## Angola

```
## [1] "Census Females"
## # A tibble: 86 x 2
        age `2014`
##
      <dbl> <dbl>
##
##
          0 438929
   1
##
   2
         1 529096.
##
   3
          2 512564
##
          3 503159.
##
   5
         4 482890.
##
   6
          5 467691.
##
   7
          6 444757.
##
          7 420007.
## 9
          8 395598
## 10
          9 371973.
## # ... with 76 more rows
## [1] "Census Females 5-year"
## # A tibble: 18 x 1
##
        age
##
      <dbl>
##
   1
##
   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 2
        age `2014`
##
##
      <dbl>
              <dbl>
##
   1
          0 435201
   2
          1 523750.
##
##
   3
          2 506322.
##
   4
          3 496824.
##
   5
          4 476364.
```

5 461347.

## 6

```
## 7
          6 438334.
## 8
          7 412996.
## 9
          8 388362.
## 10
          9 364539.
## # ... with 76 more rows
## [1] "Census Males 5-year"
## # A tibble: 18 x 1
##
        age
##
      <dbl>
##
   1
          0
    2
##
          5
##
   3
         10
##
   4
         15
         20
##
   5
    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
```

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

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

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_lambda_fx	log
##	3.977869955	5.295973531	3.773110439	5.177443371	6.941731663	12
##	log_lambda_tp	tp_slope	tp_params_5	tp_params_10	log_lambda_phi	log_
##	3.086422804	0.008764089	0.151008020	0.441527542	11.340304285	11
##	log_lambda_lambda	log_lambda_delta	log_lambda_epsilon			
##	4.476877601	8.501524048	8.524577564			

