# TP 3 : analyses des données sur animaux non-marqués

## Partie 1

### 1. Introduction

On charge le package unmarked.

```
library(unmarked)
```

### 2. Les données

On lit les données lézard ocelés.

```
dat <- read.csv2("dat/lezard-ocelle-oleron-2007-pa.csv")</pre>
```

On jette un coup d'oeil.

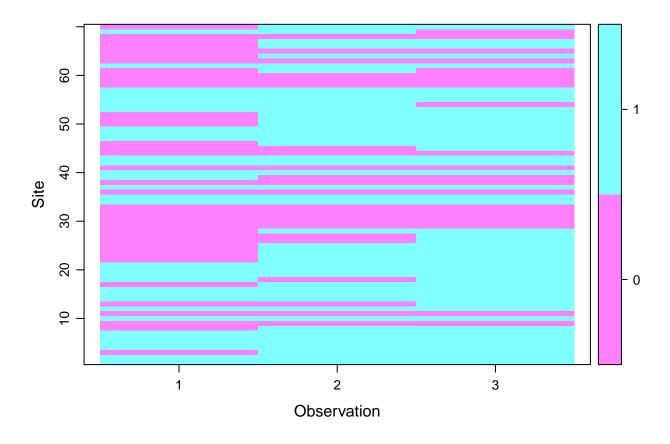
```
head(dat)
```

```
site presence_R1 presence_R2 presence_R3 Abond_R1 Abond_R2 Abond_R3 temp_R1
                                                                                   21.2
## 1
## 2
        2
                                                                    2
                                                                                   21.7
                     1
                                   1
                                                1
                                                          1
                                                                             5
                                                                    3
## 3
        3
                     0
                                   1
                                                                             1
                                                                                   22.7
## 4
        4
                     1
                                   1
                                                1
                                                          0
                                                                    1
                                                                              2
                                                                                   23.5
## 5
        5
                                                1
                                                                                   24.2
## 6
                                                1
                                                          1
                                                                                   23.9
                                   1
     temp_R2 temp_R3 vent_R1 vent_R2 vent_R3 nuage_R1 nuage_R2 nuage_R3
## 1
        24.8
                 21.6
                           2.7
                                    5.7
                                             3.3
## 2
        23.8
                 23.8
                           2.2
                                    4.7
                                             2.6
                                                         1
                                                                   2
## 3
        22.5
                 24.2
                           0.8
                                    2.5
                                            7.2
                                                                   2
                                                                             3
                                                         1
        22.4
                 18.3
                           2.4
                                    1.4
                                            1.3
                                                         1
                                                                   2
                                                                             3
        24.8
                                                                   2
                                                                             3
## 5
                 20.1
                           3.4
                                    2.2
                                            3.3
                                                         1
## 6
        26.3
                 23.9
                           2.7
                                    2.2
                                            6.7
##
     nb_terriers_lapins
## 1
## 2
                       5
## 3
                        1
                       2
## 4
## 5
                       5
## 6
                       10
```

Les dimensions.

```
dim(dat)
## [1] 70 17
On crée le jeu de données.
lezard <- unmarkedFrameOccu(y = cbind(dat$presence_R1, dat$presence_R2, dat$presence_R3))</pre>
Un coup d'oeil.
head(lezard)
## Data frame representation of unmarkedFrame object.
     y.1 y.2 y.3
## 1
       1 1
## 2
       1
           1
               1
## 3
       0
          1
## 4
       1
          1
               1
## 5
       1
          1 1
          1 1
## 6
       1
## 7
       1
## 8
       0 1 1
## 9
       0
          0 0
## 10
       1
           1
               1
Résumé des données.
summary(lezard)
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
## Tabulation of y observations:
##
   0 1
## 82 128
Et visuellement?
```

plot(lezard)



# 3. Modèle $(\psi, p)$

Aide de la fonction occu.

?occu

 ${\tt fm}$ 

Ajuste premier modèle, avec détection d'abord, puis occupancy. Ici ces paramètres sont constants.

```
fm <- occu(~ 1 ~ 1, lezard)
```

Les estimations sont sur l'échelle logit.

```
Des estimations sont sur l'echene logic
```

```
##
## occu(formula = ~1 ~ 1, data = lezard)
##
## Occupancy:
                      z P(>|z|)
   Estimate
                SE
##
        1.17 0.287 4.09 4.37e-05
##
## Detection:
##
   Estimate
               SE
                      z P(>|z|)
##
        1.38 0.207 6.64 3.13e-11
## AIC: 237.6654
```

On les back-transforme, c'est-à-dire qu'on obtient les estimations des probabilités entre 0 et 1.

```
#names(fm)
#fm['state']
#fm['det']
backTransform(fm, type ='state')
## Backtransformed linear combination(s) of Occupancy estimate(s)
##
##
   Estimate
                 SE LinComb (Intercept)
##
      0.763 0.0518
                       1.17
##
## Transformation: logistic
backTransform(fm, type ='det')
## Backtransformed linear combination(s) of Detection estimate(s)
##
##
   Estimate
                 SE LinComb (Intercept)
##
      0.798 0.0334
                       1.38
## Transformation: logistic
confint(backTransform(fm, type='state'))
       0.025
##
                 0.975
  0.647844 0.8498077
confint(backTransform(fm, type='det'))
       0.025
##
                 0.975
   0.7251664 0.8560502
Occupancy conditionnelle.
re <- ranef(fm)
re
               Mean Mode 2.5% 97.5%
##
## [1,] 1.00000000
                       1
                            1
                                  1
## [2,] 1.00000000
                            1
## [3,] 1.00000000
                       1
                            1
                                  1
## [4,] 1.00000000
                      1
                            1
                                  1
## [5,] 1.00000000
                            1
                                  1
                     1
## [6,] 1.00000000
                            1
                                  1
                     1
## [7,] 1.00000000
                     1
                            1
                                  1
## [8,] 1.00000000
                     1
                            1
                                  1
## [9,] 0.02574042 0
                            0
                                  1
## [10,] 1.00000000
                     1
                            1
                                  1
## [11,] 0.02574042
                       0
                            0
                                  1
```

```
## [12,] 1.00000000
                         1
                              1
                                     1
## [13,] 1.00000000
                              1
                                     1
                         1
## [14,] 1.00000000
                              1
                                     1
## [15,] 1.00000000
                         1
                              1
                                     1
## [16,] 1.00000000
                         1
                              1
                                     1
## [17,] 1.00000000
                         1
                              1
                                     1
## [18,] 1.0000000
                              1
                                     1
## [19,] 1.00000000
                         1
                              1
                                     1
## [20,] 1.00000000
                              1
                                     1
                         1
   [21,] 1.00000000
                         1
                              1
                                     1
## [22,] 1.00000000
                              1
                                     1
                         1
  [23,] 1.00000000
                         1
                              1
                                     1
## [24,] 1.00000000
                         1
                              1
                                     1
## [25,] 1.00000000
## [26,] 1.00000000
                              1
                                     1
                         1
## [27,] 1.00000000
                              1
                                     1
                         1
  [28,] 1.00000000
                         1
                              1
                                     1
   [29,] 0.02574042
                                     1
  [30,] 0.02574042
                         0
                              0
                                     1
## [31,] 0.02574042
                         0
                              0
                                     1
## [32,] 0.02574042
                         0
                              0
                                     1
## [33,] 0.02574042
                              0
                                     1
## [34,] 1.00000000
                         1
                              1
                                     1
## [35,] 1.00000000
                         1
                              1
                                     1
  [36,] 0.02574042
                         0
                              0
                                     1
  [37,] 1.00000000
                         1
                              1
                                     1
  [38,] 0.02574042
                              0
                         0
                                     1
## [39,] 1.00000000
                                     1
                         1
                              1
## [40,] 1.00000000
                              1
                                     1
## [41,] 0.02574042
                              0
                         0
                                     1
## [42,] 1.00000000
                         1
                              1
                                     1
## [43,] 1.0000000
                              1
                                     1
                         1
## [44,] 0.02574042
                                     1
## [45,] 1.00000000
                              1
                                     1
                         1
## [46,] 1.00000000
                              1
                                     1
                         1
## [47,] 1.00000000
                         1
                              1
                                     1
## [48,] 1.00000000
                              1
                                     1
## [49,] 1.00000000
                              1
                                     1
                         1
## [50,] 1.00000000
                         1
                              1
                                     1
## [51,] 1.00000000
                                     1
                         1
                              1
## [52,] 1.00000000
                         1
                              1
                                     1
  [53,] 1.00000000
                         1
                              1
                                     1
## [54,] 1.00000000
                         1
                              1
                                     1
## [55,] 1.00000000
                              1
                                     1
## [56,] 1.00000000
                                     1
                         1
                              1
## [57,] 1.00000000
                              1
                                     1
## [58,] 0.02574042
                         0
                              0
                                     1
   [59,] 0.02574042
                              0
                                     1
  [60,] 0.02574042
                         0
                              0
                                     1
   [61,] 1.00000000
                         1
                              1
                                     1
## [62,] 1.00000000
                         1
                              1
                                     1
## [63,] 0.02574042
                              0
                                     1
## [64,] 1.00000000
                         1
                              1
                                     1
## [65,] 0.02574042
```

### 4. Modèle $(\psi, p_t)$

On crée une variable pour l'effet du temps.

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
##
## Tabulation of y observations:
##
## 82 128
##
## Observation-level covariates:
##
     temps
## tps 1:70
## tps 2:70
## tps 3:70
```

Ajuste le modèle avec effet temps sur la détection.

```
fm1 <- occu(~ temps ~ 1, lezard)</pre>
```

L'occupancy.

```
backTransform(fm1, type = 'state')
```

```
## Backtransformed linear combination(s) of Occupancy estimate(s)
##
                 SE LinComb (Intercept)
##
   Estimate
##
        0.76 0.0515
                        1.15
##
## Transformation: logistic
confint(backTransform(fm1, type='state'))
                 0.975
##
        0.025
## 0.6454809 0.846208
Et pour la détection.
nd <- data.frame(temps = c('tps 1','tps 2','tps 3'))</pre>
predict(fm1, type = 'det', newdata = nd)
##
     Predicted
                       SE
                               lower
                                         upper
## 1 0.6015503 0.06732683 0.4654020 0.7236164
## 2 0.8835590 0.04463644 0.7642686 0.9466936
## 3 0.9211504 0.03779961 0.8081554 0.9700580
```

#### ranef(fm1)

Occupancy conditionnelle.

```
Mean Mode 2.5% 97.5%
##
##
   [1,] 1.0000000
                      1
                           1
## [2,] 1.0000000
                      1
                           1
                                 1
  [3,] 1.0000000
## [4,] 1.0000000
                      1
                           1
                                 1
##
   [5,] 1.0000000
                      1
                           1
                                 1
## [6,] 1.0000000
                      1
                           1
                                 1
## [7,] 1.0000000
                      1
                           1
                                 1
## [8,] 1.0000000
                      1
                           1
                                 1
## [9,] 0.0114465
                      0
                           0
                                 0
## [10,] 1.0000000
                      1
                           1
                                 1
## [11,] 0.0114465
                                 0
                      0
                           0
## [12,] 1.0000000
                      1
                           1
                                 1
## [13,] 1.0000000
                      1
                           1
                                 1
## [14,] 1.0000000
                           1
                                 1
## [15,] 1.0000000
                      1
                           1
                                 1
## [16,] 1.0000000
                      1
                           1
                                 1
## [17,] 1.0000000
                      1
                           1
                                 1
## [18,] 1.0000000
                                 1
## [19,] 1.0000000
                                 1
                      1
                           1
## [20,] 1.0000000
                      1
                           1
                                 1
## [21,] 1.0000000
                           1
                                 1
                      1
## [22,] 1.0000000
                           1
                                 1
## [23,] 1.0000000
                      1
                           1
                                 1
## [24,] 1.0000000
                           1
                                 1
```

```
## [25,] 1.0000000
                        1
                             1
                                    1
   [26,] 1.0000000
                        1
                             1
                                    1
   [27,] 1.0000000
                                    1
## [28,] 1.0000000
                        1
                                    1
## [29,] 0.0114465
                        0
                             0
                                    0
                                    0
## [30,] 0.0114465
                        0
                             0
## [31,] 0.0114465
                             0
                                    0
## [32,] 0.0114465
                        0
                             0
                                    0
## [33,] 0.0114465
                        0
                             0
                                    0
   [34,] 1.0000000
                        1
                                    1
## [35,] 1.0000000
                                    1
                        1
                             1
                                    0
## [36,] 0.0114465
                        0
                             0
## [37,] 1.0000000
                                    1
                        1
                             1
## [38,] 0.0114465
                             0
                                    0
## [39,] 1.0000000
                        1
                             1
                                    1
## [40,] 1.0000000
                             1
                                    1
                        0
## [41,] 0.0114465
                             0
                                    0
  [42,] 1.0000000
                        1
                             1
                                    1
## [43,] 1.0000000
                        1
                             1
                                    1
## [44,] 0.0114465
                        0
                             0
                                    0
## [45,] 1.0000000
                        1
                             1
                                    1
## [46,] 1.0000000
                             1
                                    1
## [47,] 1.0000000
                        1
                             1
                                    1
## [48,] 1.0000000
                        1
                             1
                                    1
## [49,] 1.0000000
                        1
                             1
                                    1
## [50,] 1.0000000
                        1
                             1
                                    1
  [51,] 1.0000000
                        1
                             1
                                    1
## [52,] 1.0000000
                        1
                             1
                                    1
## [53,] 1.0000000
                                    1
## [54,] 1.0000000
                        1
                             1
                                    1
## [55,] 1.0000000
                                    1
  [56,] 1.0000000
                        1
                             1
                                    1
   [57,] 1.0000000
                                    1
                                    0
## [58,] 0.0114465
                        0
                             0
   [59,] 0.0114465
                        0
                             0
                                    0
                                    0
## [60,] 0.0114465
                        0
                             0
## [61,] 1.0000000
                                    1
## [62,] 1.0000000
                        1
                             1
                                    1
## [63,] 0.0114465
                        0
                             0
                                    0
## [64,] 1.0000000
                        1
                             1
                                    1
## [65,] 0.0114465
                                    0
                             0
## [66,] 1.0000000
                        1
                             1
                                    1
## [67,] 1.0000000
                        1
                             1
                                    1
## [68,] 0.0114465
                        0
                             0
                                    0
## [69,] 1.0000000
                        1
                             1
                                    1
## [70,] 1.0000000
                             1
                                    1
```

# 5. Modèle $(\psi_{\mathbf{lapin}}, p)$

On récupère la variable lapin.

```
site.covs <- data.frame(lapin = dat$nb_terriers_lapins)
site.covs</pre>
```

шш		7 2
##		lapin
##	1	0
##	2	5
##	3	1
##	4	2
##	5	5
##	6	10
##	7	0
##	8	0
##	9	0
##	10	5
##	11	0
##	12	20
##	13	0
##	14	0
##	15	2
##	16	0
##	17	0
##	18	1
##	19	0
		10
##	20	0
##	21	
##	22	0
##	23	0
##	24	0
##	25	0
##	26	0
##	27	0
##	28	5
##	29	10
##	30	0
##	31	0
##	32	0
##	33	0
##	34	0
##	35	4
##	36	0
##	37	0
##	38	0
##	39	0
##	40	0
##	41	0
##	42	3
##	43	0
##	44	0
##	45	1
##	46	0
##	47	4
##	48	5
##	49	0
##	50	0
##	51	0
##	52	0
##	53	0

```
## 54
## 55
           0
## 56
## 57
         15
## 58
           0
## 59
           0
## 60
## 61
           0
## 62
           1
## 63
## 64
## 65
           0
## 66
           0
## 67
           5
## 68
           1
## 69
           0
## 70
           0
```

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
## Tabulation of y observations:
##
   0 1
## 82 128
##
## Site-level covariates:
##
       lapin
## Min. : 0.000
## 1st Qu.: 0.000
## Median: 0.000
## Mean
         : 1.643
## 3rd Qu.: 1.000
## Max.
          :20.000
```

Ajuste modèle.

```
fm2 <- occu(~ 1 ~ lapin, lezard)</pre>
```

On back-transforme la détection.

```
backTransform(fm2, type = 'det')
## Backtransformed linear combination(s) of Detection estimate(s)
##
##
    Estimate
                 SE LinComb (Intercept)
##
       0.784 0.0336
                        1.29
##
## Transformation: logistic
confint(backTransform(fm2, type='det'))
##
        0.025
                  0.975
    0.7112384 0.8428953
##
```

Et pour l'occupancy, on crée d'abord une grille de valeurs pour le nombre de terriers sur laquelle on va calculer cette probabilité.

On calcule la probabilité d'occupancy pour chaque valeur de terriers.

