yearly_intervals_with_single_year_states
```

```
## # A tibble: 28 × 2
##
     State
                         mean_year_diff
##
      <chr>>
                                  <dbl>
## 1 Aguascalientes
                                   5.5
## 2 Baja California Sur
## 3 Campeche
                                  4.81
                                  1.00
## 4 Chiapas
## 5 Chihuahua
                                  3.18
## 6 Coahuila
                                  NA
## 7 Colima
                                  3.1
## 8 Distrito Federal
                                  10
                                  2.58
## 9 Durango
## 10 Guanajuato
                                   6.32
## # i 18 more rows
```

```
occurrence_state_mean_yearly_intervals_old <-
occurrence_state_mean_yearly_intervals

occurrence_state_mean_yearly_intervals <-
occurrence_state_mean_yearly_intervals_with_single_year_states
occurrence_state_mean_yearly_intervals
```

```
## # A tibble: 28 × 2
##
    State
                       mean_year_diff
##
     <chr>>
                                <dbl>
## 1 Aguascalientes
                                 5.5
## 2 Baja California Sur
                                NA
## 3 Campeche
                                4.81
## 4 Chiapas
                                1.00
## 5 Chihuahua
                                3.18
## 6 Coahuila
                                NA
## 7 Colima
                                3.1
## 8 Distrito Federal
                                10
## 9 Durango
                                2.58
## 10 Guanajuato
                                 6.32
## # i 18 more rows
```

```
# save data frame as csv file
write.csv(
 occurrence_state_mean_yearly_intervals,
 file = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/occurrence_state_mean_yearly_intervals.csv",
 row.names = FALSE,
 fileEncoding = readr::guess_encoding("data/occurrence_data/VSV_Mexico_merged_012621_fixed.csv")[[1, 1]]
)
### Define study area ----
# load elevation raster
elevation <-
 raster::raster(
   str_c(
     main_path,
      "environmental_data/NEW_environmental_data/EarthEnv_Topography/final/elevation_4KMmd_GMTEDmd.tif"
   )
elevation
```

