# Untitled

#### À modifier

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#### R Markdown

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When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
##
        speed
                         dist
##
    Min.
           : 4.0
                    Min.
                           : 2.00
                    1st Qu.: 26.00
    1st Qu.:12.0
    Median:15.0
                    Median: 36.00
##
##
    Mean
           :15.4
                    Mean
                           : 42.98
    3rd Qu.:19.0
                    3rd Qu.: 56.00
##
    Max.
           :25.0
                    Max.
                           :120.00
```

#### Figure 1

```
## 'geom_smooth()' using formula = 'y ~ x'
```

# Nombre d'espèces uniques par latitude

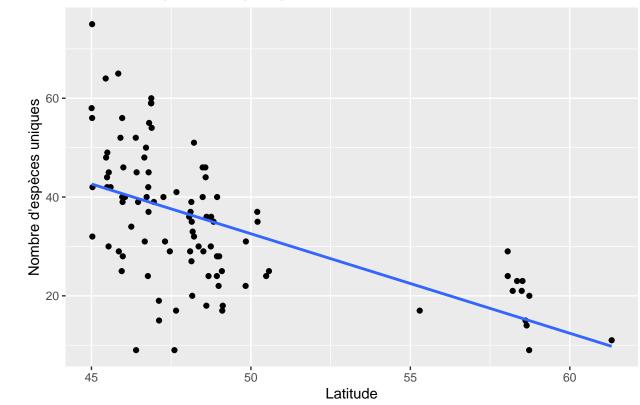
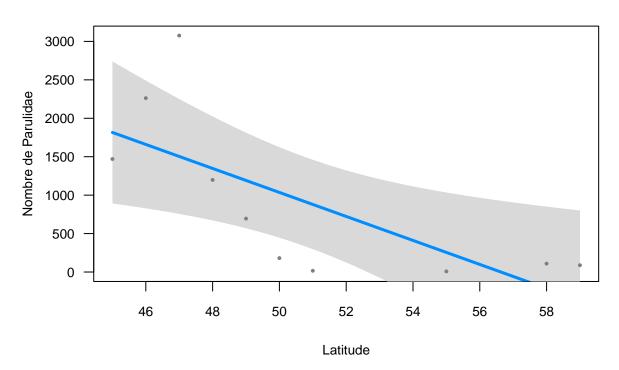


Figure 2

### Abondance de parulines en fonction de la latitude



```
## $fit
##
                  x visregFit
                                  visregLwr visregUpr
       Latitude
          45.00 438 1815.67577
## 1
                                  891.70042 2739.6511
## 2
          45.14 438 1793.82188
                                  883.27527 2704.3685
## 3
          45.28 438 1771.96798
                                  874.71568 2669.2203
## 4
          45.42 438 1750.11408
                                  866.01558 2634.2126
## 5
          45.56 438 1728.26018
                                  857.16860 2599.3518
## 6
          45.70 438 1706.40628
                                  848.16806 2564.6445
## 7
          45.84 438 1684.55239
                                  839.00697 2530.0978
## 8
          45.98 438 1662.69849
                                  829.67798 2495.7190
## 9
          46.12 438 1640.84459
                                  820.17340 2461.5158
## 10
          46.26 438 1618.99069
                                  810.48519 2427.4962
## 11
          46.40 438 1597.13679
                                  800.60494 2393.6687
##
  12
          46.54 438 1575.28290
                                  790.52385 2360.0419
##
  13
          46.68 438 1553.42900
                                  780.23275 2326.6252
          46.82 438 1531.57510
##
  14
                                  769.72208 2293.4281
##
  15
          46.96 438 1509.72120
                                  758.98189 2260.4605
                                  748.00183 2227.7328
##
  16
          47.10 438 1487.86730
## 17
          47.24 438 1466.01341
                                  736.77117 2195.2556
## 18
          47.38 438 1444.15951
                                  725.27881 2163.0402
## 19
          47.52 438 1422.30561
                                  713.51326 2131.0980
## 20
          47.66 438 1400.45171
                                  701.46270 2099.4407
## 21
          47.80 438 1378.59781
                                  689.11496 2068.0807
          47.94 438 1356.74392
                                  676.45760 2037.0302
## 22
```

