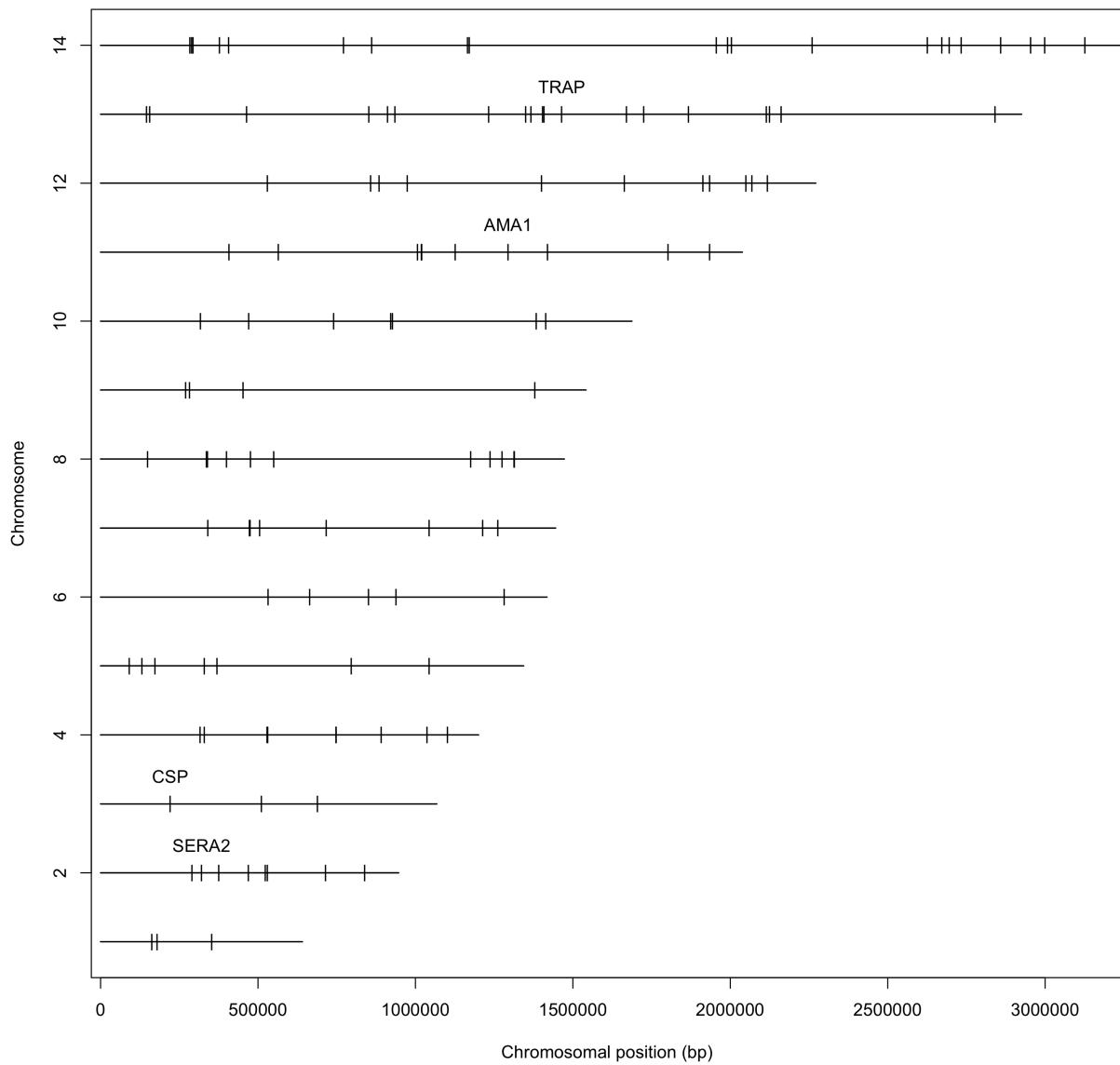
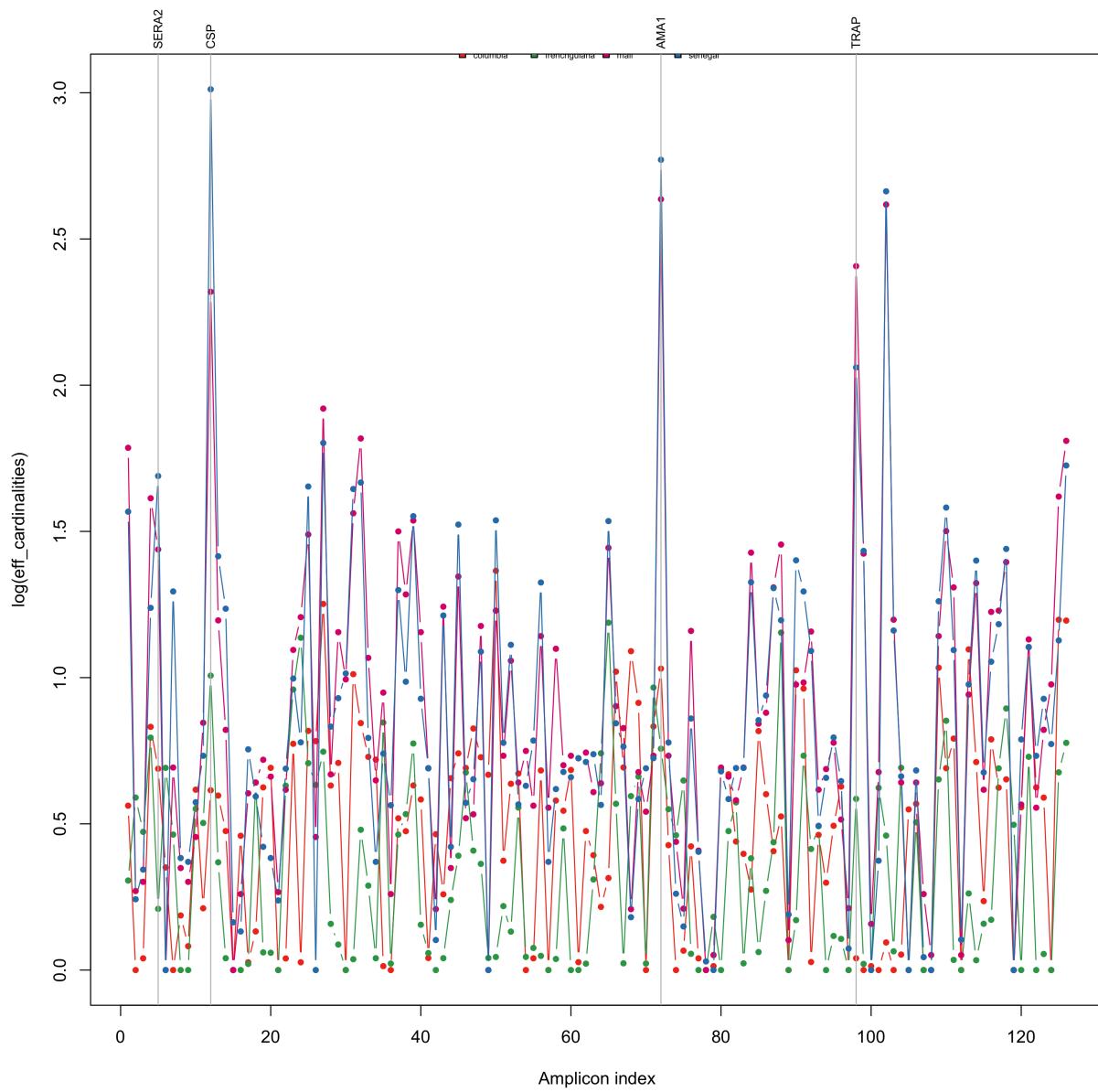
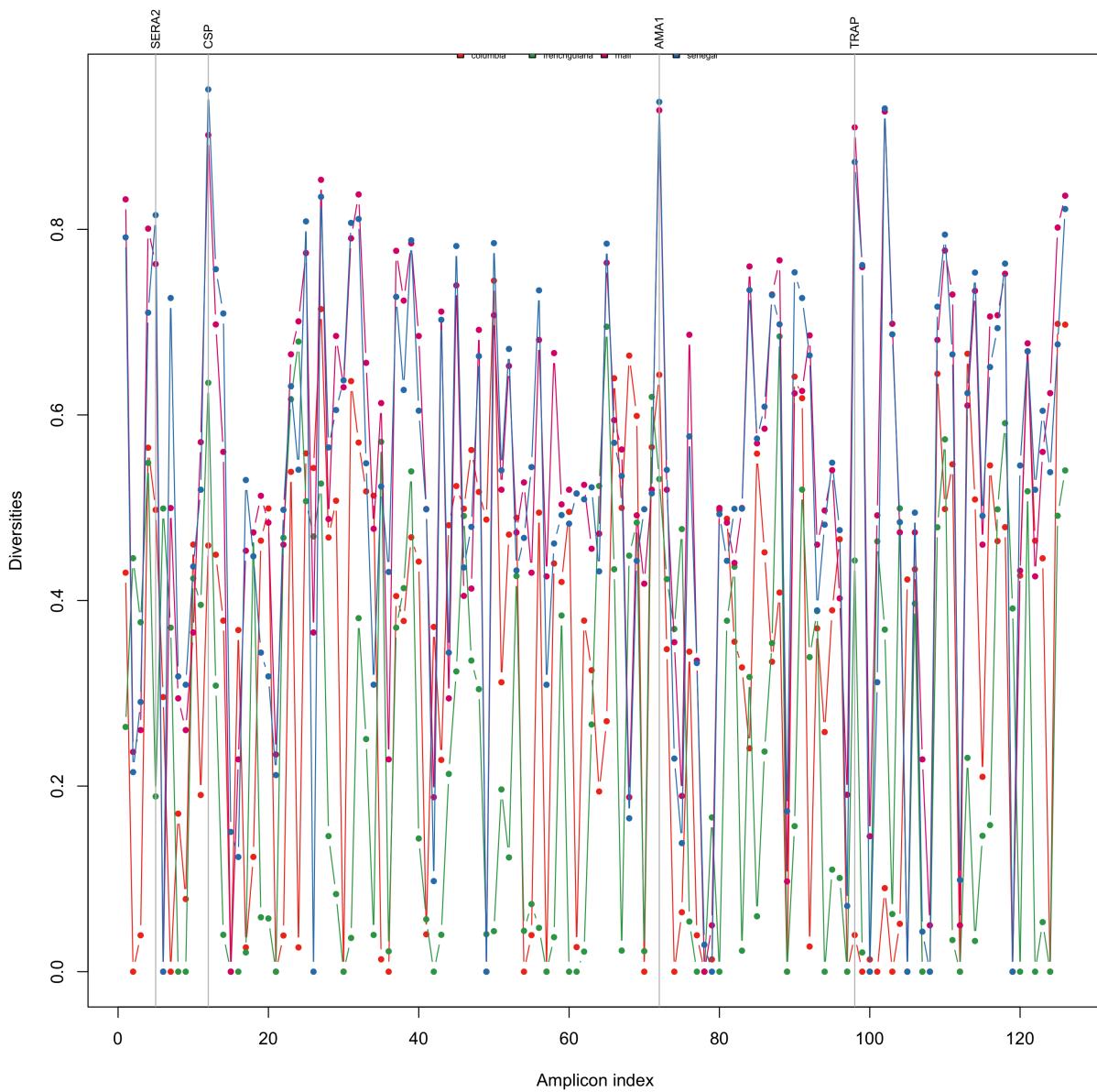
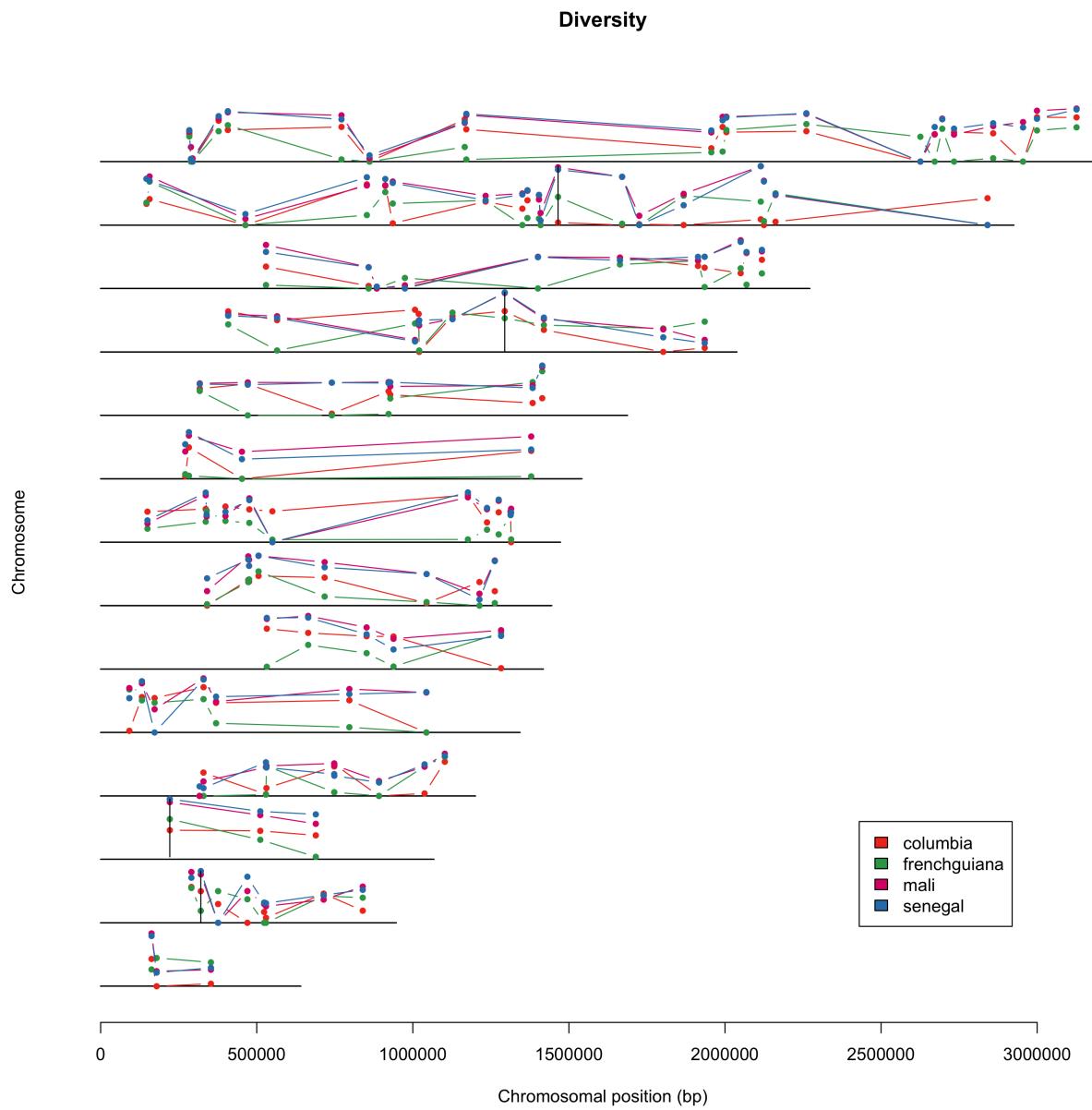


```
## [1] 1.645496
## [1] 194.1685
## [1] 2.207834
## [1] 278.1871
## CTSA (unordered) are labelled: zSERA2 zCSP zAMA1 zTRAP
```









```
## eff_cardinalities exc. CTSA:
```

| | columbia | frenchguiana | mali | senegal |
|---------|----------|--------------|-----------|-----------|
