Guinea

```
## [1] "Census Females"
## # A tibble: 86 x 2
        age `2014`
##
      <dbl> <dbl>
##
##
   1
         0 161421
##
   2
         1 156097.
##
   3
          2 174828.
##
          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.
##
          5 190464.
```

6

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

$Thiele\ log\text{-}Normal\ Hump\ Spline$

[1] "relative convergence (4)"

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	lo
##	4.77824441	6.04078390	4.77694059	5.95653278	
##	log_dispersion	log_dispersion	log_lambda_tp	tp_slope	
##	0.34742538	0.48040789	3.96409695	-0.02408727	
##	log_lambda_phi	log_lambda_psi	log_lambda_A	log_lambda_B	log_la
##	12.72792024	12.70754224	12.77949570	12.92980204	
##	log_lambda_epsilon				
##	4.67017932				

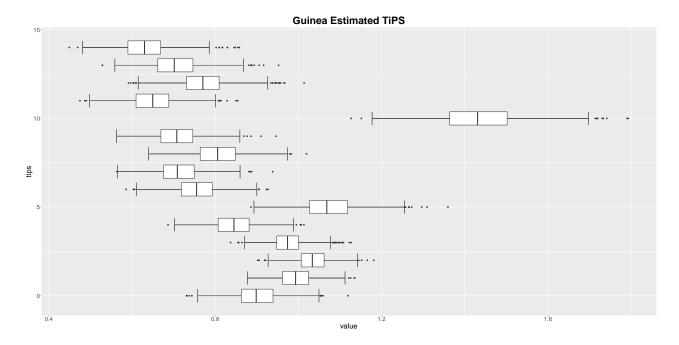


Figure 1: Estimated TiPS

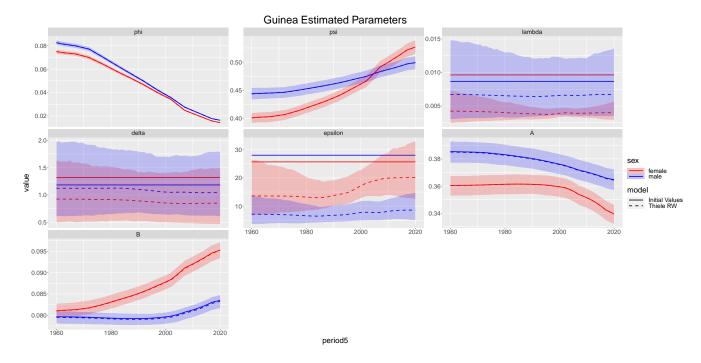


Figure 2: Estimated parameters

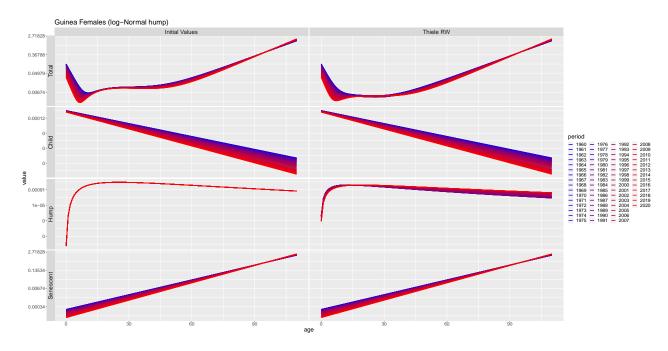


Figure 3: Thiele Decomposed

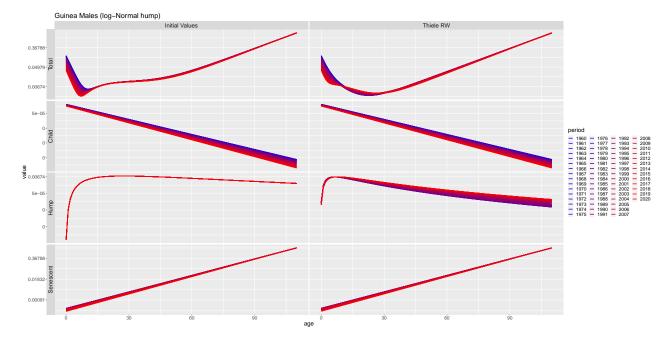


Figure 4: Thiele Decomposed

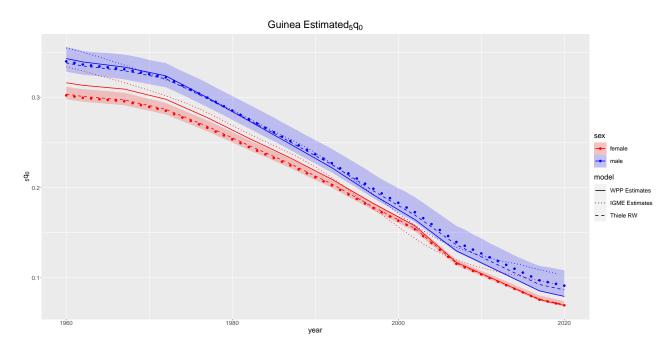


Figure 5: Estimated $_5q_0$