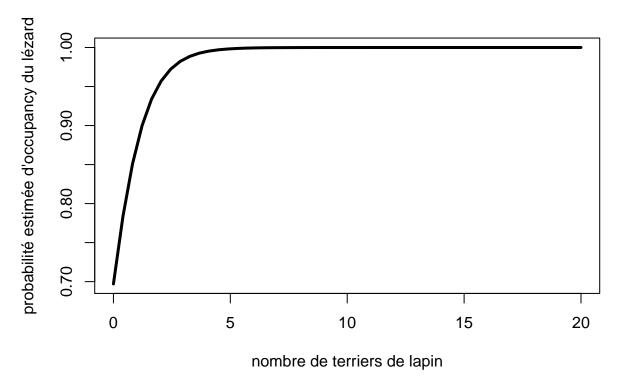
```
psi_pred <- predict(fm2, type = 'state', newdata = nd)
psi_pred</pre>
```

```
##
      Predicted
                          SE
                                    lower
                                              upper
## 1
     0.6970174 6.636942e-02 5.540805e-01 0.8098596
     0.7836811 7.266438e-02 6.099588e-01 0.8935339
## 3
     0.8508600 9.278133e-02 5.764772e-01 0.9598593
     0.8998425 9.670554e-02 5.230901e-01 0.9865936
     0.9339857 8.793310e-02 4.636466e-01 0.9957001
## 5
     0.9570453 7.333818e-02 4.030423e-01 0.9986418
     0.9722888 5.776786e-02 3.442402e-01 0.9995738
     0.9822233 4.374697e-02 2.893231e-01 0.9998667
     0.9886379 3.221259e-02 2.396697e-01 0.9999584
## 10 0.9927549 2.323522e-02 1.960183e-01 0.9999870
## 11 0.9953871 1.650034e-02 1.585596e-01 0.9999960
## 12 0.9970658 1.157644e-02 1.270678e-01 0.9999987
## 13 0.9981348 8.043888e-03 1.010429e-01 0.9999996
## 14 0.9988147 5.545562e-03 7.983801e-02 0.9999999
## 15 0.9992470 3.798334e-03 6.275826e-02 1.0000000
## 16 0.9995217 2.587313e-03 4.912828e-02 1.0000000
## 17 0.9996962 1.754103e-03 3.833166e-02 1.0000000
## 18 0.9998071 1.184354e-03 2.982959e-02 1.0000000
## 19 0.9998775 7.967952e-04 2.316546e-02 1.0000000
## 20 0.9999222 5.343538e-04 1.796100e-02 1.0000000
## 21 0.9999506 3.573356e-04 1.390810e-02 1.0000000
## 22 0.9999686 2.383492e-04 1.075902e-02 1.0000000
## 23 0.9999801 1.586161e-04 8.316482e-03 1.0000000
## 24 0.9999873 1.053339e-04 6.424541e-03 1.0000000
```

```
## 25 0.9999920 6.981603e-05 4.960639e-03 1.0000000
## 26 0.9999949 4.619315e-05 3.828875e-03 1.0000000
## 27 0.9999968 3.051377e-05 2.954457e-03 1.0000000
## 28 0.9999979 2.012629e-05 2.279210e-03 1.0000000
## 29 0.9999987 1.325650e-05 1.757973e-03 1.0000000
## 30 0.9999992 8.720345e-06 1.355745e-03 1.0000000
## 31 0.9999995 5.729497e-06 1.045430e-03 1.0000000
## 32 0.9999997 3.760207e-06 8.060691e-04 1.0000000
## 33 0.9999998 2.465191e-06 6.214674e-04 1.0000000
## 34 0.9999999 1.614585e-06 4.791144e-04 1.0000000
## 35 0.9999999 1.056498e-06 3.693514e-04 1.0000000
## 36 0.9999999 6.907127e-07 2.847237e-04 1.0000000
## 37 1.0000000 4.511992e-07 2.194794e-04 1.0000000
## 38 1.0000000 2.945108e-07 1.691815e-04 1.0000000
## 39 1.0000000 1.920941e-07 1.304074e-04 1.0000000
## 40 1.0000000 1.252056e-07 1.005180e-04 1.0000000
## 41 1.0000000 8.155402e-08 7.747805e-05 1.0000000
## 42 1.0000000 5.308765e-08 5.971834e-05 1.0000000
## 43 1.0000000 3.453673e-08 4.602902e-05 1.0000000
## 44 1.0000000 2.245540e-08 3.547737e-05 1.0000000
## 45 1.0000000 1.459230e-08 2.734433e-05 1.0000000
## 46 1.0000000 9.477651e-09 2.107558e-05 1.0000000
## 47 1.0000000 6.152642e-09 1.624385e-05 1.0000000
## 48 1.0000000 3.992233e-09 1.251974e-05 1.0000000
## 49 1.0000000 2.589239e-09 9.649380e-06 1.0000000
## 50 1.0000000 1.678567e-09 7.437057e-06 1.0000000
```

Visualise.

```
plot(nd$lapin,
    psi_pred[,1],
    type = "l",
    lwd = 3,
    xlab = "nombre de terriers de lapin",
    ylab = "probabilité estimée d'occupancy du lézard")
```



Occupancy conditionnelle.

### ranef(fm2)

```
##
                Mean Mode 2.5% 97.5%
    [1,] 1.00000000
##
                         1
                              1
                                     1
    [2,] 1.00000000
                              1
                                     1
##
    [3,] 1.00000000
                              1
                                     1
                         1
##
    [4,] 1.00000000
                         1
                              1
                                     1
    [5,] 1.00000000
##
                              1
                                     1
##
    [6,] 1.00000000
                                     1
    [7,] 1.00000000
##
                              1
                                     1
                         1
##
    [8,] 1.00000000
                         1
                              1
                                     1
##
    [9,] 0.02257866
                         0
                              0
                                     0
  [10,] 1.00000000
                              1
                                     1
                         1
   [11,] 0.02257866
                         0
                              0
                                     0
   [12,] 1.00000000
                                     1
                         1
                              1
  [13,] 1.00000000
                              1
                                     1
## [14,] 1.00000000
                              1
                                     1
  [15,] 1.00000000
                              1
                                     1
   [16,] 1.00000000
                         1
                              1
                                     1
   [17,] 1.00000000
                              1
                                     1
  [18,] 1.00000000
                              1
                                     1
                         1
   [19,] 1.00000000
                              1
                                     1
  [20,] 1.00000000
                                     1
                              1
## [21,] 1.00000000
                              1
                                     1
## [22,] 1.00000000
                                     1
                              1
## [23,] 1.00000000
                              1
                                     1
  [24,] 1.00000000
                                     1
                         1
                              1
  [25,] 1.00000000
                              1
                                     1
## [26,] 1.00000000
                                     1
                              1
```

```
## [27,] 1.00000000
                         1
                              1
                                     1
  [28,] 1.00000000
                              1
                                     1
                         1
## [29,] 0.99936285
                              1
                                     1
## [30,] 0.02257866
                              0
                                     0
                         0
## [31,] 0.02257866
                         0
                              0
                                     0
## [32,] 0.02257866
                         0
                              0
                                     0
## [33,] 0.02257866
                              0
                                     0
## [34,] 1.00000000
                         1
                              1
                                     1
## [35,] 1.00000000
                              1
                                     1
                         1
## [36,] 0.02257866
                         0
                              0
                                     0
## [37,] 1.00000000
                              1
                                     1
                         1
                              0
                                     0
## [38,] 0.02257866
                         0
## [39,] 1.00000000
                                     1
                         1
                              1
## [40,] 1.00000000
                                     1
## [41,] 0.02257866
                              0
                                     0
                         0
## [42,] 1.00000000
                         1
                              1
                                     1
## [43,] 1.00000000
                                     1
                         1
                              1
## [44,] 0.02257866
                                     0
## [45,] 1.00000000
                              1
                         1
                                     1
## [46,] 1.00000000
                         1
                              1
                                     1
## [47,] 1.00000000
                         1
                              1
                                     1
## [48,] 1.00000000
                              1
                                     1
## [49,] 1.0000000
                              1
                         1
                                     1
## [50,] 1.00000000
                         1
                              1
                                     1
## [51,] 1.00000000
                         1
                              1
                                     1
## [52,] 1.00000000
                         1
                              1
                                     1
## [53,] 1.00000000
                         1
                              1
                                     1
## [54,] 1.00000000
                         1
                              1
                                     1
## [55,] 1.00000000
                              1
                                     1
## [56,] 1.00000000
                         1
                              1
                                     1
## [57,] 1.00000000
                         1
                              1
                                     1
## [58,] 0.02257866
                         0
                              0
                                     0
## [59,] 0.02257866
                              0
                                     0
## [60,] 0.02257866
                              0
                                     0
                         0
## [61,] 1.00000000
                              1
                                     1
                         1
## [62,] 1.00000000
                         1
                              1
                                     1
## [63,] 0.02257866
                                     0
## [64,] 1.00000000
                              1
                                     1
                         1
## [65,] 0.02257866
                         0
                              0
                                     0
## [66,] 1.00000000
                              1
                                     1
                         1
## [67,] 1.00000000
                         1
                              1
                                     1
## [68,] 0.06566100
                         0
                              0
                                     1
## [69,] 1.00000000
                         1
                              1
                                     1
## [70,] 1.00000000
                         1
                                     1
                              1
```

# 6. Modèle $(\psi, p_{temp\'erature})$

On crée un variable pour l'effet des températures.

```
temp <- cbind(dat$temp_R1, dat$temp_R2, dat$temp_R3)</pre>
```

On refait le jeu de données.

```
lezard <- unmarkedFrameOccu(y = cbind(dat$presence_R1, dat$presence_R2, dat$presence_R3),</pre>
                            obsCovs = list(temp = temp))
Données?
summary(lezard)
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
##
## Tabulation of y observations:
##
   0 1
## 82 128
##
## Observation-level covariates:
##
        temp
## Min. :15.30
## 1st Qu.:20.43
## Median :23.20
## Mean :22.74
## 3rd Qu.:24.80
## Max. :30.50
Ajuste modèle.
fm3 <- occu(~ temp ~ 1, lezard)</pre>
On back-transforme l'occupancy.
backTransform(fm3, type = 'state')
## Backtransformed linear combination(s) of Occupancy estimate(s)
##
## Estimate
                 SE LinComb (Intercept)
##
       0.763 0.0517
                       1.17
##
## Transformation: logistic
confint(backTransform(fm3, type='state'))
```

Et pour la détection.

##

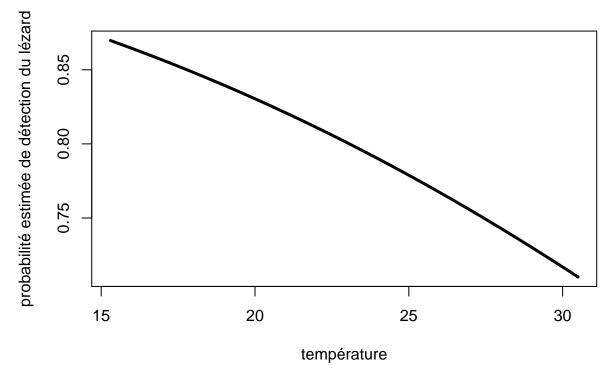
0.025

## 0.6473567 0.8489874

0.975

```
temp_partout <- c(dat$temp_R1, dat$temp_R2, dat$temp_R3)
nd <- data.frame(temp = seq(min(temp_partout), max(temp_partout), length = 50))
ppred <- predict(fm3, type = 'det', newdata = nd)</pre>
```

Visualise.



Occupancy conditionnelle.

### ranef(fm3)

```
Mean Mode 2.5% 97.5%
##
    [1,] 1.00000000
##
                       1
                             1
                                   1
    [2,] 1.00000000
                             1
##
                       1
                                   1
   [3,] 1.00000000
                             1
##
   [4,] 1.00000000
##
                             1
                                   1
                       1
##
   [5,] 1.00000000
                                   1
##
  [6,] 1.00000000
                                   1
                             1
  [7,] 1.00000000
                                   1
  [8,] 1.00000000
##
                             1
                                   1
## [9,] 0.03078700
                             0
                                   1
## [10,] 1.00000000
                                   1
                       1
                             1
## [11,] 0.02727979
                             0
                                   1
## [12,] 1.00000000
                                   1
                             1
```

```
## [13,] 1.00000000
                         1
                              1
                                     1
## [14,] 1.00000000
                              1
                                     1
                         1
## [15,] 1.00000000
                               1
                                     1
## [16,] 1.00000000
                         1
                              1
                                     1
## [17,] 1.00000000
                         1
                              1
                                     1
## [18,] 1.00000000
                         1
                              1
                                     1
## [19,] 1.00000000
                              1
                                     1
## [20,] 1.00000000
                         1
                              1
                                     1
## [21,] 1.00000000
                              1
                                     1
                         1
   [22,] 1.00000000
                         1
                              1
                                     1
## [23,] 1.00000000
                                     1
                         1
                               1
## [24,] 1.00000000
                         1
                               1
                                     1
## [25,] 1.00000000
                         1
                              1
                                     1
## [26,] 1.00000000
## [27,] 1.00000000
                               1
                                     1
                         1
## [28,] 1.00000000
                               1
                                     1
                         1
   [29,] 0.01913400
                         0
                              0
                                     0
   [30,] 0.02338107
                                     0
  [31,] 0.01493132
                         0
                              0
                                     0
## [32,] 0.01366491
                         0
                              0
                                     0
## [33,] 0.01678882
                         0
                              0
                                     0
## [34,] 1.00000000
                               1
                                     1
## [35,] 1.0000000
                         1
                               1
                                     1
## [36,] 0.01867697
                         0
                              0
                                     0
   [37,] 1.00000000
                         1
                              1
                                     1
   [38,] 0.02349402
                         0
                              0
                                     0
   [39,] 1.00000000
                         1
                              1
                                     1
## [40,] 1.00000000
                              1
                                     1
                         1
                                     0
## [41,] 0.01891895
                              0
## [42,] 1.00000000
                         1
                              1
                                     1
## [43,] 1.00000000
                         1
                               1
                                     1
## [44,] 0.02175670
                         0
                              0
                                     0
## [45,] 1.00000000
                               1
                                     1
## [46,] 1.00000000
                              1
                                     1
                         1
## [47,] 1.00000000
                              1
                                     1
                         1
## [48,] 1.00000000
                         1
                              1
                                     1
## [49,] 1.00000000
                              1
                                     1
## [50,] 1.00000000
                               1
                                     1
                         1
## [51,] 1.00000000
                         1
                              1
                                     1
## [52,] 1.00000000
                                     1
                         1
                              1
## [53,] 1.00000000
                         1
                              1
                                     1
## [54,] 1.00000000
                         1
                              1
                                     1
## [55,] 1.00000000
                         1
                              1
                                     1
## [56,] 1.00000000
                              1
                                     1
## [57,] 1.00000000
                                     1
                         1
                               1
## [58,] 0.01932929
                                     0
                         0
                              0
## [59,] 0.01859282
                         0
                              0
                                     0
   [60,] 0.01555955
                              0
                                     0
   [61,] 1.00000000
                                     1
                         1
                              1
   [62,] 1.00000000
                         1
                               1
                                     1
## [63,] 0.03437123
                         0
                              0
                                     1
## [64,] 1.00000000
                                     1
## [65,] 0.03401164
                         0
                              0
                                     1
## [66,] 1.00000000
                                     1
```

## 7. Modèle $(\psi, p_{\text{vent}})$

On crée un variable pour l'effet des vents.

```
vent <- cbind(dat$vent_R1, dat$vent_R2, dat$vent_R3)</pre>
```

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
## Tabulation of y observations:
##
   0
        1
## 82 128
##
## Observation-level covariates:
##
        vent
          :0.000
## Min.
## 1st Qu.:2.500
## Median :3.750
## Mean
         :3.941
## 3rd Qu.:5.000
## Max.
         :9.300
```

```
fm4 <- occu(~ vent ~ 1, lezard)</pre>
```

On back-transforme l'occupancy.

Ajuste modèle.

```
backTransform(fm4, type = 'state')
```

```
## Backtransformed linear combination(s) of Occupancy estimate(s)
##
```

```
## Estimate SE LinComb (Intercept)
## 0.763 0.0517 1.17 1
##
## Transformation: logistic

confint(backTransform(fm4, type='state'))

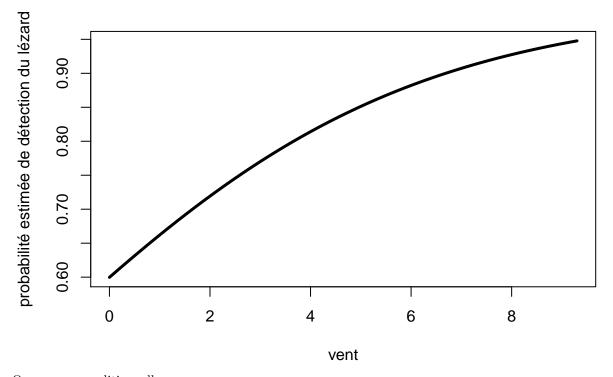
## 0.025 0.975
## 0.6474851 0.8491763
```

Et pour la détection.

