

# Country Summary: Zimbabwe

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## 1 Intro

These estimates are created using the BB8 model with Admin 2 estimates using a RW1xICAR interaction model with area-specific random slopes.

Zimbabwe has 10 Admin 1 areas and 60 Admin 2 areas.

All uncertainty intervals displayed in subsequent figures are 95% intervals.

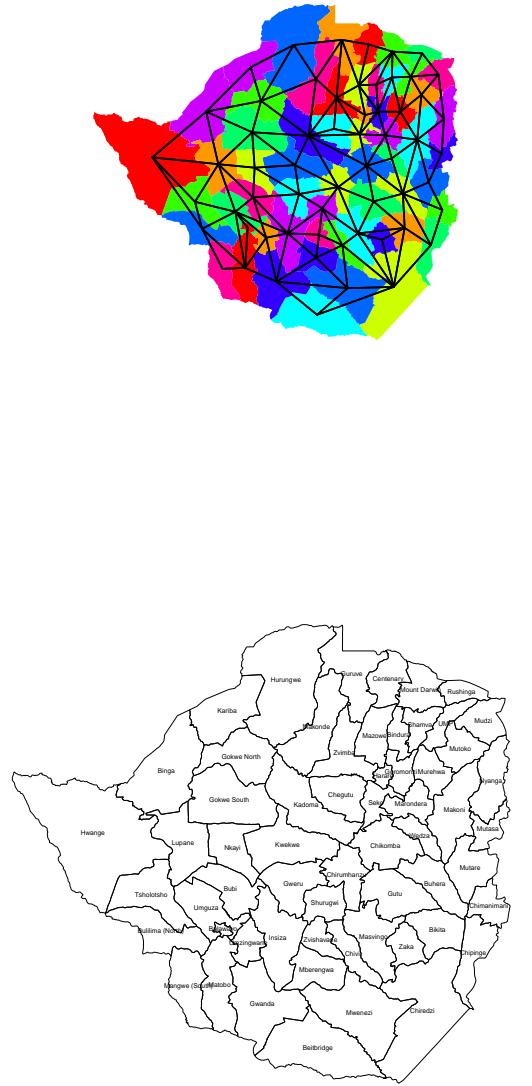


Figure 1: Top: The neighborhood structure of Admin 2 areas. Bottom: The names of Admin 2 areas.

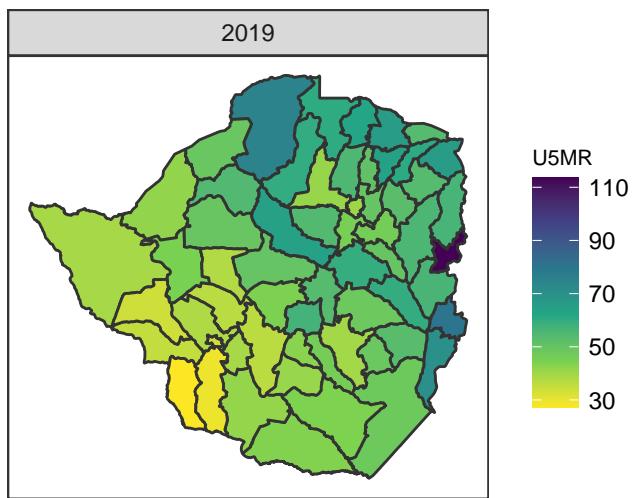


Figure 2: Median estimates of U5MR (deaths per 1000 children) in 2019.

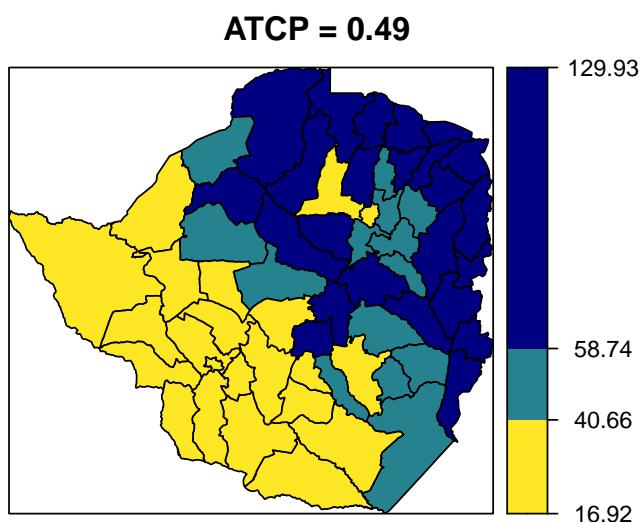
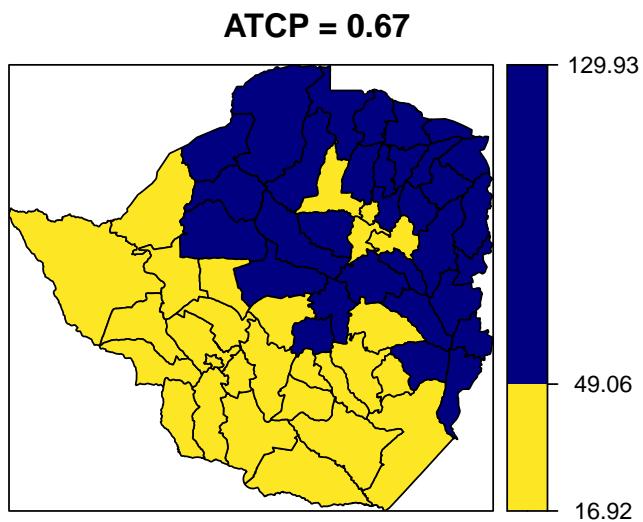


Figure 3: Expression of uncertainty of U5MR (deaths per 1000 children) based on the average true classification probability (ATCP) in 2019.

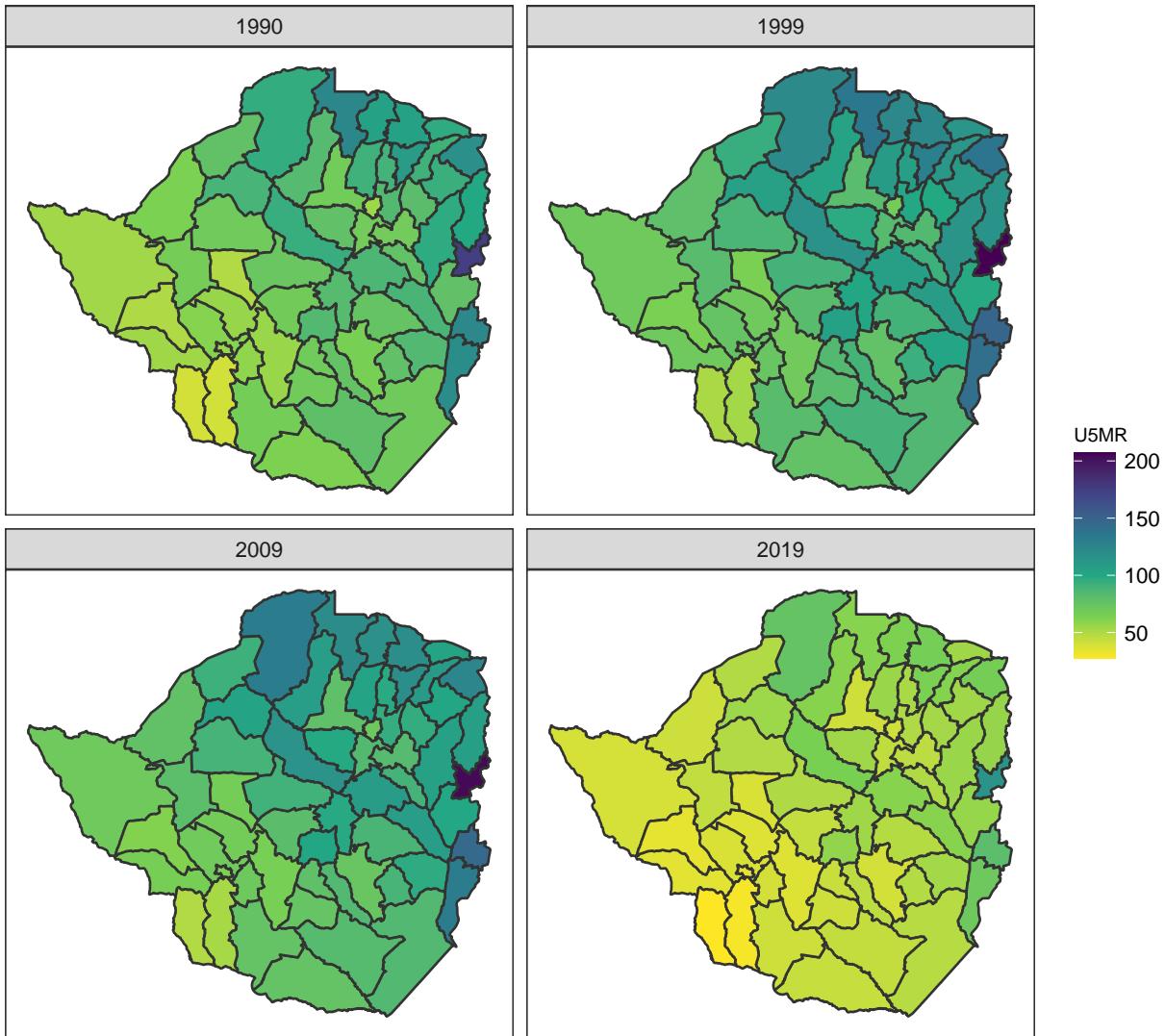
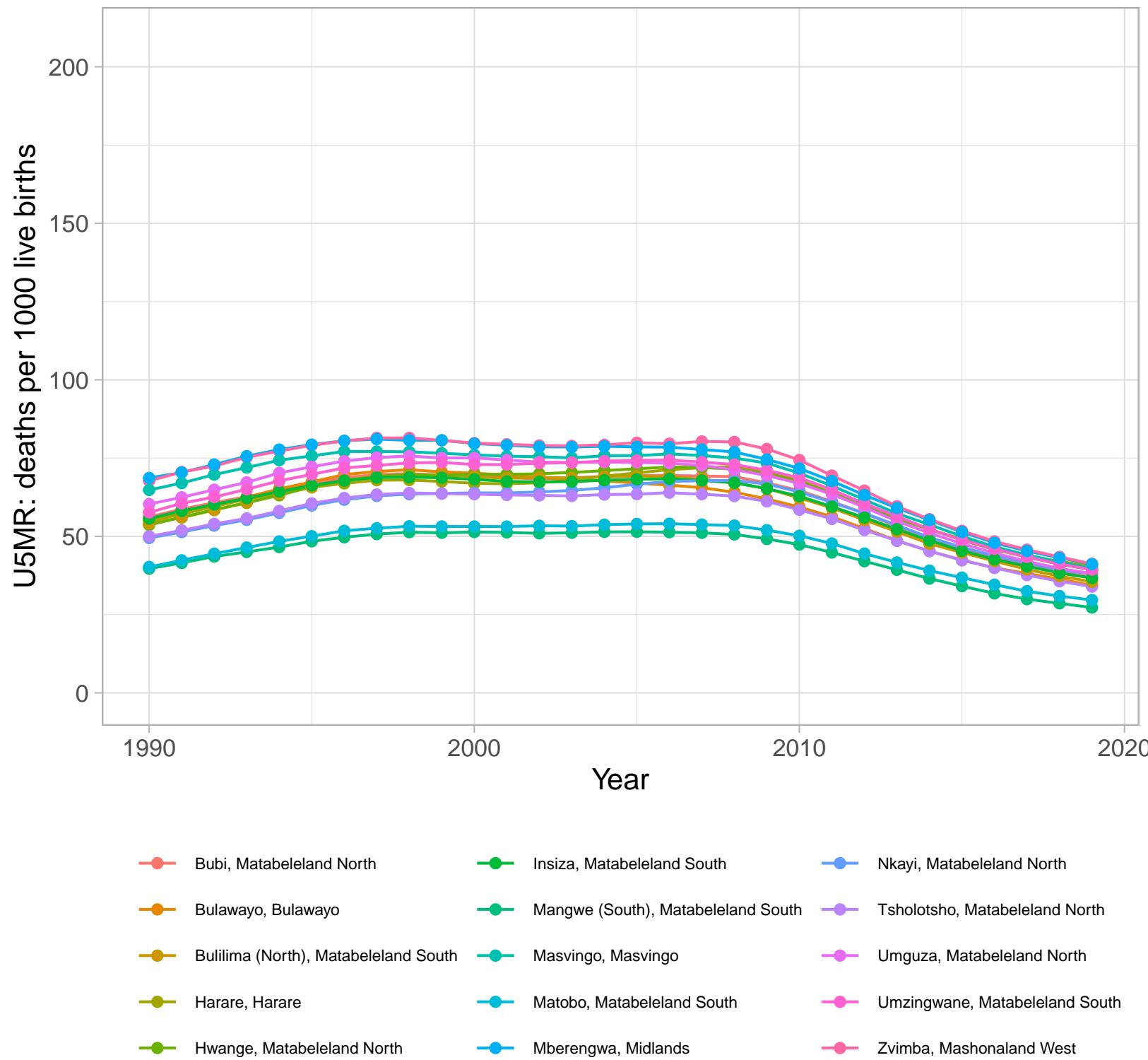
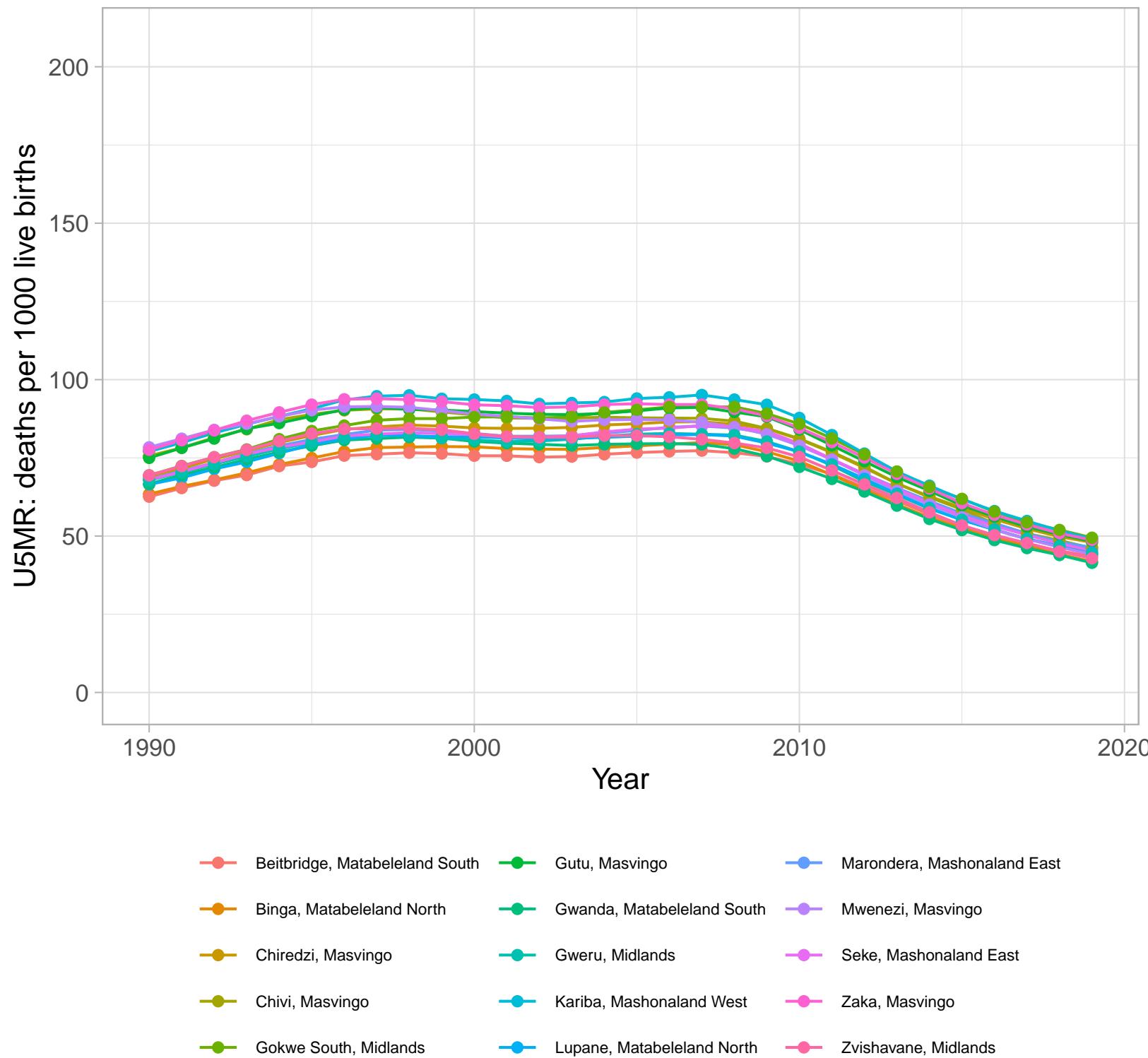


Figure 4: Median estimates for selected years.

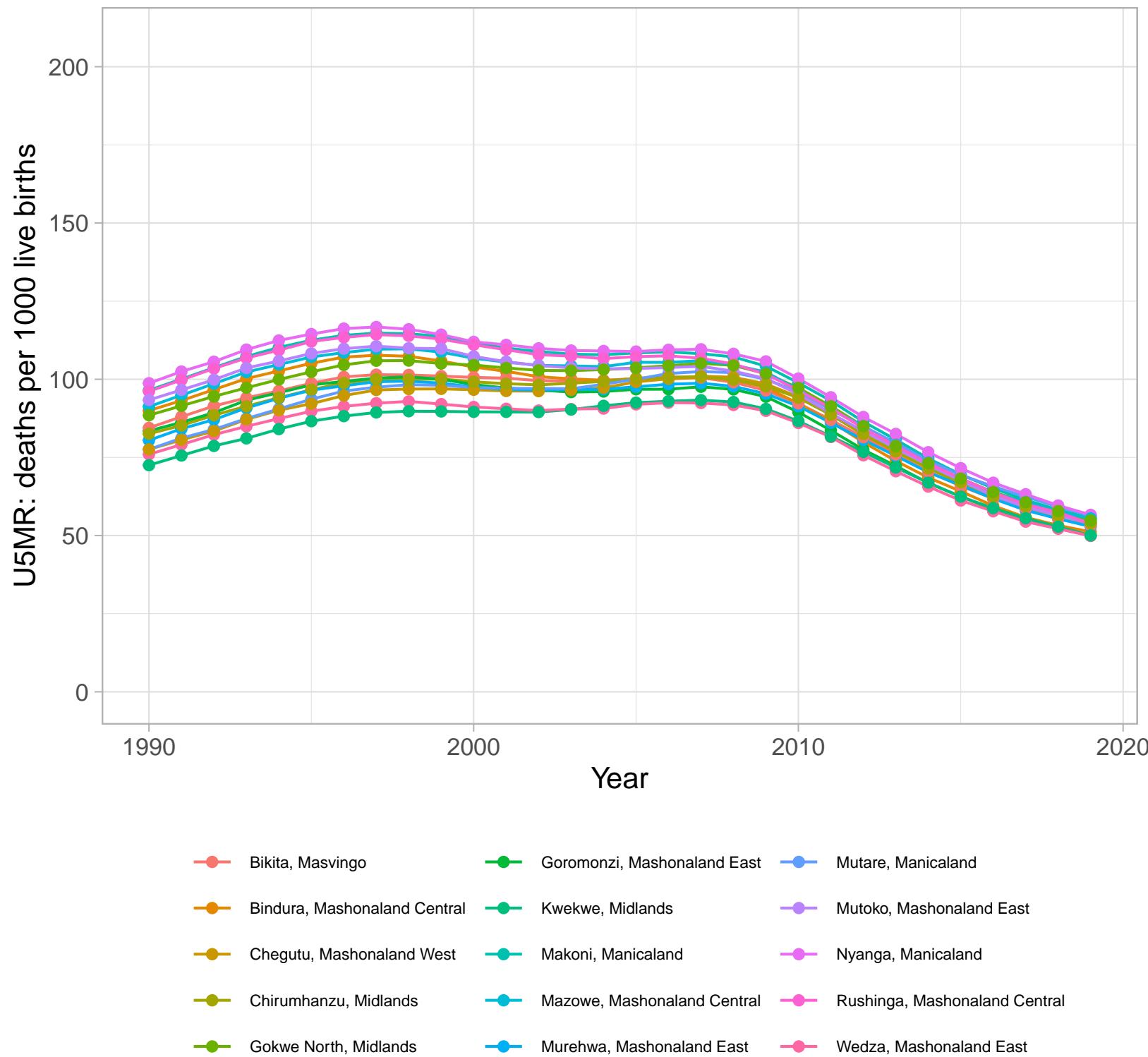
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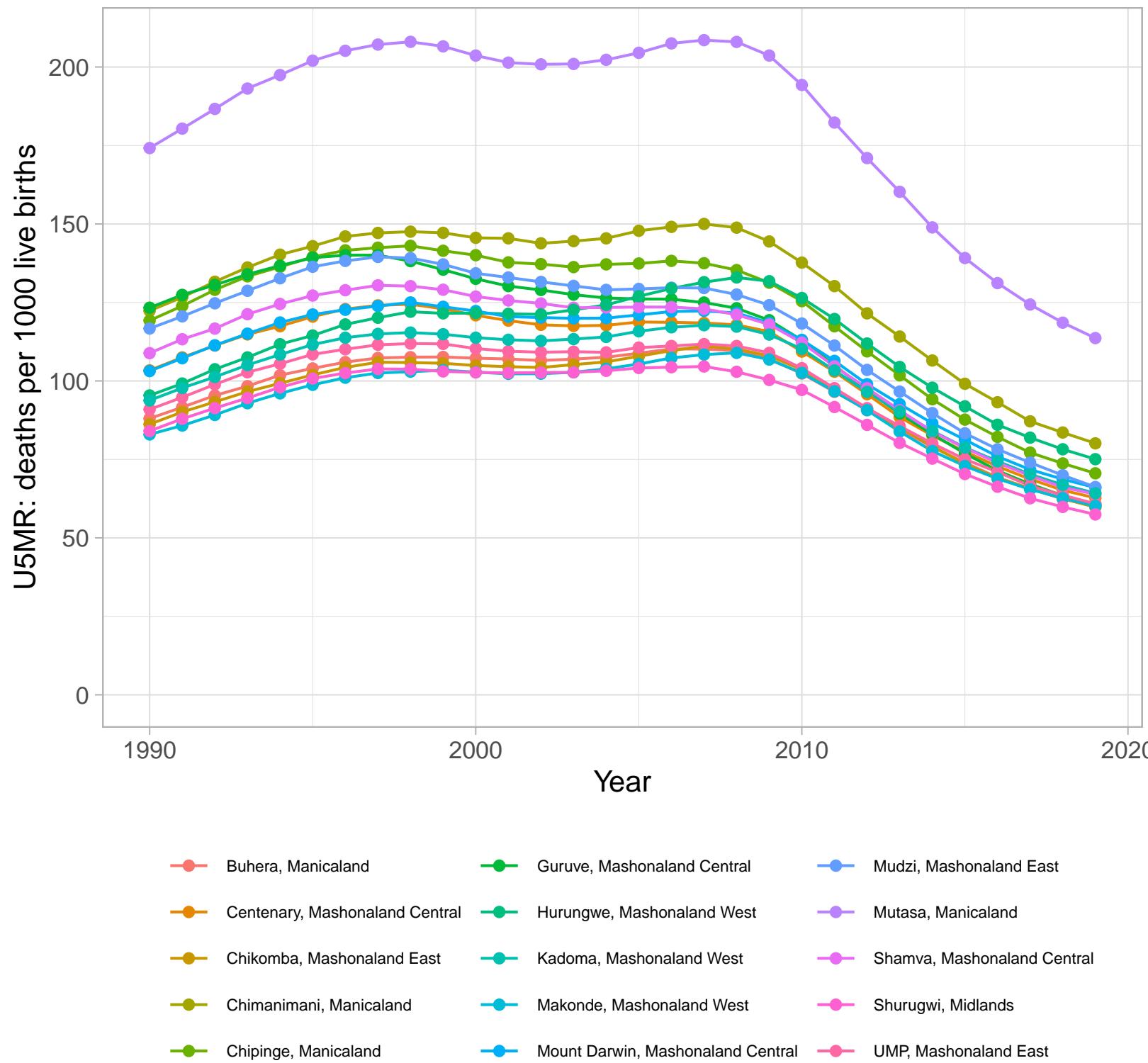
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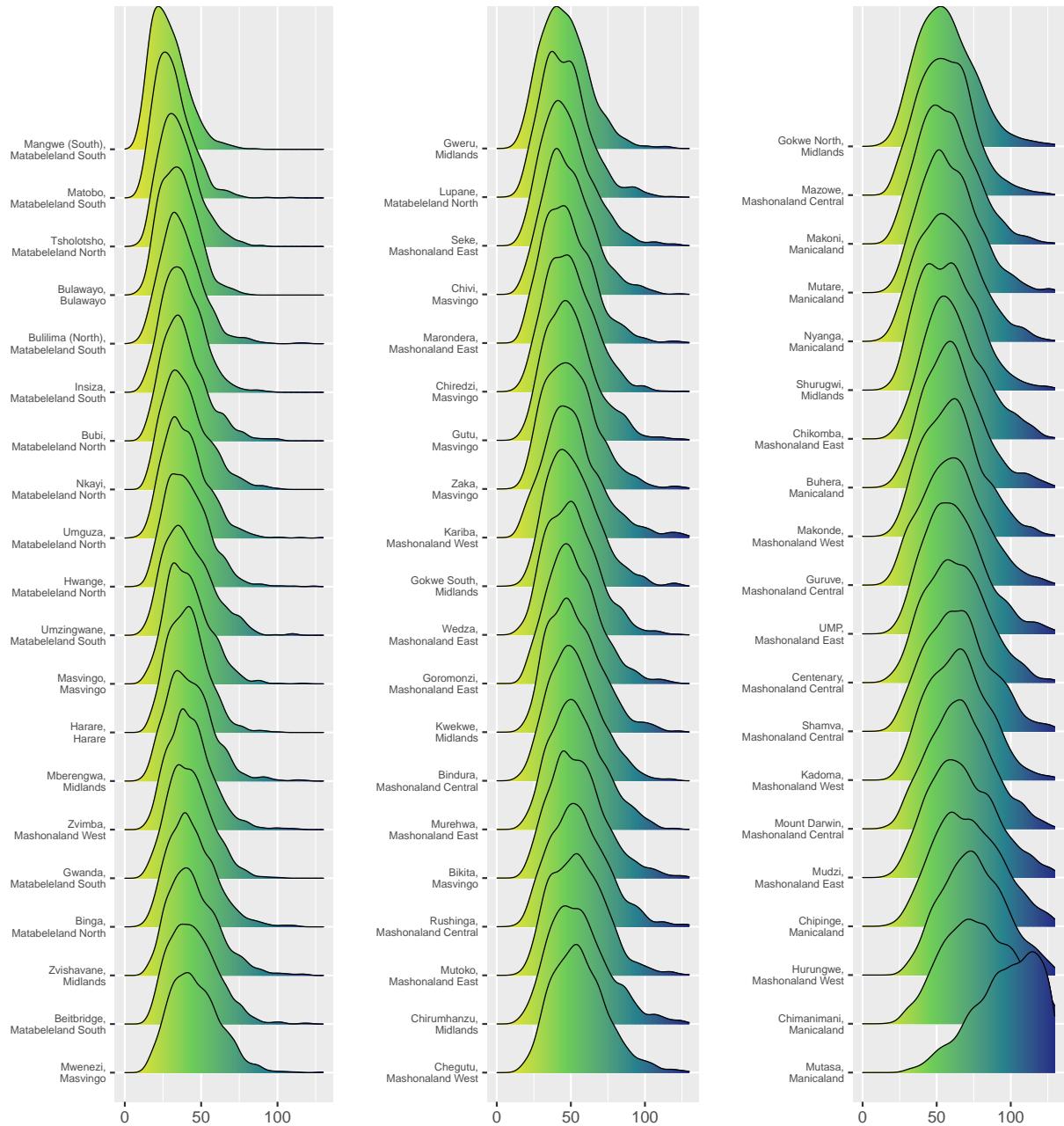