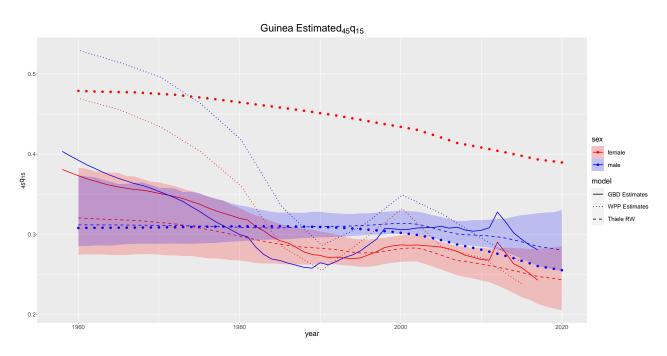


Figure 6: Estimated $_{45}q_{15}$

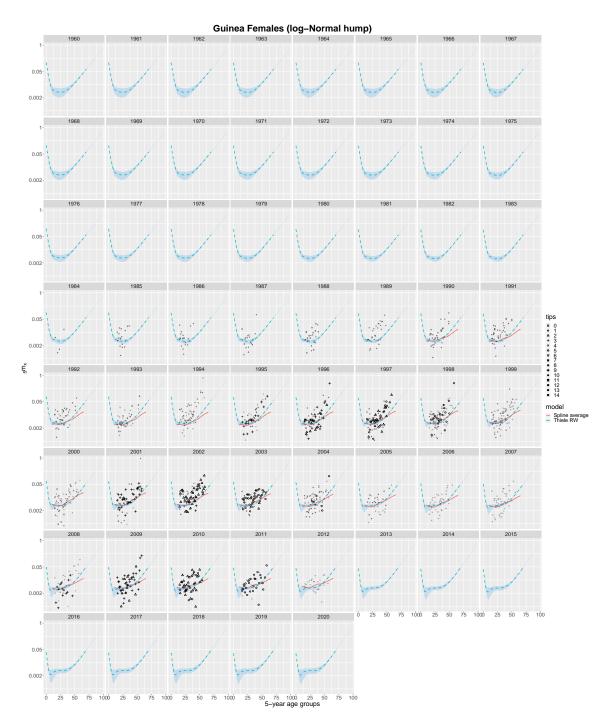


Figure 7: Mortality Schedules

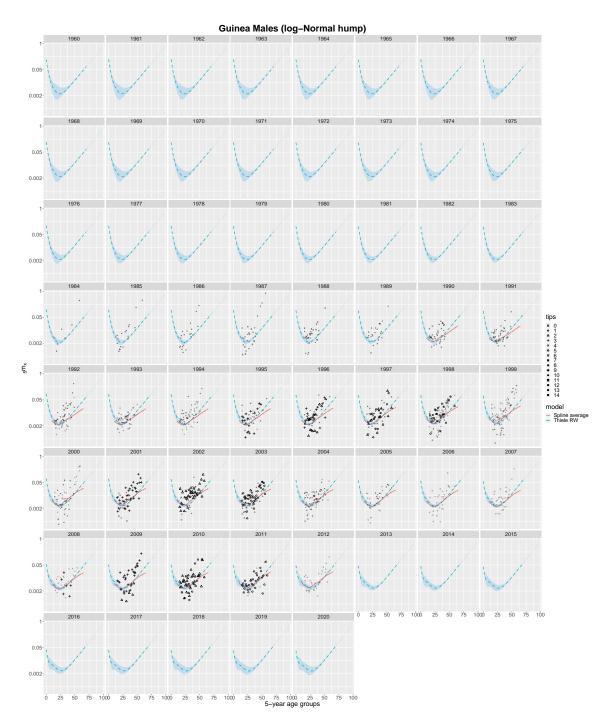


Figure 8: Mortality Schedules

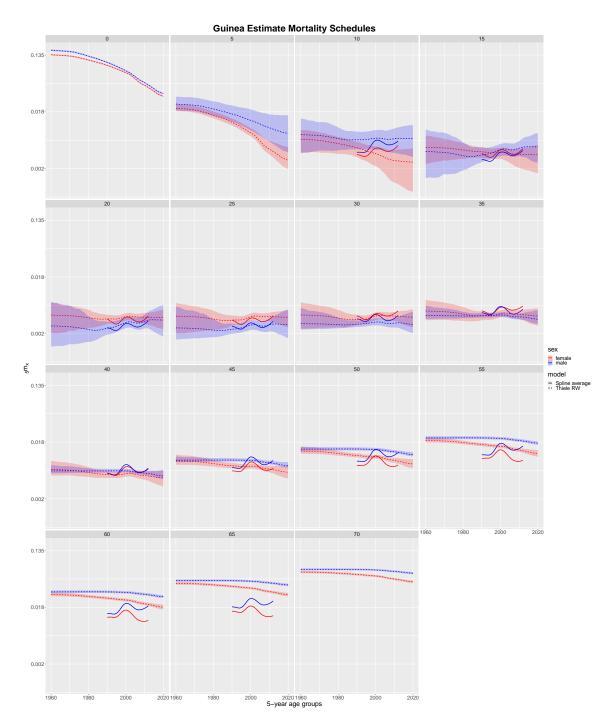


Figure 9: Mortality Schedules

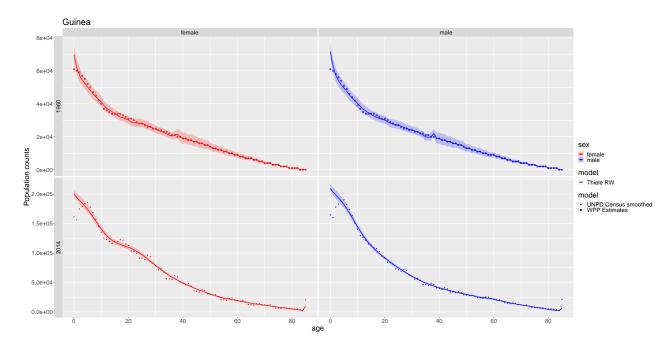


Figure 10: Population

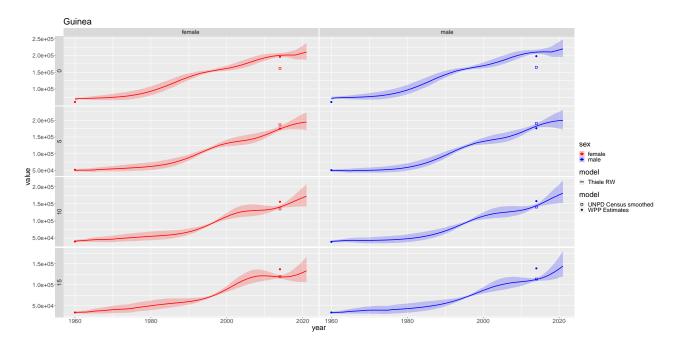


Figure 11: Population

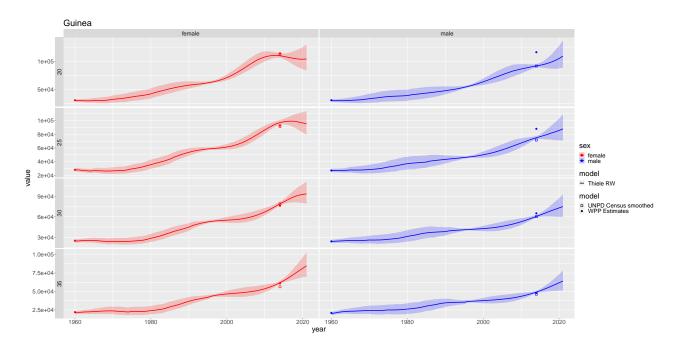


Figure 12: Population

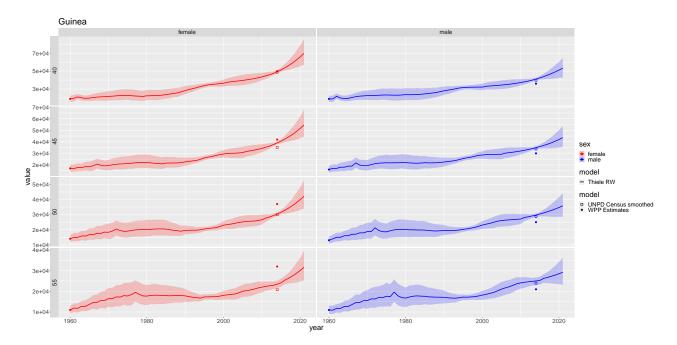
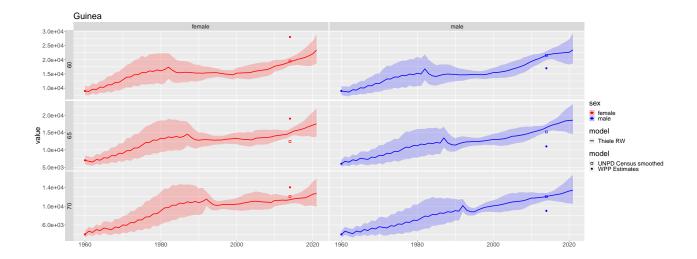


