

Country Summary: Namibia

Contents

1	Intro	1
2	National Survey Data	16
3	Admin 2 Figures	17
4	National Figures and Results	72
5	Admin 1 Figures	75

1 Intro

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

Namibia has 13 Admin 1 areas and 107 Admin 2 areas.

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

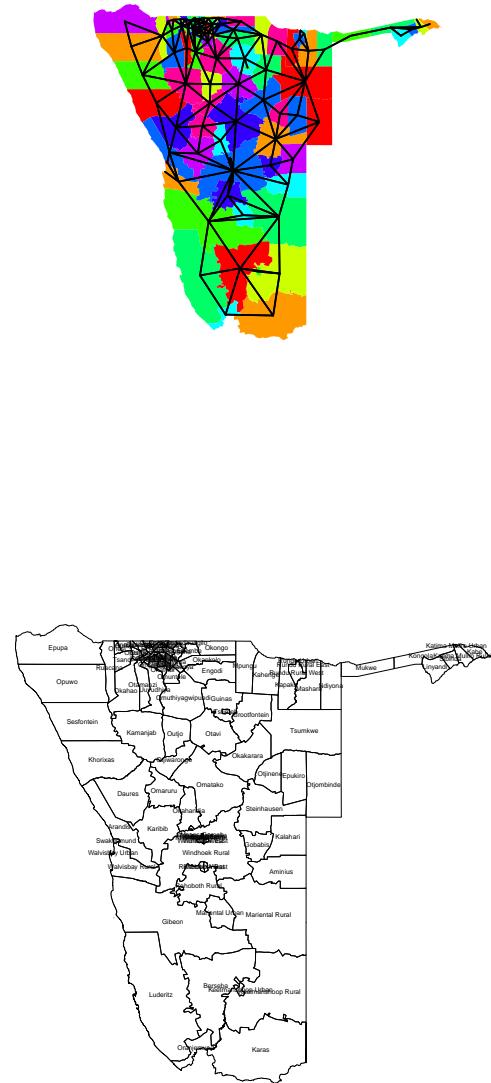


Figure 1: Top: The neighborhood structure of Admin 2 areas. Bottom: The names of Admin 2 areas.

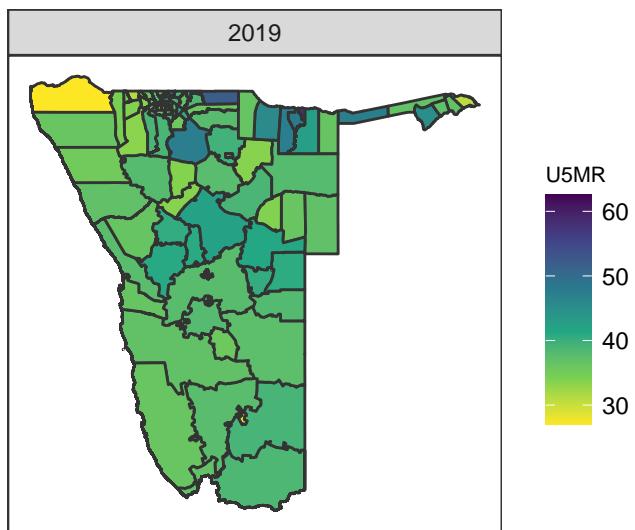
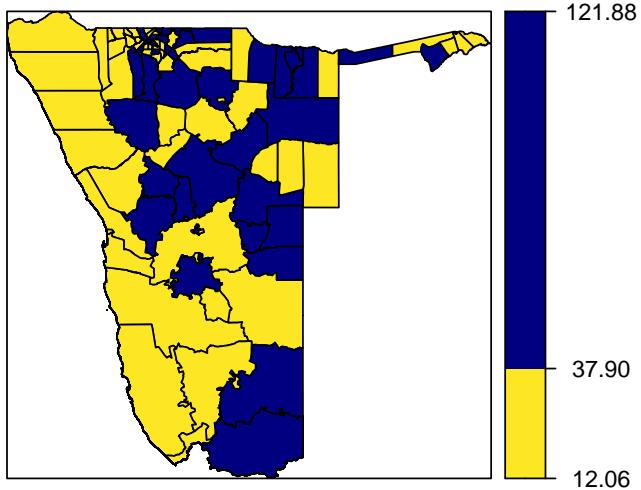


Figure 2: Median estimates of U5MR (deaths per 1000 children) in 2019.

ATCP = 0.56



ATCP = 0.40

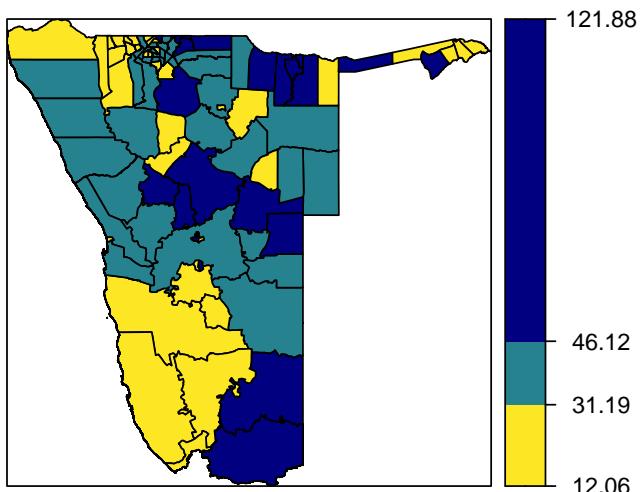


Figure 3: Expression of uncertainty of U5MR (deaths per 1000 children) based on the average true classification probability (ATCP) in 2019.

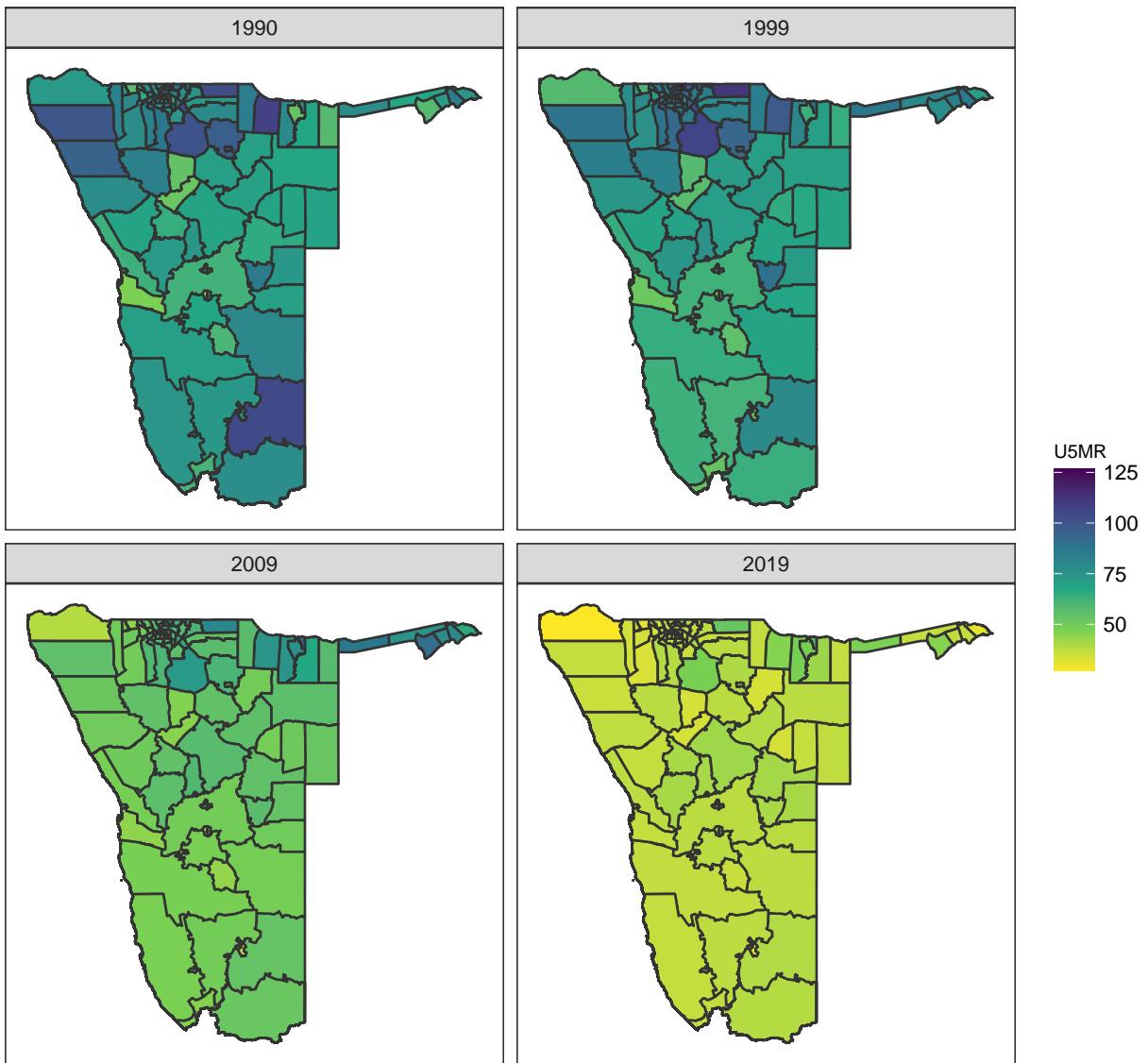
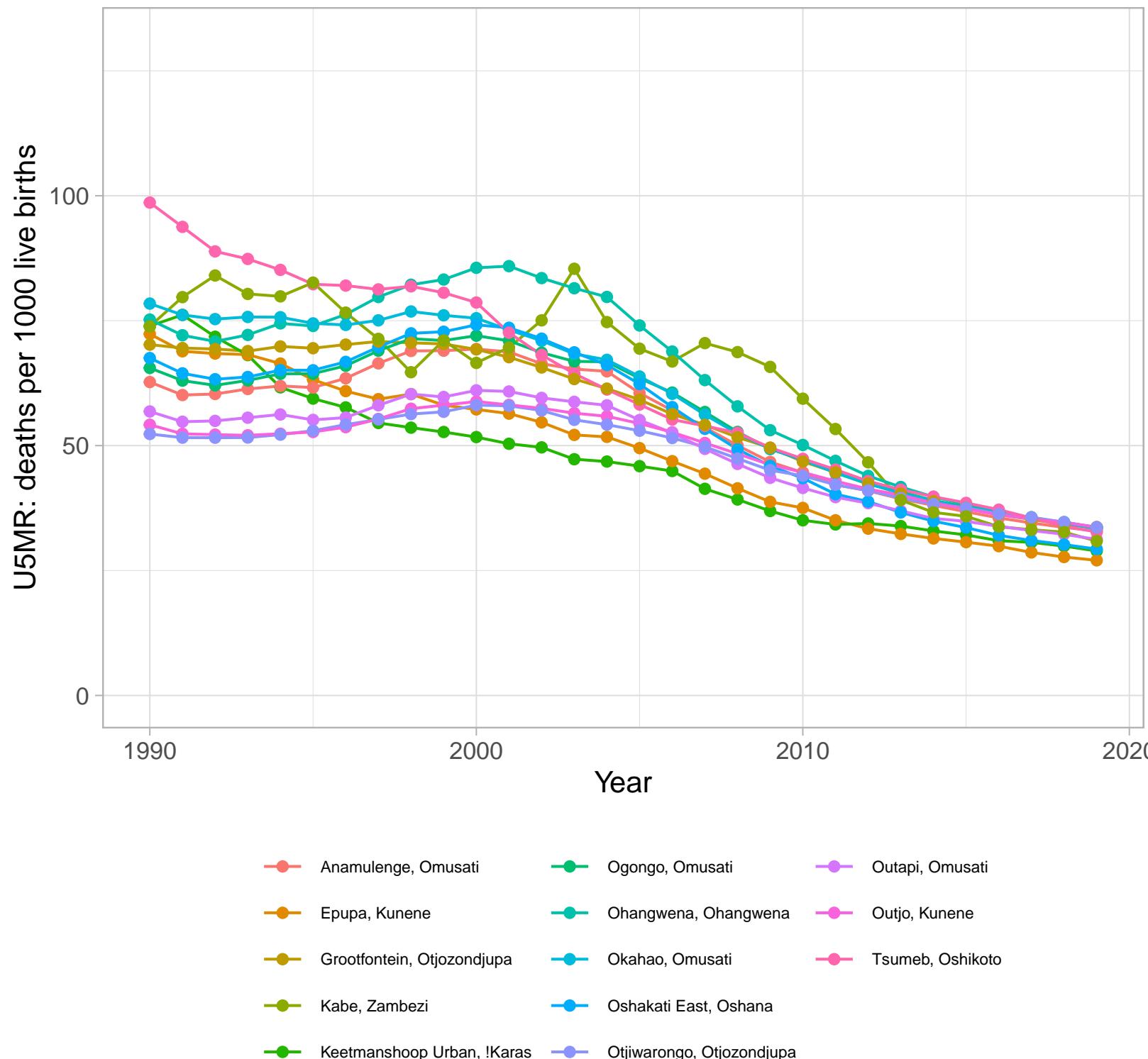
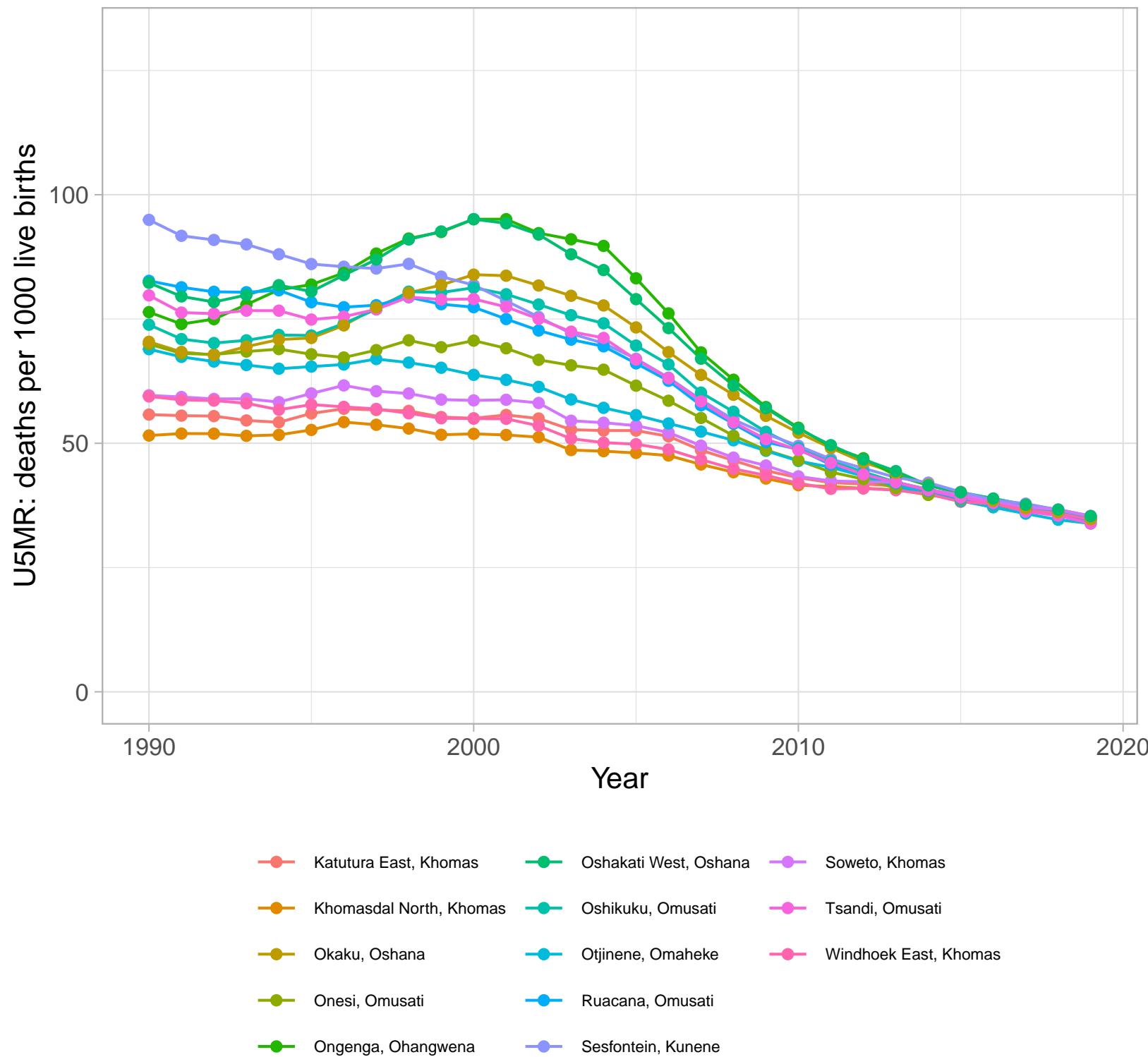


Figure 4: Median estimates for selected years.