Figure 5: Posterior distributions of U5MR (deaths per 1000 children) in 2019. Areas are ordered by median estimated U5MR in 2019.

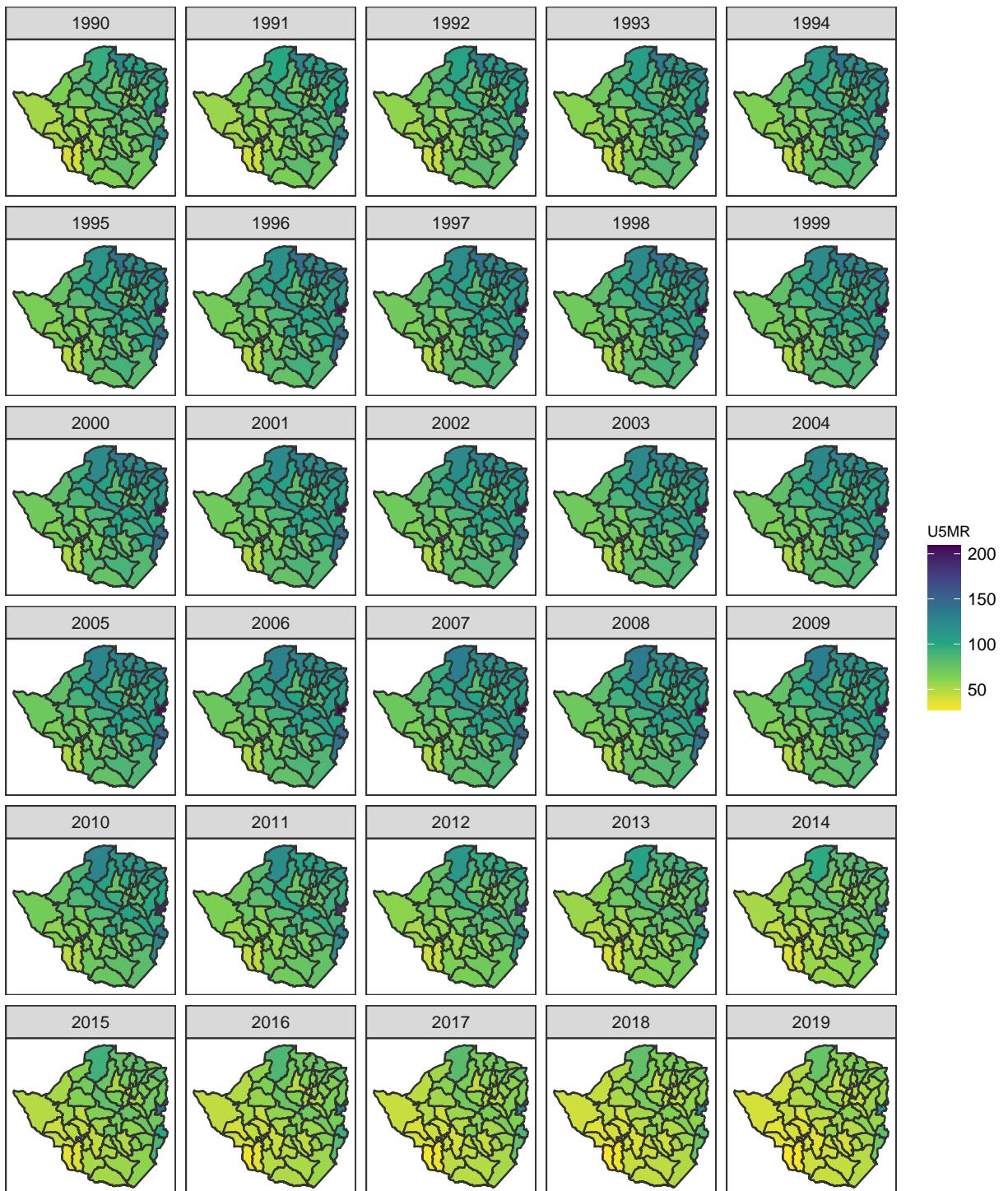


Figure 6: Posterior medians of U5MR (deaths per 1000 births) by Admin 2 area and year.

## 2 National Survey Data

Survey	Urban	Rural	Total
1999	76	145	221
2010-11	165	228	393
2015	166	234	400

Table 1: Number of clusters by urban/rural designation by survey for Zimbabwe.

Age	No. Deaths	No. Agemonths
0	533	20082
1-11	485	206752
12-23	203	209862
24-35	108	196184
36-47	46	182592
48-59	42	169121

Table 2: Numbers of agemonths and deaths by age for DHS 2015.

Age	No. Deaths	No. Agemonths
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Table 3: Numbers of agemonths and deaths by age for DHS 2010-11.

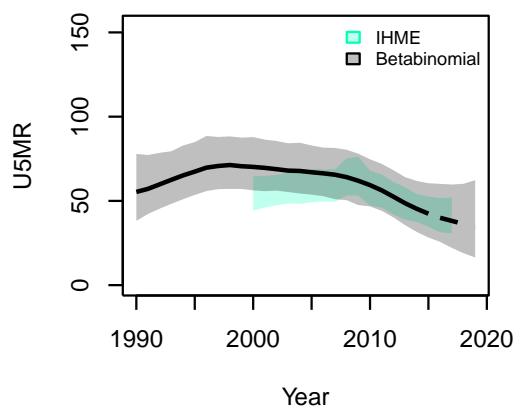
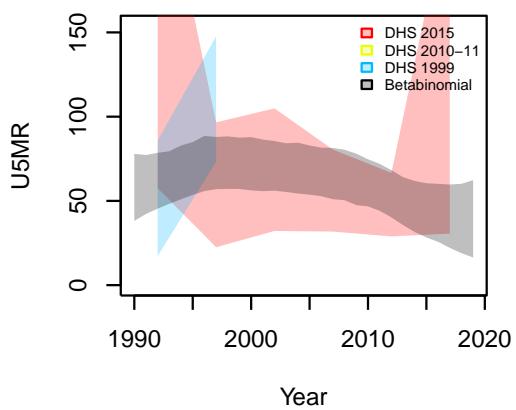
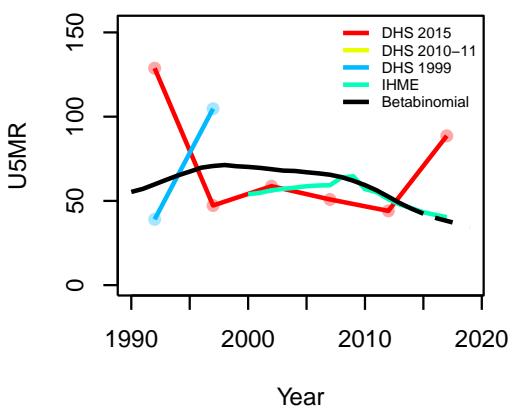
Age	No. Deaths	No. Agemonths
0	175	6626
1-11	210	69342
12-23	93	72346
24-35	45	69892
36-47	24	68291
48-59	18	66980

Table 4: Numbers of agemonths and deaths by age for DHS 1999.

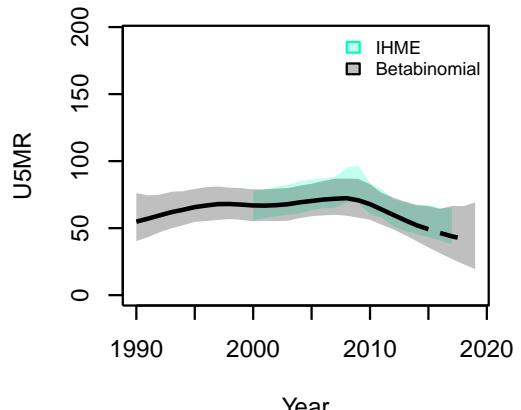
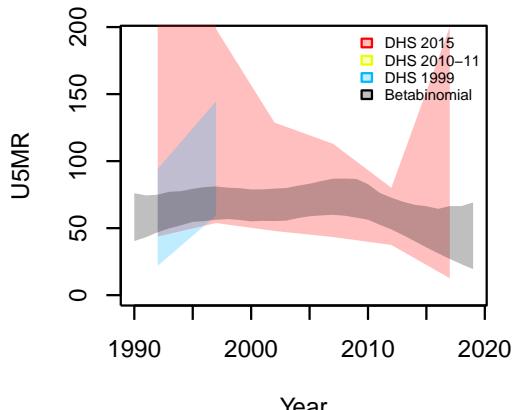
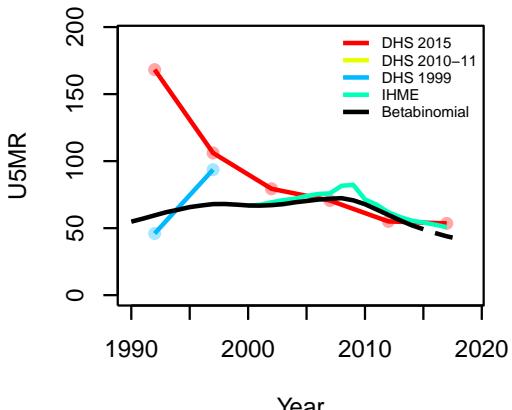
### 3 Admin 2 Figures

The following few pages have estimates by area across time with underlying data included. There are six admin areas per page. Colored lines with circular points and light grey uncertainty bands are 5-year survey-weighted estimates of U5MR for years 1990–1994 up to 2015–2019 depending on survey timing. For a survey that ends in the middle of a 5-year period, we plot the estimates at the mid-point of the years in that interval for which the survey provides data. Black lines and corresponding intervals represent posterior medians and 95% uncertainty intervals respectively for the betabinomial model.

