Guinea

```
## [1] "Census Females"
```

```
## # A tibble: 86 x 2
##      age  `2014`
##    <dbl>   <dbl>
##  1     0 161421
##  2     1 156097.
##  3     2 174828.
##  4     3 179276
##  5     4 183883.
##  6     5 186139
##  7     6 177897.
##  8     7 168436.
##  9     8 157237.
## 10     9 144900.
## # ... with 76 more rows
```

```
## [1] "Census Females 5-year"
```

```
## # A tibble: 18 x 2
##      age  `1996`
##    <dbl>   <dbl>
##  1     0 629099
##  2     5 545591.
##  3    10 417300
##  4    15 335618.
##  5    20 307902.
##  6    25 288558.
##  7    30 248041
##  8    35 198157.
##  9    40 156056.
## 10    45 121375.
## 11    50  96060.
## 12    55  80310.
## 13    60  72839.
## 14    65  59296
## 15    70  47005
## 16    75  62565
## 17    80     NA
## 18    85     NA
```

```
## [1] "Census Males"
```

```
## # A tibble: 86 x 2
##      age  `2014`
##    <dbl>   <dbl>
##  1     0 164792
##  2     1 160347.
##  3     2 178135.
##  4     3 183095.
##  5     4 188043.
##  6     5 190464.
```

```
##  7     6 182415.
##  8     7 173976.
##  9     8 163357.
## 10     9 150880.
## # ... with 76 more rows
```

```
## [1] "Census Males 5-year"
```

```
## # A tibble: 18 x 2
##      age  `1996`
##    <dbl>   <dbl>
##  1     0 643728
##  2     5 573860.
##  3    10 440982.
##  4    15 320036.
##  5    20 255442
##  6    25 224650.
##  7    30 197222.
##  8    35 171459.
##  9    40 147724.
## 10    45 119655.
## 11    50  95200.
## 12    55  79656.
## 13    60  69800.
## 14    65  56828.
## 15    70  40047
## 16    75  63801
## 17    80     NA
## 18    85     NA
```

Thiele log-Normal Hump Spline

```
## [1] "relative convergence (4)"
```

```
##    log_tau2_logpop    log_tau2_logpop    log_tau2_logpop    log_tau2_logpop      log_lambda_fx      log
##         4.30527796         5.23401411         4.04279299         4.80647877         6.83387909         1
##      log_lambda_tp           tp_slope        tp_params_5       tp_params_10     log_lambda_phi     log_
##         4.03471775        -0.02328644         0.26825548         0.68061057        11.34331162         1
##  log_lambda_lambda   log_lambda_delta log_lambda_epsilon
##         5.07641321         7.32494783         4.71918371
```