```
vent_partout <- c(dat$vent_R1, dat$vent_R2, dat$vent_R3)
nd <- data.frame(vent = seq(min(vent_partout), max(vent_partout), length = 50))
det_pred <- predict(fm4, type = 'det', newdata = nd)</pre>
```

Visualise.

```
plot(nd$vent,
    det_pred[,1],
    type = "l",
    lwd = 3,
    xlab = "vent",
    ylab = "probabilité estimée de détection du lézard")
```



 ${\bf Occupancy\ conditionnelle.}$ 

```
ranef(fm4)
```

```
##
                 Mean Mode 2.5% 97.5%
                                1
##
    [1,] 1.000000000
                          1
                                      1
    [2,] 1.000000000
##
                          1
                                1
                                      1
    [3,] 1.000000000
##
                          1
                                1
                                      1
##
    [4,] 1.000000000
                          1
                                1
                                      1
##
    [5,] 1.000000000
                                1
                          1
                                      1
##
    [6,] 1.000000000
                          1
                                1
                                      1
##
    [7,] 1.000000000
                          1
                                1
                                      1
##
    [8,] 1.000000000
                          1
                                1
                                      1
##
    [9,] 0.056303334
                          0
                                0
                                      1
## [10,] 1.00000000
                                1
                          1
                                      1
                                0
   [11,] 0.004533178
                          0
                                      0
   [12,] 1.000000000
                                1
                          1
                                      1
   [13,] 1.000000000
                                1
                                      1
## [14,] 1.00000000
                          1
                                1
                                      1
   [15,] 1.000000000
                          1
                                1
                                      1
   [16,] 1.000000000
                          1
                                1
                                      1
   [17,] 1.000000000
                          1
                                1
                                      1
  [18,] 1.000000000
                          1
                                1
                                      1
## [19,] 1.000000000
                          1
                                1
                                      1
## [20,] 1.000000000
                          1
                                1
                                      1
## [21,] 1.000000000
                          1
                                1
                                      1
## [22,] 1.000000000
                          1
                                1
                                      1
## [23,] 1.000000000
                          1
                                1
                                      1
## [24,] 1.00000000
                          1
                                1
                                      1
## [25,] 1.000000000
                          1
                                1
                                      1
## [26,] 1.000000000
                          1
                                1
                                      1
## [27,] 1.00000000
                                1
                                      1
                          1
## [28,] 1.000000000
                          1
                                1
                                      1
## [29,] 0.030717053
                          0
                                0
                                      1
## [30,] 0.029764348
                          0
                                0
                                      1
   [31,] 0.006046676
                          0
                                0
                                      0
   [32,] 0.005759066
                                0
                                      0
## [33,] 0.009625633
                                0
                                      0
                          0
   [34,] 1.000000000
                          1
                                1
                                      1
## [35,] 1.000000000
                          1
                                1
                                      1
## [36,] 0.024972106
                                0
                                      0
## [37,] 1.000000000
                                1
                          1
                                      1
## [38,] 0.030246509
                          0
                                0
                                      1
## [39,] 1.000000000
                                1
                          1
                                      1
## [40,] 1.000000000
                          1
                               1
                                      1
  [41,] 0.038556115
                                0
                          0
                                      1
## [42,] 1.000000000
                          1
                                1
                                      1
## [43,] 1.000000000
                          1
                                1
                                      1
## [44,] 0.014784745
                          0
                                0
                                      0
## [45,] 1.000000000
                          1
                                1
                                      1
## [46,] 1.000000000
                          1
                                1
                                      1
## [47,] 1.000000000
                                1
                                      1
## [48,] 1.000000000
                          1
                                1
                                      1
## [49,] 1.000000000
                          1
                                1
                                      1
## [50,] 1.00000000
                          1
                                1
                                      1
## [51,] 1.000000000
                                1
                                      1
## [52,] 1.000000000
                                1
                          1
                                      1
## [53,] 1.000000000
                                1
                                      1
```

```
## [54,] 1.000000000
                              1
                        1
## [55,] 1.000000000
                              1
                        1
## [56,] 1.000000000
## [57,] 1.000000000
                              1
                         1
                                    1
## [58,] 0.017322393
                        0
                              0
## [59,] 0.016014435
                              0
                                    0
                        0
## [60,] 0.032906935
                              0
                        0
                                    1
## [61,] 1.000000000
                         1
                              1
                                    1
## [62,] 1.000000000
                        1
                              1
                                    1
                              0
                                    0
## [63,] 0.011400297
                         0
## [64,] 1.00000000
                              1
                                    1
                        1
## [65,] 0.024713128
                              0
                                    0
                        0
## [66,] 1.000000000
                              1
                                    1
                        1
## [67,] 1.000000000
                              1
## [68,] 0.042572489
                        0
                              0
                                    1
## [69,] 1.000000000
                        1
                              1
                                    1
## [70,] 1.000000000
                                    1
```

## 8. Modèle $(\psi, p_{\mathbf{nuages}})$

On crée un variable pour l'effet des nuages.

```
nuage <- cbind(dat$nuage_R1, dat$nuage_R2, dat$nuage_R3)</pre>
```

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
##
## Tabulation of y observations:
   0 1
##
##
   82 128
##
## Observation-level covariates:
##
       nuage
  Min.
          :1.000
##
  1st Qu.:1.000
## Median :1.000
## Mean
         :1.957
## 3rd Qu.:3.000
## Max.
          :5.000
```

Ajuste modèle.

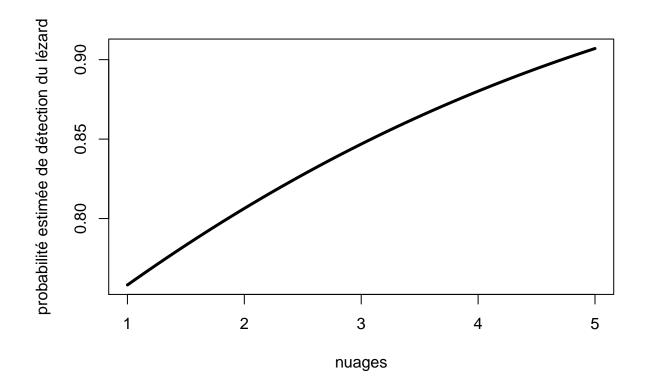
```
fm5 <- occu(~ nuage ~ 1, lezard)</pre>
```

On back-transforme l'occupancy.

```
backTransform(fm5, type = 'state')
## Backtransformed linear combination(s) of Occupancy estimate(s)
##
##
   Estimate
                 SE LinComb (Intercept)
       0.763 0.0517
##
                     1.17
##
## Transformation: logistic
confint(backTransform(fm5, type='state'))
        0.025
##
                  0.975
## 0.6476831 0.8495228
Et pour la détection.
nuage_partout <- c(dat$nuage_R1, dat$nuage_R2, dat$nuage_R3)</pre>
nd <- data.frame(nuage = seq(min(nuage_partout), max(nuage_partout), length = 50))</pre>
det_pred <- predict(fm5, type = 'det', newdata = nd)</pre>
```

Visualise.

```
plot(nd$nuage,
    det_pred[,1],
    type = "l",
    lwd = 3,
    xlab = "nuages",
    ylab = "probabilité estimée de détection du lézard")
```



## 9. Modèle $(\psi_{lapins}, p_t)$

On a refait le jeu de données à chaque fois, mais on aurait pu mettre toutes les covariables en une fois. Les covariables qui dépendent du temps.

La covariable qui dépend du site.

```
site.covs <- data.frame(lapin = dat$nb_terriers_lapins)
site.covs</pre>
```

```
##
      lapin
## 1
## 2
           5
## 3
           1
           2
## 5
           5
## 6
          10
## 7
           0
           0
## 9
           0
```

```
## 10
          5
## 11
          0
## 12
         20
## 13
          0
## 14
          0
## 15
           2
## 16
           0
## 17
           0
## 18
          1
## 19
          0
## 20
         10
## 21
          0
## 22
           0
## 23
           0
## 24
           0
## 25
           0
## 26
           0
## 27
          0
## 28
          5
## 29
         10
## 30
           0
## 31
           0
## 32
           0
## 33
           0
## 34
           0
## 35
           4
## 36
           0
## 37
           0
## 38
           0
## 39
           0
## 40
           0
## 41
           0
## 42
           3
## 43
           0
## 44
           0
## 45
           1
## 46
           0
## 47
           4
## 48
           5
## 49
           0
## 50
           0
## 51
           0
## 52
           0
## 53
           0
## 54
           0
## 55
           0
## 56
          0
## 57
          15
## 58
          0
## 59
           0
## 60
           0
## 61
           0
## 62
           1
## 63
           0
```

```
## 64 0
## 65 0
## 66 0
## 67 5
## 68 1
## 69 0
## 70 0
```

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 53
## Tabulation of y observations:
##
    0
        1
  82 128
##
##
## Site-level covariates:
##
       lapin
## Min. : 0.000
## 1st Qu.: 0.000
## Median: 0.000
## Mean
         : 1.643
## 3rd Qu.: 1.000
## Max.
          :20.000
##
## Observation-level covariates:
##
        temp
                        vent
                                      nuage
                                                    temps
          :15.30
                          :0.000
                                   Min. :1.000
                                                  tps 1:70
## Min.
                 Min.
## 1st Qu.:20.43
                  1st Qu.:2.500
                                   1st Qu.:1.000
                                                  tps 2:70
                                                  tps 3:70
## Median :23.20
                  Median :3.750
                                   Median :1.000
## Mean
         :22.74
                   Mean :3.941
                                   Mean
                                        :1.957
## 3rd Qu.:24.80
                   3rd Qu.:5.000
                                   3rd Qu.:3.000
## Max. :30.50
                   Max. :9.300
                                   Max. :5.000
```

Ajuste modèle.

```
fm6 <- occu(~ temps ~ lapin, lezard)</pre>
```

On back-transforme la détection.

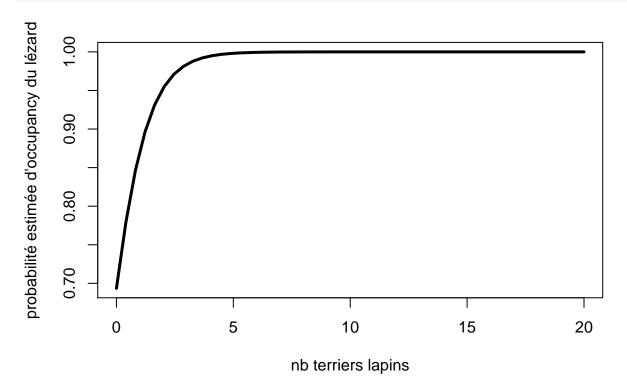
```
nd <- data.frame(temps = c('tps 1','tps 2','tps 3'))
predict(fm6, type = 'det', newdata = nd)</pre>
```

```
## 1 Predicted SE lower upper
## 1 0.5903143 0.06699593 0.4556944 0.7126354
## 2 0.8670254 0.04674690 0.7465347 0.9352091
## 3 0.9039182 0.04081258 0.7892671 0.9594010
```

Et pour l'occupancy.

Visualise.

```
plot(nd$lapin,
    occ_pred[,1],
    type = "1",
    lwd = 3,
    xlab = "nb terriers lapins",
    ylab = "probabilité estimée d'occupancy du lézard")
```



### 10. Sélection de modèles

On fait tourner les modèles avec le même jeu de données.

```
fm <- occu(~ 1 ~ 1, lezard)
fm1 <- occu(~ temps ~ 1, lezard)
fm2 <- occu(~ 1 ~ lapin, lezard)
fm3 <- occu(~ temp ~ 1, lezard)
fm4 <- occu(~ vent ~ 1, lezard)
fm5 <- occu(~ nuage ~ 1, lezard)
fm6 <- occu(~ temps ~ lapin, lezard)</pre>
```

On les rassemble.

Les AIC.

```
modSel(fmList)
```

```
##
                            nPars
                                     AIC delta
                                               AICwt cumltvWt
## {psi, p(temps)}
                                4 222.21 0.00 0.64237
                                                           0.64
## {psi(terrier), p(temps)}
                                5 223.39 1.19 0.35505
                                                           1.00
## {psi, p(vent)}
                                3 234.43 12.22 0.00142
                                                           1.00
## {psi, p(nuage)}
                                3 237.02 14.81 0.00039
                                                           1.00
## {psi(terrier), p}
                              3 237.53 15.32 0.00030
                                                           1.00
## {psi, p}
                                2 237.67 15.46 0.00028
                                                           1.00
## {psi, p(temp)}
                                3 238.59 16.38 0.00018
                                                           1.00
```

Les coefficients et SE.

```
coef(fmList)
```

```
##
                              psi(Int)
                                          p(Int) p(tempstps 2) p(tempstps 3)
## {psi, p}
                             1.1713346 1.3765499
                                                             NA
                                                                            NA
## {psi, p(temps)}
                             1.1521988 0.4119290
                                                       1.614644
                                                                     2.046152
## {psi(terrier), p}
                             0.8331349 1.2906682
                                                             NA
                                                                            NA
## {psi, p(temp)}
                             1.1670606 2.9072854
                                                             NA
                                                                            NA
## {psi, p(vent)}
                             1.1680789 0.4044432
                                                             NA
                                                                            NA
## {psi, p(nuage)}
                             1.1698669 0.8590802
                                                             NA
                                                                            NA
## {psi(terrier), p(temps)} 0.8168358 0.3652647
                                                       1.509645
                                                                     1.876275
##
                             psi(lapin)
                                            p(temp)
                                                       p(vent) p(nuage)
## {psi, p}
                                                            NA
                                     NA
                                                 NA
                                                                      NA
## {psi, p(temps)}
                                     NA
                                                 NA
                                                            NA
                                                                      NA
## {psi(terrier), p}
                              1.112579
                                                            NA
                                                                      NA
                                                 NA
## {psi, p(temp)}
                                     NA -0.06593141
                                                            NA
                                                                      NΑ
```

```
## {psi, p(vent)}
                                     NA
                                                 NA 0.2681045
## {psi, p(nuage)}
                                     NΑ
                                                 NΑ
                                                            NA 0.2837187
## {psi(terrier), p(temps)}
                               1.095185
                                                 NA
                                                            NA
                                                                      NA
SE(fmList)
##
                             psi(Int)
                                          p(Int) p(tempstps 2) p(tempstps 3)
## {psi, p}
                             0.2866169 0.2073071
                                                                           NA
                                                             NA
                                                     0.5137252
                                                                    0.5873551
## {psi, p(temps)}
                             0.2821304 0.2808942
## {psi(terrier), p}
                             0.3142727 0.1986067
                                                             NA
                                                                           NA
                                                                           NA
## {psi, p(temp)}
                             0.2855257 1.5146917
                                                             NA
## {psi, p(vent)}
                             0.2857584 0.4670586
                                                             NA
                                                                           NA
## {psi, p(nuage)}
                             0.2862278 0.3770512
                                                             NA
                                                                           NA
## {psi(terrier), p(temps)} 0.3107411 0.2770220
                                                     0.4881479
                                                                    0.5418638
##
                             psi(lapin)
                                           p(temp)
                                                     p(vent) p(nuage)
## {psi, p}
                                     NA
                                                NA
                                                           NA
                                                                     NA
## {psi, p(temps)}
                                     NA
                                                NA
                                                                     NA
                                                           NA
                             0.8933203
## {psi(terrier), p}
                                                NA
                                                          NA
                                                                     NA
## {psi, p(temp)}
                                     NA 0.06408379
                                                                     NA
## {psi, p(vent)}
                                     NA
                                                                     NA
                                                NA 0.1235454
## {psi, p(nuage)}
                                                          NA 0.1856837
                                                NA
## {psi(terrier), p(temps)} 0.8866299
                                                NA
                                                          NA
                                                                     NA
```

### Partie 2

On lit les données lézard ocelés.

```
dat <- read.csv2("dat/lezard-ocelle-oleron-2007-pa.csv")</pre>
```

Les covariables qui dépendent du temps.

La covariable qui dépend du site.