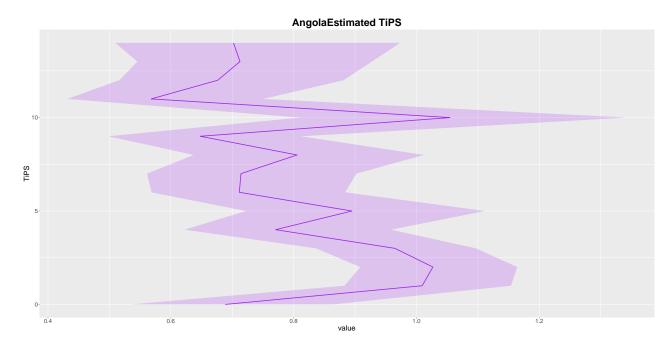


Figure 1: Estimated TiPS

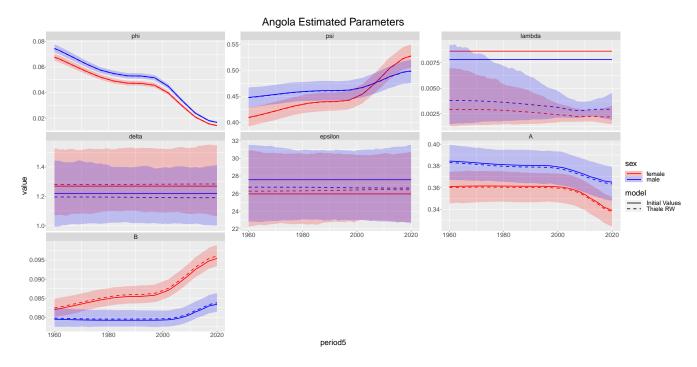


Figure 2: Estimated parameters

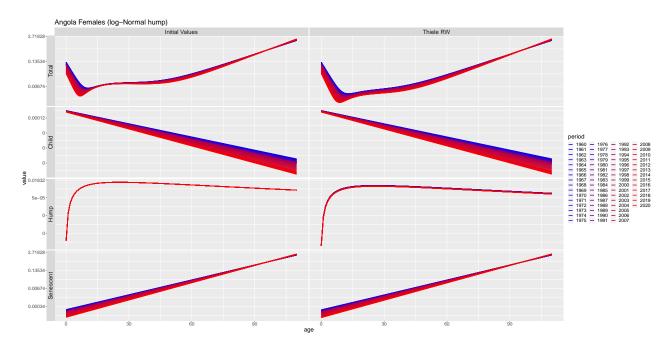


Figure 3: Thiele Decomposed

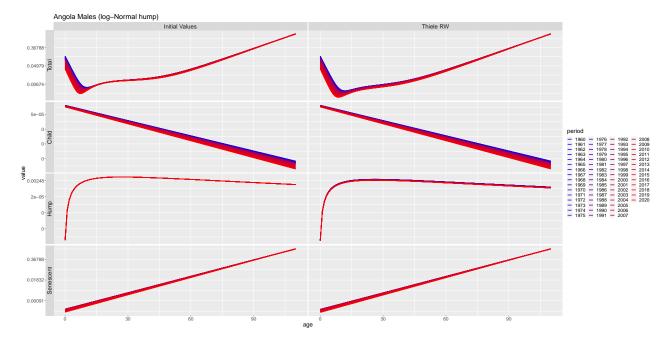


Figure 4: Thiele Decomposed

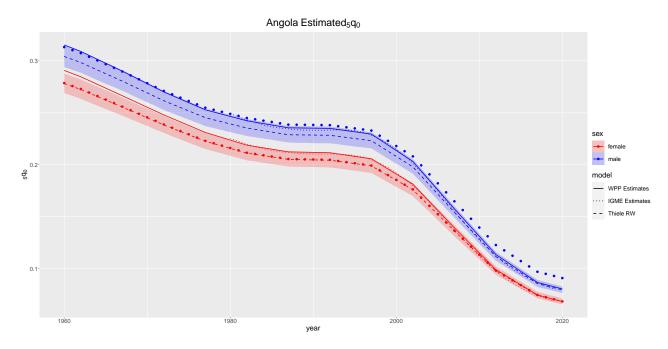