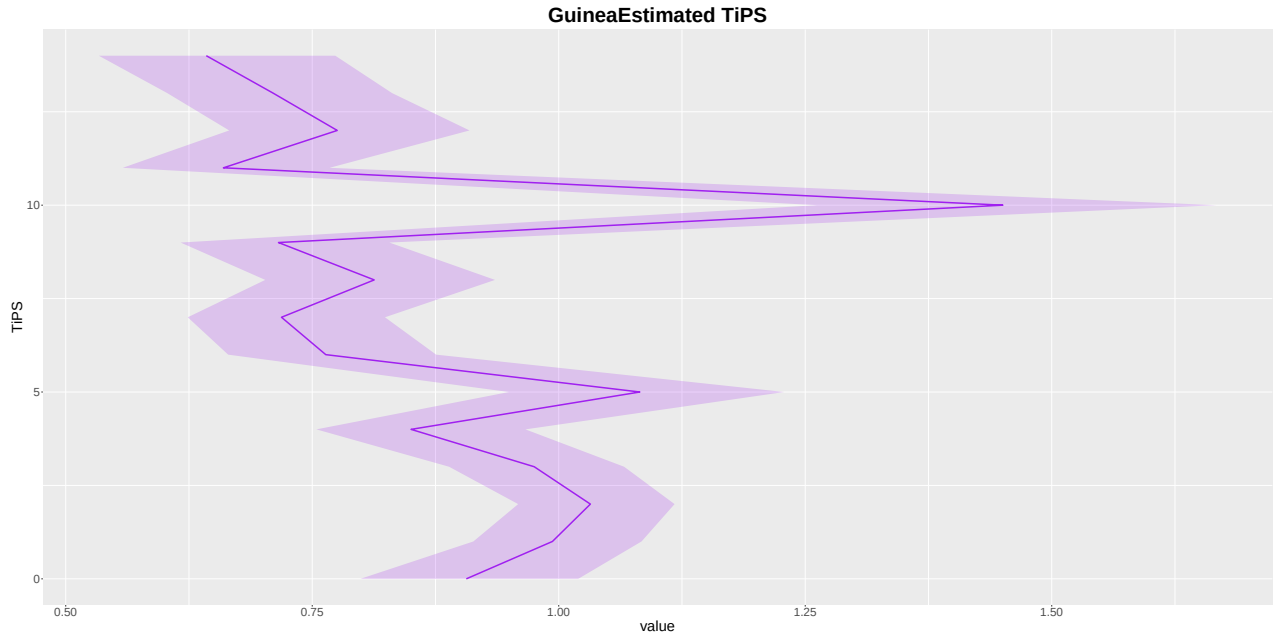

Figure 1: Estimated TiPS

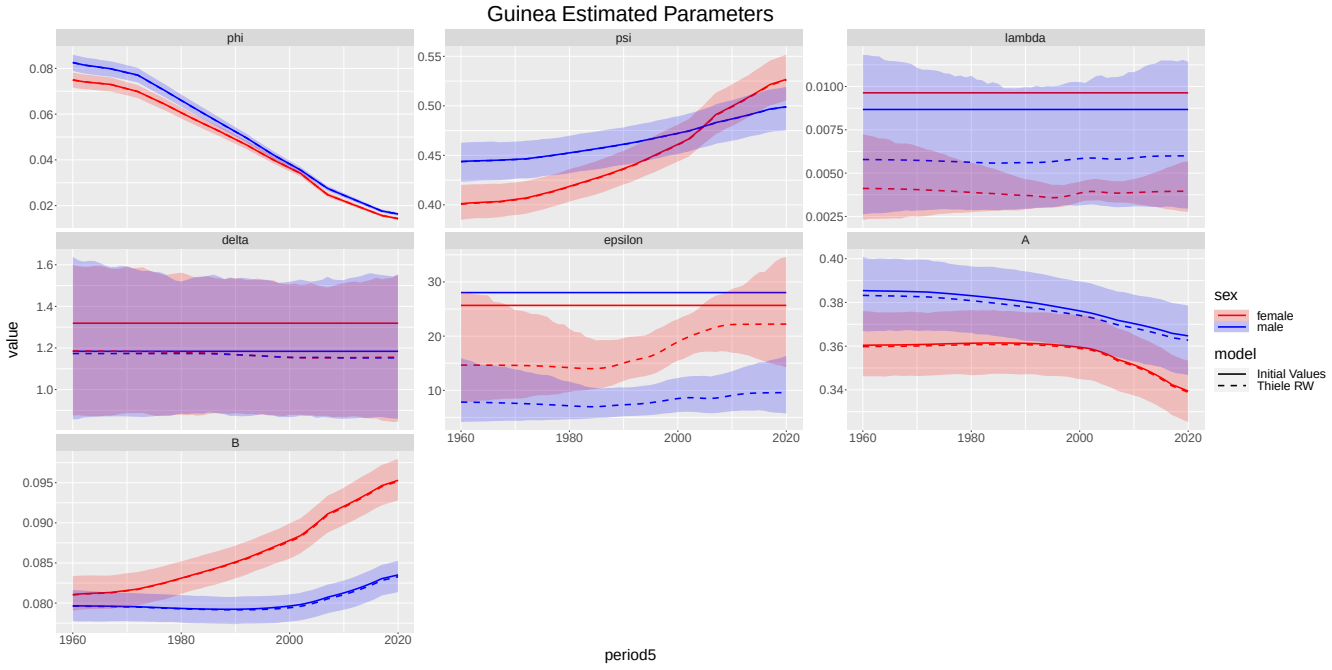

Figure 2: Estimated parameters

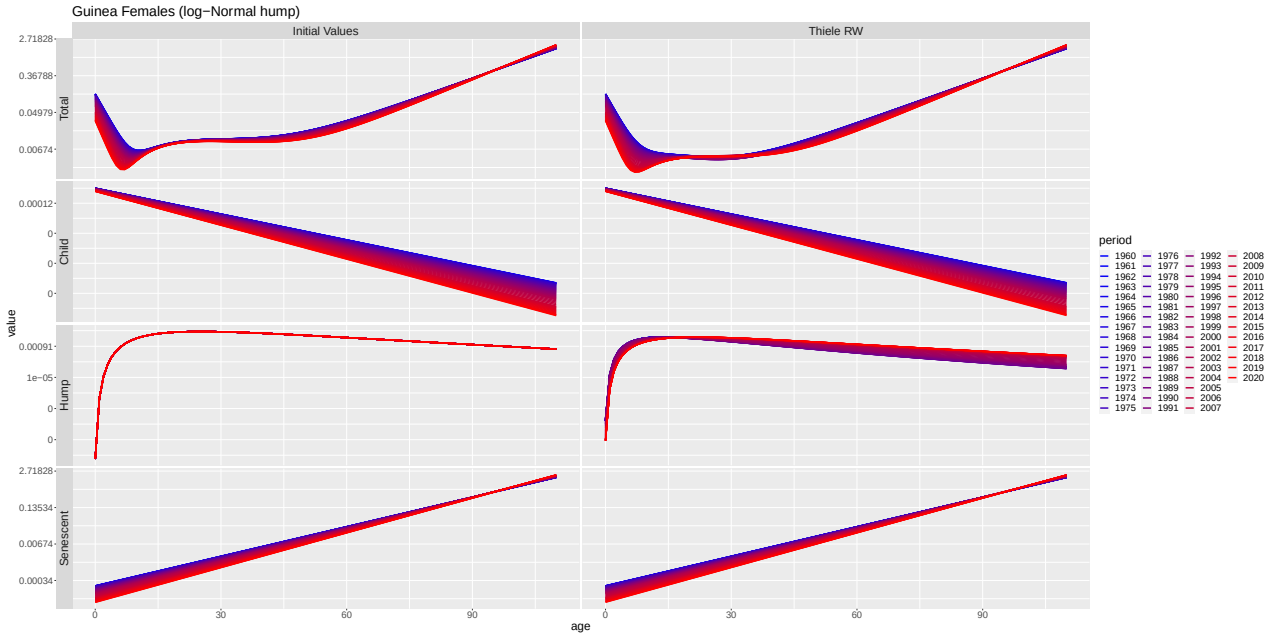

Figure 3: Thiele Decomposed