```
site.covs <- data.frame(lapin = dat$nb_terriers_lapins)
site.covs</pre>
```

```
## lapin
## 1 0
## 2 5
## 3 1
## 4 2
```

```
## 5
          5
## 6
         10
## 7
           0
## 8
           0
## 9
           0
## 10
           5
## 11
           0
## 12
         20
## 13
           0
## 14
           0
## 15
           2
## 16
           0
## 17
           0
## 18
           1
## 19
           0
## 20
         10
## 21
          0
## 22
           0
## 23
           0
## 24
           0
## 25
           0
## 26
           0
## 27
           0
## 28
          5
## 29
         10
## 30
          0
## 31
           0
## 32
           0
## 33
           0
## 34
           0
## 35
           4
## 36
           0
## 37
           0
## 38
           0
## 39
           0
## 40
           0
## 41
           0
## 42
           3
## 43
           0
## 44
           0
## 45
           1
## 46
           0
## 47
           4
## 48
           5
## 49
           0
## 50
           0
## 51
           0
## 52
           0
## 53
           0
## 54
           0
## 55
           0
## 56
           0
## 57
         15
## 58
           0
```

```
## 59
## 60
           0
## 61
## 62
           1
## 63
## 64
           0
## 65
## 66
           0
## 67
           5
## 68
           1
## 69
           0
## 70
           0
```

On refait le jeu de données.

Données?

```
summary(lezard)
```

```
## unmarkedFrame Object
##
## 70 sites
## Maximum number of observations per site: 3
## Mean number of observations per site: 3
## Sites with at least one detection: 44
##
## Tabulation of y observations:
   0
      1 2
                3
                   5
## 124 65 18
##
## Site-level covariates:
       lapin
##
## Min. : 0.000
  1st Qu.: 0.000
## Median : 0.000
## Mean : 1.643
## 3rd Qu.: 1.000
## Max. :20.000
##
## Observation-level covariates:
##
                       vent
        temp
                                     nuage
                                                   temps
  Min. :15.30 Min. :0.000
                                  Min. :1.000
                                                 tps 1:70
## 1st Qu.:20.43 1st Qu.:2.500
                                  1st Qu.:1.000
                                                 tps 2:70
## Median :23.20
                  Median :3.750
                                  Median :1.000
                                                 tps 3:70
## Mean :22.74
                  Mean :3.941
                                  Mean
                                       :1.957
## 3rd Qu.:24.80
                  3rd Qu.:5.000
                                  3rd Qu.:3.000
                                  Max. :5.000
## Max. :30.50 Max. :9.300
```

```
Ajuste modèle.
```

```
fm <- pcount(~ 1 ~ 1, lezard, K = 100) # detection, then abundance
On back-transforme la détection.
names(fm)
## [1] "state" "det"
backTransform(fm, "state")
## Backtransformed linear combination(s) of Abundance estimate(s)
##
##
   Estimate
                SE LinComb (Intercept)
##
        1.48 0.306
                   0.392
##
## Transformation: exp
backTransform(fm, "det")
## Backtransformed linear combination(s) of Detection estimate(s)
##
##
    Estimate
                 SE LinComb (Intercept)
##
        0.36 0.0711 -0.573
##
## Transformation: logistic
Abondance.
ranef(fm)
##
              Mean Mode 2.5% 97.5%
                      2
                           2
## [1,] 2.3870908
## [2,] 5.6583727
                                 8
                      5
                           5
## [3,] 3.5013750
                           3
                                 5
                      3
```

```
2
## [4,] 2.5492509
                     2
                                 4
## [5,] 3.1355654
                     3
                          2
                                 5
## [6,] 3.6408386
                     3
                          3
                                 5
## [7,] 2.7543916
                     2
                          2
                                 5
## [8,] 1.6661575
                          1
                                 3
                     1
                                 2
## [9,] 0.3870908
                     0
                          0
## [10,] 2.0192330
                     2
                                 4
                          1
                                 2
## [11,] 0.3870908
                     0
                          0
## [12,] 2.0192330
                     2
                                 4
                          1
## [13,] 0.3870908
                          0
                                 2
## [14,] 1.3870908
                                 3
                     1
                          1
## [15,] 1.3870908
                     1
                          1
                                 3
                                 3
## [16,] 1.6661575
                     1
                          1
## [17,] 0.3870908
                     0
                          0
                                 2
                                 2
## [18,] 0.3870908
                     0
                          0
```

```
## [19,] 1.6661575
                                    3
                        1
                             1
                                    3
## [20,] 1.6661575
                        1
                             1
## [21,] 2.7543916
                                    5
## [22,] 2.8868044
                        3
                                    5
                             2
## [23,] 2.8868044
                        3
                             2
                                    5
                        2
                                    4
## [24,] 2.5492509
                             2
## [25,] 1.6661575
                                    3
                        1
                             1
## [26,] 1.3870908
                        1
                             1
                                    3
## [27,] 0.3870908
                        0
                             0
                                    2
                                    3
## [28,] 1.3870908
                        1
                             1
## [29,] 0.3870908
                        0
                             0
                                    2
                                    2
## [30,] 0.3870908
                        0
                             0
                                    2
## [31,] 0.3870908
                        0
                             0
                                    2
## [32,] 0.3870908
                        0
                             0
## [33,] 0.3870908
                                    2
                        0
                             0
## [34,] 2.0192330
                        2
                                    4
                             1
                                    3
  [35,] 1.6661575
                        1
                             1
                                    2
  [36,] 0.3870908
                                    3
  [37,] 1.6661575
                        1
                             1
                                    2
## [38,] 0.3870908
                        0
                             0
## [39,] 1.3870908
                        1
                             1
                                    3
## [40,] 1.3870908
                                    3
                        1
                             1
## [41,] 0.3870908
                                    2
                        0
                             0
## [42,] 1.3870908
                                    3
                        1
                             1
                                    4
## [43,] 2.0192330
                        2
                             1
## [44,] 0.3870908
                        0
                             0
                                    2
## [45,] 0.3870908
                        0
                             0
                                    2
                                    3
## [46,] 1.6661575
                        1
                             1
## [47,] 2.0192330
                        2
                                    4
                             1
## [48,] 2.0192330
                        2
                                    4
                             1
## [49,] 1.3870908
                        1
                             1
                                    3
## [50,] 2.8868044
                        3
                             2
                                    5
                                    3
  [51,] 1.6661575
                        1
                             1
## [52,] 2.5492509
                                    4
                        2
                             2
                                    3
   [53,] 1.3870908
                        1
                             1
                                    3
## [54,] 1.6661575
                        1
                             1
## [55,] 1.3870908
                             1
                                    3
## [56,] 2.0192330
                        2
                                    4
                             1
## [57,] 2.3870908
                        2
                             2
                                    4
                        0
                                    2
## [58,] 0.3870908
                             0
## [59,] 0.3870908
                        0
                                    2
                             0
  [60,] 0.3870908
                        0
                             0
                                    2
                                    3
## [61,] 1.3870908
                        1
                             1
                                    2
## [62,] 0.3870908
                        0
                             0
## [63,] 0.3870908
                                    2
                        0
                             0
                                    2
## [64,] 0.3870908
                        0
                             0
                                    2
## [65,] 0.3870908
                        0
                             0
                                    2
   [66,] 0.3870908
                        0
                             0
  [67,] 2.3870908
                        2
                             2
                                    4
                                    2
   [68,] 0.3870908
                        0
                             0
## [69,] 0.3870908
                        0
                             0
                                    2
                             2
                                    4
## [70,] 2.5492509
```

On fait tourner qqs modèles avec le même jeu de données.

```
fm <- pcount(~ 1 ~ 1, lezard, K = 100)
fm1 <- pcount(~ temps ~ 1, lezard, K = 100)
fm2 <- pcount(~ 1 ~ lapin, lezard, K = 100)
fm3 <- pcount(~ temp ~ 1, lezard, K = 100)
fm4 <- pcount(~ temps ~ lapin, lezard, K = 100)</pre>
```

On les rassemble.

Les AIC.

```
modSel(fmList)
```

```
AIC delta
                                               AICwt cumltvWt
##
                            nPars
## {lambda(terrier), p(temps)}
                            5 370.70 0.00 8.2e-01
                                                       0.82
                               4 373.73 3.03 1.8e-01
## {lambda, p(temps)}
                                                       1.00
                              3 384.92 14.21 6.7e-04
## {lambda(terrier), p}
                                                       1.00
## {lambda, r}
                              2 388.28 17.58 1.2e-04
                                                       1.00
## {lambda, p(temp)}
                              3 390.22 19.52 4.7e-05
                                                       1.00
```

On back-transforme la détection.

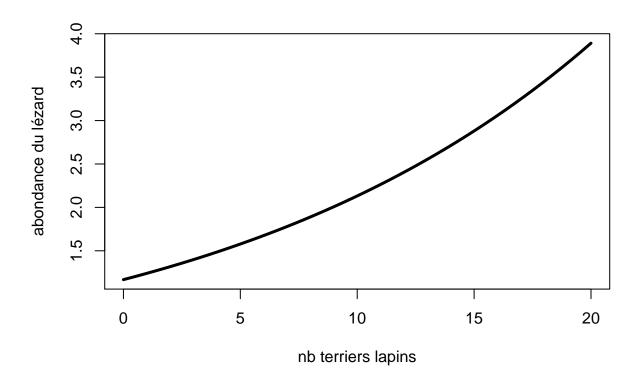
```
nd <- data.frame(temps = c('tps 1','tps 2','tps 3'))
predict(fm4, type = 'det', newdata = nd)</pre>
```

```
## Predicted SE lower upper
## 1 0.2256764 0.05521334 0.1356192 0.3512355
## 2 0.5050785 0.09246544 0.3307763 0.6781549
## 3 0.4728425 0.08841737 0.3091775 0.6425602
```

Et pour l'abondance.

Visualise.

```
plot(nd$lapin,
    N_pred[,1],
    type = "l",
    lwd = 3,
    xlab = "nb terriers lapins",
    ylab = "abondance du lézard")
```



## Partie 3

On lit les données.

```
dat <- readxl::read_xlsx("dat/dynoccupancy.xlsx")</pre>
dat
## # A tibble: 250 x 30
      'Session 1-1' 'Session 1-2' 'Session 1-3' 'Session 2-1' 'Session 2-2'
##
                             <dbl>
                                            <dbl>
                                                           <dbl>
##
              <dbl>
                                                                          <dbl>
##
   1
                   0
                                 0
                                                0
                                                               0
                                                                              1
    2
                   0
##
                                  0
                                                0
                                                               0
                                                                              0
##
    3
                   0
                                  0
                                                0
                                                               0
                                                                              0
##
                                  0
                                                0
                   0
                                  0
                                                               0
##
    5
                                                0
                                                                              0
##
    6
                   0
                                  0
                                                               0
##
    7
                   0
                                  0
                                                0
                                                               0
                                                                              0
##
                                  0
                                                1
                                                0
                                                               0
##
    9
                   1
                                  1
                                                                              1
## 10
                                  0
     ... with 240 more rows, and 25 more variables: 'Session 2-3' <dbl>, 'Session
       3-1' <dbl>, 'Session 3-2' <dbl>, 'Session 3-3' <dbl>, 'Session 4-1' <dbl>,
       'Session 4-2' <dbl>, 'Session 4-3' <dbl>, 'Session 5-1' <dbl>, 'Session
##
##
       5-2' <dbl>, 'Session 5-3' <dbl>, 'Session 6-1' <dbl>, 'Session 6-2' <dbl>,
       'Session 6-3' <dbl>, 'Session 7-1' <dbl>, 'Session 7-2' <dbl>, 'Session
## #
       7-3' <dbl>, 'Session 8-1' <dbl>, 'Session 8-2' <dbl>, 'Session 8-3' <dbl>,
## #
       'Session 9-1' <dbl>, 'Session 9-2' <dbl>, 'Session 9-3' <dbl>, 'Session
## #
       10-1' <dbl>, 'Session 10-2' <dbl>, 'Session 10-3' <dbl>
```

La covariable année.

```
## $year
                  [,2]
                          [,3]
                                  [, 4]
                                          [,5]
                                                  [,6]
                                                           [,7]
                                                                   [,8]
          [,1]
     [1,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
     [2,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
     [3,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
     [4,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
     [5,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
     [6,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
     [7,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
     [8,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
     [9,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [10,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [11,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [12,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [13,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [14,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [15,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [16,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [17,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [18,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
    [19,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [20,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [21,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [22,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [23,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [24,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
    [25,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
    [26,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [27,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [28,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
    [29,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
##
    [30,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [31,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [32,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [33,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [34,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [35,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [36,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
    [37,] "year1" "year2" "year3" "year4" "year5" "year6" "year7" "year8" "year9"
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Le jeu de données formaté pour unmarked.

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##	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
##	89	0	0	0	0	0	1	1	0	1	1	1	0	0	0	0	1	1
##	90	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
##	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	93	0	0	0	1	1	0	0	1	1	0	0	1	0	1	1	0	0
##	94	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
## ##	95 96	1 0	0	0	1 0	0	1 0	0	0	0	0	1 1	1 1	0	0	0	0	0
##	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	117	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	127	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1

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	138	0		0		0			0				0	0	0		0	0
			0		0		0	0		0	0	0				0		
	139	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	1	0
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	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	172	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
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	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
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	180	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	1	0
	181	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0
π#	101	J	U	U	U	T	J	1	U	1	J	J	U	U	U	U	J	U

##	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	190	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
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	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	198	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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##	200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	209	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	211	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	214	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
	215	0	0	0	0	0	1	1	1	0	1	0	1	0	0	0	0	0
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##	217	0	1	0	0	1	1	0	1	1	1	0	1	0	0	0	0	0
##	218	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	219	0	0	0	1	1	0	1	1	1	0	0	0	0	0	0	0	0
	220	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0
	221	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	222	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0
	223																	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	224	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	225	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0		0
	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	230	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0
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	232	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	233	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	235	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1

##	236	0	1	1 (		0	0	0 0		0	0	0	0	0	0
##	237	0	0	0 (		0	0	0 0		0	0	0	0	0	0
##	238	0	0	0 (		0	0	1 1		0	1	0	0	0	0
##	239	0	0	0 1		1	1	0 1		1	1	0	0	0	0
##	240	0	0	0 (		0	1	0 0		0	0	0	0	0	0
##	241	0	0	0 (		1	0	1 0		0	0	0	0	0	0
##	242	0	0	0 (		0	0	0 0		0	0	0	0	0	0
##	243	0	1	0 (		1	1	1 0		1	0	0	0	0	0
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##	246	0	0	0 (		0	1	1 0		1	0	0	1	0	1
##	247	0	0	0 (		0	0	0 0		0	0	0	0	0	0
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##	249	0	0		L 0	1	0	1 1		1	1	0	0	0	0
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##		y.18	y.19				y.23		y.25						year.1
##	1	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	2	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	3	0	0	0	0	0	0	1	0	1	1	1	0	0	year1
##	4	0	0	0	0	0	0	0	1	1	0	0	0	0	year1
##	5	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
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##	8	1	1	1	1	0	0	0	0	1	1	0	0	1	year1
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##	10	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	11	0	0	0	1	0	0	0	0	0	0	0	0	0	year1
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##	15	0	0	0	0	0	1	1	0	1	0	0	0	0	year1
##	16	0	0	0	0	0	0	0	1	0	0	0	0	0	year1
##	17 18	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	19	0		0	0		0	0	1	1	1	1	0	0	year1
##	20	0	0	0	0	0	0	0	1 0	1 1	0 1	0	1 0	0	year1
##	21	0	0	0	0	0	0	0	0	0	0	1	0	0	year1
##	22	0	0	0	0	1	1	1	0	0	0	0	1	0	year1 year1
##	23	0	1	1	0	0	1	0	1	1	0	0	0	0	year1
##	24	0	0	0	0	0	0	0	1	1	0	1	1	0	year1
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##	26	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	27	1	0	0	0	0	0	0	1	1	1	0	0	0	year1
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	29	1	1	1	1	0	0	1	0	1	1	0	1	0	year1
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	31	0	1	0	1	1	1	1	0	0	0	0	0	0	year1
	32	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	33	0	1	0	1	0	0	0	1	0	1	0	1	0	year1
	34	0	1	0	1	0	0	0	0	0	0	0	0	0	year1
	35	0	1	0	0	1	1	0	0	1	0	0	0	0	year1
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##	37	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	38	0	0	0	0	0	1	0	1	0	1	0	0	0	year1
		9	•	J	J	J	_	v	-	v	-	J	J	•	<i>J</i>