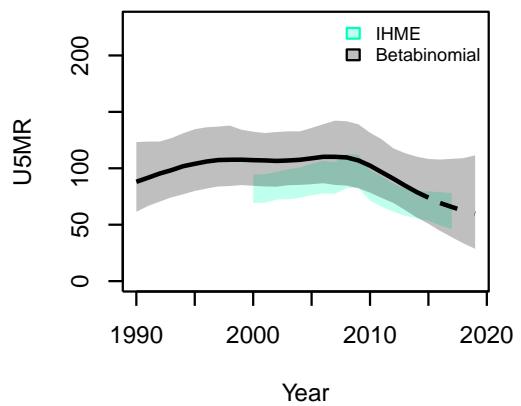
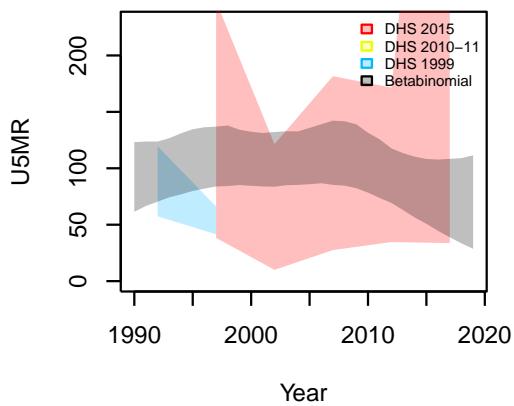
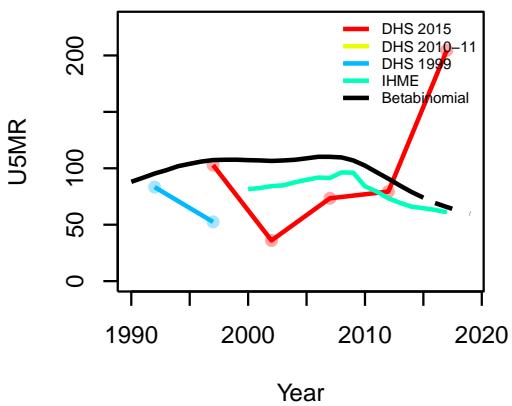
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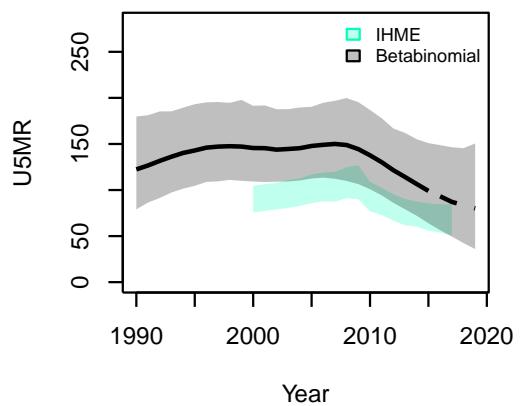
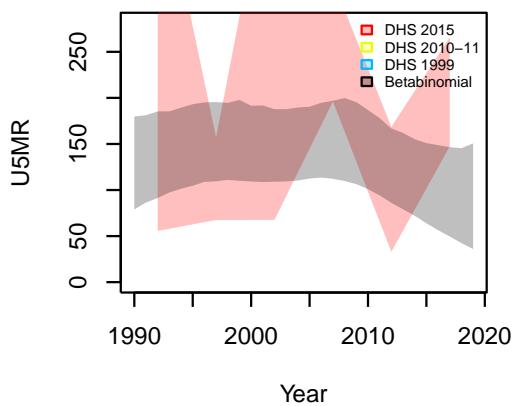
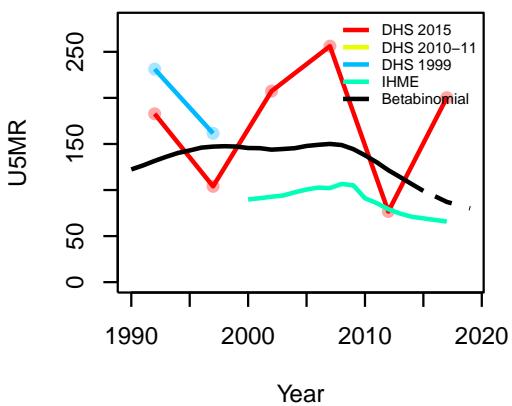
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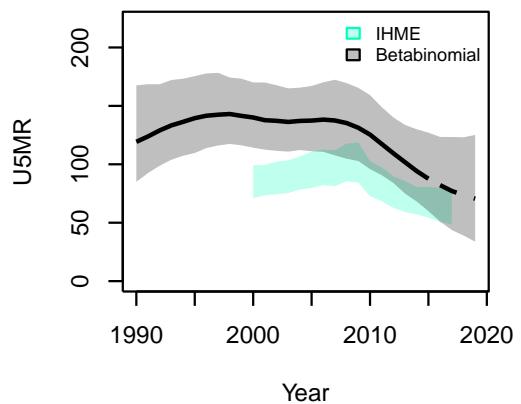
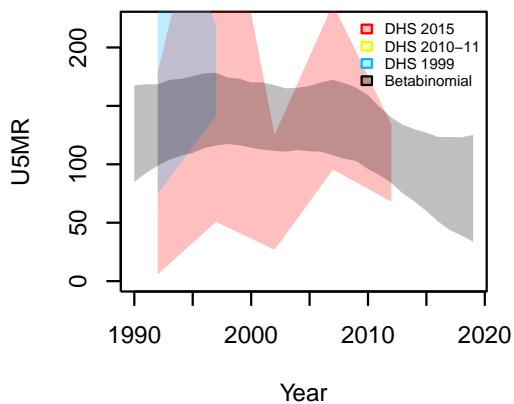
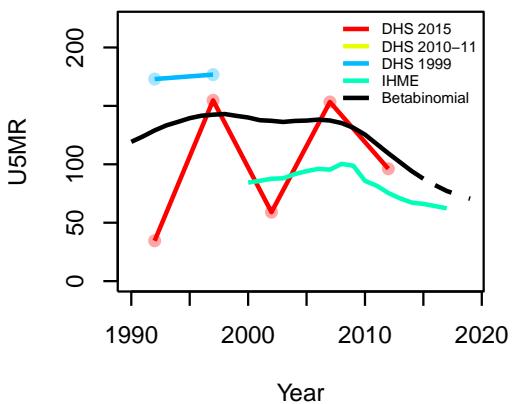
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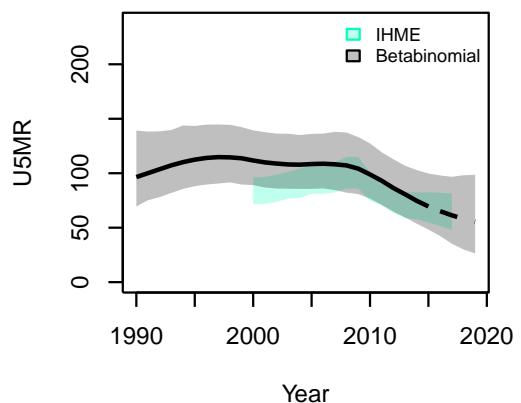
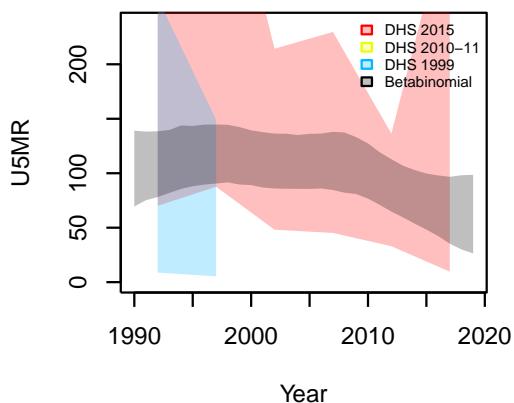
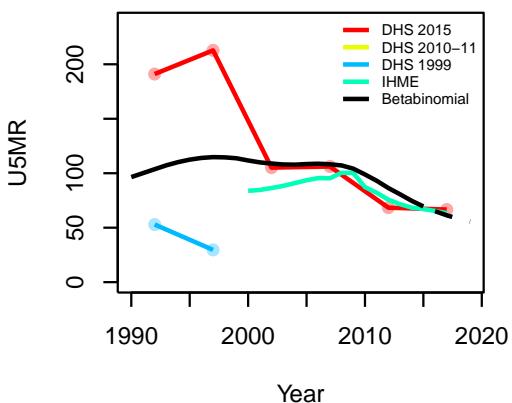
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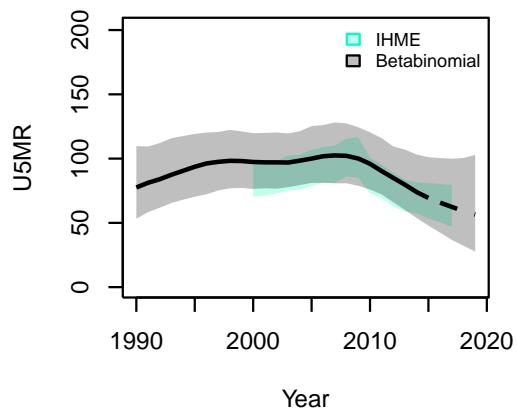
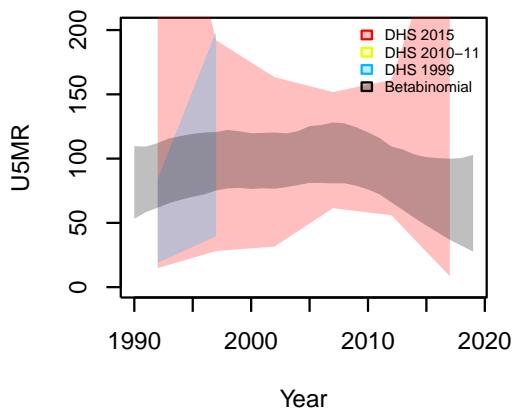
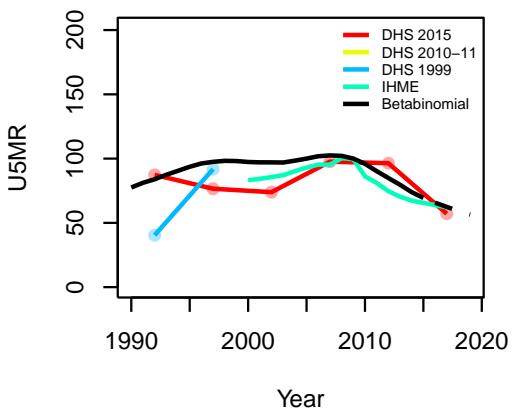
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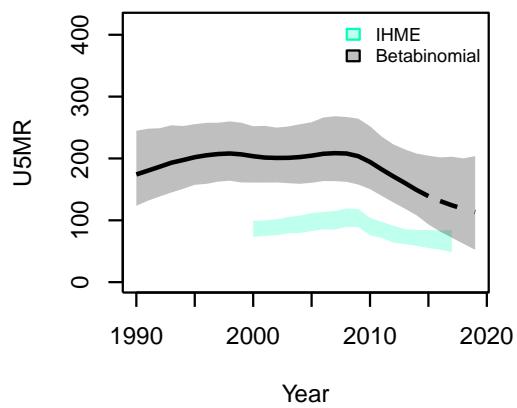
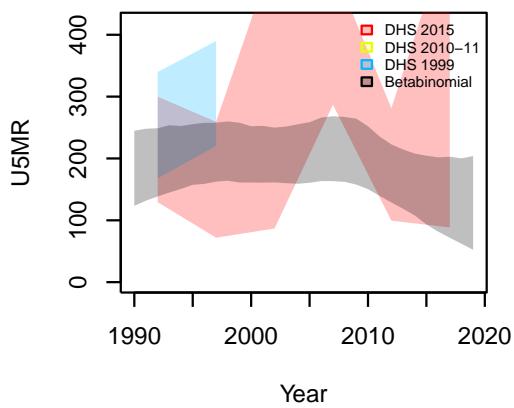
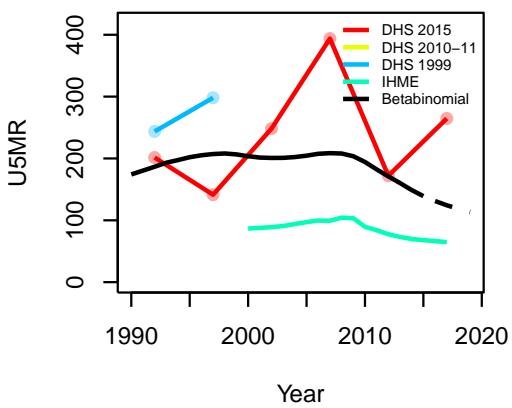
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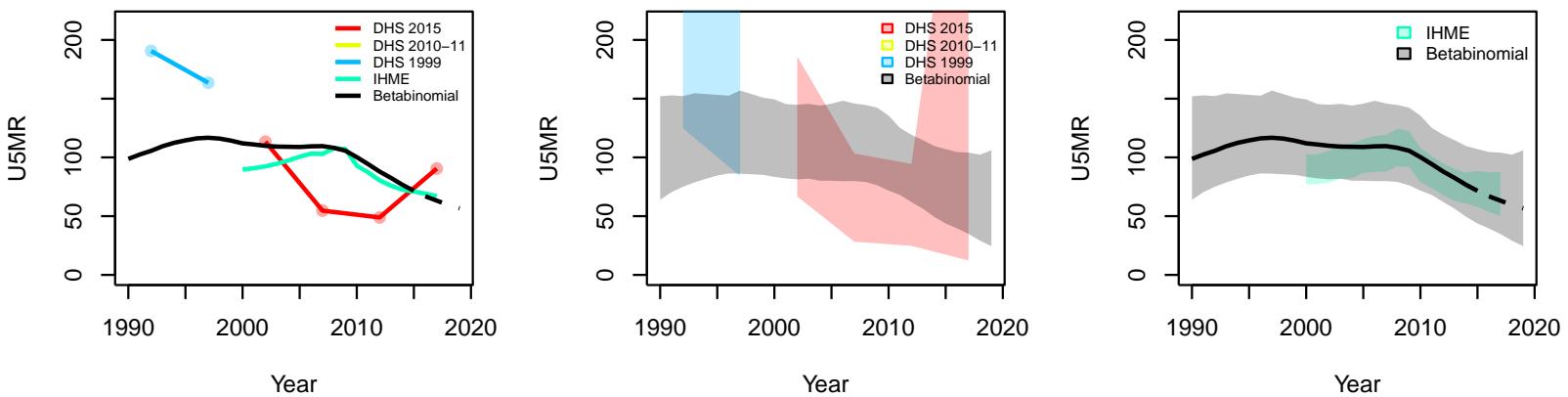
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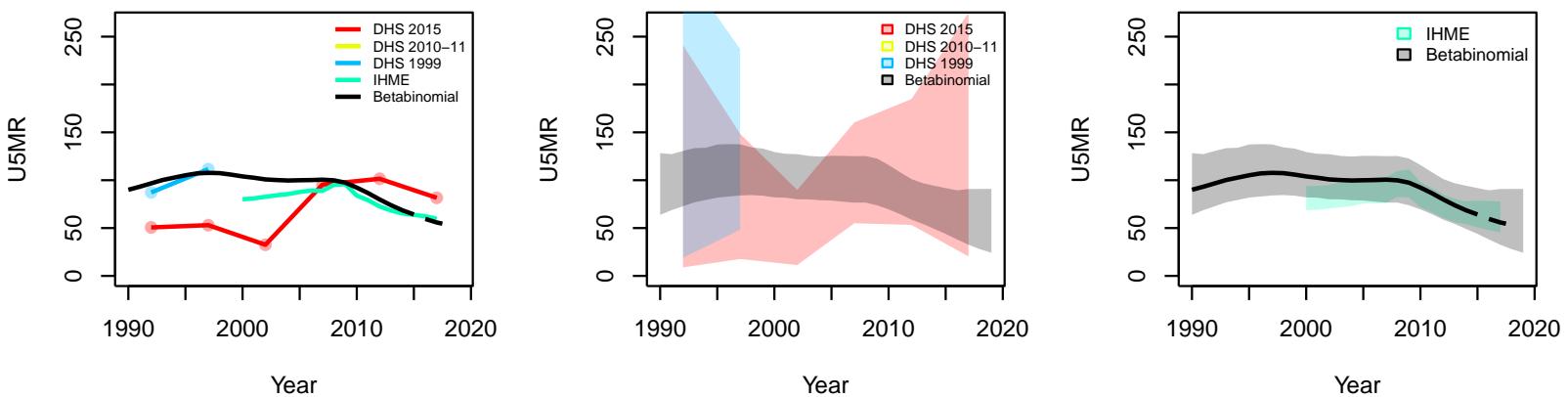
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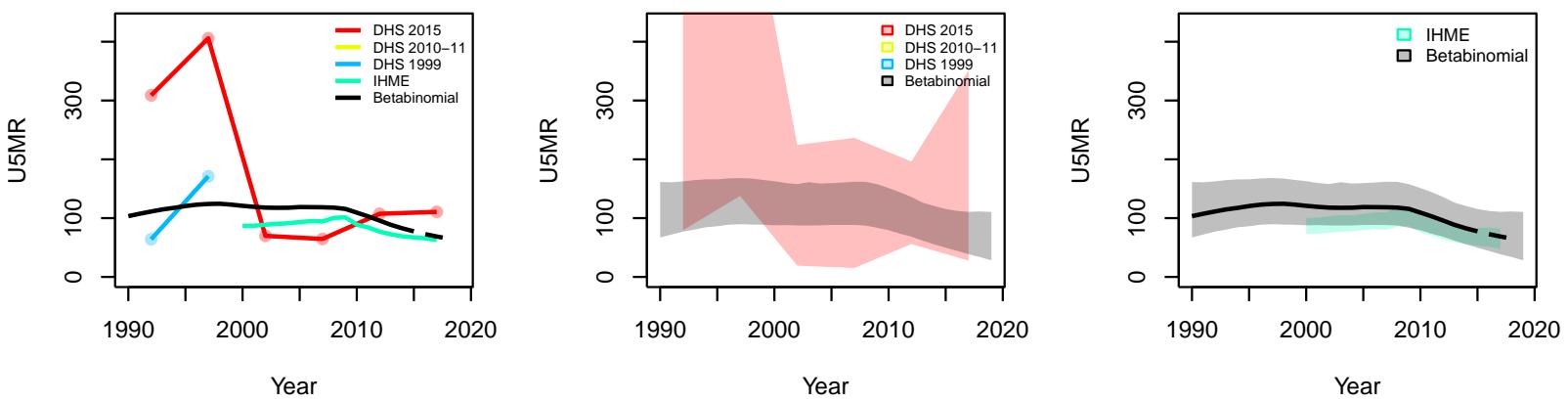
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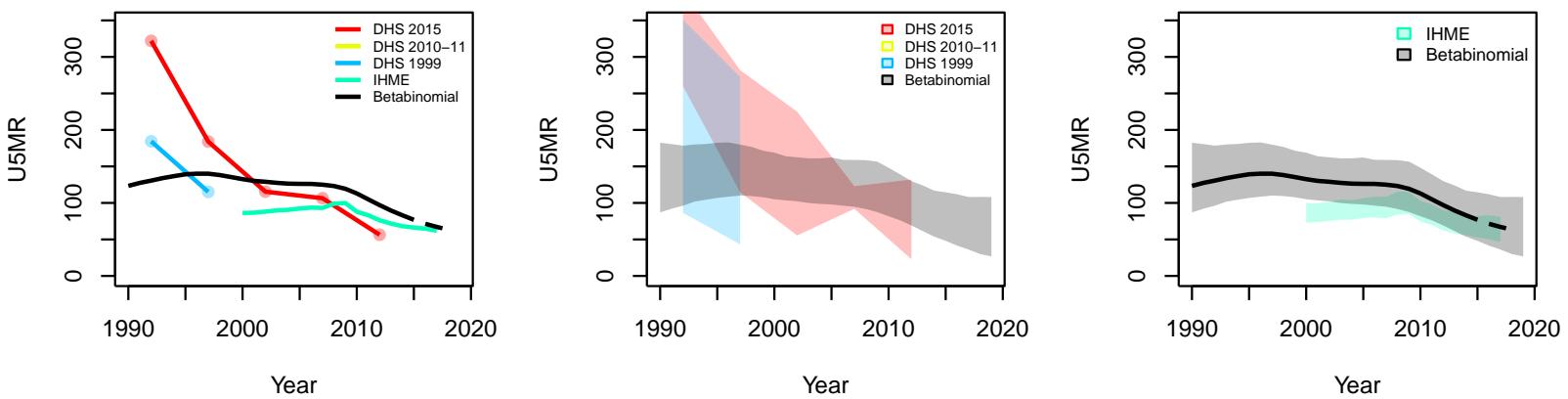
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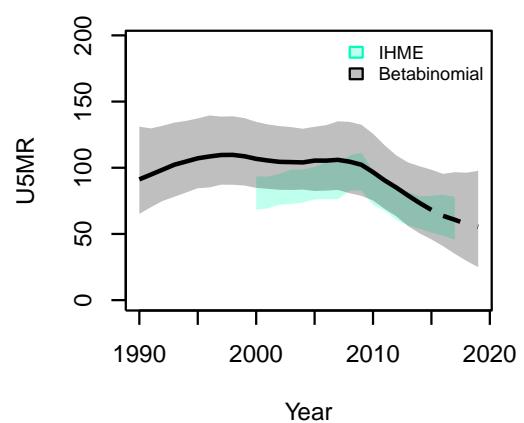
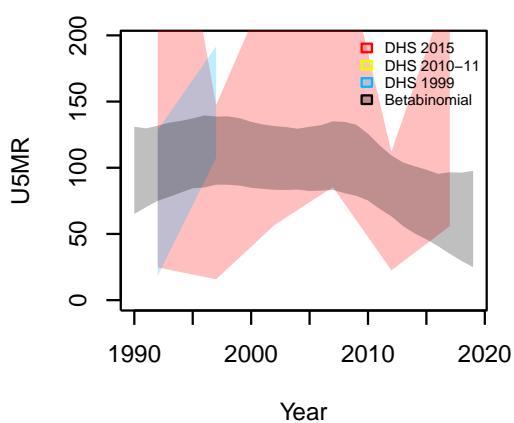
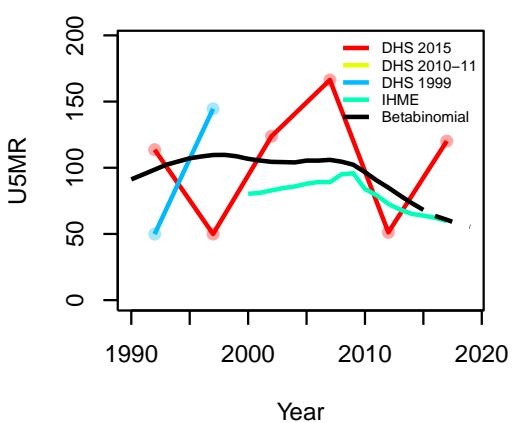
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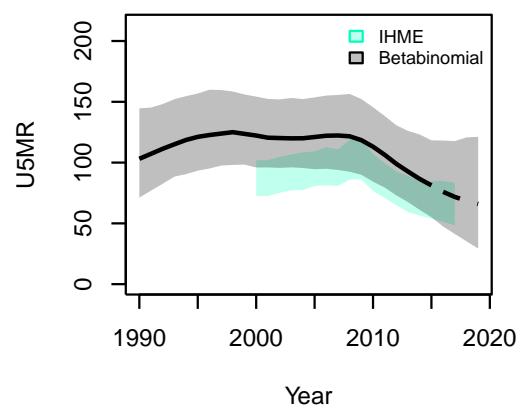
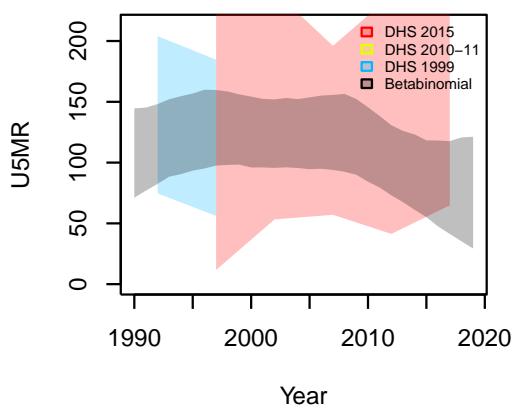
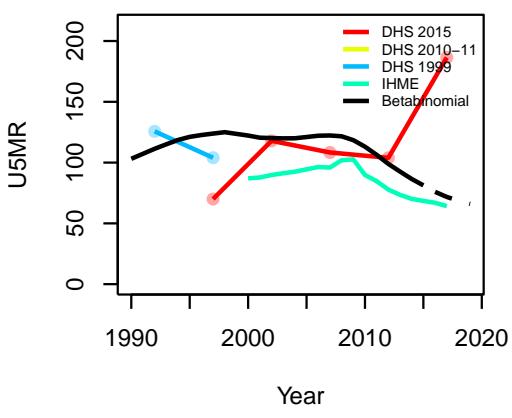
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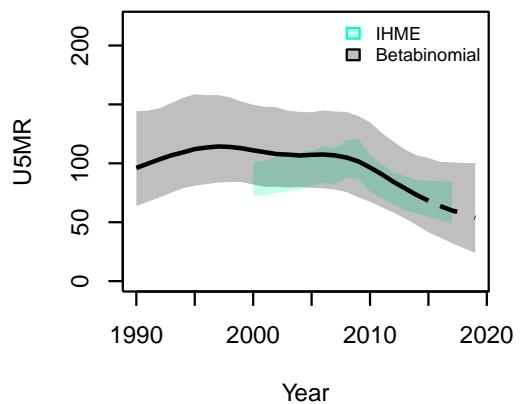
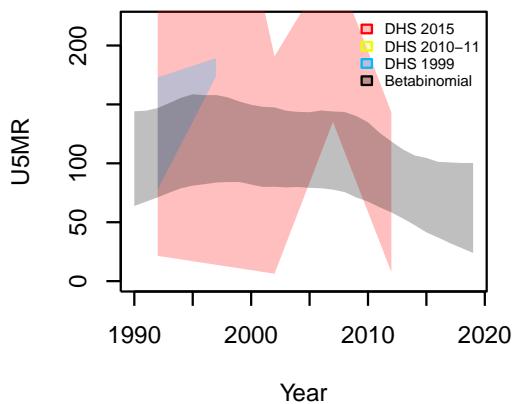
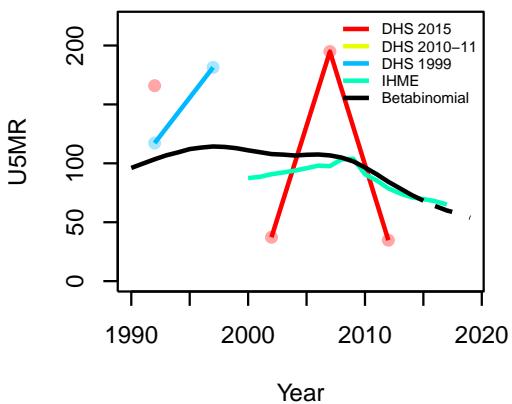
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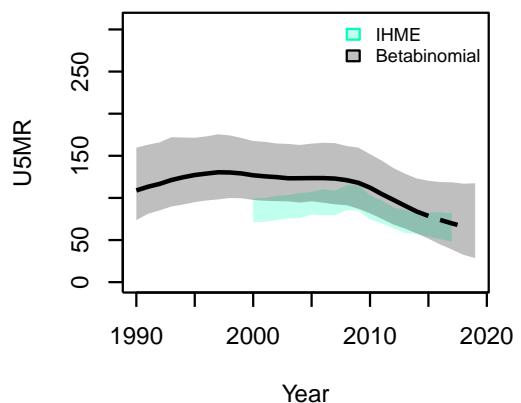
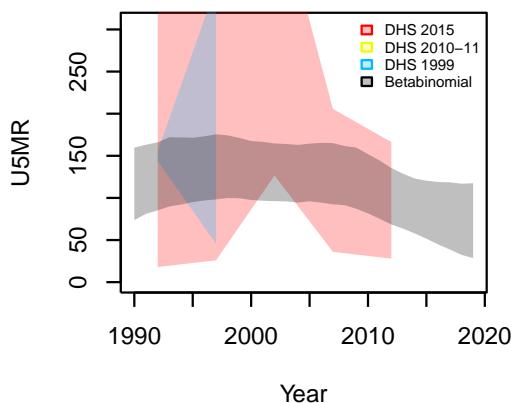
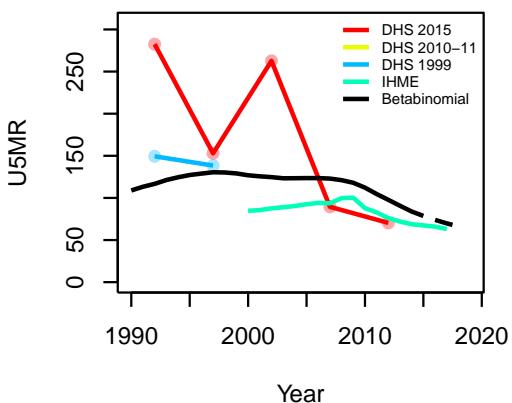
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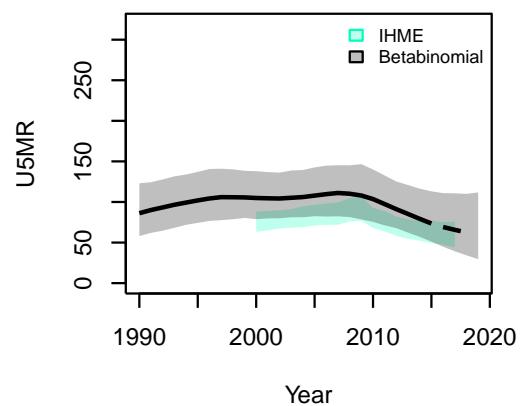