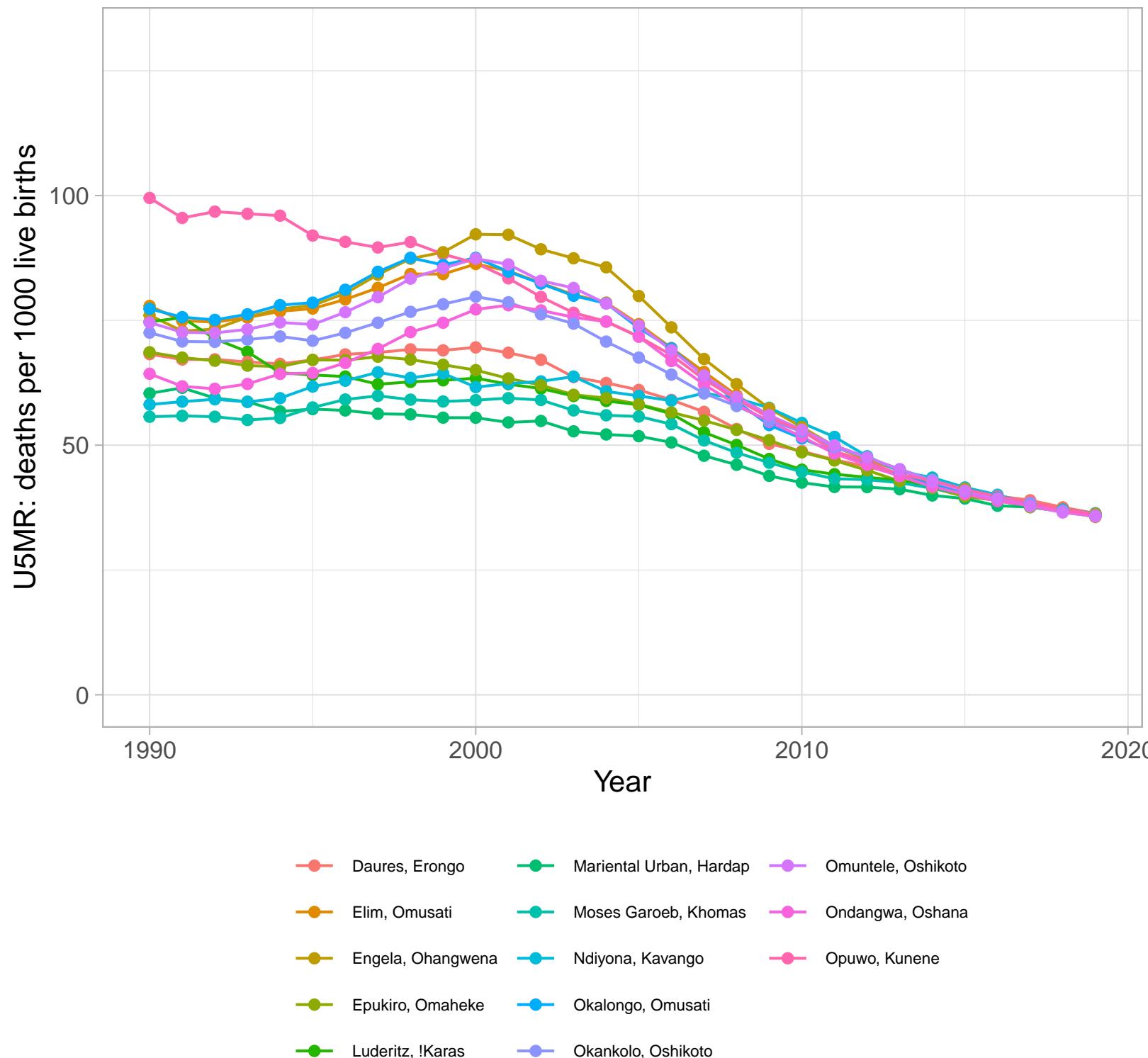
Namibia



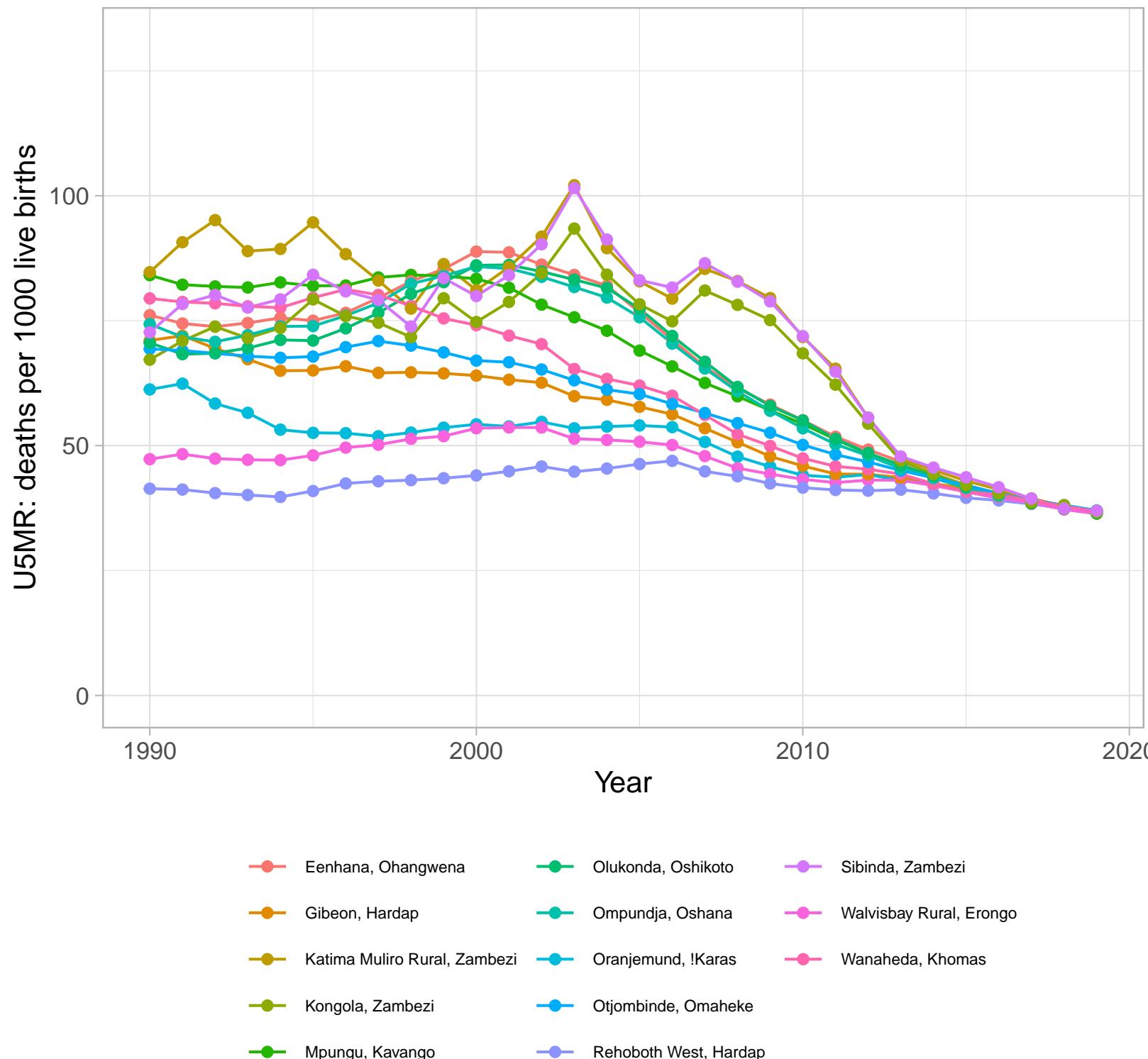
Namibia



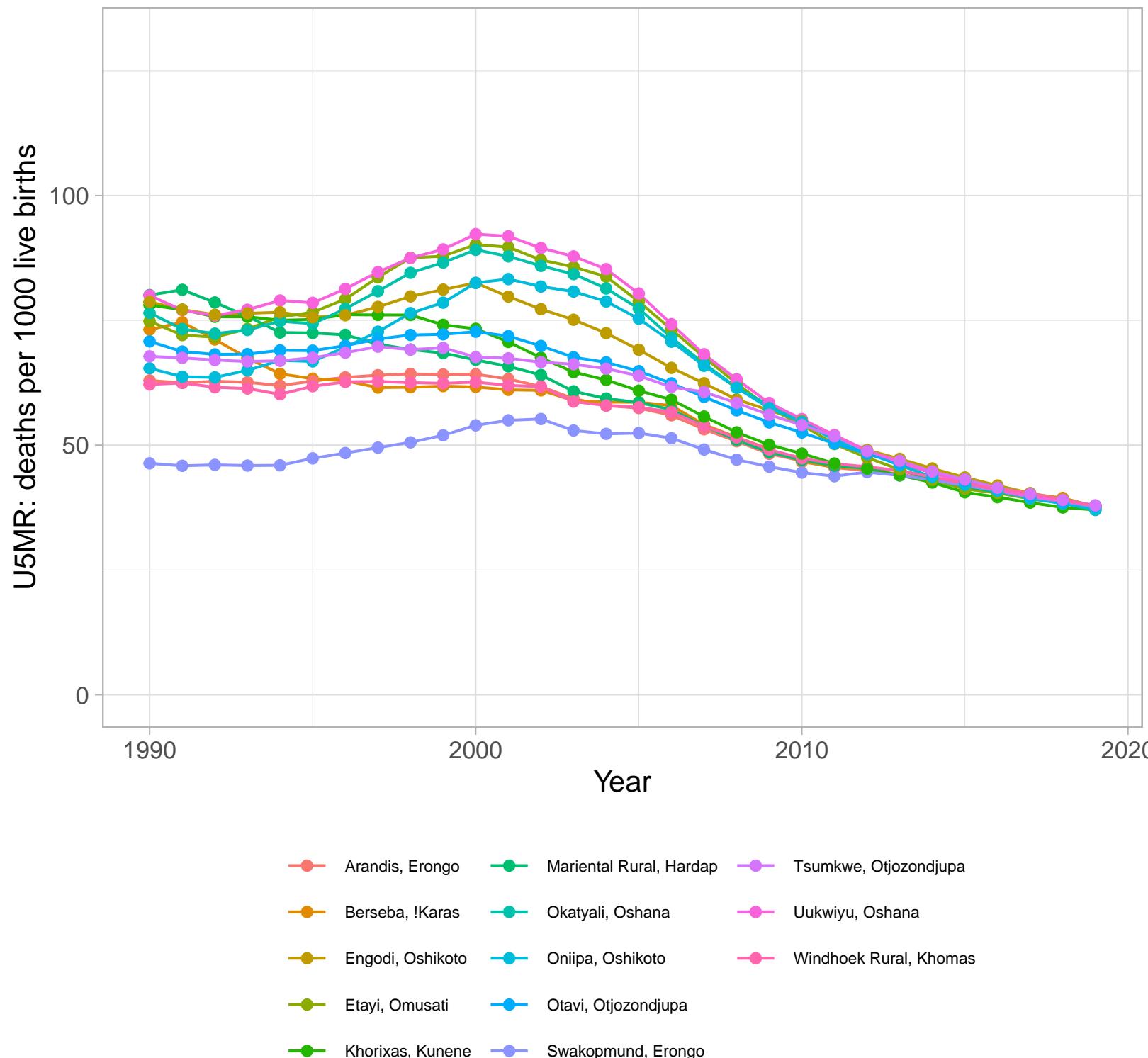
Namibia



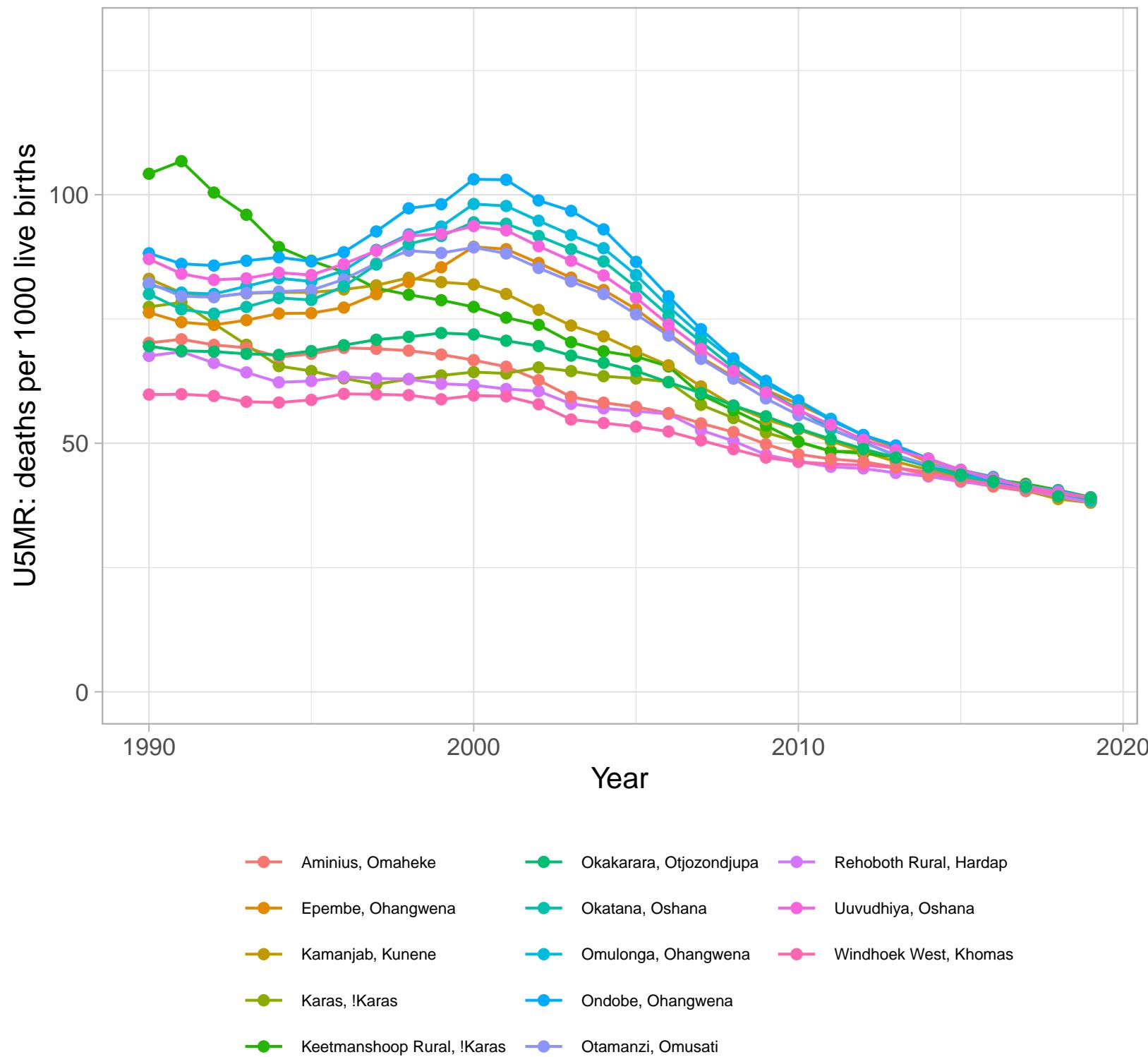
Namibia



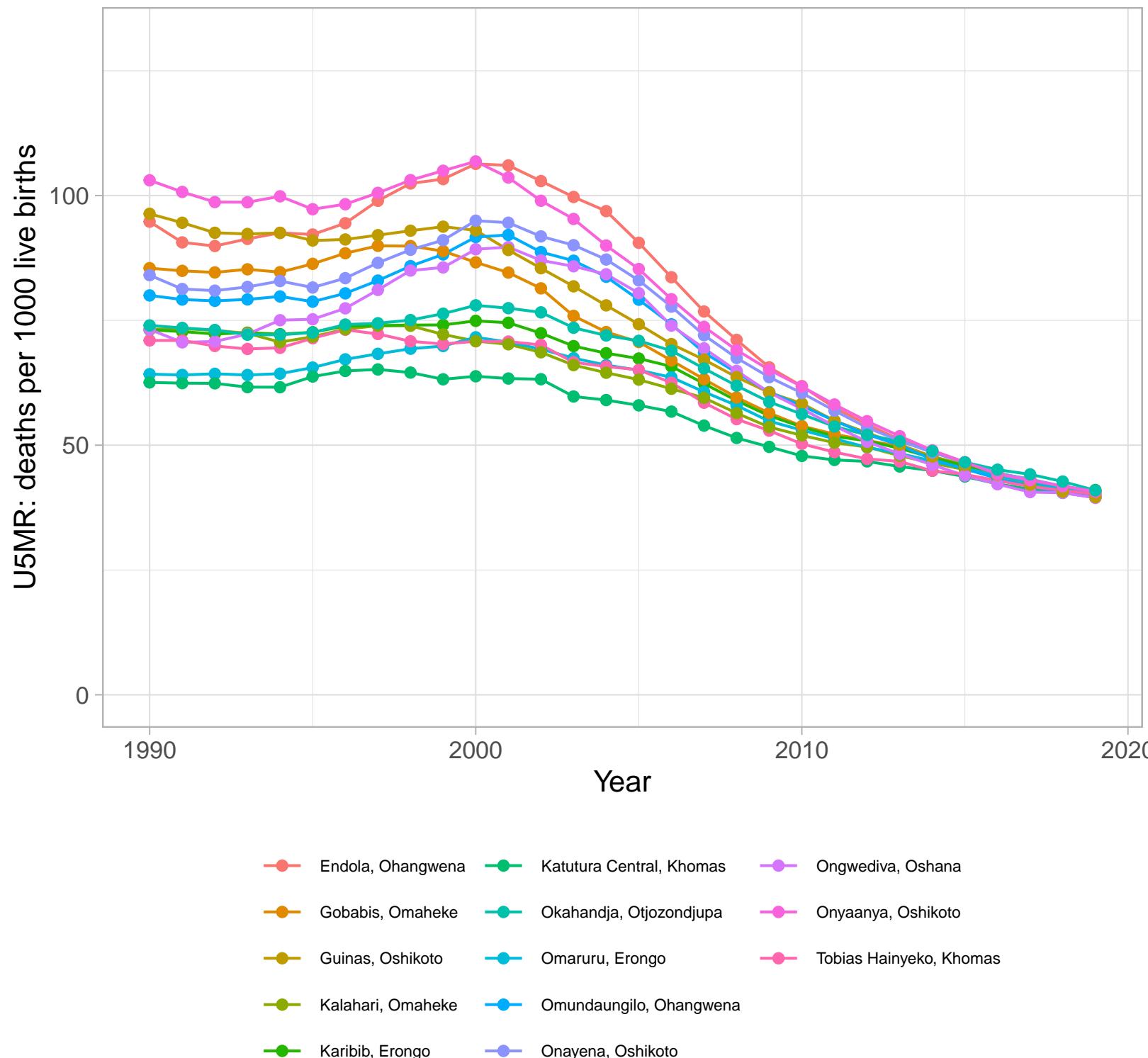
Namibia



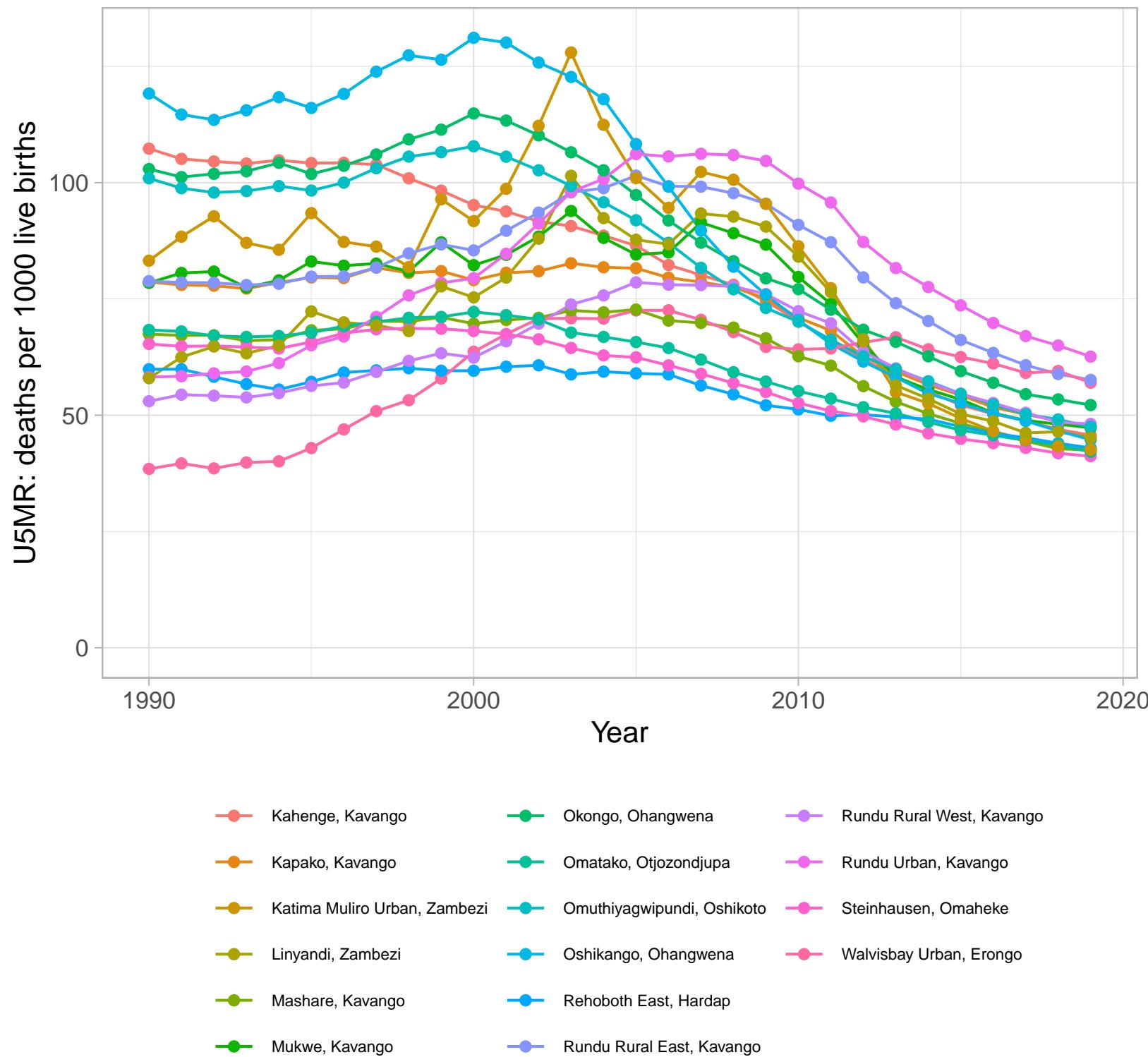
Namibia



Namibia



Namibia



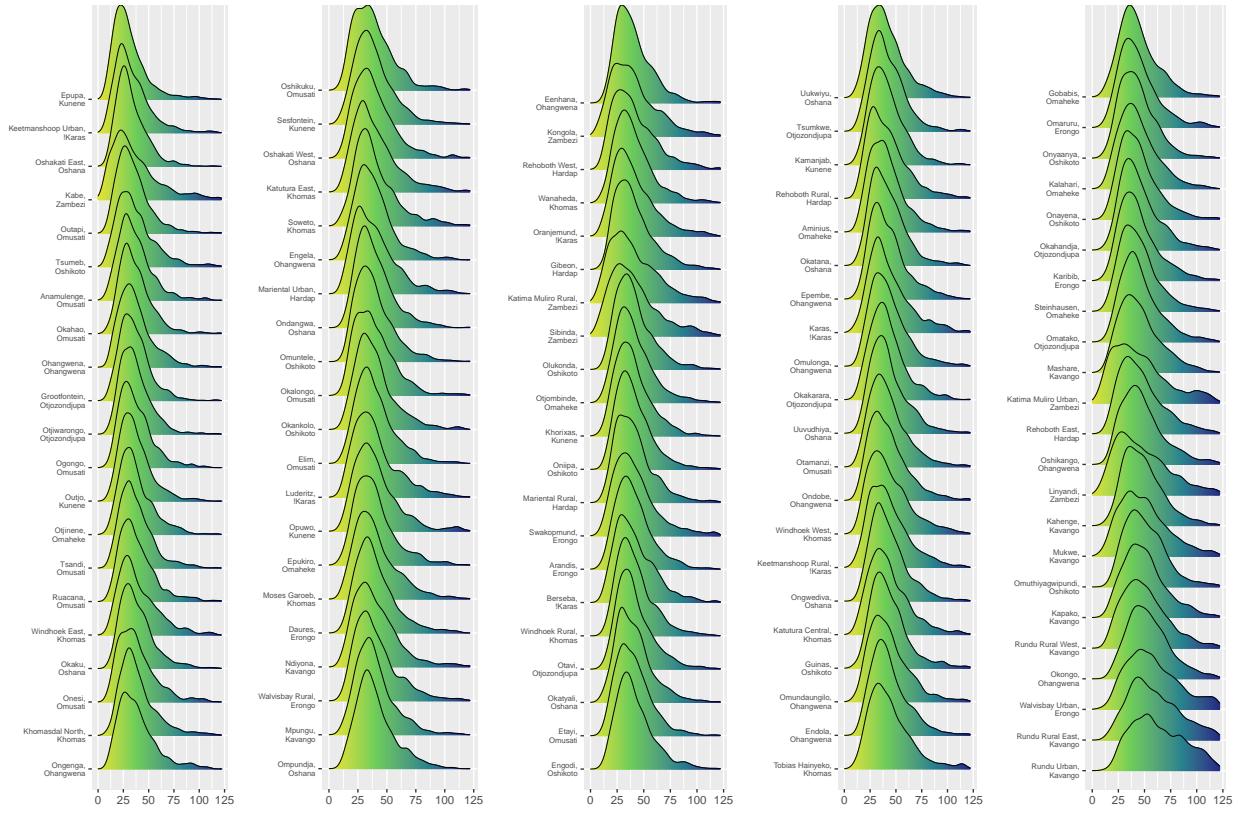


Figure 5: Posterior distributions of U5MR (deaths per 1000 children) in 2019. Areas are ordered by median estimated U5MR in 2019.

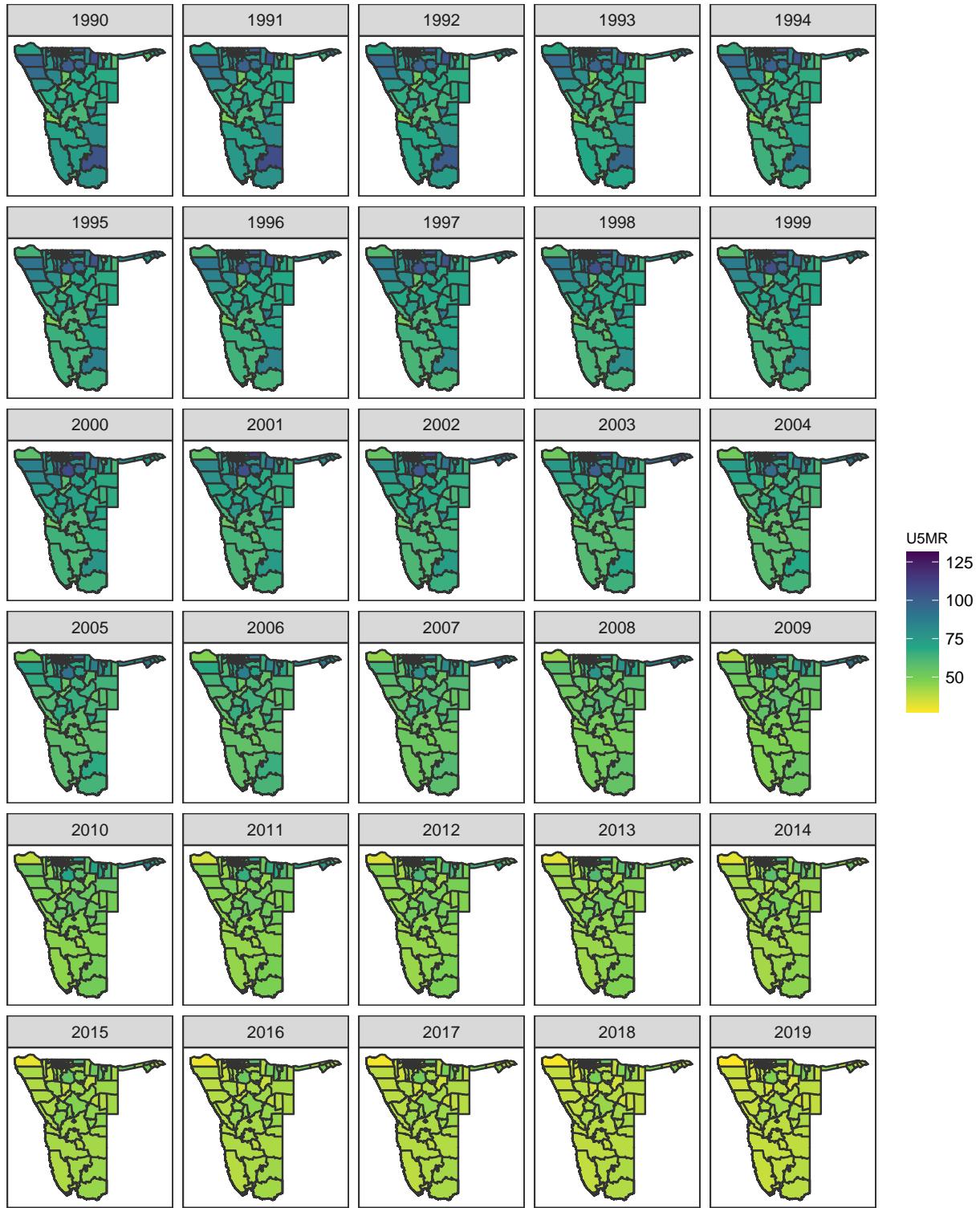


Figure 6: Posterior medians of U5MR (deaths per 1000 births) by Admin 2 area and year.

2 National Survey Data

Survey	Urban	Rural	Total
2000	106	153	259
2006-07	208	283	491
2013	267	282	549

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

Age	No. Deaths	No. Agemonths
0	349	16954
1-11	332	176029
12-23	127	179730
24-35	54	169635
36-47	48	159154
48-59	20	149773

Table 2: Numbers of agemonths and deaths by age for DHS 2013.

Age	No. Deaths	No. Agemonths
0	361	14946
1-11	334	155374
12-23	136	159487
24-35	78	152940
36-47	46	145610
48-59	29	138610

Table 3: Numbers of agemonths and deaths by age for DHS 2006-07.

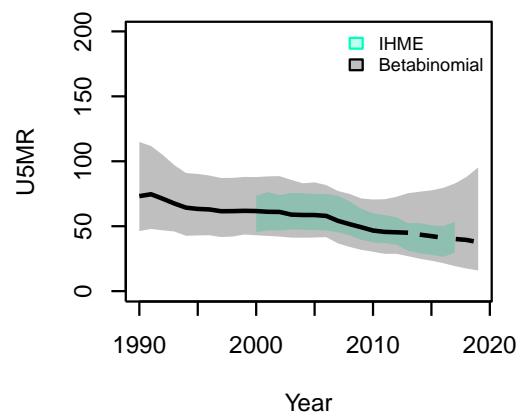
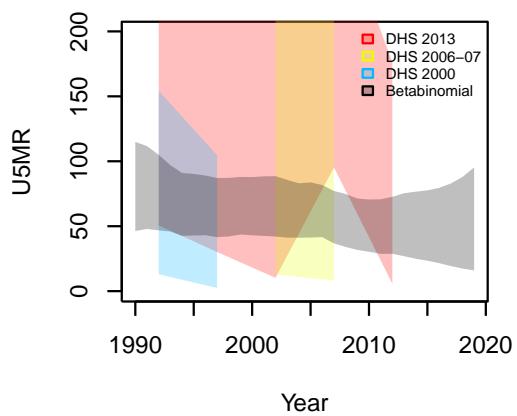
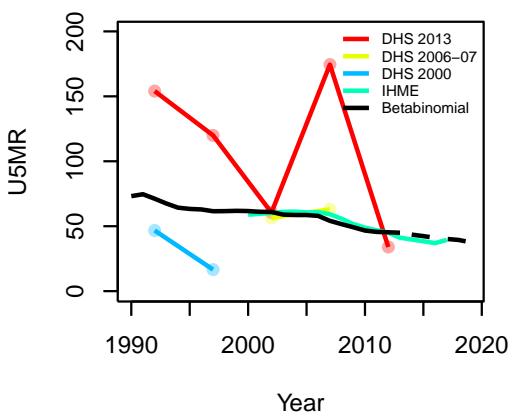
Age	No. Deaths	No. Agemonths
0	201	8449
1-11	158	88317
12-23	68	91506
24-35	42	88542
36-47	24	85487
48-59	17	82410

Table 4: Numbers of agemonths and deaths by age for DHS 2000.

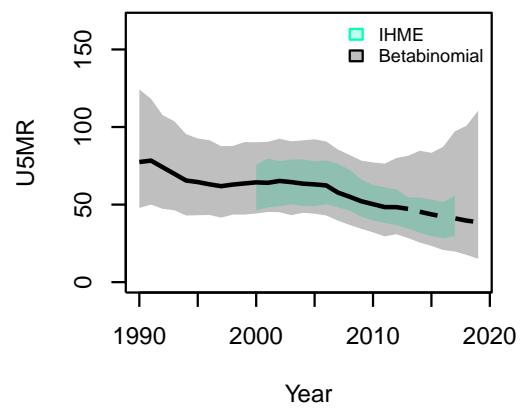
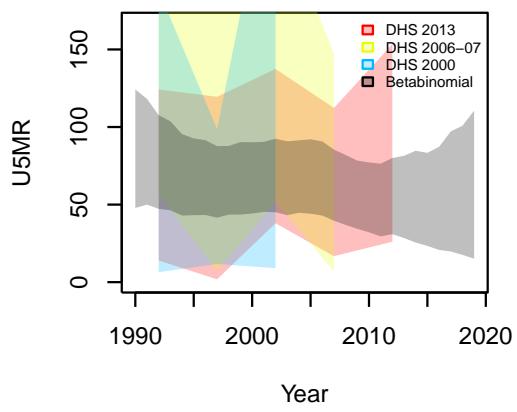
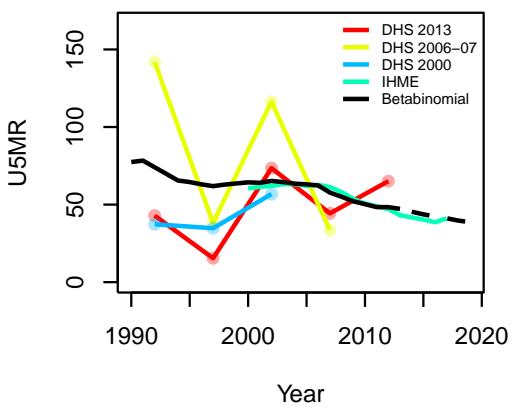
3 Admin 2 Figures

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.

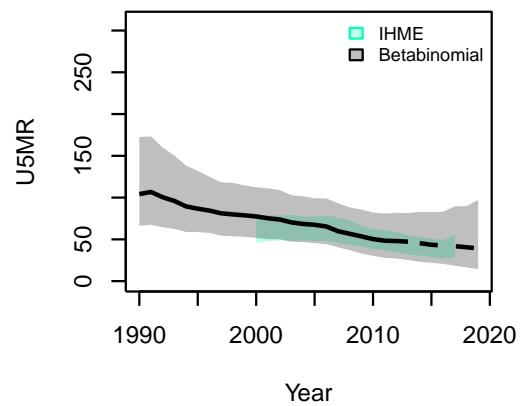
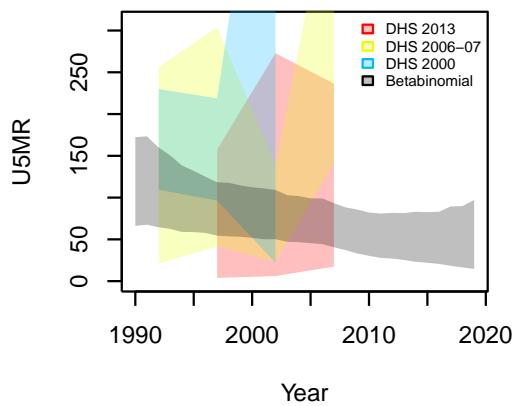
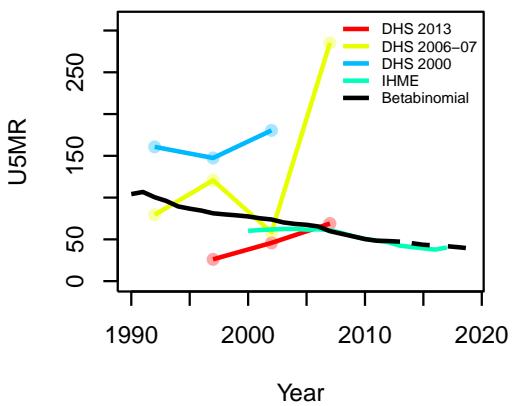
Berseba, !Karas



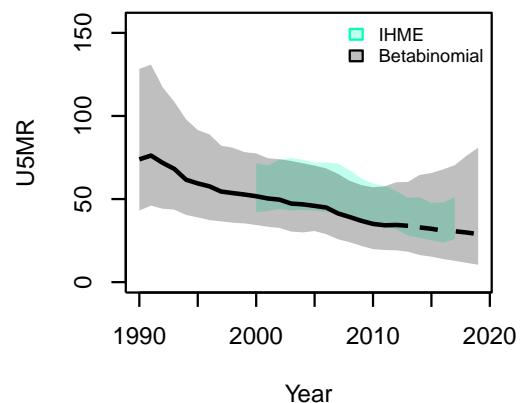
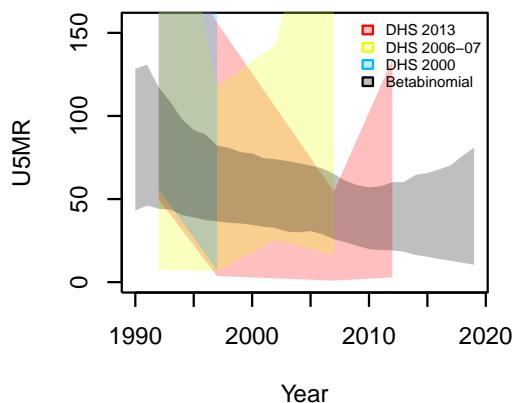
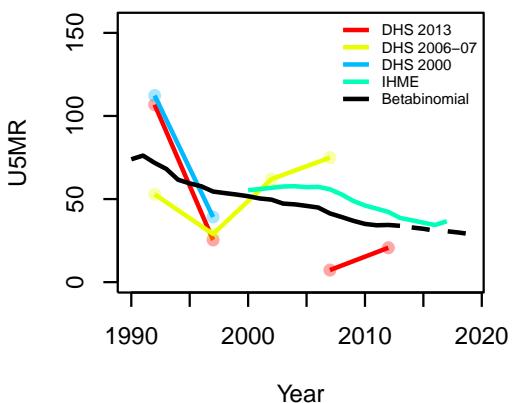
Karas, !Karas



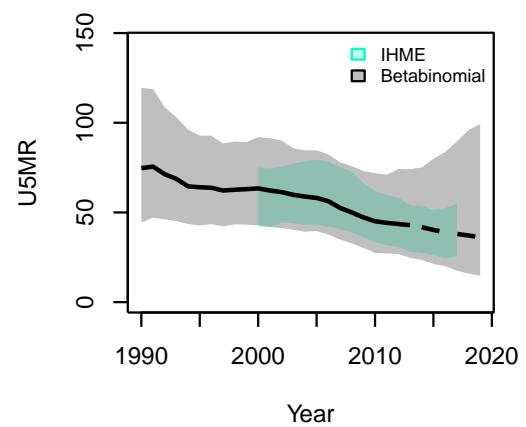
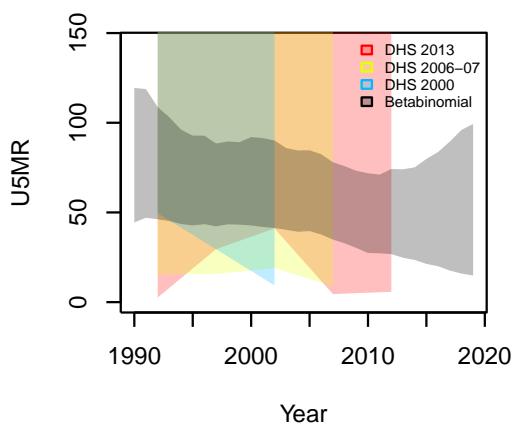
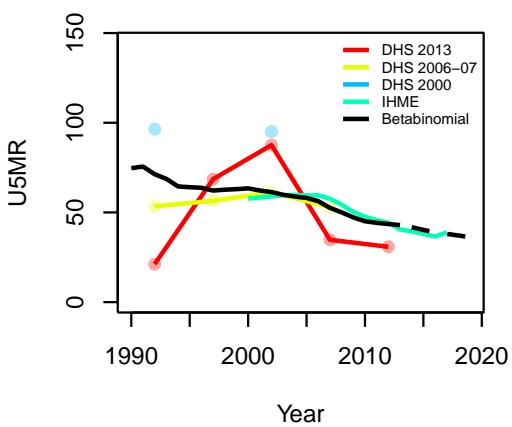
Keetmanshoop Rural, !Karas



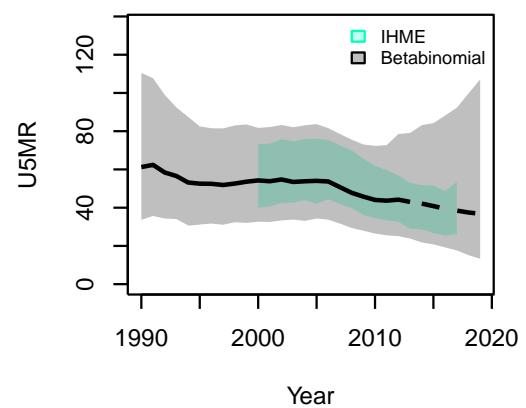
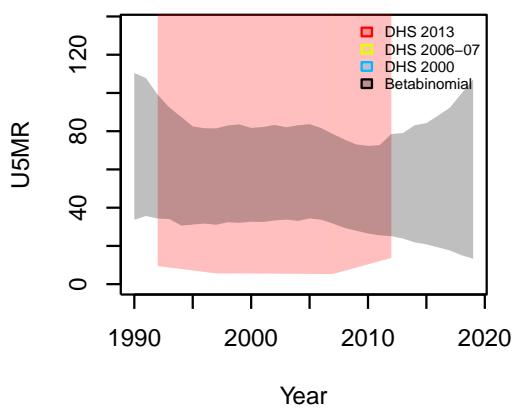
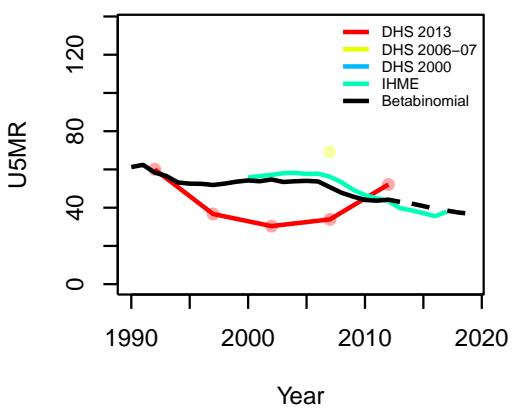
Keetmanshoop Urban, !Karas



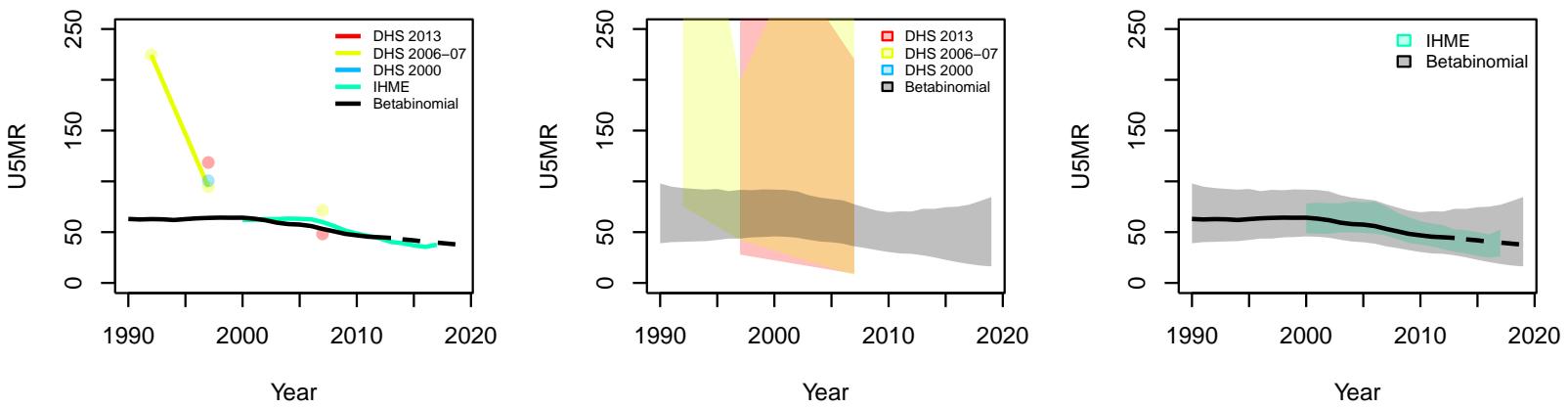
Luderitz, !Karas



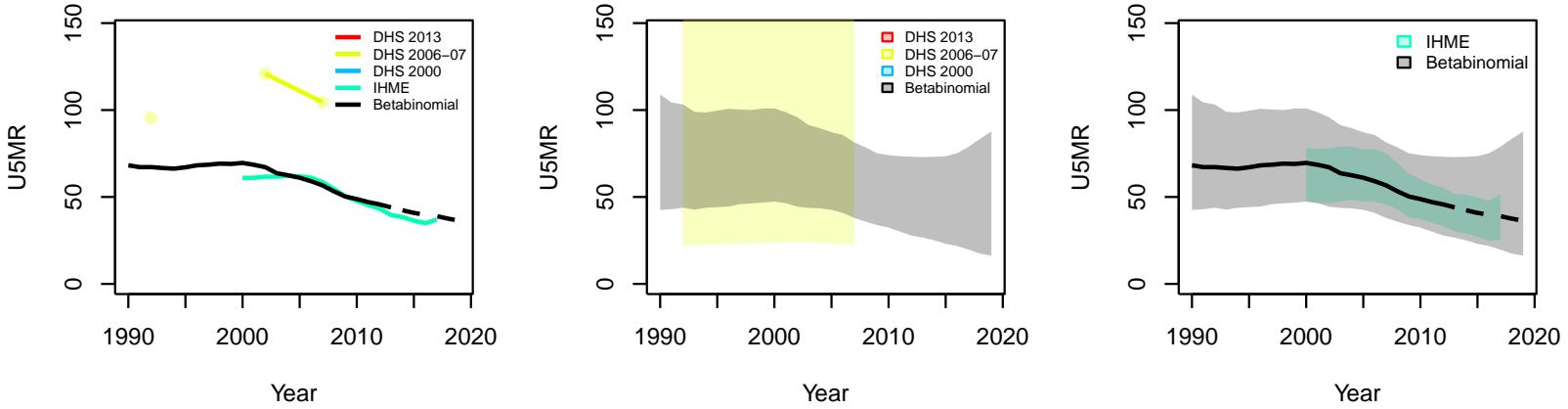
Oranjemund, !Karas



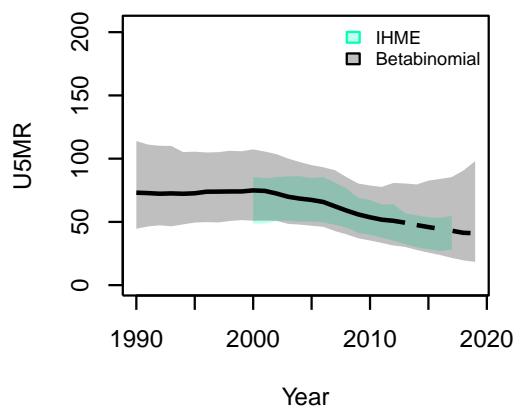
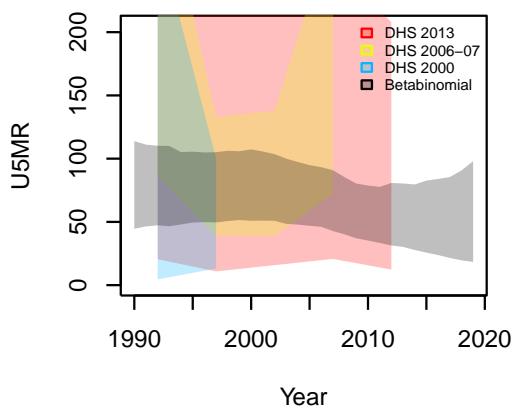
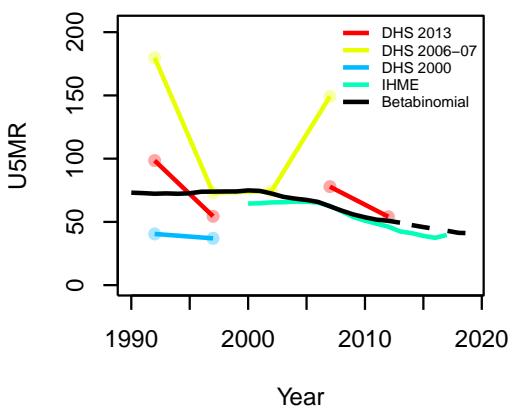
Arandis, Erongo



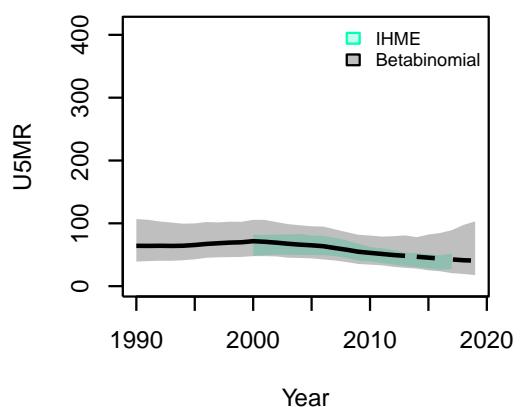
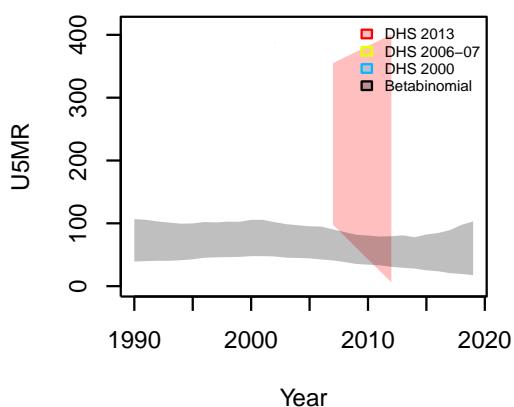
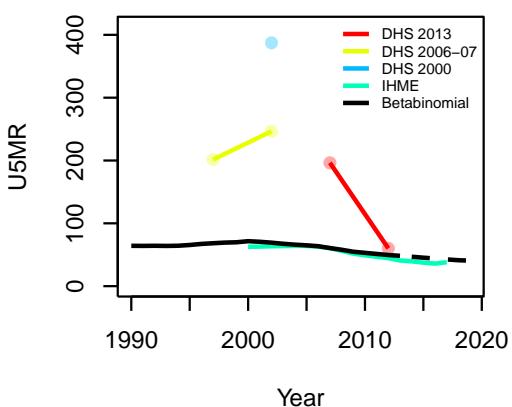
Draures, Erongo



