

# Namibia

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

## # A tibble: 86 x 4
##   age `1991` `2001` `2011`
##   <dbl> <dbl> <dbl> <dbl>
## 1     0 24851. 23909. 32157
## 2     1 21976. 23883. 28690.
## 3     2 21726. 24603. 28220
## 4     3 21259. 25041. 27500.
## 5     4 21247. 25458. 27077
## 6     5 20771. 25430. 26048.
## 7     6 20065. 25264. 24803.
## 8     7 19362. 25259. 23924.
## 9     8 18677. 25248. 23376.
## 10    9 18357. 25517. 23940.
## # ... 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 `1991` `2001` `2011`
##   <dbl> <dbl> <dbl> <dbl>
## 1     0 24861. 23791. 31976
## 2     1 21883. 24016. 28452.
## 3     2 21600. 24629. 28036.
## 4     3 21144. 24966. 27342.
## 5     4 21149. 25281. 26940.
## 6     5 20679. 25177. 25925.
```

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## 7      6 19965. 24978. 24627.
## 8      7 19163. 24795. 23618.
## 9      8 18386. 24574. 23047
## 10     9 17972. 24684. 23621.
## # ... 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)"
```

##	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log_tau2_logpop	log
##	4.058091843	6.394115287	3.953349700	6.313143455	
##	log_dispersion	log_dispersion	log_lambda_tp	tp_slope	
##	0.963206410	0.806961282	4.987042100	-0.008254039	
##	log_lambda_phi	log_lambda_psi	log_lambda_A	log_lambda_B	log_lambda
##	11.258333578	11.285317144	11.146353424	8.258029760	
##	log_lambda_epsilon				
##	4.794306643				