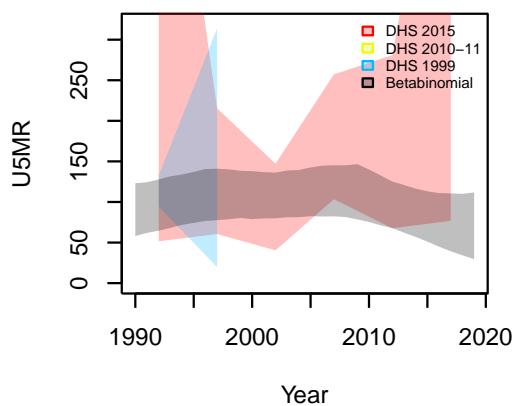
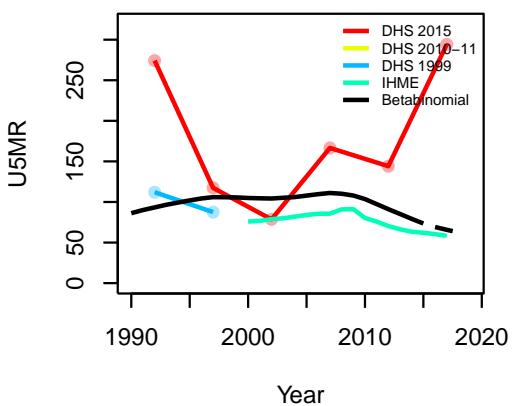
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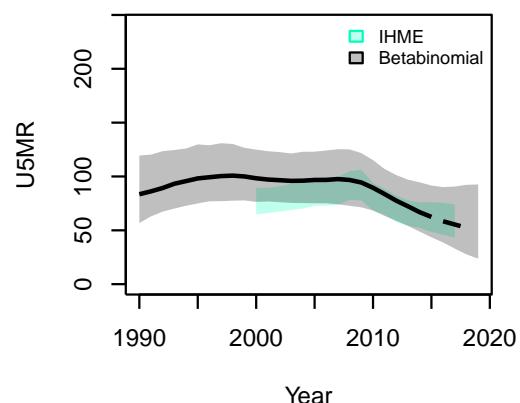
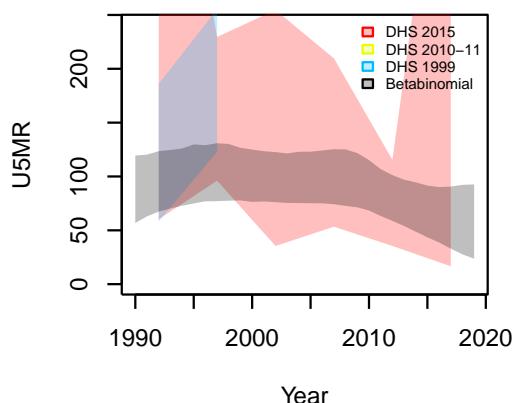
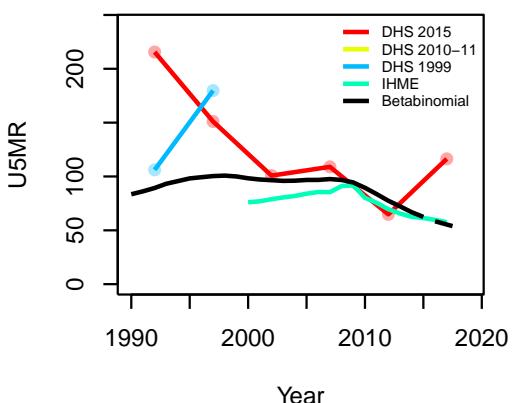
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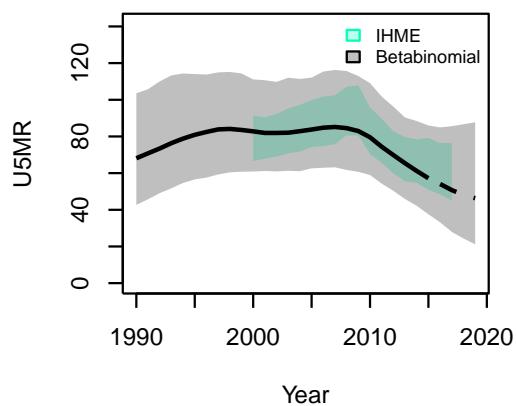
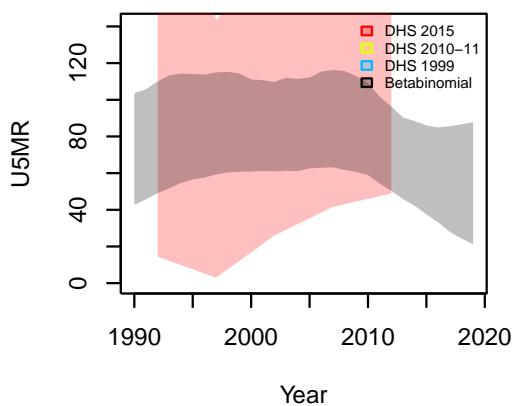
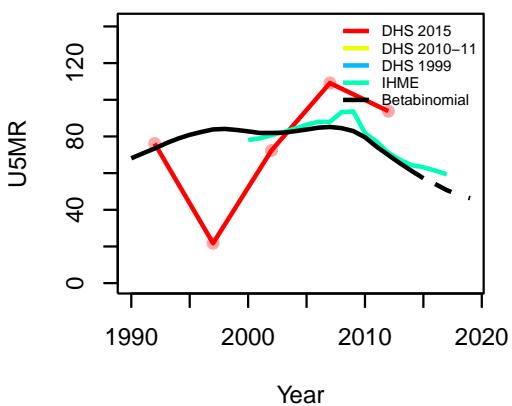
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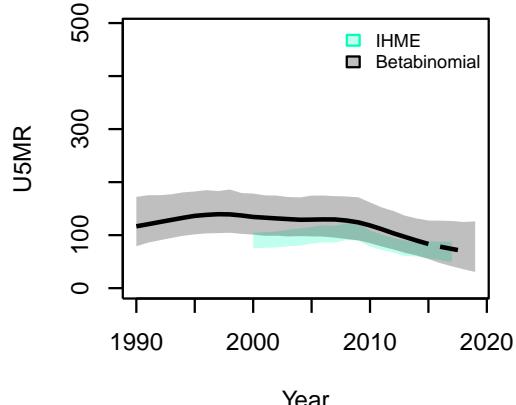
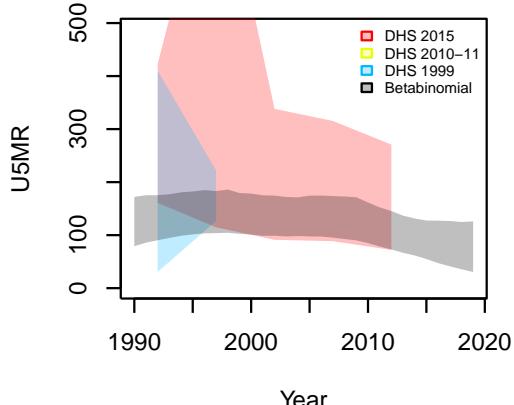
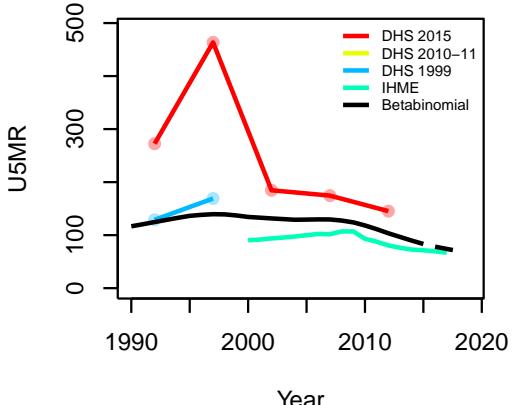
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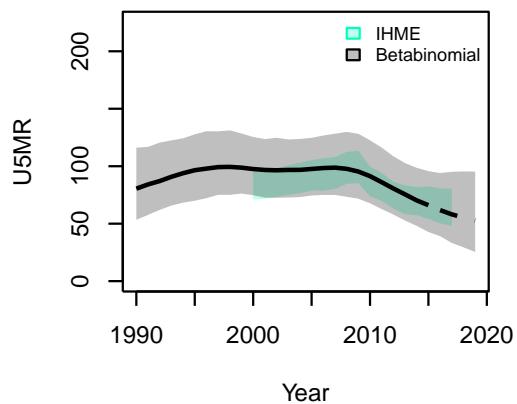
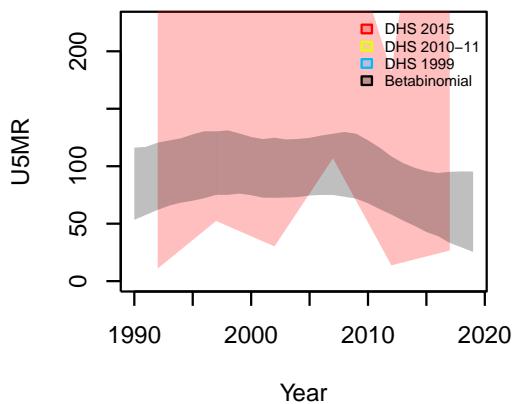
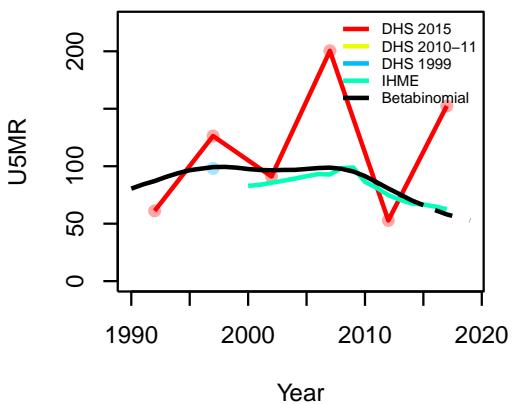
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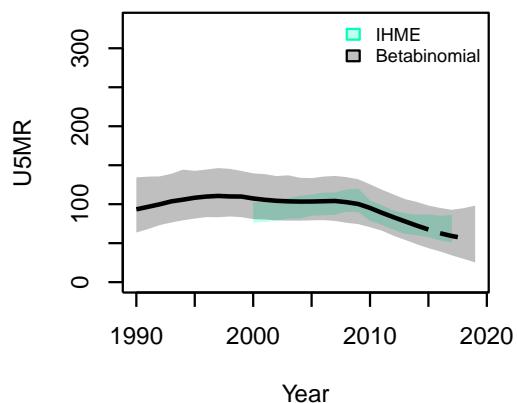
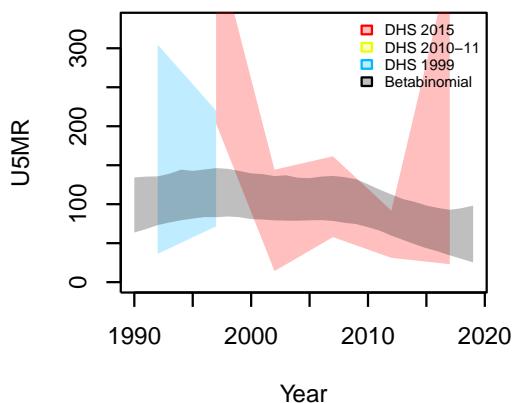
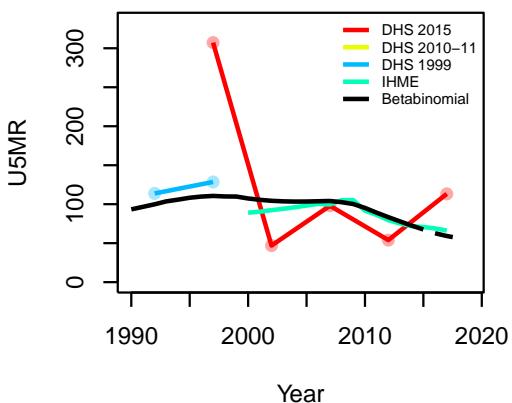
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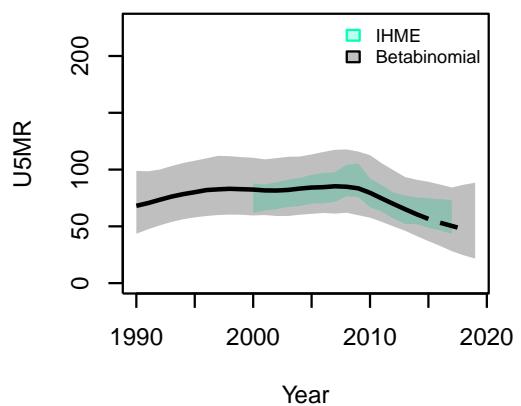
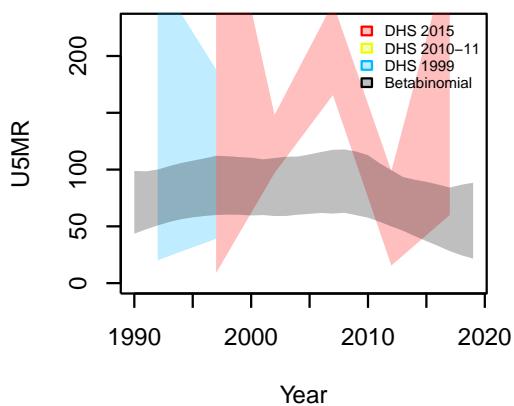
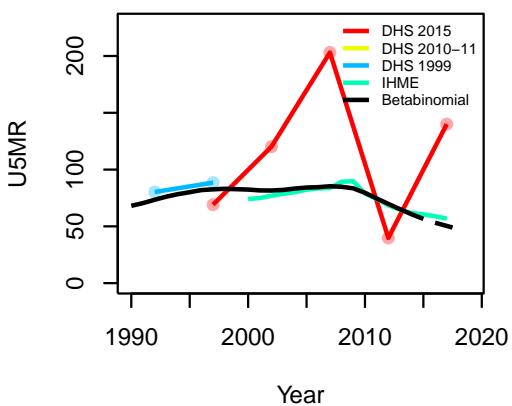
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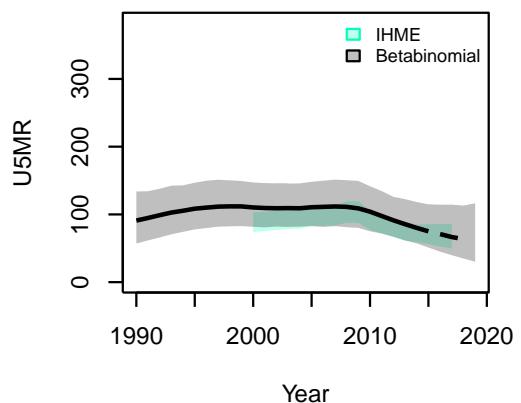
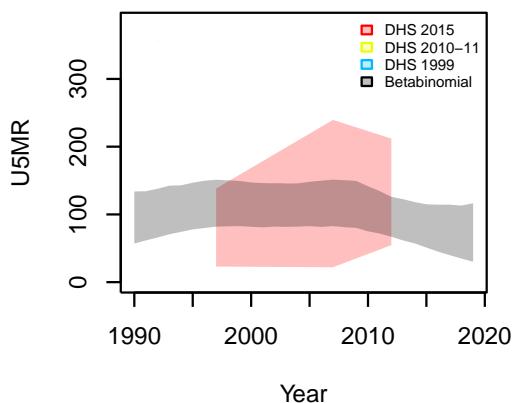
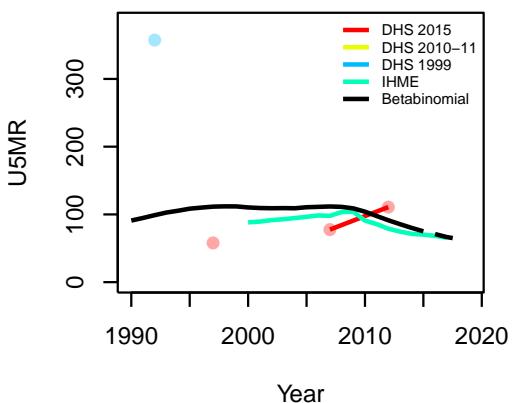
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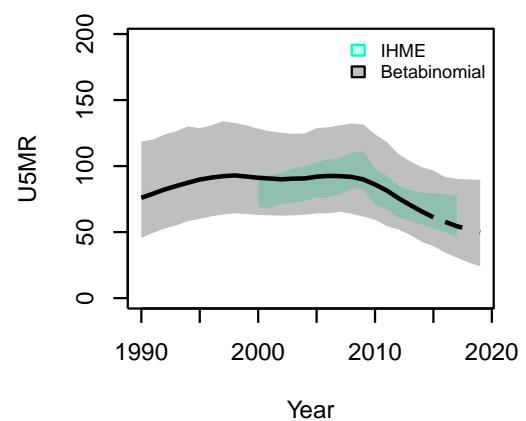
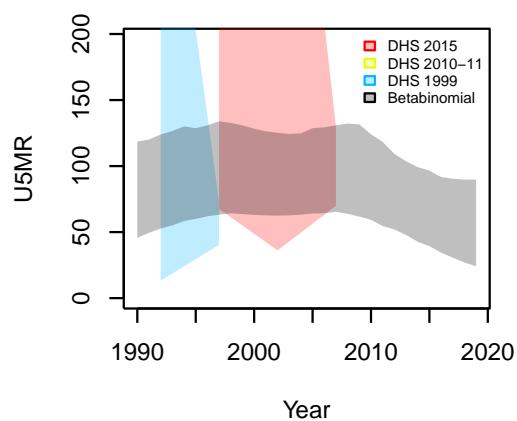
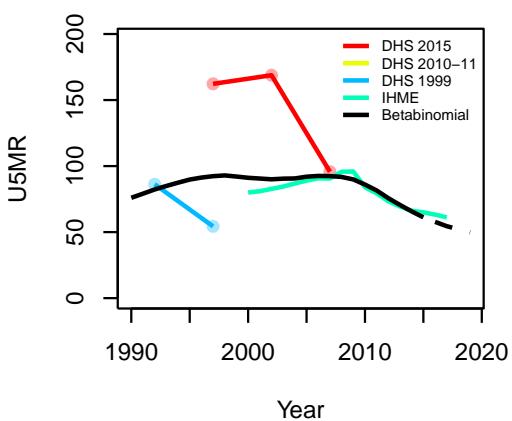
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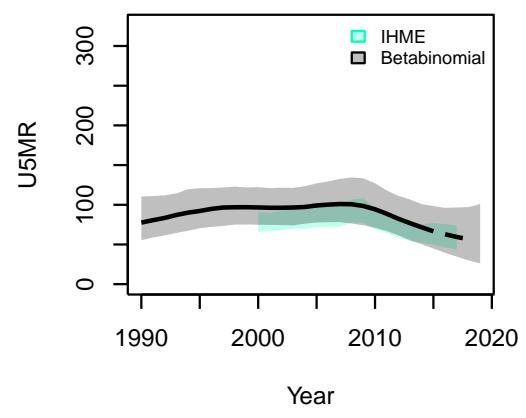
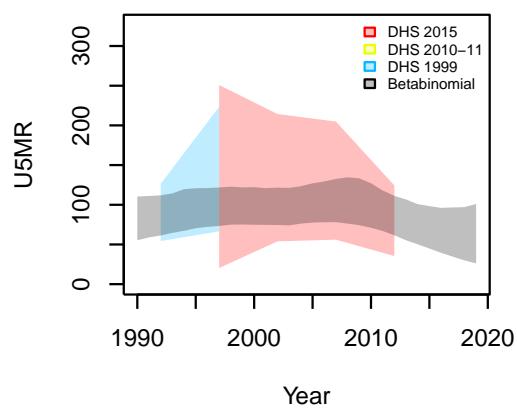
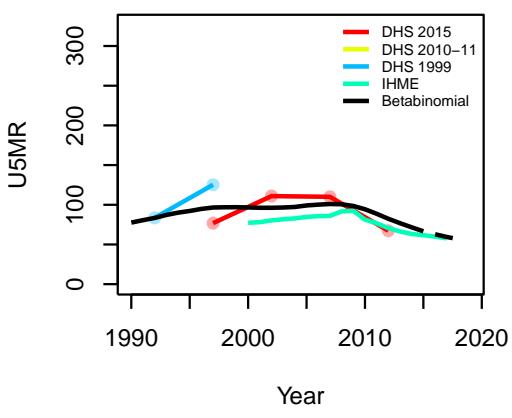
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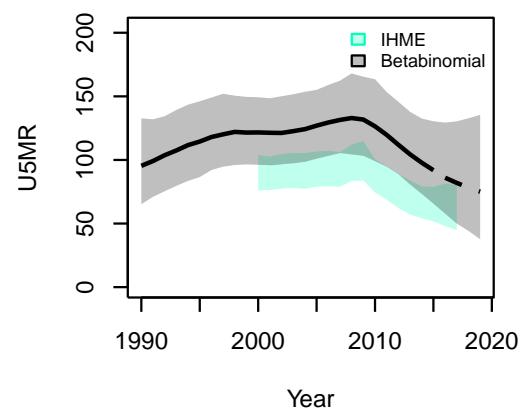
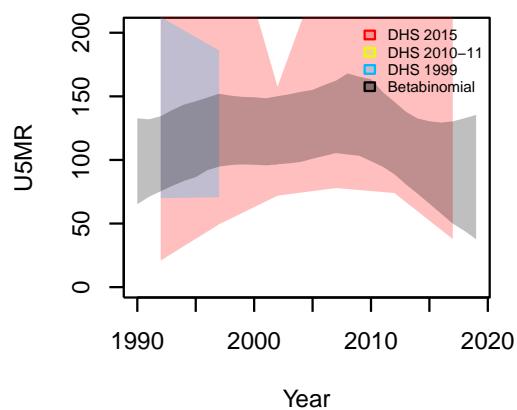
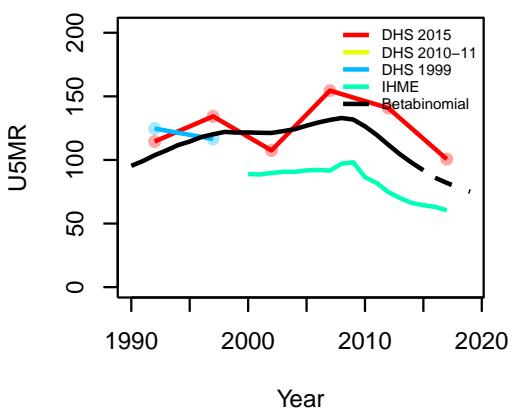
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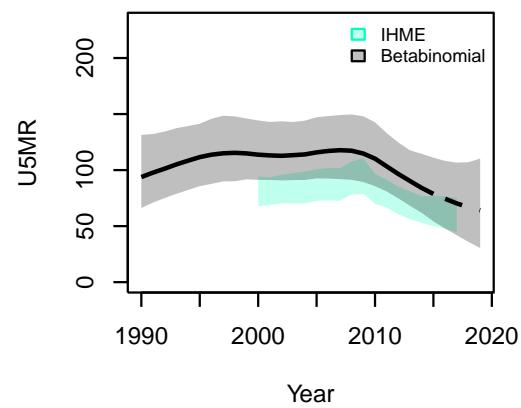
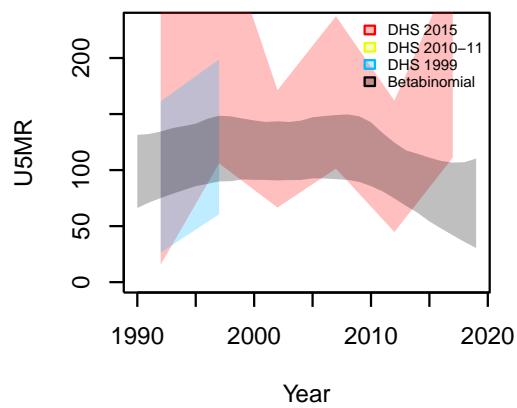
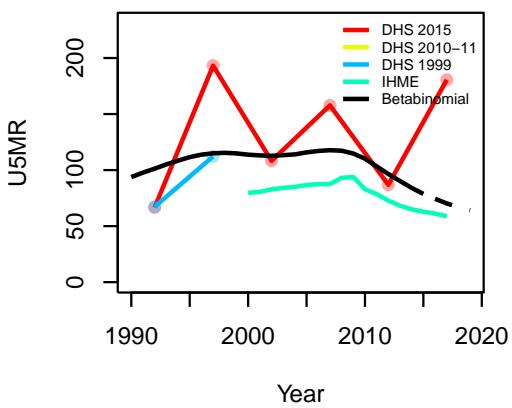
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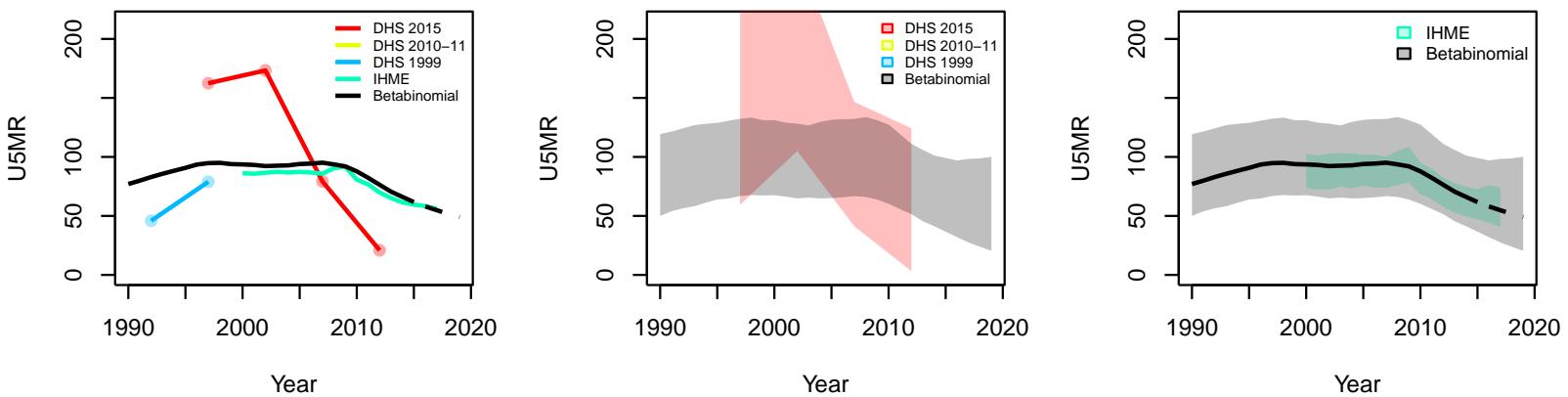
### Hurungwe, Mashonaland West