##	39	0	0	0	0	1	0	1	0	1	1	0	0	0	year1
##	40	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	41	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
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##	45	0	0	0	0	0	0	0	0	0	1	0	0	0	year1
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##	47	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	48	0	0	0	0	0	1	1	1	1	1	0	0	0	year1
##	49	0	0	1	0	1	1	1	1	1	1	0	0	0	year1
##	50	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	51	0	0	0	0	0	0	0	0	0	0	0	0	1	year1
##	52	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	53	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	54	1	0	1	1	0	1	0	0	0	0	0	0	0	year1
##	55	0	1	0	0	0	1	0	0	0	0	0	0	0	year1
##	56	0	0	0	0	1	1	1	1	1	1	0	1	0	year1
##	57	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	58	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
## ##	59 60	0 1	0	0 1	0 1	0 1	1 0	0	0 1	0 1	1 1	0	0	0	year1
##	61	0	0	0	0	0	0	0	0	0	0	0	0	0	year1 year1
##	62	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	63	0	1	1	1	1	1	1	1	0	0	0	0	0	year1
##	64	0	0	0	1	1	1	1	1	0	0	0	1	0	year1
##	65	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	66	0	0	0	0	1	0	0	1	1	1	0	0	0	year1
##	67	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	68	0	0	0	0	1	0	0	0	0	0	0	0	0	year1
##	69	0	1	1	1	1	0	0	0	0	0	0	0	0	year1
##	70	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	71	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	72	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	73	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	74	0	1	1	0	0	0	0	1	1	1	0	0	0	year1
##	75	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	76	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	77	0	1	0	1	0	1	1	0	0	0	0	0	0	year1
##	78	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	79	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	80	0	1	0	1	1	1	0	0	1	1	1	0	0	year1
##	81	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
## ##	82 83	0 0	0	0 0	0	0	0	0	0	0 0	0 0	0	0	0	year1
##	84	0	0	1	1	1	1	1	1	1	0	0	0 0	0	year1
##	85	0	0	0	0	0	0	0	0	0	0	0	0	0	year1 year1
##	86	0	1	1	0	0	1	1	0	0	0	0	0	0	year1
	87	0	0	0	0	0	0	0	1	1	1	0	1	0	year1
##	88	1	0	0	0	1	1	0	0	0	1	0	0	0	year1
##	89	0	1	0	0	0	1	1	1	1	1	0	0	0	year1
	90	0	0	Ö	0	0	0	0	1	0	1	0	0	0	year1
##	91	0	0	0	0	0	0	0	0	1	1	0	0	0	year1
##		0	1	0	1	0	0	0	1	1	0	0	0	0	year1

##	93	0	0	0	0	1	1	1	0	0	0	0	0	0	year1
##	94	0	0	0	0	0	0	0	1	1	0	0	0	0	year1
##	95	0	0	0	0	0	0	0	1	0	1	0	0	0	year1
##	96	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	97	0	0	0	0	0	0	0	1	0	1	0	1	0	year1
##	98	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	99	0	1	1	0	0	1	1	0	1	1	0	0	0	year1
##	100	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	101	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	102	0	1	1	0	0	1	1	1	1	1	0	0	0	year1
##	103	0	1	1	1	0	1	0	0	1	0	0	1	0	year1
##	104	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	105	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	106	0	0	0	0	0	0	0	1	0	0	0	1	0	year1
##	107	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	108	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
## ##	109 110	0	0	1 0	0	0	1 0	0	0 1	0	0	0	0	0	year1
##	111	0	0	0	0	0	0	0	0	1 0	0	0	0	0	year1 year1
##	112	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	113	1	0	1	1	0	0	0	0	0	1	0	1	1	year1
##	114	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	115	0	0	0	1	0	1	0	1	0	1	0	0	0	year1
##	116	0	0	1	1	1	0	1	0	1	1	0	0	0	year1
##	117	0	0	0	0	0	0	0	1	1	1	0	0	1	year1
##	118	0	0	1	1	0	0	0	0	0	0	1	0	0	year1
##	119	0	0	0	0	0	0	0	0	0	0	1	0	0	year1
##	120	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	121	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	122	1	1	1	1	0	0	0	0	0	0	0	0	0	year1
##	123	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	124	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	125	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	126	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	127	0	0	1	0	1	1	0	0	1	0	0	0	0	year1
##	128	0	0	0	0	1	0	0	0	0	0	0	0	0	year1
##	129	0	1	0	1	1	1	0	0	1	0	0	0	0	year1
##	130	0	0	0	0	1	1	0	1	0	0	0	0	0	year1
	131	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	132	1	1	1	0	1	1	1	1	1	1	0	0	0	year1
	133	0	1	1	1	0	0	0	1	1	0	0	0	0	year1
	134	1	0	0	0	0	0	0	0	0	0	0	0	0	year1
## ##	135 136	0	1 0	1 0	0	0	0	0 0	1 0	0	0	1 0	0	0	year1
	137	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	138	0	0	0	0	0	0	0	0	1	1	0	1	1	year1 year1
	139	1	0	0	0	0	0	0	0	0	0	1	1	1	year1
	140	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	141	0	1	1	1	0	0	0	0	0	0	0	0	0	year1
	142	0	0	0	0	0	0	0	1	0	1	0	1	0	year1
	143	1	0	1	0	0	0	0	0	0	0	0	0	0	year1
	144	0	0	0	0	0	0	0	1	1	1	0	0	1	year1
	145	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
	146	0	0	0	0	0	0	0	0	0	0	0	0	0	year1

##	147	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	148	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	149	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	150	0	0	0	0	0	0	0	1	1	1	0	0	0	year1
##	151	1	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	152	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	153	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	154	0	0	1	0	1	1	0	0	1	1	1	0	0	year1
##	155	0	1	0	1	0	1	1	0	1	1	0	0	0	year1
##	156	0	0	0	0	0	0	1	1	1	0	0	0	1	year1
##	157	0	0	0	0	0	0	0	0	0	0	0	0	1	year1
##	158	0	0	0	0	0	1	1	1	1	0	0	0	1	year1
##	159	0	1	0	0	0	0	0	0	0	0	0	0	0	year1
##	160	0	0	0	0	0	0	0	1	0	1	0	0	0	year1
##	161	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	162	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	163	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	164	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	165	0	0	0	0	1	1	0	0	1	1	0	0	0	year1
##	166	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	167	1	1	0	0	1	1	1	1	0	0	0	0	0	year1
##	168	0	0	0	0	0	0	1	1	1	1	0	0	0	year1
##	169	0	1	0	0	0	0	0	0	0	0	0	0	0	year1
##	170	0	0	0	0	0	0	0	0	0	1	0	1	1	year1
##	171	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
## ##	<ul><li>172</li><li>173</li></ul>	0	0 1	0	0 1	1 1	1 1	0 1	0 1	0 1	0 1	0	0	0	year1 year1
##	174	0	1	1	0	1	0	0	0	0	0	0	0	0	year1
##	175	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	176	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	177	1	0	0	0	1	0	0	0	0	1	0	0	0	year1
##	178	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	179	0	1	0	1	0	1	1	1	1	1	0	0	0	year1
##	180	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	181	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	182	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	183	0	0	0	0	0	1	0	1	1	1	0	0	0	year1
##	184	0	0	0	1	0	1	1	0	0	0	0	0	0	year1
##	185	0	0	0	0	1	0	1	1	1	1	0	0	0	year1
##	186	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	187	0	1	0	1	1	0	0	0	1	0	0	0	1	year1
##	188	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	189	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	190	0	1	0	1	1	1	1	0	0	0	0	0	0	year1
##	191	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	192	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	193	1	1	1	1	0	1	0	1	1	1	0	0	0	year1
##	194	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	195	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	196	0	1	0	0	0	0	0	1	1	0	0	0	0	year1
##	197	0	1	1	1	0	0	0	0	0	0	0	0	0	year1
##	198	0	0	1	1	1	1	0	0	0	1	0	1	1	year1
##	199	0	0	0	0	0	0	0	0	0	0	0	0	0	year1
##	200	0	0	0	0	0	1	0	1	1	1	0	0	0	year1

##	201	0	0 :	1 0	1	1 1	1	1	0 0	0 (	) year1
##	202	0		0 0	0	0 0	1		0 1		year1
##	203	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	204	0		0 0	0	0 0	0		0 0		year1
##	205	0		1 1	0	0 0	0		0 0		year1
##	206	0	0 (	0 0	0	0 0	0		0 0		year1
##	207	0	0 (	0 0	0	0 0	0		0 0		year1
##	208	0		0 0	0	0 0	0		0 0		year1
##	209	0		0 0	0	0 0	0		0 0		year1
##	210	0		0 1	0	0 1	0		1 0		year1
##	211	0		0 0	0	0 0	0		1 0		year1
##	212	0		1 1	1	1 0	0		0 0		year1
##	213	0		0 0	0	0 0	0		0 0		year1
##	214	0		0 0	0	1 0	0		1 0		l year1
##	215	0		0 0	0	0 0	0		0 0		year1
##	216	0		0 0	0	0 0	0		0 0		year1
##	217	0		0 0	0	0 0	0		0 0		year1
##	218	0		0 0	0	0 0	0		0 0		year1
##	219	0		1 1	0	1 0	0		0 0		year1
##	220	1		0 0	0	0 0	0		0 0		year1
##	221	0		1 1	0	0 0	0		0 0		year1
##	222	1		0 1	1	0 1	0		0 0		year1
##	223	0		0 0	1	1 0	1		1 0		year1
##	224	0		0 0	1	1 1	1		0 0		year1
##	225	0		0 0	0	0 0	0		1 0		year1
##	226	0		0 0	0	0 0	0		0 0		year1
##	227	0		0 0	0	0 0	0		0 0		year1
##	228	0	0 (	0 0	0	0 0	0		0 0		year1
##	229	0	0 (	0 0	0	0 0	0		0 0		year1
##	230	0	0 (	0 0	1	0 0	1		1 0		year1
##	231	0	0 :	1 0	0	0 0	0		0 0		year1
##	232	0	0 (	0 1	1	1 1	1	1	1 1	1 (	year1
##	233	0	0 (	0 0	0	0 0	1	1	0 0	0 (	year1
##	234	0	0 (	0 0	0	0 0	0	0	0 0	1 :	l year1
##	235	0	1 :	1 1	1	0 0	0	1	1 0	1 (	year1
##	236	0	0 (	0 0	1	1 0	0	0	0 1	0 :	l year1
##	237	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	238	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	239	0	0 (	0 0	0	0 1	0	0	0 0	0 (	year1
##	240	0	0 (	0 0	0	0 0	1	1	1 0	0 (	year1
##	241	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	242	0	0 (	0 0	0	0 0	1	0	0 0	0 (	year1
##	243	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	244	0	0 (	0 0	0	0 0	1	1	1 0	1 (	year1
##	245	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	246	1	1 (	0 0	1	0 0	0	1	1 0	1 :	1 year1
##	247	0	0 (	0 0	0	0 0	0	0	0 0	0 (	) year1
##	248	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##	249	0	1 (	0 0	0	1 1	1	1	1 0	0 (	year1
##	250	0	0 (	0 0	0	0 0	0	0	0 0	0 (	year1
##		year.2		year.4	year.5			year.8	year.9	-	year.1.1
##		year2	year3	year4	year5	year6	year7	year8	-	year10	year1
##	2	year2	year3	year4	year5	year6	year7	year8	year9	year10	year1
##	3	year2	year3	year4	year5	year6	year7	year8	year9	year10	year1

```
## 4
        vear2 vear3 vear4 vear5 vear6
                                             vear7
                                                     vear8
                                                            vear9
                                                                    vear10
                                                                              vear1
## 5
        year2
                       year4
               year3
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                              year1
                                                                    year10
## 6
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 7
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
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                                                                    year10
                                                                              year1
## 8
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 9
        year2
               year3
                       year4
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## 10
        year2
               year3
                       year4
                              year5
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                                             year7
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                                                            year9
                                                                    year10
                                                                              year1
## 11
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 12
        year2
                year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 13
        year2
                year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 14
               year3
                       year4
                              year5
                                             year7
                                                     year8
                                                            year9
        year2
                                      year6
                                                                    year10
                                                                              year1
## 15
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 16
               vear3
                       year4
                                             vear7
                                                     year8
        year2
                              year5
                                      year6
                                                            vear9
                                                                    year10
                                                                              year1
## 17
                       year4
                                                     year8
        year2
               year3
                              year5
                                      year6
                                             year7
                                                            year9
                                                                    year10
                                                                              year1
## 18
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 19
                year3
                       year4
                              year5
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
        year2
                                      year6
## 20
               year3
                       year4
                                             year7
                                                     year8
        year2
                              year5
                                      year6
                                                            year9
                                                                    year10
                                                                              year1
## 21
                              vear5
                                             vear7
                                                     vear8
        year2
               vear3
                       vear4
                                      vear6
                                                            vear9
                                                                    vear10
                                                                              vear1
## 22
        year2
               year3
                                             year7
                                                     year8
                                                                    year10
                       year4
                              year5
                                      year6
                                                            year9
                                                                              year1
## 23
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 24
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 25
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 26
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 27
        year2
               year3
                       year4
                              year5
                                      year6
                                             year7
                                                     year8
                                                            year9
                                                                    year10
                                                                              year1
## 28
        year2
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##	84	year2	year3	year4	year5	year6	year7	year8	year9
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          year10
## 213
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## 214
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## 237
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## 238
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## 239
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## 240
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## 241
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## 242
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## 243
          year10
## 244
          year10
## 245
          year10
## 246
          year10
## 247
          year10
## 248
          year10
## 249
          year10
## 250
          year10
```

Résumé.

```
summary(umf) # summarize
```

## unmarkedFrame Object

```
##
## 250 sites
## Maximum number of observations per site: 30
## Mean number of observations per site: 30
## Number of primary survey periods: 10
## Number of secondary survey periods: 3
## Sites with at least one detection: 195
## Tabulation of y observations:
##
     0
          1
## 6430 1070
##
## Yearly-site-level covariates:
##
        year
   year1 : 250
    year10 : 250
##
  year2 : 250
  year3 : 250
## year4 : 250
   year5 : 250
## (Other):1000
Le modèle avec paramètres tous constants.
fm <- colext(~1, ~1, ~1, ~1, umf) # fit constant param model
                                   # psi, gam (colonization), eps (extinction), det
##
## Call:
## colext(psiformula = ~1, gammaformula = ~1, epsilonformula = ~1,
##
       pformula = ~1, data = umf)
##
## Initial:
## Estimate
              SE
                     z P(>|z|)
      -0.813 0.158 -5.16 2.46e-07
##
##
## Colonization:
  Estimate
                SE
                      z P(>|z|)
##
       -1.77 0.0807 -22 2.75e-107
## Extinction:
## Estimate
               SE
                       z P(>|z|)
      -0.59 0.102 -5.79 7.04e-09
##
##
## Detection:
## Estimate
                SE
                       z P(>|z|)
##
   -0.0837 0.0562 -1.49 0.137
##
## AIC: 4972.597
```

On back-transforme l'occupancy.

```
names(fm)
## [1] "psi" "col" "ext" "det"
backTransform(fm, type = 'psi')
## Backtransformed linear combination(s) of Initial estimate(s)
##
                SE LinComb (Intercept)
## Estimate
       0.307 0.0335 -0.813
##
##
## Transformation: logistic
confint(backTransform(fm, type='psi'))
##
       0.025
                 0.975
## 0.2457313 0.3765804
backTransform(fm, type = 'col')
## Backtransformed linear combination(s) of Colonization estimate(s)
## Estimate SE LinComb (Intercept)
       0.145 0.01 -1.77
## Transformation: logistic
confint(backTransform(fm, type='col'))
       0.025
##
                 0.975
## 0.1264488 0.1656803
backTransform(fm, type = 'ext')
## Backtransformed linear combination(s) of Extinction estimate(s)
## Estimate
               SE LinComb (Intercept)
       0.357 0.0234 -0.59
##
## Transformation: logistic
confint(backTransform(fm, type='ext'))
##
       0.025
                 0.975
## 0.3121051 0.4035828
```

```
backTransform(fm, type = 'det')
## Backtransformed linear combination(s) of Detection estimate(s)
##
               SE LinComb (Intercept)
  Estimate
##
      0.479 0.014 -0.0837
##
## Transformation: logistic
confint(backTransform(fm, type='det'))
##
       0.025
                 0.975
## 0.4516614 0.5066307
Occupany conditionnelle
ranef(fm)
## , , Year1
##
##
               Mean Mode 2.5% 97.5%
    [1,] 0.05900634
##
                      0
                           0
##
    [2,] 0.05900634
                       0
                           0
                                 1
    [3,] 0.05900634
                           0
##
                       0
##
    [4,] 1.00000000
                           1
                                 1
                       1
##
    [5,] 0.05900634
                       0
                           0
                         0
##
    [6,] 0.05900634
                       0
                                 1
##
     [7,] 0.05900634
                         0
##
    [8,] 1.00000000
                           1
                                 1
                       1
                          1
##
    [9,] 1.00000000
                       1
                                 1
## [10,] 0.05900634
                       0
                         0
                                1
## [11,] 1.00000000
                         1
                       1
## [12,] 0.05900634
                           0
                       0
                                 1
## [13,] 0.05900634
                       0
                           0
                                 1
                         0
## [14,] 0.05900634
                                 1
                       0
## [15,] 0.05900634
                       0
                         0
                                 1
## [16,] 1.00000000
                       1
                           1
                                 1
## [17,] 1.00000000
                          1
                                 1
                       1
## [18,] 0.05900634
                       0
                           0
## [19,] 0.05900634
                       0
                           0
                                 1
## [20,] 1.00000000
                       1
                           1
## [21,] 0.05900634
                       0
                         0
                                 1
                         0
## [22,] 0.05900634
## [23,] 1.00000000
                           1
                                 1
                       1
##
   [24,] 0.05900634
                       0
                           0
                                 1
## [25,] 1.00000000
                         1
                       1
                                 1
## [26,] 0.05900634
                       0
                           0
                                 1
## [27,] 1.00000000
                       1
                           1
                                 1
## [28,] 1.00000000
                       1
                           1
                                 1
## [29,] 1.00000000
                       1
                           1
                                 1
## [30,] 1.00000000
                       1 1
                                 1
```