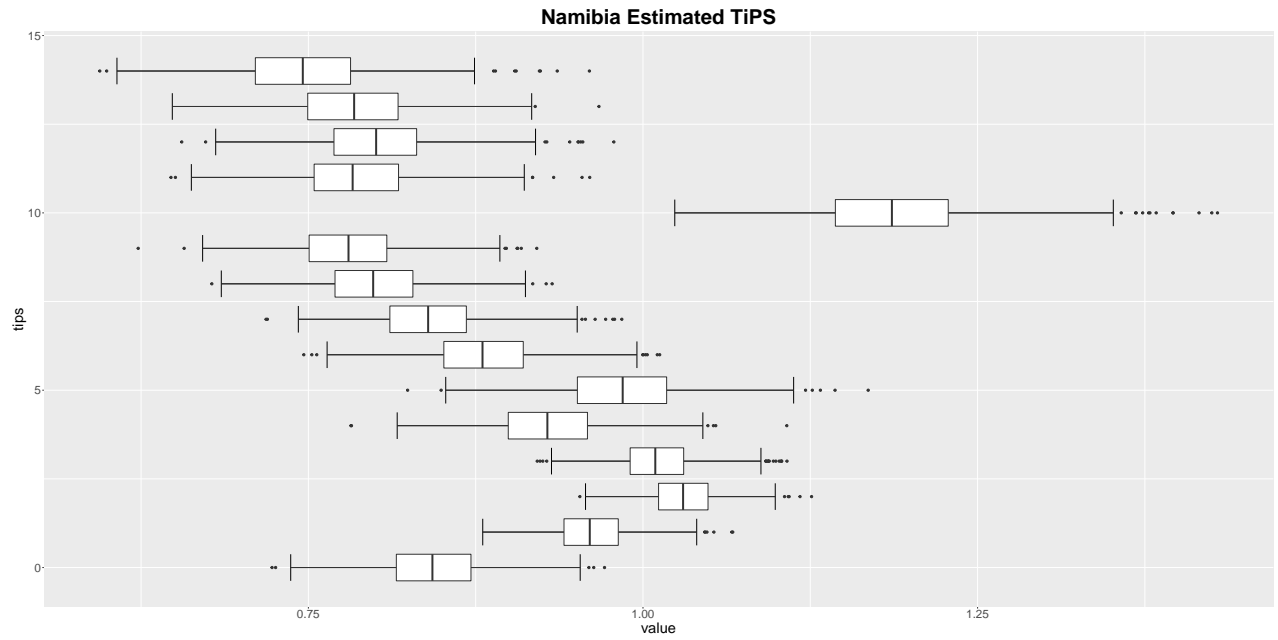


Figure 1: Estimated TiPS

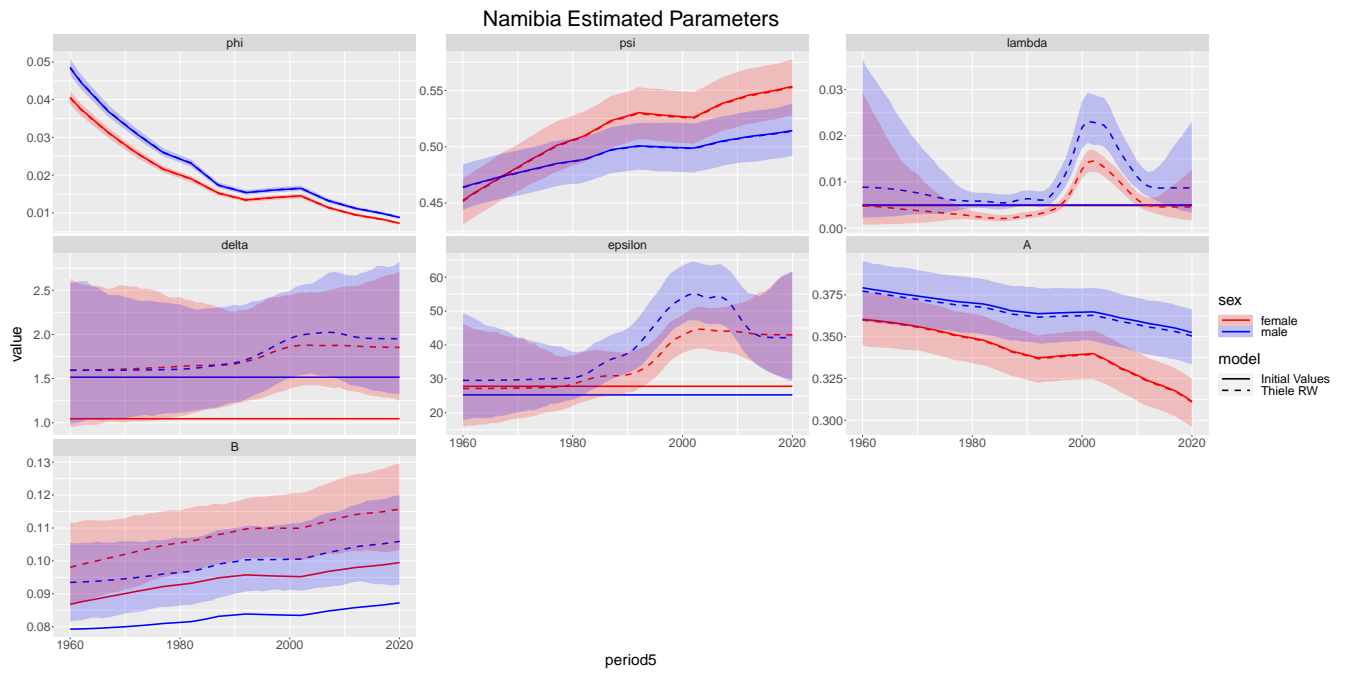


Figure 2: Estimated parameters

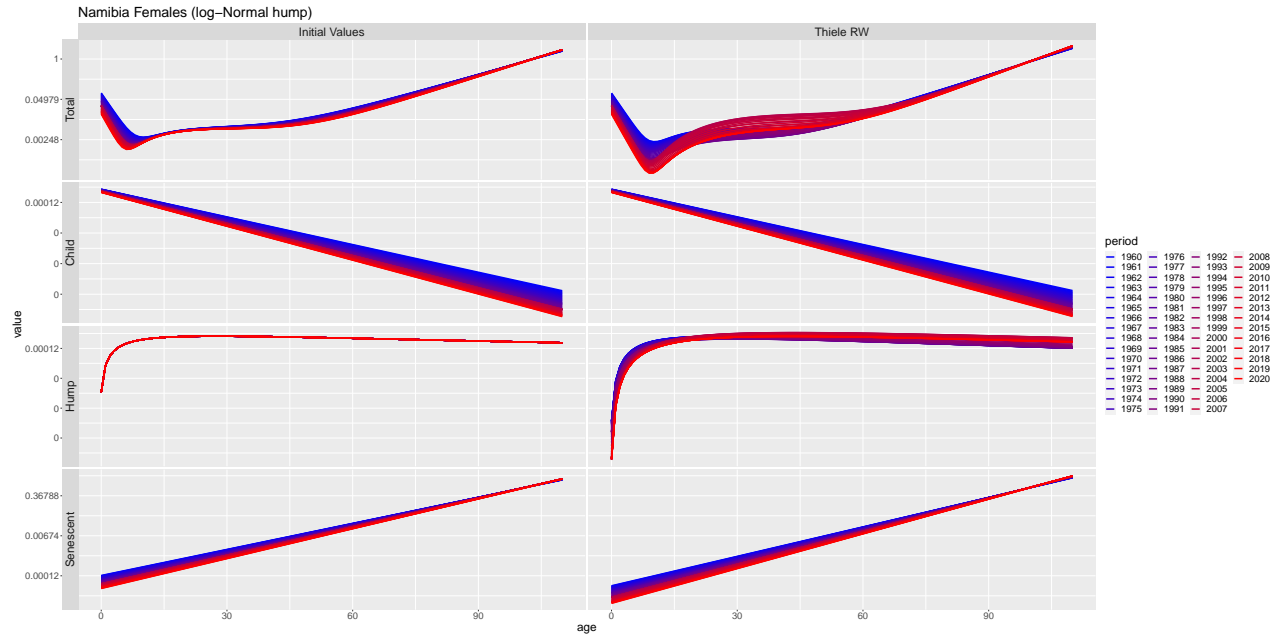


Figure 3: Thiele Decomposed