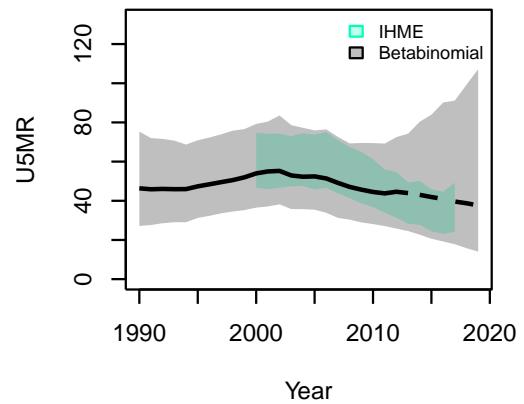
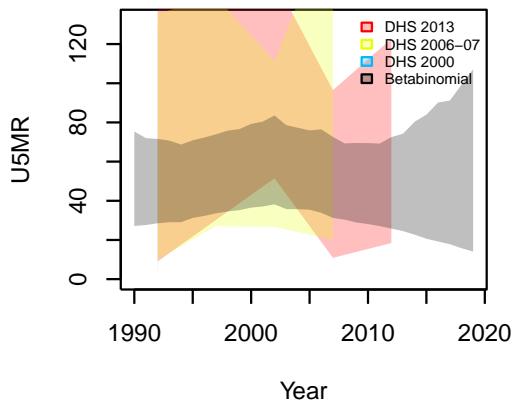
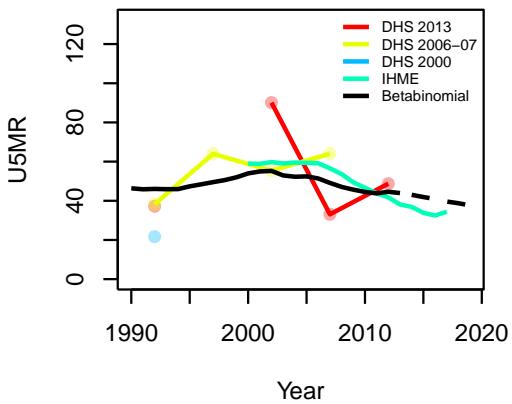
Karibib, Erongo



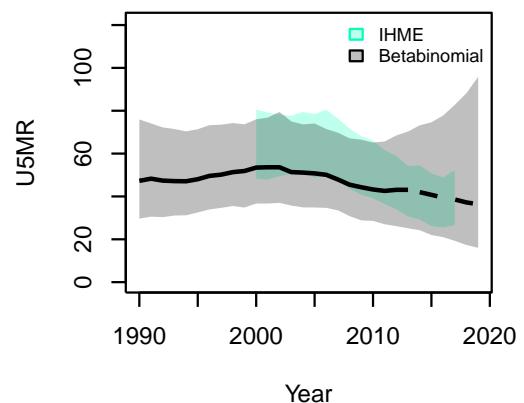
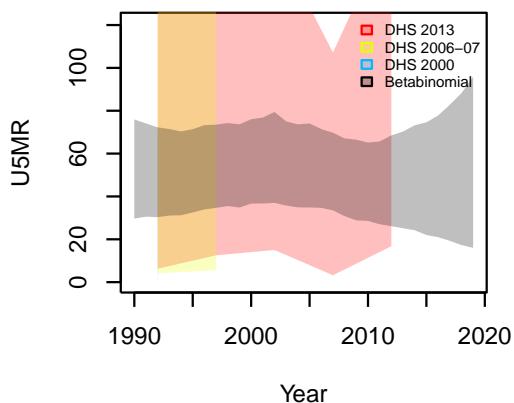
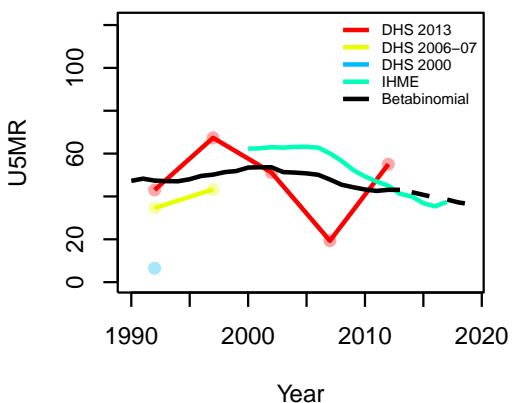
Omaruru, Erongo



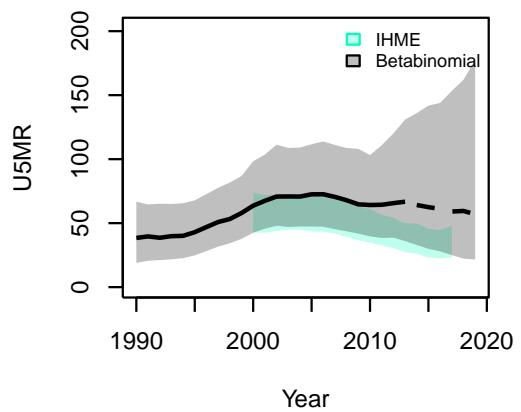
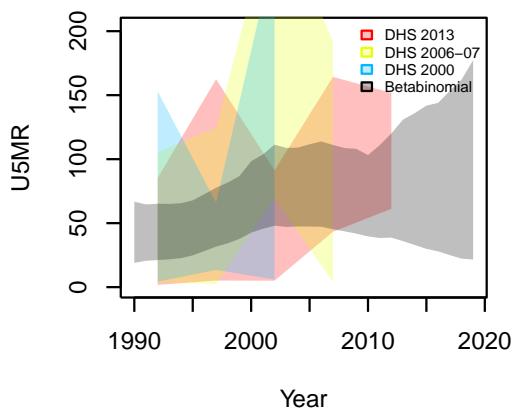
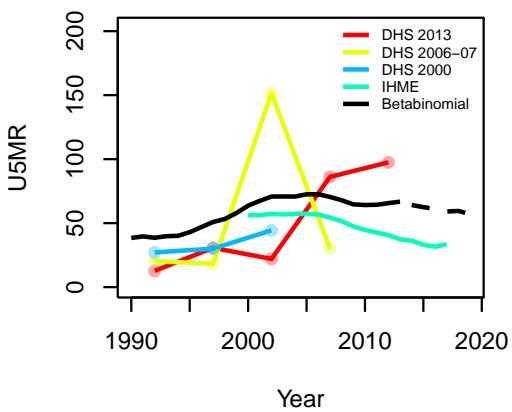
Swakopmund, Erongo



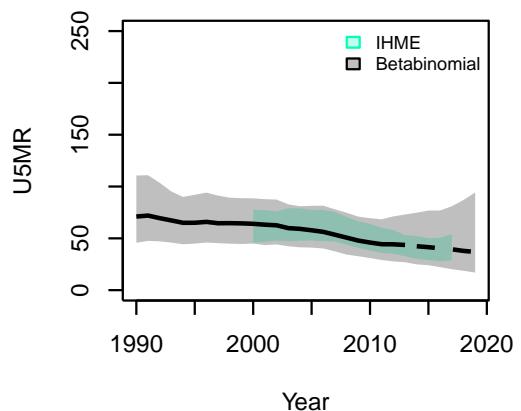
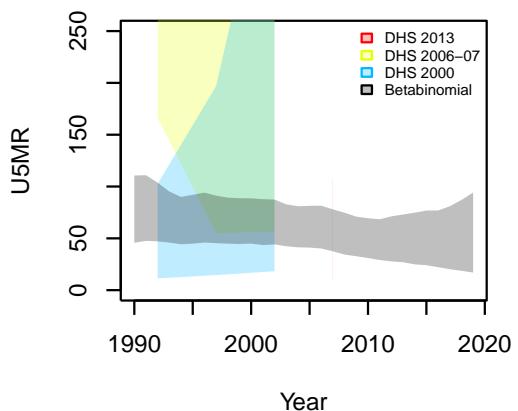
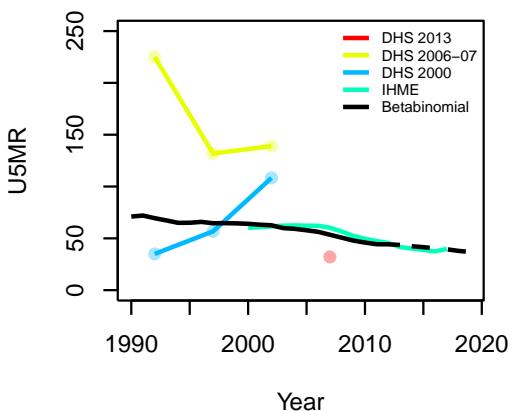
Walvisbay Rural, Erongo



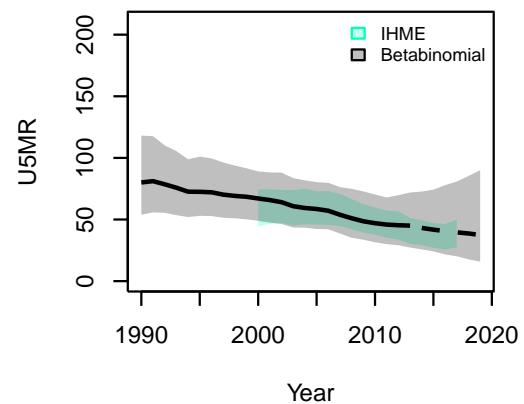
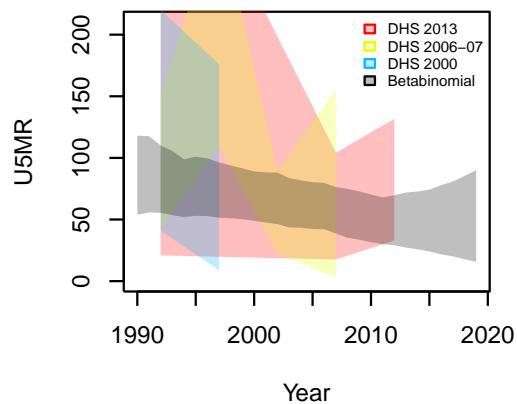
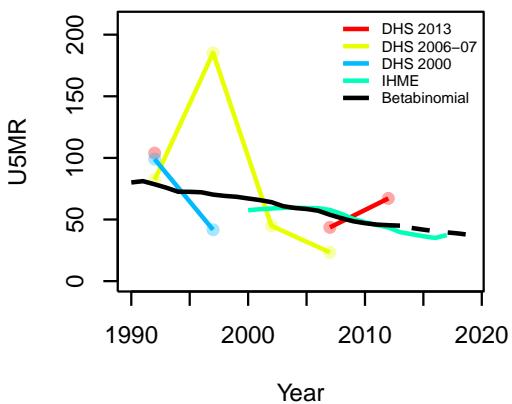
Walvisbay Urban, Erongo



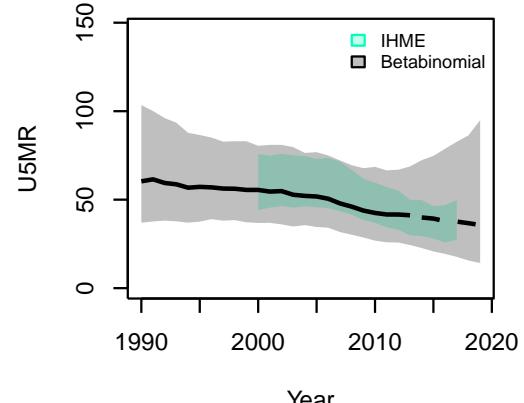
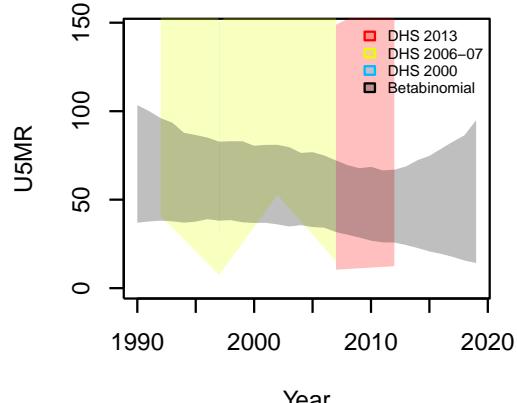
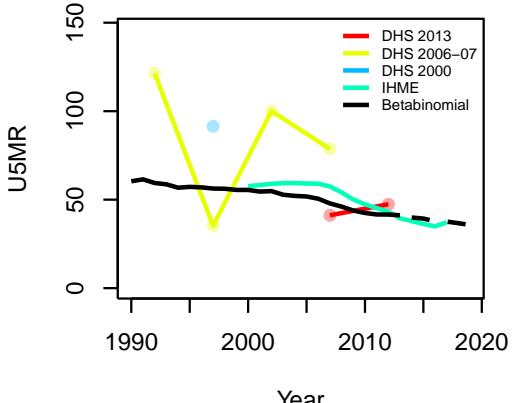
Gibeon, Hardap



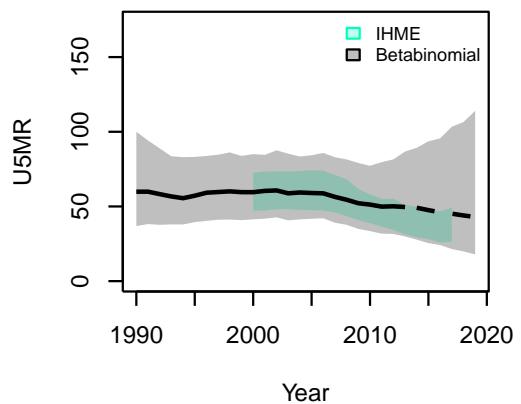
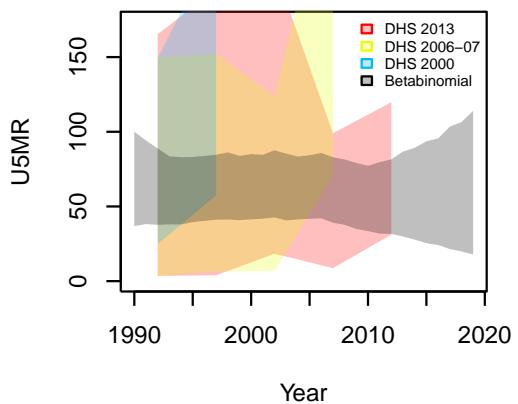
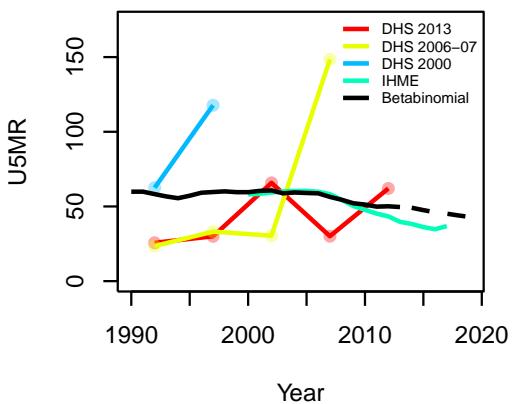
Marialtal Rural, Hardap



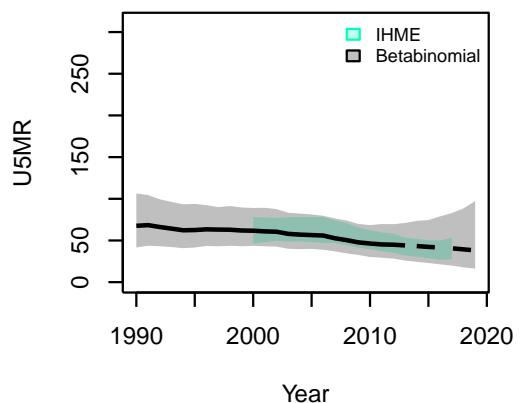
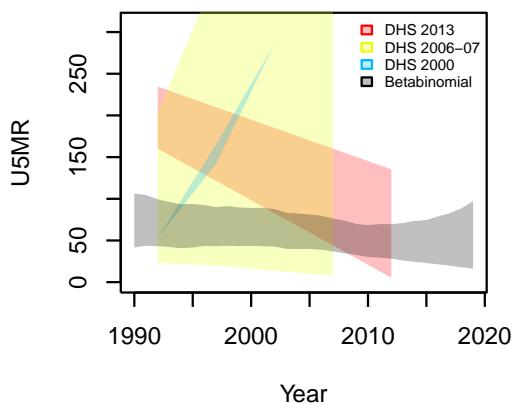
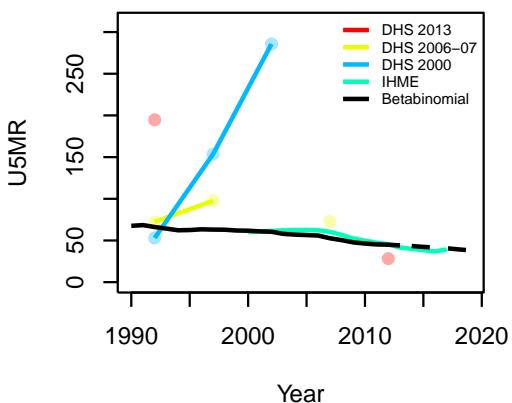
Marialtal Urban, Hardap



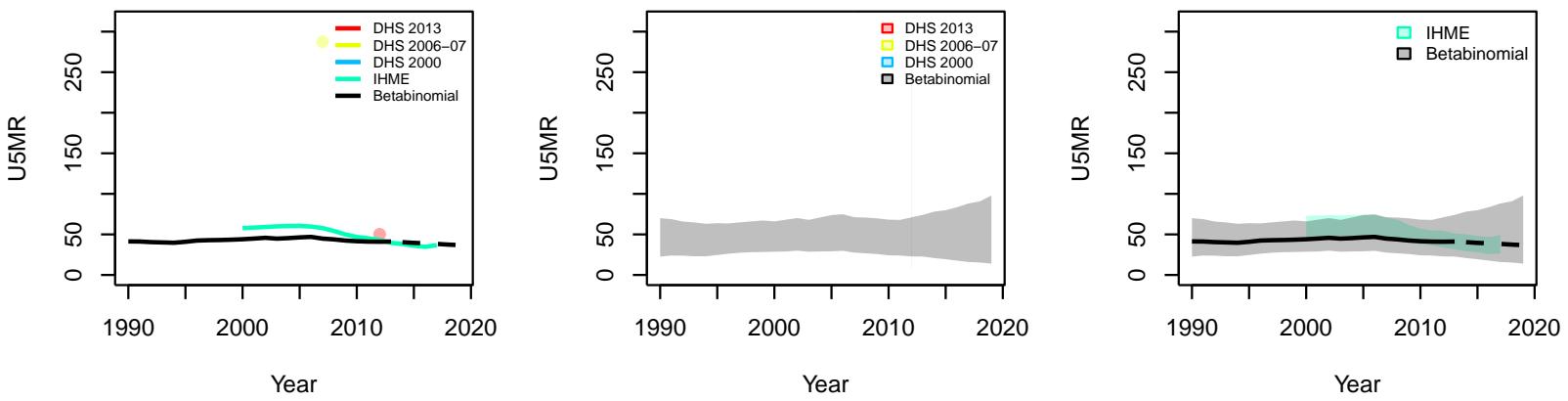
Rehoboth East, Hardap



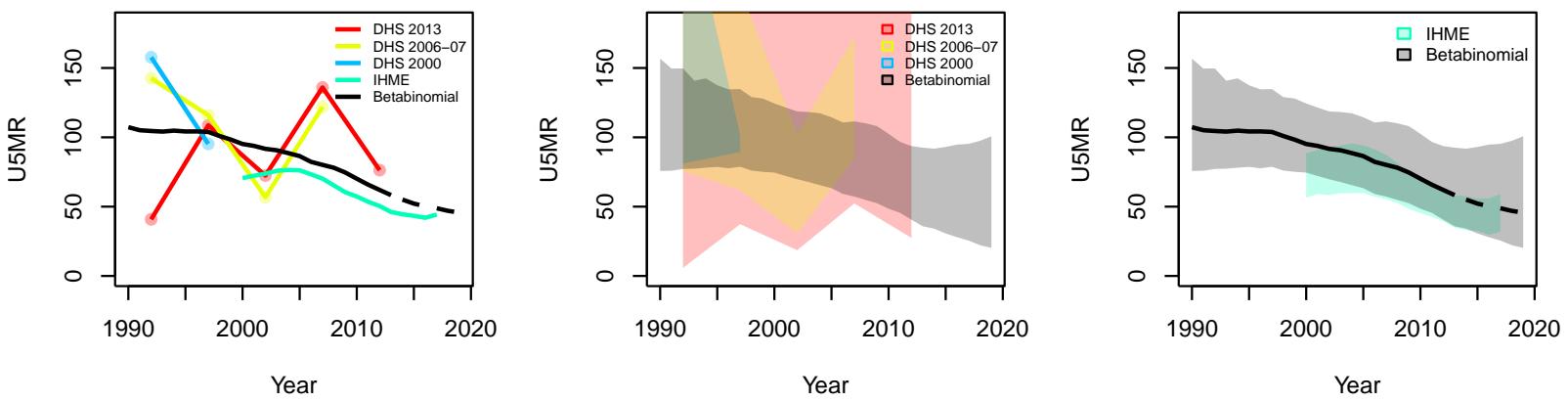
Rehoboth Rural, Hardap



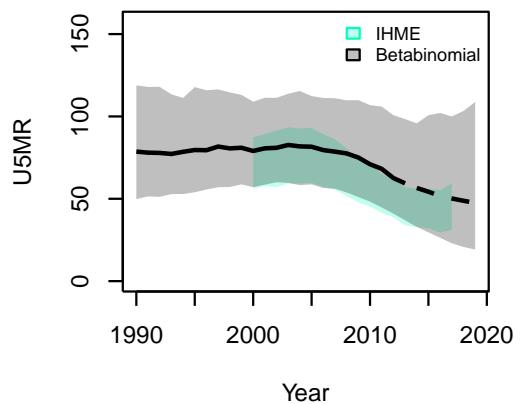
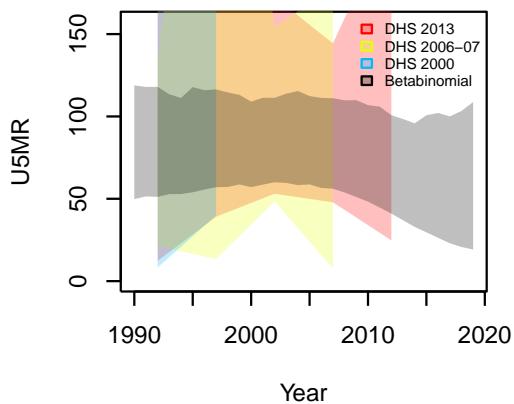
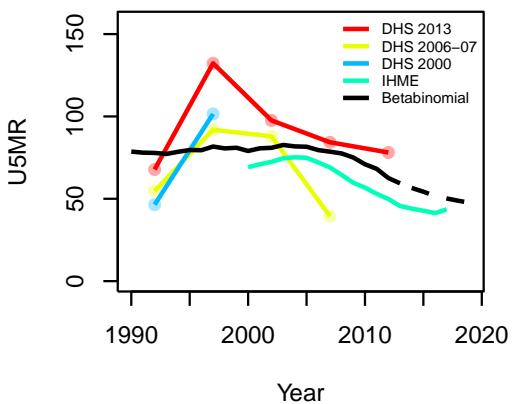
Rehoboth West, Hardap



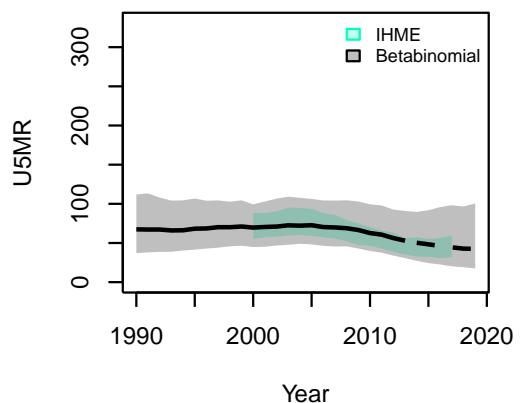
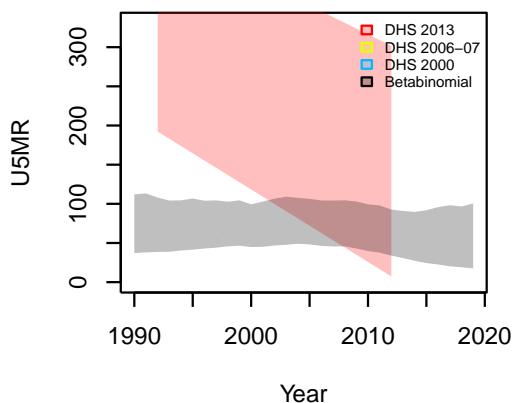
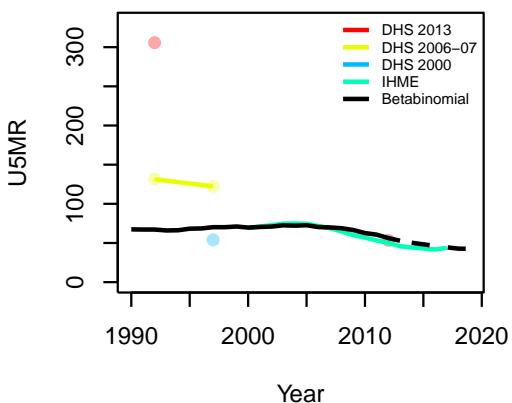
Kahenge, Kavango



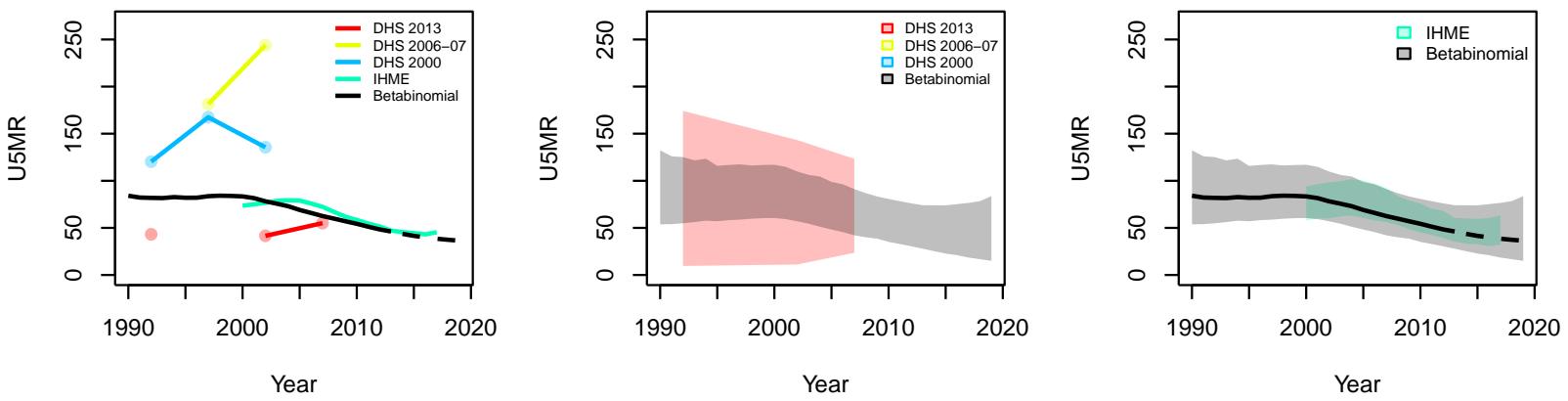
Kapako, Kavango



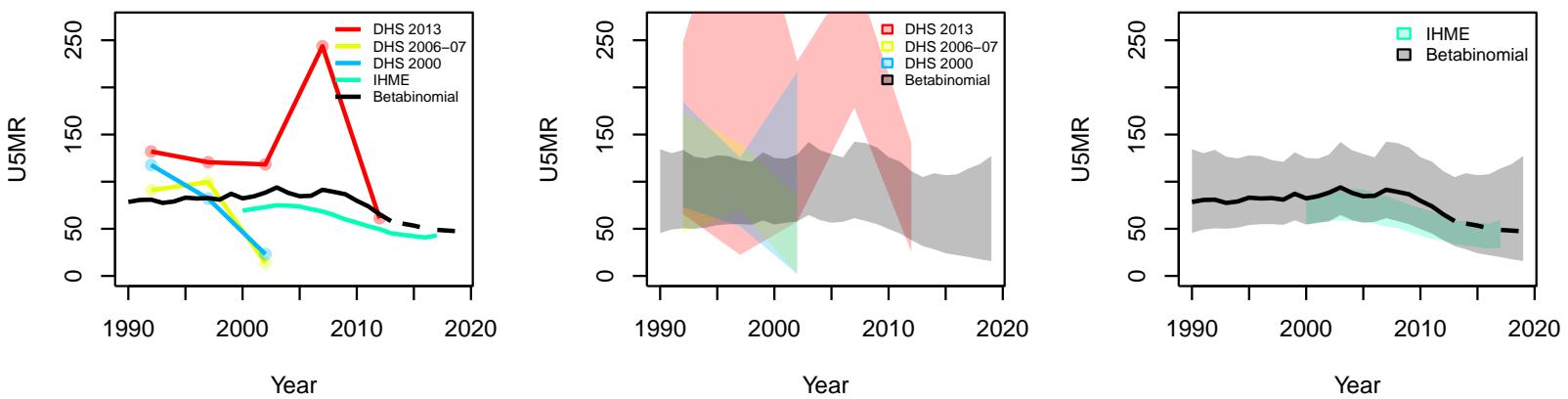
Mashare, Kavango



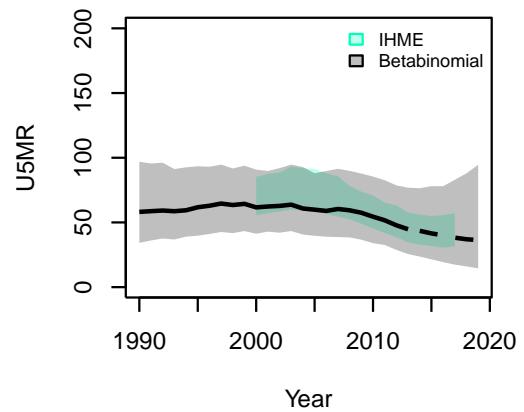
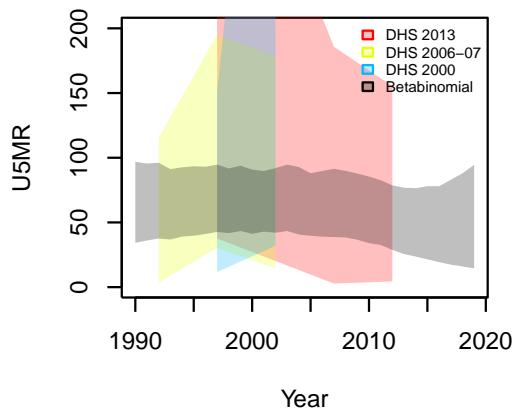
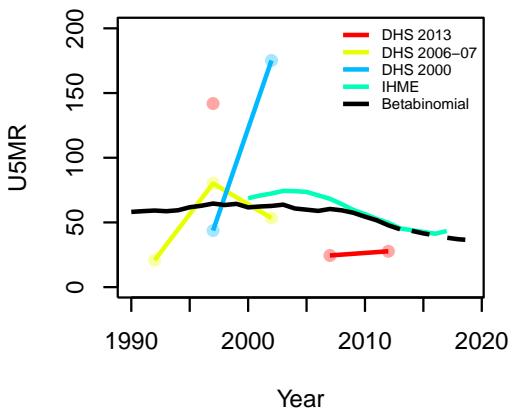
Mpungu, Kavango



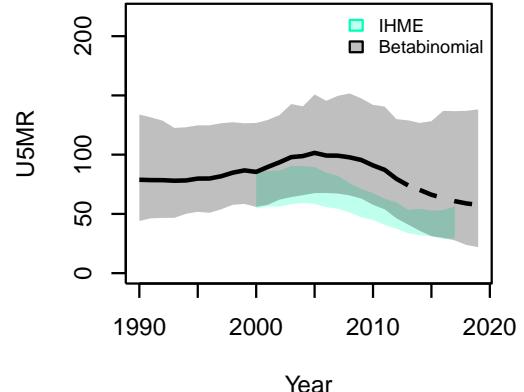
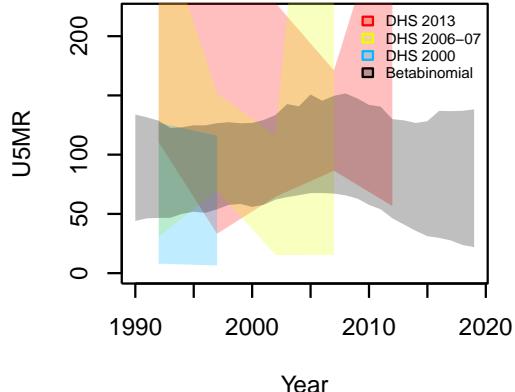
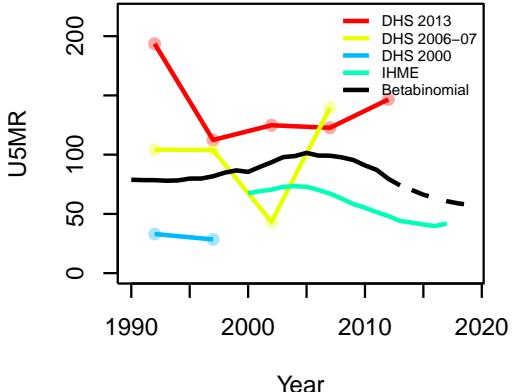
Mukwe, Kavango