| Min. | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| 1st Qu. | 1.040847 | 1.025993 | 1.707096 | 1.552466 |
| Median | 1.658977 | 1.257575 | 2.071784 | 2.086345 |
| Mean | 1.689397 | 1.457282 | 2.586055 | 2.530902 |
| 3rd Qu. | 1.996467 | 1.772184 | 3.186969 | 3.075255 |
| Max. | 3.916691 | 3.279790 | 13.702710 | 14.337989 |

```
## eff_cardinalities inc. CTSA:
```

| | columbia | frenchguiana | mali | senegal |
|---------|----------|--------------|-----------|-----------|
| Min. | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| 1st Qu. | 1.041014 | 1.034482 | 1.724549 | 1.667473 |
| Median | 1.685487 | 1.285099 | 2.080711 | 2.111528 |
| Mean | 1.696753 | 1.473696 | 2.816963 | 2.843923 |
| 3rd Qu. | 1.996467 | 1.801669 | 3.311830 | 3.296494 |
| Max. | 3.916691 | 3.279790 | 13.954137 | 20.325287 |

Diversities exc. CTSA:

| | columbia | frenchguiana | mali | senegal |
|---------|-----------|--------------|-----------|-----------|
| Min. | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 1st Qu. | 0.0392444 | 0.0253136 | 0.4142009 | 0.3552388 |