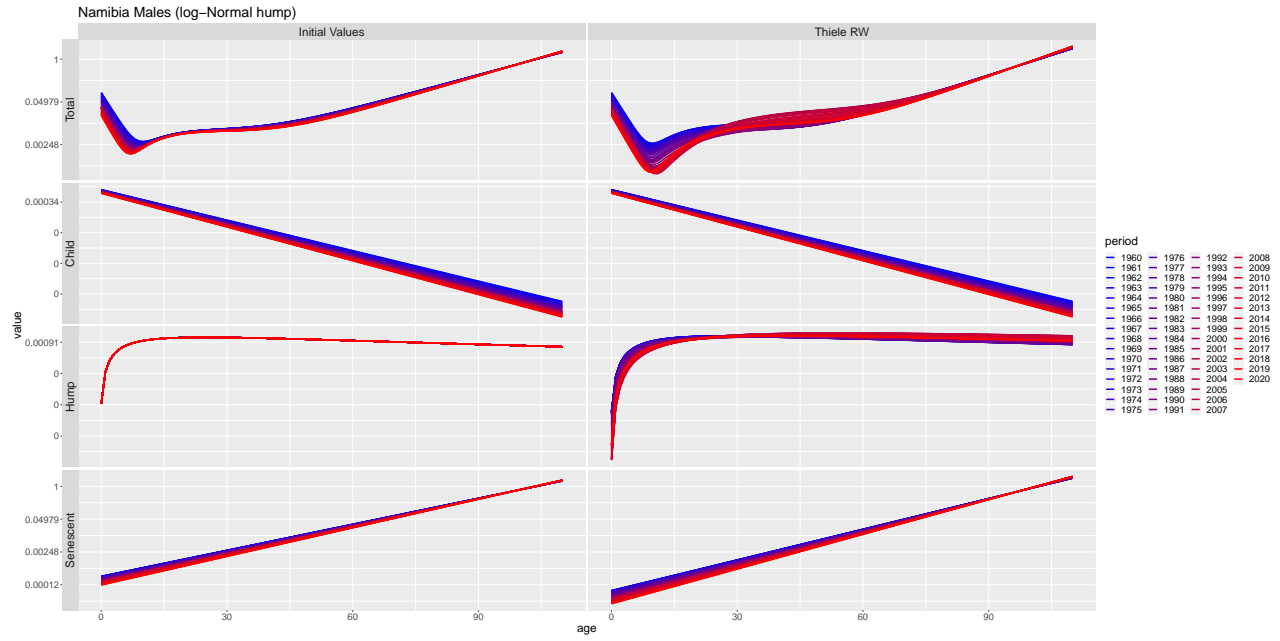


Figure 4: Thiele Decomposed

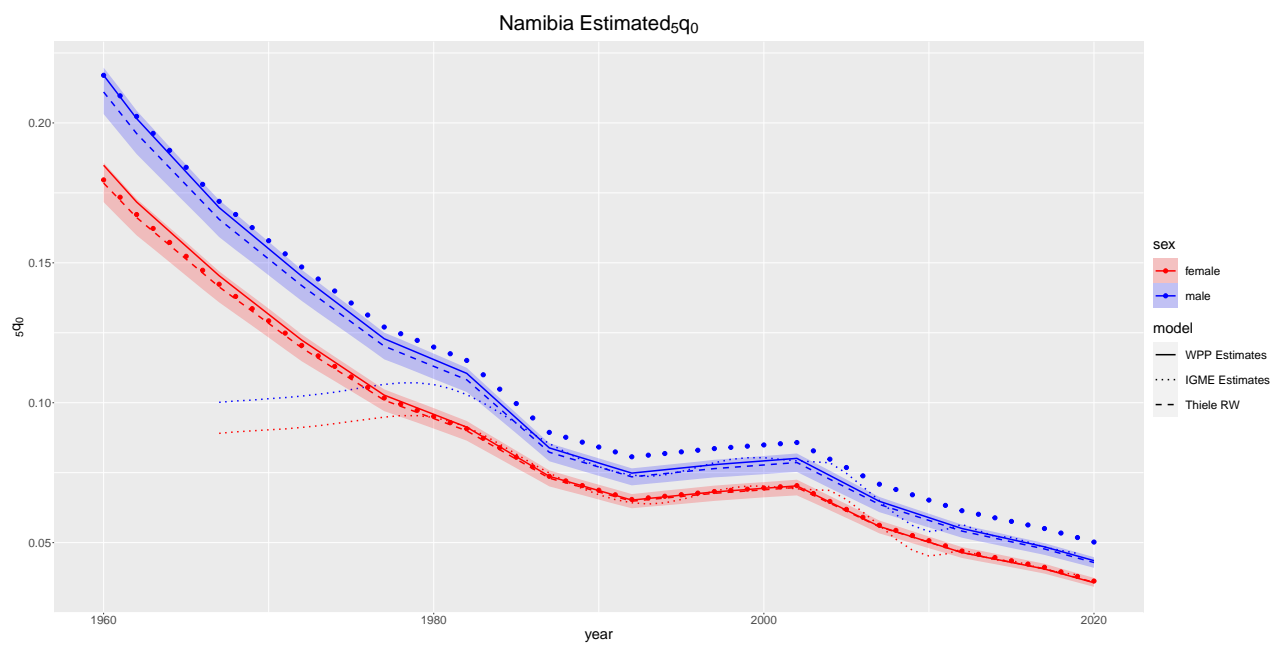


Figure 5: Estimated  ${}_5q_0$

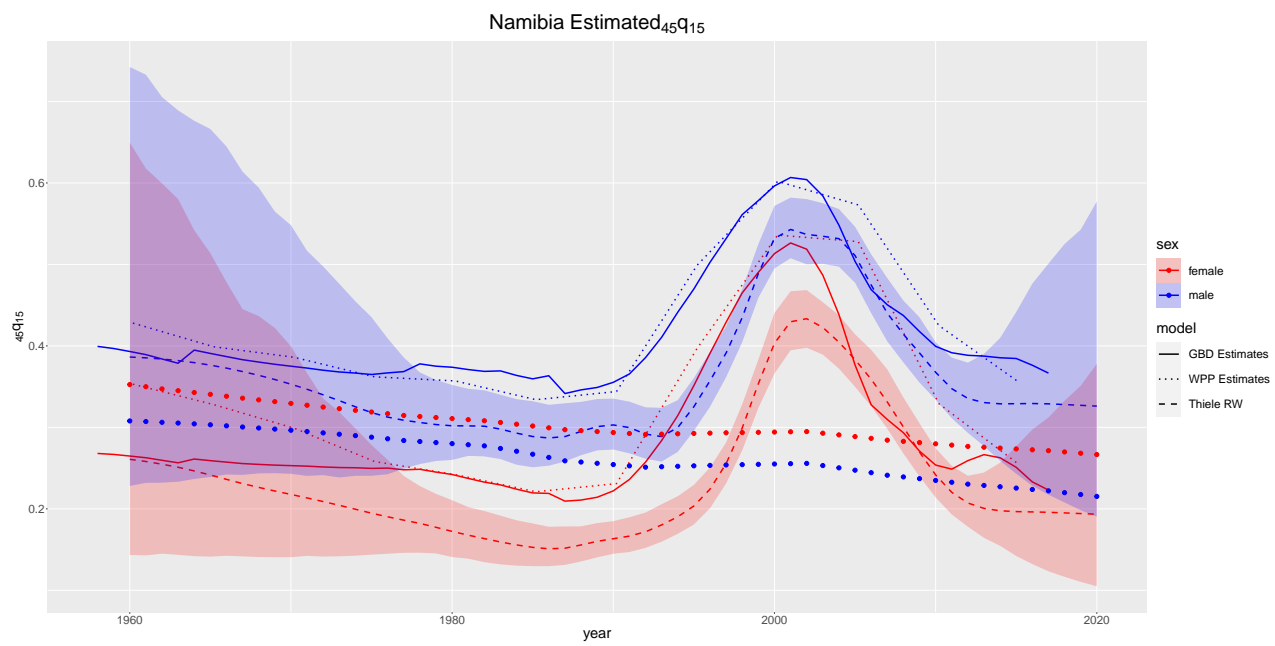


Figure 6: Estimated  ${}_{45}q_{15}$