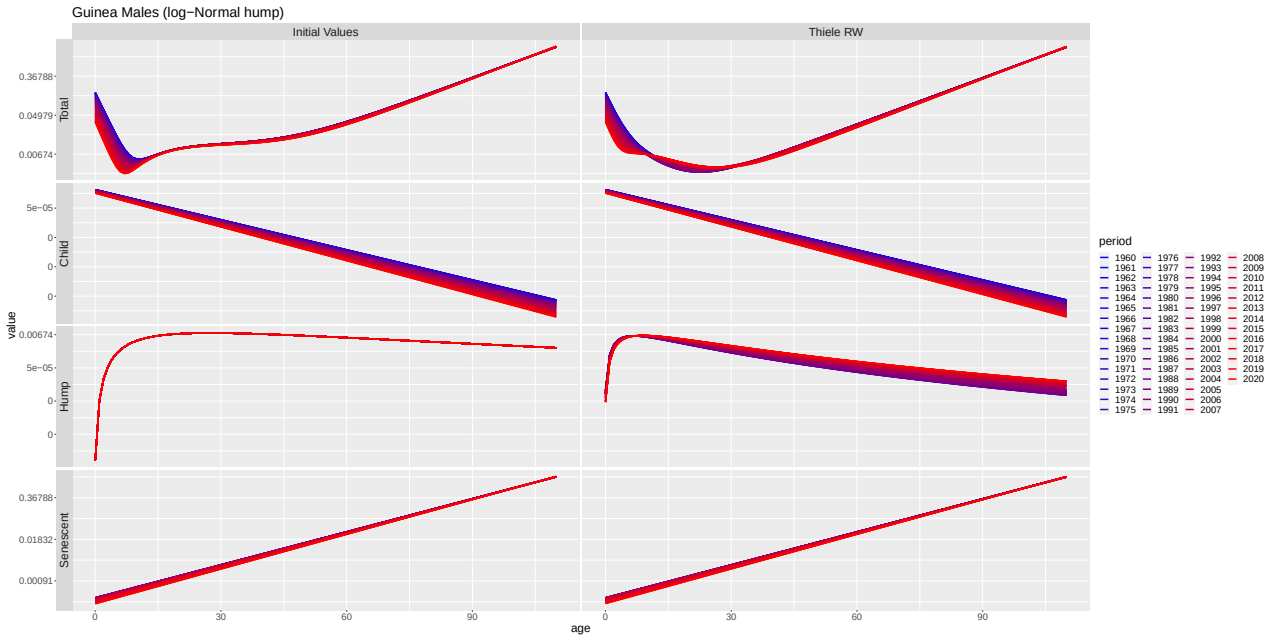

Figure 4: Thiele Decomposed

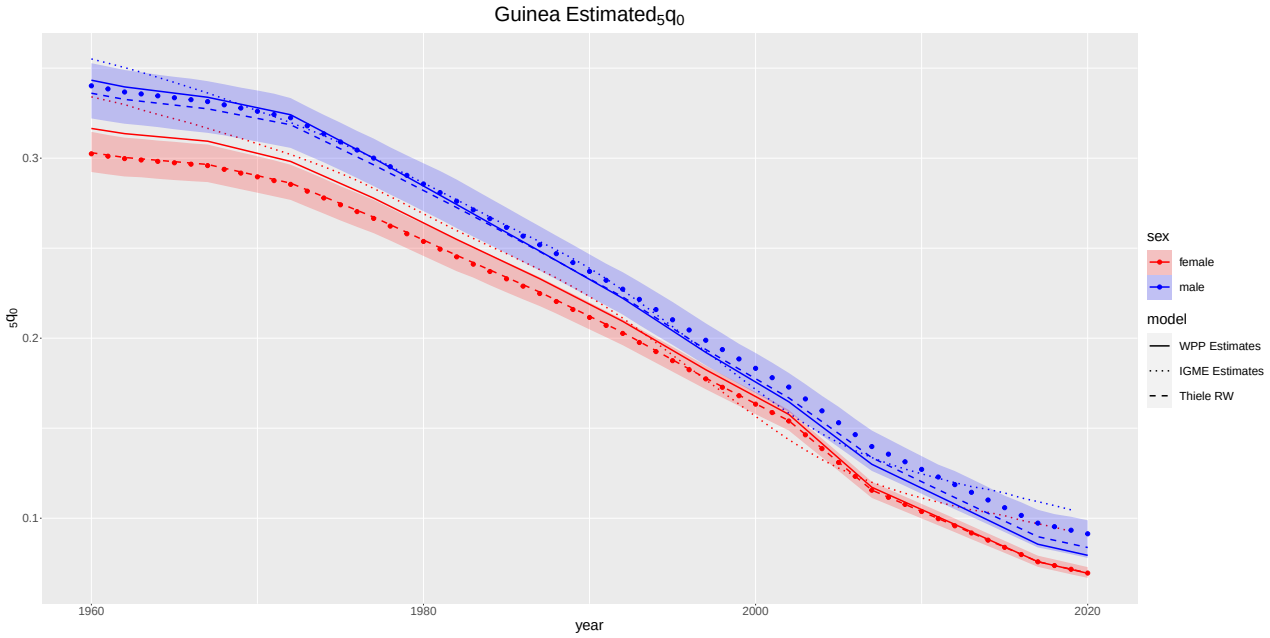

Figure 5: Estimated $_5q_0$

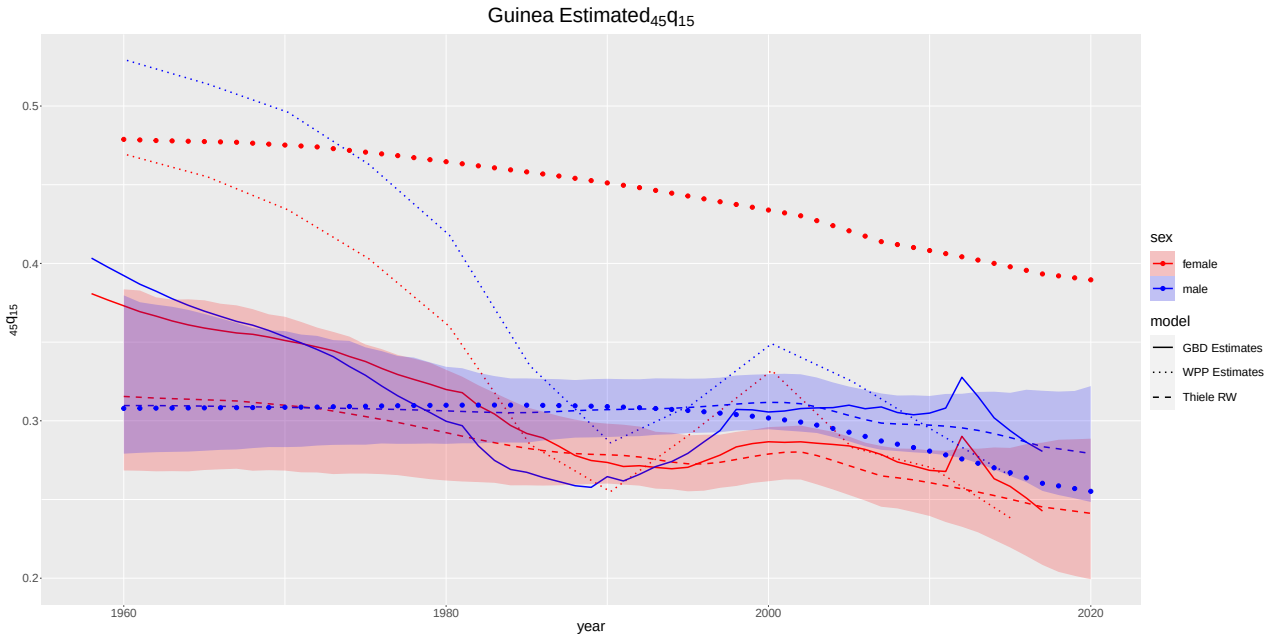

Figure 6: Estimated $_{45}q_{15}$