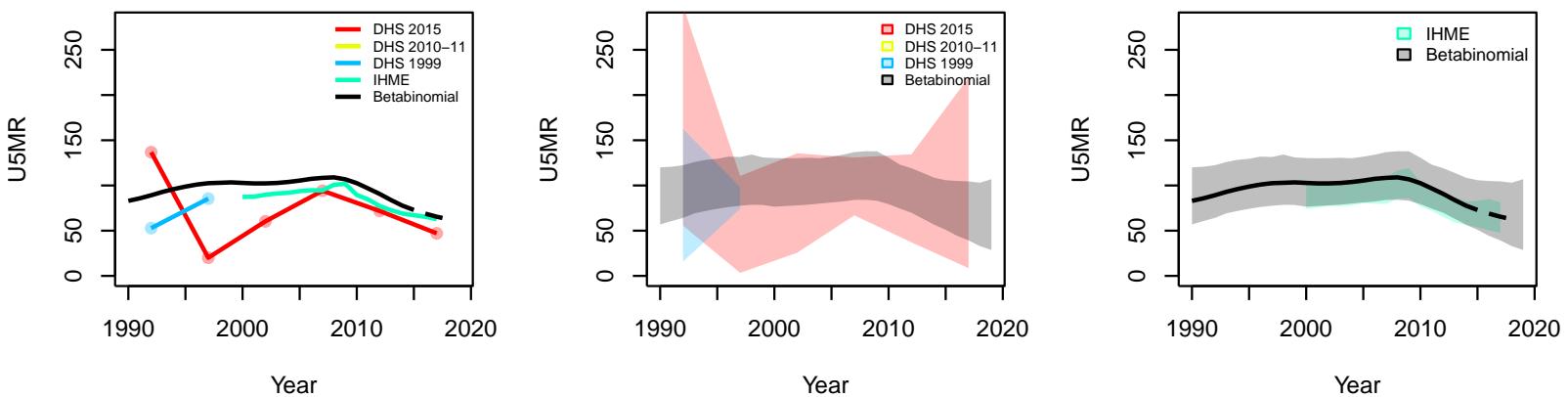
### Kadoma, Mashonaland West



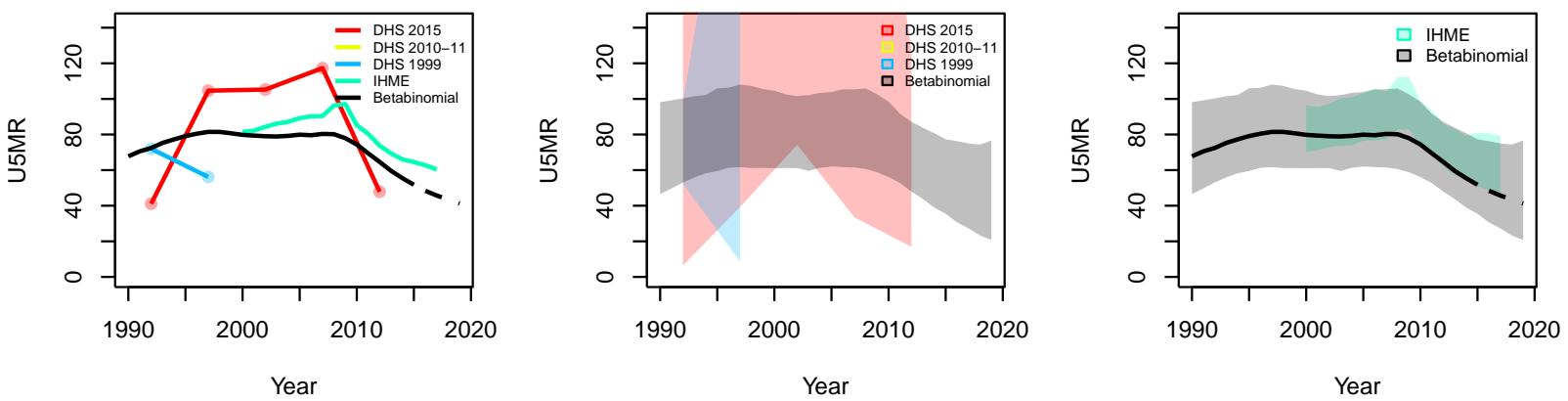
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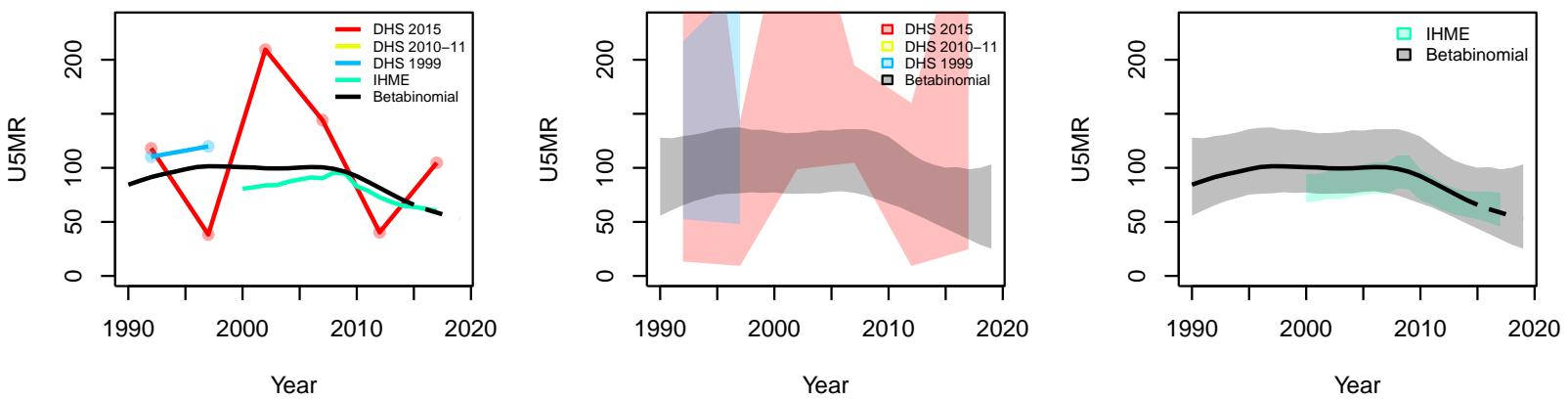
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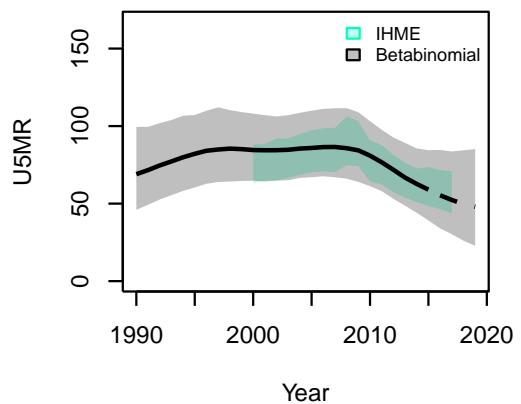
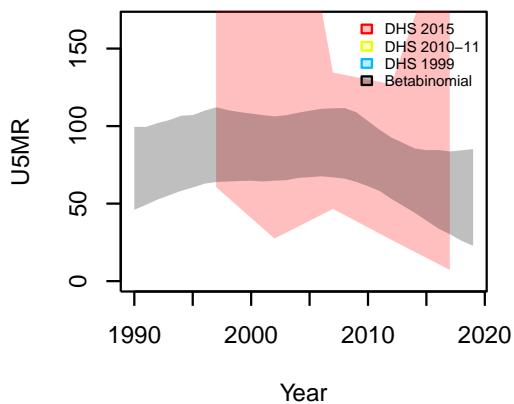
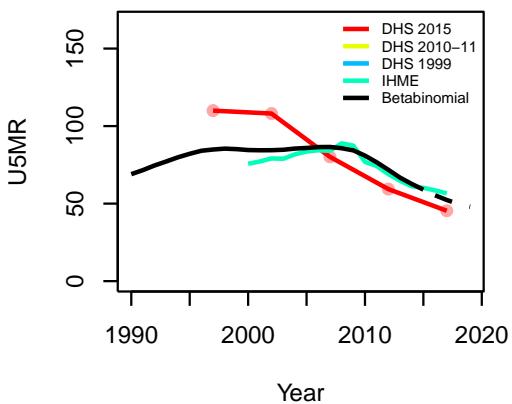
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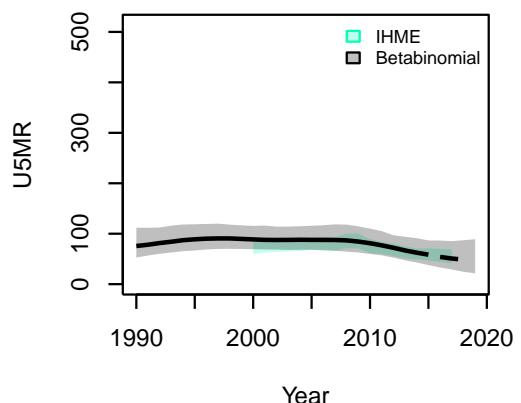
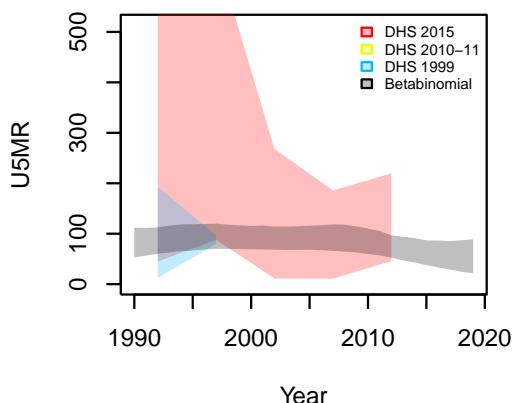
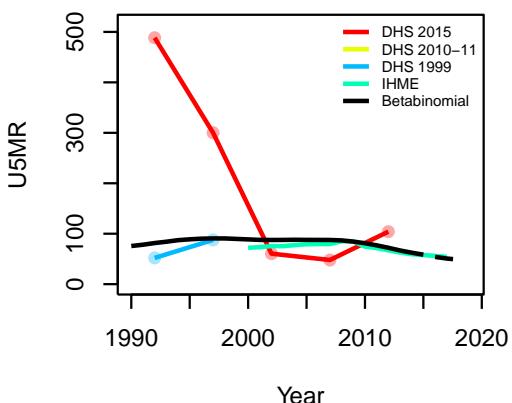
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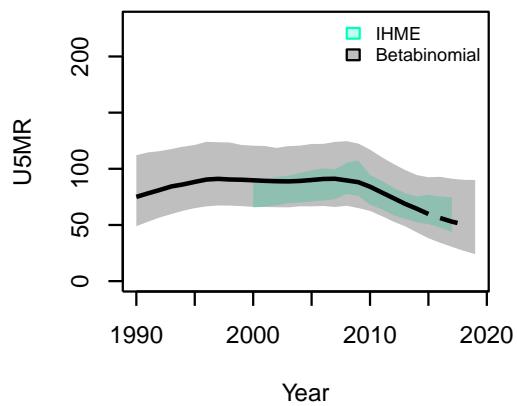
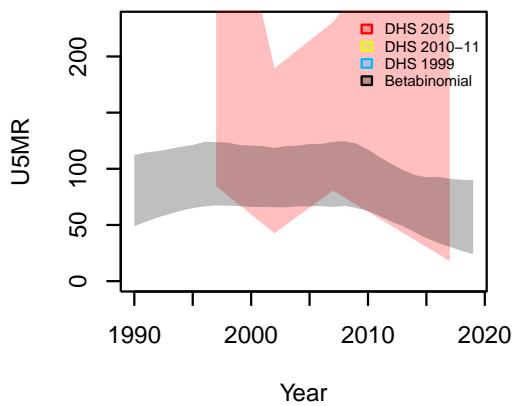
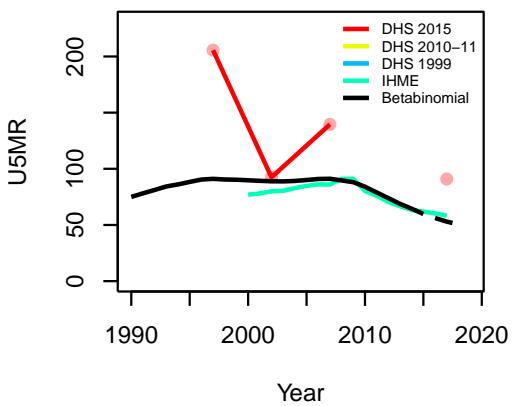
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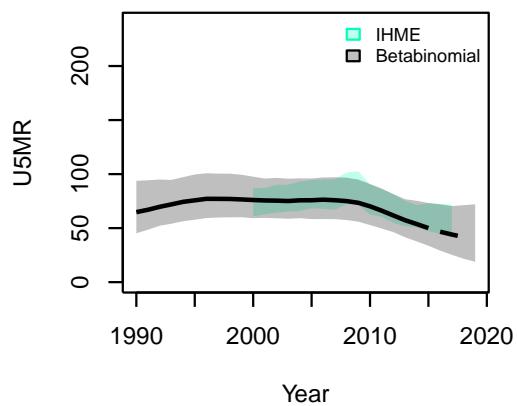
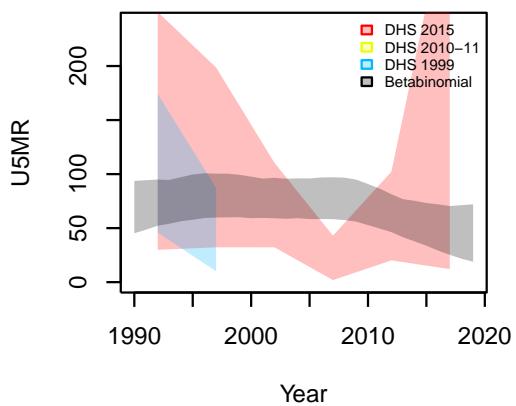
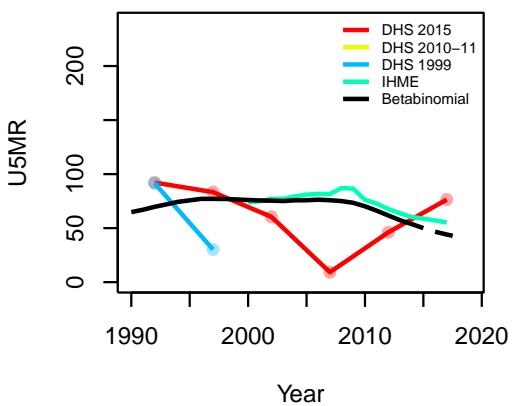
### Chivi, Masvingo



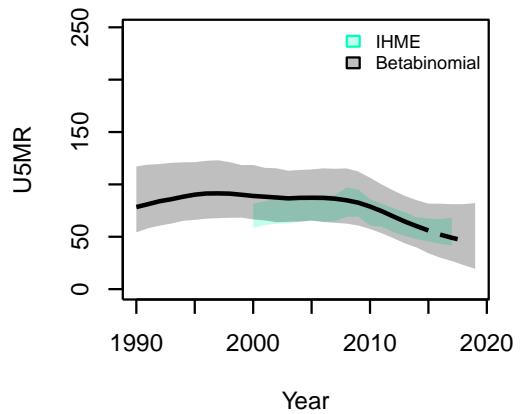
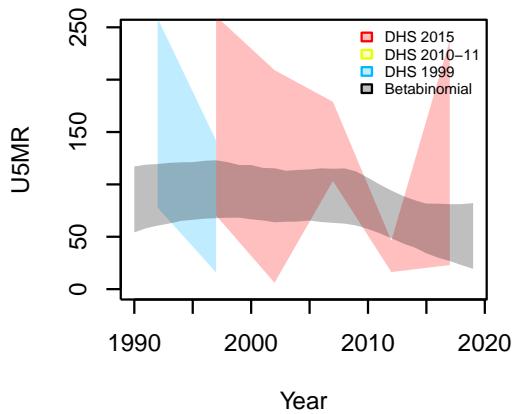
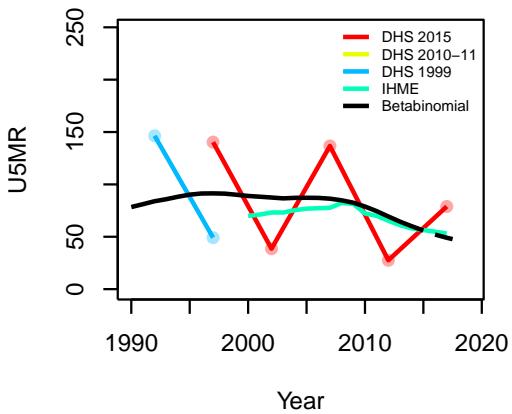
### Gutu, Masvingo



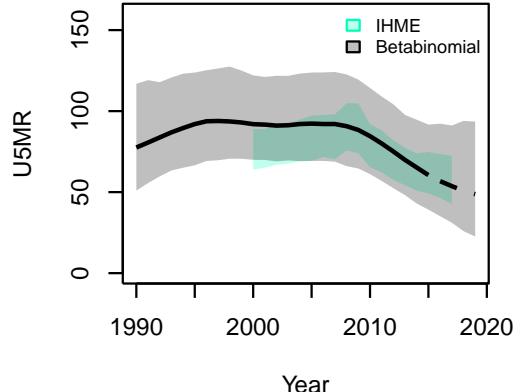
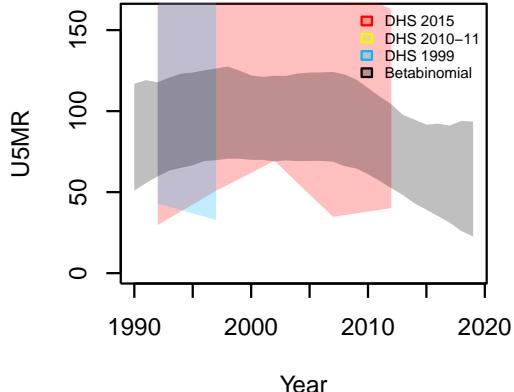
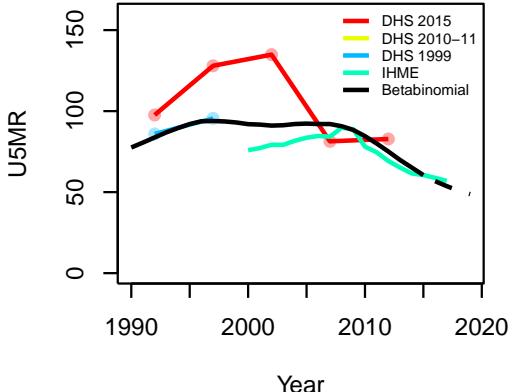
### Masvingo, Masvingo



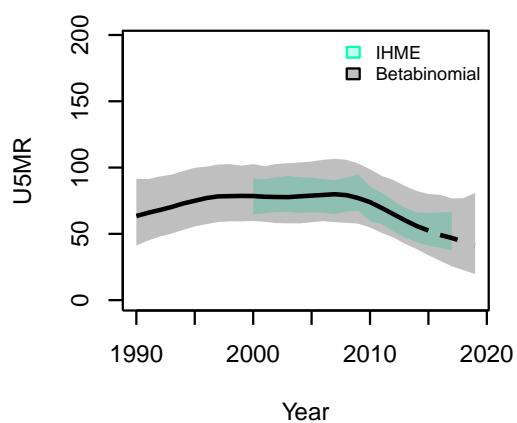
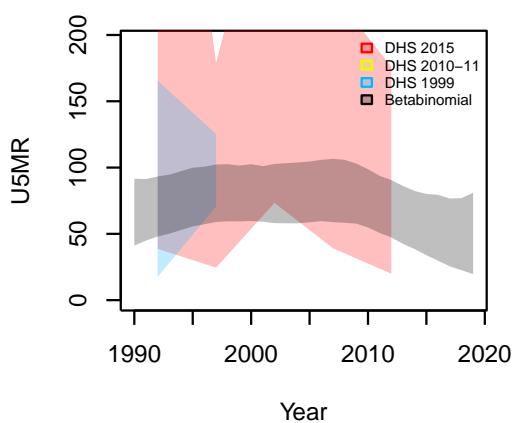
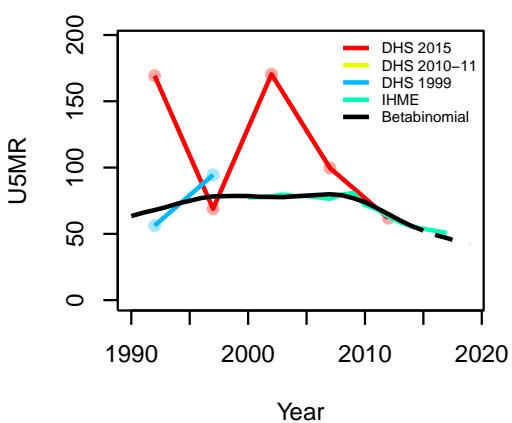
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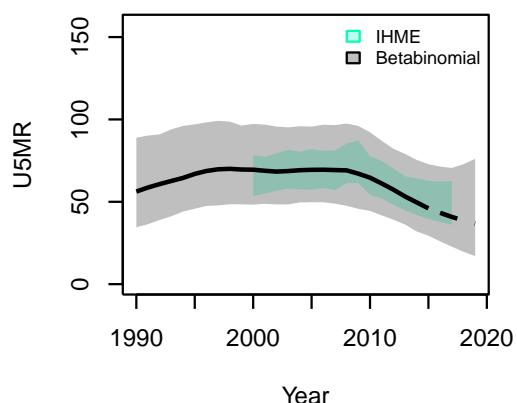
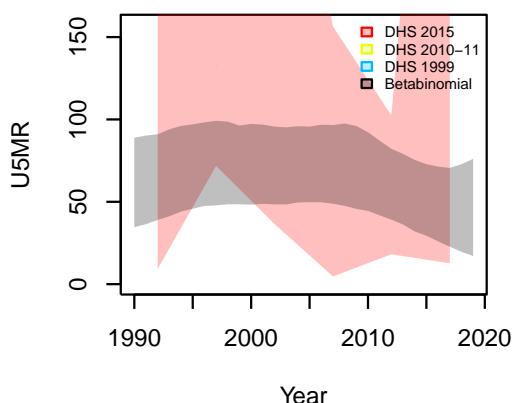
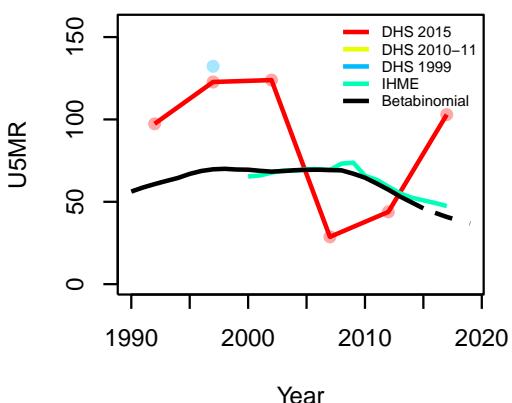
### Zaka, Masvingo