```
## class : RasterLayer

## dimensions : 886, 1542, 1366212 (nrow, ncol, ncell)

## resolution : 0.050908, 0.050908 (x, y)

## extent : -138.1643, -59.66418, 14.55969, 59.66418 (xmin, xmax, ymin, ymax)

## crs : +proj=longlat +datum=WGS84 +no_defs

## source : elevation_4KMmd_GMTEDmd.tif

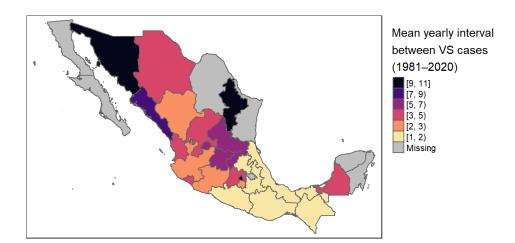
## names : elevation_4KMmd_GMTEDmd

## values : -81.04566, 4402.234 (min, max)
```

```
# prepare reference vector layers
boundaries_countries <- read_sf(</pre>
 str_c(
    main_path,
    "environmental_data/study_areas/reference_boundaries/Global_Countries.gpkg"
  )
) %>%
  st_transform(st_crs(elevation)) %>%
  st_make_valid() %>%
  dplyr::select(GEOUNIT)
boundaries_states_provinces <- read_sf(</pre>
  str_c(
   main_path,
    "environmental_data/study_areas/reference_boundaries/Global_States_Provinces.gpkg"
  )
) %>%
  st_transform(st_crs(elevation)) %>%
  st_make_valid() %>%
 filter(geonunit == "Canada" |
           geonunit == "Mexico" |
           geonunit == "United States of America") %>%
 dplyr::select(name)
# import vector mask layer representing the study area (derived from ecoregions intersecting and surrounding presence loca
tions)
study_area_mask <-
 read_sf(
    "data/study_areas/Ecoregions_Study_Area_VSV_Mexico_Endemic_All_Extended_Convex_Hull_Mask.gpkg"
  st_transform(st_crs(elevation)) %>%
  st_make_valid()
### Mapping endemicity ----
# import SWD object (which includes filtered presence data) from main script as data frame
  read.csv("outputs/vsv_all_dynamic_nestedcv_final_reduced_vars/data.csv")
# define presence localities that were included in the SWD object (i.e., excluding points dropped due to missing environme
ntal data)
presence_final <-</pre>
 data %>% dplyr::filter(pa == 1) %>%
 dplyr::select(X, Y) %>%
  rename(longitude = X,
         latitude = Y)
# make sf object versions for final presence coords
presence_final_sf <- st_as_sf(</pre>
 x = presence_final,
 coords = c("longitude", "latitude"),
  crs = st_crs(elevation)
boundaries_mexico_states <- read_sf(</pre>
  str_c(
   main_path,
    "environmental_data/study_areas/reference_boundaries/Global_States_Provinces.gpkg"
  )
) %>%
  st_transform(st_crs(elevation)) %>%
  st_make_valid() %>%
  filter(geonunit == "Mexico") %>%
  dplyr::select(name)
```

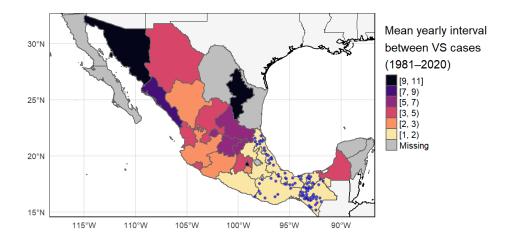
```
# add mean yearly interval data to mexico state boundaries object
boundaries_mexico_states_occ_mean_yearly_intervals <-</pre>
 boundaries_mexico_states %>%
  full_join(occurrence_state_mean_yearly_intervals, by = c("name" = "State"))
# create plot layer from country and state/province boundaries
boundaries_alt_plot_layer <- {</pre>
 tm_shape(
   boundaries_countries,
    projection = st_crs(boundaries_mexico_states_occ_mean_yearly_intervals),
   bbox = st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
 ) +
   tm_polygons(alpha = 0, border.alpha = 0) + # transparent copy of polygon (baseline)
   tm_graticules(alpha = 0.2,
                  ticks = FALSE) +
   tm layout(inner.margins = 0,
              bg.color = "white") + # add graticules (long-lat lines) first
   tm_shape(
     boundaries_countries,
      projection = st crs(boundaries mexico states occ mean yearly intervals),
      bbox = st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
   tm_polygons(col = "white", border.alpha = 0) + # opaque grey copy of polygon (to hide graticules under polygon)
   tm_shape(
      boundaries_countries,
      projection = st_crs(boundaries_mexico_states_occ_mean_yearly_intervals),
      bbox = st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
   tm_polygons(
      alpha = 0.15,
      border.alpha = 1,
      border.col = "black",
      lwd = 1
    ) + # visible copy of country boundaries
   tm_shape(
     boundaries_states_provinces,
      projection = st_crs(boundaries_mexico_states_occ_mean_yearly_intervals),
      bbox = st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
   ) +
   tm_polygons(
      alpha = 0,
      border.alpha = 1,
      border.col = "black",
     lwd = 0.8
    ) # visible copy of state/province boundaries
}
# create mean yearly interval maps
mexico_states_occ_mean_yearly_intervals_map_no_points_layer <-</pre>
 {
   tm_shape(
      boundaries_mexico_states_occ_mean_yearly_intervals,
      projection = st_crs(boundaries_mexico_states_occ_mean_yearly_intervals),
      bbox = st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
    ) + tm polygons(
      col = "mean_year_diff",
      palette = viridis(
        256,
        option = "magma",
        begin = 0.05,
        end = 0.95,
        direction = -1
      ),
      alpha = 1,
```