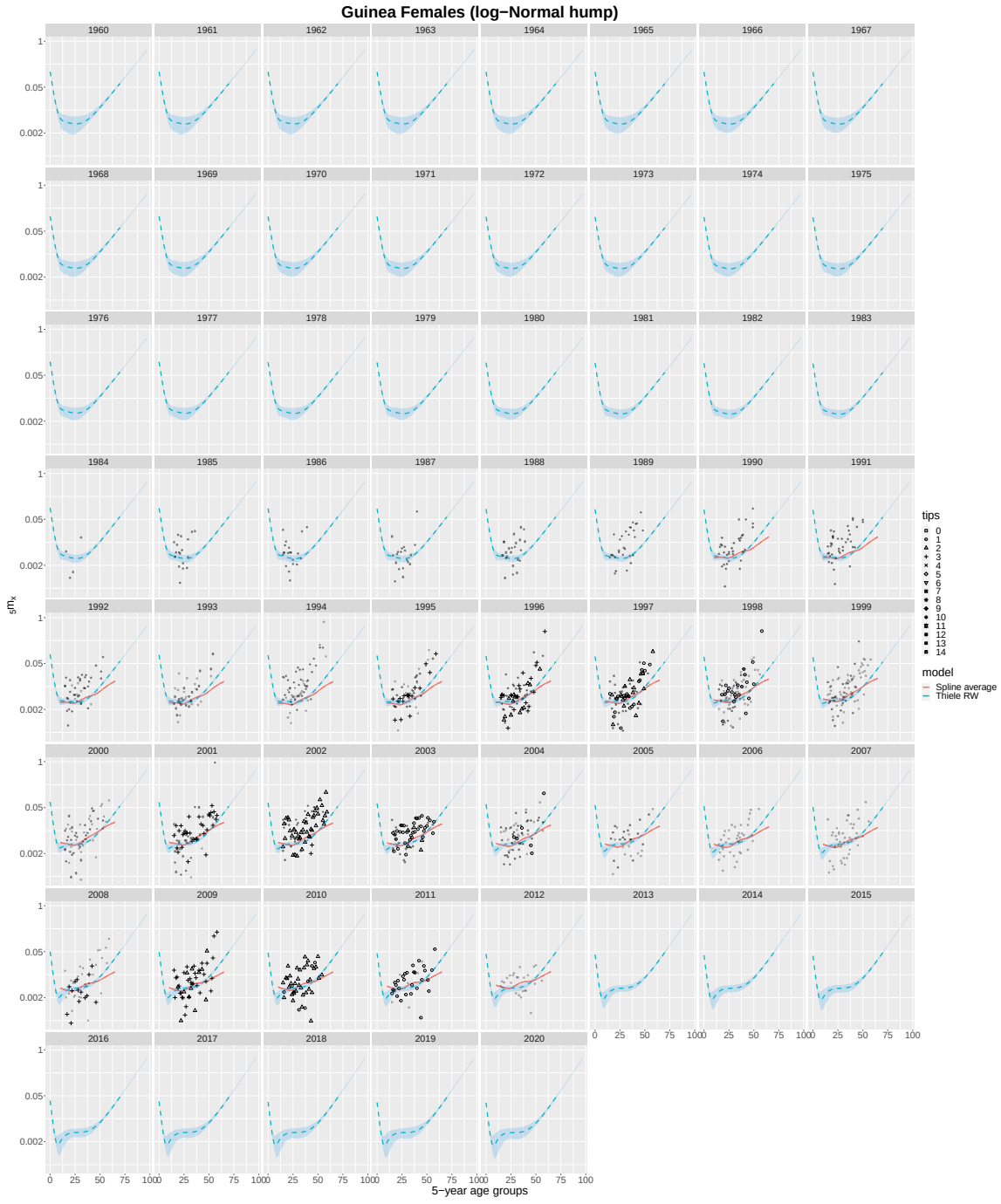

Figure 7: Mortality Schedules

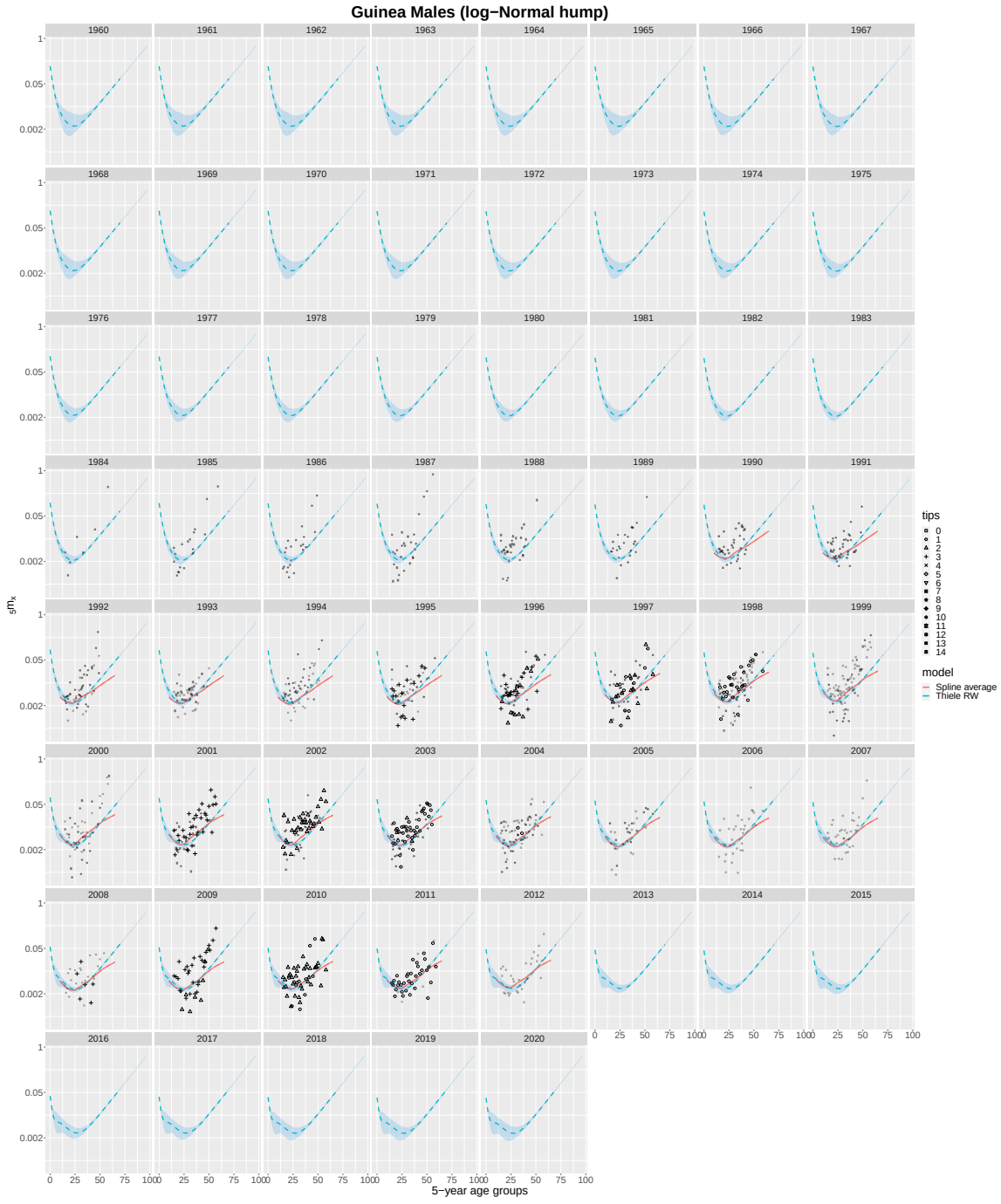

Figure 8: Mortality Schedules

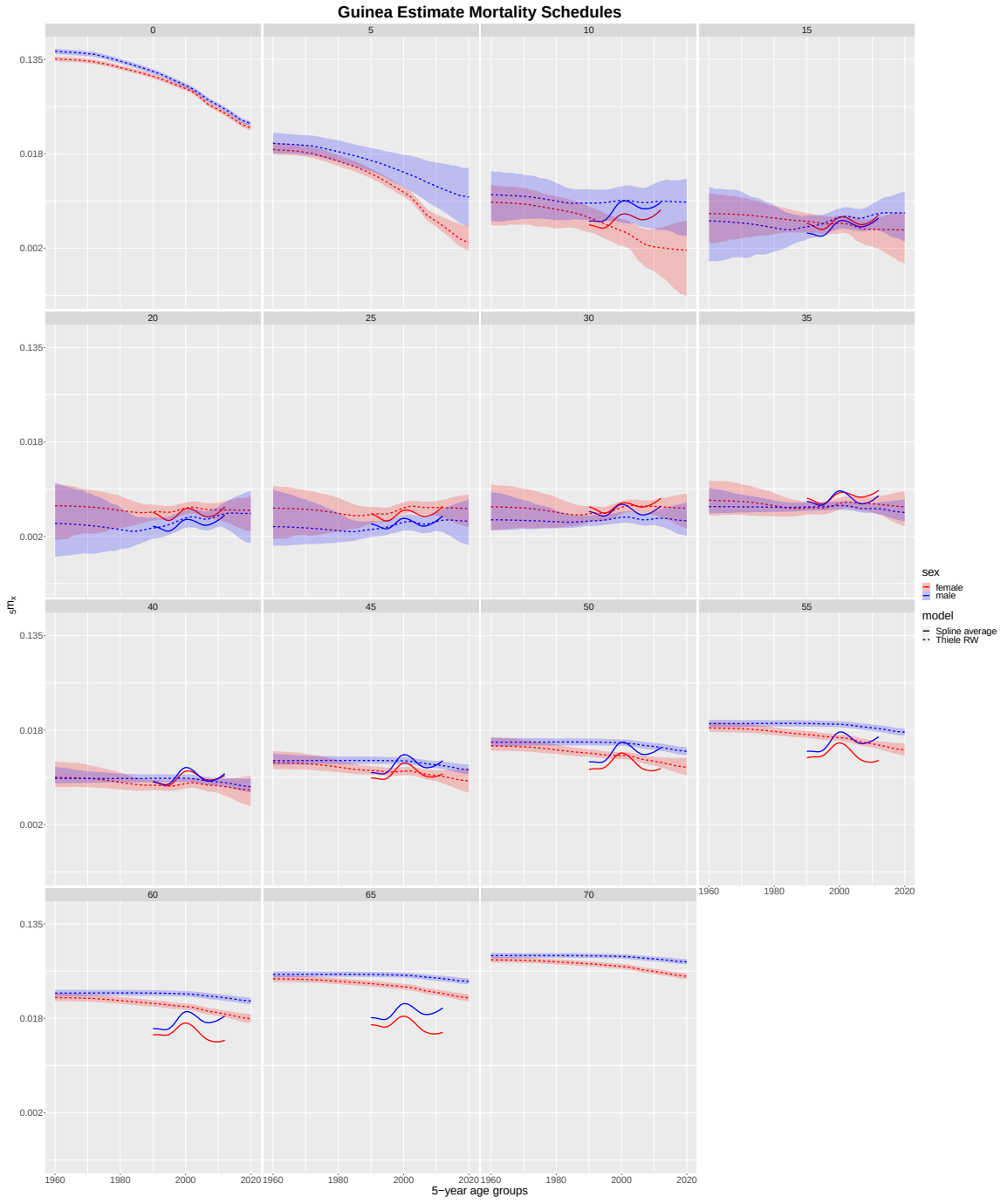

Figure 9: Mortality Schedules

