Gambia

```
## [1] "Census Females"
## # A tibble: 86 x 4
       age `1973` `1983` `1993`
##
      <dbl> <dbl> <dbl> <dbl>
##
##
   1
          0 10161 8954. 14438.
   2
          1 8901. 10514. 14418.
   3
          2 8058. 11886. 16911.
##
##
          3 7548. 12294. 17600.
          4 7194. 12659. 18292.
##
   5
##
          5 6938. 12702. 18550.
##
   7
          6 6734. 12179. 17794.
##
          7 6541. 11352. 16837.
## 9
          8 6350. 10368. 15721.
## 10
          9 6169. 9343. 14581.
## # ... with 76 more rows
## [1] "Census Females 5-year"
## # A tibble: 18 x 1
##
        age
##
      <dbl>
##
   1
          0
##
   2
          5
##
   3
         10
##
   4
         15
##
   5
         20
##
   6
         25
##
   7
         30
##
   8
         35
## 9
         40
## 10
         45
## 11
         50
## 12
         55
## 13
         60
## 14
         65
## 15
         70
## 16
         75
## 17
         80
## 18
         85
## [1] "Census Males"
## # A tibble: 86 x 4
        age `1973` `1983` `1993`
##
##
      <dbl> <dbl> <dbl> <dbl> <
   1
          0 10239
                    9379. 15106.
##
   2
          1 8856. 10807. 15019.
##
   3
          2
            7961. 11961. 17261.
##
          3 7434. 12184. 17786.
##
   5
          4 7054. 12479. 18368.
          5 6773. 12532. 18555.
##
   6
```

```
## 7
          6 6566. 12055. 17795.
## 8
         7 6383. 11387. 16934.
## 9
         8 6202 10614. 15939.
## 10
         9 6031. 9779. 14915.
## # ... with 76 more rows
## [1] "Census Males 5-year"
## # A tibble: 18 x 1
##
        age
##
      <dbl>
##
   1
          0
   2
##
          5
##
   3
         10
##
   4
         15
## 5
         20
   6
##
         25
## 7
         30
## 8
         35
## 9
         40
## 10
         45
## 11
         50
## 12
         55
## 13
         60
## 14
         65
## 15
         70
## 16
         75
## 17
         80
## 18
         85
```

Thiele log-Normal Hump Spline

[1] "relative convergence (4)"

						l l
##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_lambda_fx	log
##	3.80595737	4.95839373	3.66441841	4.36006146	4.17072074	
##	log_lambda_tp	tp_slope	tp_params_5	tp_params_10	log_lambda_phi	log_
##	3.24599076	-0.06988313	0.15744226	0.43880744	12.61105660	1
##	log_lambda_lambda	log_lambda_delta	log_lambda_epsilon			
##	5.92626472	8.66338022	4.08773520			