Figure 5: Estimated  $_5q_0$ 

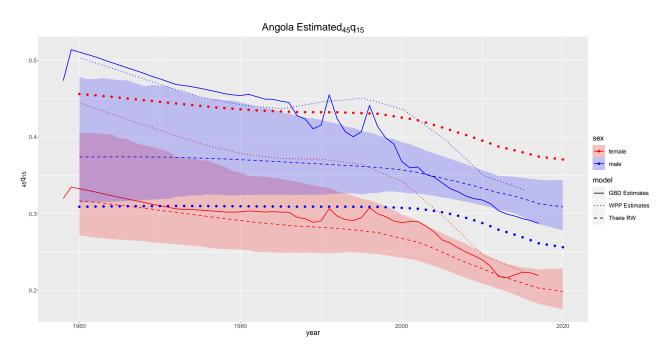


Figure 6: Estimated  $_{45}q_{15}$ 

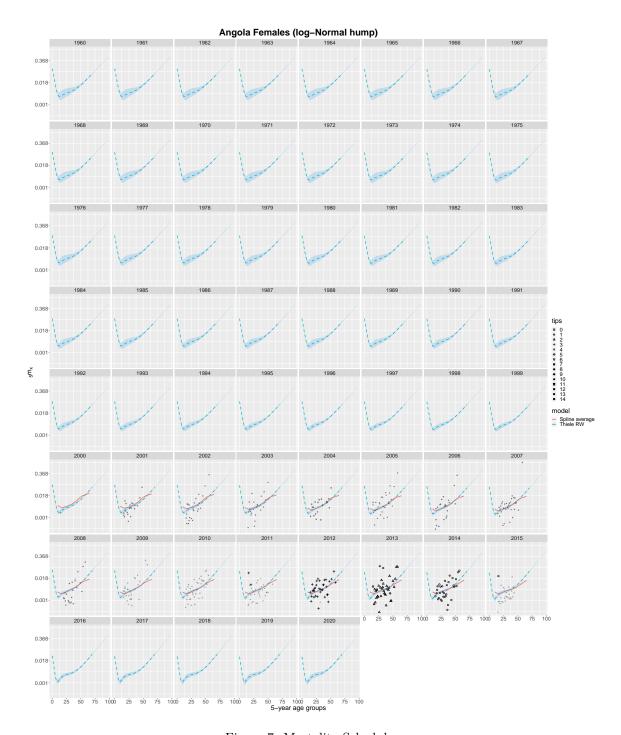


Figure 7: Mortality Schedules

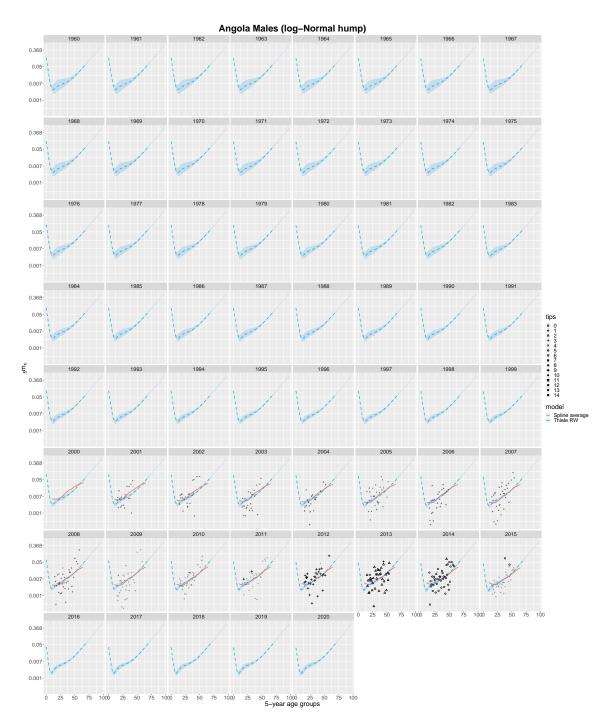


Figure 8: Mortality Schedules

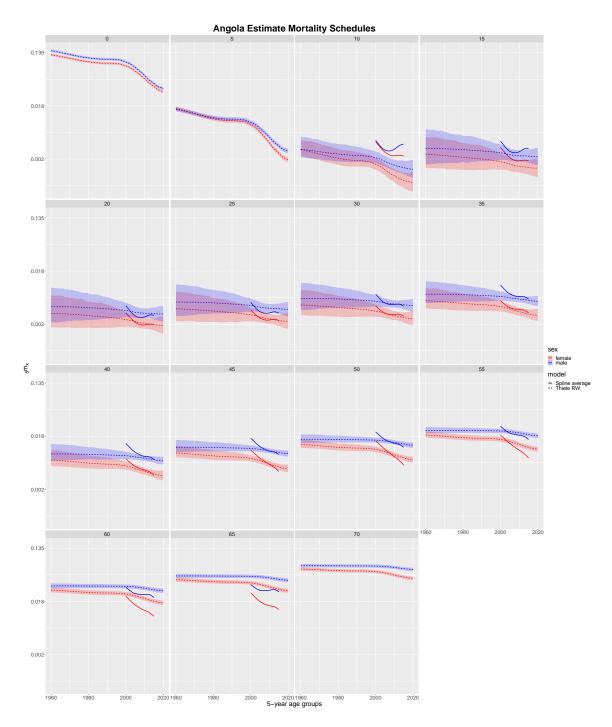