```
## 23
          48.08 438 1334.89002
                                  663.47789 2006.3022
          48.22 438 1313.03612
## 24
                                  650.16287 1975.9094
          48.36 438 1291.18222
## 25
                                  636.49944 1945.8650
## 26
          48.50 438 1269.32832
                                  622.47436 1916.1823
## 27
          48.64 438 1247.47443
                                  608.07433 1886.8745
          48.78 438 1225.62053
## 28
                                  593.28611 1857.9549
## 29
          48.92 438 1203.76663
                                  578.09654 1829.4367
## 30
          49.06 438 1181.91273
                                  562.49267 1801.3328
## 31
          49.20 438 1160.05883
                                  546.46184 1773.6558
## 32
          49.34 438 1138.20494
                                  529.99177 1746.4181
##
  33
          49.48 438 1116.35104
                                  513.07072 1719.6314
## 34
          49.62 438 1094.49714
                                  495.68754 1693.3067
## 35
          49.76 438 1072.64324
                                  477.83181 1667.4547
          49.90 438 1050.78934
## 36
                                  459.49393 1642.0848
## 37
          50.04 438 1028.93545
                                  440.66528 1617.2056
## 38
          50.18 438 1007.08155
                                  421.33823 1592.8249
## 39
          50.32 438
                      985.22765
                                  401.50633 1568.9490
## 40
          50.46 438
                      963.37375
                                  381.16430 1545.5832
## 41
          50.60 438
                      941.51985
                                  360.30817 1522.7315
## 42
          50.74 438
                      919.66596
                                  338.93530 1500.3966
## 43
          50.88 438
                      897.81206
                                  317.04438 1478.5797
                      875.95816
                                  294.63553 1457.2808
## 44
          51.02 438
                      854.10426
## 45
          51.16 438
                                  271.71023 1436.4983
## 46
          51.30 438
                      832.25036
                                  248.27131 1416.2294
## 47
          51.44 438
                      810.39647
                                  224.32294 1396.4700
## 48
          51.58 438
                      788.54257
                                  199.87057 1377.2146
          51.72 438
                                  174.92083 1358.4565
## 49
                      766.68867
## 50
          51.86 438
                      744.83477
                                  149.48148 1340.1881
## 51
                      722.98087
          52.00 438
                                  123.56130 1322.4004
## 52
          52.14 438
                      701.12698
                                   97.17001 1305.0839
## 53
          52.28 438
                      679.27308
                                   70.31814 1288.2280
## 54
          52.42 438
                      657.41918
                                   43.01693 1271.8214
## 55
          52.56 438
                      635.56528
                                   15.27821 1255.8524
                                  -12.88568 1240.3085
## 56
          52.70 438
                      613.71138
## 57
          52.84 438
                      591.85749
                                  -41.46204 1225.1770
## 58
                      570.00359
                                  -70.43788 1210.4451
          52.98 438
## 59
          53.12 438
                      548.14969
                                  -99.80003 1196.0994
## 60
          53.26 438
                      526.29579
                                 -129.53522 1182.1268
          53.40 438
                      504.44189
                                 -159.63017 1168.5140
## 61
                      482.58800
## 62
          53.54 438
                                 -190.07165 1155.2476
## 63
          53.68 438
                      460.73410
                                 -220.84657 1142.3148
          53.82 438
                      438.88020
                                 -251.94201 1129.7024
## 64
## 65
          53.96 438
                      417.02630
                                 -283.34528 1117.3979
## 66
          54.10 438
                      395.17240
                                 -315.04397 1105.3888
## 67
          54.24 438
                      373.31851
                                 -347.02596 1093.6630
## 68
                                 -379.27947 1082.2087
          54.38 438
                      351.46461
## 69
          54.52 438
                      329.61071
                                 -411.79308 1071.0145
## 70
          54.66 438
                      307.75681
                                 -444.55573 1060.0694
## 71
          54.80 438
                      285.90291
                                 -477.55675 1049.3626
## 72
          54.94 438
                      264.04902
                                 -510.78584 1038.8839
## 73
                      242.19512
          55.08 438
                                 -544.23312 1028.6234
## 74
          55.22 438
                      220.34122
                                 -577.88907 1018.5715
## 75
          55.36 438
                      198.48732
                                 -611.74458 1008.7192
## 76
          55.50 438
                     176.63342 -645.79091 999.0578
```