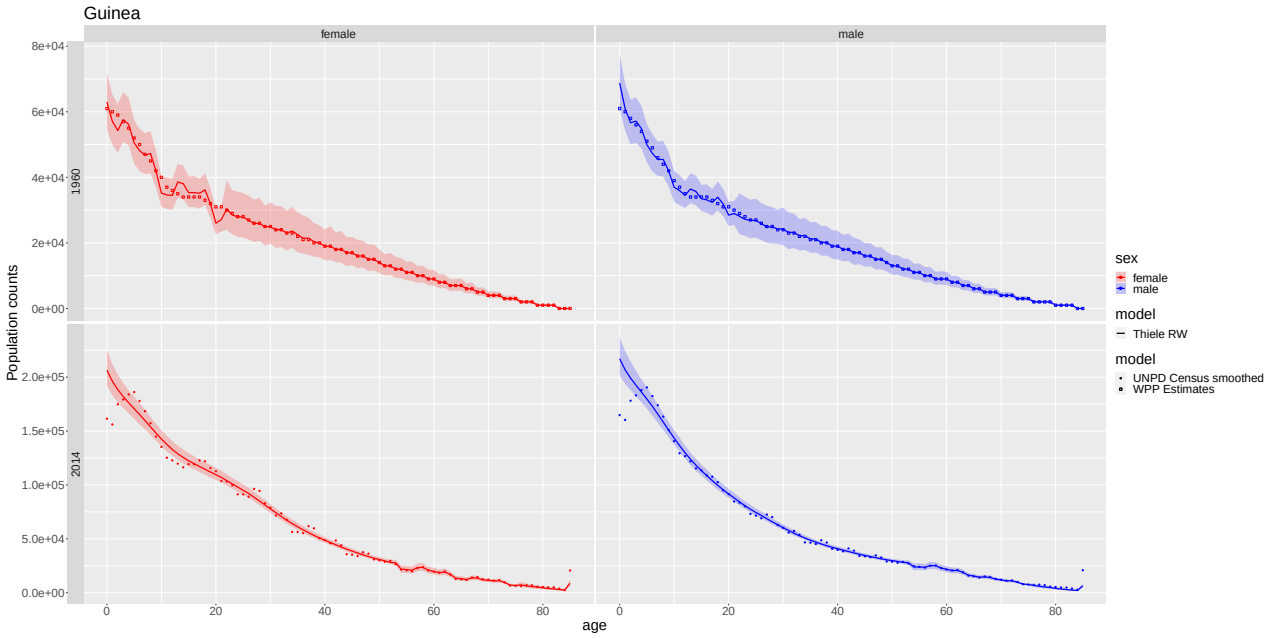

Figure 10: Population

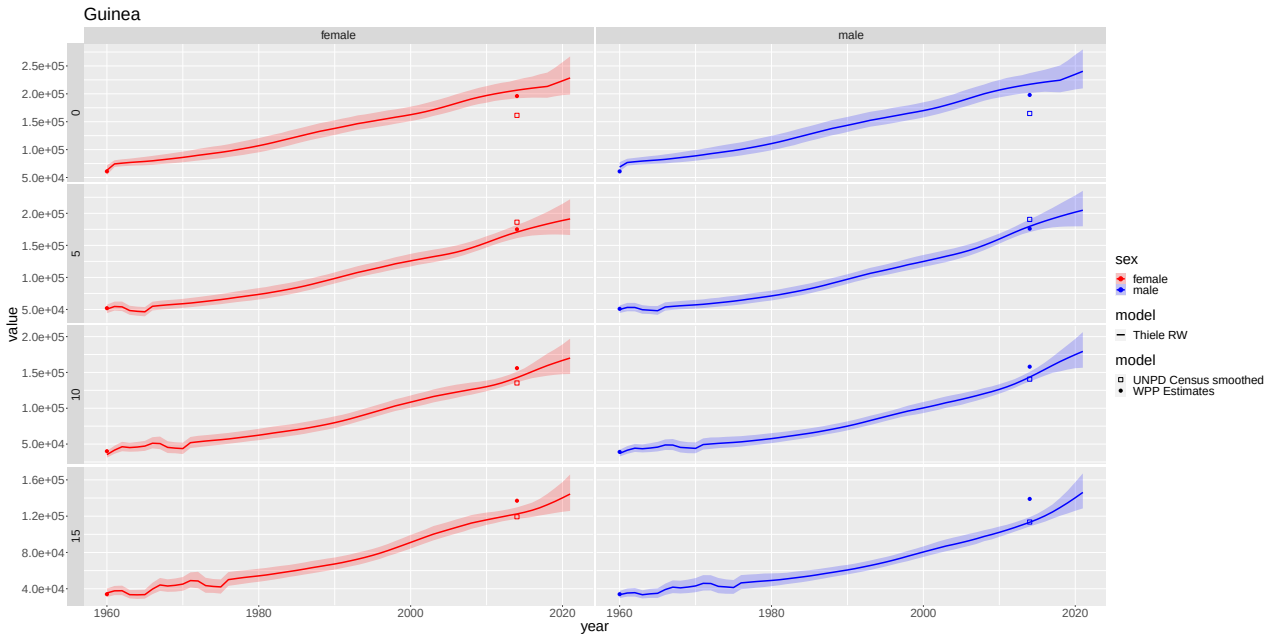

Figure 11: Population

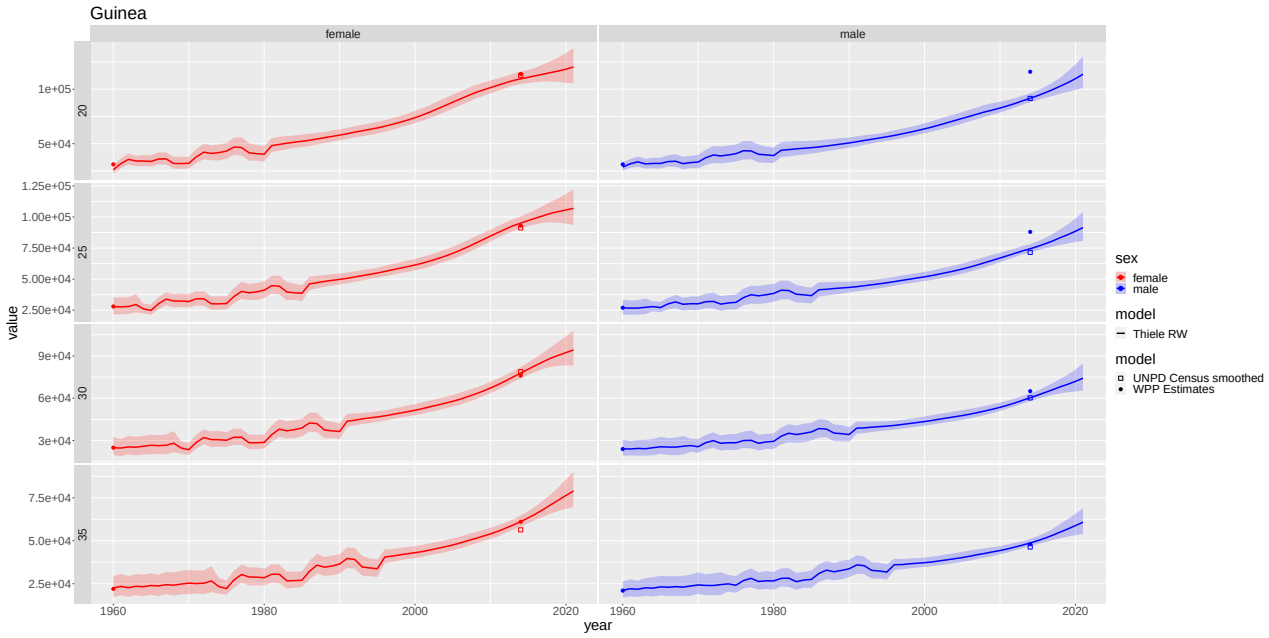

Figure 12: Population