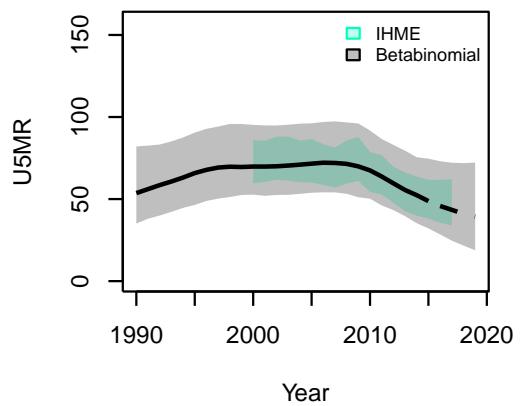
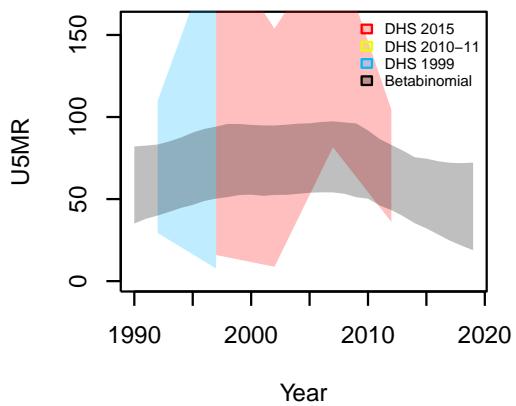
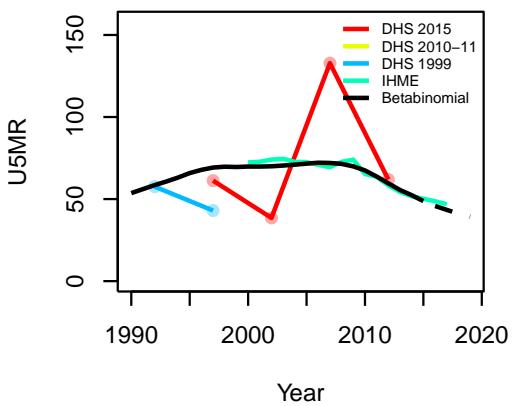
### Binga, Matabeleland North



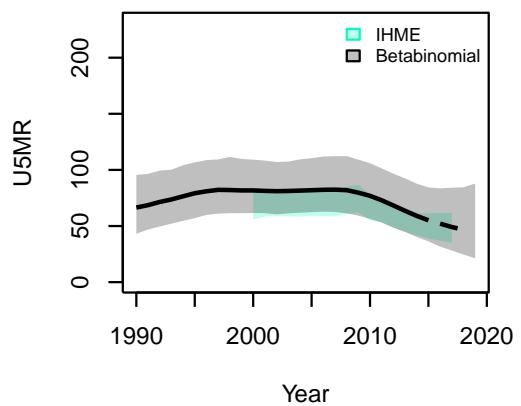
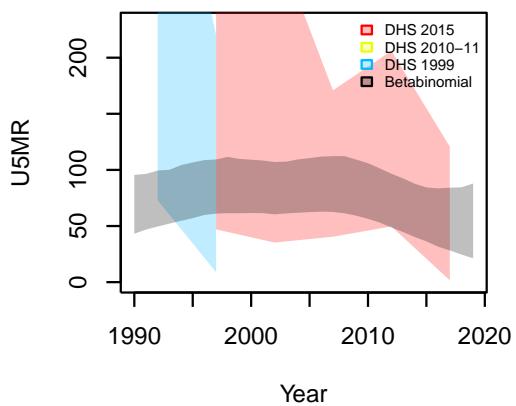
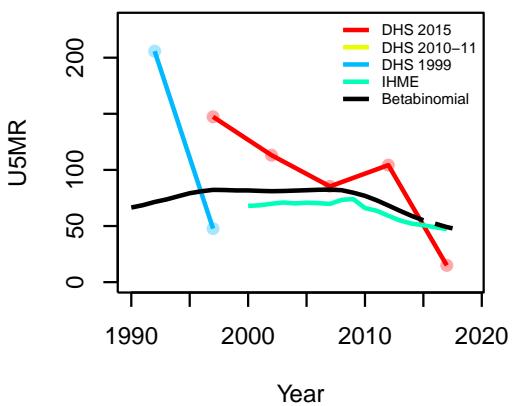
### Bubi, Matabeleland North



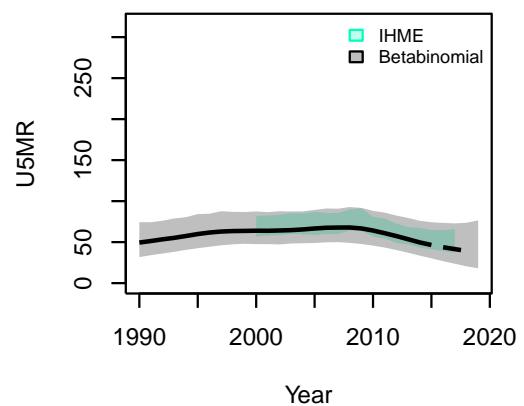
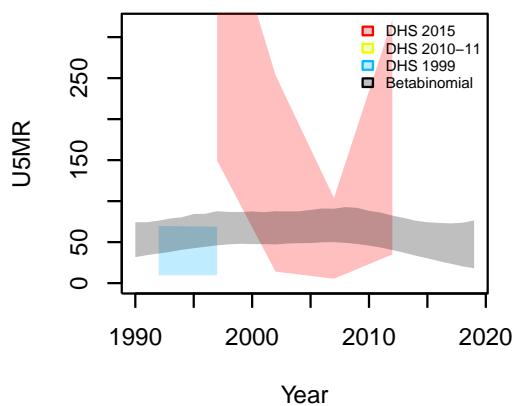
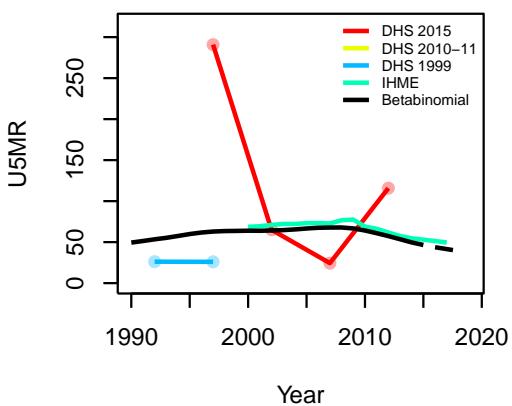
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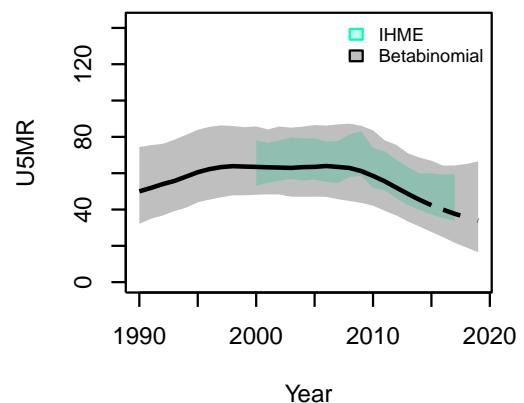
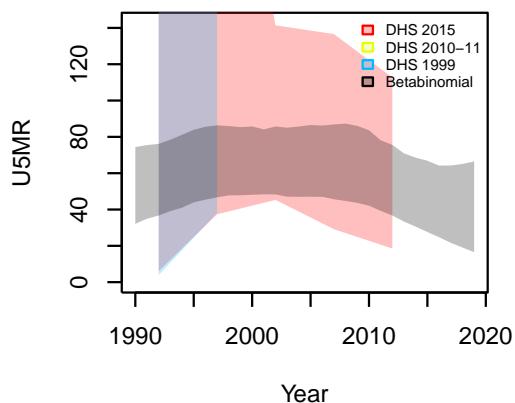
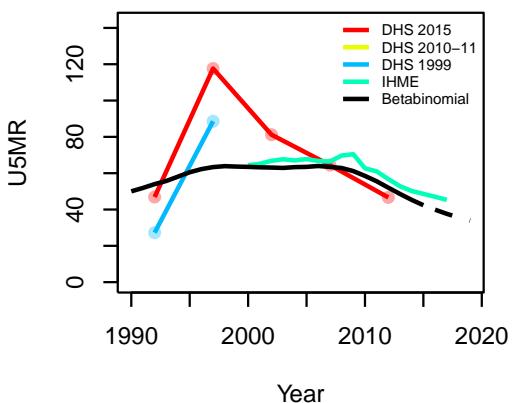
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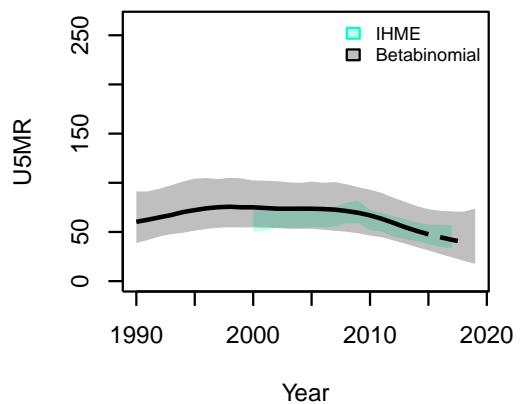
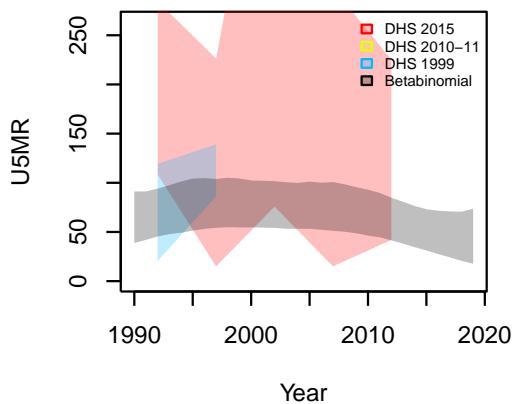
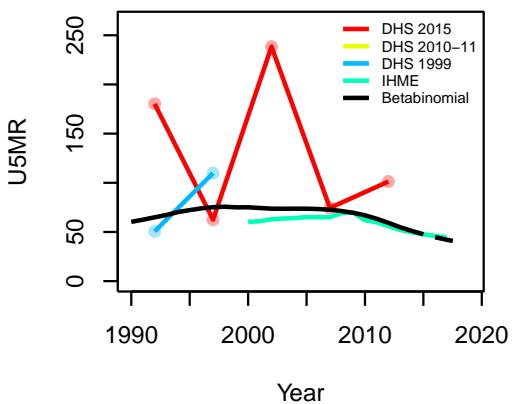
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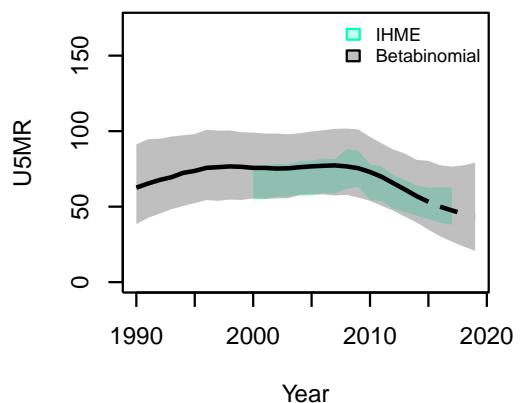
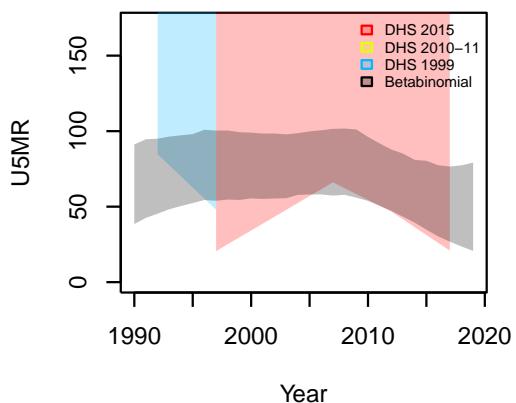
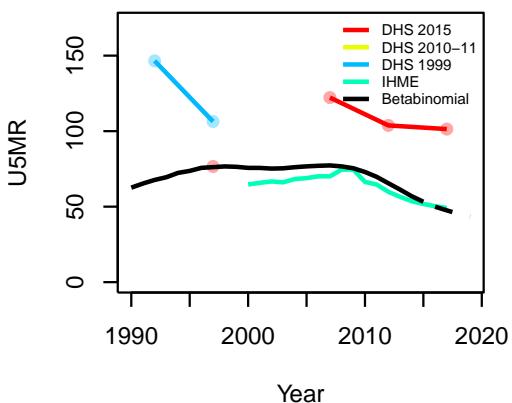
### Tsholotsho, Matabeleland North



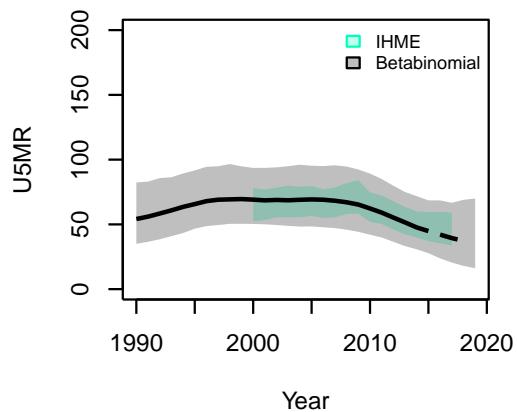
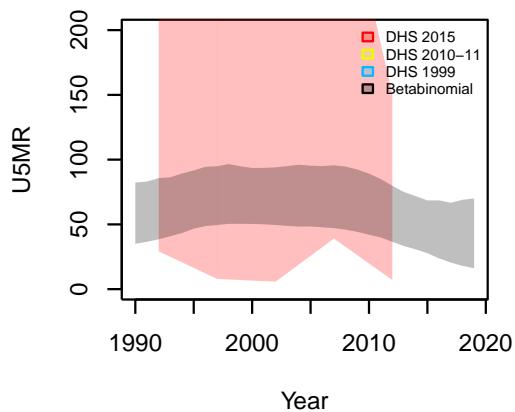
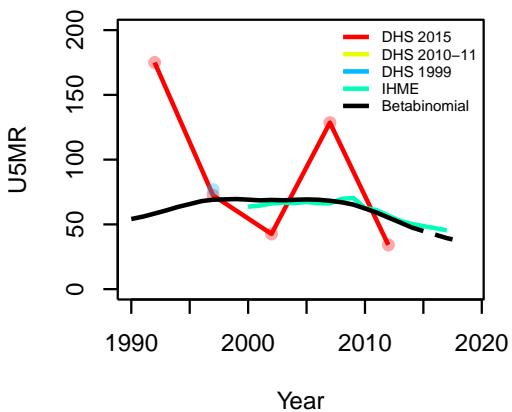
### Umgusa, Matabeleland North



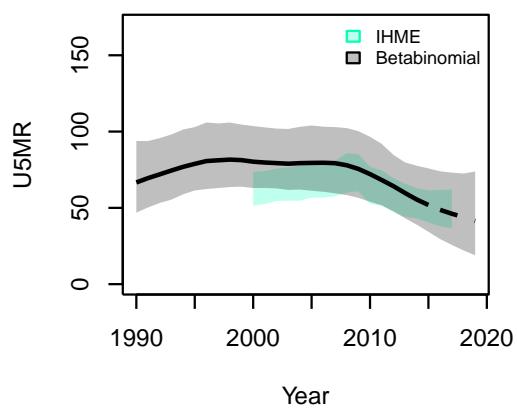
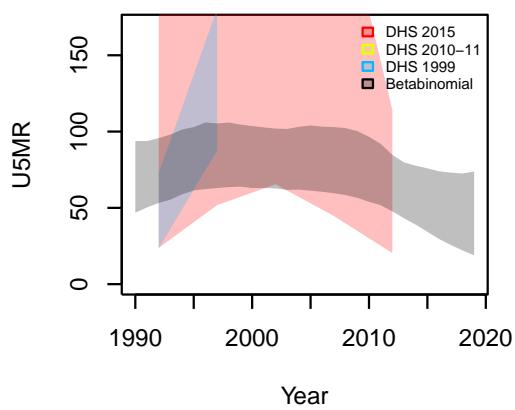
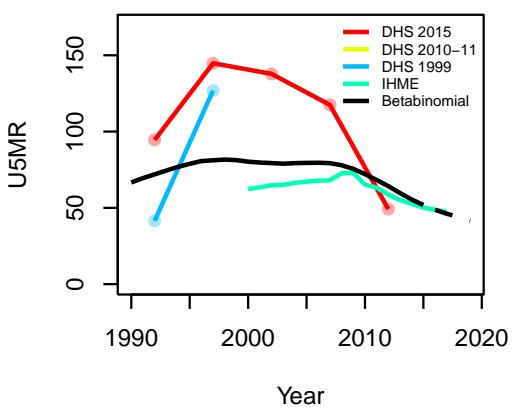
### Beitbridge, Matabeleland South



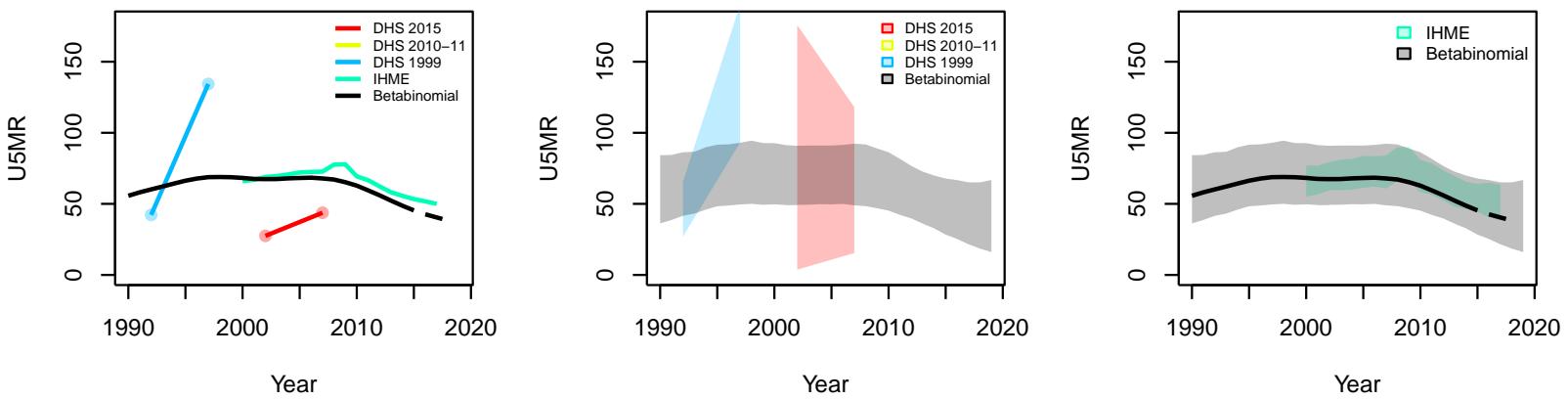
### Bulilima (North), Matabeleland South



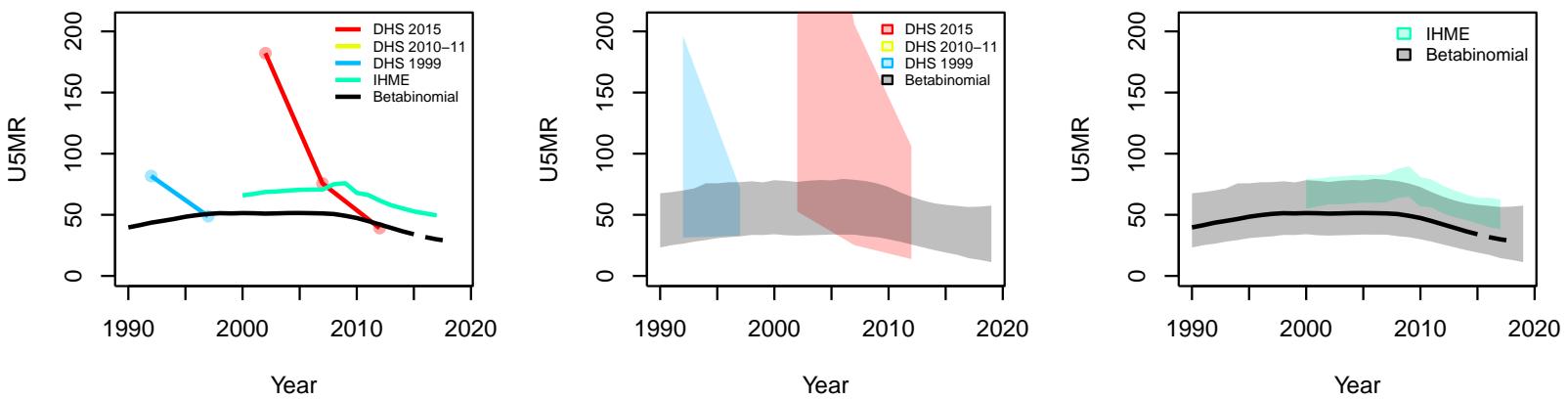
### Gwanda, Matabeleland South



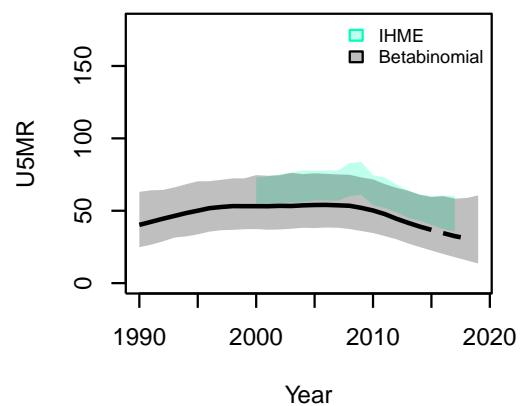
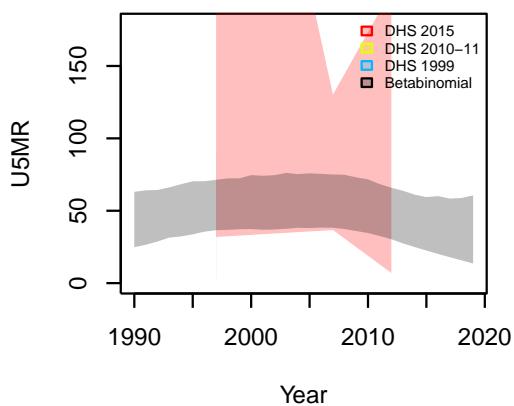
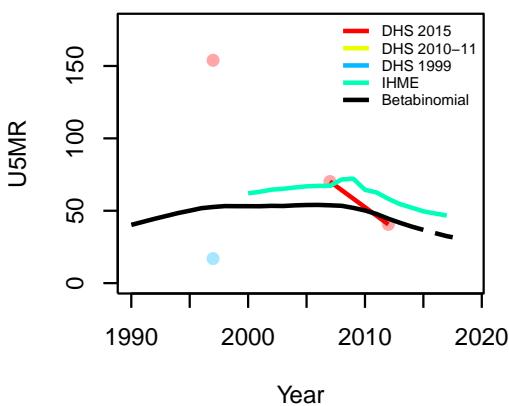
### Insiza, Matabeleland South



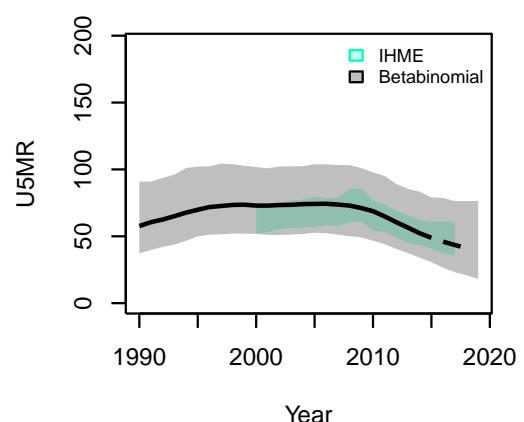
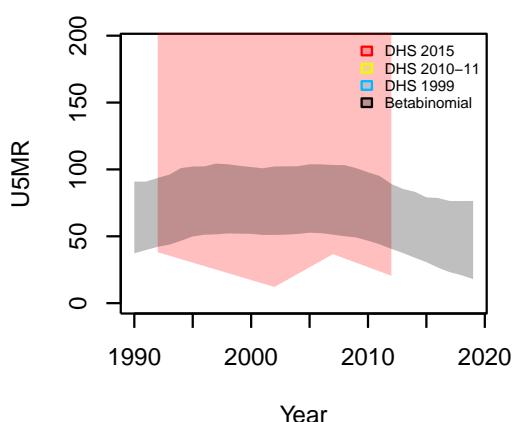
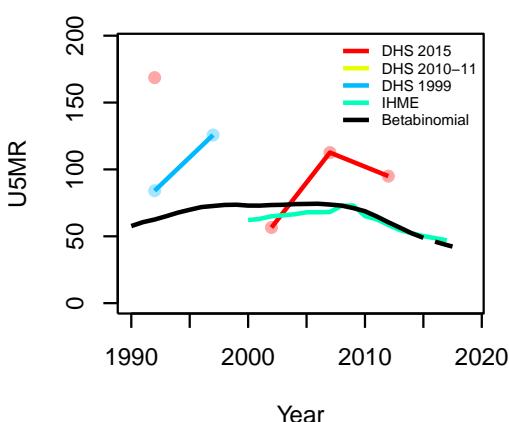
### Mangwe (South), Matabeleland South