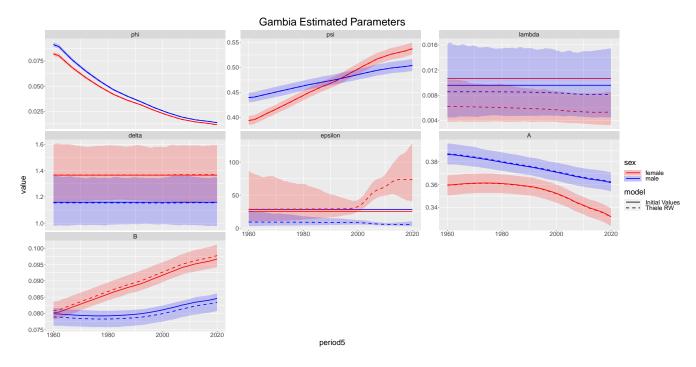


Figure 1: Estimated parameters

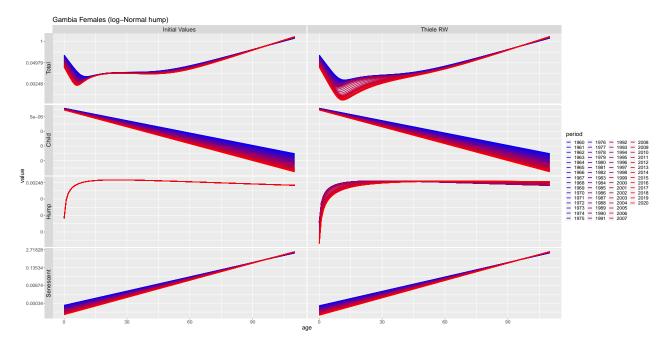


Figure 2: Thiele Decomposed

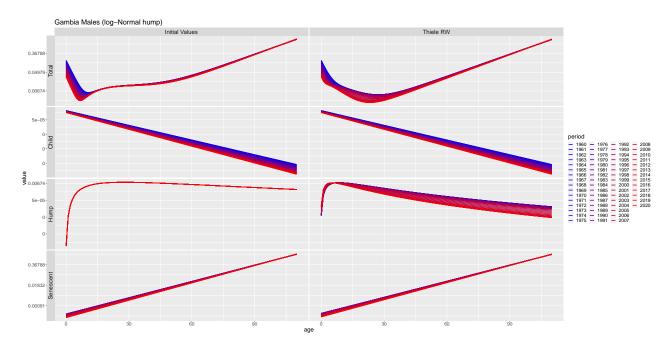


Figure 3: Thiele Decomposed

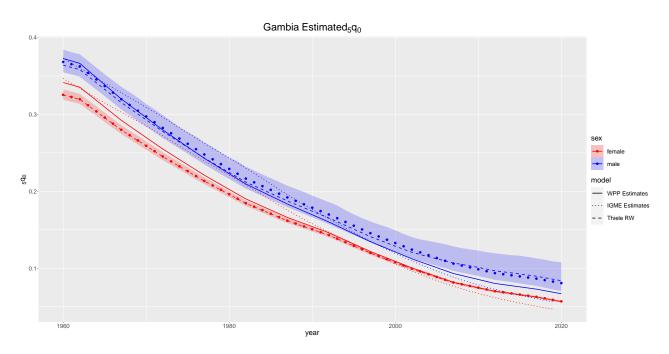


Figure 4: Estimated $_5q_0$