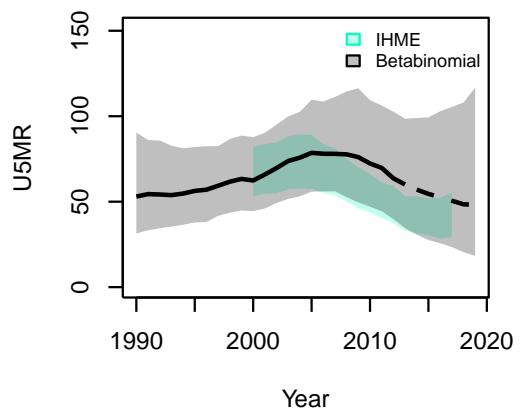
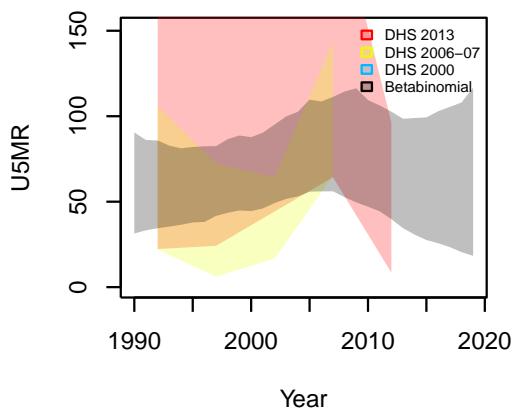
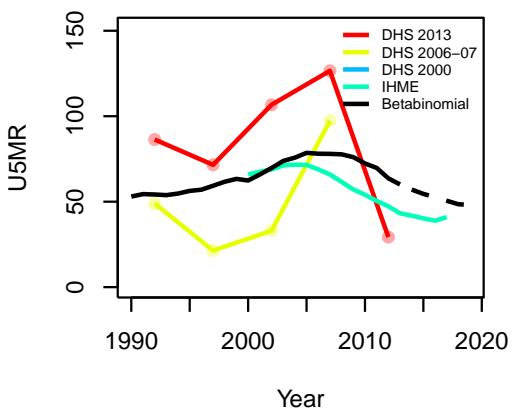
Ndiyona, Kavango



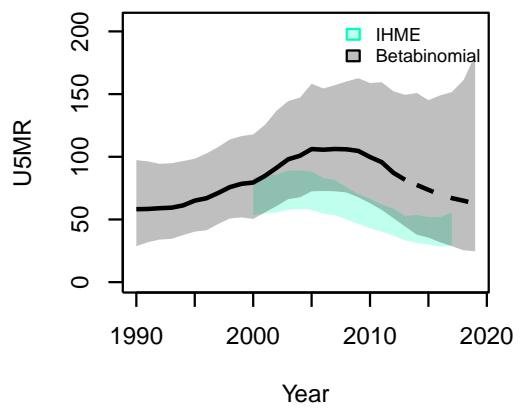
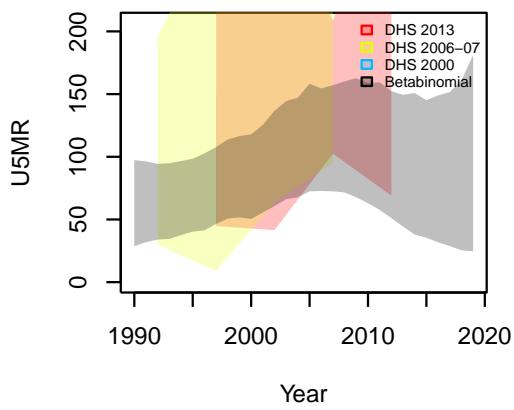
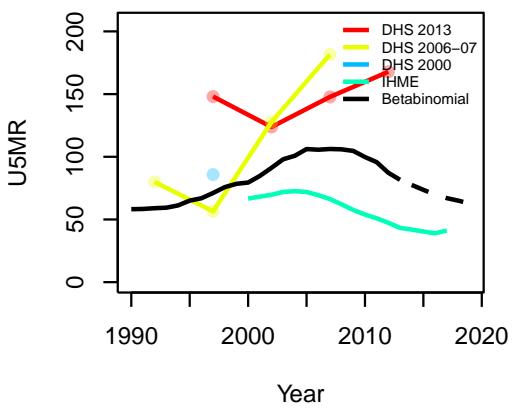
Rundu Rural East, Kavango



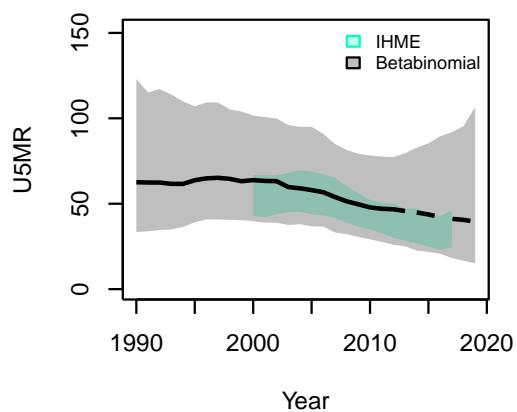
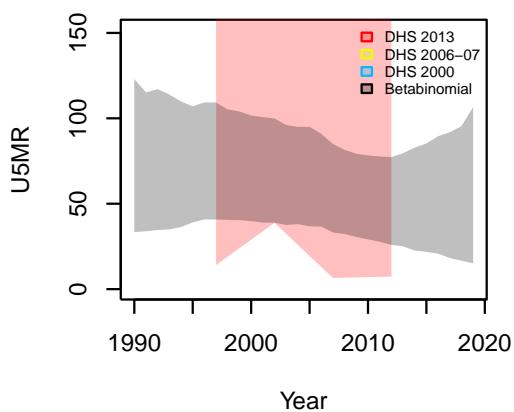
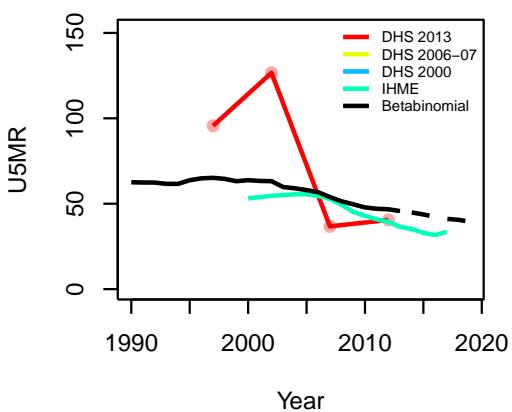
Rundu Rural West, Kavango



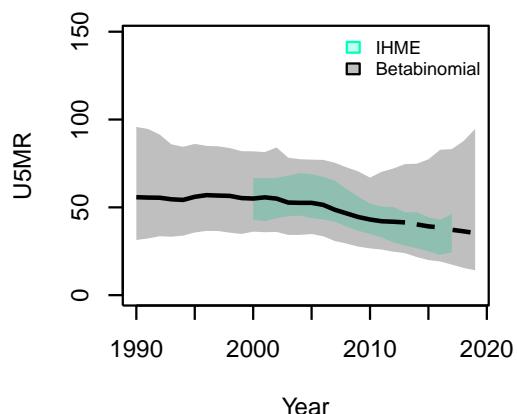
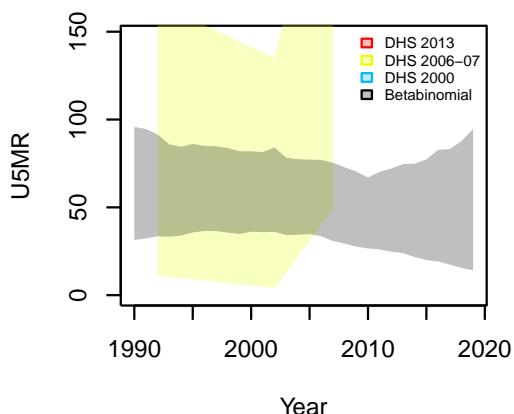
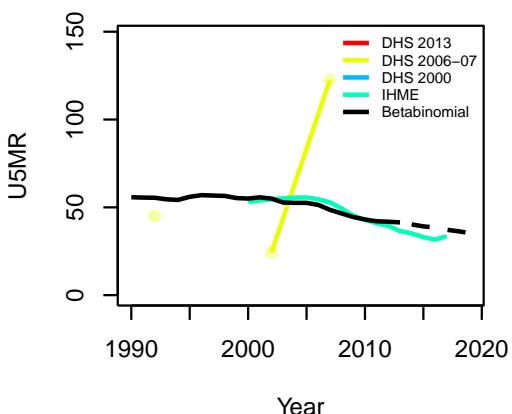
Rundu Urban, Kavango



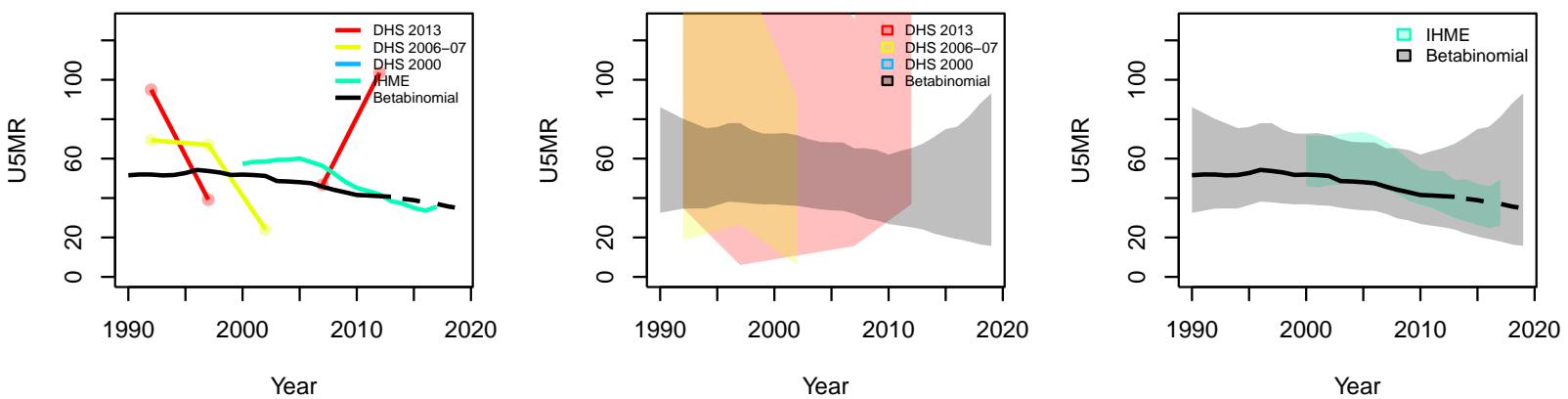
Katutura Central, Khomas



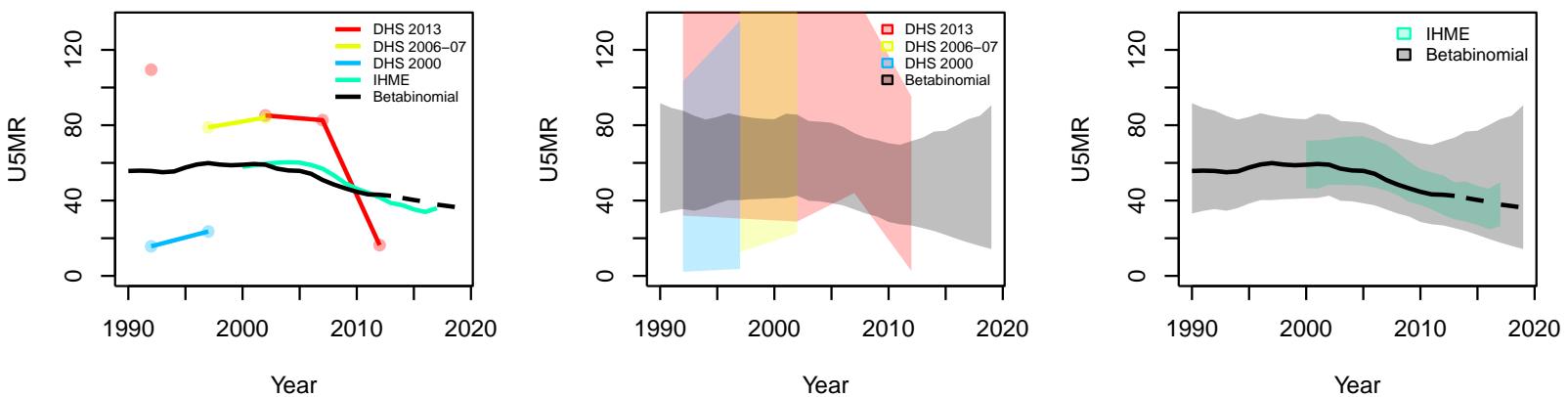
Katutura East, Khomas



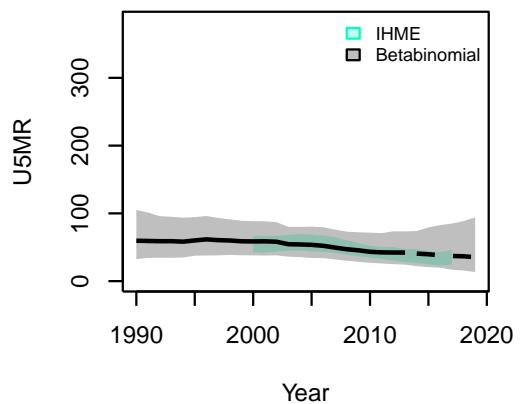
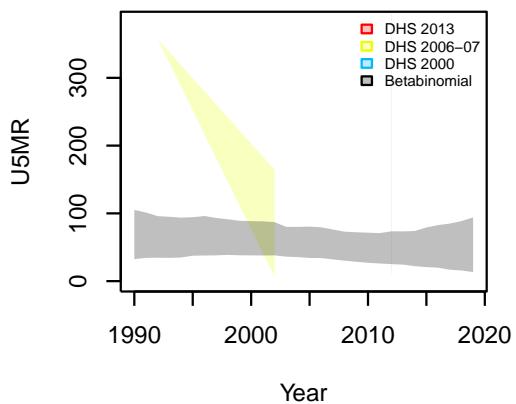
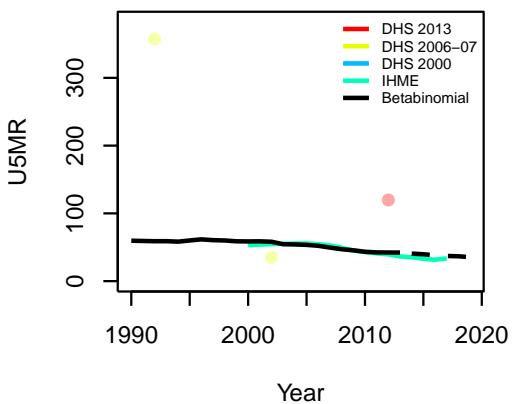
Khomasdal North, Khomas



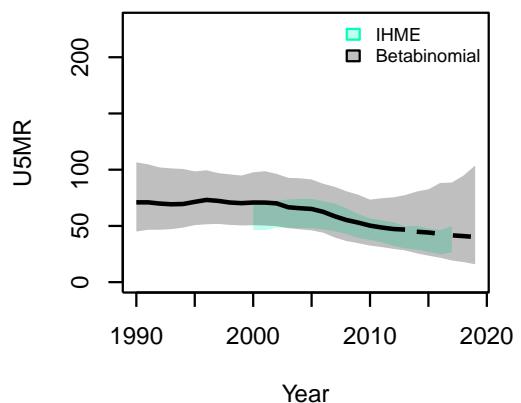
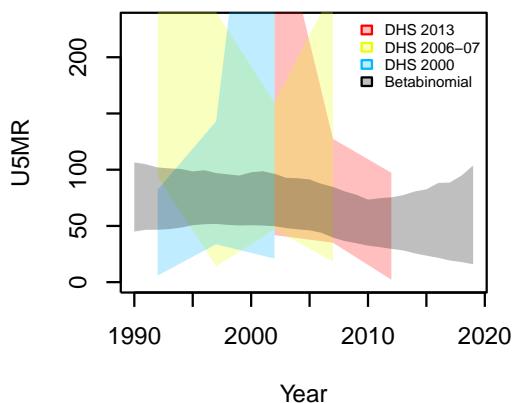
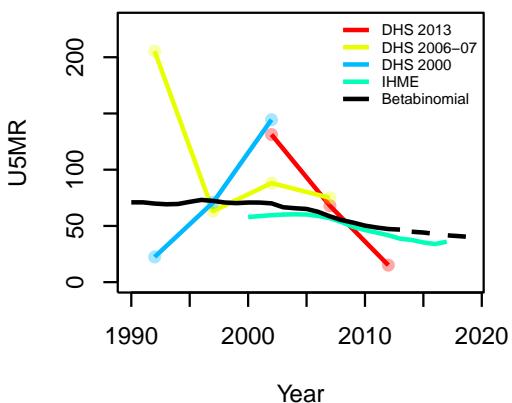
Moses Garoeb, Khomas



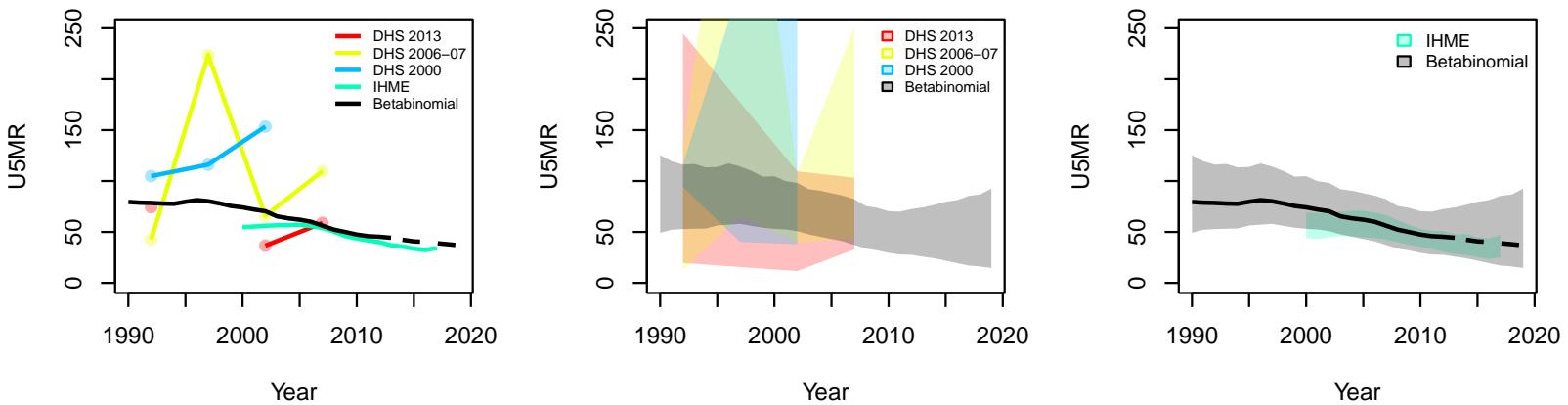
Soweto, Khomas



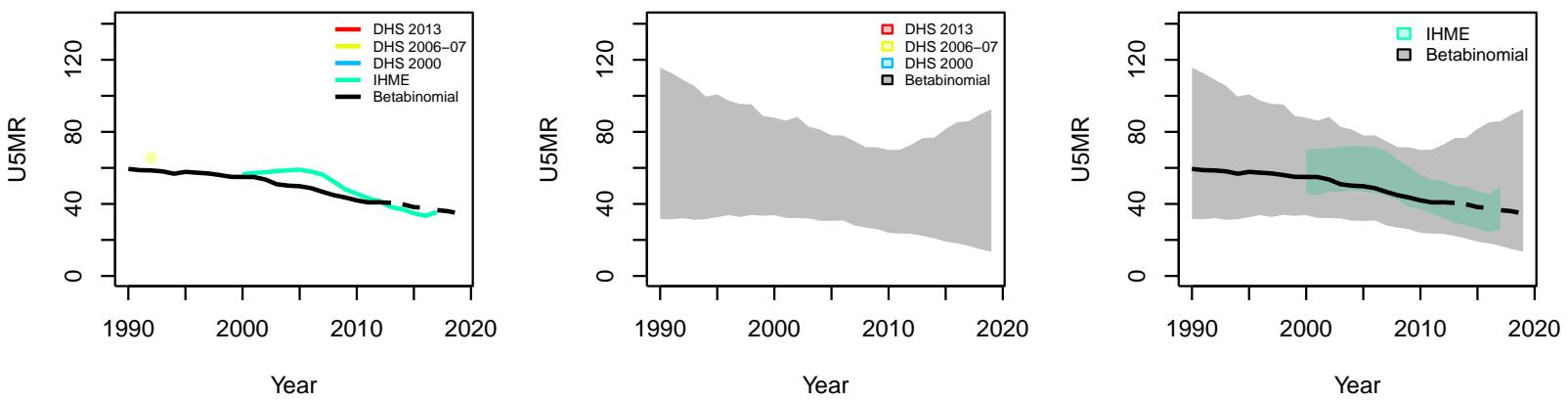
Tobias Hainyeko, Khomas



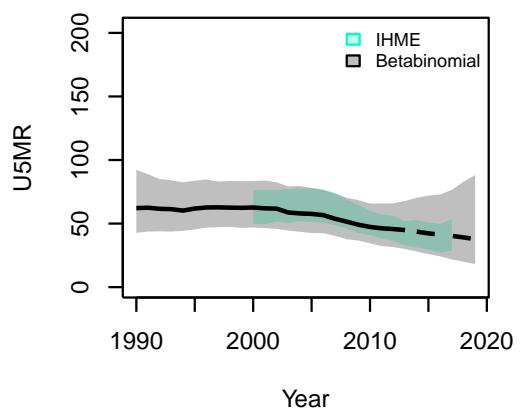
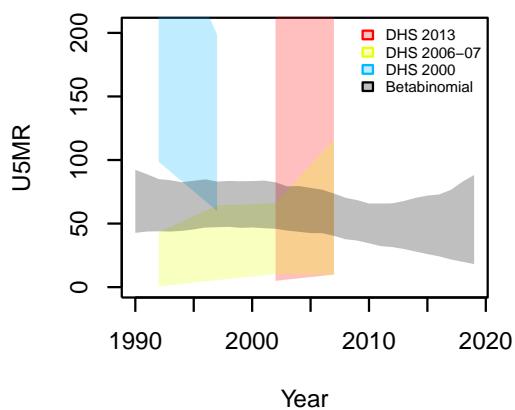
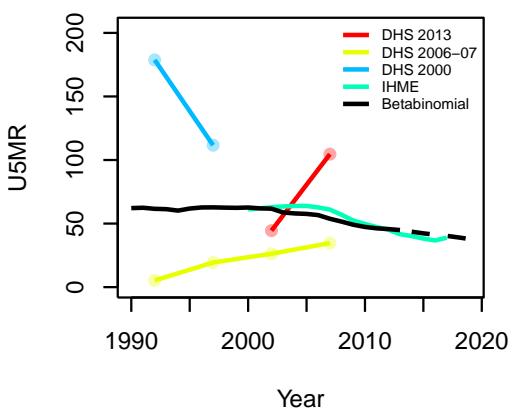
Wanaheda, Khomas



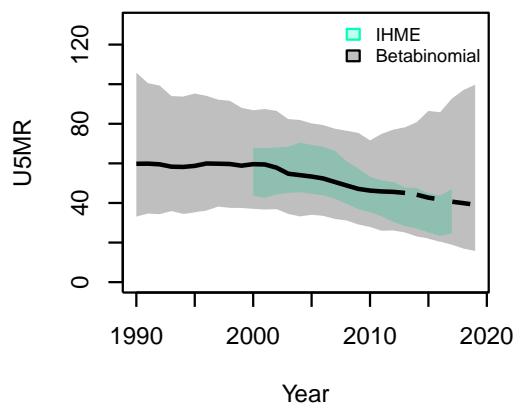
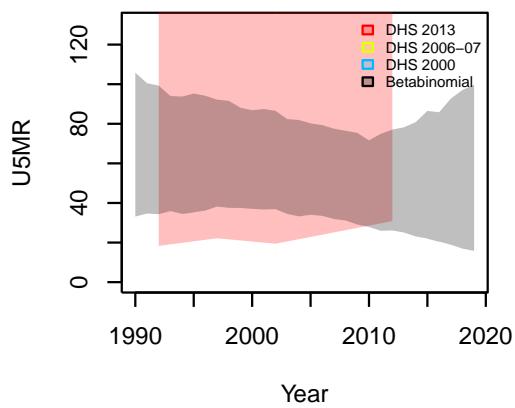
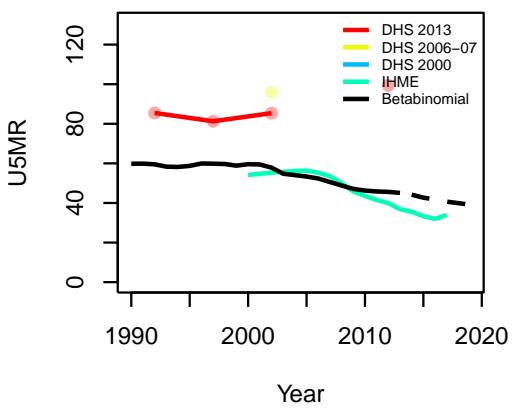
Windhoek East, Khomas



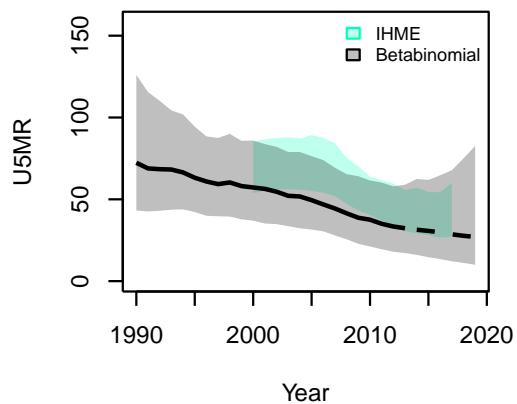
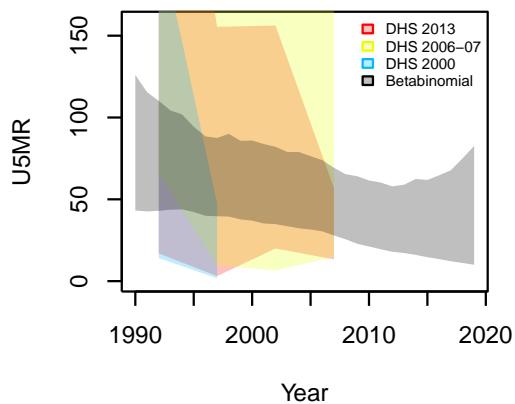
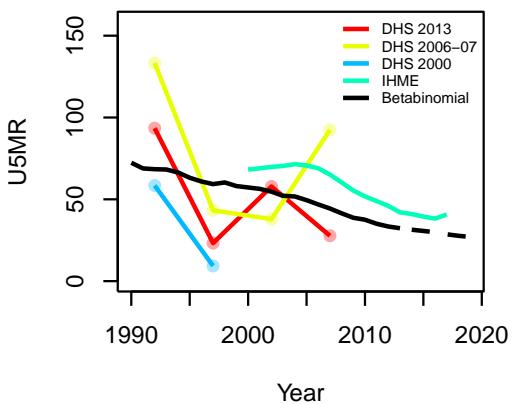
Windhoek Rural, Khomas



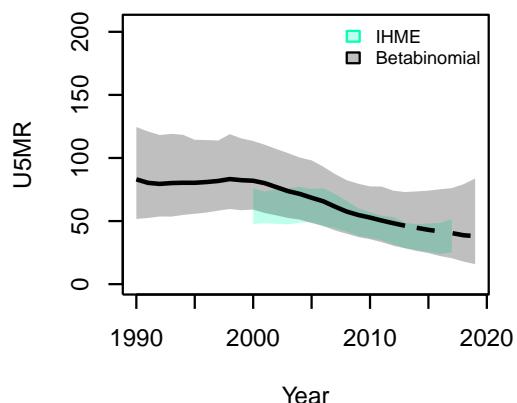
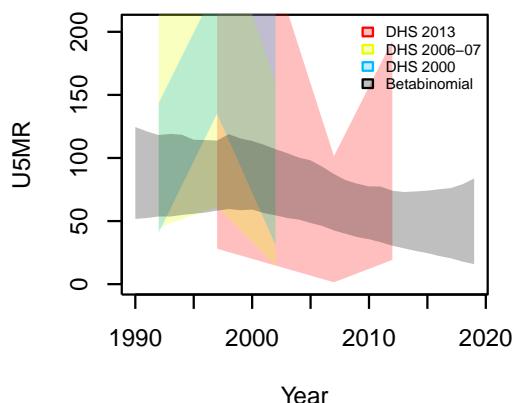
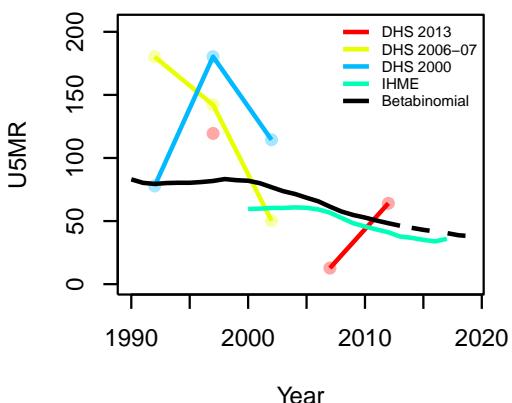
Windhoek West, Khomas



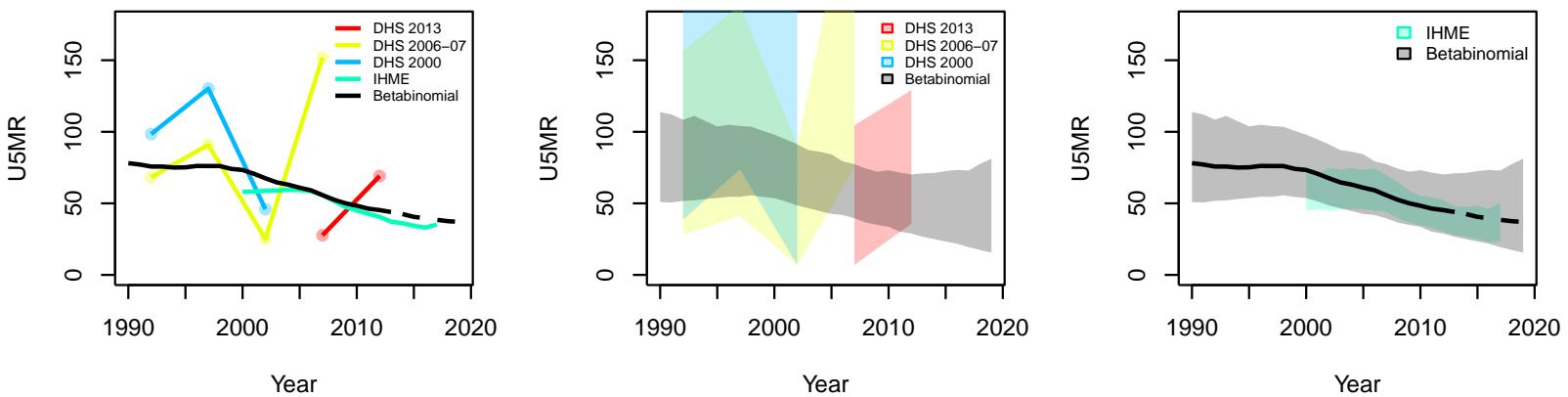
Epupa, Kunene



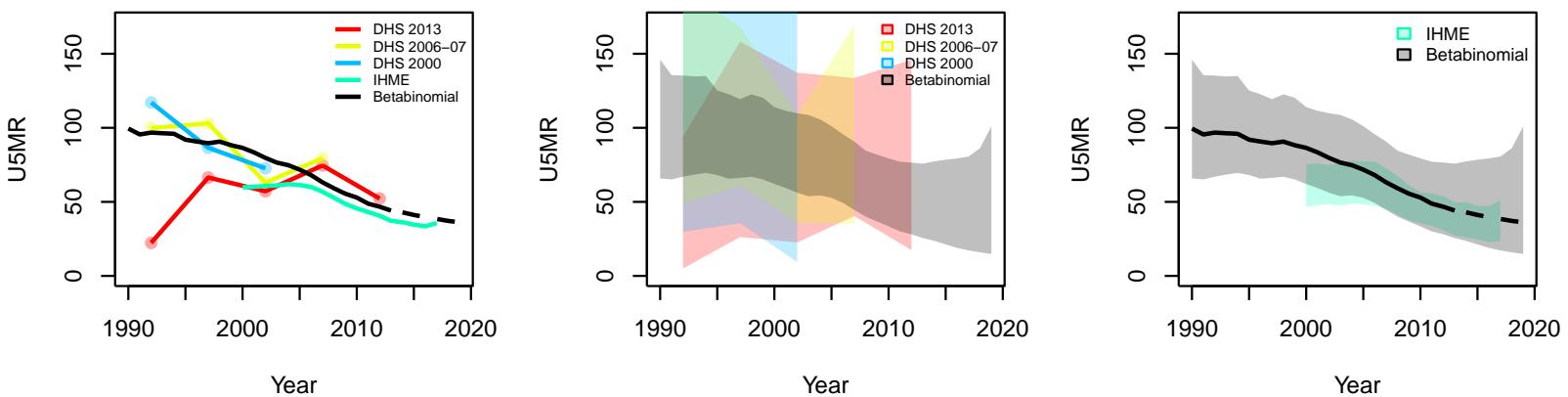
Kamanjab, Kunene



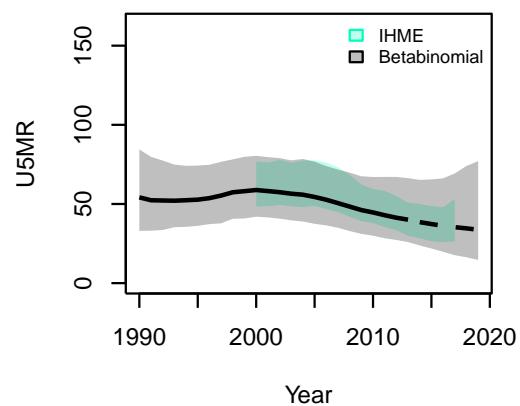
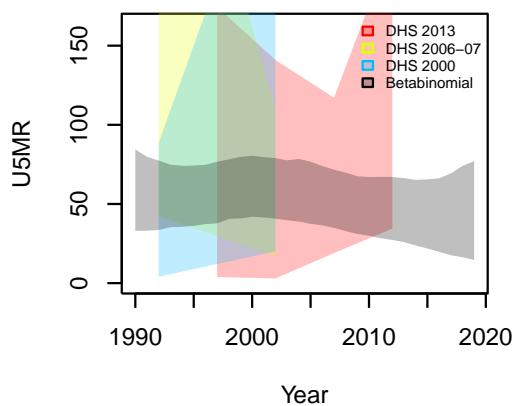
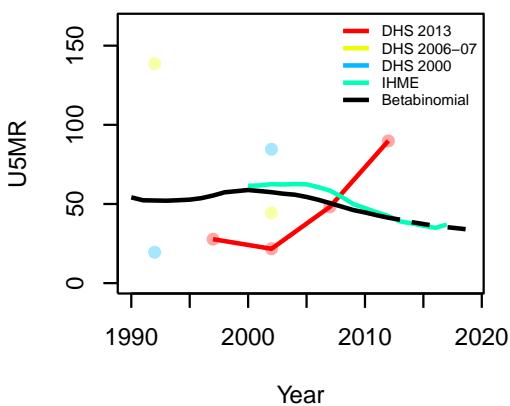
Khorixas, Kunene