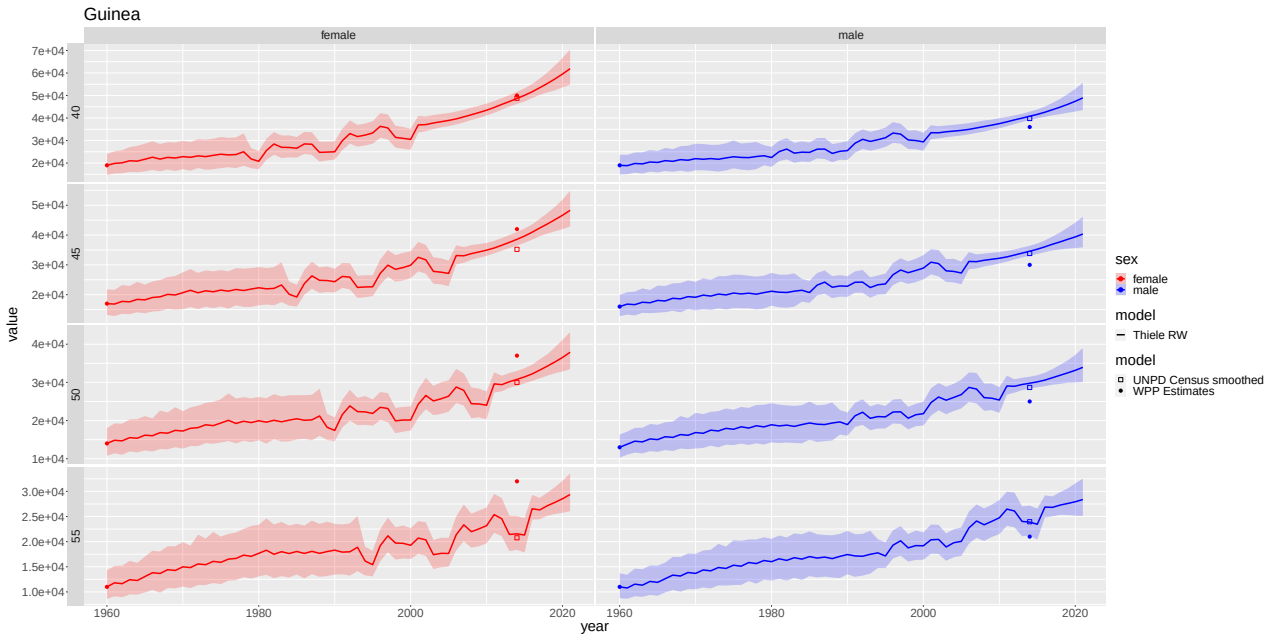

Figure 13: Population

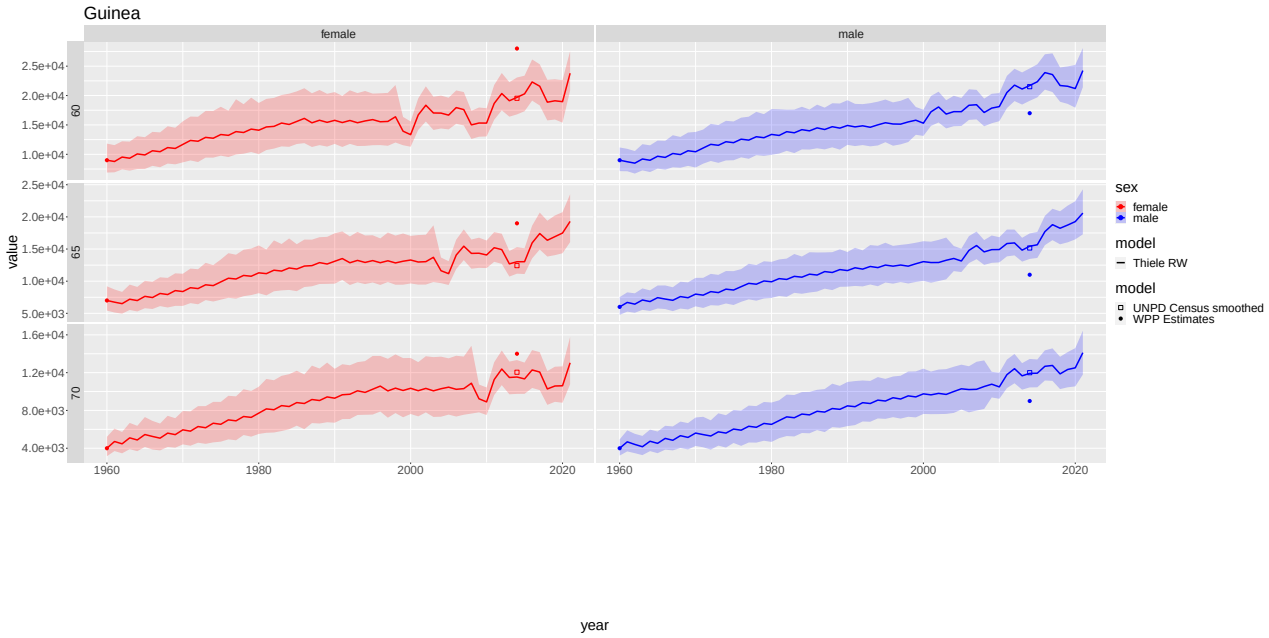

Figure 14: Population

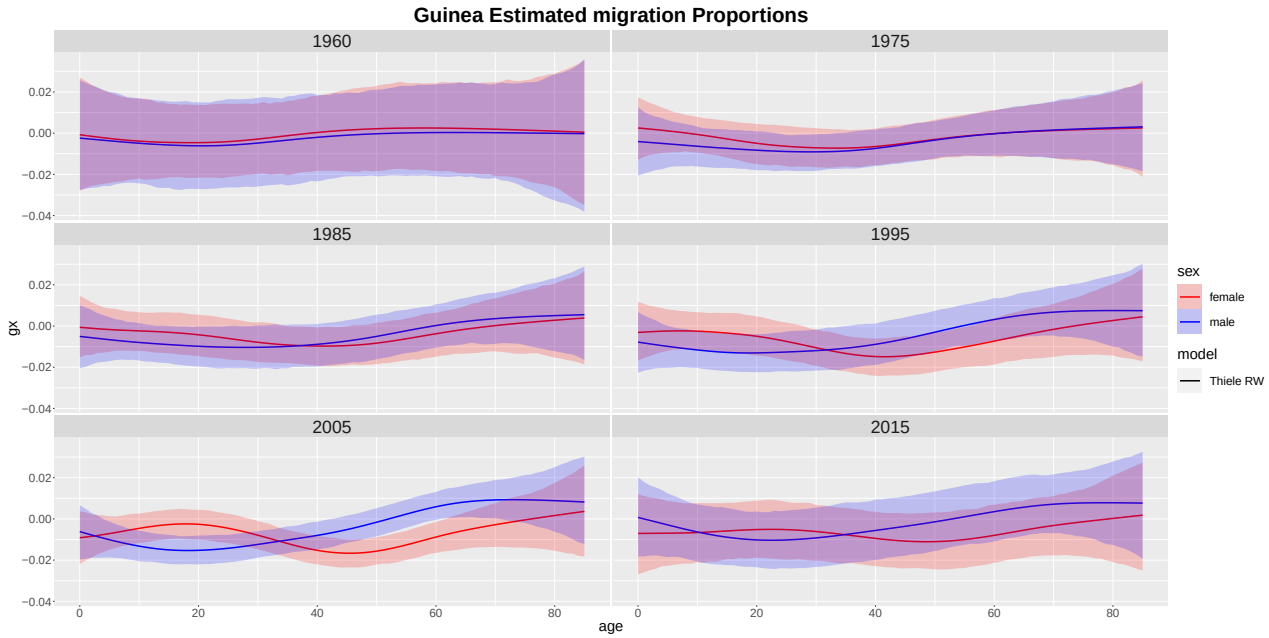

Figure 15: Migration

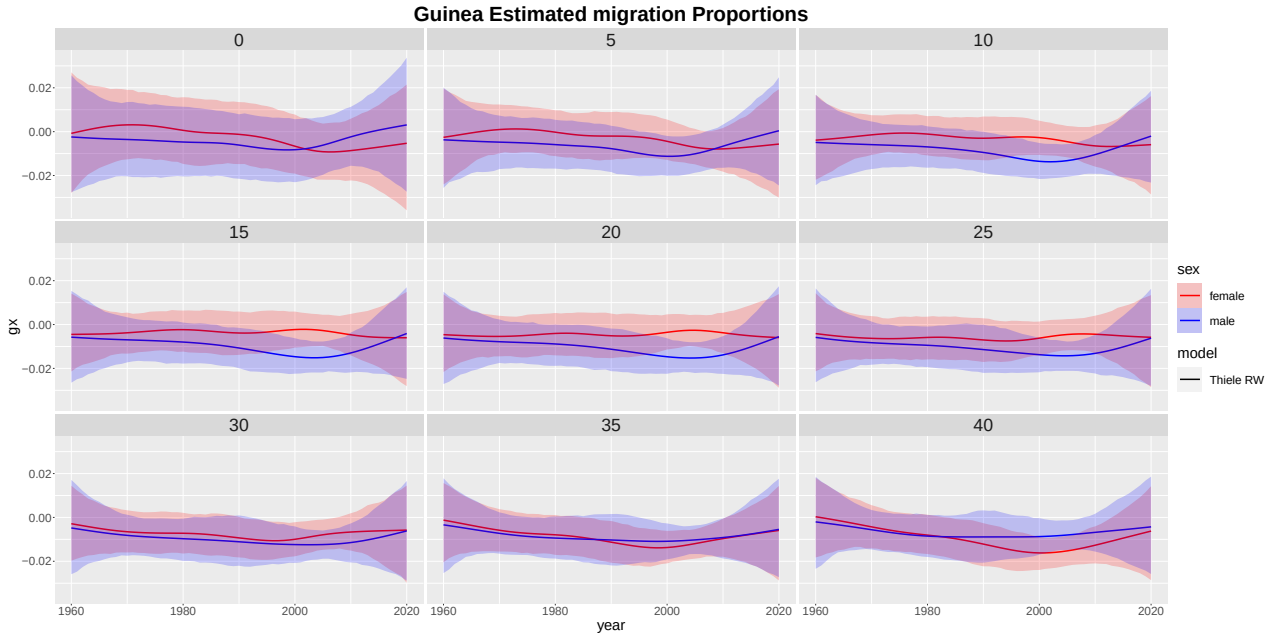