| Median | 0.3971216 | 0.2047308 | 0.5173151 | 0.5206892 |
| Mean | 0.3268068 | 0.2410120 | 0.5075507 | 0.4947930 |
| 3rd Qu. | 0.4991151 | 0.4357220 | 0.6862219 | 0.6748099 |
| Max. | 0.7446824 | 0.6951025 | 0.9270217 | 0.9302552 |

Diversities inc. CTSA:

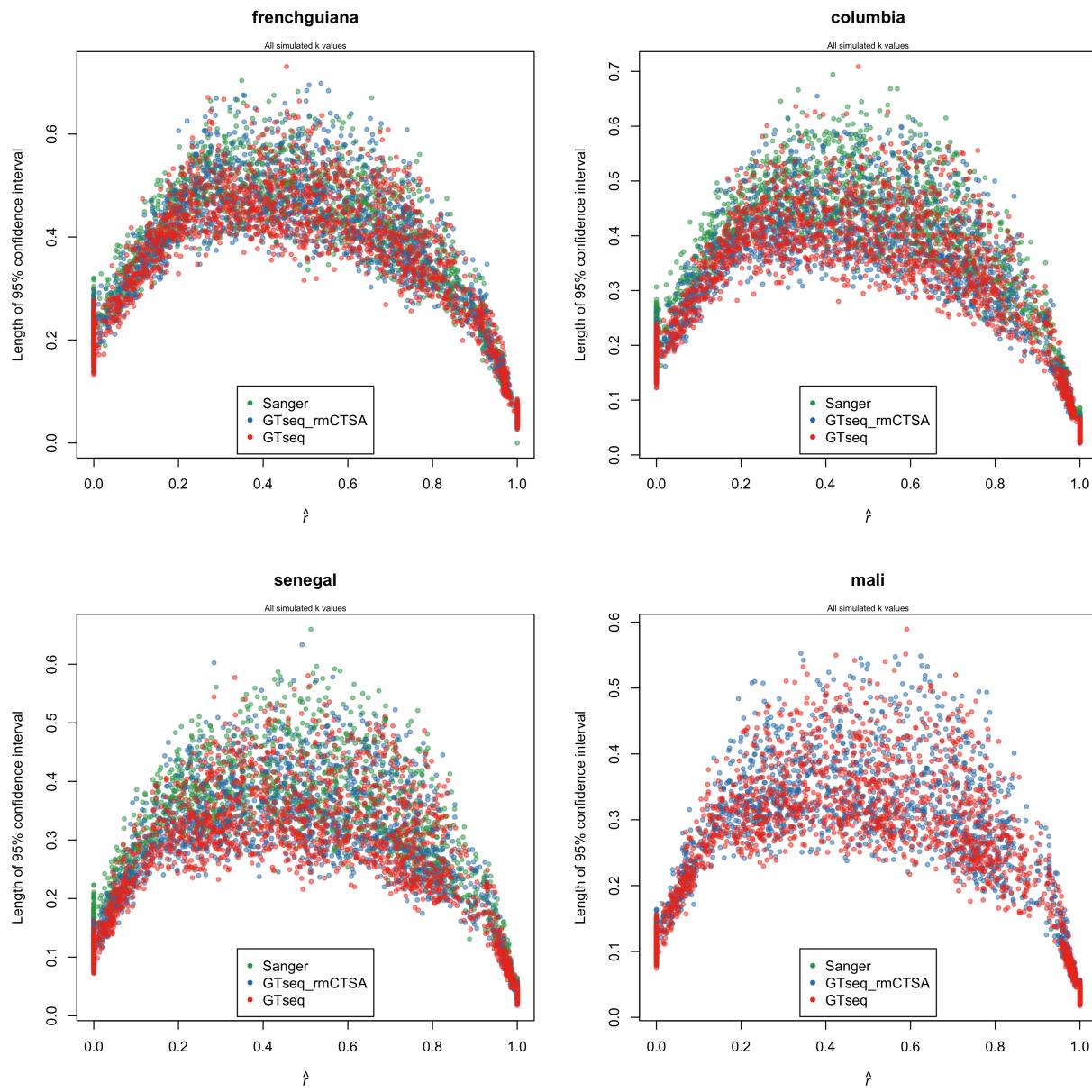
| | columbia | frenchguiana | mali | senegal |
|---------|-----------|--------------|-----------|-----------|