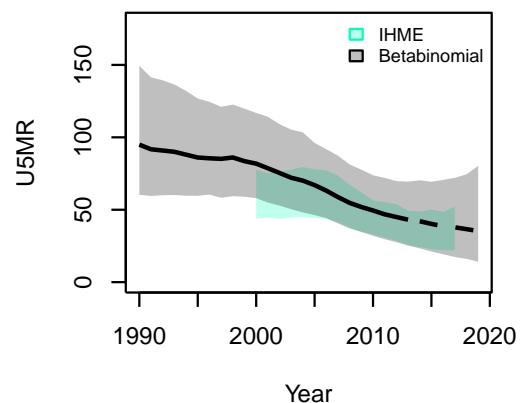
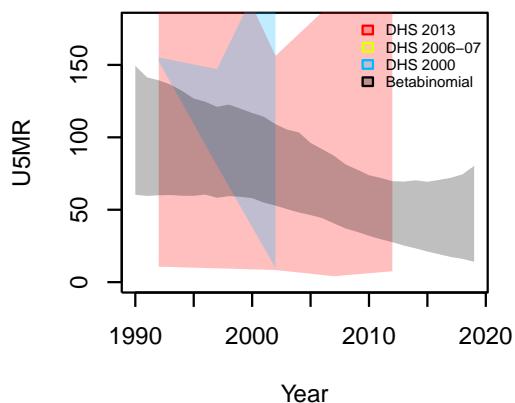
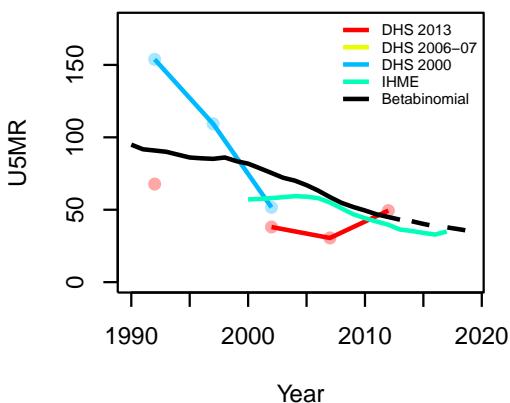
Opuwo, Kunene



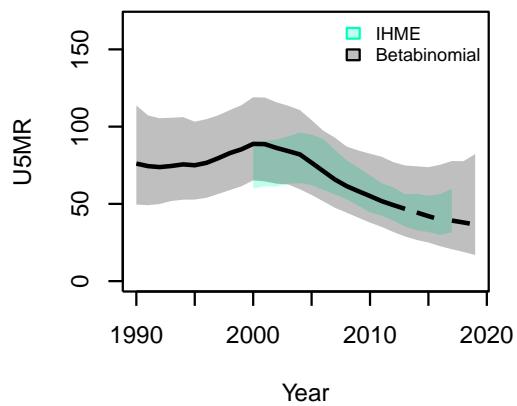
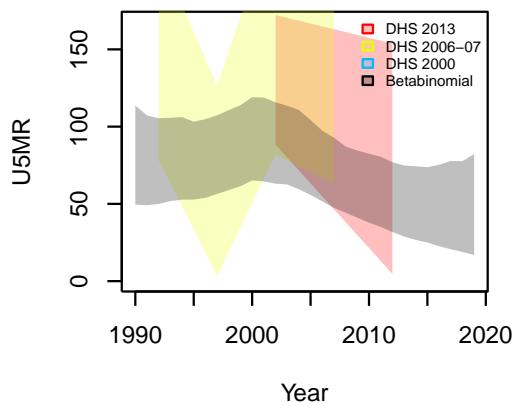
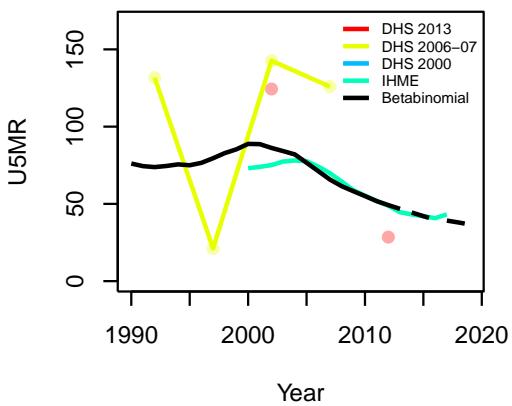
Outjo, Kunene



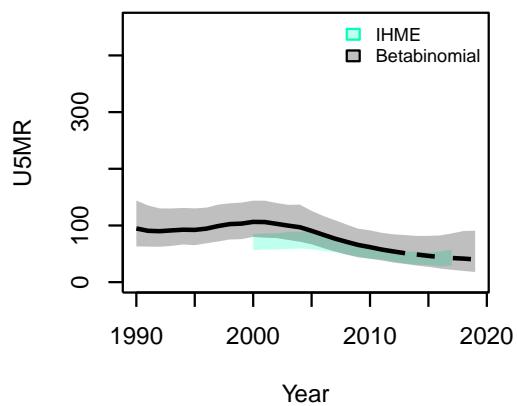
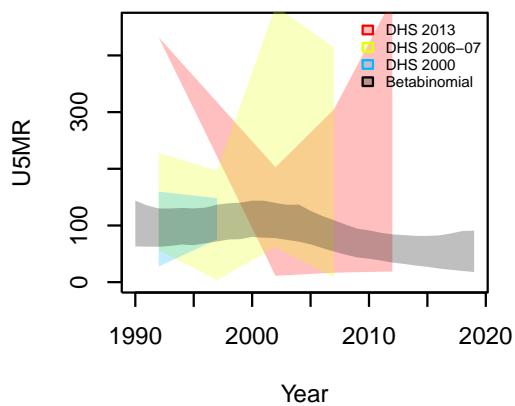
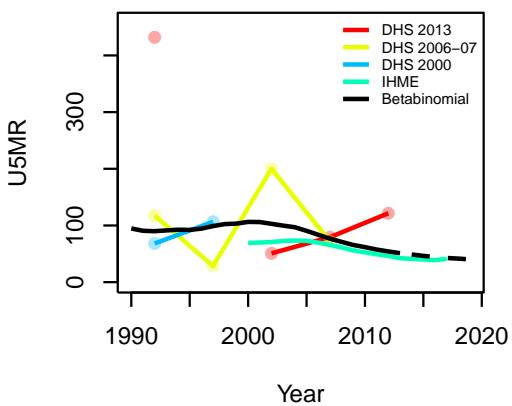
Sesfontein, Kunene



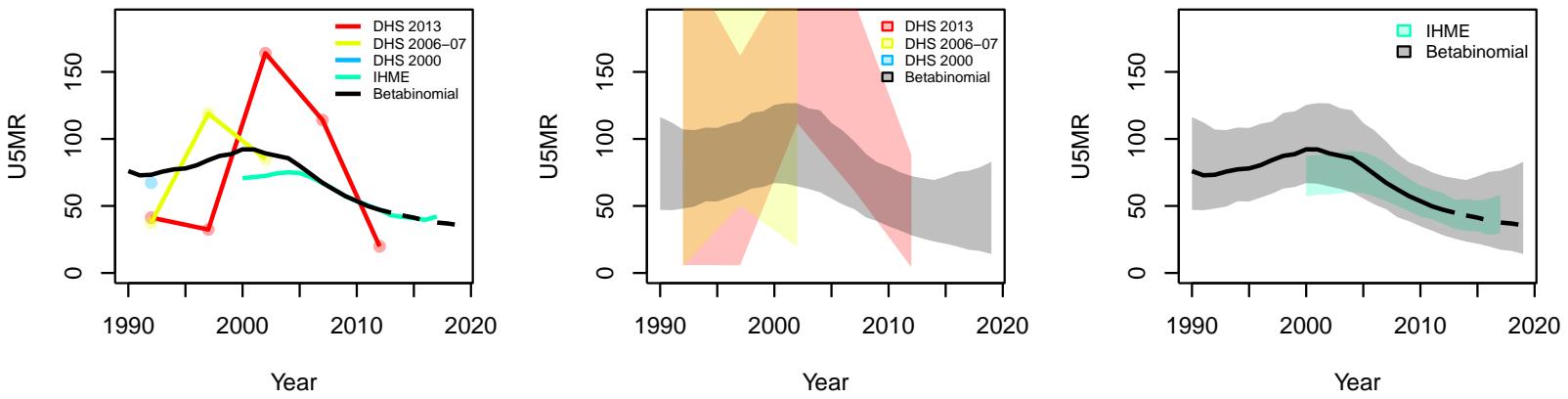
Enhana, Ohangwena



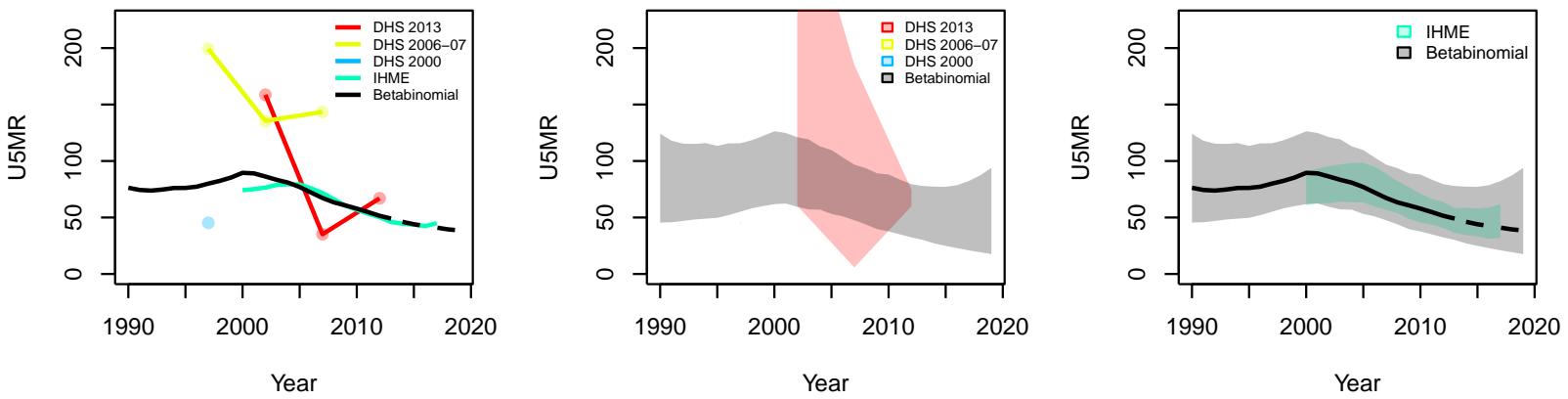
Endola, Ohangwena



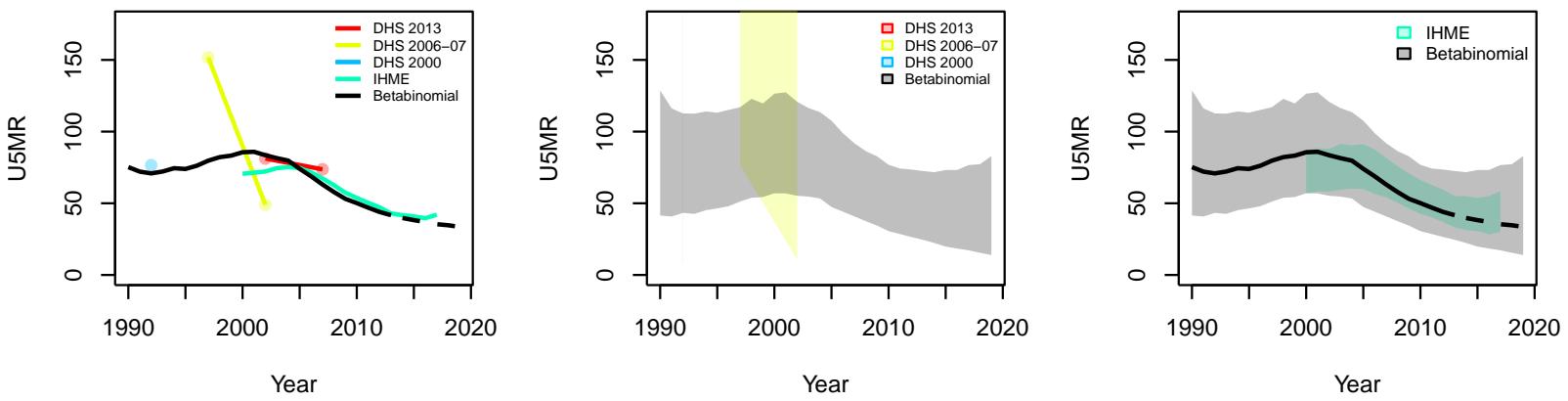
Engela, Ohangwena



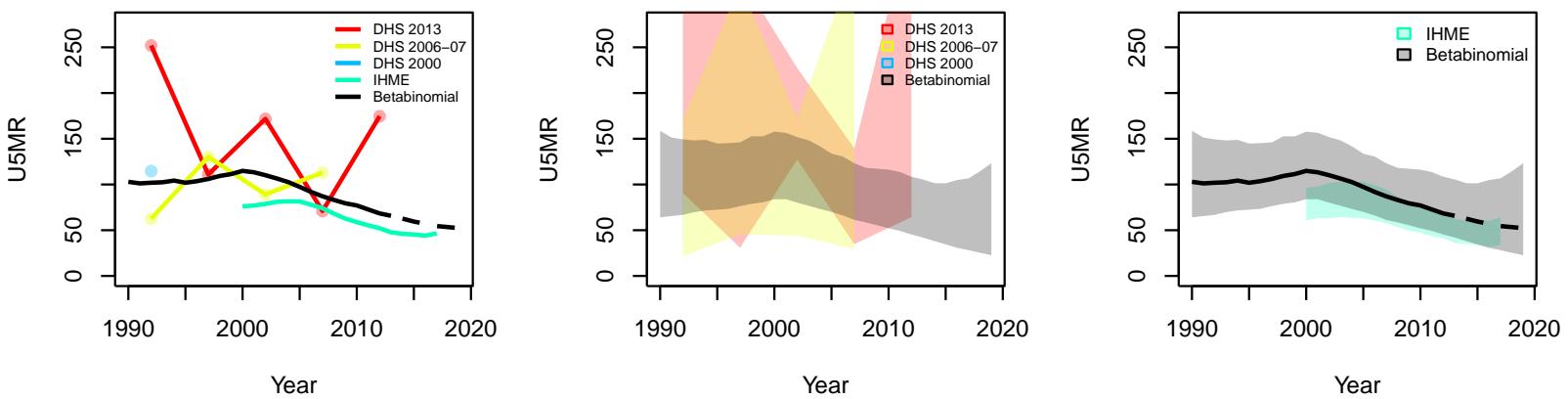
Ephembe, Ohangwena



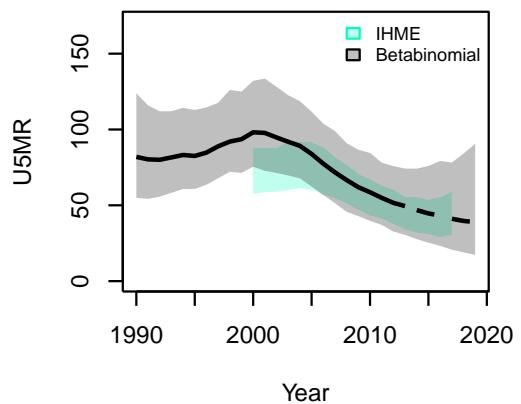
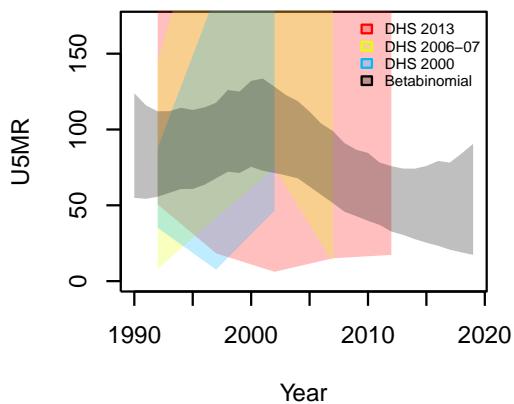
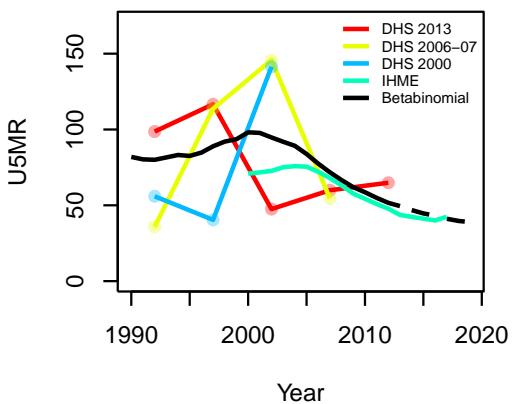
Ohangwena, Ohangwena



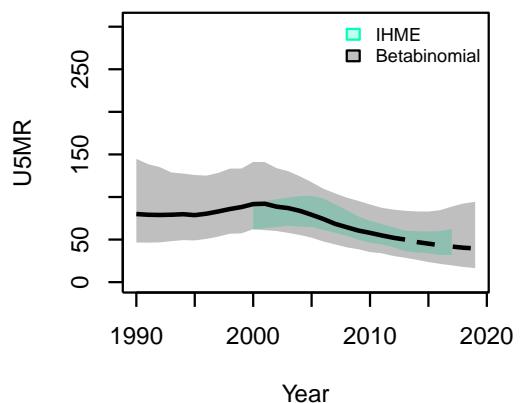
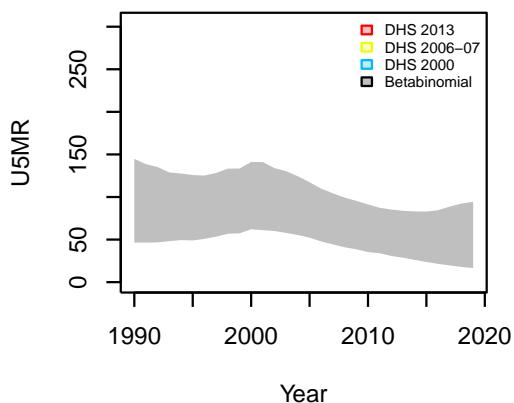
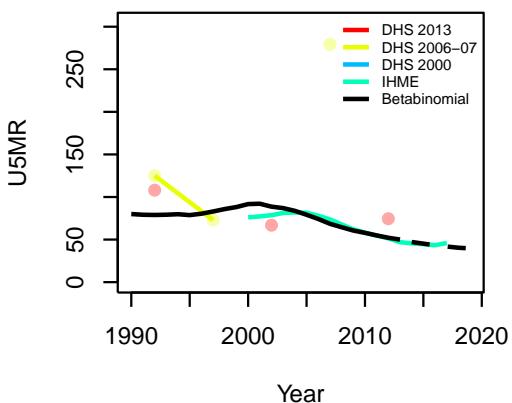
Okongo, Ohangwena



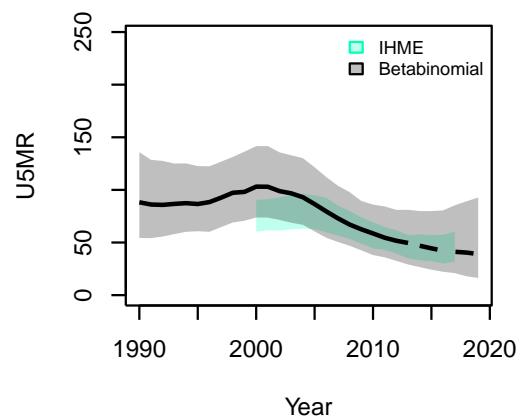
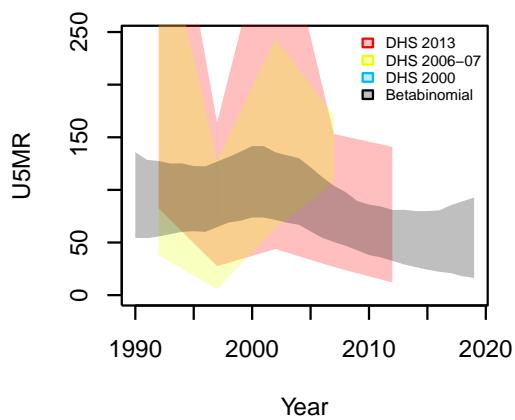
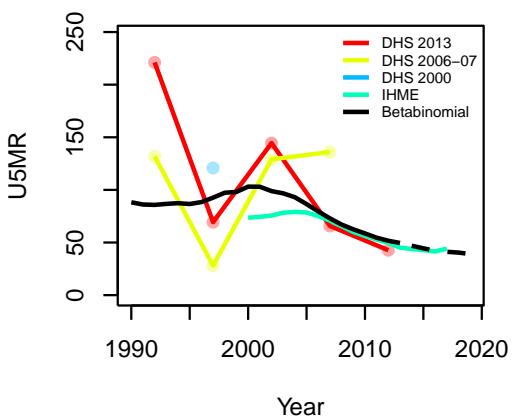
Omulonga, Changwena



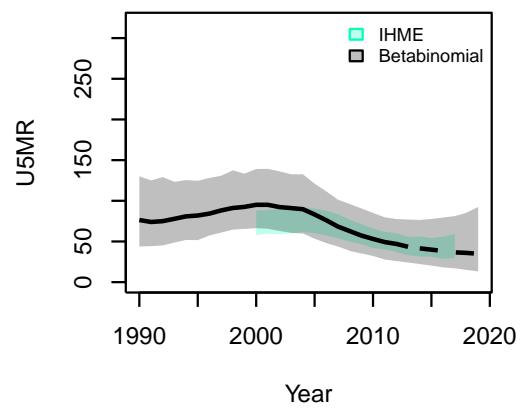
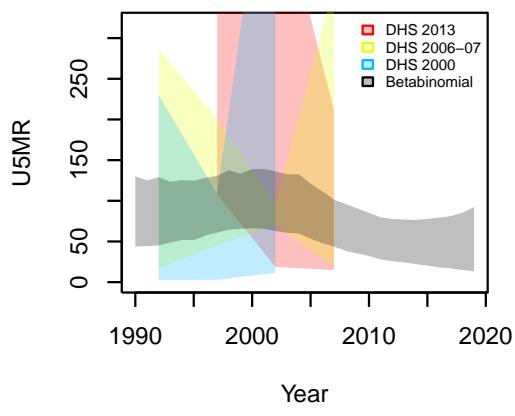
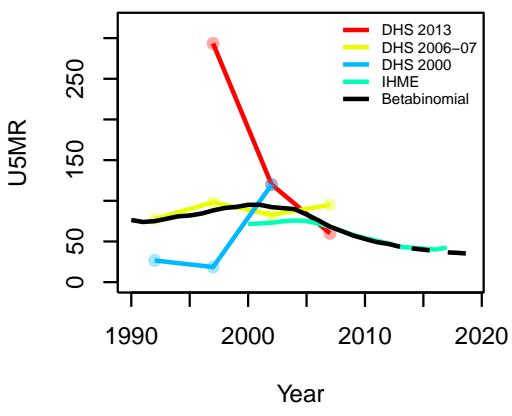
Omundauingilo, Ohangwena



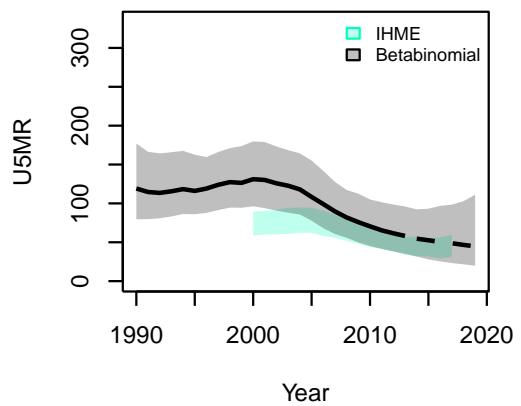
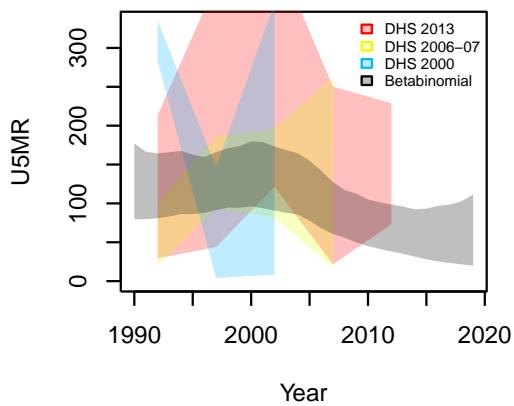
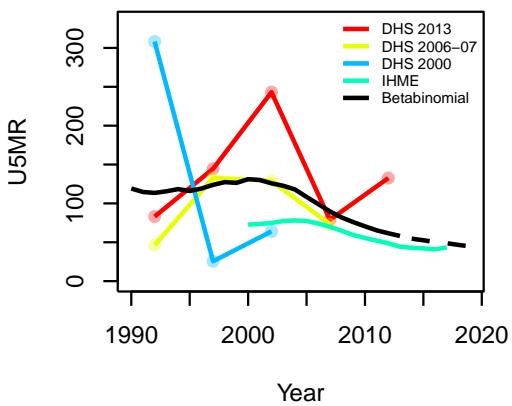
Ondobe, Ohangwena



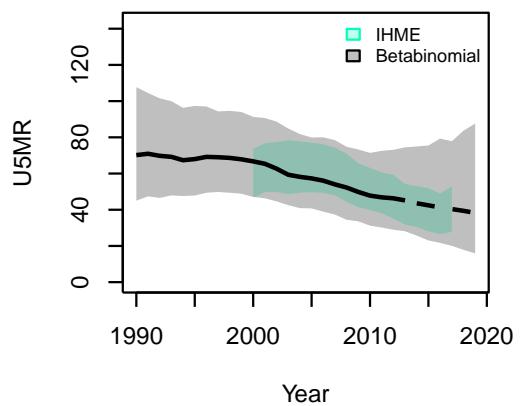
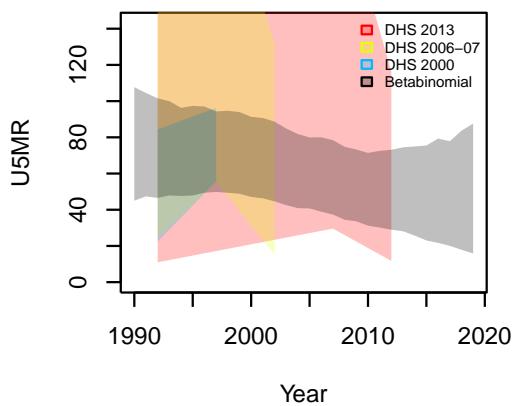
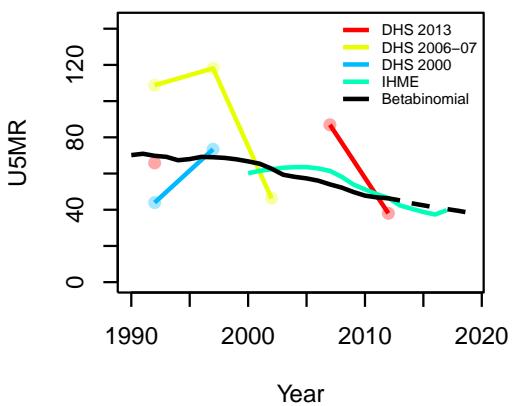
Ongenga, Ohangwena



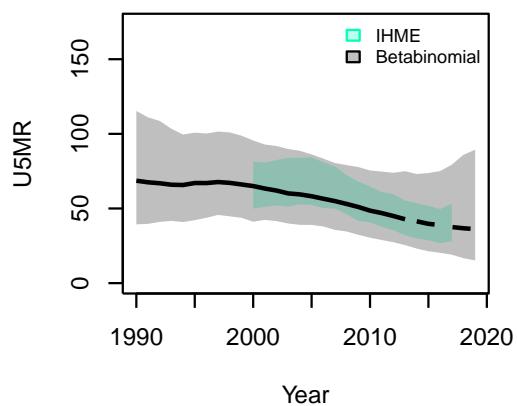
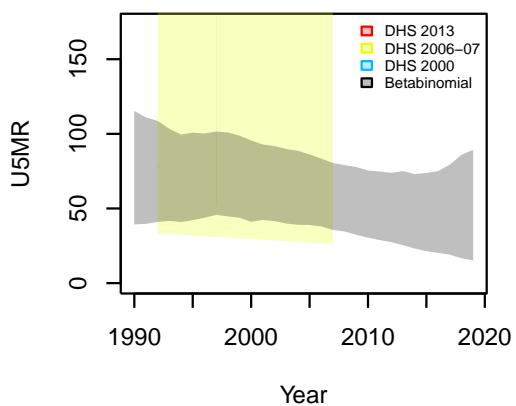
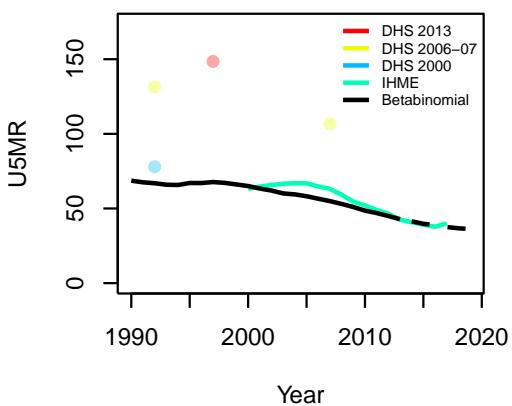
Oshikango, Omaheke



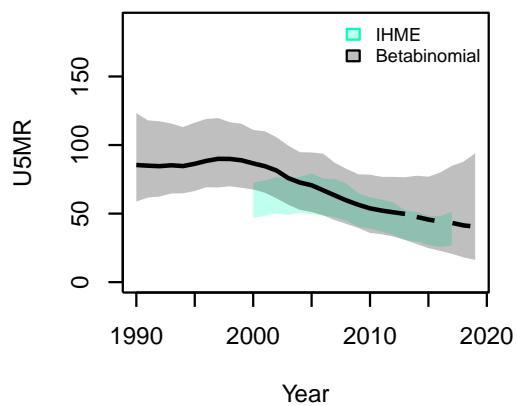
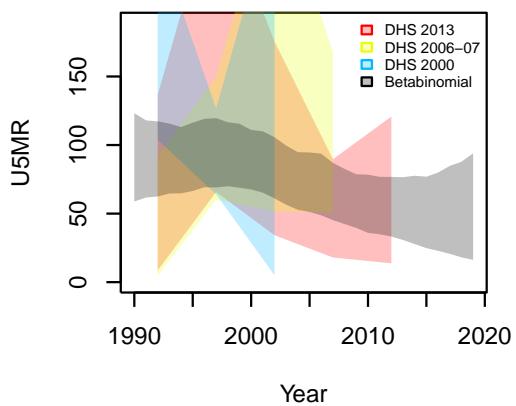
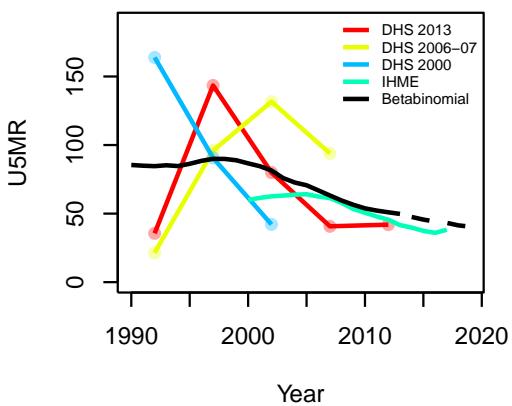
Aminius, Omaheke