```
## 77
          55.64 438
                      154.77953 -680.01969
                                              989.5787
## 78
          55.78 438
                      132.92563
                                 -714.42294
                                              980.2742
          55.92 438
## 79
                      111.07173
                                 -748.99302
                                              971.1365
          56.06 438
## 80
                      89.21783
                                 -783.72264
                                              962.1583
## 81
          56.20 438
                      67.36393
                                 -818.60484
                                              953.3327
## 82
                       45.51004
                                 -853.63299
          56.34 438
                                              944.6531
## 83
          56.48 438
                       23.65614
                                 -888.80077
                                              936.1130
## 84
          56.62 438
                        1.80224
                                 -924.10215
                                              927.7066
## 85
          56.76 438
                      -20.05166
                                 -959.53139
                                              919.4281
## 86
          56.90 438
                     -41.90556
                                -995.08305
                                              911.2719
## 87
          57.04 438
                     -63.75945 -1030.75190
                                              903.2330
## 88
                     -85.61335 -1066.53301
          57.18 438
                                              895.3063
## 89
          57.32 438 -107.46725 -1102.42165
                                              887.4871
## 90
          57.46 438 -129.32115 -1138.41334
                                              879.7710
## 91
          57.60 438 -151.17505 -1174.50381
                                              872.1537
## 92
          57.74 438 -173.02894 -1210.68899
                                              864.6311
## 93
          57.88 438 -194.88284 -1246.96501
                                              857.1993
## 94
          58.02 438 -216.73674 -1283.32820
                                              849.8547
## 95
          58.16 438 -238.59064 -1319.77503
                                              842.5938
## 96
          58.30 438 -260.44454 -1356.30217
                                              835.4131
## 97
          58.44 438 -282.29843 -1392.90643
                                              828.3096
## 98
          58.58 438 -304.15233 -1429.58478
                                              821.2801
                                              814.3219
## 99
          58.72 438 -326.00623 -1466.33434
          58.86 438 -347.86013 -1503.15234
## 100
                                              807.4321
## 101
          59.00 438 -369.71403 -1540.03616
                                              800.6081
##
## $res
##
      Latitude
                 x visregRes visregPos
## 1
                         1470
            45 438
                                  FALSE
## 2
            46 438
                         2262
                                   TRUE
## 3
            47 438
                         3076
                                   TRUE
## 4
            48 438
                         1198
                                  FALSE
            49 438
## 5
                          695
                                  FALSE
## 6
            50 438
                          181
                                  FALSE
## 7
            51 438
                           16
                                  FALSE
## 8
            55 438
                            8
                                  FALSE
## 9
            58 438
                          109
                                   TRUE
## 10
            59 438
                           88
                                   TRUE
##
## $meta
## $meta$x
## [1] "Latitude"
##
## $meta$y
## [1] "x"
##
## $meta$hasInteraction
## [1] FALSE
##
## $meta$yName
##
   [1] "x"
##
## $meta$trans
## function (x)
```

```
## {
## class(x) <- unique.default(c("AsIs", oldClass(x)))
## x
## }
## <bytecode: 0x000002490a8688f8>
## <environment: namespace:base>
##
## $meta$class
## [1] "lm"
##
## attr(,"class")
## [1] "visreg"
```

Figure 3

# Nombre d'espèces uniques par année

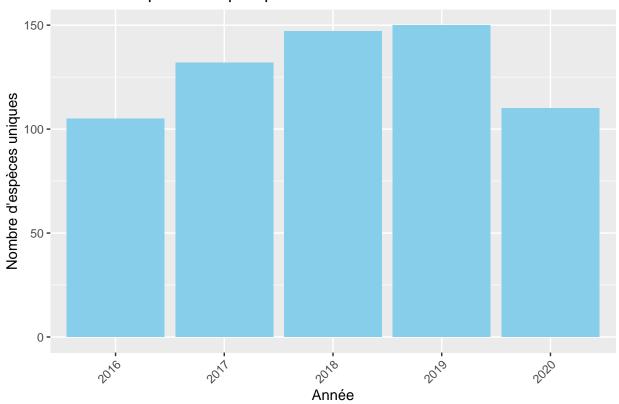
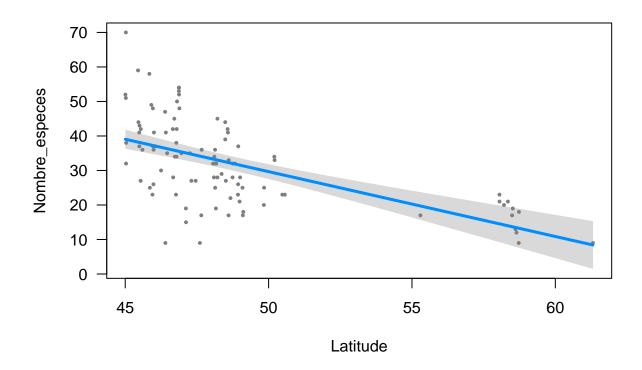


Figure 4



## NULL

## pdf ## 2