Figure 16: Migration

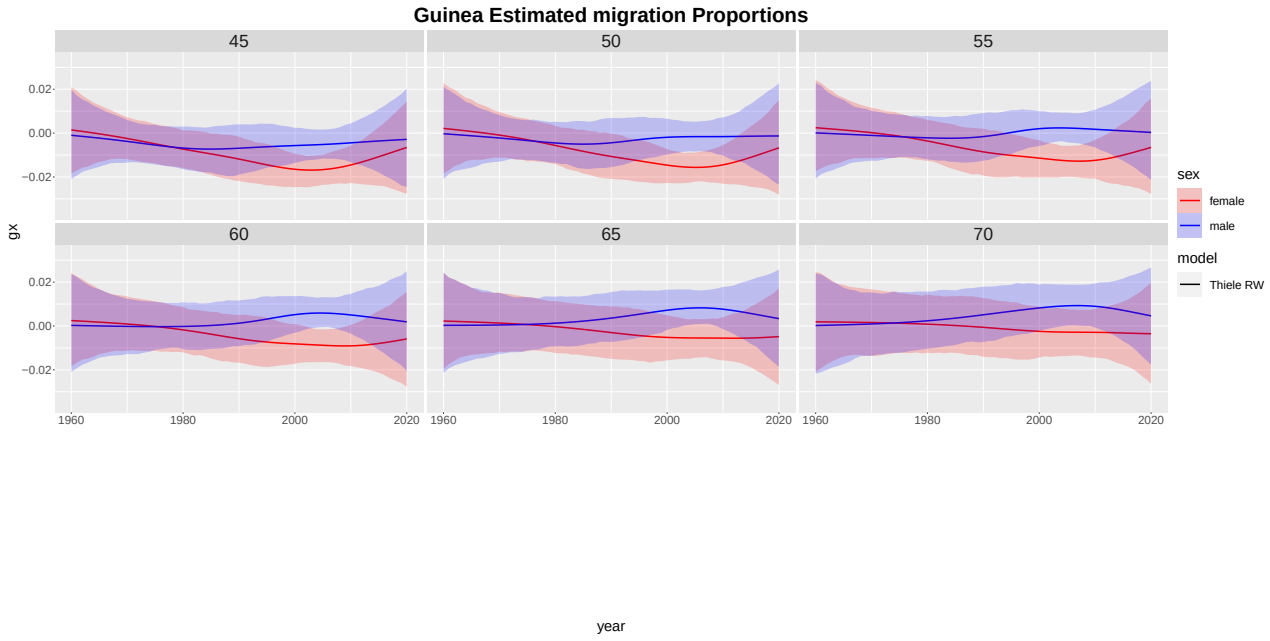

Figure 17: Migration

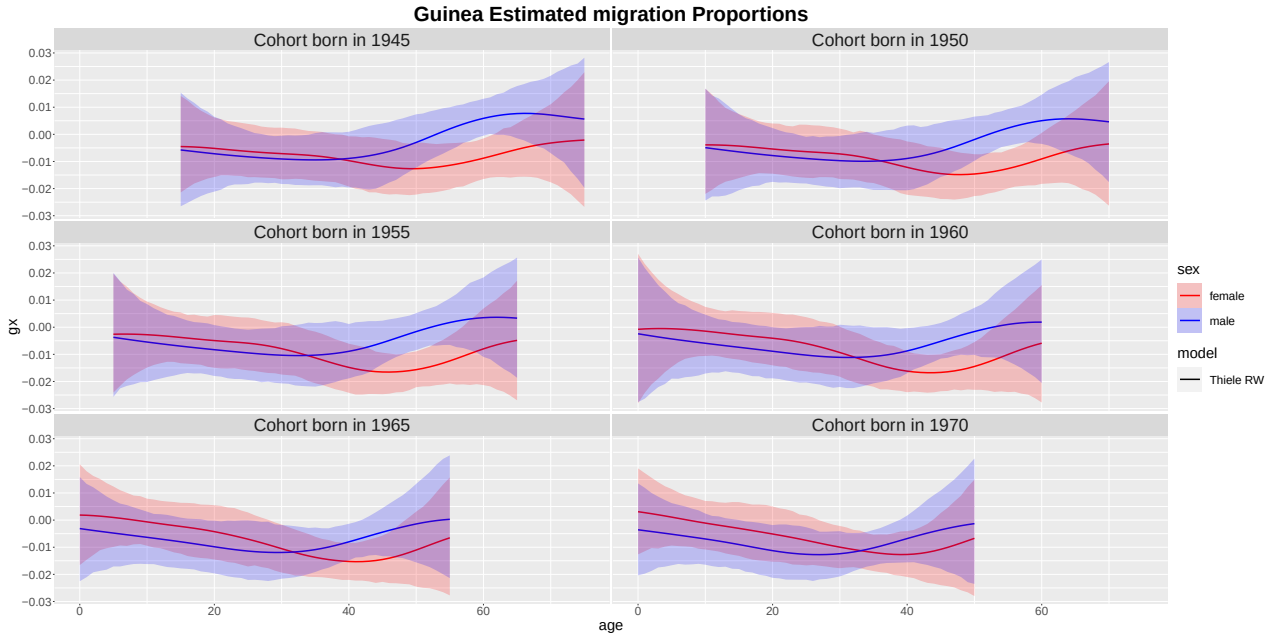

Figure 18: Migration

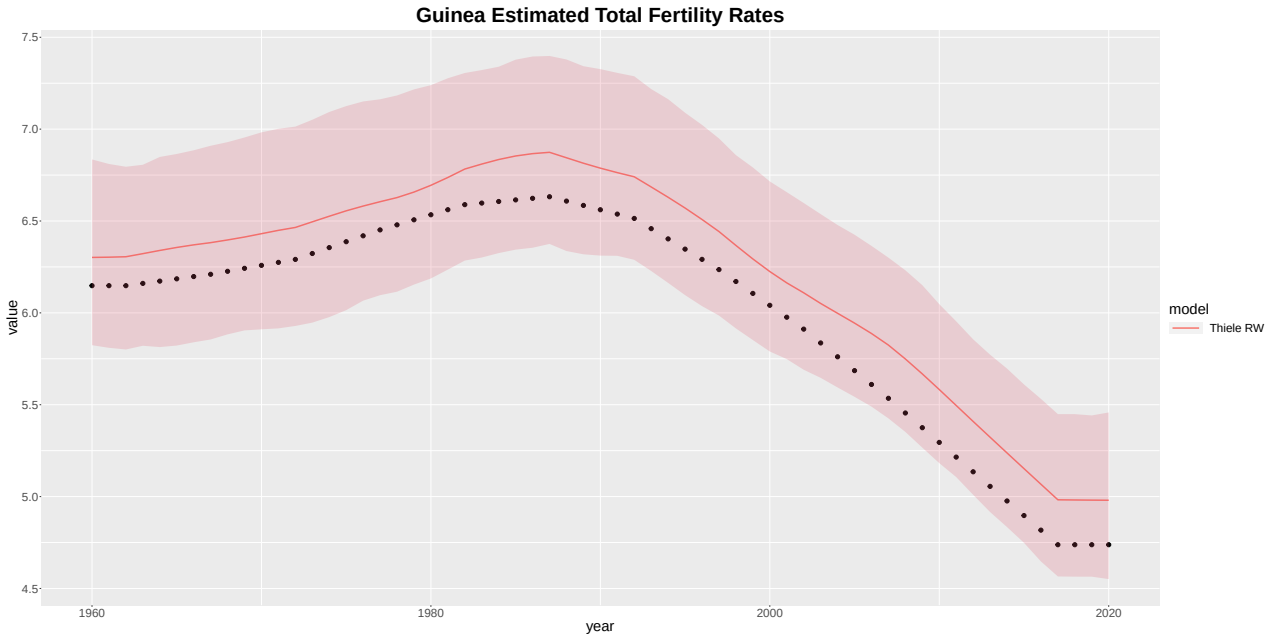