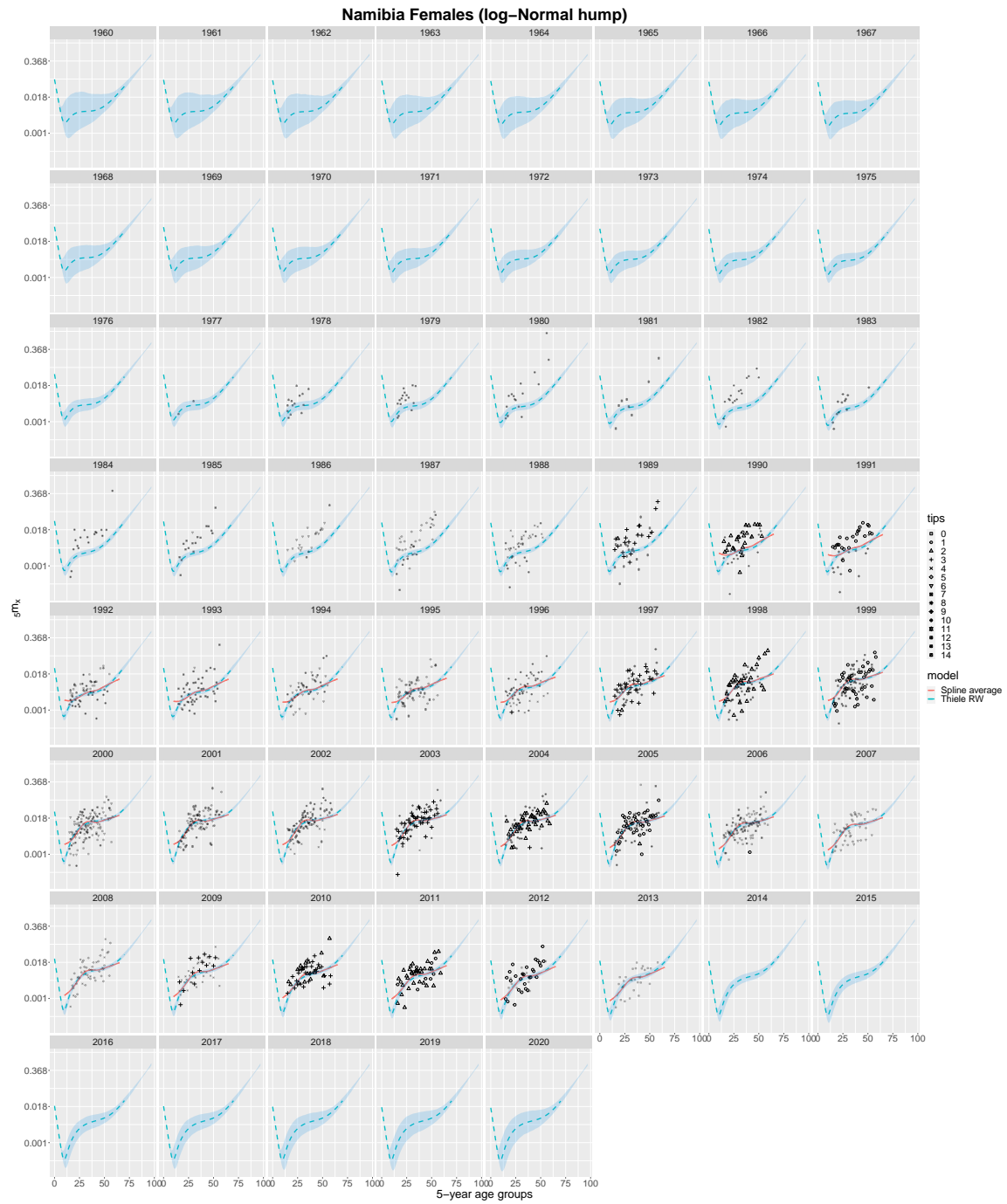


Figure 7: Mortality Schedules

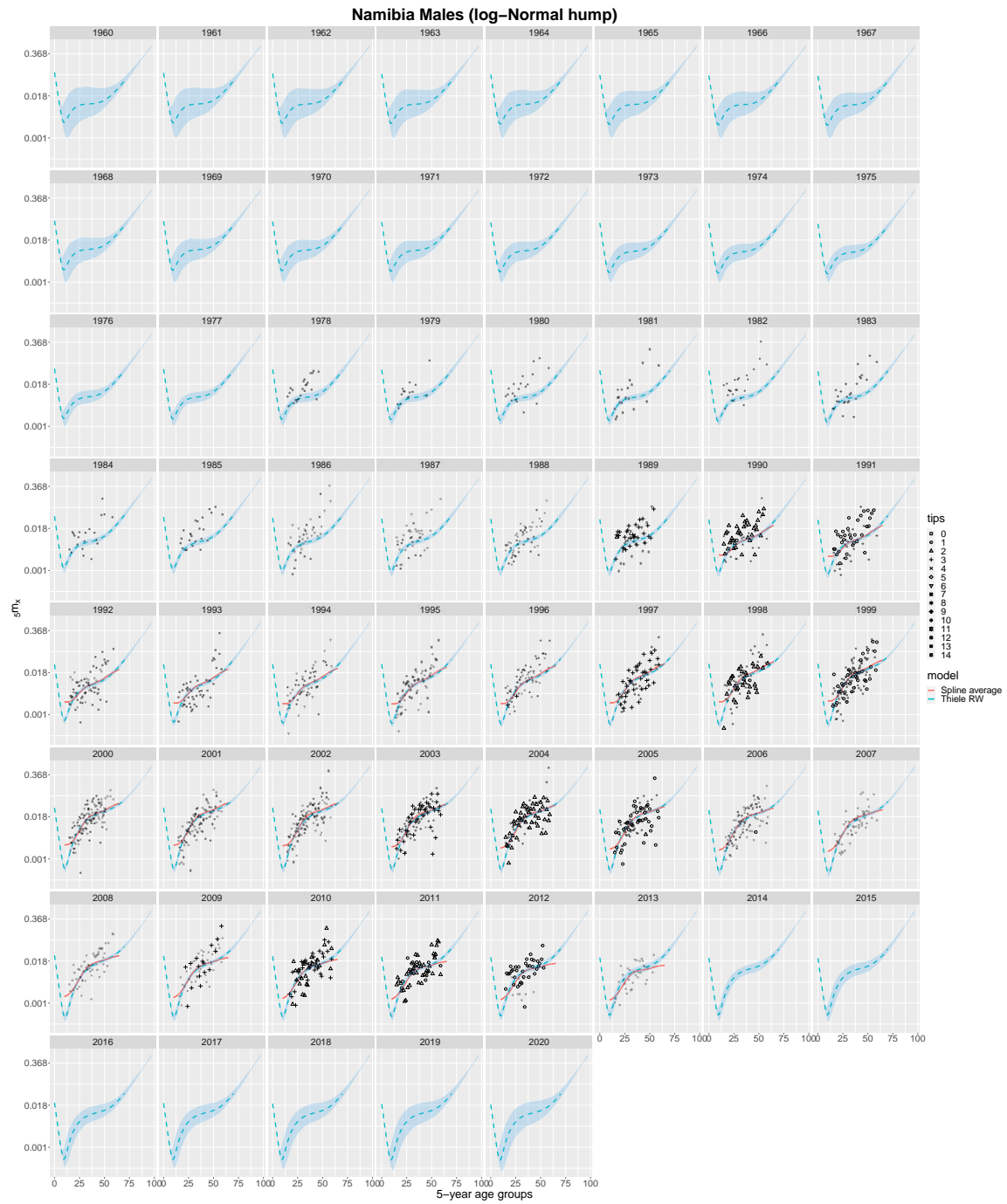


Figure 8: Mortality Schedules

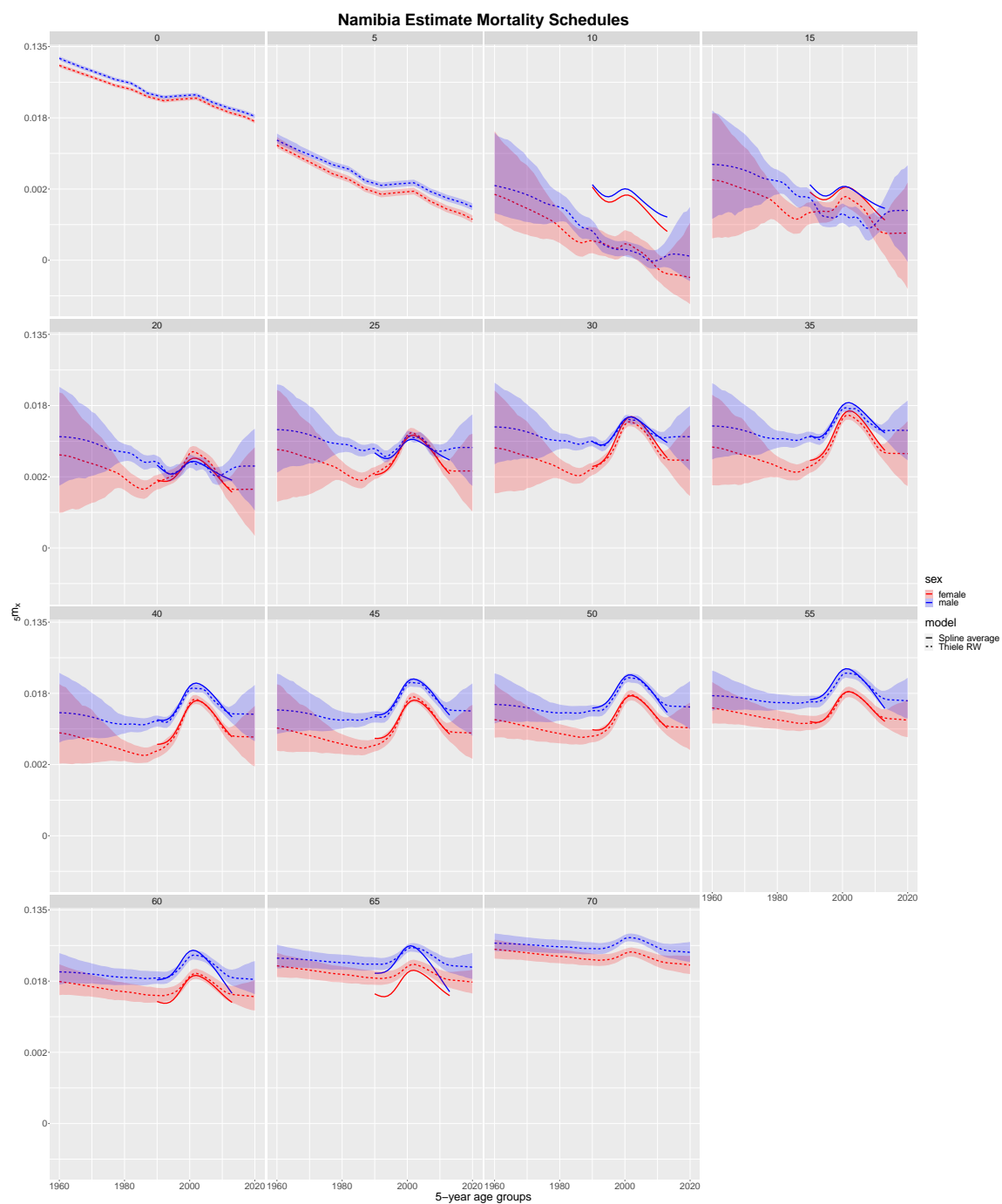


Figure 9: Mortality Schedules