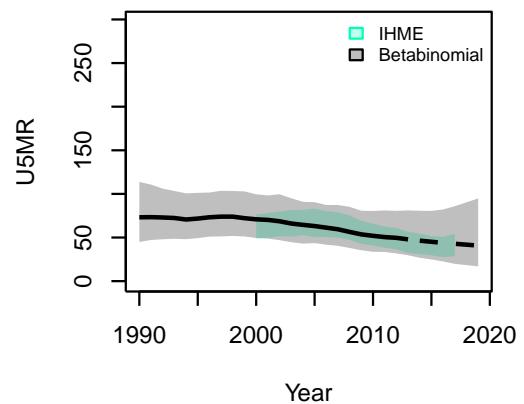
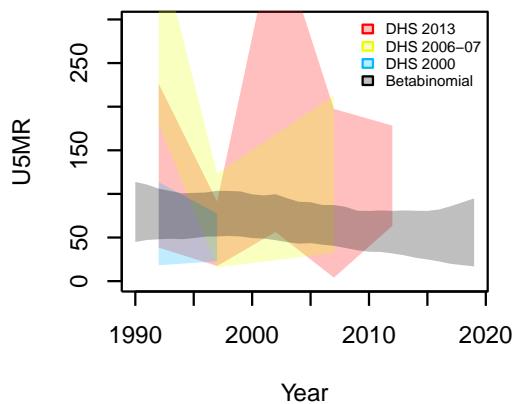
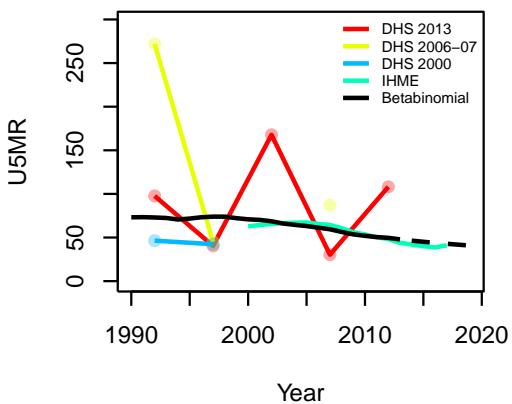
Epukiro, Omaheke



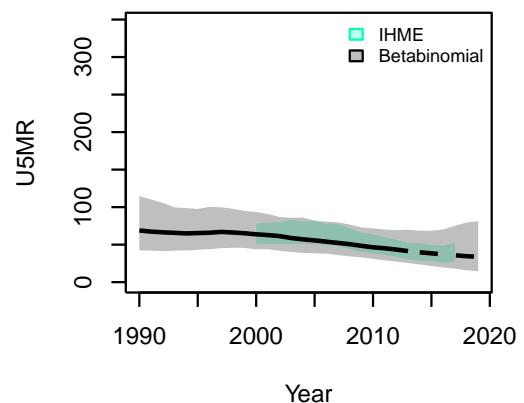
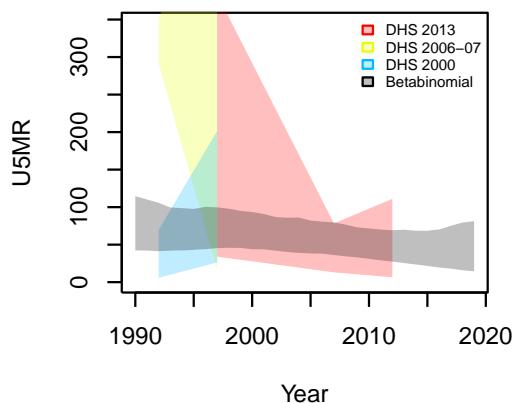
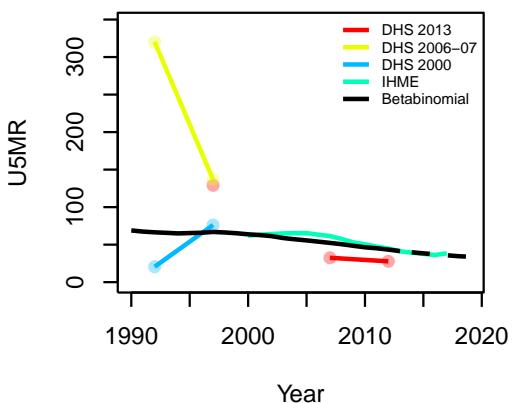
Gobabis, Omaheke



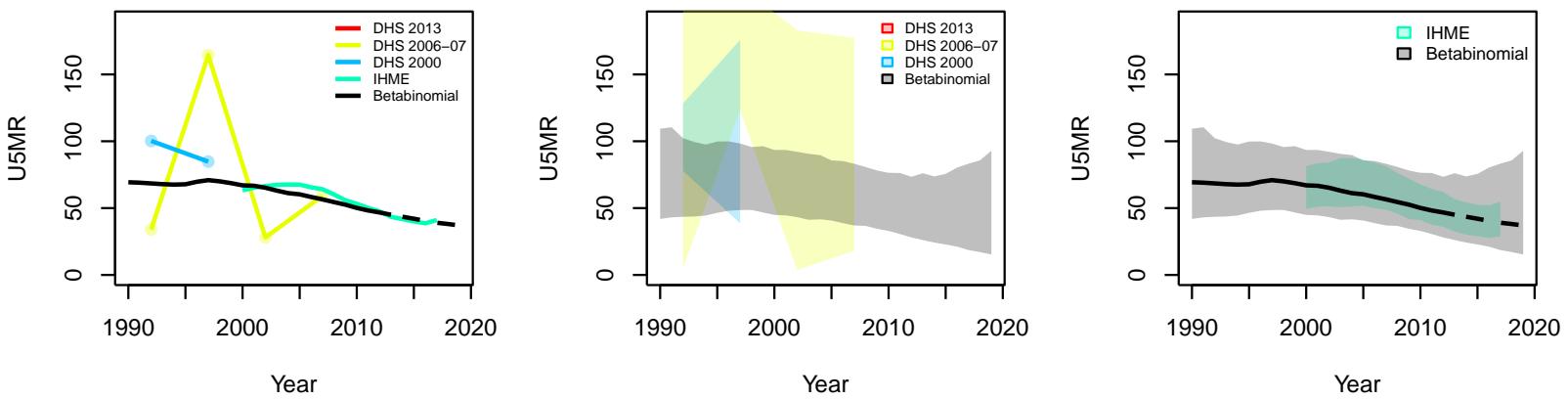
Kalahari, Omaheke



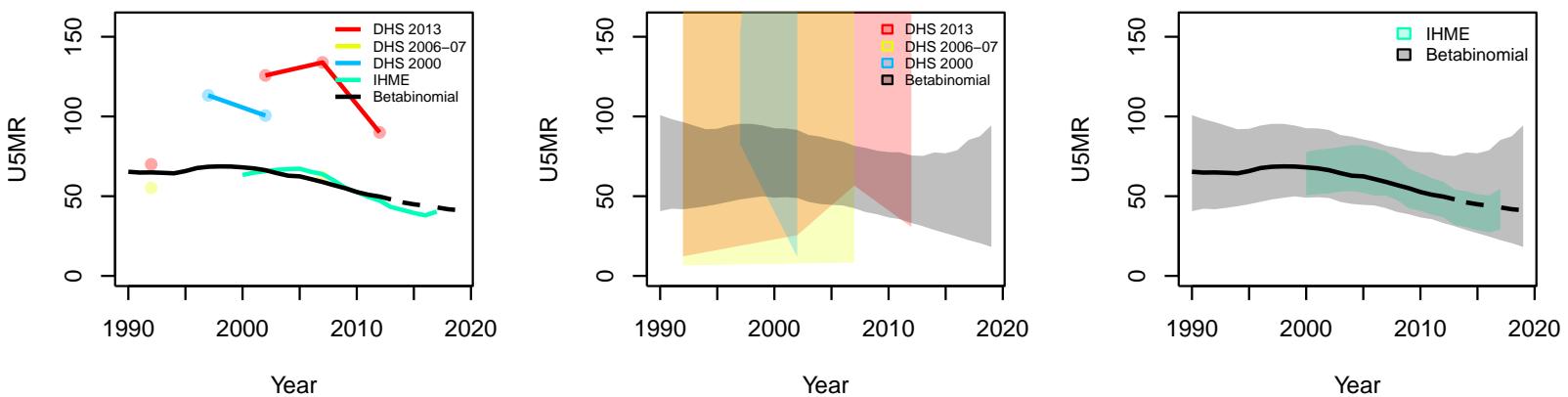
Otjinene, Omaheke



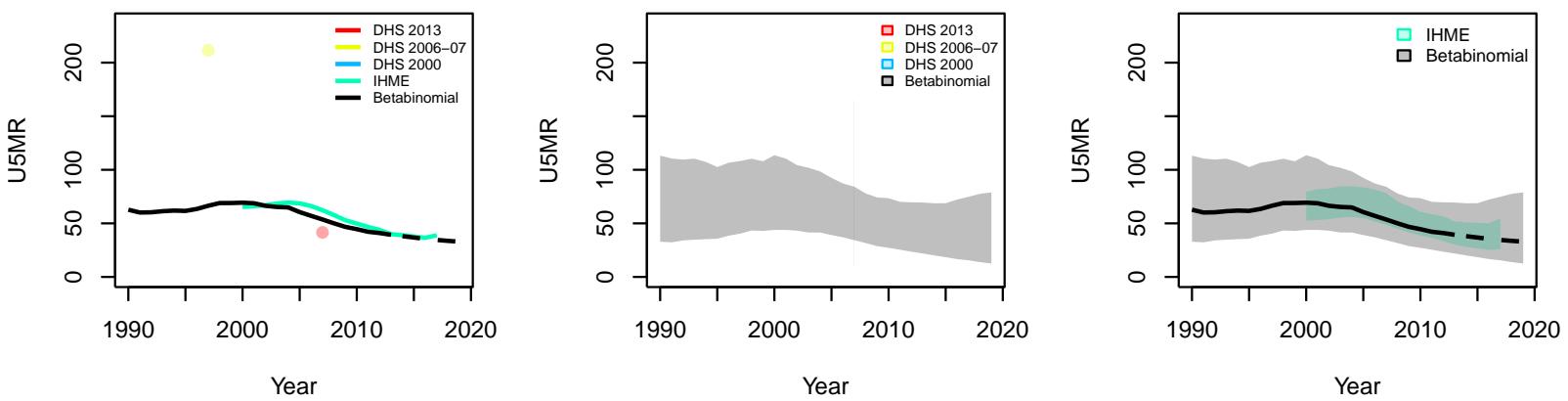
Otjombinde, Omaheke



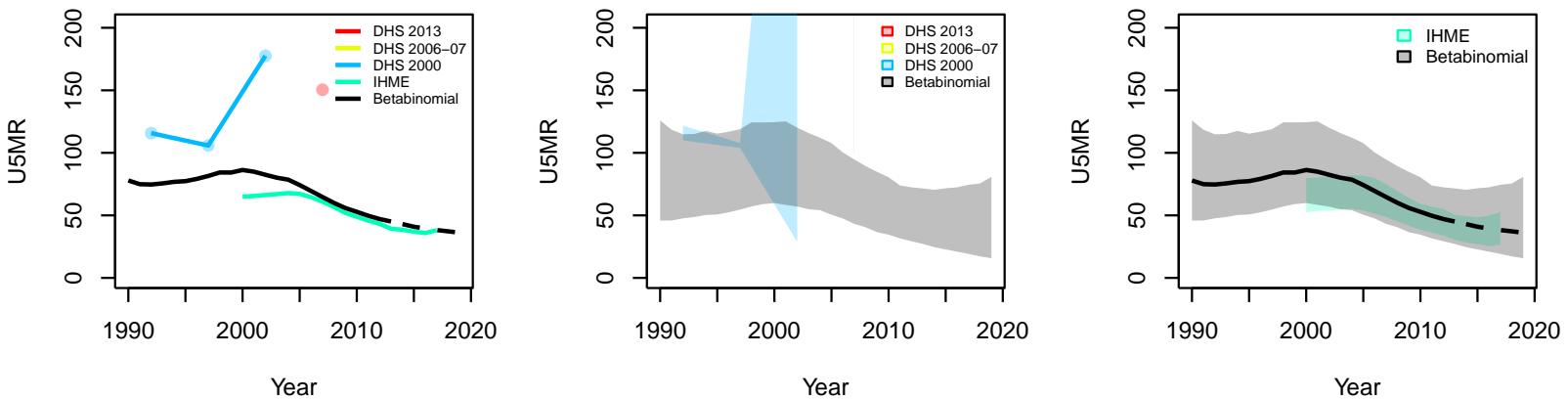
Steinhausen, Omaheke



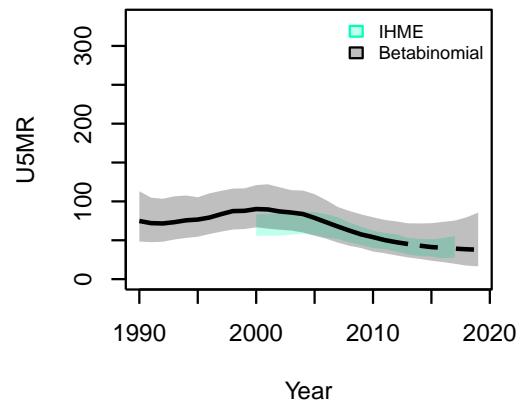
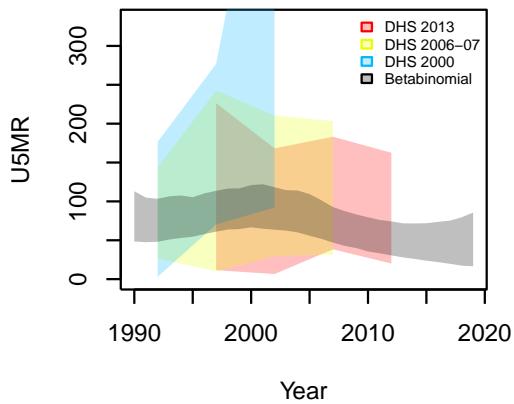
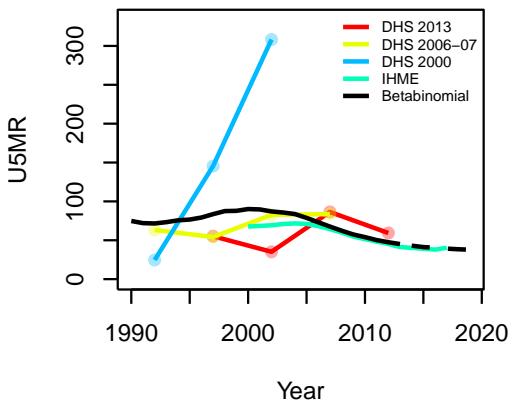
Anamulenge, Omusati



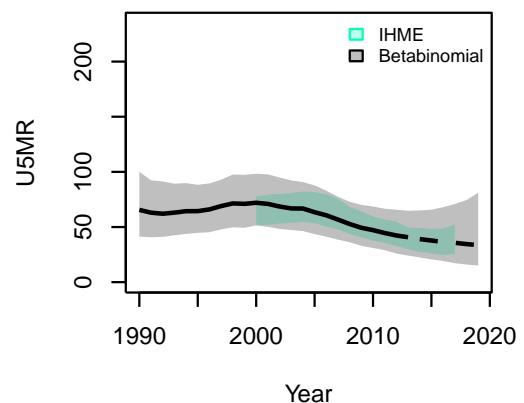
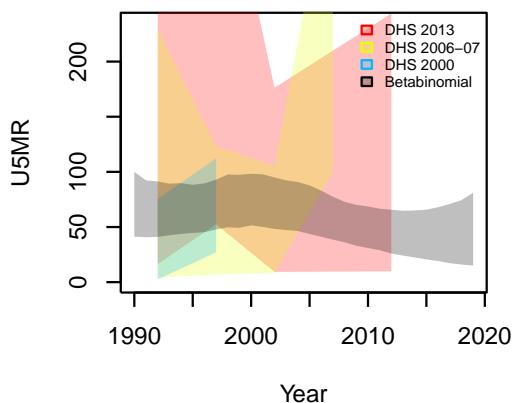
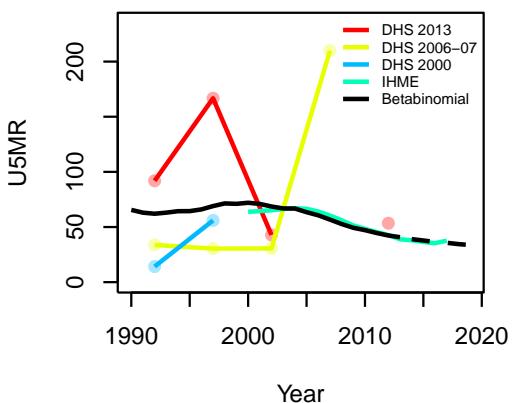
Elim, Omusati



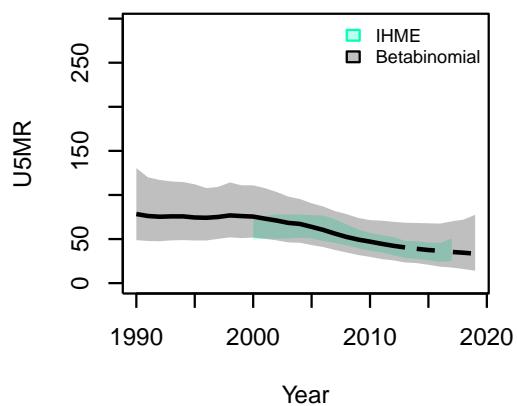
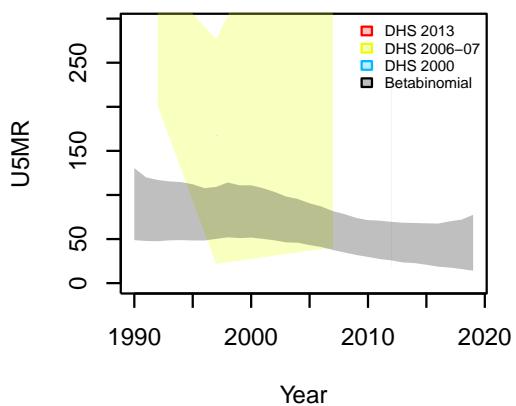
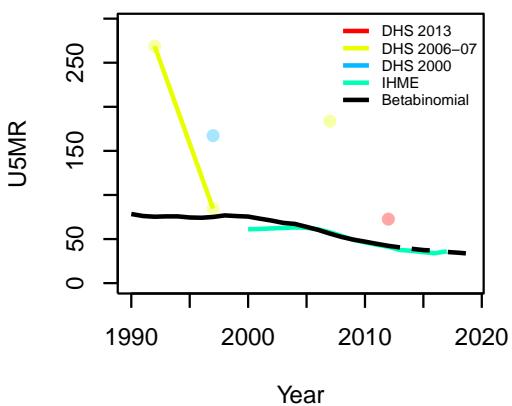
Etayi, Omusati



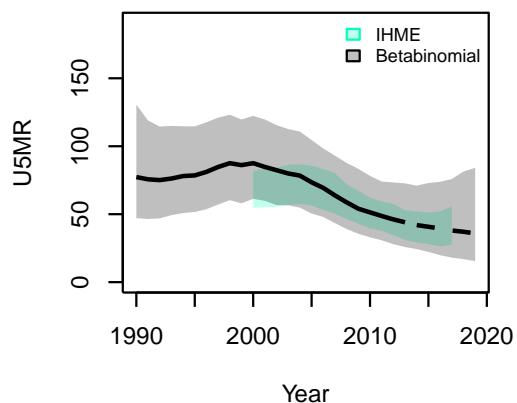
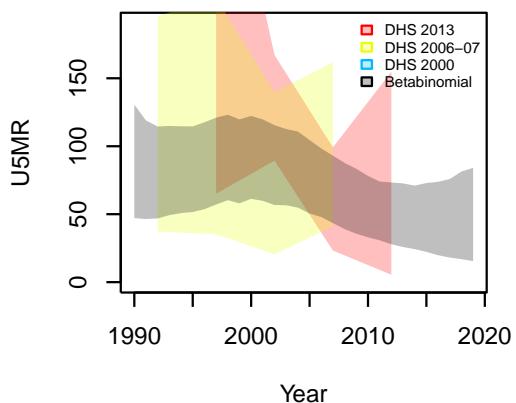
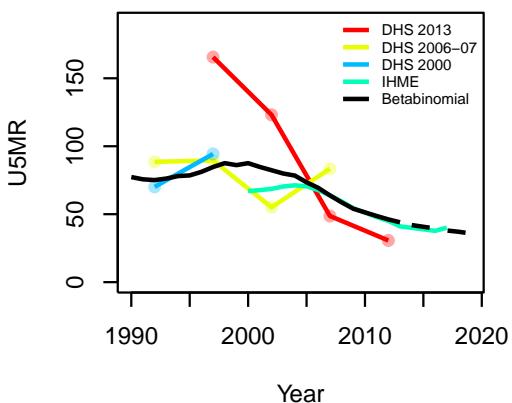
Ogongo, Omusati



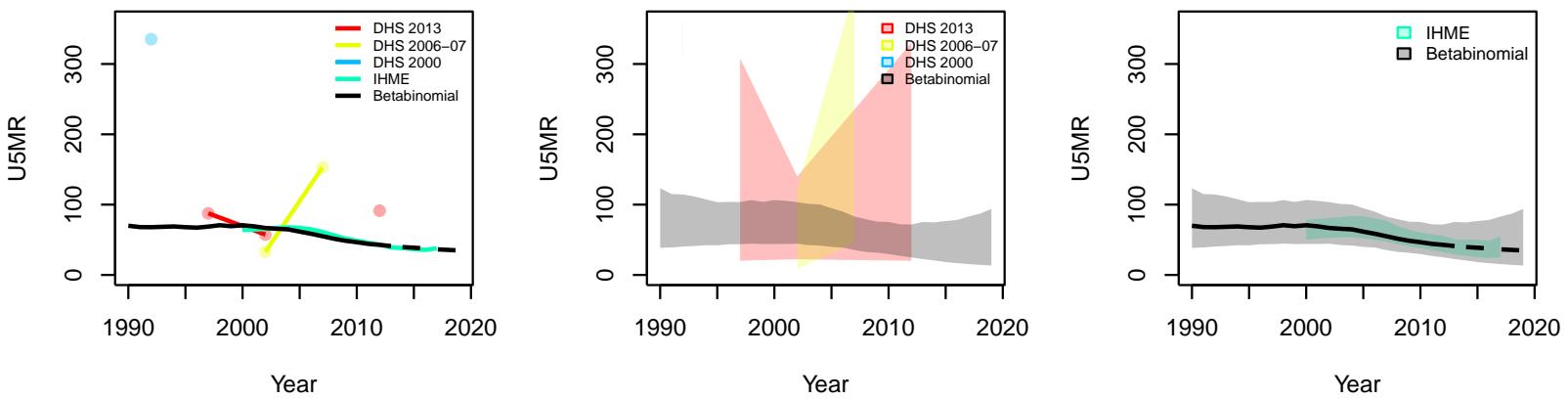
Okahao, Omusati



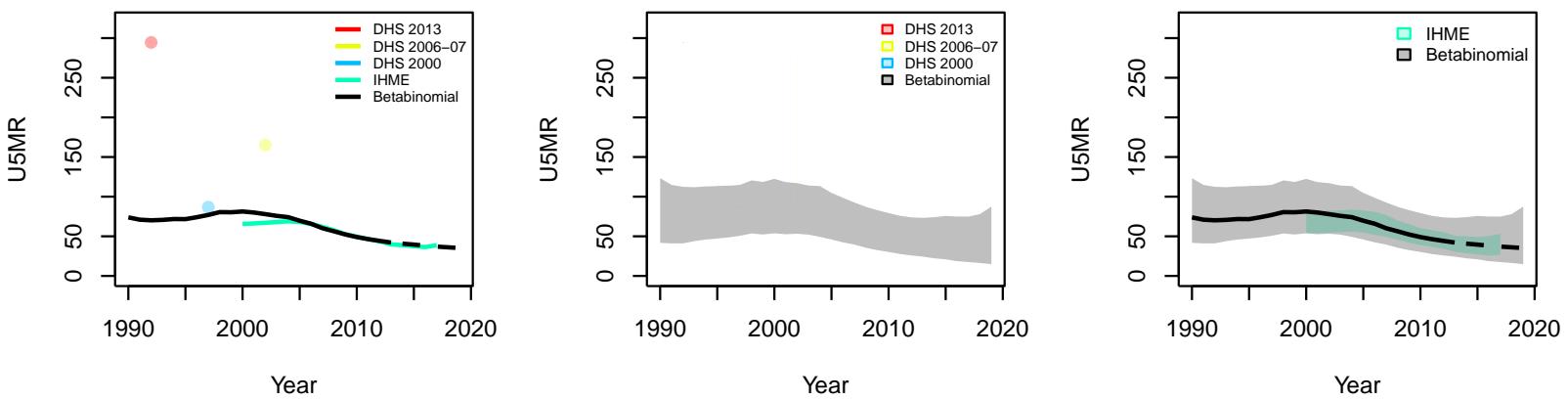
Okalongo, Omusati



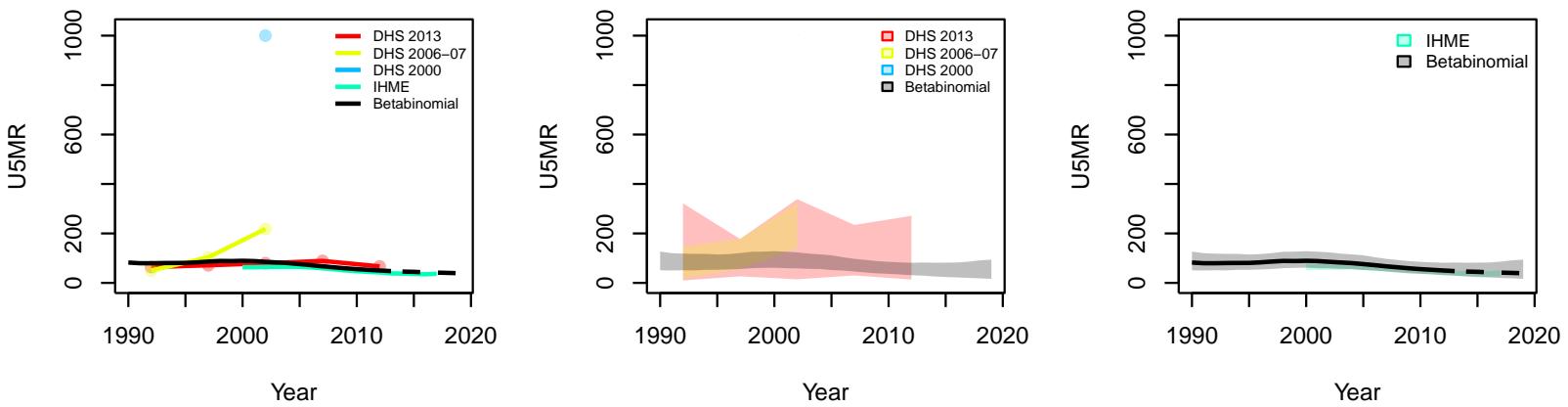
Onesi, Omusati



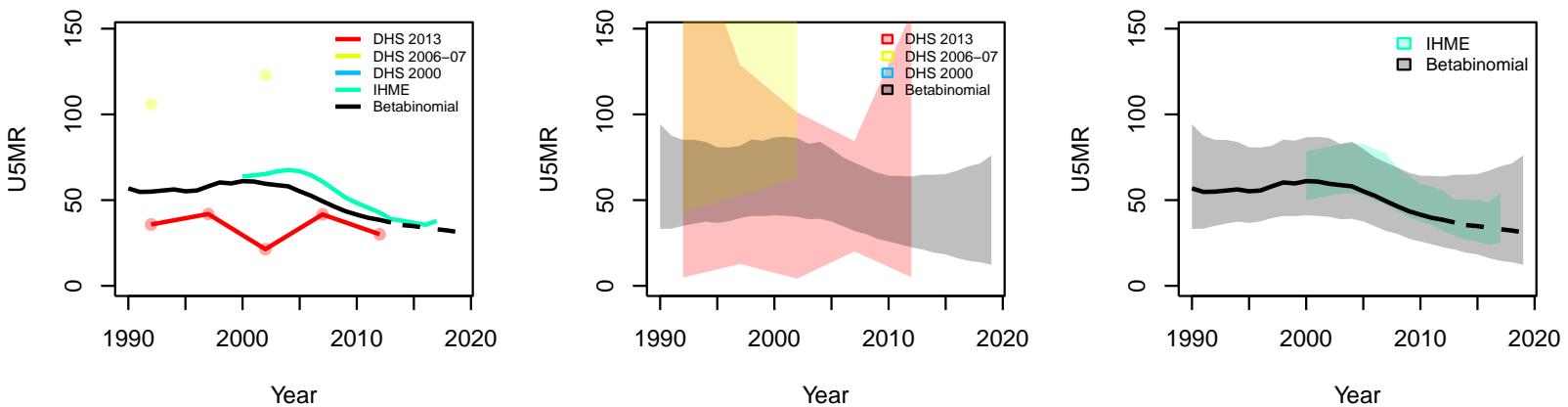
Oshikuku, Omusati



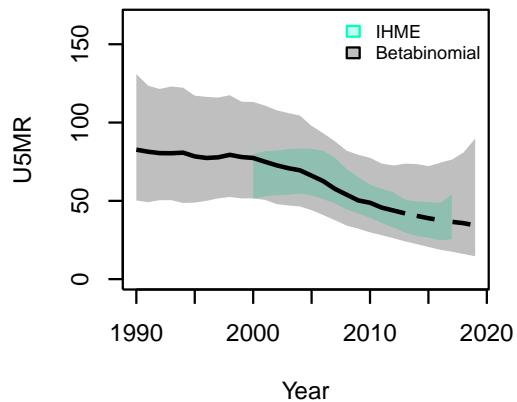
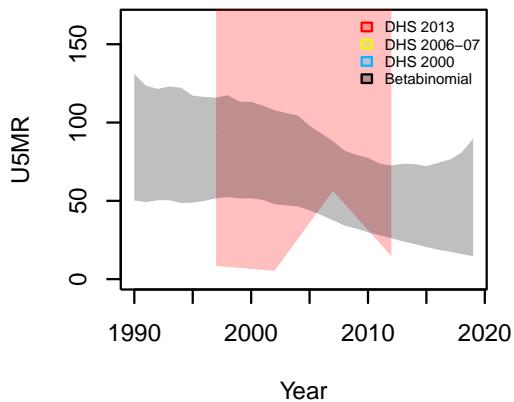
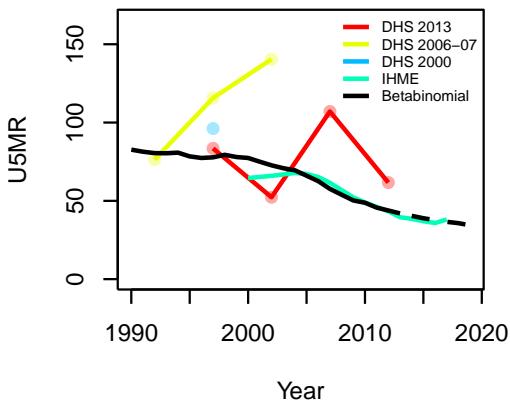
Otamanzi, Omusati



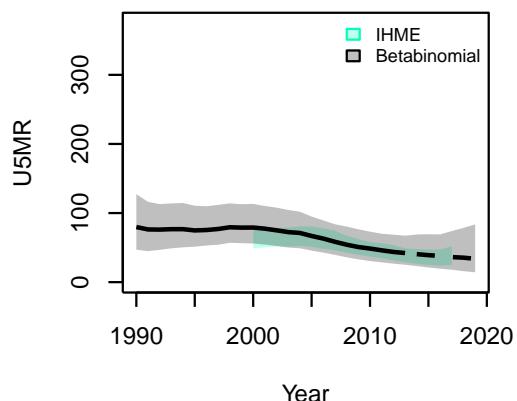
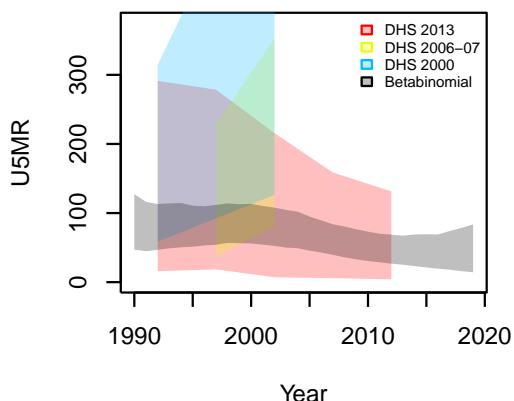
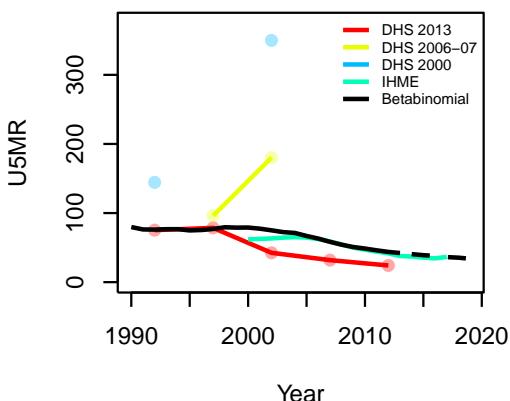
Outapi, Omusati



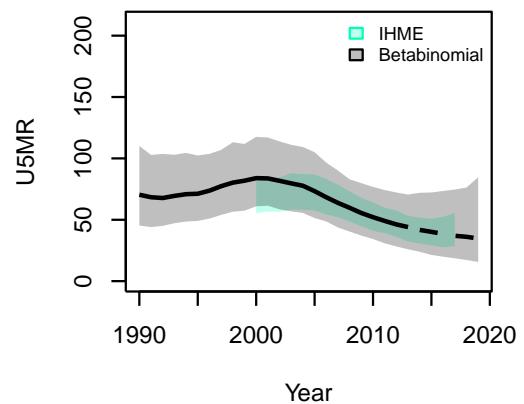
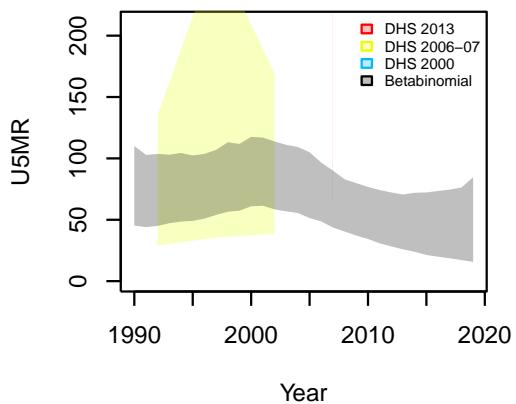
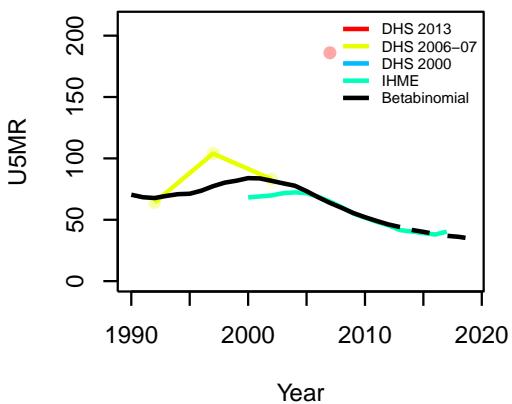
Ruacana, Omusati