```
title = "Mean yearly interval\nbetween VS cases\n(1981-2020)",
      legend.reverse = TRUE,
      interval.closure = "left",
      legend.format = list(scientific = TRUE, format = "f"),
      # # VARIANT 1
      # style = "fixed",
      # breaks = seq(1, max(
      # summary(
           boundaries_mexico_states_occ_mean_yearly_intervals$mean_year_diff
      # ), 1)
      # # VARIANT 2
      # style = "fixed",
      # breaks = seq(1, max(
      # summary(
           boundaries_mexico_states_occ_mean_yearly_intervals$mean_year_diff
      # ), 2)
      # VARIANT 3
      style = "fixed",
      breaks = c(seq(1, 2, 1),
                 seq(3, max(
                   summary(
                     boundaries_mexico_states_occ_mean_yearly_intervals$mean_year_diff
                  )
                 ), 2))
      # # VARIANT 4
      # style = "cont"
     # # VARIANT 5
      # style = "cont",
      \# breaks = seq(1, max(
      # summary(
           boundaries_mexico_states_occ_mean_yearly_intervals$mean_year_diff
      # ), 2)
    ) + tm_legend(legend.outside = TRUE)
mexico_states_occ_mean_yearly_intervals_map_no_points_layer
```

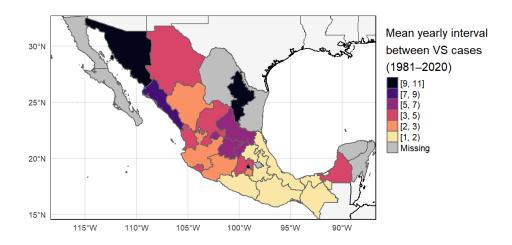


```
mexico_states_occ_mean_yearly_intervals_map_layer <- {
    mexico_states_occ_mean_yearly_intervals_map_no_points_layer + tm_shape(presence_final_sf) + tm_dots(
        size = 0.08,
        shape = 21,
        col = "blue",
        alpha = 0.7,
        border.lwd = 0.55,
        border.alpha = 0.9
    )
}

(
    mexico_states_occ_mean_yearly_intervals_map <-
        boundaries_alt_plot_layer + mexico_states_occ_mean_yearly_intervals_map_layer
)</pre>
```



```
(
  mexico_states_occ_mean_yearly_intervals_map_no_points <-
   boundaries_alt_plot_layer + mexico_states_occ_mean_yearly_intervals_map_no_points_layer
)</pre>
```



```
# save the image output
tmap_save(
   mexico_states_occ_mean_yearly_intervals_map,
   filename = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/mexico_states_occ_mean_yearly_intervals_map_v3.pn
g",
   scale = 1.7
)
```

Map saved to D:\Documents\WORK\Maxent\projects\mexico_vsv\outputs\vsv_all_occurrence_mean_yearly_interval_by_state\mexi
co_states_occ_mean_yearly_intervals_map_v3.png

Resolution: 2653.869 by 1661.725 pixels

Size: 8.84623 by 5.539083 inches (300 dpi)