Figure 13: Population



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Figure 14: Population

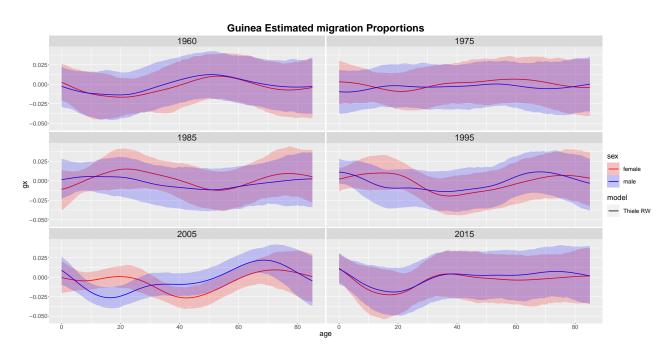


Figure 15: Migration

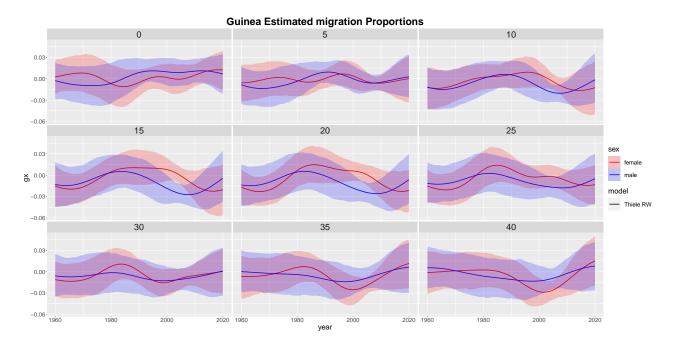


Figure 16: Migration

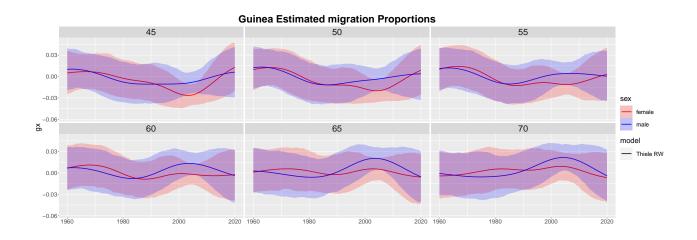


Figure 17: Migration