| Min. | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 1st Qu. | 0.0393976 | 0.0333324 | 0.4201181 | 0.3997353 |
| Median | 0.4066936 | 0.2217531 | 0.5193950 | 0.5263840 |
| Mean | 0.3294454 | 0.2476264 | 0.5192362 | 0.5074676 |
| 3rd Qu. | 0.4991151 | 0.4449570 | 0.6980519 | 0.6966370 |
| Max. | 0.7446824 | 0.6951025 | 0.9283367 | 0.9508002 |

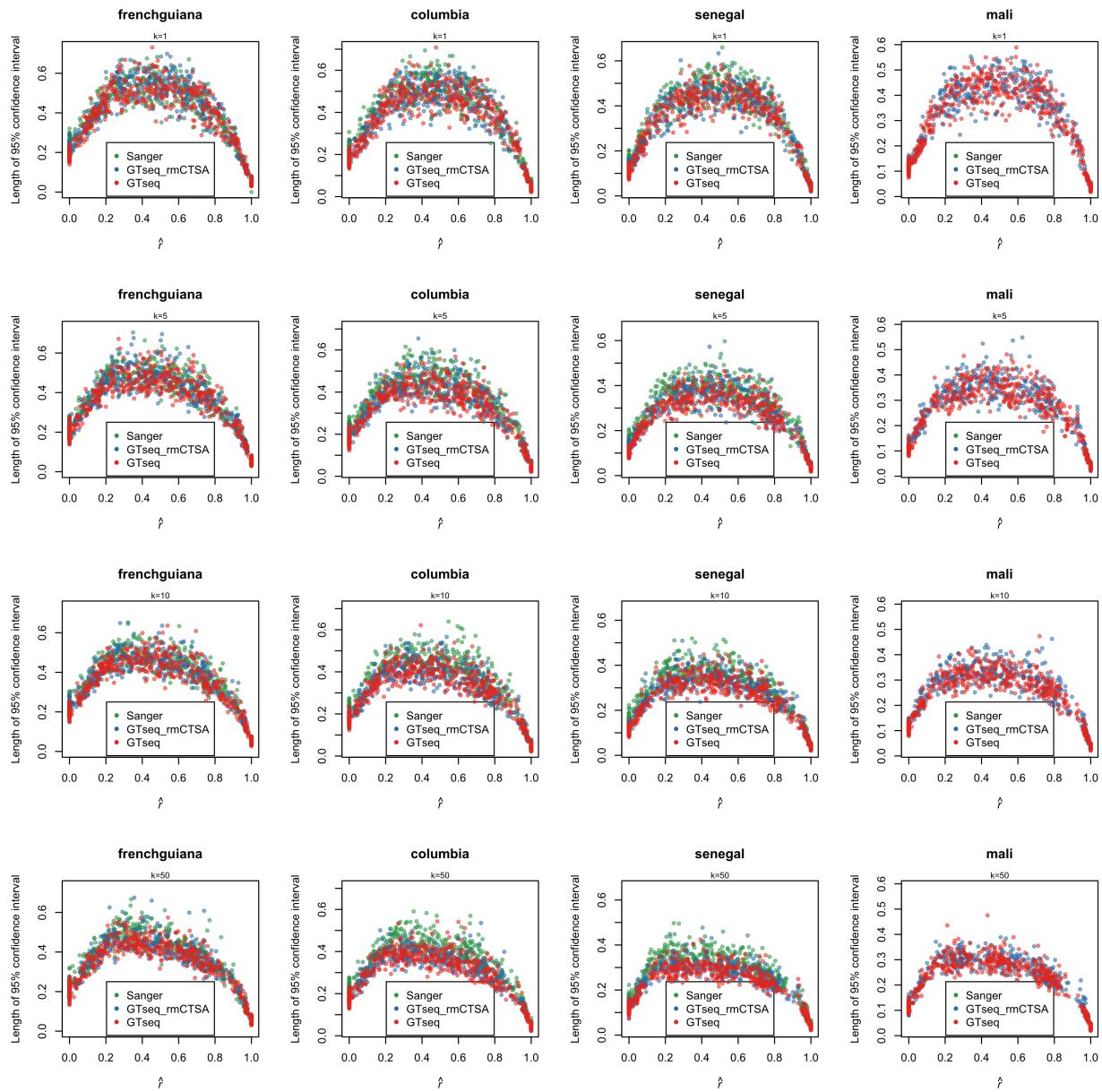
Top three:

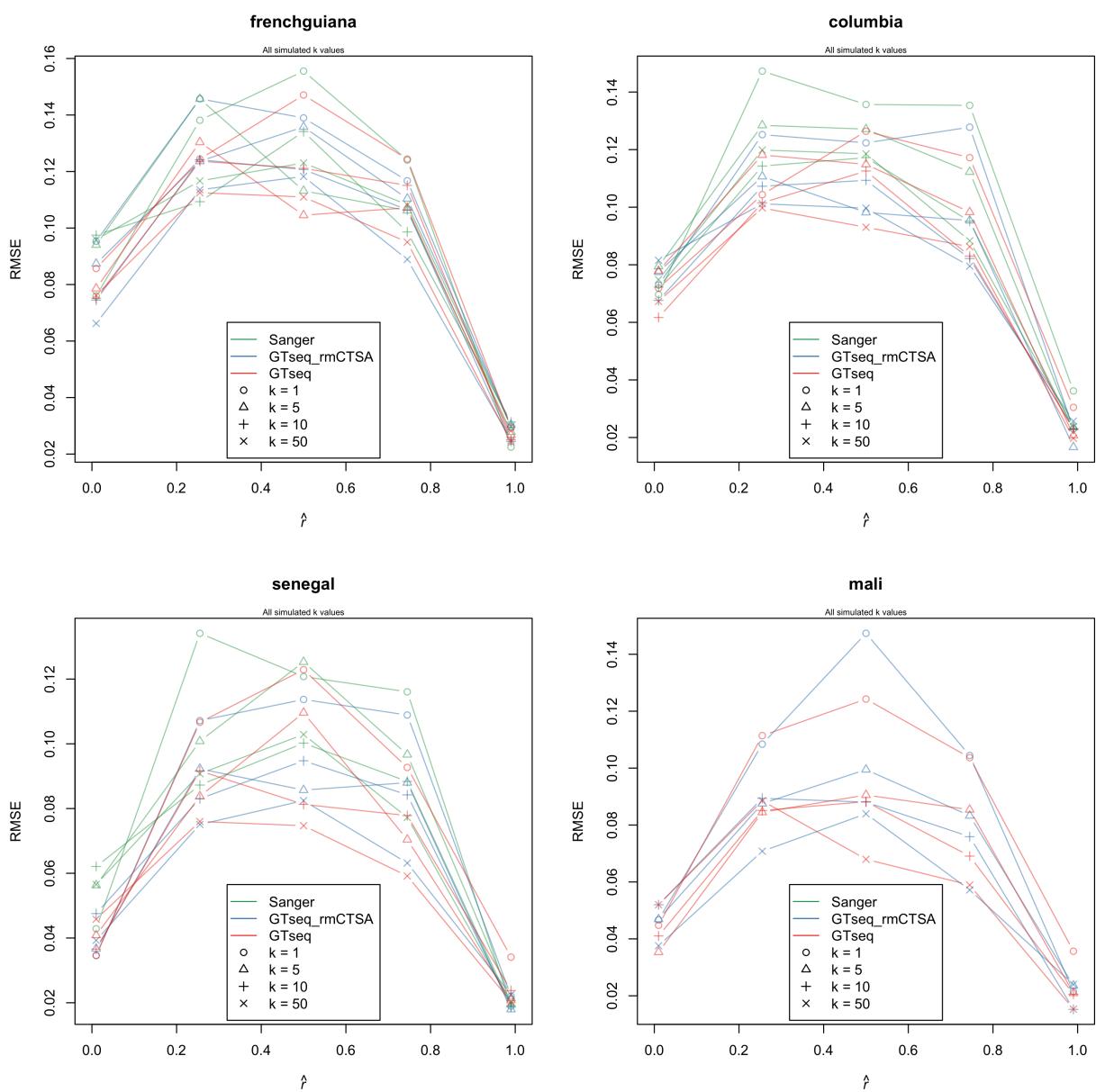
| | eff_cardinality | Diversity |
|----------------------------|-----------------|-----------|