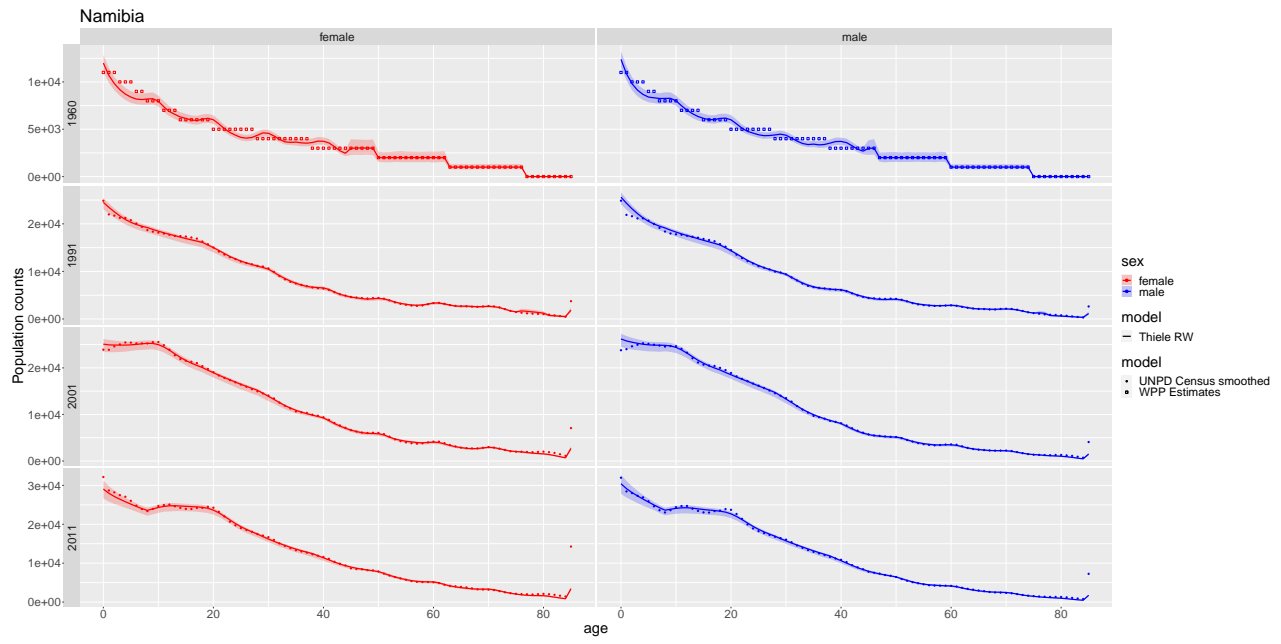


Figure 10: Population

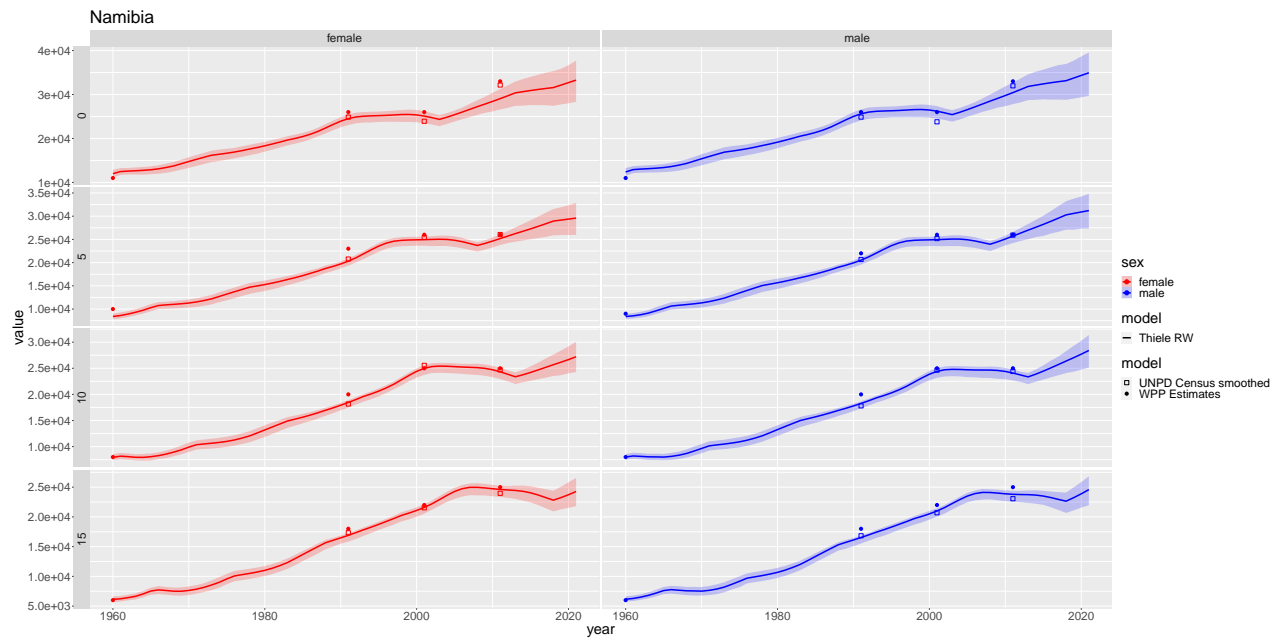


Figure 11: Population

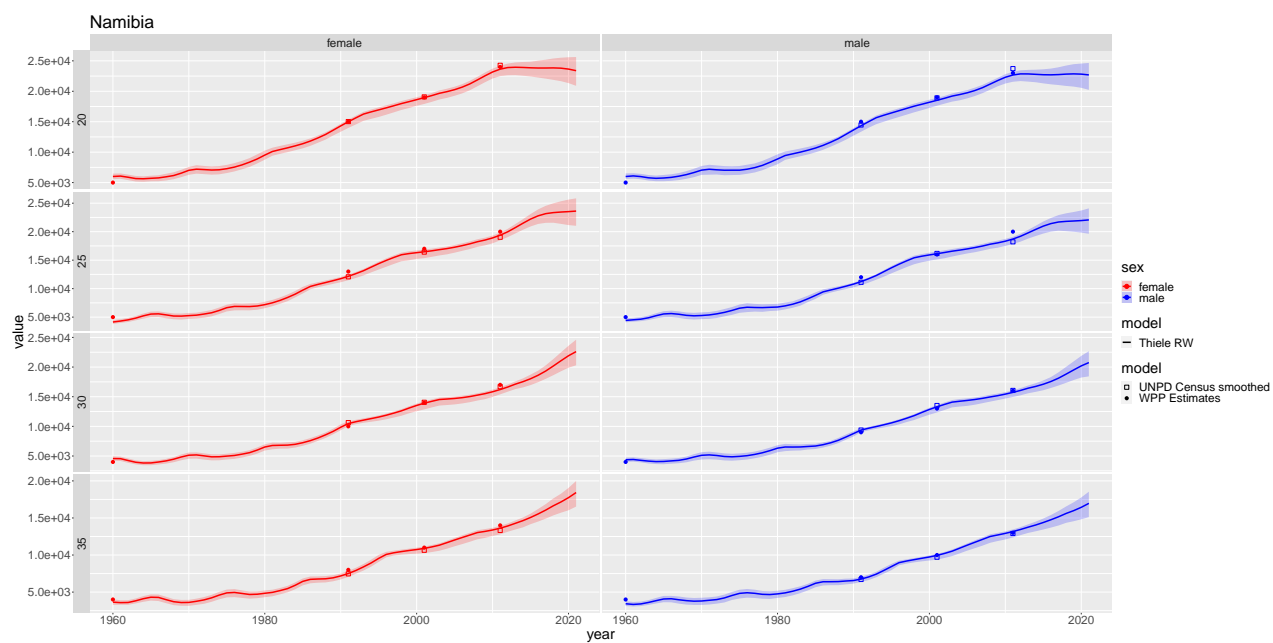


Figure 12: Population