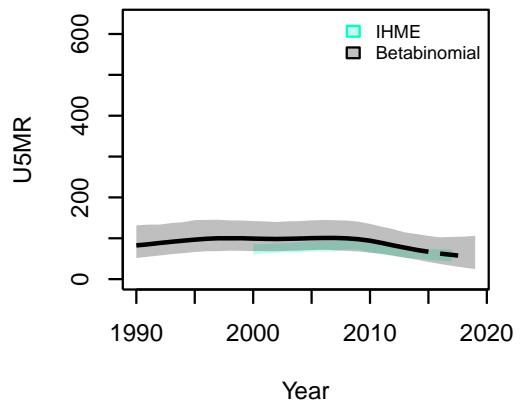
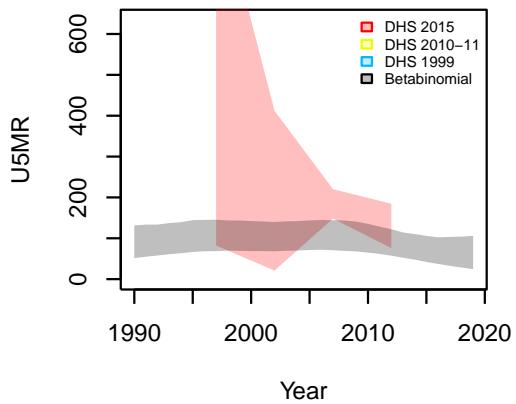
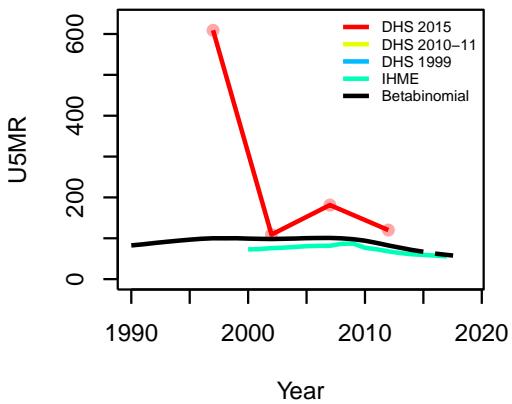
### Matobo, Matabeleland South



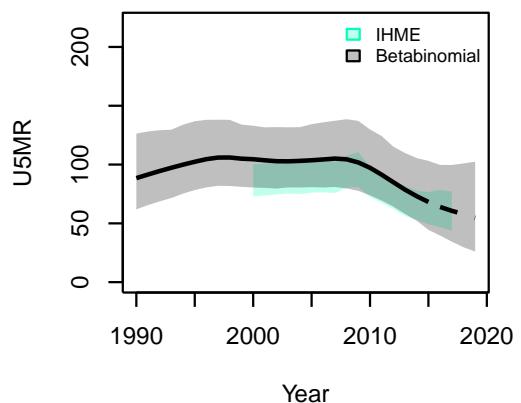
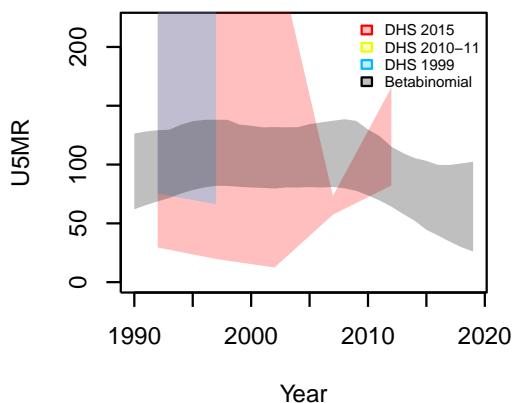
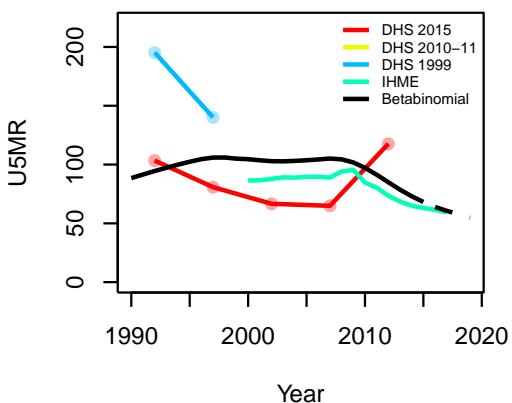
### Umzingwane, Matabeleland South



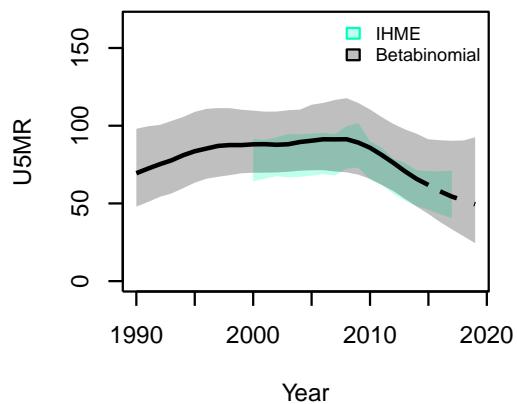
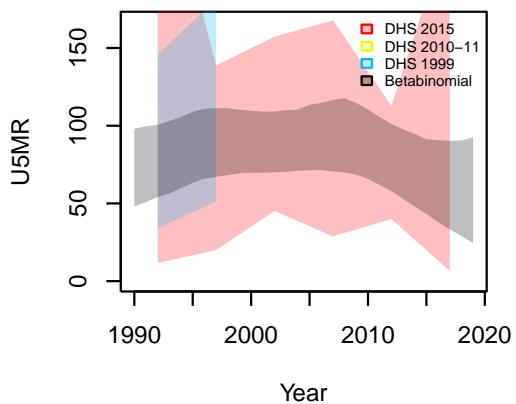
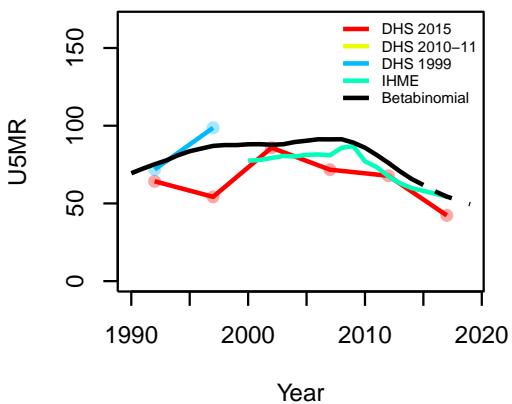
### Chirumhanzu, Midlands



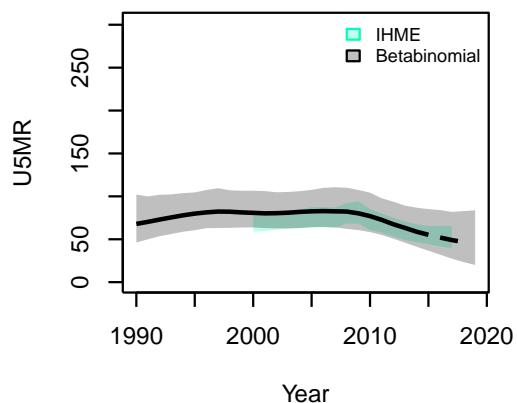
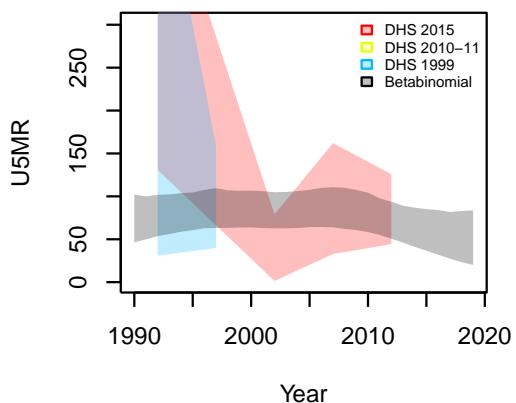
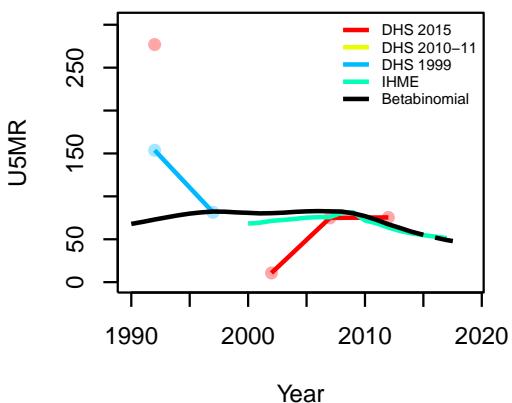
### Gokwe North, Midlands



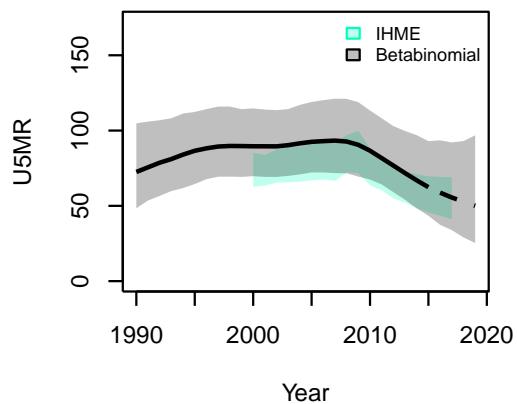
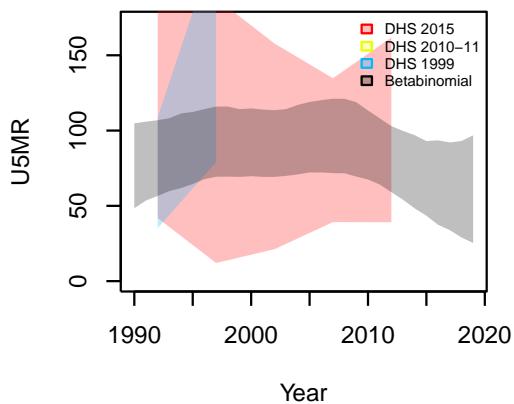
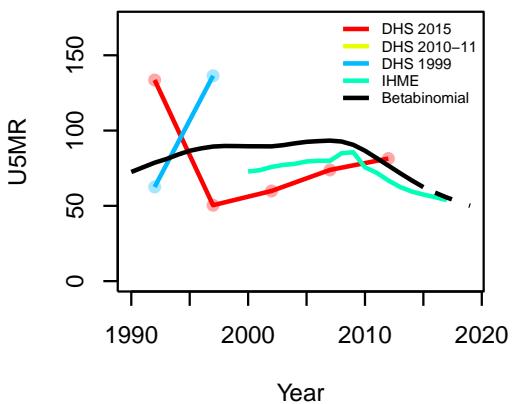
### Gokwe South, Midlands



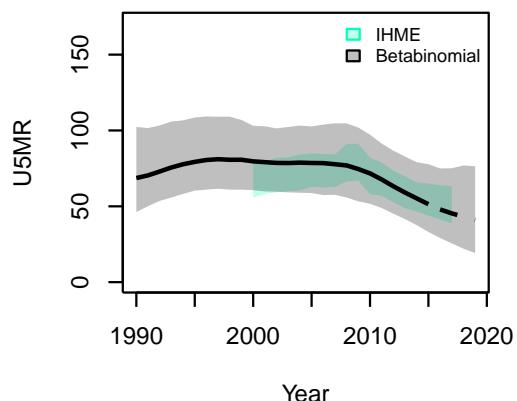
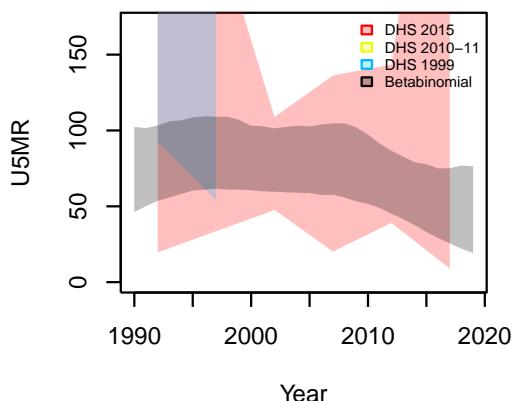
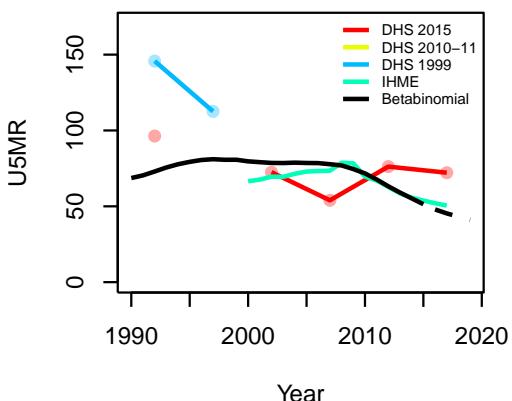
### Gweru, Midlands



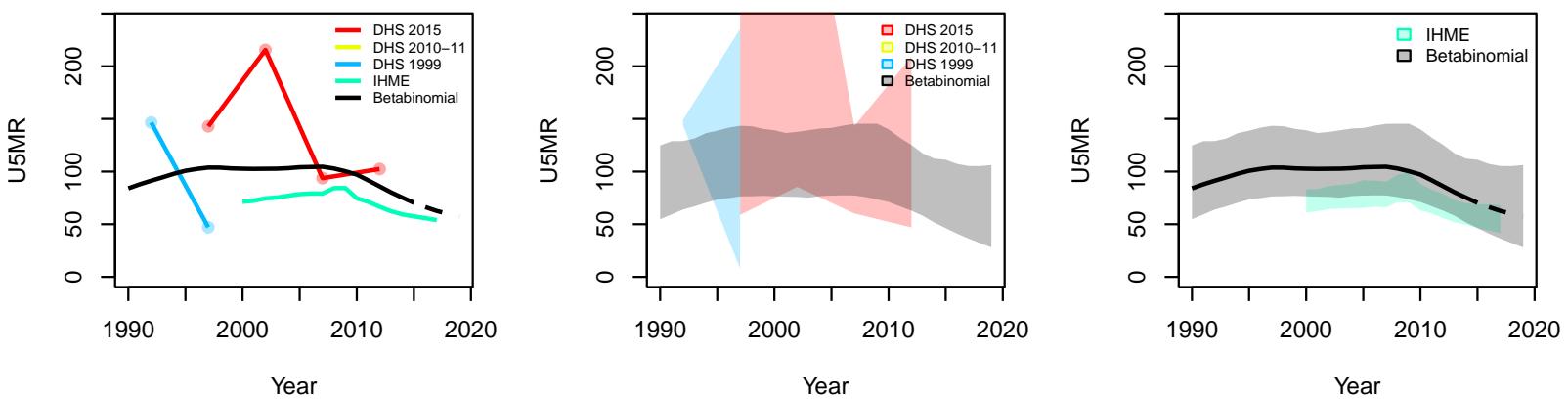
### Kwekwe, Midlands



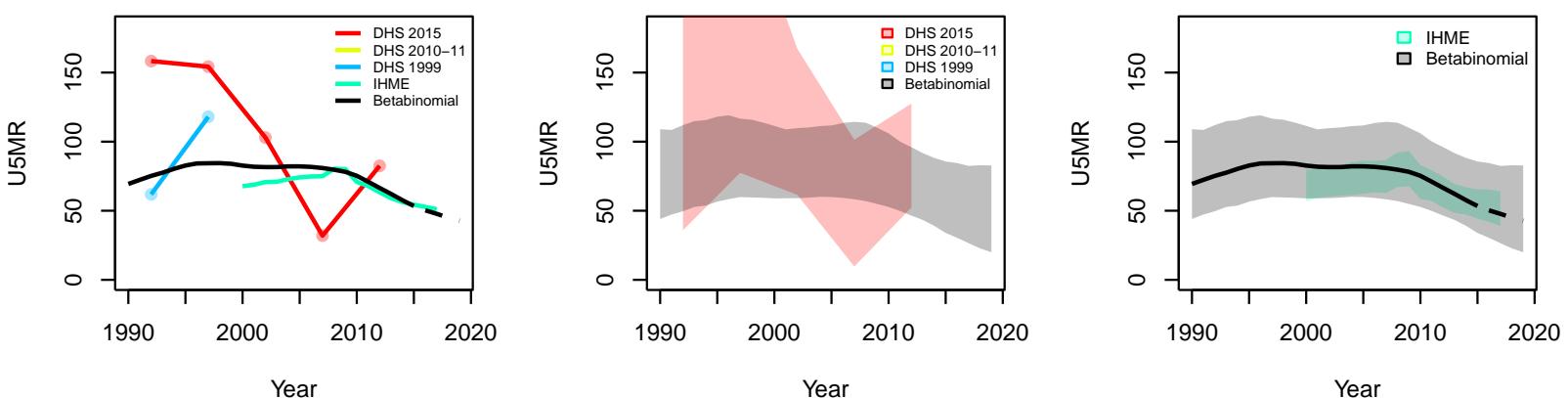
### Mberengwa, Midlands



### Shurugwi, Midlands



### Zvishavane, Midlands



## 4 National Figures and Results

	Median	Interval	Median-	Bench	Interval
0	27.00	(23.9,30.1)	28.70	(25.4,32.1)	
1-11	2.30	(2,2.6)	2.50	(2.2,2.8)	
12-23	1.00	(0.8,1.1)	1.00	(0.9,1.2)	
24-35	0.60	(0.5,0.7)	0.60	(0.5,0.7)	
36-47	0.30	(0.2,0.3)	0.30	(0.2,0.3)	
48-59	0.20	(0.2,0.3)	0.20	(0.2,0.3)	

Table 5: Monthly hazards in terms of 1000 children by age band for national, unstratified model for Zimbabwe.

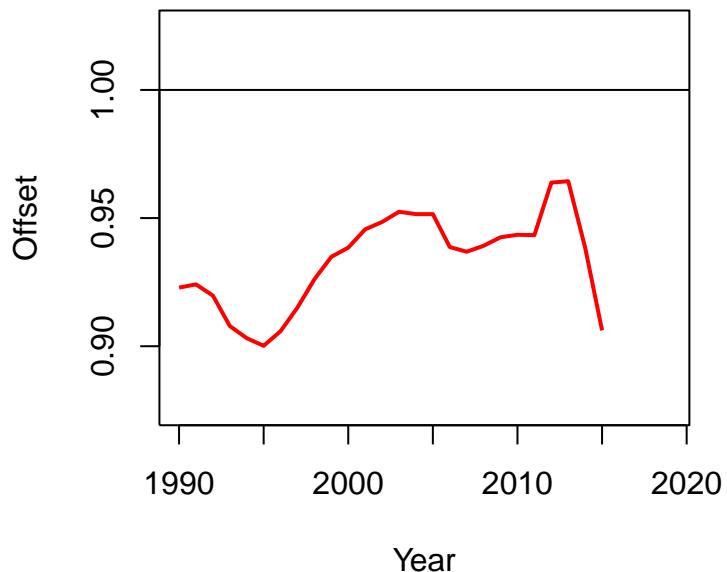


Figure 7: Benchmark offsets:  $\text{BENCH}(t) = \text{U5MR}^*(t)/\text{U5MR}(t)$  where  $\text{U5MR}^*(t)$  is modeled estimate and  $\text{U5MR}(t)$  is UN-IGME estimate.

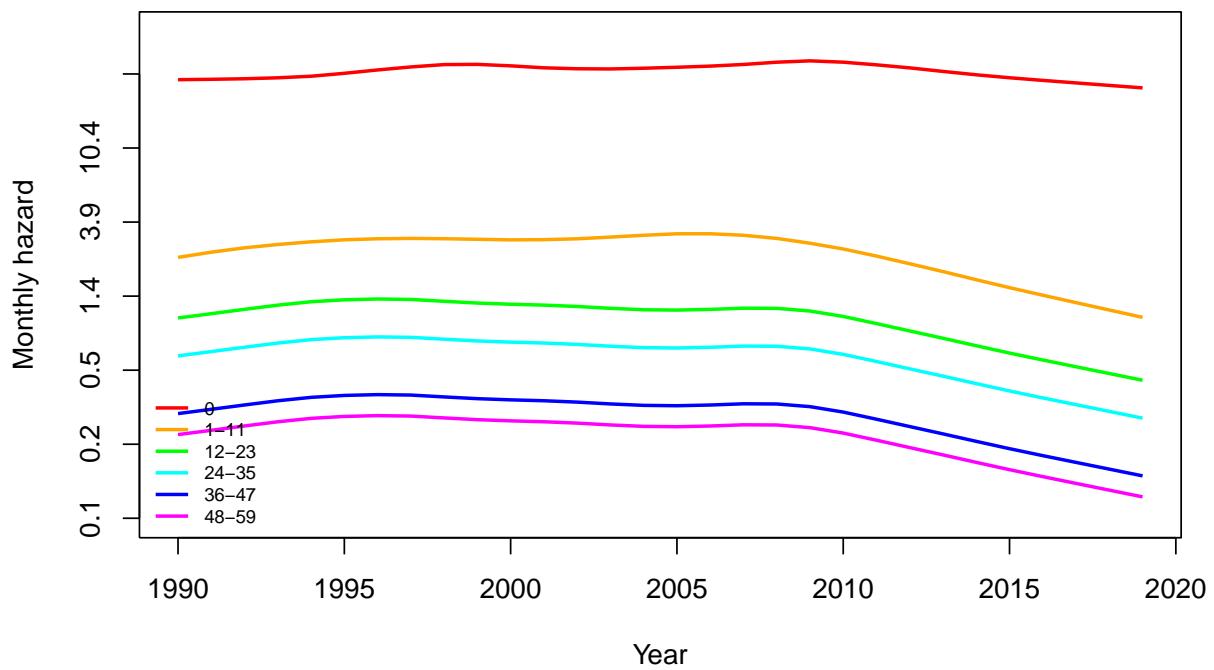


Figure 8: Monthly hazards of death in terms of U5MR (number deaths per 1000 children) by agebands.