## [31,] 0.05900634

0

0

1

```
##
    [32,] 0.05900634
                           0
                                0
                                       1
##
    [33,] 1.00000000
                                1
                                       1
                           1
##
    [34,] 1.00000000
                                1
                                       1
##
    [35,] 0.05900634
                                0
                           0
                                       1
##
    [36,] 0.05900634
                           0
                                0
                                       1
##
    [37,] 0.05900634
                                0
                           0
                                       1
    [38,] 0.05900634
                                0
                           0
                                       1
    [39,] 0.05900634
##
                           0
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                                       1
##
    [40,] 0.05900634
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                                0
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##
                                0
    [41,] 0.05900634
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    [42,] 0.05900634
                           0
                                0
                                       1
##
    [43,] 1.00000000
                           1
                                1
                                       1
##
    [44,] 0.05900634
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##
                                0
    [45,] 0.05900634
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##
    [46,] 0.05900634
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                                0
                                       1
##
    [47,] 0.05900634
                           0
                                0
                                       1
##
    [48,] 1.00000000
                                1
                                       1
                           1
##
    [49,] 0.05900634
                                0
                                       1
##
    [50,] 1.00000000
                                1
                                       1
                           1
##
    [51,] 1.00000000
                           1
                                1
                                       1
##
    [52,] 0.05900634
                           0
                                0
                                       1
##
    [53,] 0.05900634
                           0
                                0
                                       1
    [54,] 1.00000000
##
                                1
                                       1
                           1
##
    [55,] 0.05900634
                                0
                           0
                                       1
##
    [56,] 1.00000000
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                                1
                                       1
    [57,] 0.05900634
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##
    [58,] 0.05900634
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##
    [59,] 0.05900634
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##
    [60,] 0.05900634
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##
    [61,] 0.05900634
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##
    [62,] 0.05900634
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##
    [63,] 0.05900634
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##
    [64,] 0.05900634
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##
    [65,] 0.05900634
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##
    [66,] 0.05900634
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##
    [67,] 0.05900634
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##
    [68,] 0.05900634
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##
    [69,] 0.05900634
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##
    [70,] 1.00000000
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##
    [71,] 0.05900634
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    [72,] 0.05900634
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##
    [73,] 0.05900634
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    [74,] 0.05900634
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##
    [75,] 1.00000000
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    [76,] 0.05900634
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    [77,] 0.05900634
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##
    [78,] 0.05900634
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    [79,] 0.05900634
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##
    [80,] 0.05900634
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##
    [81,] 0.05900634
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##
    [82,] 0.05900634
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##
    [83,] 1.00000000
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##
    [84,] 0.05900634
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##
    [85,] 0.05900634
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##
    [86,] 0.05900634
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    [87,] 0.05900634
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    [88,] 0.05900634
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    [89,] 0.05900634
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    [90,] 0.05900634
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    [91,] 0.05900634
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    [92,] 0.05900634
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    [93,] 0.05900634
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##
    [94,] 0.05900634
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    [95,] 1.00000000
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   [99,] 0.05900634
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## [100,] 0.05900634
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## [101,] 1.00000000
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## [102,] 1.00000000
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## [103,] 0.05900634
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## [104,] 0.05900634
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## [106,] 0.05900634
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## [107,] 0.05900634
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## [108,] 0.05900634
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## [109,] 0.05900634
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## [110,] 0.05900634
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## [111,] 0.05900634
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## [112,] 0.05900634
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## [118,] 1.00000000
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## [128,] 0.05900634
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## [129,] 1.00000000
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## [130,] 1.00000000
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## [131,] 0.05900634
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## [132,] 0.05900634
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## [133,] 0.05900634
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## [134,] 1.00000000
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## [138,] 0.05900634
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## [139,] 0.05900634
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## [140,] 0.05900634
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## [141,] 0.05900634
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## [142,] 0.05900634
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## [143,] 0.05900634
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## [145,] 0.05900634
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## [146,] 1.00000000
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## [147,] 1.00000000
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## [148,] 1.00000000
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## [149,] 0.05900634
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## [150,] 0.05900634
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## [151,] 0.05900634
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## [152,] 0.05900634
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## [153,] 1.00000000
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## [154,] 0.05900634
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## [155,] 1.00000000
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## [156,] 1.00000000
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## [157,] 0.05900634
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## [158,] 0.05900634
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## [159,] 1.00000000
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## [160,] 0.05900634
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## [161,] 0.05900634
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## [162,] 0.05900634
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## [163,] 0.05900634
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## [164,] 0.05900634
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## [165,] 1.00000000
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                               0
## [166,] 0.05900634
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## [167,] 0.05900634
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## [168,] 0.05900634
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## [169,] 0.05900634
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## [170,] 0.05900634
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## [171,] 1.00000000
                               1
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## [172,] 0.05900634
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## [173,] 0.05900634
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## [174,] 0.05900634
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## [175,] 0.05900634
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## [176,] 0.05900634
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## [177,] 0.05900634
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## [178,] 0.05900634
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                                      1
## [179,] 1.00000000
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## [180,] 0.05900634
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                                      1
## [181,] 0.05900634
                               0
                          0
                                      1
## [182,] 0.05900634
                          0
                               0
                                      1
## [183,] 1.00000000
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                                      1
## [184,] 0.05900634
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                                      1
## [185,] 0.05900634
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                                      1
## [186,] 0.05900634
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                                      1
## [187,] 1.00000000
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## [188,] 0.05900634
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## [189,] 0.05900634
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                                      1
## [190,] 1.00000000
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## [191,] 0.05900634
                               0
                                      1
## [192,] 1.00000000
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## [193,] 0.05900634
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```

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## [194,] 0.05900634
                          0
                               0
                                      1
                               0
## [195,] 0.05900634
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## [196,] 0.05900634
                               0
                                      1
## [197,] 0.05900634
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## [198,] 0.05900634
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                                      1
## [199,] 0.05900634
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                                      1
## [200,] 0.05900634
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                               0
                                      1
## [201,] 1.00000000
                          1
                               1
                                      1
## [202,] 0.05900634
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## [203,] 0.05900634
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                               0
                                      1
## [204,] 1.00000000
                               1
                                      1
                          1
## [205,] 1.00000000
                          1
                               1
                                      1
## [206,] 0.05900634
                          0
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                                      1
## [207,] 0.05900634
                               0
                                      1
## [208,] 1.0000000
                               1
                                      1
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## [209,] 0.05900634
                          0
                               0
                                      1
## [210,] 0.05900634
                               0
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## [211,] 0.05900634
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## [212,] 0.05900634
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## [213,] 0.05900634
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## [214,] 0.05900634
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## [215,] 0.05900634
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## [216,] 1.00000000
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## [217,] 1.00000000
                          1
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## [218,] 1.00000000
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## [219,] 0.05900634
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                                      1
                               0
## [220,] 0.05900634
                          0
                                      1
## [221,] 1.00000000
                               1
                          1
                                      1
                               0
## [222,] 0.05900634
                          0
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## [223,] 0.05900634
                          0
                               0
                                      1
## [224,] 0.05900634
                          0
                               0
                                      1
## [225,] 1.00000000
                               1
                          1
                                      1
## [226,] 0.05900634
                               0
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## [227,] 1.00000000
                               1
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## [228,] 1.00000000
                          1
                               1
                                      1
## [229,] 0.05900634
                          0
                               0
                                      1
## [230,] 0.05900634
                               0
                                      1
## [231,] 0.05900634
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                          0
                                      1
## [232,] 1.00000000
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## [233,] 1.00000000
                               1
                          1
                                      1
## [234,] 0.05900634
                          0
                               0
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## [235,] 0.05900634
                               0
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                                      1
## [236,] 1.00000000
                          1
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## [237,] 0.05900634
                          0
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## [238,] 0.05900634
                          0
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## [239,] 0.05900634
                               0
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## [240,] 0.05900634
                          0
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                                      1
## [241,] 0.05900634
                               0
                                      1
## [242,] 0.05900634
                          0
                               0
                                      1
## [243,] 1.00000000
                               1
                                      1
                          1
## [244,] 0.05900634
                          0
                               0
                                      1
## [245,] 0.05900634
                               0
                                      1
## [246,] 0.05900634
                          0
                               0
                                      1
## [247,] 0.05900634
                               0
                                      1
```

```
## [248,] 0.05900634
                          0
                               0
                                      1
## [249,] 0.05900634
                               0
                                      1
                          0
  [250,] 1.00000000
                                      1
##
   , , Year2
##
##
##
                Mean Mode 2.5% 97.5%
##
     [1,] 1.0000000
                         1
                              1
                                     1
##
     [2,] 0.0566466
                         0
                              0
                                     1
     [3,] 0.0566466
##
                              0
                                     1
                         0
     [4,] 1.0000000
##
                              1
                                     1
                         1
##
     [5,] 0.0566466
                         0
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     [8,] 0.0566466
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##
    [12,] 1.0000000
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## [46,] 1.0000000
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## [47,] 0.0566466
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## [100,] 1.0000000
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## [101,] 0.0566466
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## [104,] 0.0566466
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## [105,] 1.0000000
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## [107,] 0.0566466
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## [122,] 1.0000000
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## [127,] 1.0000000
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## [128,] 0.0566466
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## [129,] 1.0000000
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## [131,] 0.0566466
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## [137,] 0.0566466
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## [138,] 0.0566466
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## [142,] 0.0566466
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## [144,] 0.0566466
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## [145,] 0.0566466
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## [146,] 1.0000000
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## [147,] 0.0566466
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## [148,] 1.0000000
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## [151,] 0.0566466
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## [152,] 0.0566466
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## [153,] 1.0000000
## [154,] 1.0000000
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## [155,] 0.0566466
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## [158,] 0.0566466
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## [159,] 1.0000000
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## [160,] 0.0566466
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## [161,] 0.0566466
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## [162,] 0.0566466
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## [163,] 1.0000000
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## [164,] 0.0566466
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## [165,] 1.0000000
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## [166,] 0.0566466
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## [167,] 0.0566466
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## [168,] 1.0000000
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## [171,] 1.0000000
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## [172,] 1.0000000
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## [173,] 1.0000000
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## [174,] 0.0566466
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## [175,] 1.0000000
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## [176,] 1.0000000
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## [177,] 0.0566466
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## [178,] 0.0566466
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## [179,] 1.0000000
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## [181,] 1.0000000
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## [182,] 0.0566466
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## [183,] 1.0000000
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## [184,] 0.0566466
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## [185,] 0.0566466
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## [186,] 0.0566466
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## [187,] 1.0000000
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## [188,] 0.0566466
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## [190,] 1.0000000
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## [198,] 0.0566466
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## [199,] 0.0566466
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## [200,] 0.0566466
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## [201,] 1.0000000
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## [205,] 1.0000000
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## [206,] 0.0566466
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## [207,] 0.0566466
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## [208,] 1.0000000
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## [209,] 0.0566466
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## [210,] 0.0566466
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## [211,] 0.0566466
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## [213,] 0.0566466
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## [214,] 0.0566466
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## [215,] 1.0000000
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## [216,] 1.0000000
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## [217,] 1.0000000
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## [218,] 1.0000000
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## [219,] 1.0000000
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## [220,] 0.0566466
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## [221,] 0.0566466
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## [222,] 1.0000000
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## [227,] 0.0566466
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## [229,] 0.0566466
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## [230,] 1.0000000
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## [231,] 0.0566466
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## [232,] 0.0566466
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## [233,] 0.0566466
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## [234,] 0.0566466
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## [235,] 1.0000000
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## [236,] 0.0566466
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## [237,] 0.0566466
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## [238,] 0.0566466
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## [239,] 1.0000000
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## [241,] 1.0000000
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## [243,] 1.0000000
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## [244,] 0.0566466
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## [245,] 0.0566466
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## [246,] 0.0566466
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## [248,] 0.0566466
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## [249,] 1.0000000
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## [250,] 1.0000000
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##
##
   , , Year3
##
##
                 Mean Mode 2.5% 97.5%
##
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                                     1
##
     [2,] 0.05548877
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##
     [3,] 1.00000000
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##
     [4,] 1.00000000
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##
     [5,] 0.05548877
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##
     [6,] 1.00000000
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##
     [7,] 0.05548877
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     [8,] 1.00000000
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##
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## [225,] 1.00000000
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## [246,] 1.00000000
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## [247,] 0.05548877
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## [248,] 0.05548877
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## [249,] 1.00000000
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## [250,] 1.00000000
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     [2,] 0.05491611
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     [3,] 1.00000000
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## [204,] 0.05463175
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## [205,] 0.05463175
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## [206,] 0.05463175
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## [208,] 0.05463175
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## [209,] 0.05463175
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## [210,] 0.05463175
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## [211,] 0.05463175
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## [212,] 1.00000000
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## [213,] 0.05463175
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## [214,] 0.05463175
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## [216,] 0.05463175
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## [217,] 0.05463175
## [218,] 0.05463175
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## [219,] 0.05463175
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## [220,] 0.05463175
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## [221,] 0.05463175
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## [222,] 0.05463175
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## [224,] 0.05463175
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## [225,] 0.05463175
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## [226,] 0.05463175
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## [230,] 0.05463175
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## [232,] 0.05463175
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## [234,] 0.05463175
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## [235,] 0.05463175
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## [236,] 0.05463175
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## [238,] 0.05463175
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## [240,] 0.05463175
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## [241,] 0.05463175
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## [242,] 0.05463175
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## [244,] 0.05463175
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## [245,] 0.05463175
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## [246,] 1.00000000
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## [247,] 0.05463175
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## [248,] 0.05463175
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##
   , , Year6
##
##
##
                Mean Mode 2.5% 97.5%
##
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                         0
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##
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##
     [3,] 0.05449028
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```

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[4,] 0.05449028
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
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##
    [88,] 1.00000000
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##
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##
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##
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##
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##
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##
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##
    [97,] 0.05449028
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    [98,] 1.00000000
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##
    [99,] 0.05449028
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## [100,] 0.05449028
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   [101,] 0.05449028
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## [102,] 0.05449028
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                                       1
## [103,] 1.00000000
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## [104,] 0.05449028
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## [105,] 0.05449028
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## [106,] 0.05449028
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## [107,] 0.05449028
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## [108,] 0.05449028
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                                       1
## [109,] 1.00000000
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## [110,] 0.05449028
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## [111,] 0.05449028
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                                       1
```

```
## [112,] 0.05449028
                         0
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                                     1
## [113,] 1.00000000
                               1
                                     1
                         1
## [114,] 0.05449028
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## [115,] 0.05449028
                               0
                         0
                                     1
## [116,] 1.00000000
                         1
                               1
                                     1
## [117,] 0.05449028
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## [118,] 0.05449028
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## [119,] 0.05449028
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## [120,] 0.05449028
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## [121,] 0.05449028
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                                     1
## [122,] 1.00000000
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                                     1
## [123,] 0.05449028
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                                      1
## [124,] 0.05449028
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## [125,] 0.05449028
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## [126,] 0.05449028
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                         0
                                     1
## [127,] 1.00000000
                               1
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                         1
## [128,] 0.05449028
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## [129,] 0.05449028
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## [130,] 0.05449028
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## [131,] 0.05449028
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                                     1
## [132,] 1.00000000
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                         1
## [133,] 0.05449028
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## [134,] 1.00000000
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## [135,] 1.00000000
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## [136,] 0.05449028
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## [137,] 0.05449028
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## [138,] 0.05449028
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## [139,] 1.00000000
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## [140,] 1.00000000
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## [141,] 0.05449028
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## [142,] 0.05449028
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## [143,] 1.00000000
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                         1
## [144,] 0.05449028
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## [145,] 0.05449028
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## [146,] 0.05449028
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## [147,] 0.05449028
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## [148,] 1.00000000
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## [149,] 0.05449028
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## [150,] 0.05449028
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## [151,] 1.00000000
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## [152,] 0.05449028
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## [153,] 0.05449028
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## [154,] 0.05449028
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## [155,] 0.05449028
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                                     1
## [156,] 1.00000000
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                                     1
## [157,] 0.05449028
                               0
                          0
                                      1
## [158,] 0.05449028
                         0
                               0
                                     1
## [159,] 0.05449028
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                                      1
## [160,] 0.05449028
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## [161,] 0.05449028
                         0
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                                     1
## [162,] 0.05449028
                         0
                               0
                                     1
## [163,] 0.05449028
                               0
                                     1
## [164,] 0.05449028
                          0
                               0
                                     1
## [165,] 0.05449028
                               0
                                      1
```