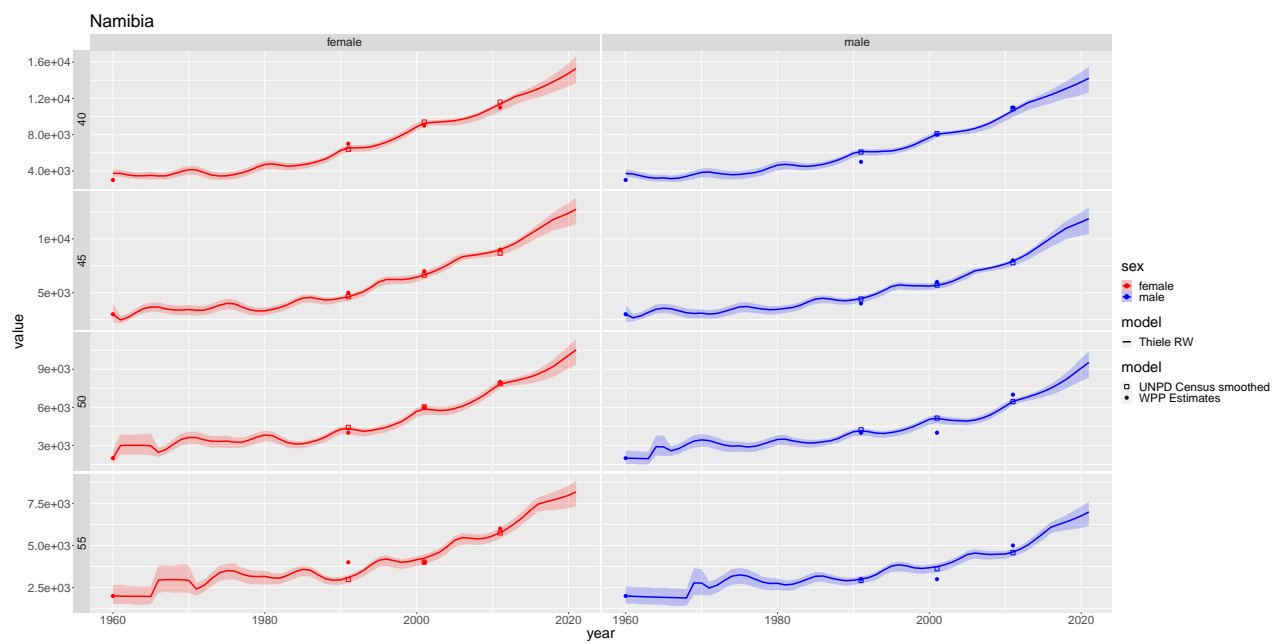


Figure 13: Population

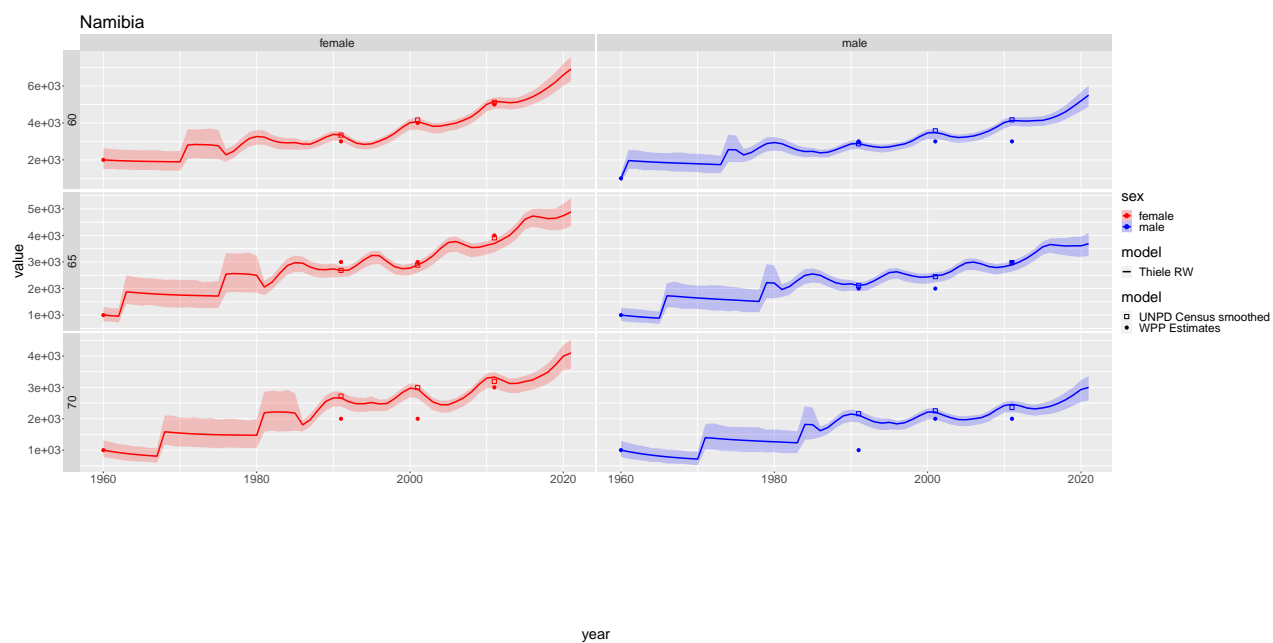


Figure 14: Population

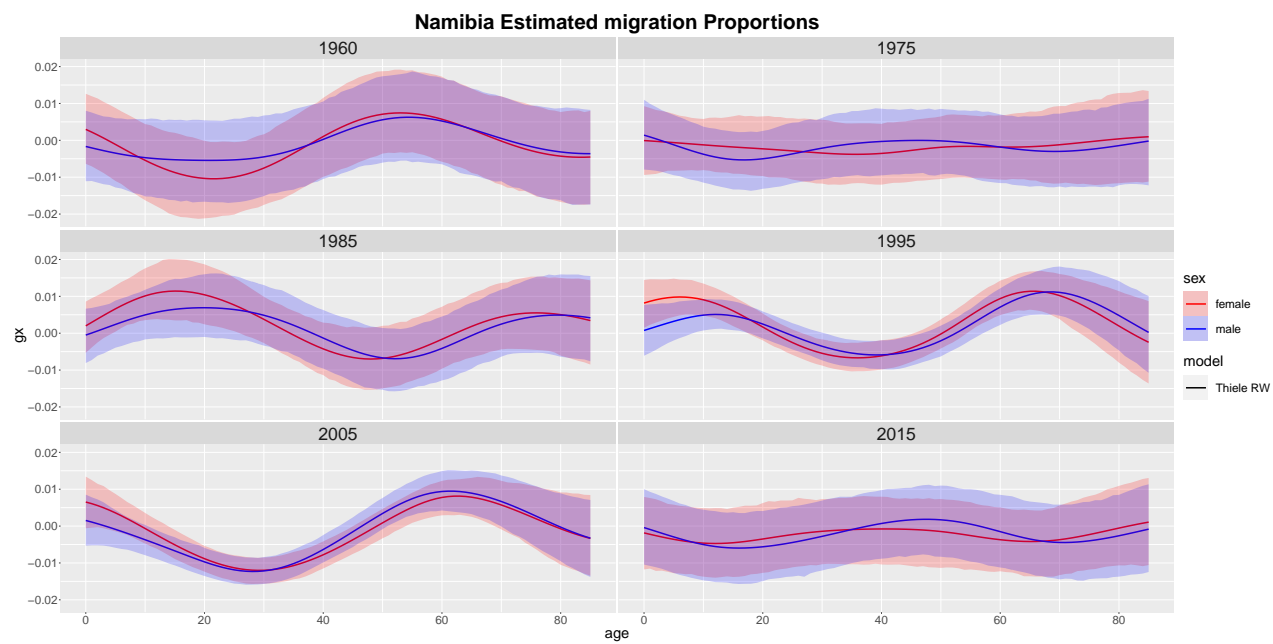


Figure 15: Migration

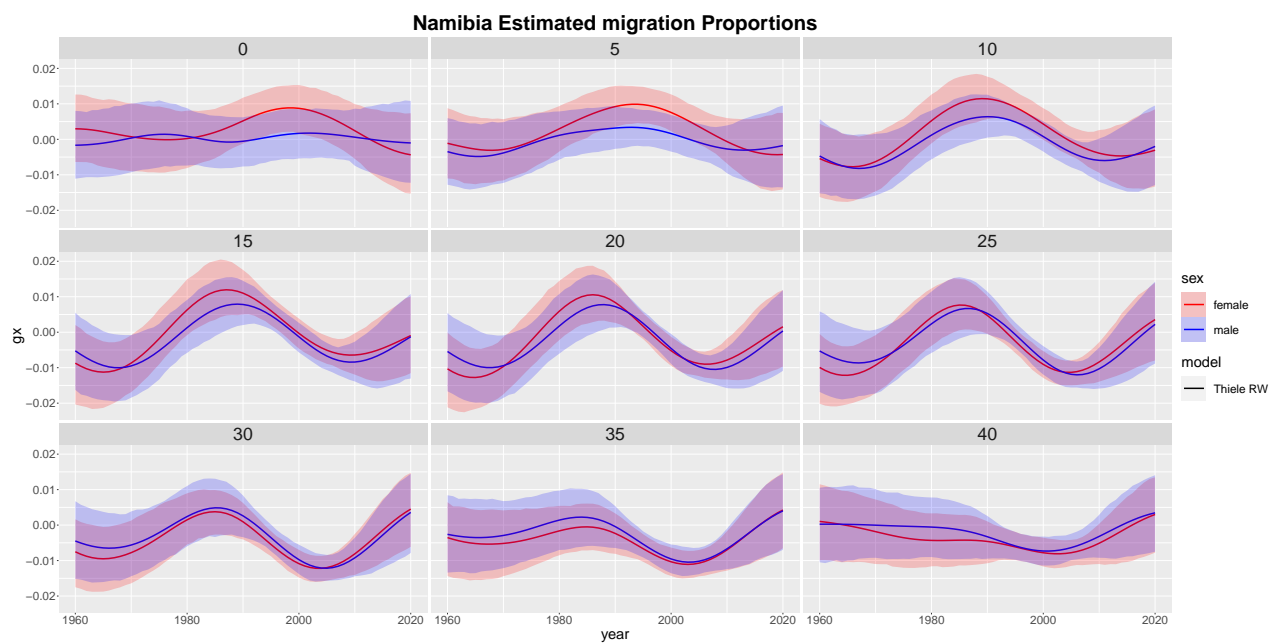