Figure 9: Mortality Schedules

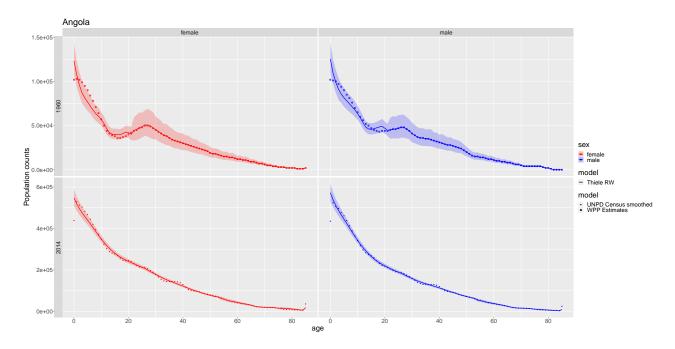


Figure 10: Population

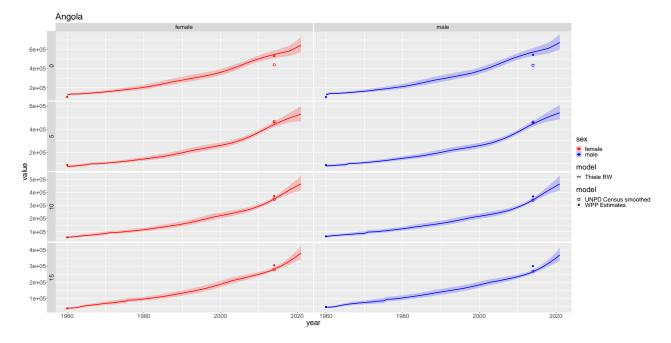


Figure 11: Population

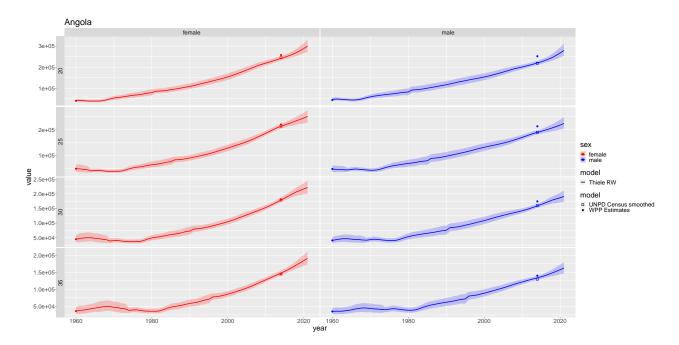


Figure 12: Population

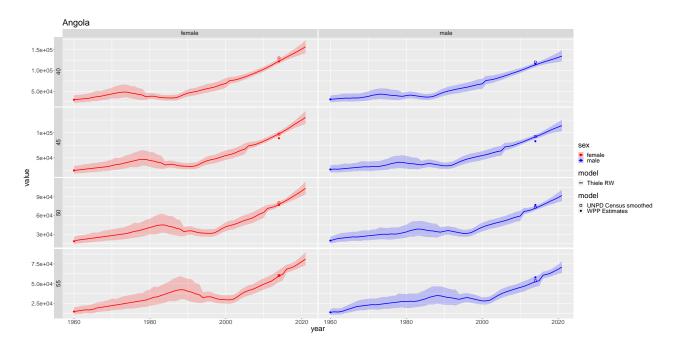
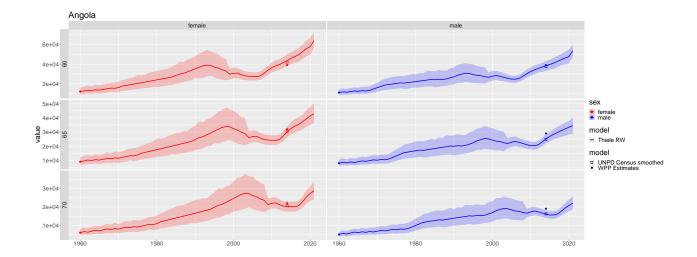