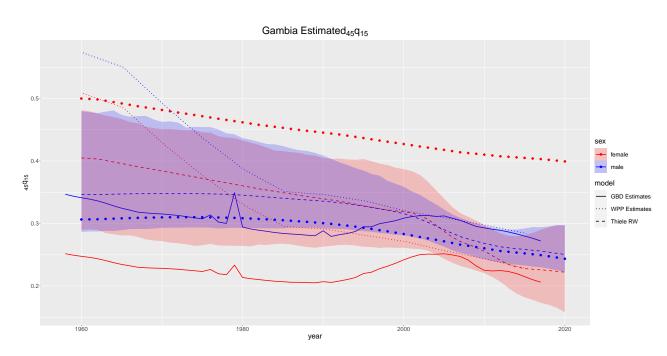


Figure 5: Estimated $_{45}q_{15}$

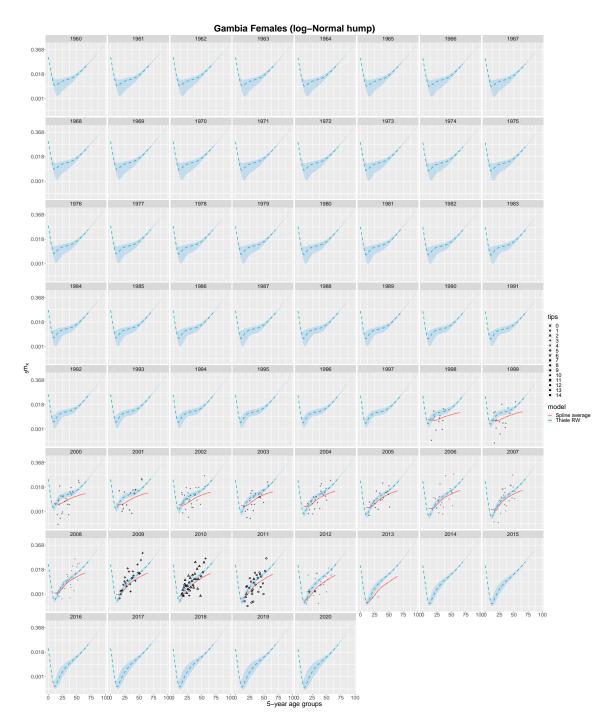


Figure 6: Mortality Schedules

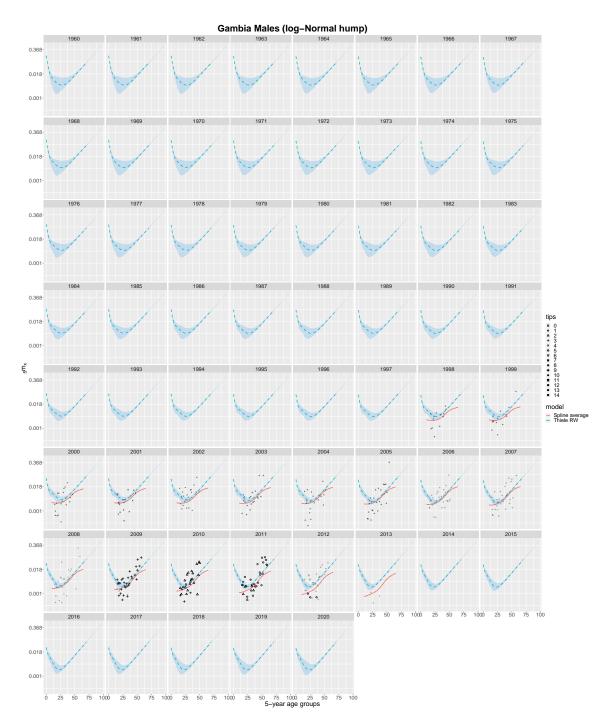


Figure 7: Mortality Schedules

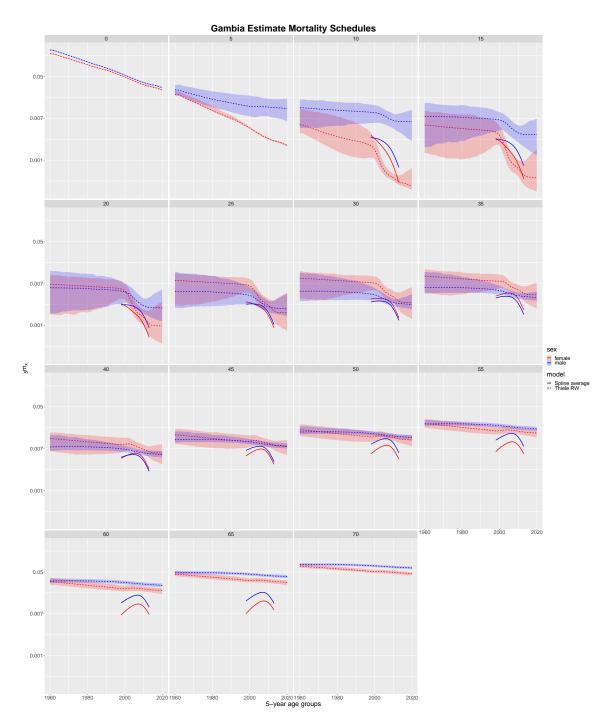


Figure 8: Mortality Schedules