| columbia.PF3D7_0827100 | 3.92 | 0.74 |
| columbia.P38 | 3.50 | 0.71 |
| columbia.PF3D7_1473700 | 3.31 | 0.70 |
| frenchguiana.PF3D7_1035700 | 3.28 | 0.70 |
| frenchguiana.PF3D7_1302900 | 3.17 | 0.68 |
| frenchguiana.PF3D7_0501800 | 3.12 | 0.68 |
| mali.zAMA1 | 13.95 | 0.93 |
| mali.PF3D7_1352900 | 13.70 | 0.93 |
| mali.zTRAP | 11.10 | 0.91 |
| senegal.zCSP | 20.33 | 0.95 |
| senegal.zAMA1 | 15.97 | 0.94 |
| senegal.PF3D7_1352900 | 14.34 | 0.93 |

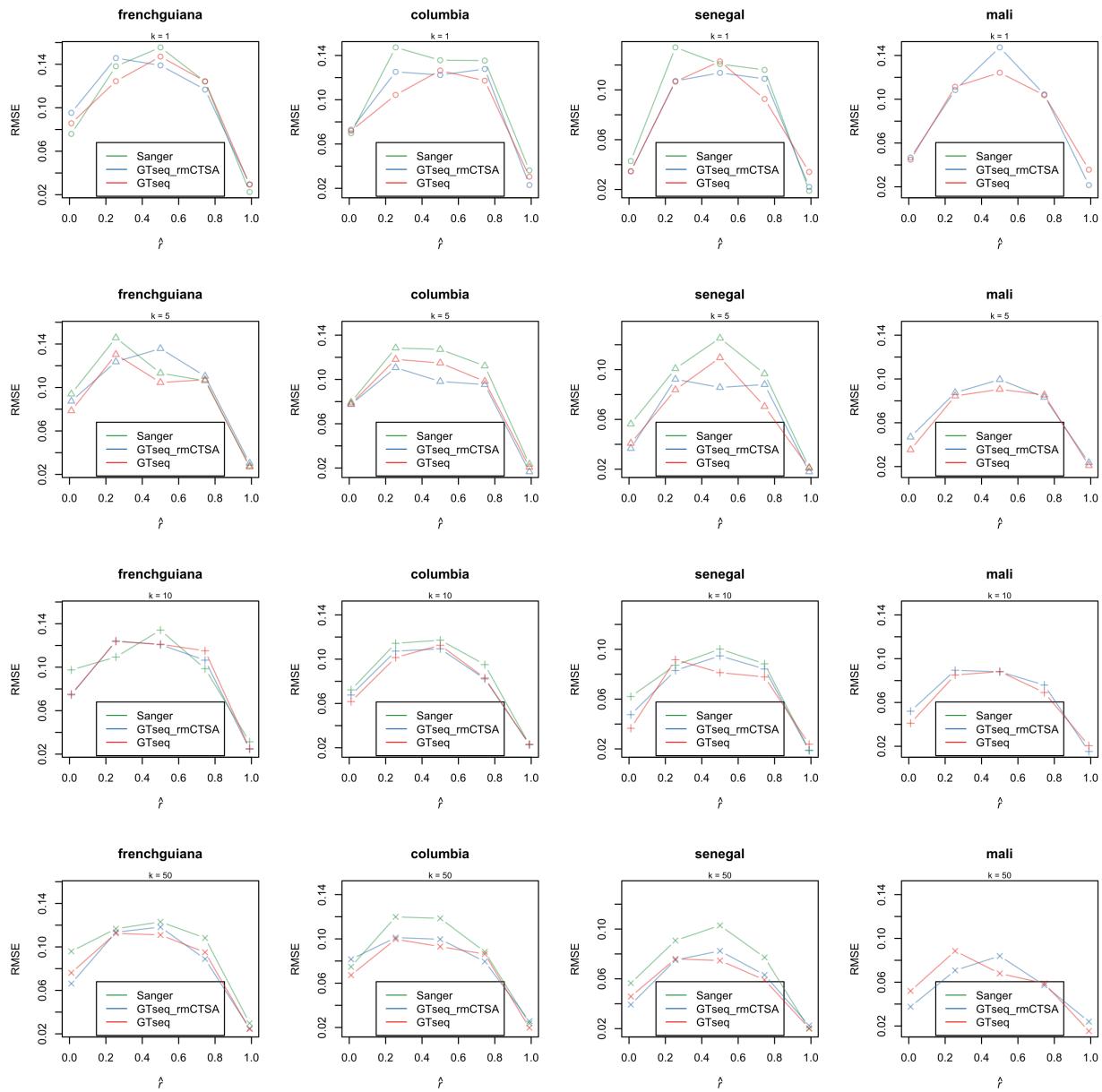
```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or directory'
```

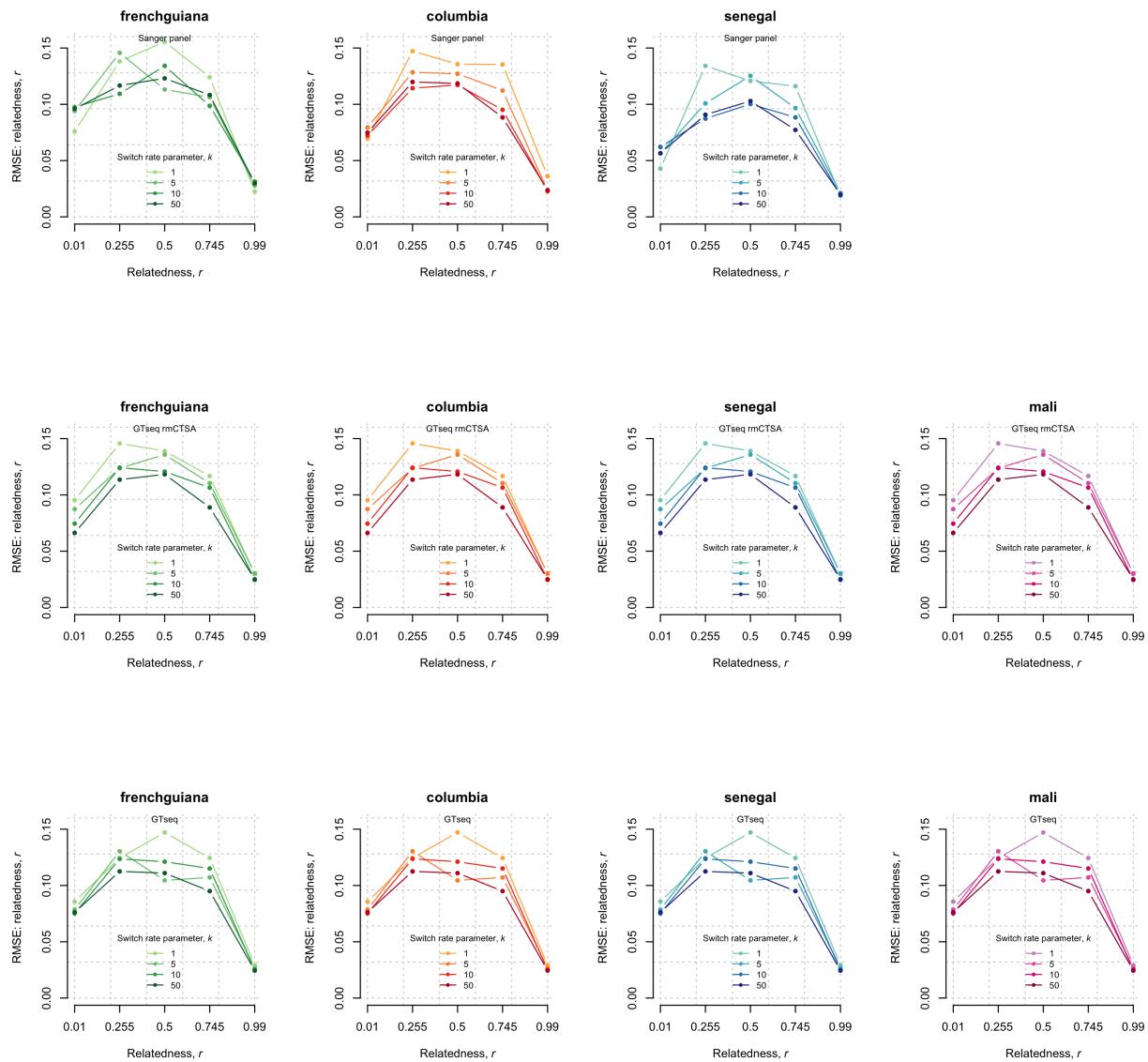
```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or directory'
```











```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../
## RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or
## directory'
```

```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../
## RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or
## directory'
```

```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../
## RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or
## directory'
```

```
## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../
## RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or
```

```

## directory'

## Warning in readChar(con, 5L, useBytes = TRUE): cannot open compressed file '../
## RData/Sanger_Amplicon_SimResults_mali.Rdata', probable reason 'No such file or
## directory'

```