Figure 19: Total Fertility

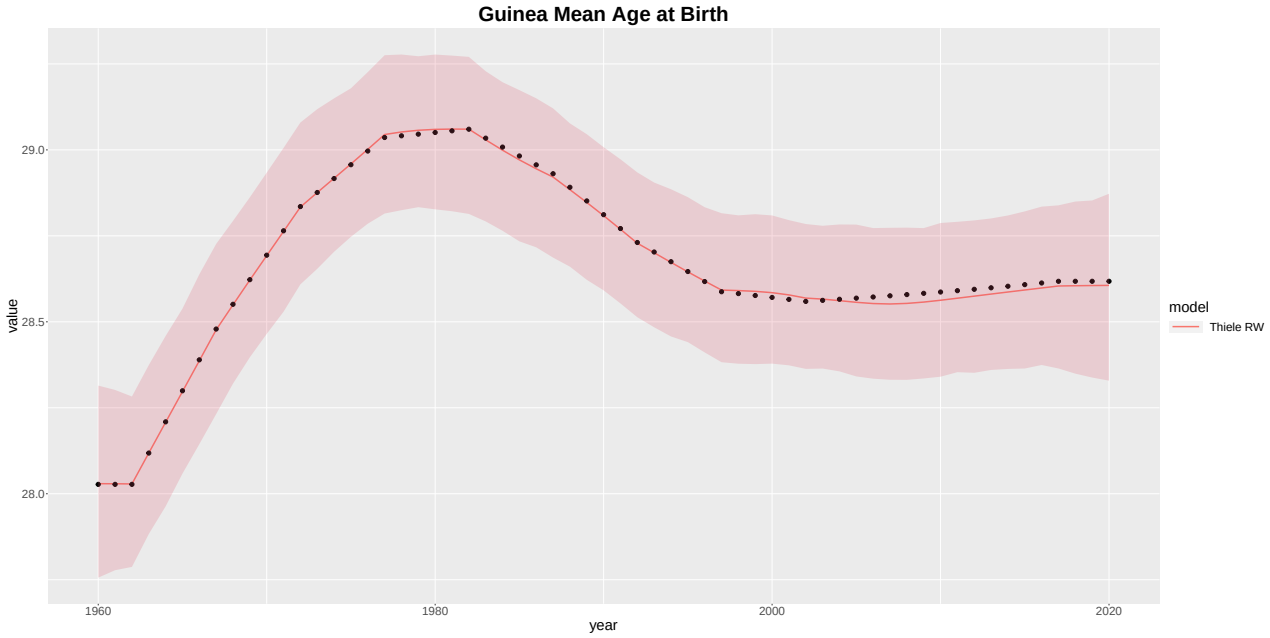

Figure 20: Mean age at births

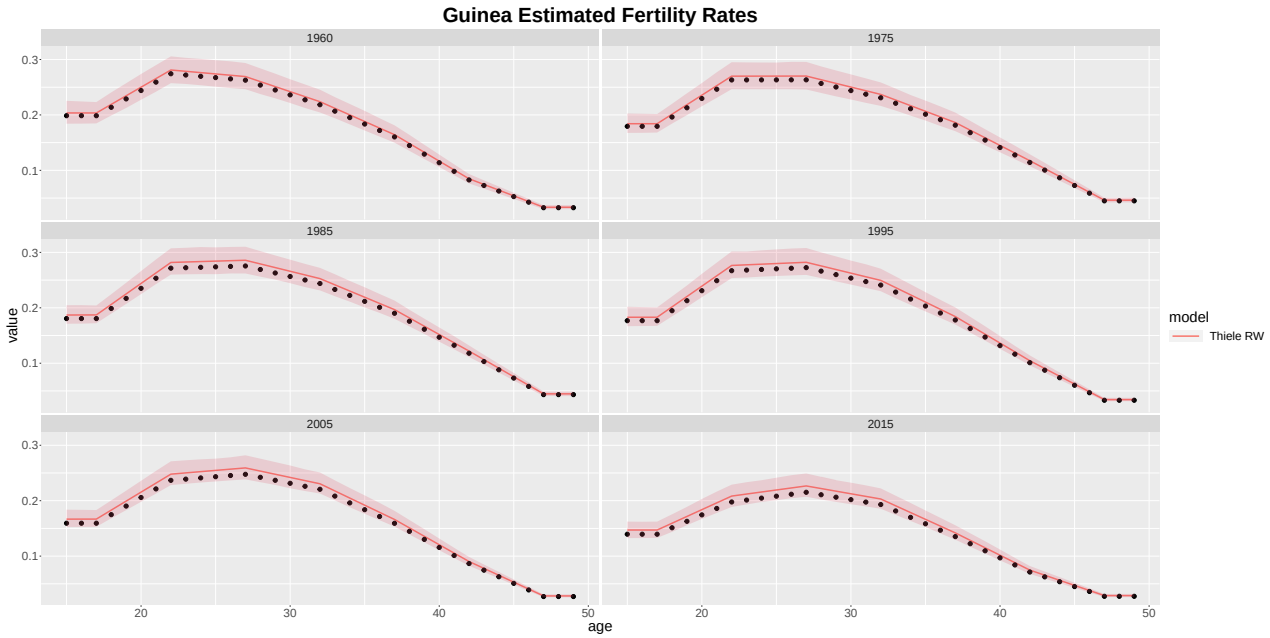

Figure 21: Fertility

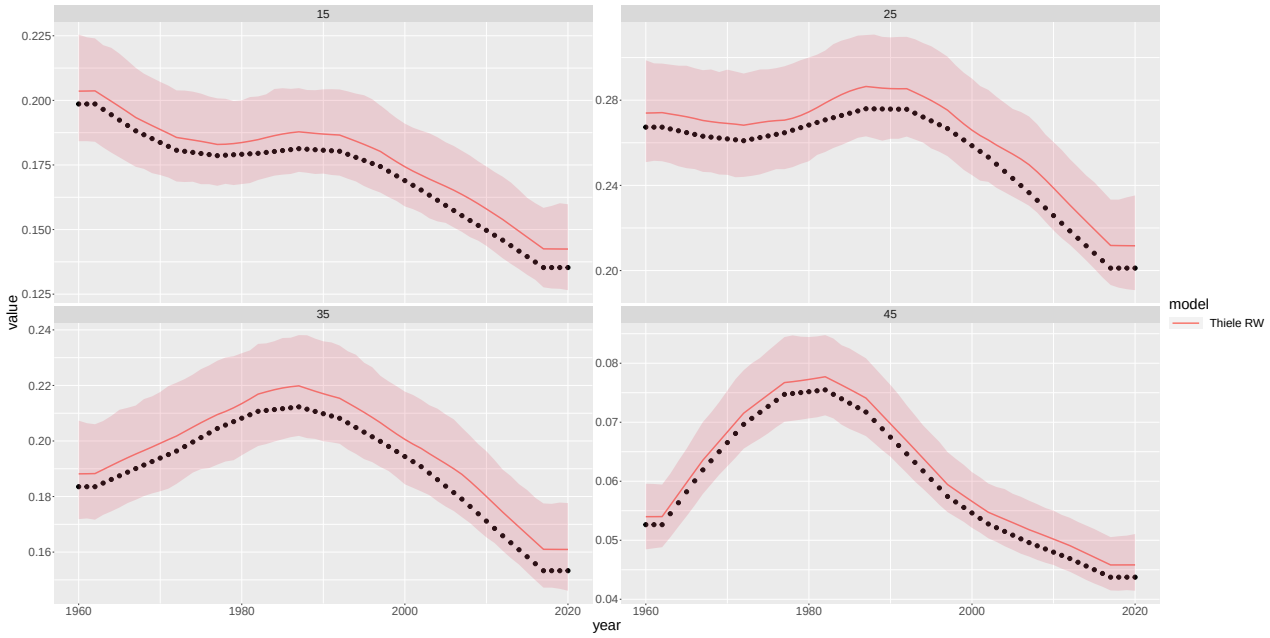

Figure 22: Fertility