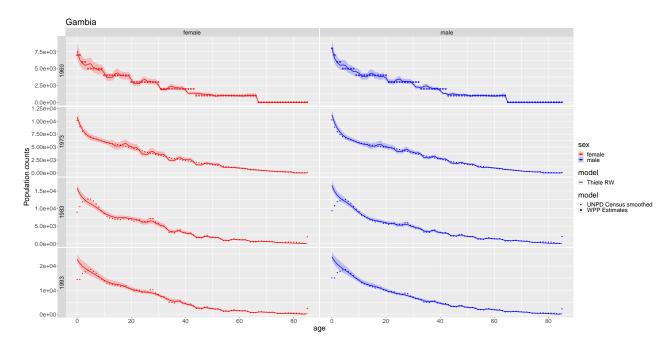


Figure 9: Population

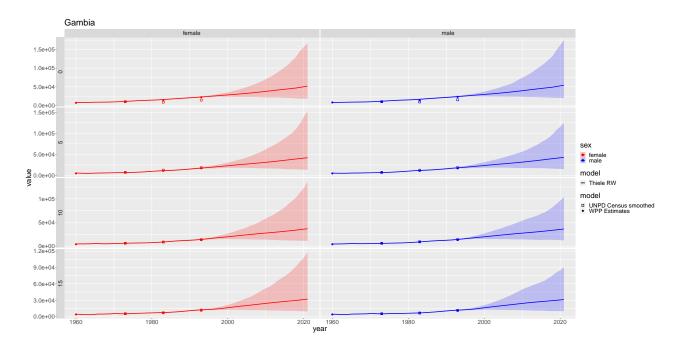


Figure 10: Population

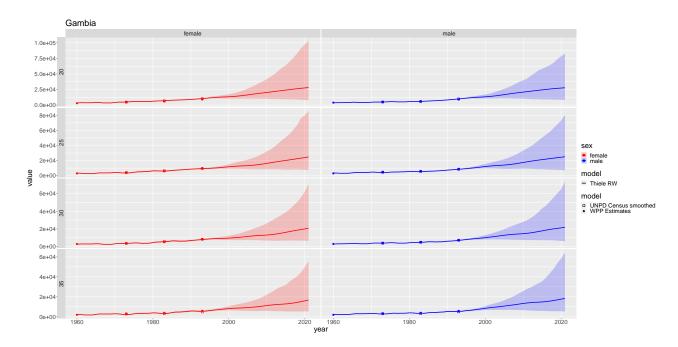


Figure 11: Population

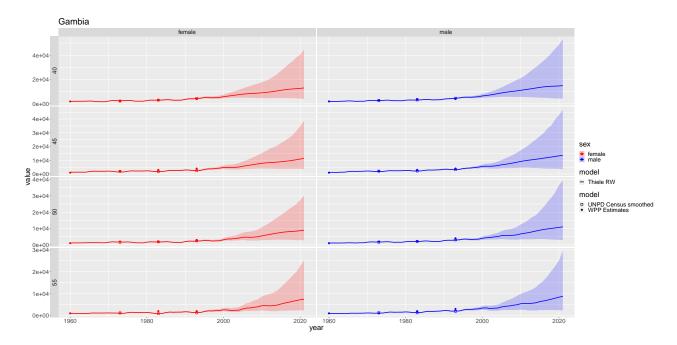
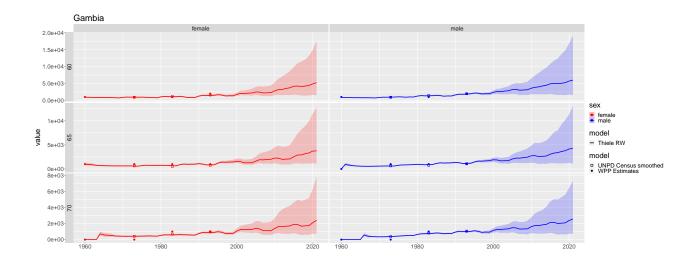