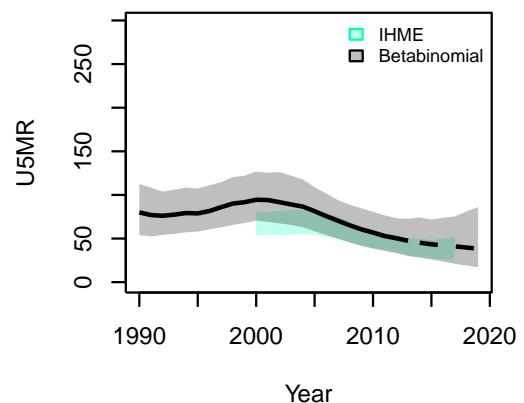
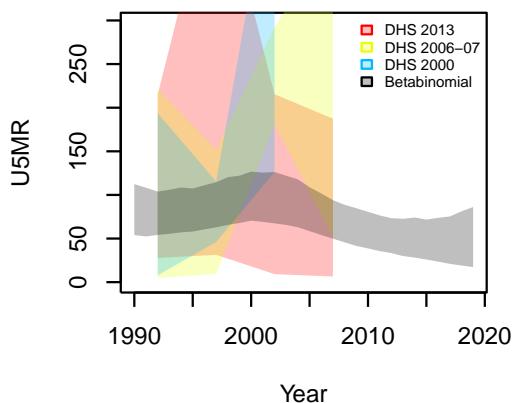
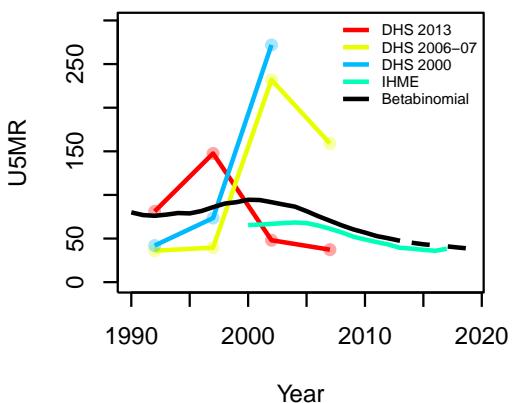
Tsandi, Omusati



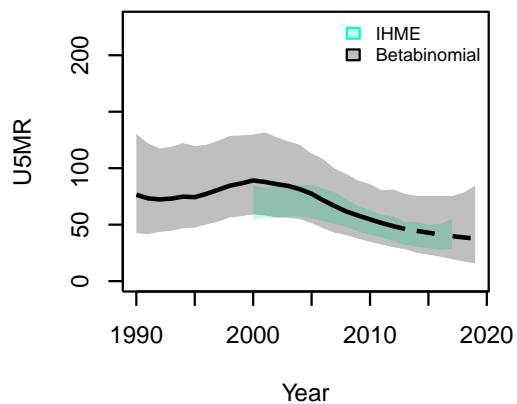
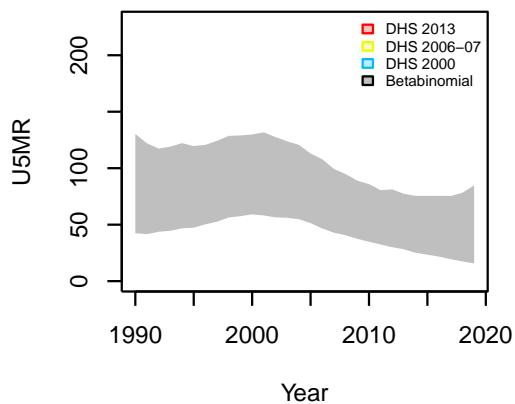
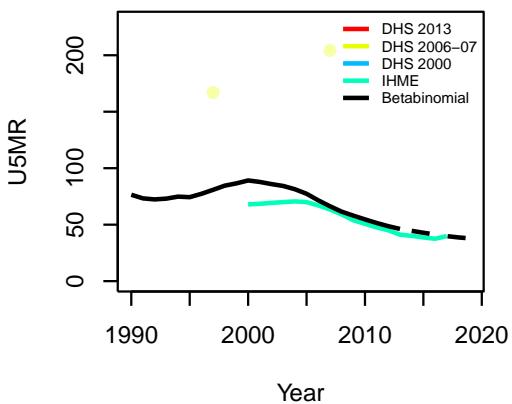
Okaku, Oshana



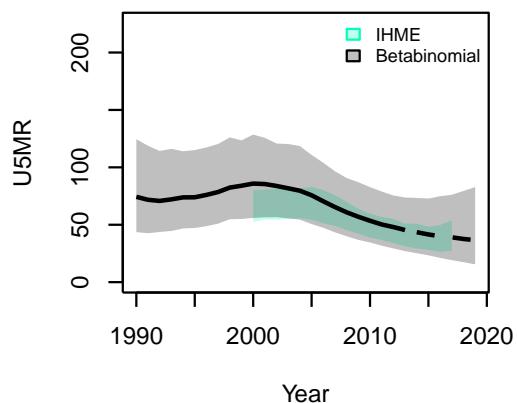
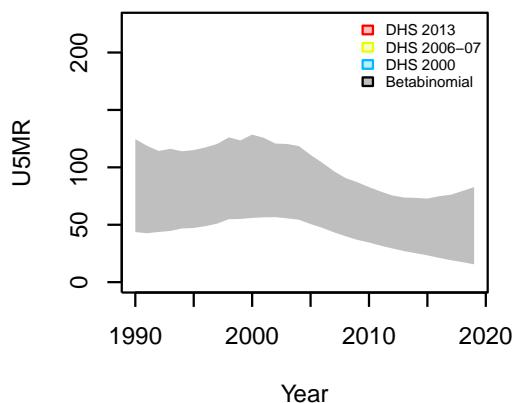
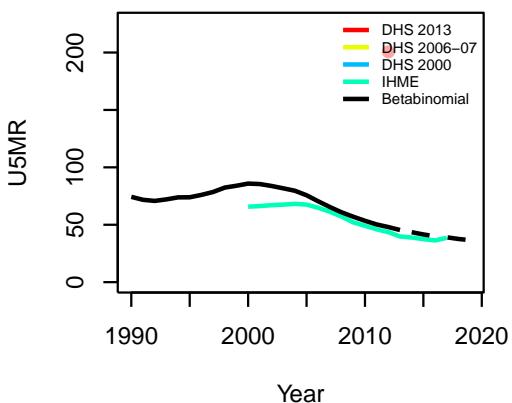
Okatana, Oshana



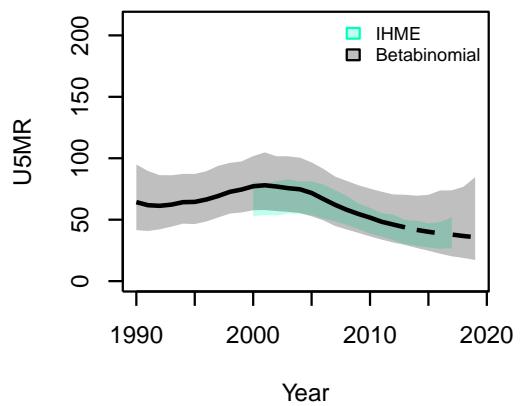
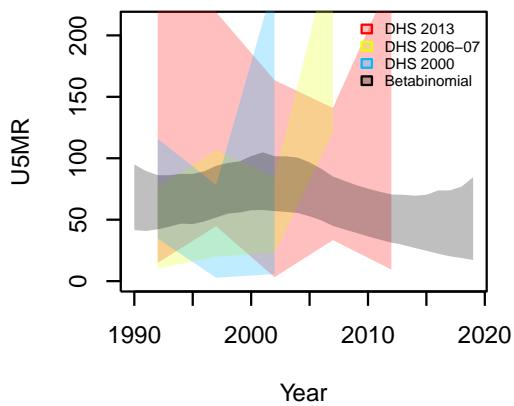
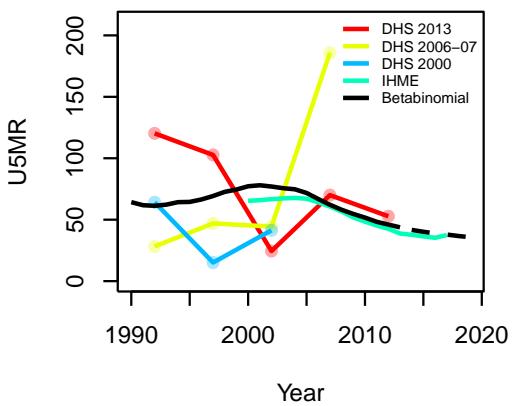
Okatyali, Oshana



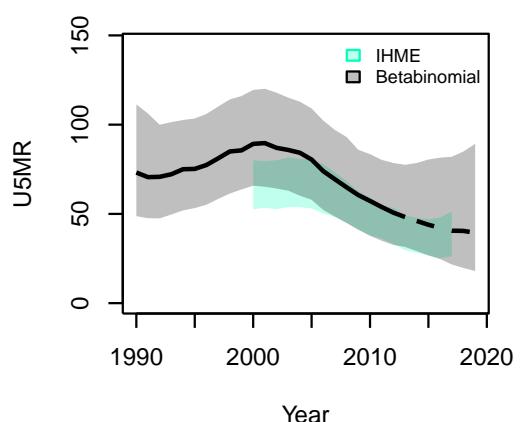
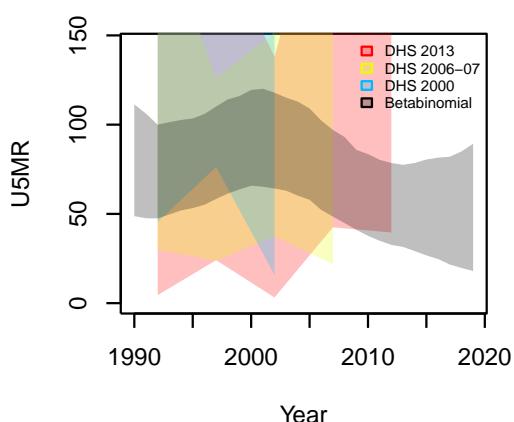
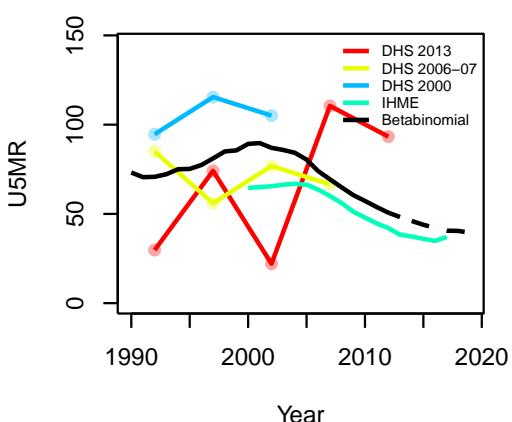
Ompundja, Oshana



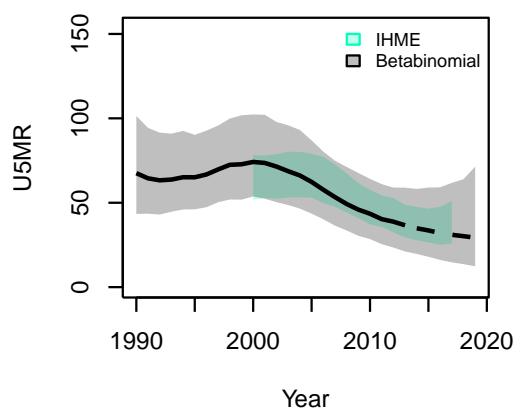
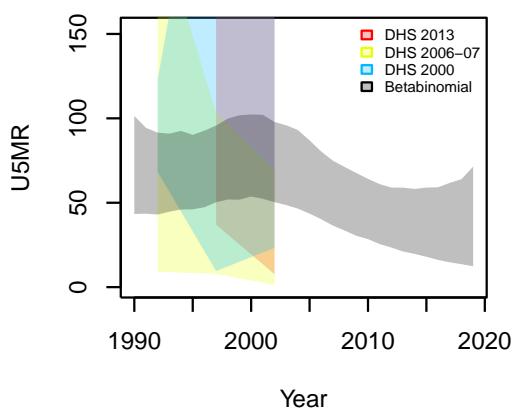
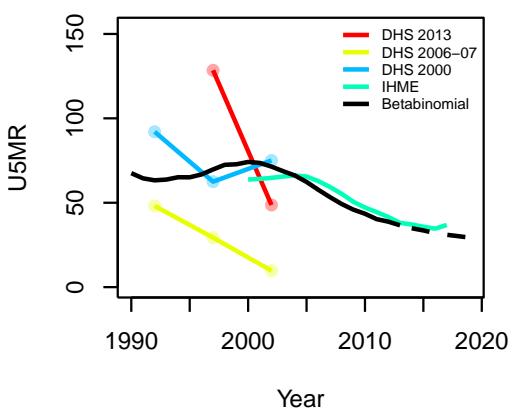
Ondangwa, Oshana



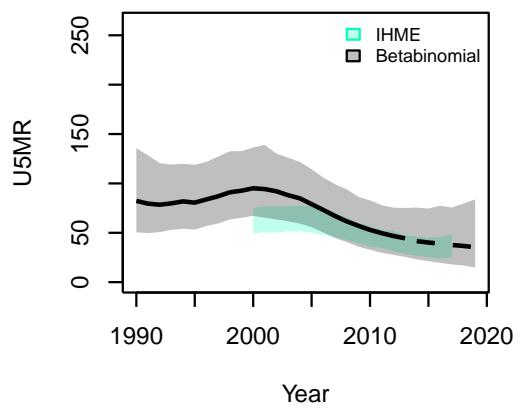
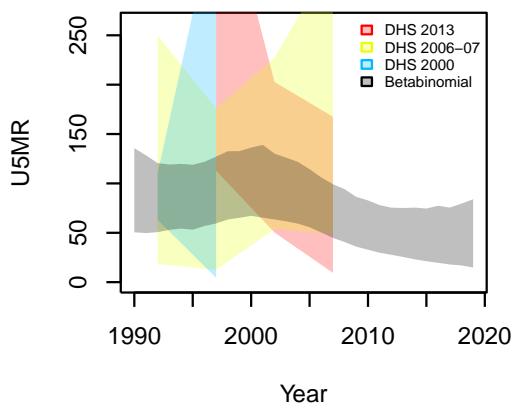
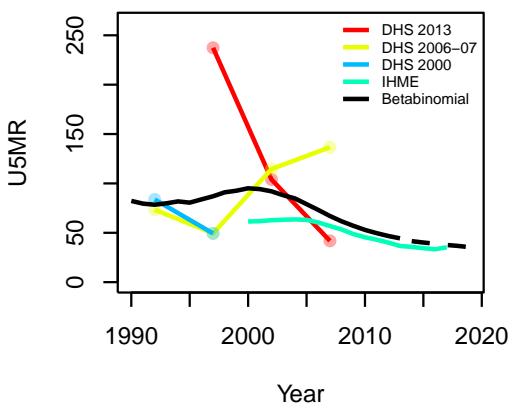
Ongwediva, Oshana



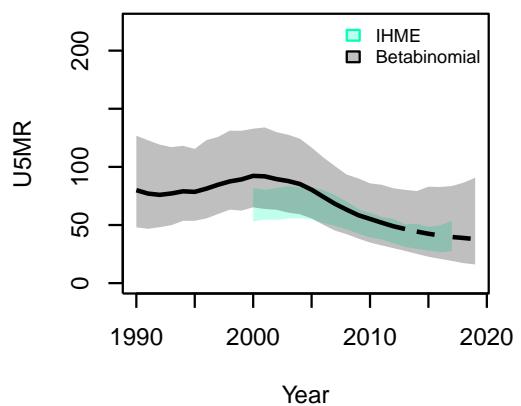
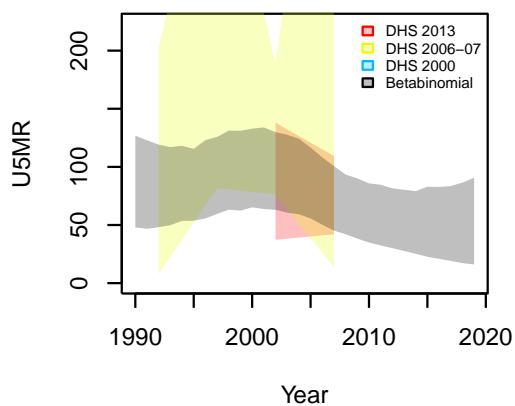
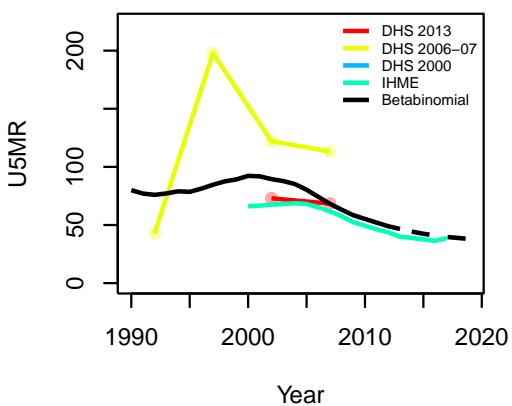
Oshakati East, Oshana



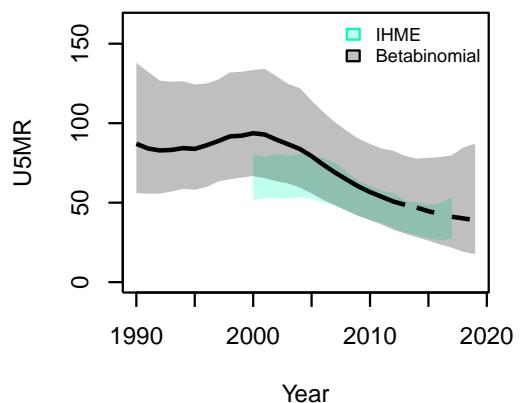
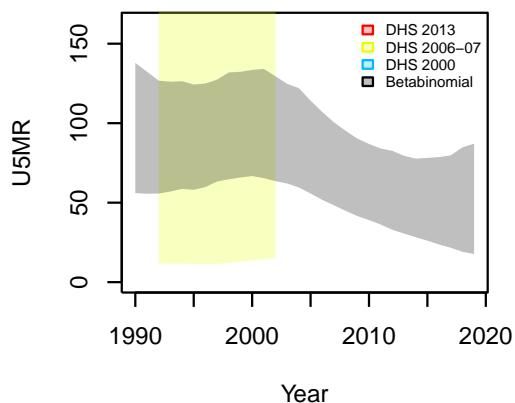
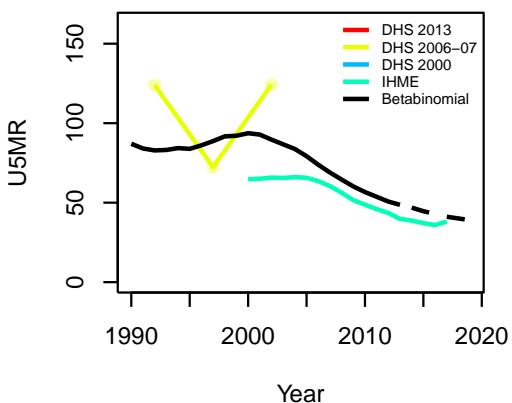
Oshakati West, Oshana



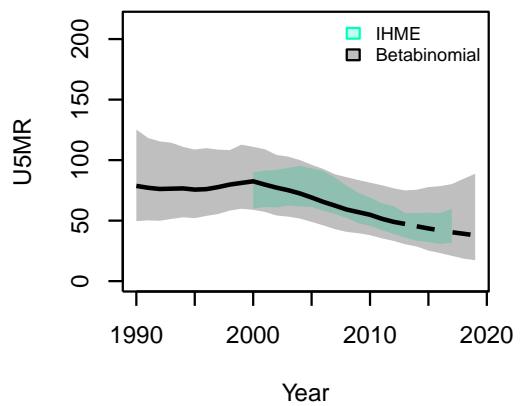
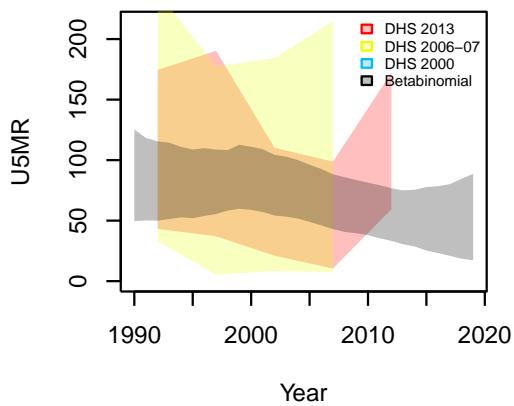
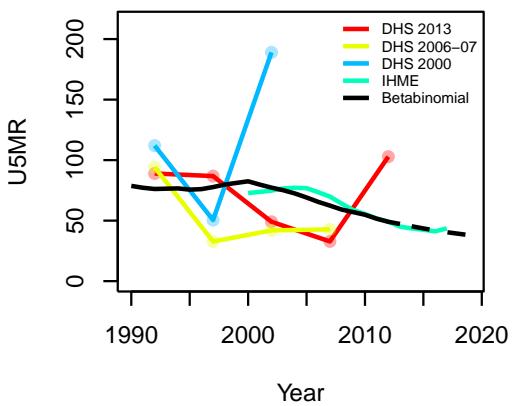
Uukwiyu, Oshana



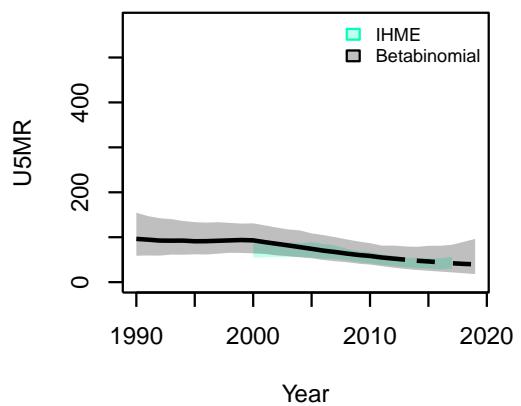
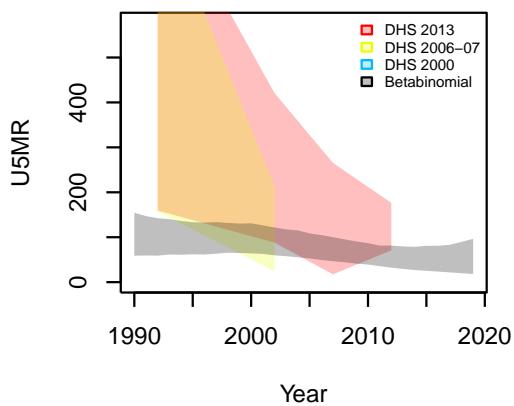
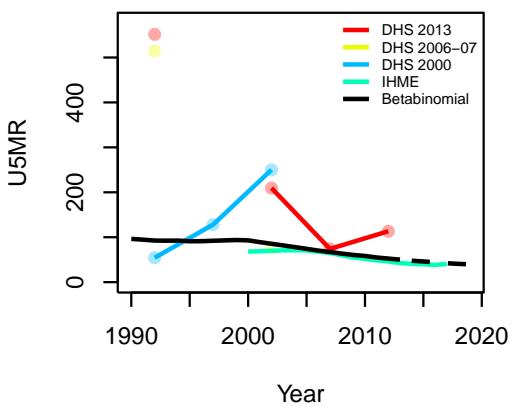
Uuvudhiya, Oshana



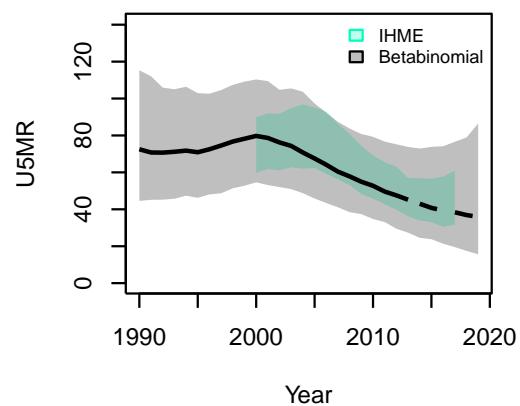
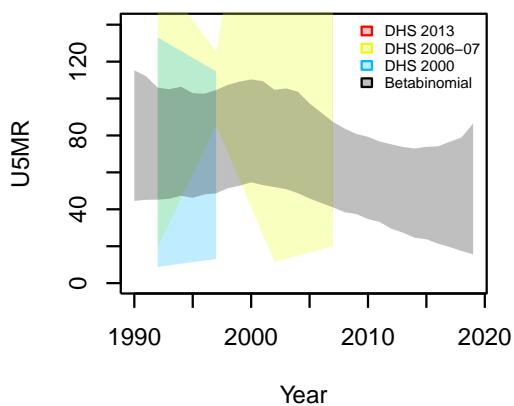
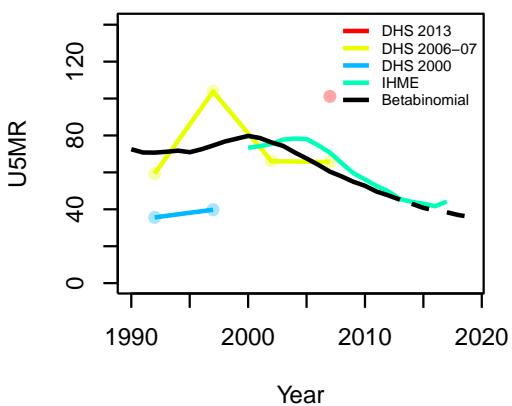
Engodi, Oshikoto



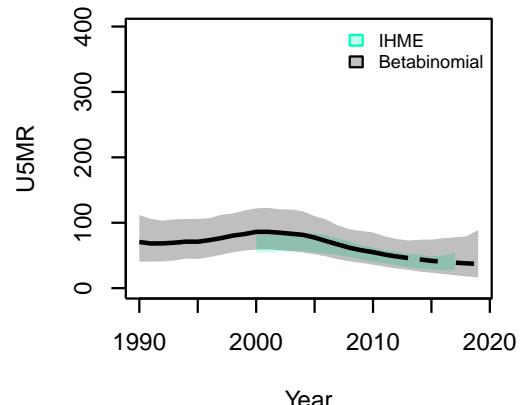
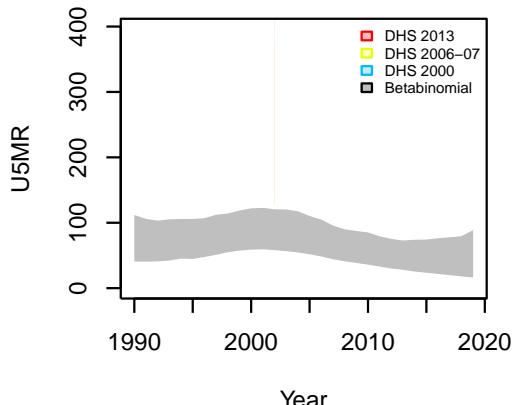
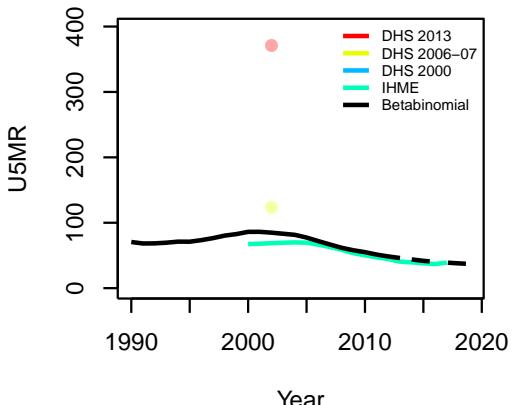
Guinas, Oshikoto



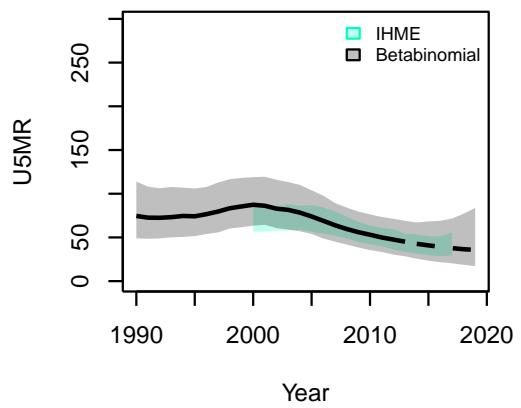
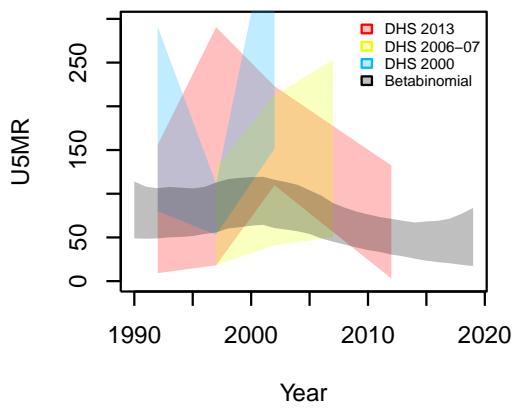
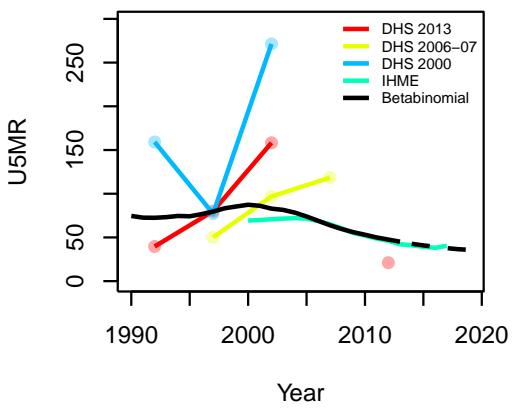
Okankolo, Oshikoto



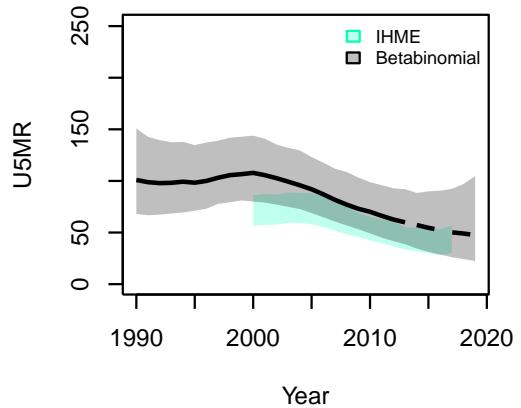
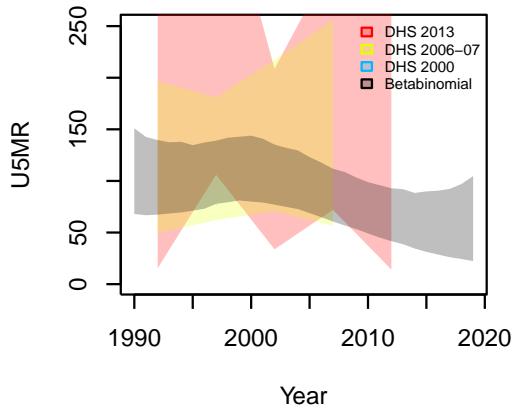
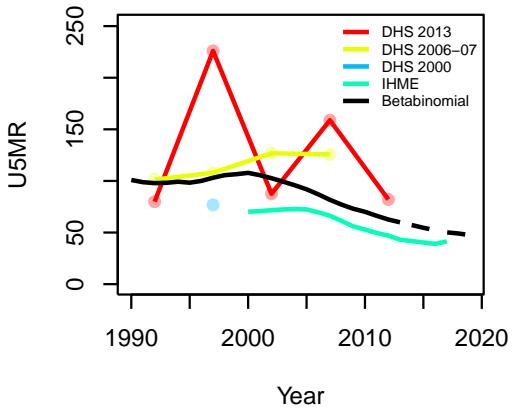
Olukonda, Oshikoto



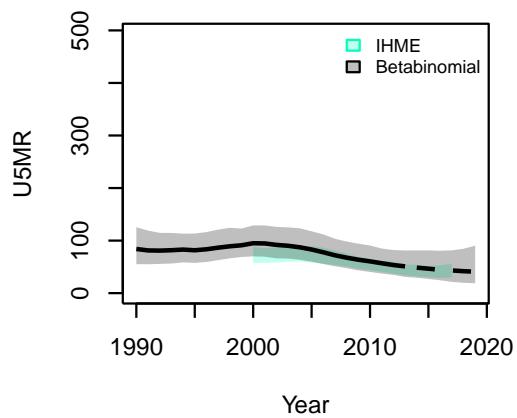
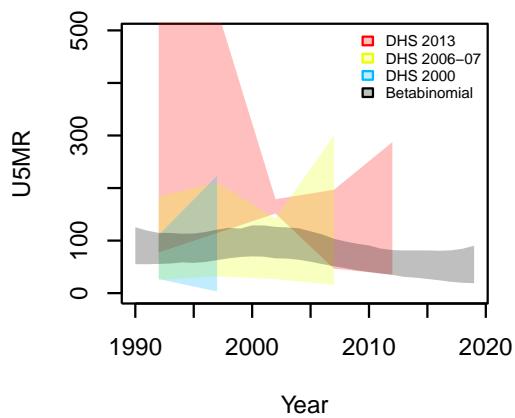
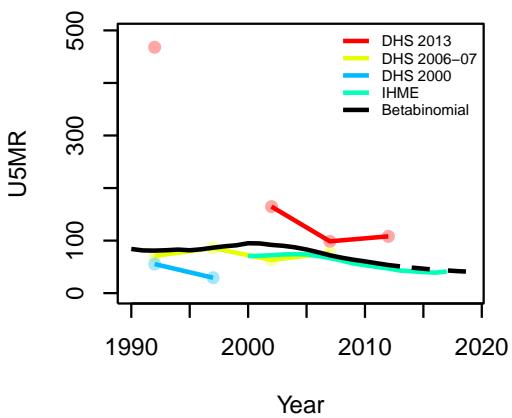
Omuntele, Oshikoto