##	[166,]	0.05449028	0	0	1
##	[167,]	1.00000000	1	1	1
##	[168,]	0.05449028	0	0	1
##	[169,]	1.00000000	1	1	1
##	[170,]	0.05449028	0	0	1
##	[171,]	0.05449028	0	0	1
##	[172,]	0.05449028	0	0	1
##	[173,]	0.05449028	0	0	1
##	[174,]	0.05449028	0	0	1
##	[175,]	0.05449028	0	0	1
##	[176,]	0.05449028	0	0	1
##	[177,]	1.00000000	1	1	1
##	[178,]	0.05449028	0	0	1
##	[179,]	0.05449028	0	0	1
##	[180,]	1.00000000	1	1	1
##	[181,]	0.05449028	0	0	1
##	[182,]	0.05449028	0	0	1
	-				
##	[183,]	0.05449028	0	0	1
##	[184,]	0.05449028	0	0	1
##	[185,]	0.05449028	0	0	1
##	[186,]	0.05449028	0	0	1
					1
##	[187,]	0.05449028	0	0	
##	[188,]	0.05449028	0	0	1
##	[189,]	0.05449028	0	0	1
##	[190,]	0.05449028	0	0	1
##	[191,]	0.05449028	0	0	1
			0	0	1
##	[192,]	0.05449028			
##	[193,]	1.00000000	1	1	1
##	[194,]	0.05449028	0	0	1
##	[195,]	0.05449028	0	0	1
##	[196,]	0.05449028	0	0	1
	[197,]		1	1	1
##		1.00000000			
##	[198,]	0.05449028	0	0	1
##	[199,]	0.05449028	0	0	1
##	[200,]	0.05449028	0	0	1
##	[201,]	1.00000000	1	1	1
		0.05449028	0	0	1
##	[202,]		_	_	
##	[203,]	0.05449028	0	0	1
##	[204,]	0.05449028	0	0	1
##	[205,]	1.00000000	1	1	1
##	[206,]	0.05449028	0	0	1
##	[207,]	0.05449028	0	0	1
##	[208,]	0.05449028	0	0	1
##	[209,]	0.05449028	0	0	1
##	[210,]	1.00000000	1	1	1
##	[211,]	0.05449028	0	0	1
##	[212,]	1.00000000	1	1	1
##	[213,]	0.05449028	0	0	1
##	[214,]	0.05449028	0	0	1
##	[215,]	0.05449028	0	0	1
##	[216,]	0.05449028	0	0	1
##	[217,]	0.05449028	0	0	1
##	[218,]	0.05449028	0	0	1
##	[219,]	0.05449028	0	0	1

```
## [220,] 1.00000000
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## [221,] 0.05449028
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## [222,] 1.00000000
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## [223,] 0.05449028
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## [224,] 0.05449028
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## [225,] 0.05449028
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## [226,] 0.05449028
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## [227,] 0.05449028
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## [228,] 0.05449028
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## [229,] 0.05449028
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## [230,] 0.05449028
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## [231,] 0.05449028
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## [232,] 1.00000000
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## [233,] 0.05449028
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## [234,] 0.05449028
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## [235,] 1.00000000
                         1
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## [236,] 0.05449028
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## [237,] 0.05449028
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## [238,] 0.05449028
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## [239,] 0.05449028
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## [240,] 0.05449028
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## [241,] 0.05449028
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## [242,] 0.05449028
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## [243,] 0.05449028
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## [244,] 0.05449028
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## [245,] 0.05449028
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## [246,] 1.00000000
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## [247,] 0.05449028
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## [248,] 0.05449028
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## [249,] 0.05449028
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                                     1
## [250,] 0.05449028
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##
   , , Year7
##
##
##
                Mean Mode 2.5% 97.5%
##
     [1,] 0.05441982
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                              0
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##
     [2,] 0.05441982
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##
     [3,] 0.05441982
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##
     [4,] 0.05441982
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##
     [5,] 0.05441982
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     [6,] 0.05441982
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##
     [7,] 0.05441982
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##
     [8,] 1.00000000
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##
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    [14,] 0.05441982
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##
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                           1
##
    [85,] 0.05438472
                           0
                                0
                                       1
##
    [86,] 1.00000000
                                1
                                       1
                           1
##
    [87,] 0.05438472
                           0
                                0
                                       1
##
    [88,] 1.00000000
                                1
                                       1
                           1
##
    [89,] 1.00000000
```

## [90,] 0.05438472 0 0 ## [91,] 0.05438472 0 0 ## [92,] 0.05438472 0 0 ## [93,] 1.00000000 1 1 ## [94,] 0.05438472 0 0 ## [95,] 0.05438472 0 0 ## [96,] 0.05438472 0 0 ## [97,] 0.05438472 0 0 ## [98,] 0.05438472 0 0 ## [99,] 1.0000000 1 1 ## [100,] 0.05438472 0 0 ## [101,] 0.05438472 0 0 ## [102,] 1.0000000 1 1 ## [103,] 1.0000000 1 1 ## [104,] 0.05438472 0 0 ## [105,] 0.05438472 0 0 ## [106,] 0.05438472 0 0 ## [107,] 0.05438472 0 0 ## [108,] 0.05438472 0 0 ## [109,] 1.0000000 1 1 ## [110,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [113,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [113,] 0.05438472 0 0 ## [114,] 0.05438472 0 0 ## [115,] 1.0000000 1 1 ## [116,] 1.0000000 1 1 ## [116,] 1.0000000 1 1 ## [117,] 0.05438472 0 0 ## [118,] 0.05438472 0 0 ## [119,] 0.05438472 0 0 ## [119,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [120,] 0.05438472 0 0 ## [121,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [133,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.0						
## [92,] 0.05438472 0 0 ## [93,] 1.00000000 1 1 ## [94,] 0.05438472 0 0 ## [95,] 0.05438472 0 0 ## [96,] 0.05438472 0 0 ## [97,] 0.05438472 0 0 ## [98,] 0.05438472 0 0 ## [99,] 1.00000000 1 1 ## [100,] 0.05438472 0 0 ## [101,] 0.05438472 0 0 ## [102,] 1.00000000 1 1 ## [103,] 1.00000000 1 1 ## [104,] 0.05438472 0 0 ## [105,] 0.05438472 0 0 ## [106,] 0.05438472 0 0 ## [107,] 0.05438472 0 0 ## [108,] 0.05438472 0 0 ## [109,] 1.0000000 1 1 ## [109,] 1.0000000 1 1 ## [110,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [113,] 0.05438472 0 0 ## [114,] 0.05438472 0 0 ## [115,] 1.0000000 1 1 ## [116,] 1.0000000 1 1 ## [116,] 1.0000000 1 1 ## [117,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [121,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.0000000 1 1 ## [128,] 1.0000000 1 1 ## [128,] 1.0000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.	##	[90,]	0.05438472	0	0	1
## [93,] 1.00000000 1 1	##	[91,]	0.05438472	0	0	1
## [94,] 0.05438472 0 0  ## [95,] 0.05438472 0 0  ## [96,] 0.05438472 0 0  ## [97,] 0.05438472 0 0  ## [98,] 0.05438472 0 0  ## [99,] 1.00000000 1 1  ## [100,] 0.05438472 0 0  ## [101,] 0.05438472 0 0  ## [103,] 1.00000000 1 1  ## [104,] 0.05438472 0 0  ## [106,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [109,] 1.0000000 1 1  ## [110,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [112,] 0.05438472 0 0  ## [113,] 0.05438472 0 0  ## [114,] 0.05438472 0 0  ## [115,] 1.0000000 1 1  ## [116,] 1.0000000 1 1  ## [117,] 0.05438472 0 0  ## [118,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.0000000 1 1  ## [130,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [133,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [135,] 0.05438472 0 0  ## [136,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 1.00000000 1 1  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 1.00000000 1 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [133,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [	##	[92,]	0.05438472	0	0	1
## [95,] 0.05438472 0 0  ## [96,] 0.05438472 0 0  ## [97,] 0.05438472 0 0  ## [98,] 0.05438472 0 0  ## [99,] 1.00000000 1 1  ## [100,] 0.05438472 0 0  ## [101,] 0.05438472 0 0  ## [103,] 1.00000000 1 1  ## [104,] 0.05438472 0 0  ## [105,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [108,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [112,] 0.05438472 0 0  ## [112,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [133,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [135,] 0.05438472 0 0  ## [136,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 1.00000000 1 1  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 1.00000000 1 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [141,] 0.05438472 0 0	##	[93,]	1.00000000	1	1	1
## [96,] 0.05438472 0 0  ## [97,] 0.05438472 0 0  ## [98,] 0.05438472 0 0  ## [99,] 1.00000000 1 1  ## [100,] 0.05438472 0 0  ## [101,] 0.05438472 0 0  ## [103,] 1.00000000 1 1  ## [104,] 0.05438472 0 0  ## [105,] 0.05438472 0 0  ## [106,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [108,] 0.05438472 0 0  ## [109,] 1.00000000 1 1  ## [109,] 1.0000000 1 1  ## [110,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [112,] 0.05438472 0 0  ## [113,] 0.05438472 0 0  ## [114,] 0.05438472 0 0  ## [115,] 1.00000000 1 1  ## [116,] 1.00000000 1 1  ## [117,] 0.05438472 0 0  ## [119,] 0.05438472 0 0  ## [120,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.00000000 1 1  ## [128,] 1.0000000 1 1  ## [128,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  #	##	[94,]	0.05438472	0	0	1
## [96,] 0.05438472 0 0  ## [97,] 0.05438472 0 0  ## [98,] 0.05438472 0 0  ## [99,] 1.00000000 1 1  ## [100,] 0.05438472 0 0  ## [101,] 0.05438472 0 0  ## [103,] 1.00000000 1 1  ## [104,] 0.05438472 0 0  ## [105,] 0.05438472 0 0  ## [106,] 0.05438472 0 0  ## [107,] 0.05438472 0 0  ## [108,] 0.05438472 0 0  ## [109,] 1.00000000 1 1  ## [109,] 1.0000000 1 1  ## [110,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [110,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [111,] 0.05438472 0 0  ## [112,] 0.05438472 0 0  ## [113,] 0.05438472 0 0  ## [114,] 0.05438472 0 0  ## [115,] 1.00000000 1 1  ## [116,] 1.00000000 1 1  ## [117,] 0.05438472 0 0  ## [119,] 0.05438472 0 0  ## [120,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.00000000 1 1  ## [128,] 1.0000000 1 1  ## [128,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  #	##	[95,]	0.05438472	0	0	1
## [97,] 0.05438472 0 0 ## [98,] 0.05438472 0 0 ## [99,] 1.00000000 1 1 ## [100,] 0.05438472 0 0 ## [101,] 0.05438472 0 0 ## [103,] 1.00000000 1 1 ## [104,] 0.05438472 0 0 ## [105,] 0.05438472 0 0 ## [106,] 0.05438472 0 0 ## [107,] 0.05438472 0 0 ## [108,] 0.05438472 0 0 ## [109,] 1.0000000 1 1 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [110,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [111,] 0.05438472 0 0 ## [112,] 0.05438472 0 0 ## [113,] 0.05438472 0 0 ## [114,] 0.05438472 0 0 ## [115,] 1.00000000 1 1 ## [116,] 1.00000000 1 1 ## [117,] 0.05438472 0 0 ## [119,] 0.05438472 0 0 ## [120,] 0.05438472 0 0 ## [121,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [127,] 1.0000000 1 1 ## [128,] 1.0000000 1 1 ## [129,] 1.0000000 1 1 ## [129,] 1.0000000 1 1 ## [131,] 0.05438472 0 0 ## [129,] 1.0000000 1 1 ## [131,] 0.05438472 0 0 ## [129,] 1.0000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 0 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 0 ## [131,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0 ## [132,] 0.05438472 0 0	##		0.05438472	0	0	1
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## [116,] 1.00000000 1 1	##	[114,]	0.05438472	0	0	1
## [117,] 0.05438472 0 0  ## [118,] 0.05438472 0 0  ## [119,] 0.05438472 0 0  ## [120,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.00000000 1 1  ## [129,] 1.00000000 1 1  ## [130,] 1.00000000 1 1  ## [131,] 0.05438472 0 0  ## [133,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [135,] 0.05438472 0 0  ## [136,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0	##	[115,]	1.00000000	1	1	1
## [118,] 0.05438472 0 0  ## [119,] 0.05438472 0 0  ## [120,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.00000000 1 1  ## [128,] 1.00000000 1 1  ## [130,] 1.0000000 1 1  ## [131,] 0.05438472 0 0  ## [133,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [135,] 0.05438472 0 0  ## [136,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [130,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [131,] 0.05438472 0 0  ## [132,] 0.05438472 0 0  ## [133,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [141,] 0.05438472 0 0  ## [142,] 0.05438472 0 0	##	[116,]	1.00000000	1	1	1
## [119,] 0.05438472 0 0  ## [120,] 0.05438472 0 0  ## [121,] 0.05438472 0 0  ## [122,] 0.05438472 0 0  ## [123,] 0.05438472 0 0  ## [124,] 0.05438472 0 0  ## [125,] 0.05438472 0 0  ## [126,] 0.05438472 0 0  ## [127,] 1.00000000 1 1  ## [129,] 1.00000000 1 1  ## [130,] 1.00000000 1 1  ## [131,] 0.05438472 0 0  ## [132,] 1.00000000 1 1  ## [134,] 0.05438472 0 0  ## [134,] 0.05438472 0 0  ## [135,] 0.05438472 0 0  ## [136,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [137,] 0.05438472 0 0  ## [138,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [139,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0  ## [140,] 0.05438472 0 0	##	[117,]	0.05438472	0	0	1
## [120,] 0.05438472 0 0 ## [121,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[118,]	0.05438472	0	0	1
## [121,] 0.05438472 0 0 ## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[119,]	0.05438472	0	0	1
## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [129,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [133,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[120,]	0.05438472	0	0	1
## [122,] 0.05438472 0 0 ## [123,] 0.05438472 0 0 ## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [129,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [133,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[121,]	0.05438472	0	0	1
## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[122,]	0.05438472	0	0	1
## [124,] 0.05438472 0 0 ## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.0000000 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##	[123,]	0.05438472	0	0	1
## [125,] 0.05438472 0 0 ## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [139,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##			0	0	1
## [126,] 0.05438472 0 0 ## [127,] 1.00000000 1 1 ## [128,] 1.00000000 1 1 ## [129,] 1.00000000 1 1 ## [130,] 1.00000000 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0	##			0	0	1
## [127,] 1.00000000 1 1 1 ## [128,] 1.00000000 1 1 1 ## [129,] 1.00000000 1 1 1 ## [130,] 1.00000000 1 1 1 ## [131,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 0 ## [141,] 0.05438472 0 0 0	##			0	0	1
## [128,] 1.00000000 1 1 1 ## [129,] 1.00000000 1 1 1 ## [130,] 1.00000000 1 1 1 ## [131,] 0.05438472 0 0 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 0 ## [142,] 0.05438472 0 0						1
## [129,] 1.00000000 1 1 1 ## [130,] 1.00000000 1 1 1 ## [131,] 0.05438472 0 0 ## [132,] 1.00000000 1 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0		[128.]				1
## [130,] 1.00000000 1 1 0 1						1
## [131,] 0.05438472 0 0 0 ## [132,] 1.00000000 1 1 1 ## [133,] 0.05438472 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 0 ## [142,] 0.05438472 0 0						1
## [132,] 1.00000000 1 1 1 ## [133,] 0.05438472 0 0 0 ## [134,] 0.05438472 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
## [133,] 0.05438472 0 0 0 ## [134,] 0.05438472 0 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
## [134,] 0.05438472 0 0 0 ## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [149,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						
## [135,] 0.05438472 0 0 ## [136,] 0.05438472 0 0 ## [137,] 0.05438472 0 0 ## [138,] 0.05438472 0 0 ## [139,] 0.05438472 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
## [136,] 0.05438472 0 0						1
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## [139,] 0.05438472 0 0 0 ## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
## [140,] 0.05438472 0 0 ## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
## [141,] 0.05438472 0 0 ## [142,] 0.05438472 0 0						1
<b>##</b> [142,] 0.05438472 0 0						1
						1
<b>##</b> [143,] 0.05438472 0 0						1
	##	[143,]	0.05438472	0	0	1