Figure 13: Population



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Figure 14: Population

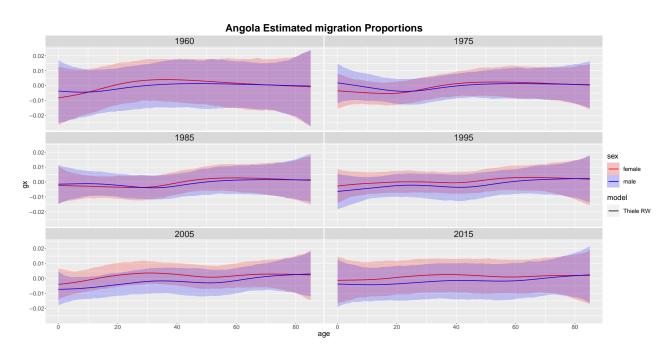


Figure 15: Migration

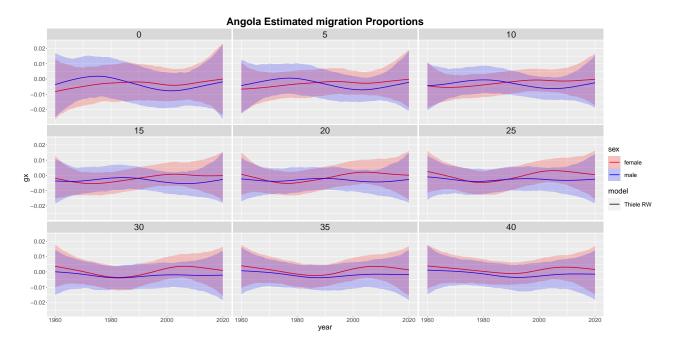


Figure 16: Migration

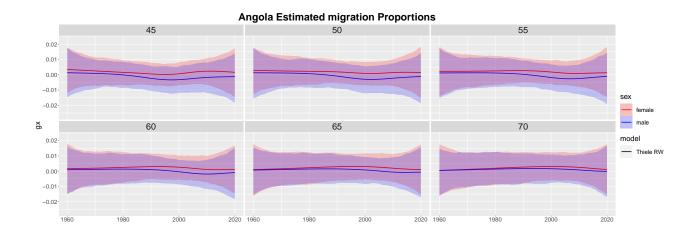


Figure 17: Migration

year

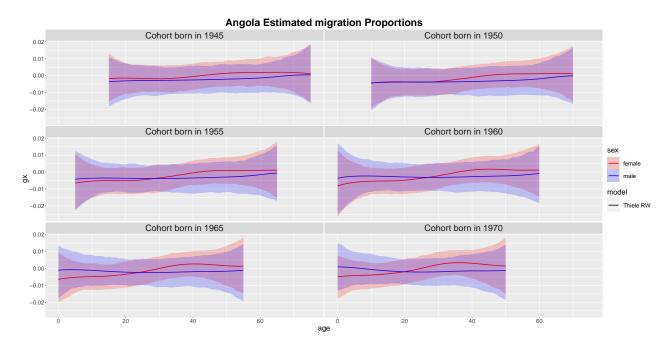


Figure 18: Migration

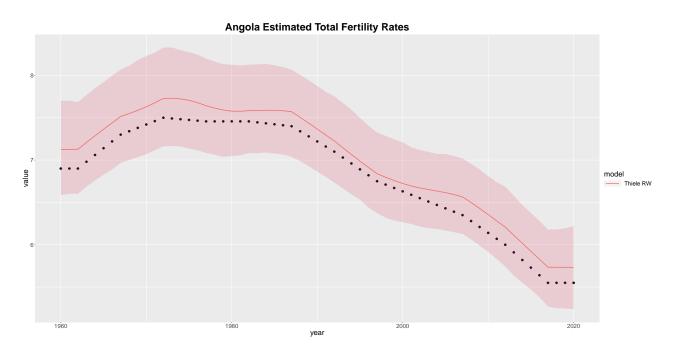


Figure 19: Total Fertility

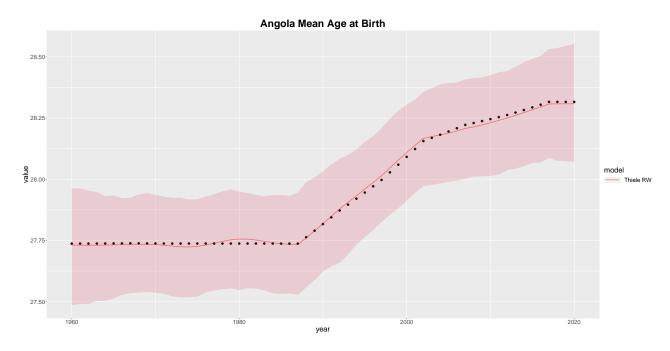


Figure 20: Mean age at births

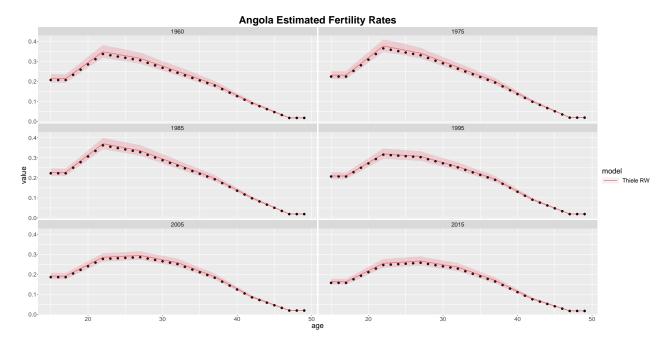


Figure 21: Fertility

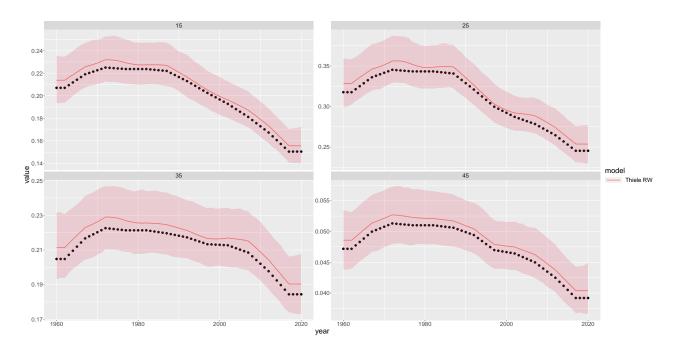


Figure 22: Fertility