Figure 16: Migration

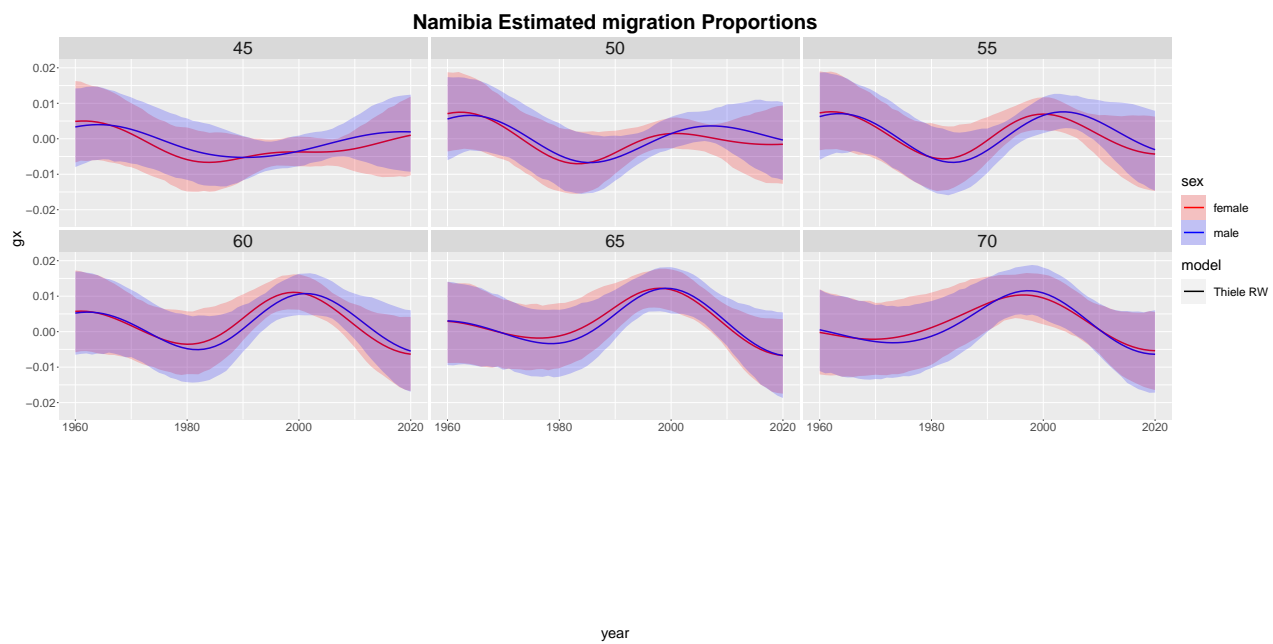


Figure 17: Migration

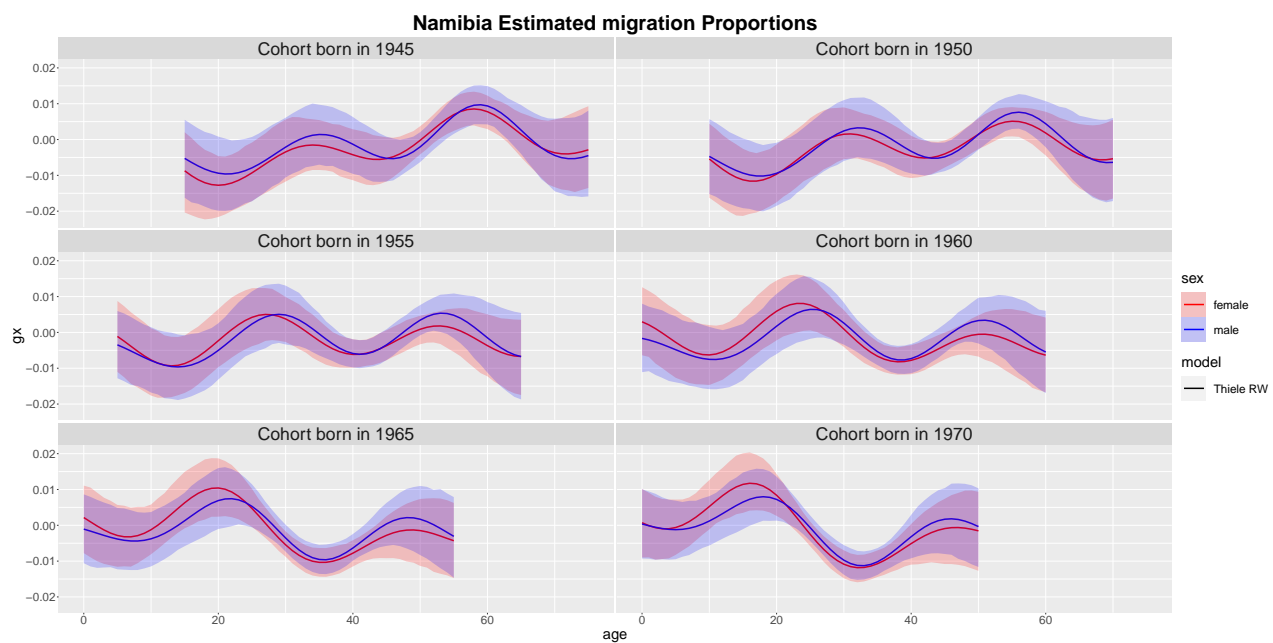


Figure 18: Migration

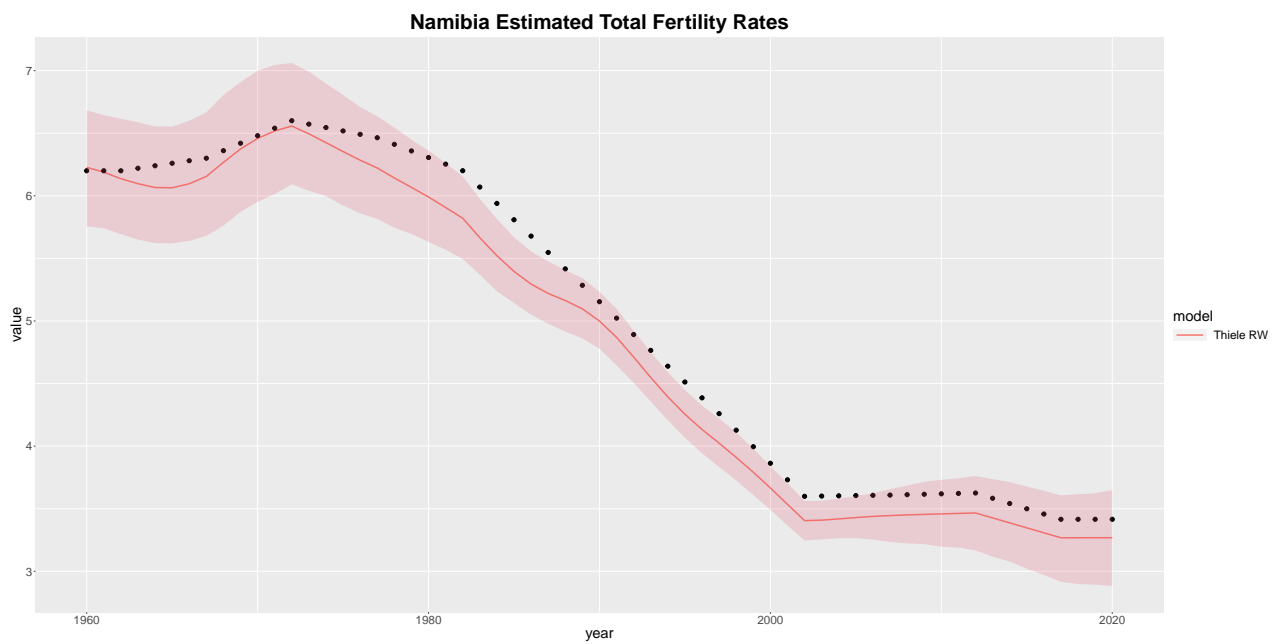