Figure 12: Population



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Figure 13: Population

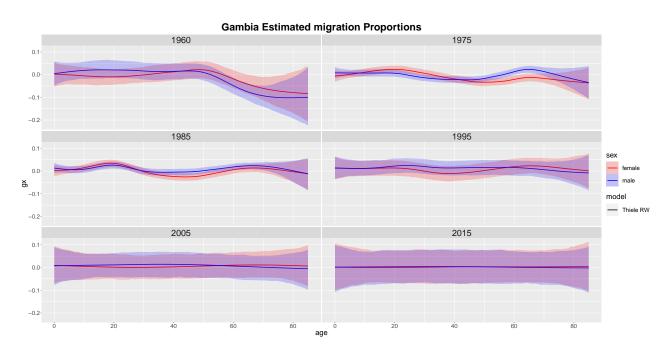


Figure 14: Migration

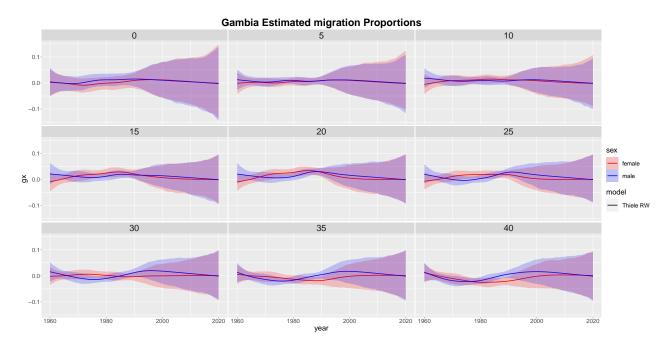


Figure 15: Migration

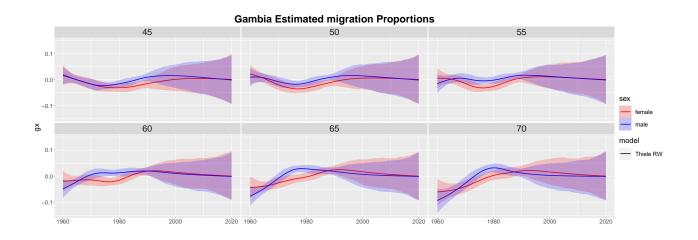


Figure 16: Migration

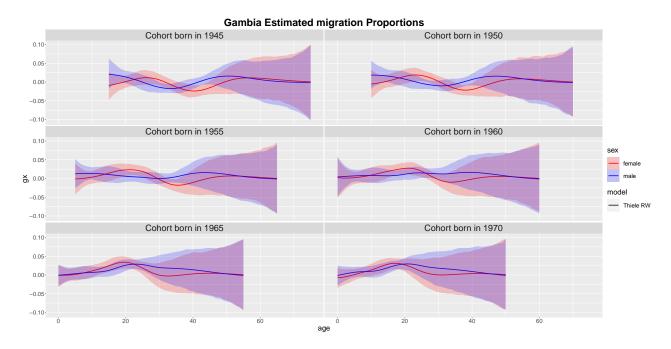


Figure 17: Migration

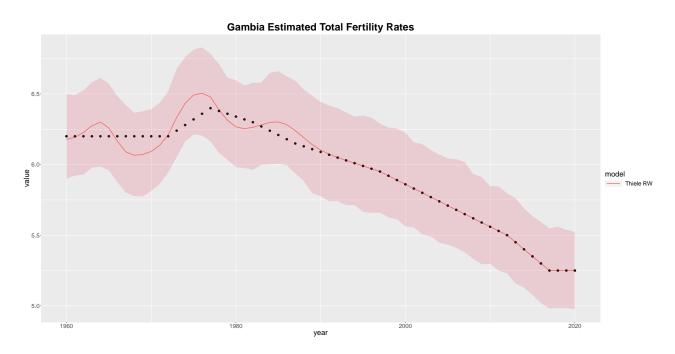


Figure 18: Total Fertility

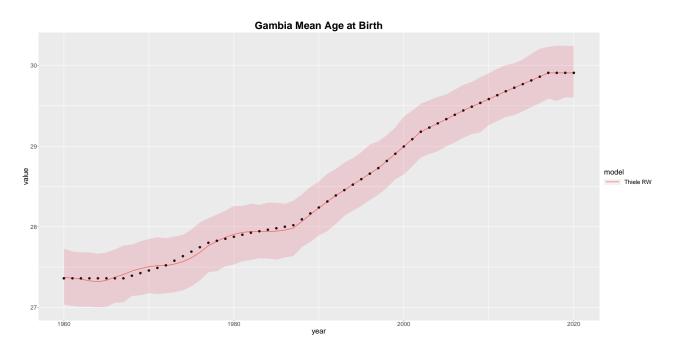


Figure 19: Mean age at births

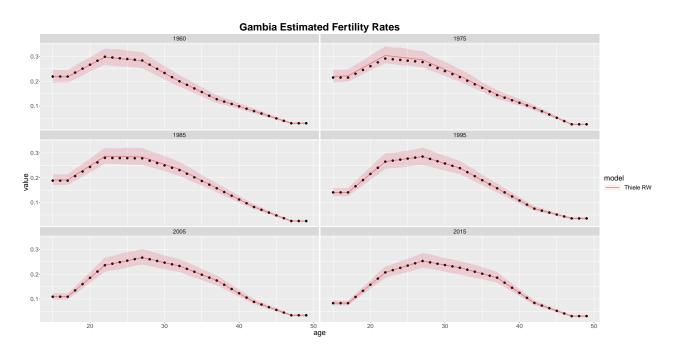


Figure 20: Fertility

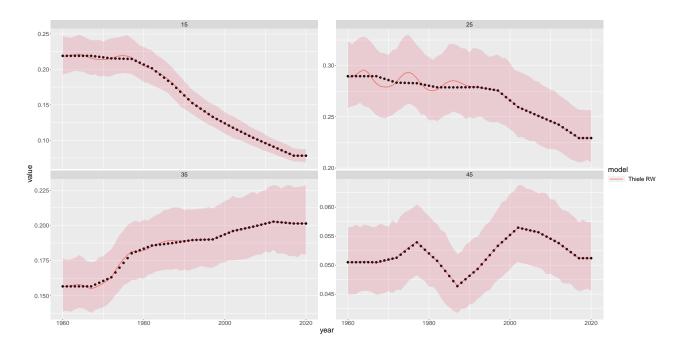


Figure 21: Fertility