##	[144,]	0.05438472	0	0	1
##	[145,]	0.05438472	0	0	1
##	[146,]	0.05438472	0	0	1
##	[147,]	0.05438472	0	0	1
##	[148,]	0.05438472	0	0	1
##	[149,]	0.05438472	0	0	1
##	[150,]	0.05438472	0	0	1
##	[151,]	0.05438472	0	0	1
##	[152,]	0.05438472	0	0	1
##	[153,]	0.05438472	0	0	1
##	[154,]	1.00000000	1	1	1
##	[155,]	1.00000000	1	1	1
##	[156,]	1.00000000	1	1	1
##	[157,]	0.05438472	0	0	1
##	[158,]	1.00000000	1	1	1
##	[159,]	0.05438472	0	0	1
##	[160,]	0.05438472	0	0	1
##	[161,]	0.05438472	0	0	1
##	[162,]	0.05438472	0	0	1
##	[163,]	0.05438472	0	0	1
##	[164,]	0.05438472	0	0	1
##	[165,]	1.00000000	1	1	1
##	[166,]	0.05438472	0	0	1
##	[167,]	1.00000000	1	1	1
##	[168,]	1.00000000	1	1	1
##	[169,]	0.05438472	0	0	1
##	[170,]	0.05438472	0	0	1
##	[171,]	0.05438472	0	0	1
##	[172,]	1.0000000	1	1	1
##	[173,]	1.00000000	1	1	1
##	[174,]	1.00000000	1	1	1
##	[175,]	0.05438472	0	0	1
##	[176,]	0.05438472	0	0	1
##	[177,]	1.00000000	1	1	1
##	[178,]	0.05438472	0 1	0	1
##	[179,] [180,]	1.00000000		1	1
## ##	[181,]	0.05438472 0.05438472	0	0	1
##	[182,]	0.05438472	0	0	1
##	[183,]	1.00000000	1	1	1
##	[184,]	1.00000000	1	1	1
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##	[189,]	0.05438472	0	0	1
##	[190,]	1.00000000	1	1	1
##	[191,]	0.05438472	0	0	1
##	[192,]	0.05438472	0	0	1
##	[193,]	1.00000000	1	1	1
##	[194,]	0.05438472	0	0	1
##	[195,]	0.05438472	0	0	1
##	[196,]	0.05438472	0	0	1
##	[197,]	0.05438472	0	0	1

	<b>5400 7</b>				
##	[198,]	1.00000000	1	1	1
##	[199,]	0.05438472	0	0	1
##	[200,]	1.00000000	1	1	1
##	[201,]	1.00000000	1	1	1
##	[202,]	0.05438472	0	0	1
##	[203,]	0.05438472	0	0	1
##	[204,]	0.05438472	0	0	1
##	[205,]	0.05438472	0	0	1
##	[206,]	0.05438472	0	0	1
##	[207,]	0.05438472	0	0	1
##	[208,]	0.05438472	0	0	1
##	[209,]	0.05438472	0	0	1
##	[210,]	1.00000000	1	1	1
##	[211,]	0.05438472	0	0	1
##		1.00000000	1	1	1
	[212,]		_	_	
##	[213,]	0.05438472	0	0	1
##	[214,]	1.00000000	1	1	1
##	[215,]	0.05438472	0	0	1
##	[216,]	0.05438472	0	0	1
##	[217,]	0.05438472	0	0	1
##	[218,]	0.05438472	0	0	1
##	[219,]	1.00000000	1	1	1
##	[220,]	0.05438472	0	0	1
##	[221,]	0.05438472	0	0	1
			-	-	
##	[222,]	1.00000000	1	1	1
##	[223,]	1.00000000	1	1	1
##	[224,]	1.00000000	1	1	1
##	[225,]	0.05438472	0	0	1
##	[226,]	0.05438472	0	0	1
##	[227,]	0.05438472	0	0	1
##	[228,]	0.05438472	0	0	1
##	[229,]	0.05438472	0	0	1
##	[230,]	1.00000000	1	1	1
			_		
##	[231,]	0.05438472	0	0	1
##	[232,]	1.00000000	1	1	1
##	[233,]	0.05438472	0	0	1
##	[234,]	0.05438472	0	0	1
##	[235,]	1.00000000	1	1	1
##	[236,]		1	1	1
##		0.05438472	0	0	1
##		0.05438472	0	0	1
##		1.00000000	1	1	1
##			0	0	1
		0.05438472			
##		0.05438472	0	0	1
##		0.05438472	0	0	1
##		0.05438472	0	0	1
##		0.05438472	0	0	1
##	[245,]	0.05438472	0	0	1
##		1.00000000	1	1	1
##		0.05438472	0	0	1
##		0.05438472	0	0	1
##		1.00000000	1	1	1
##	[∠50,]	0.05438472	0	0	1
##					

```
##
  , , Year9
##
                 Mean Mode 2.5% 97.5%
##
##
     [1,] 0.05436722
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                               0
    [61,] 0.0543585
                                      1
##
    [62,] 0.0543585
                          0
                               0
                                      1
##
    [63,] 0.0543585
                         0
                               0
                                      1
##
    [64,] 1.0000000
                               1
                                      1
                         1
##
    [65,] 0.0543585
                               0
                                      1
##
    [66,] 0.0543585
                         0
                               0
                                      1
##
    [67,] 0.0543585
                               0
```

```
[68,] 0.0543585
                         0
                                     1
##
    [69,] 0.0543585
                              0
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                         0
    [70,] 0.0543585
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##
    [71,] 0.0543585
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                         0
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##
    [72,] 0.0543585
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                              0
                                     1
##
    [73,] 0.0543585
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                                     1
    [74,] 0.0543585
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    [75,] 0.0543585
##
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                              0
                                     1
    [76,] 0.0543585
##
                         0
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                                     1
##
    [77,] 0.0543585
                         0
                              0
                                     1
    [78,] 0.0543585
                              0
                                     1
##
    [79,] 0.0543585
                              0
                         0
                                     1
##
    [80,] 1.0000000
                                     1
                         1
                              1
##
    [81,] 0.0543585
                              0
##
    [82,] 0.0543585
                              0
                         0
                                     1
##
    [83,] 0.0543585
                              0
                                     1
##
    [84,] 0.0543585
                              0
                         0
                                     1
##
    [85,] 0.0543585
                                     1
##
    [86,] 0.0543585
                         0
                              0
                                     1
##
    [87,] 1.0000000
                         1
                               1
                                     1
##
    [88,] 0.0543585
                         0
                              0
                                     1
##
    [89,] 0.0543585
                                     1
##
    [90,] 0.0543585
                         0
                              0
                                     1
##
    [91,] 0.0543585
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                         0
                                     1
##
    [92,] 0.0543585
                         0
                              0
                                     1
    [93,] 0.0543585
                         0
                              0
                                     1
##
    [94,] 0.0543585
                         0
                              0
                                     1
    [95,] 0.0543585
##
                         0
                              0
                                     1
##
    [96,] 0.0543585
                              0
                                     1
   [97,] 1.0000000
                              1
                                     1
##
    [98,] 0.0543585
                              0
                                     1
##
   [99,] 0.0543585
                         0
                              0
                                     1
## [100,] 0.0543585
## [101,] 0.0543585
                         0
                              0
                                     1
## [102,] 0.0543585
                         0
                              0
                                     1
## [103,] 1.0000000
                         1
                              1
                                     1
## [104,] 0.0543585
                                     1
## [105,] 0.0543585
                              0
                         0
                                     1
## [106,] 1.0000000
                               1
                                     1
                         1
## [107,] 0.0543585
                         0
                              0
                                     1
## [108,] 0.0543585
                              0
                                     1
## [109,] 0.0543585
                         0
                              0
                                     1
## [110,] 0.0543585
                         0
                              0
                                     1
## [111,] 0.0543585
                              0
                                     1
## [112,] 0.0543585
                              0
                                     1
## [113,] 1.0000000
                               1
                                     1
## [114,] 0.0543585
                         0
                              0
                                     1
## [115,] 0.0543585
                                     1
## [116,] 0.0543585
                         0
                              0
                                     1
## [117,] 1.0000000
                         1
                               1
                                     1
## [118,] 1.0000000
                                     1
                         1
                              1
## [119,] 1.0000000
                                     1
## [120,] 0.0543585
                         0
                              0
                                     1
## [121,] 0.0543585
```

##	[122,]	0.0543585	0	0	1
##	[123,]	0.0543585	0	0	1
##	[124,]	0.0543585	0	0	1
##	[125,]	0.0543585	0	0	1
##	[126,]	0.0543585	0	0	1
##	[127,]	0.0543585	0	0	1
##	[128,]	0.0543585	0	0	1
##	[129,]	0.0543585	0	0	1
##	[130,]	0.0543585	0	0	1
##	[131,]	0.0543585	0	0	1
##	[132,]	0.0543585	0	0	1
##	[133,]	0.0543585	0	0	1
##	[134,]	0.0543585	0	0	1
##	[135,]	1.0000000	1	1	1
##	[136,]	0.0543585	0	0	1
##	[137,]	0.0543585	0	0	1
##	[138,]	1.0000000	1	1	1
## ##	[139,] [140,]	1.0000000	1 0	1 0	1 1
##	[141,]	0.0543585 0.0543585	0	0	1
##	[142,]	1.0000000	1	1	1
##	[143,]	0.0543585	0	0	1
##	[144,]	1.0000000	1	1	1
##	[145,]	0.0543585	0	0	1
##	[146,]	0.0543585	0	0	1
##	[147,]	0.0543585	0	0	1
##	[148,]	0.0543585	0	0	1
##	[149,]	0.0543585	0	0	1
##	[150,]	0.0543585	0	0	1
##	[151,]	0.0543585	0	0	1
##	[152,]	0.0543585	0	0	1
##	[153,]	0.0543585	0	0	1
##	[154,]	1.0000000	1	1	1
##	[155,]	0.0543585	0	0	1
##	[156,]	1.0000000	1	1	1
##	[157,]	1.0000000	1	1	1
##	[158,]	1.0000000	1	1	1
##	[159,]	0.0543585	0	0	1
##	[160,]	0.0543585	0	0	1
##	[161,]	0.0543585	0	0	1
##	[162,]	0.0543585	0	0	1
##	[163,]	0.0543585	0	0	1
##	[164,]	0.0543585	0	0	1
##	[165,]	0.0543585	0	0	1
##	[166,]	0.0543585	0	0	1
##	[167,]	0.0543585	0	0	1
##	[168,]	0.0543585	0	0	1
##	[169,]	0.0543585	0	0	1
##	[170,]	1.0000000	1	1	1
## ##	[171,] [172,]	0.0543585 0.0543585	0	0 0	1 1
##	[173,]	0.0543585	0	0	1
##		0.0543585	0	0	1
##	[175,]	0.0543585	0	0	1
	0,]	3.0010000	J	9	_

##	[176,]	0.0543585	0	0	1
##	[177,]	0.0543585	0	0	1
##	[178,]	0.0543585	0	0	1
##	[179,]	0.0543585	0	0	1
##	[180,]	0.0543585	0	0	1
##	[181,]	0.0543585	0	0	1
##	[182,]	0.0543585	0	0	1
##	[183,]	0.0543585	0	0	1
##	[184,]	0.0543585	0	0	1
##	[185,]	0.0543585	0	0	1
##	[186,]	0.0543585	0	0	1
##	[187,]	1.0000000	1	1	1
##	[188,]	0.0543585	0	0	1
##	[189,]	0.0543585	0	0	1
##	[190,]	0.0543585	0	0	1
##	[191,]	0.0543585	0	0	1
##	[192,]	0.0543585	0	0	1
##	[193,]	0.0543585	0	0	1
##	[194,]	0.0543585	0	0	1
## ##	[195,] [196,]	0.0543585	0	0 0	1 1
##	[197,]	0.0543585 0.0543585	0	0	1
##	[198,]	1.0000000	1	1	1
##	[199,]	0.0543585	0	0	1
##	[200,]	0.0543585	0	0	1
##	[201,]	0.0543585	0	0	1
##	[202,]	1.0000000	1	1	1
##	[203,]	0.0543585	0	0	1
##	[204,]	0.0543585	0	0	1
##	[205,]	0.0543585	0	0	1
##	[206,]	0.0543585	0	0	1
##	[207,]	0.0543585	0	0	1
##	[208,]	0.0543585	0	0	1
##	[209,]	0.0543585	0	0	1
##	[210,]	1.0000000	1	1	1
##	[211,]	0.0543585	0	0	1
##	[212,]	0.0543585	0	0	1
##	[213,]	0.0543585	0	0	1
##	[214,]	1.0000000	1	1	1
##	[215,]	0.0543585	0	0	1
##	[216,]	0.0543585	0	0	1
##	[217,]	0.0543585	0	0	1
##	[218,]	0.0543585	0	0	1
##	[219,]	0.0543585	0	0	1
##	[220,]	0.0543585	0	0	1
##	[221,]	0.0543585	0	0	1
##	[222,]	0.0543585	0	0	1
##	[223,]	0.0543585	0	0	1
##	[224,]	0.0543585	0	0	1
##	[225,]	0.0543585	0	0	1
##	[226,]	0.0543585	0	0	1
##	[227,]	0.0543585	0	0	1
##	-	0.0543585	0	0	1
##	[229,]	0.0543585	0	0	1

```
## [230,] 0.0543585
## [231,] 0.0543585
## [232,] 1.0000000
## [233,] 0.0543585
                           0
                     0
                                 1
## [234,] 1.0000000
                                 1
## [235,] 1.0000000
                           1
                                 1
## [236,] 1.0000000
                                 1
## [237,] 0.0543585
                           0
                                 1
## [238,] 0.0543585
                     0
                           0
                                 1
                          0
## [239,] 0.0543585
                                 1
## [240,] 0.0543585
                                 1
## [241,] 0.0543585
                      0
                           0
                                 1
## [242,] 0.0543585
                      0
                           0
                                 1
                          0
## [243,] 0.0543585
## [244,] 1.0000000
                      1
                          1
                                 1
## [245,] 0.0543585
                           0
## [246,] 1.0000000
                        1
                                 1
                    1
## [247,] 0.0543585
                     0 0
## [248,] 0.0543585
                                 1
## [249,] 0.0543585
                          0
                                 1
## [250,] 0.0543585
                                 1
```

On ajuste plusiers modèles.

```
fm <- colext(~1, ~1, ~1, ~1, umf)
fm1 <- colext(~1, ~year, ~1, umf)
fm2 <- colext(~1, ~1, ~year, ~1, umf)
fm3 <- colext(~1, ~year, ~1, umf)</pre>
```

On les rassemble.

Les AIC.

```
modSel(fmList)
```

```
## {psi, col(year), ext(year), det} 20 4856.93 0.00 1.0e+00 1.00 ## {psi, col(year), ext, det} 12 4887.51 30.58 2.3e-07 1.00 ## {psi, col(year), ext, det} 12 4933.79 76.86 2.0e-17 1.00 ## {psi, col, ext, det} 4 4972.60 115.67 7.6e-26 1.00
```

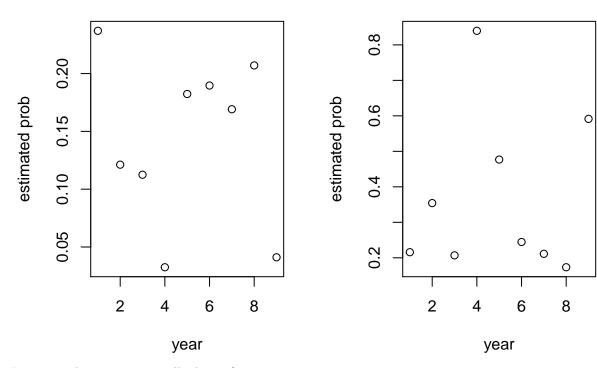
On crée un variable pour l'effet du temps, et on prédit colonisation et extinction.

```
nd <- data.frame(year = paste0("year", 1:9))
col_pred <- predict(fm3, type = 'col', newdata = nd)
ext_pred <- predict(fm3, type = 'ext', newdata = nd)</pre>
```

Visualise.

## colonization

## extinction



La même chose avec intervalle de confiance.