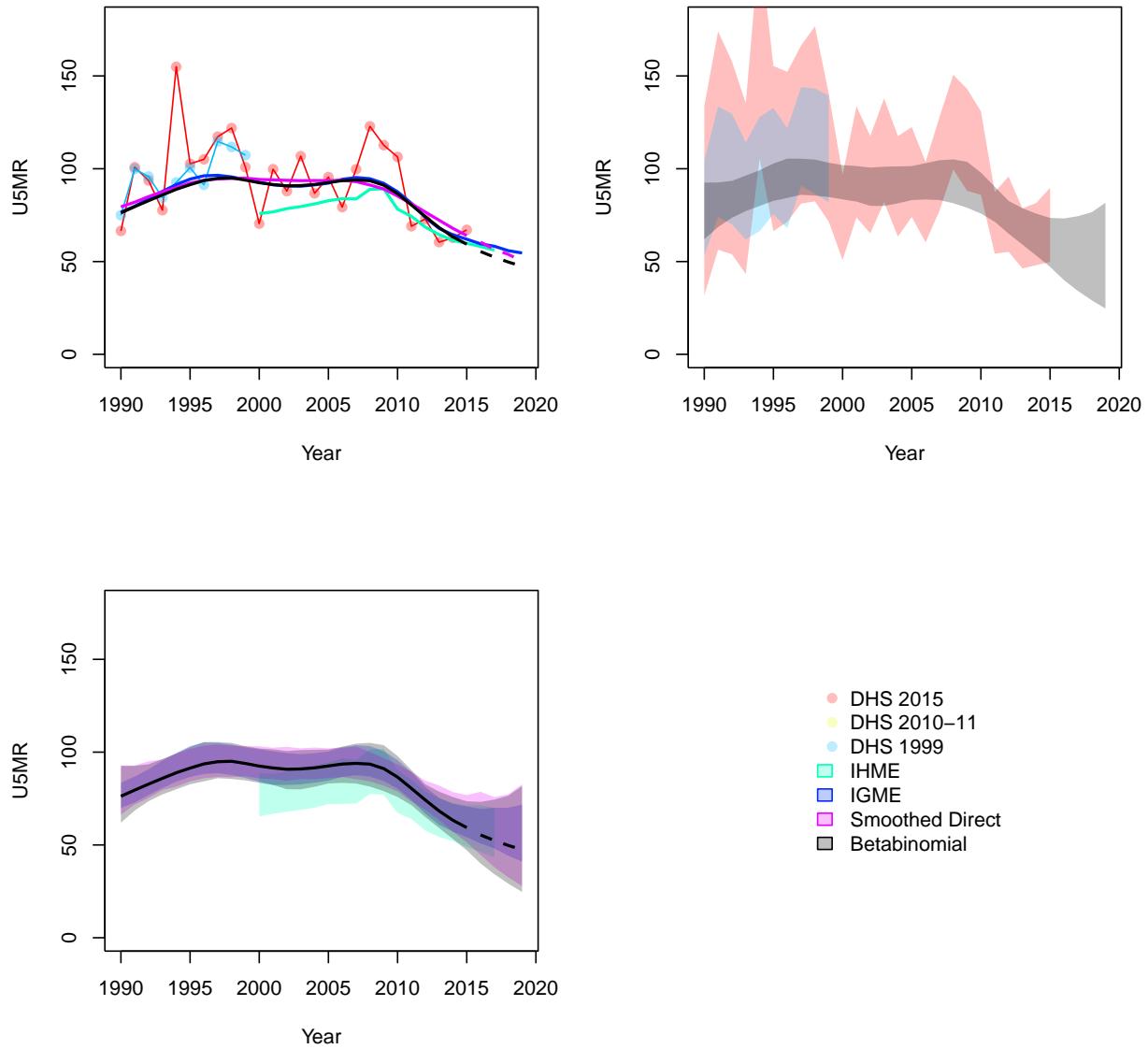
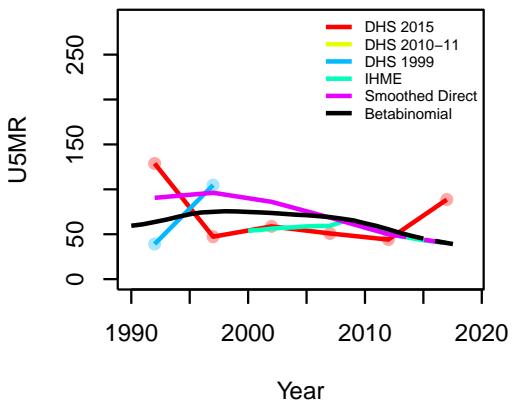


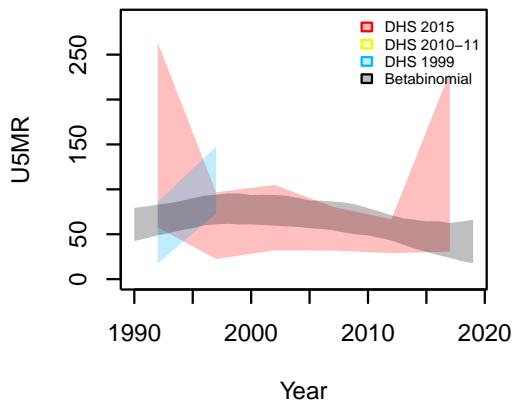
Figure 9: Benchmarked U5MR rates per 1000 live births. Top: DHS direct estimates with national trends from IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates. Middle: 95% uncertainty intervals for DHS data. Bottom: IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates with for the unstratified model. 95% uncertainty intervals

## 5 Admin 1 Figures

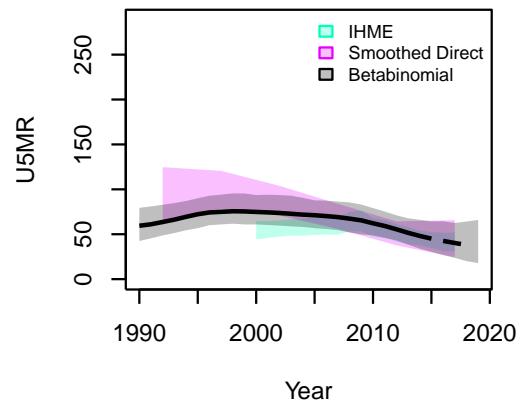
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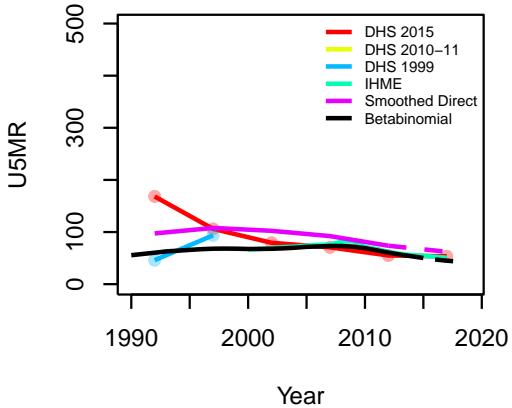
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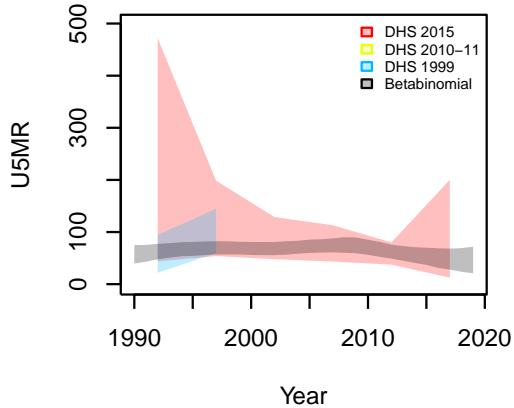
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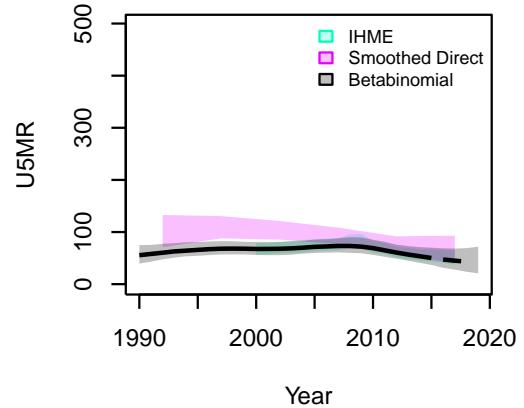
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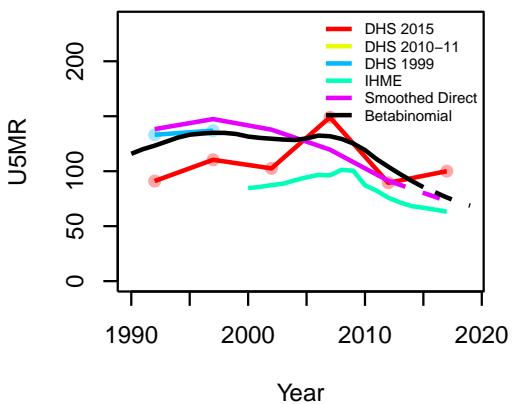
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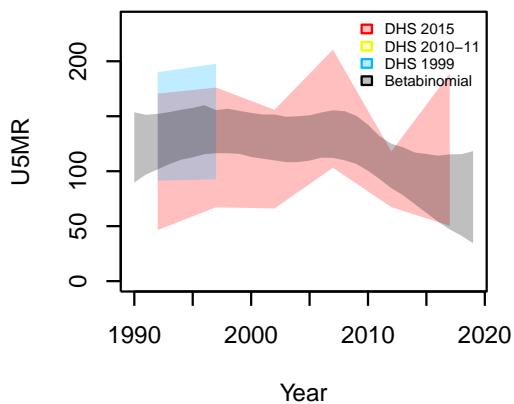
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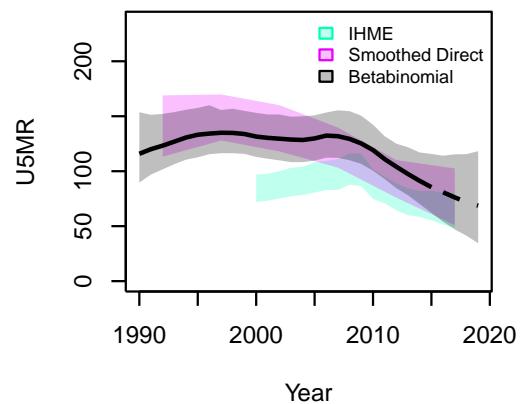
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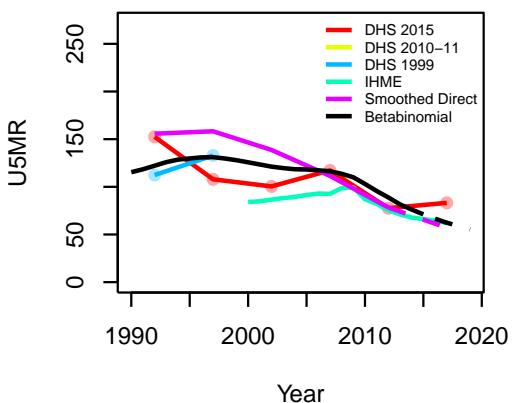
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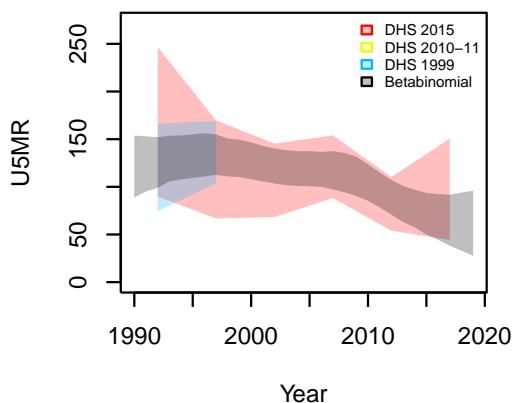
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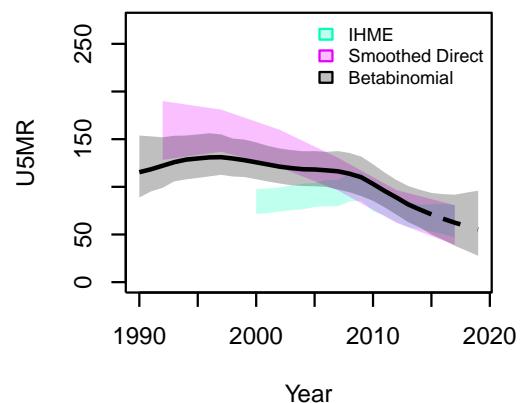
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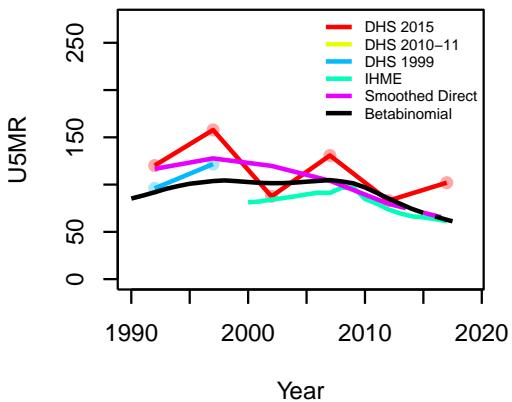
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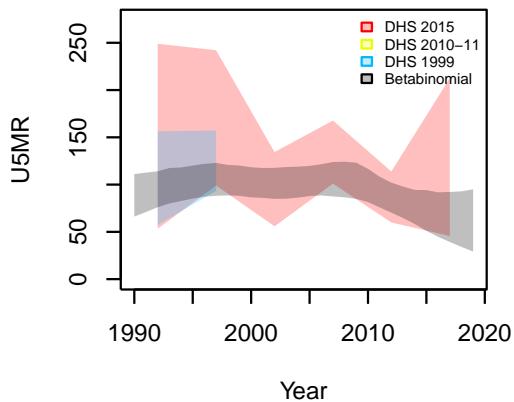
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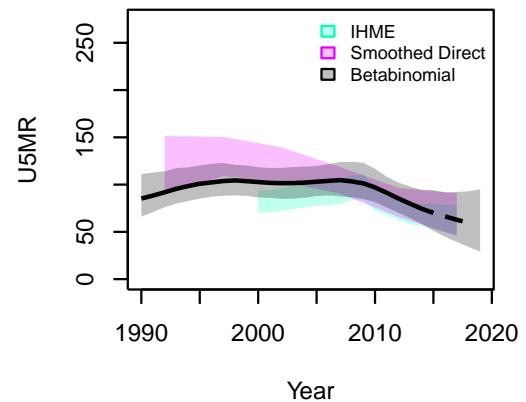
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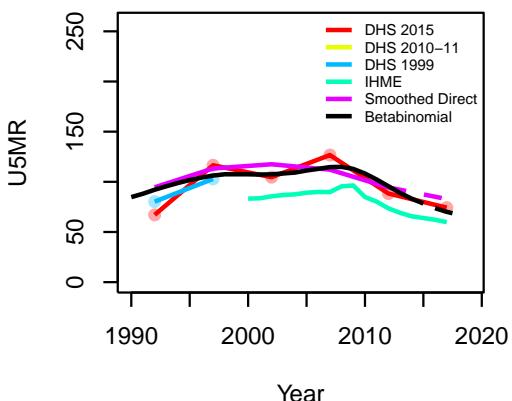
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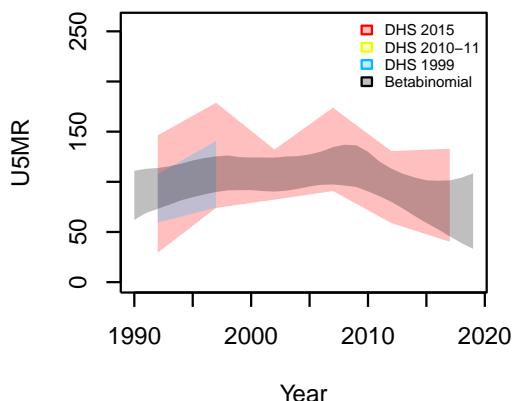
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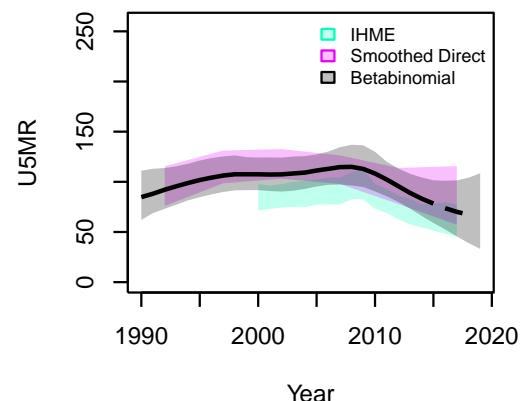
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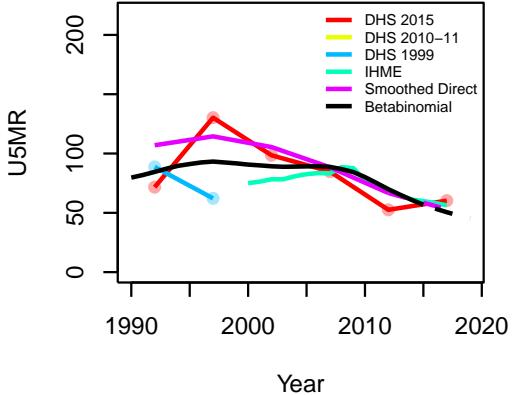
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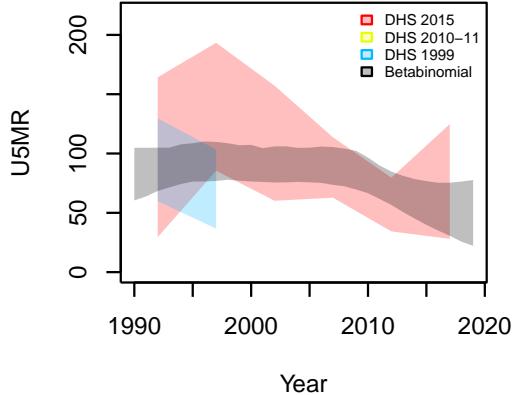
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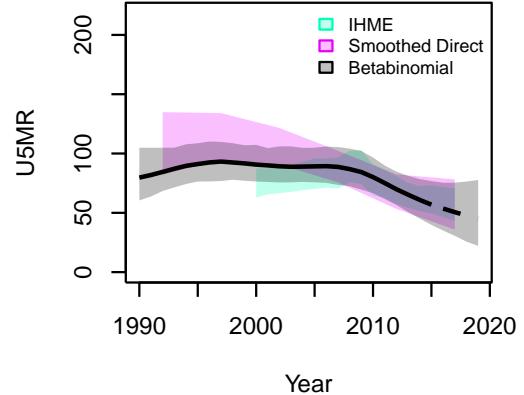
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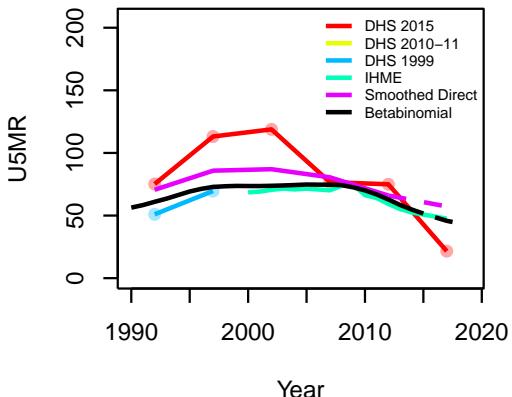
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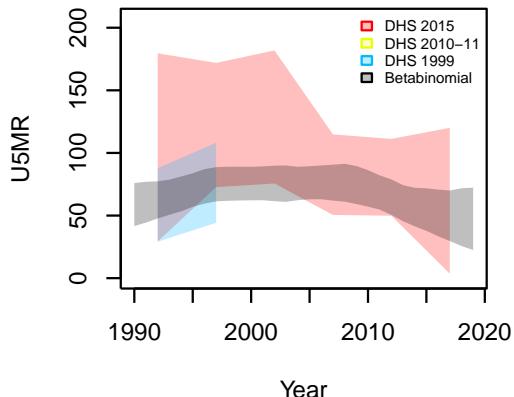
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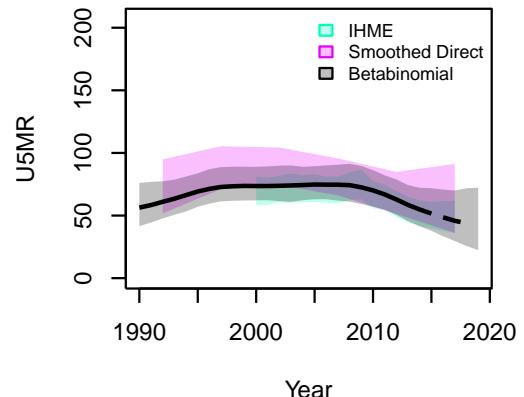
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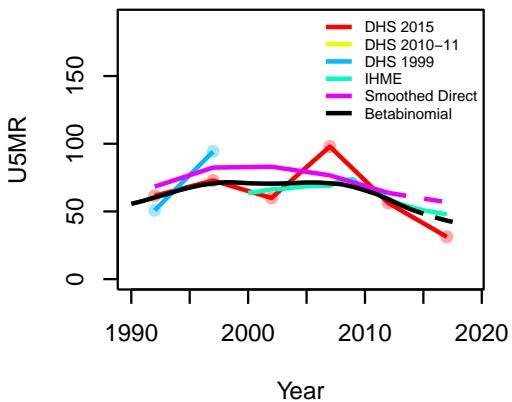
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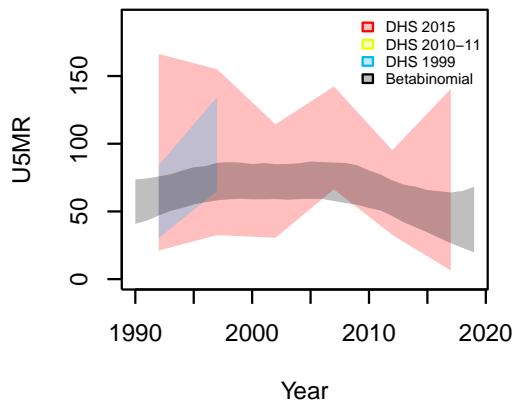
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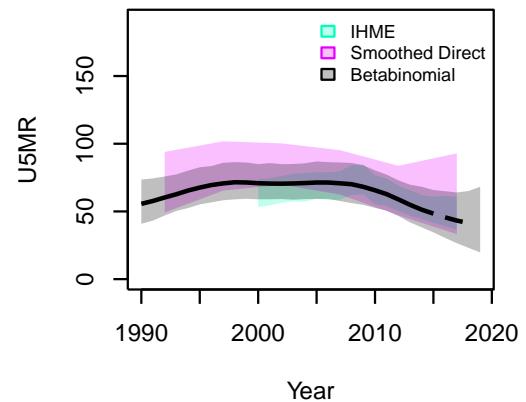
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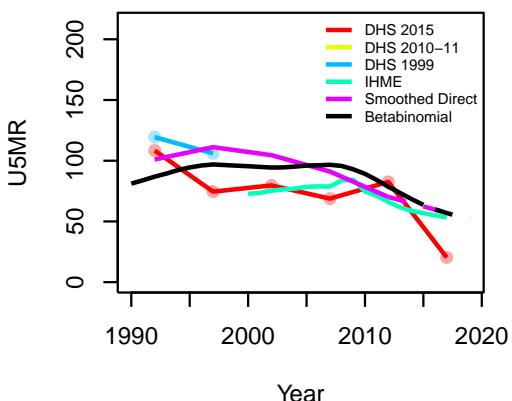
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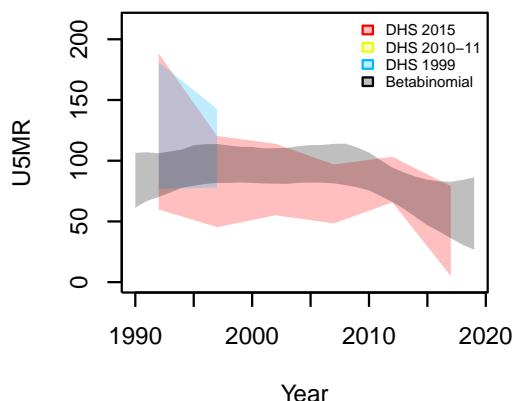
### Matabeleland South



### Midlands



### Midlands



### Midlands