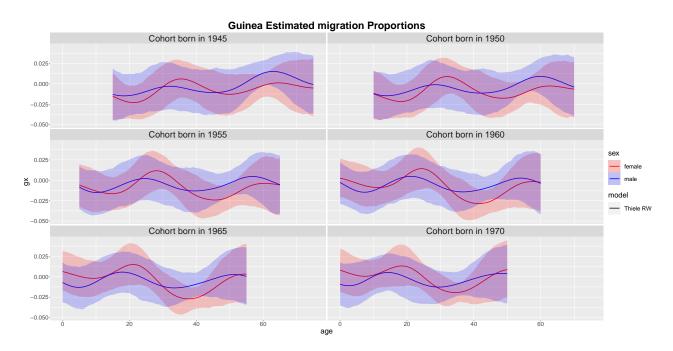


Figure 18: Migration

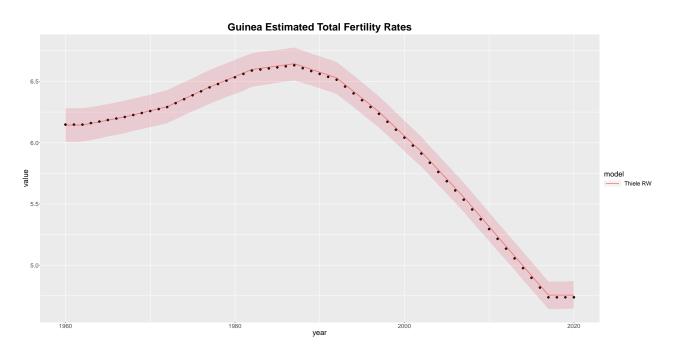


Figure 19: Total Fertility

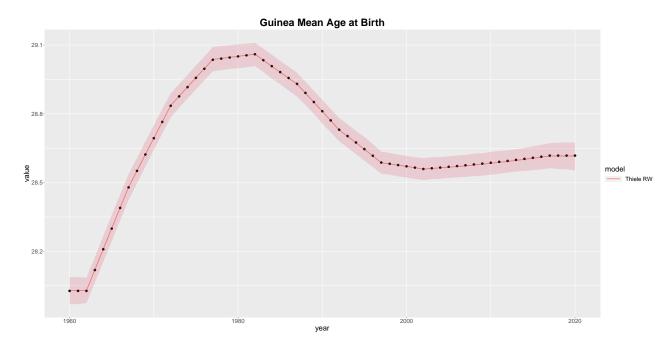


Figure 20: Mean age at births

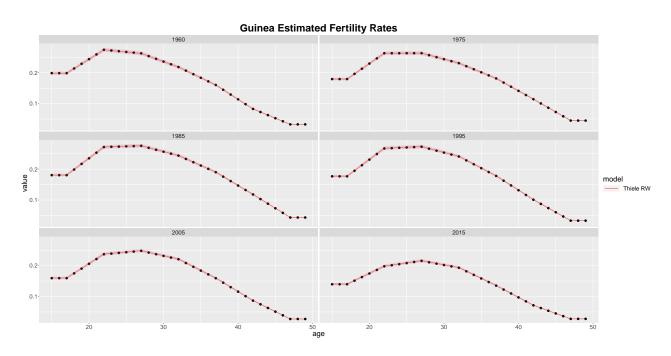


Figure 21: Fertility

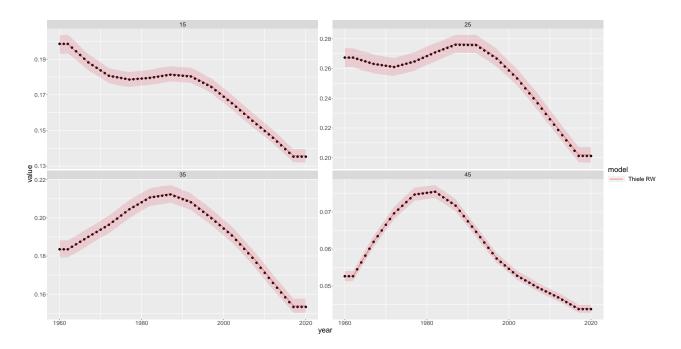


Figure 22: Fertility