```
# save the image output
tmap_save(
    mexico_states_occ_mean_yearly_intervals_map_no_points,
    filename = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/mexico_states_occ_mean_yearly_intervals_map_no_poin
ts_v3.png",
    scale = 1.7
)
```

Map saved to D:\Documents\WORK\Maxent\projects\mexico_vsv\outputs\vsv_all_occurrence_mean_yearly_interval_by_state\mexi
co_states_occ_mean_yearly_intervals_map_no_points_v3.png

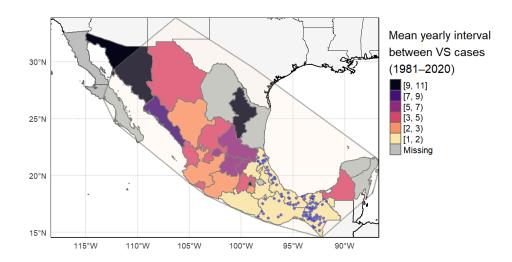
Resolution: 2653.869 by 1661.725 pixels

Size: 8.84623 by 5.539083 inches (300 dpi)

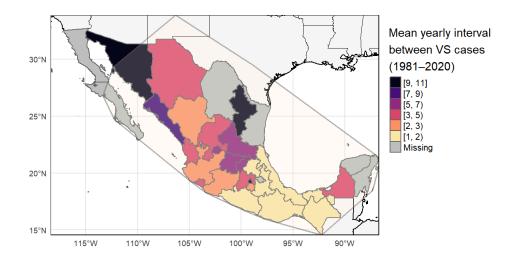
```
#### With study area overlay ----
# build an larger extent for next set of maps
bbox_extended <-
  st_bbox(boundaries_mexico_states_occ_mean_yearly_intervals)
bbox_extended[4] <- st_bbox(study_area_mask)[4]</pre>
# create plot layer from country and state/province boundaries
boundaries_alt_with_study_area_plot_layer <- {</pre>
  tm_shape(
    boundaries_countries,
    projection = st_crs(bbox_extended),
    bbox = st_bbox(bbox_extended)
  ) +
    tm_polygons(alpha = 0, border.alpha = 0) + # transparent copy of polygon (baseline)
    tm_graticules(alpha = 0.2,
                  ticks = FALSE) +
    tm_layout(inner.margins = 0,
              bg.color = "white") + # add graticules (long-lat lines) first
    tm_shape(
      boundaries_countries,
      projection = st_crs(bbox_extended),
      bbox = st_bbox(bbox_extended)
    ) +
    tm_polygons(col = "white", border.alpha = 0) + # opaque grey copy of polygon (to hide graticules under polygon)
    tm_shape(
      boundaries_countries,
      projection = st_crs(bbox_extended),
      bbox = st_bbox(bbox_extended)
    tm_polygons(
      alpha = 0.15,
      border.alpha = 1,
      border.col = "black",
      lwd = 1
    ) + # visible copy of country boundaries
    tm_shape(
      boundaries_states_provinces,
      projection = st_crs(bbox_extended),
      bbox = st_bbox(bbox_extended)
    ) +
    tm_polygons(
      alpha = 0,
      border.alpha = 1,
      border.col = "black",
      1wd = 0.8
    ) # visible copy of state/province boundaries
}
# create plot layer from study area mask
study_area_mask_alt_plot_layer <- {</pre>
  tm_shape(
    study_area_mask,
    projection = st_crs(bbox_extended),
    bbox = st_bbox(bbox_extended),
    is.master = TRUE
  ) +
    tm_polygons(
      col = "cornsilk",
      alpha = 0.2,
      border.alpha = 0.5,
      lwd = 1.8
    )
}
```

```
# create mean yearly interval maps

(
    mexico_states_occ_mean_yearly_intervals_map_with_study_area <-
        boundaries_alt_with_study_area_plot_layer + mexico_states_occ_mean_yearly_intervals_map_layer + study_area_mask_alt_pl
ot_layer
)</pre>
```



```
(
  mexico_states_occ_mean_yearly_intervals_map_with_study_area_no_points <-
  boundaries_alt_with_study_area_plot_layer + mexico_states_occ_mean_yearly_intervals_map_no_points_layer +
  study_area_mask_alt_plot_layer
)</pre>
```



```
# save the image output
tmap_save(
  mexico_states_occ_mean_yearly_intervals_map_with_study_area,
  filename = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/mexico_states_occ_mean_yearly_intervals_map_with_st
udy_area_v3.png",
  scale = 1.7
)
```

Map saved to D:\Documents\WORK\Maxent\projects\mexico_vsv\outputs\vsv_all_occurrence_mean_yearly_interval_by_state\mexi
co_states_occ_mean_yearly_intervals_map_with_study_area_v3.png

Resolution: 2566.706 by 1718.155 pixels

Size: 8.555687 by 5.727185 inches (300 dpi)

```
# save the image output
tmap_save(
    mexico_states_occ_mean_yearly_intervals_map_with_study_area_no_points,
    filename = "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/mexico_states_occ_mean_yearly_intervals_map_with_st
udy_area_no_points_v3.png",
    scale = 1.7
)
```

Resolution: 2566.706 by 1718.155 pixels

Size: 8.555687 by 5.727185 inches (300 dpi)

```
## Save all objects in R environment ----
# save all objects in R environment
save.image(
   "outputs/vsv_all_occurrence_mean_yearly_interval_by_state/vsv_all_occurrence_mean_yearly_interval_by_state.RData"
)
```