Figure 19: Total Fertility

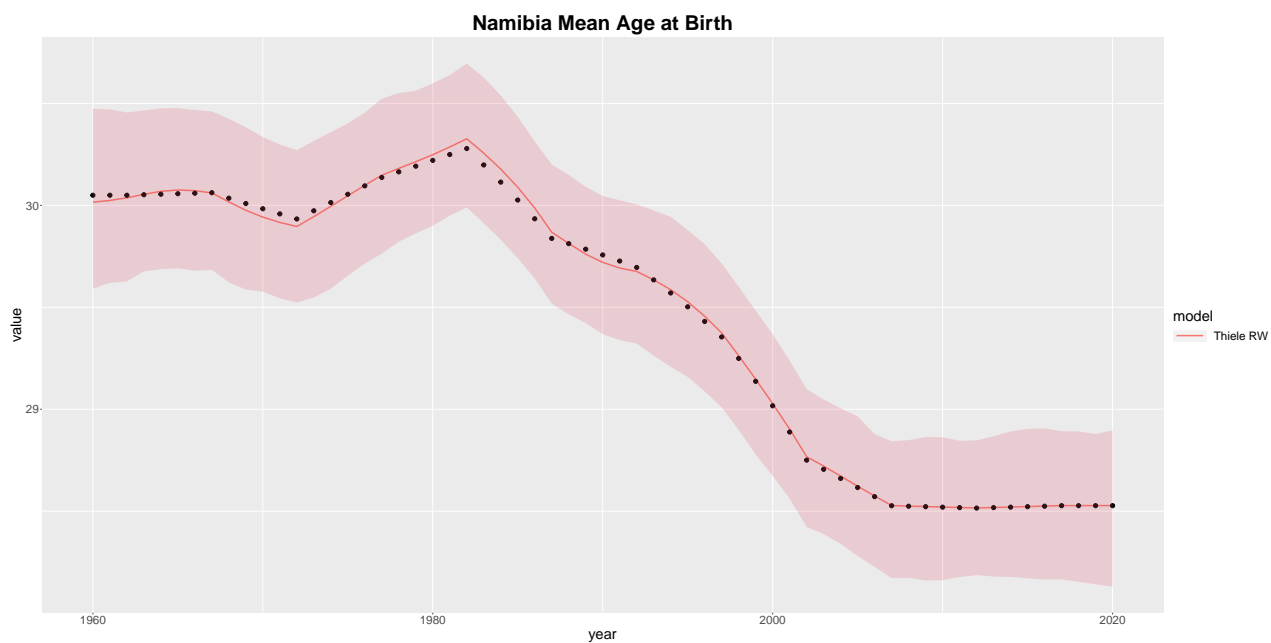


Figure 20: Mean age at births

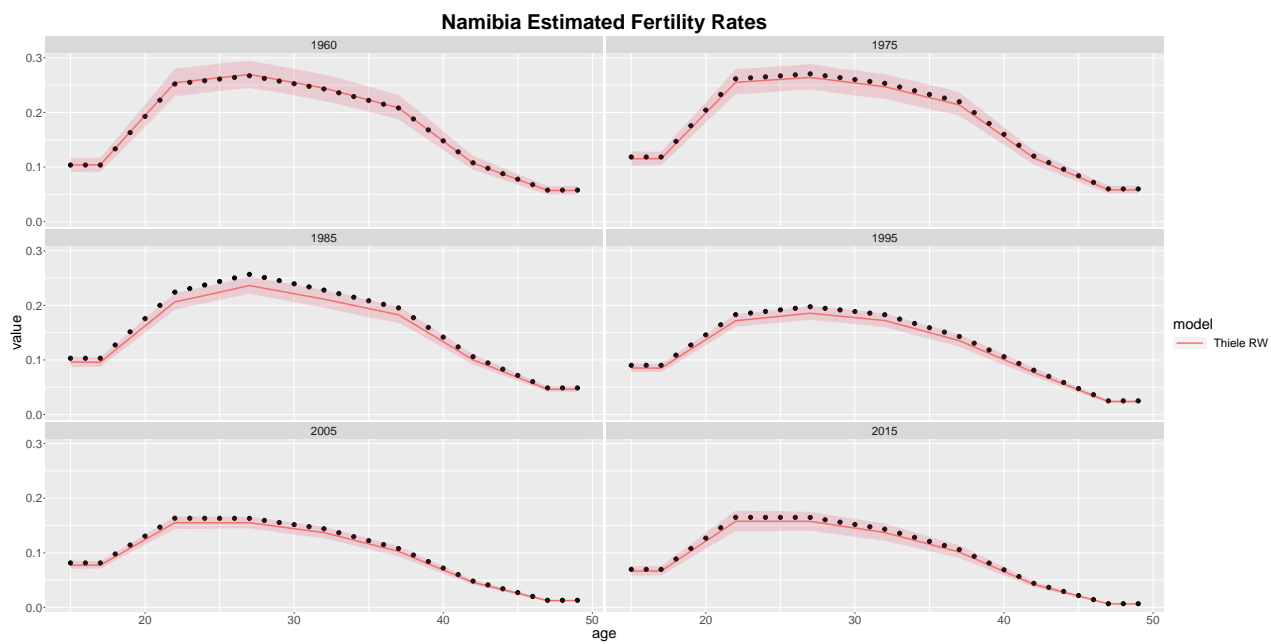


Figure 21: Fertility

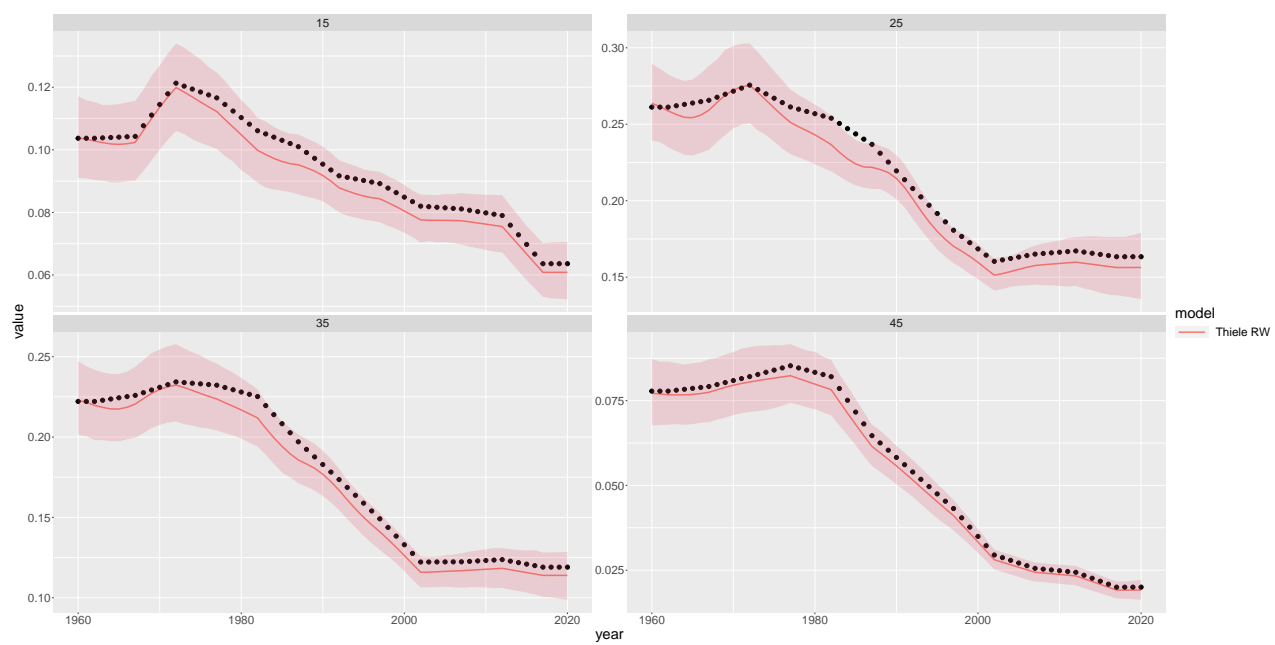


Figure 22: Fertility