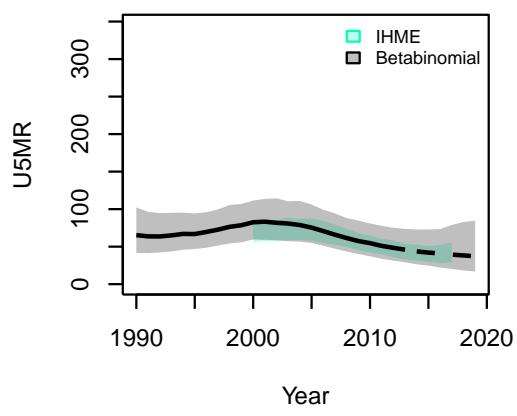
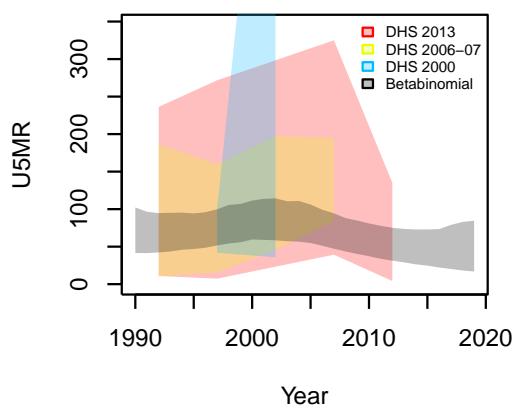
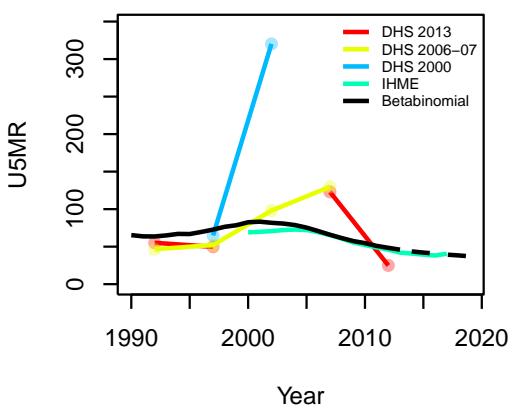
Omuthiyagwipundi, Oshikoto



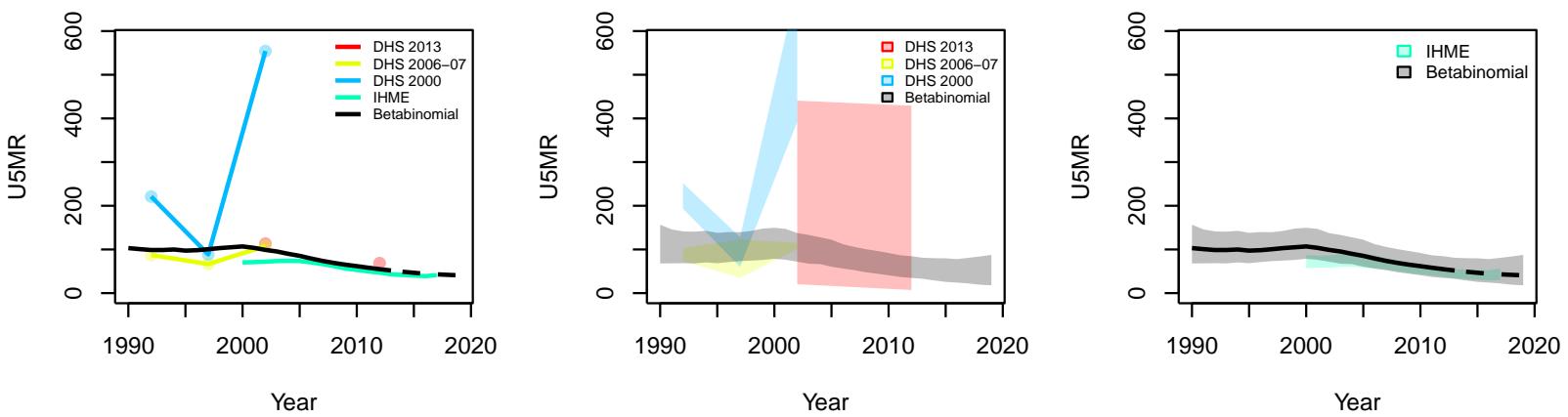
Onayena, Oshikoto



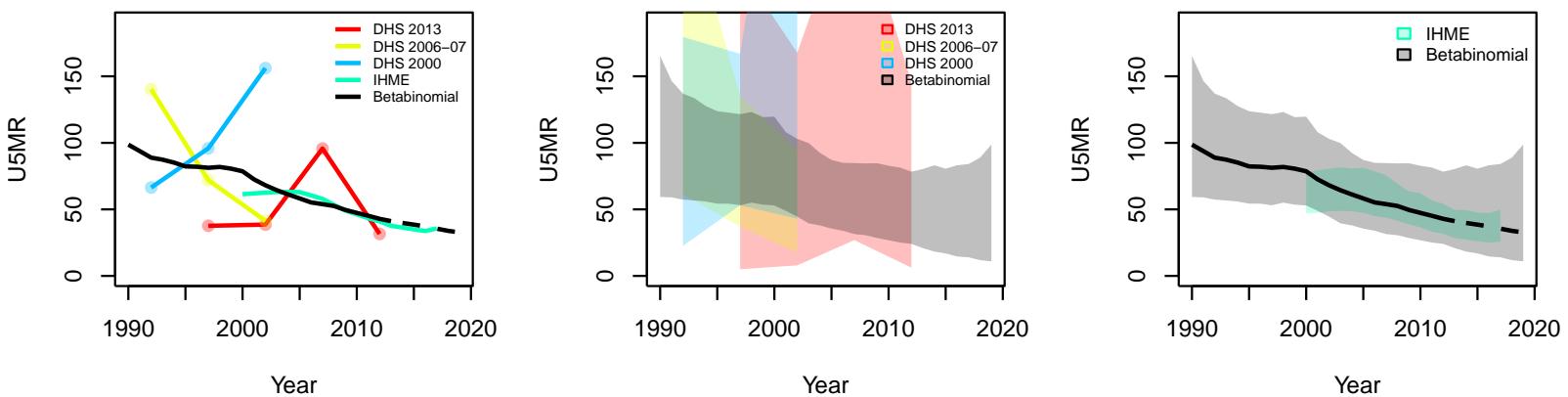
Oniipa, Oshikoto



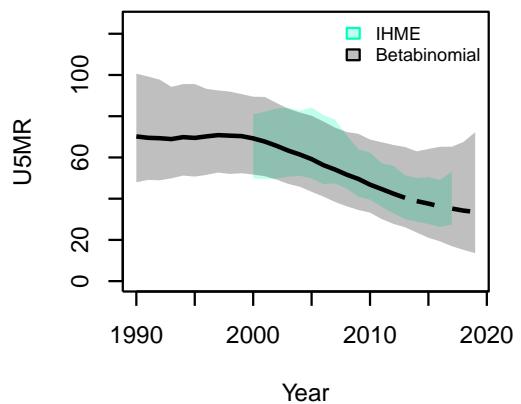
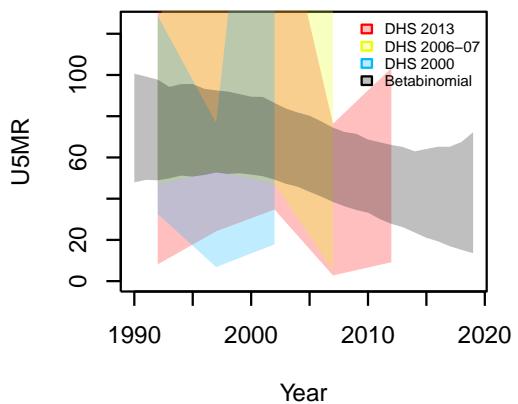
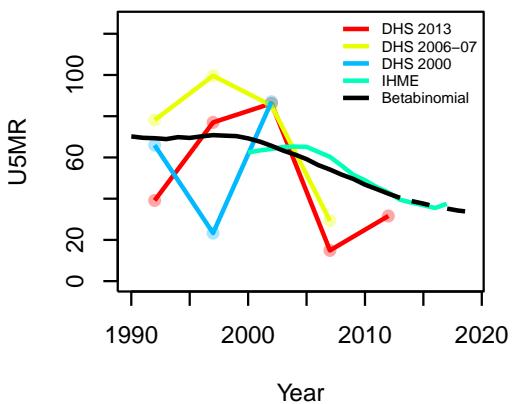
Onyaanya, Oshikoto



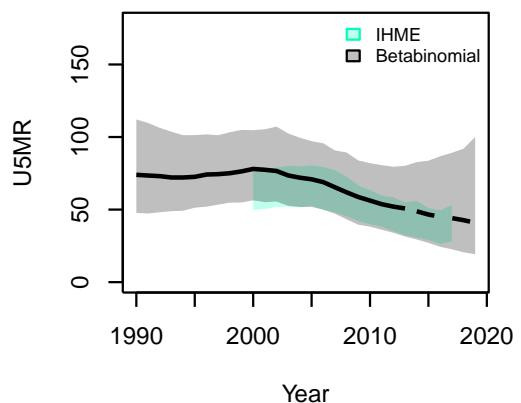
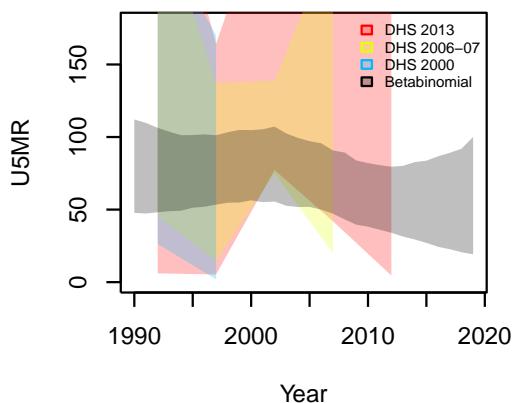
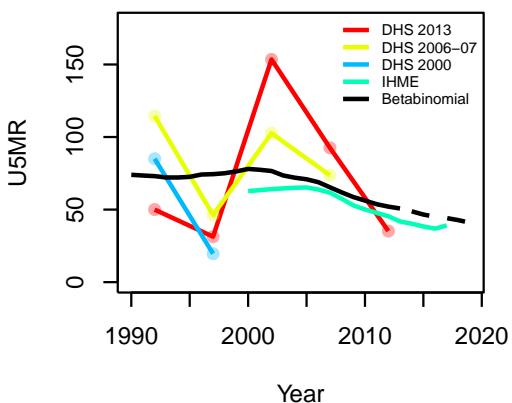
Tsumeb, Oshikoto



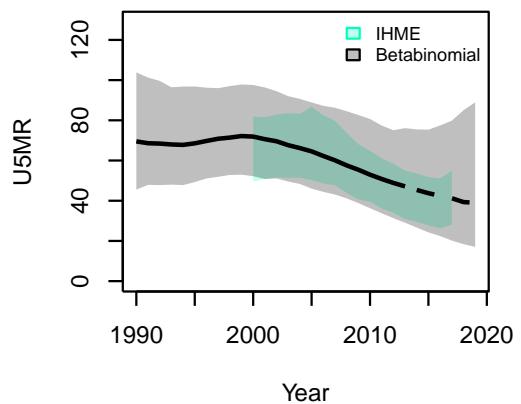
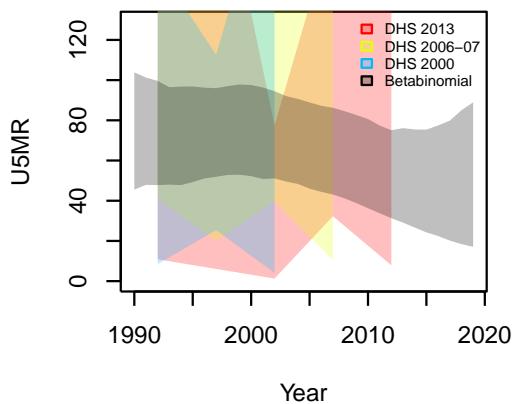
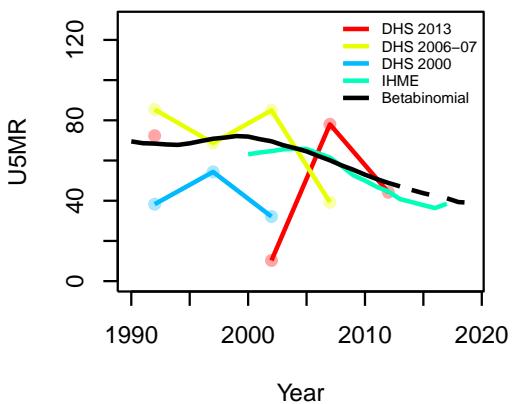
Grootfontein, Otjozondjupa



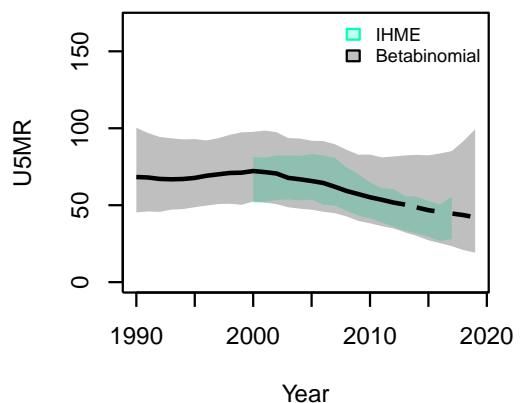
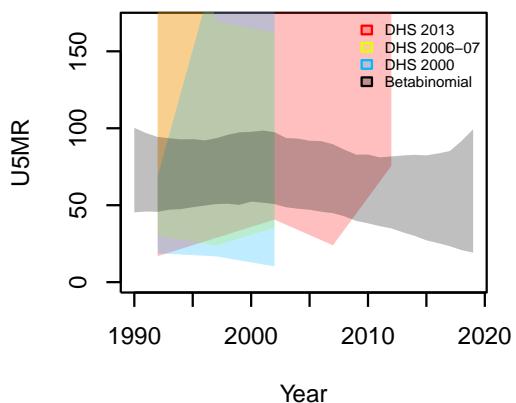
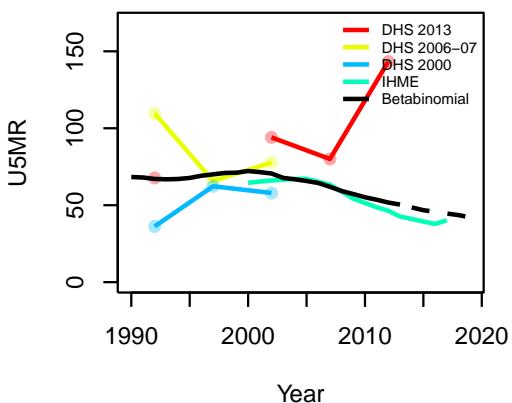
Okahandja, Otjozondjupa



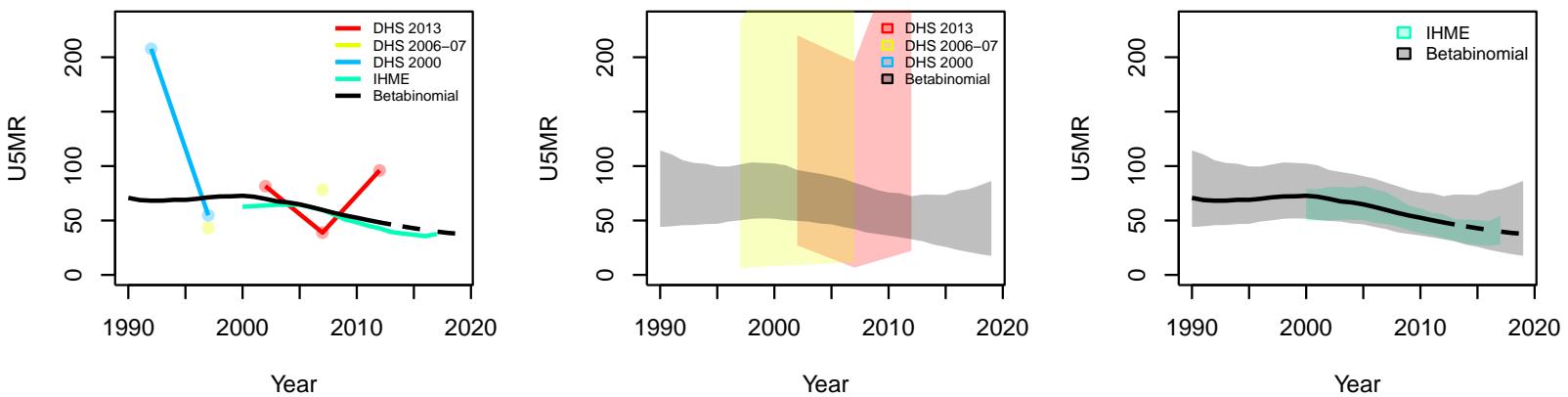
Okakarara, Otjozondjupa



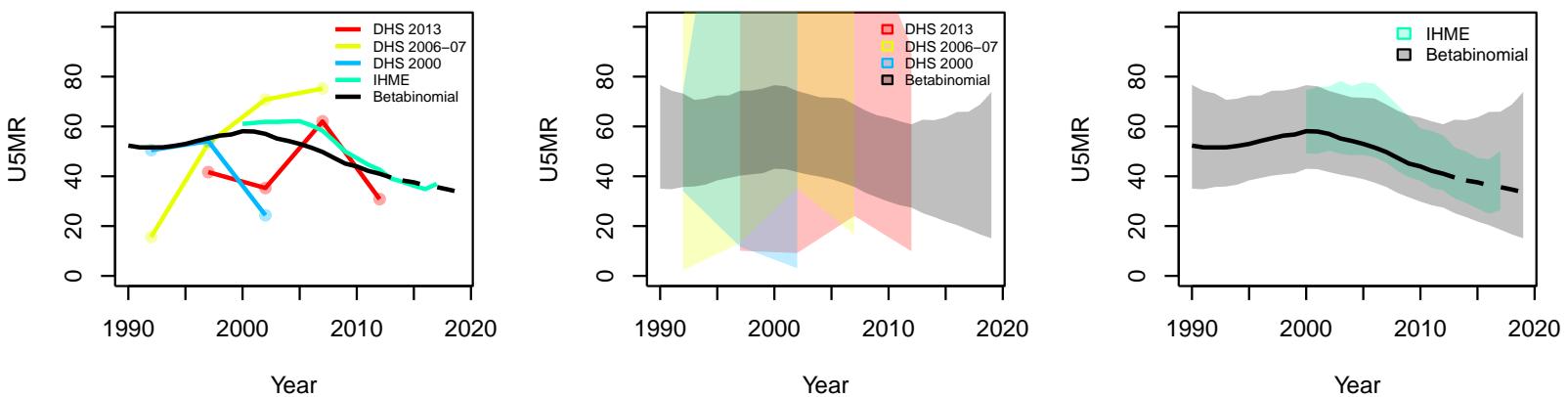
Omatako, Otjozondjupa



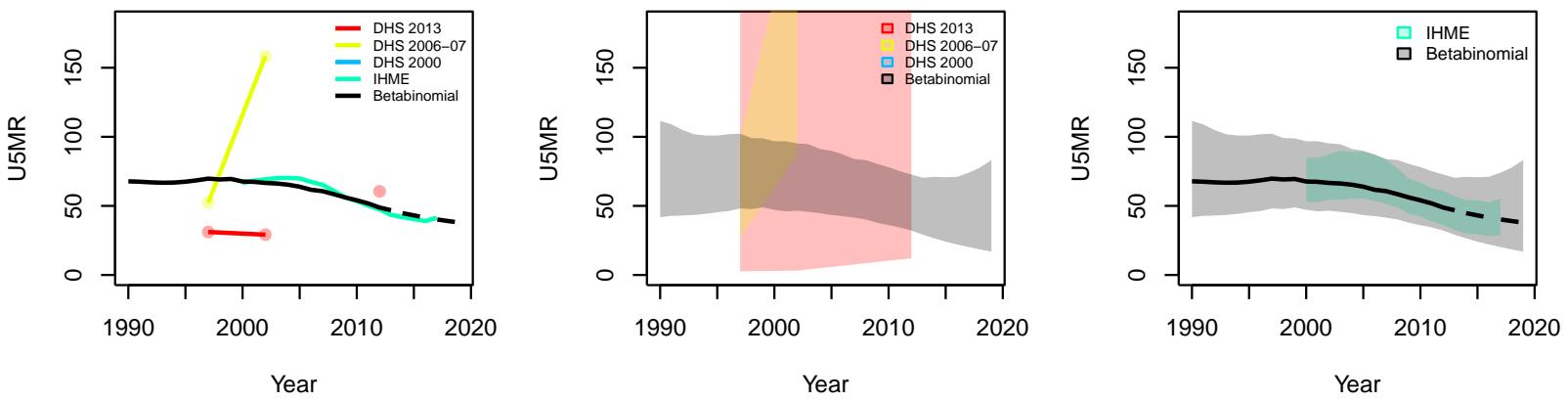
Otavi, Otjozondjupa



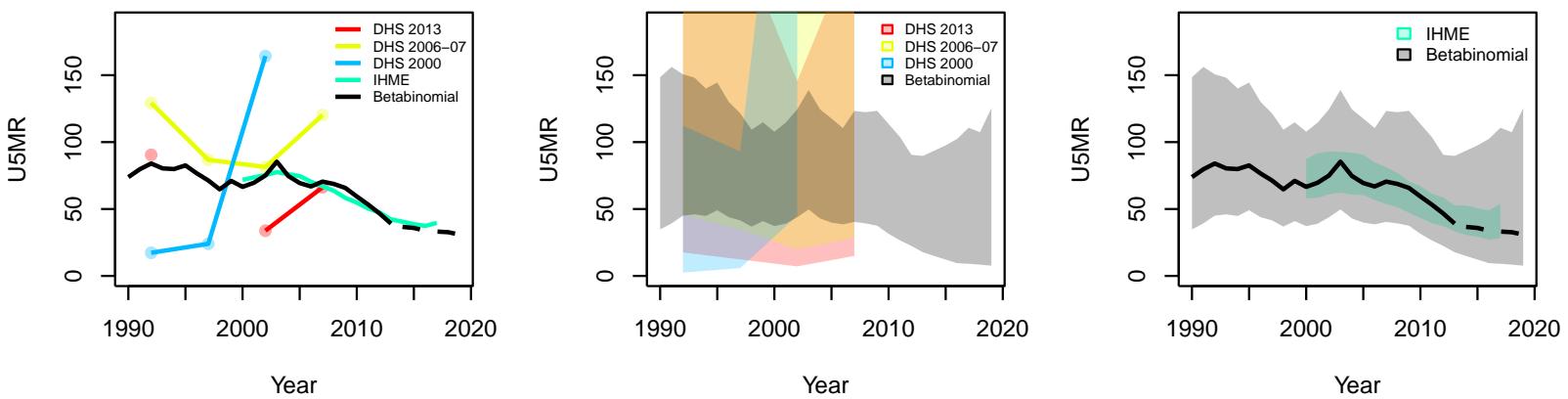
Otjiwarongo, Otjozondjupa



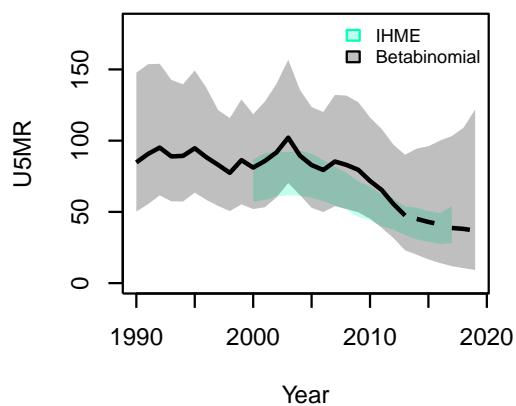
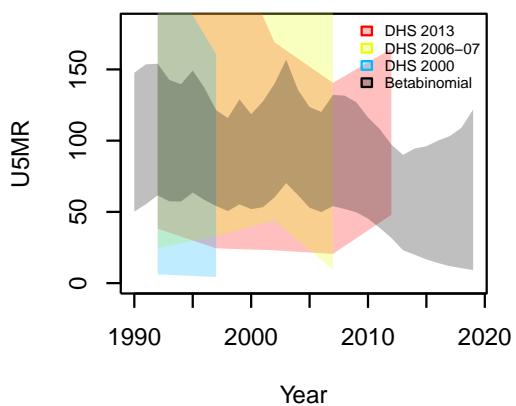
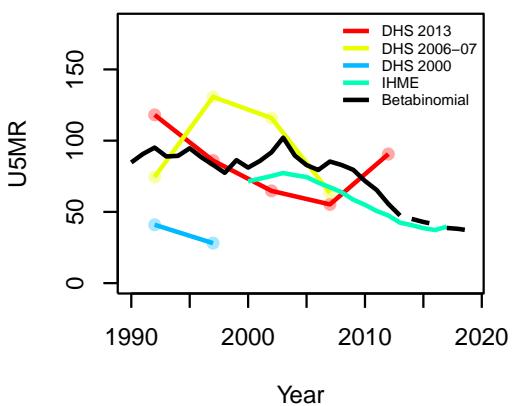
Tsumkwe, Otjozondjupa



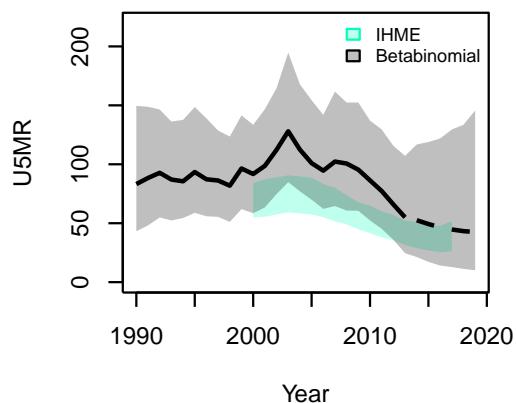
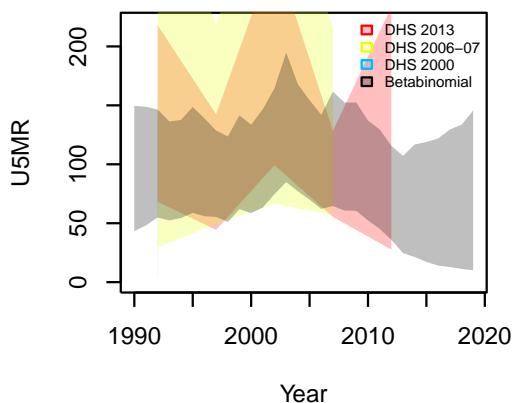
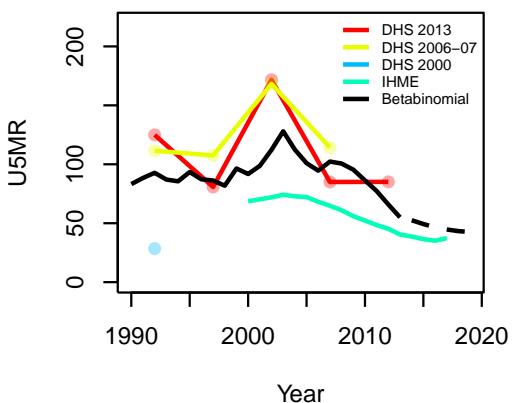
Kabe, Zambezi



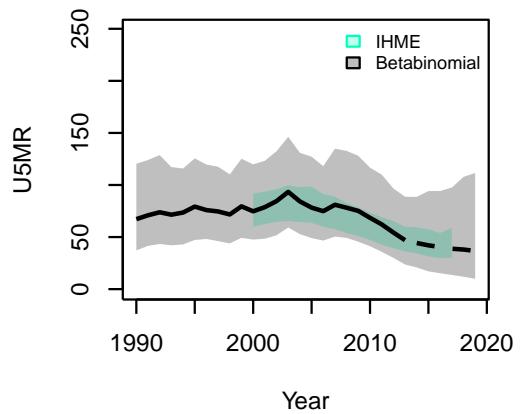
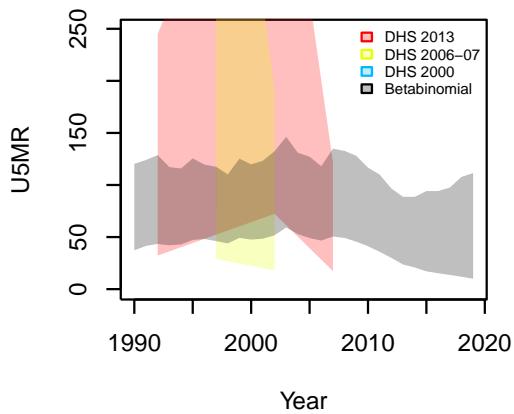
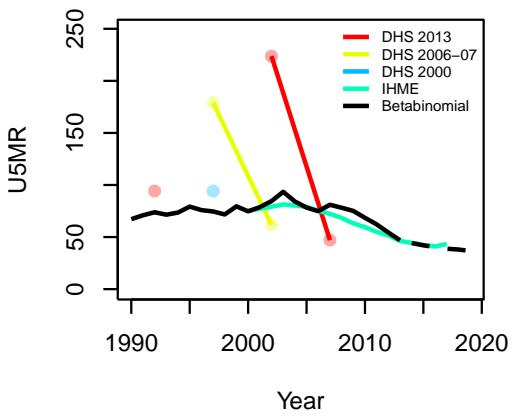
Katima Muliro Rural, Zambezi



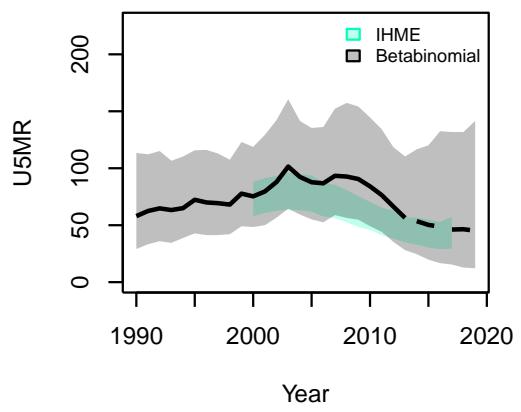
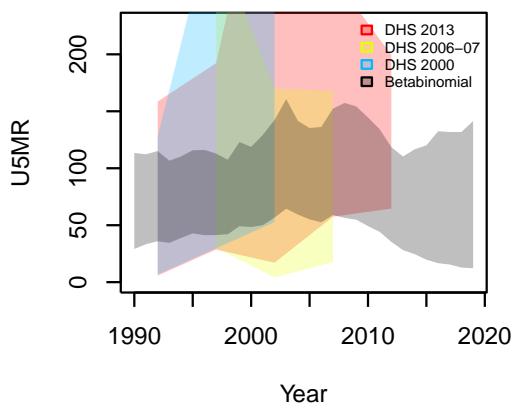
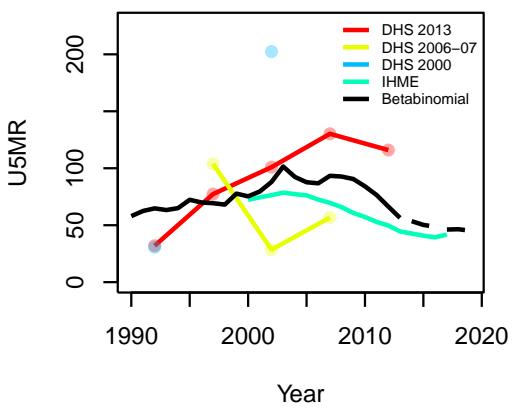
Katima Muliro Urban, Zambezi



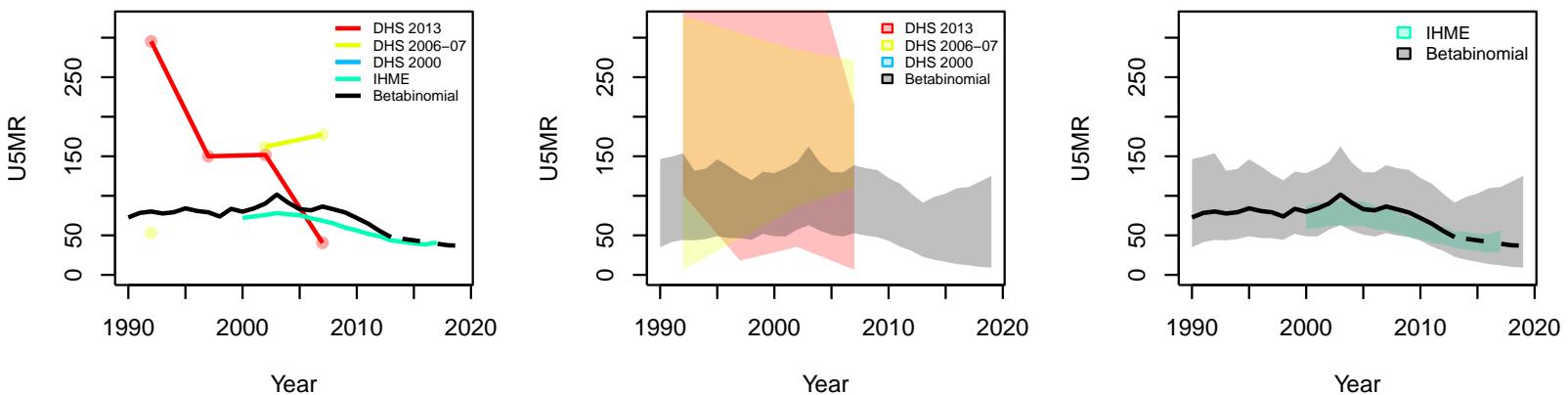
Kongola, Zambezi



Linyandi, Zambezi



Sibinda, Zambezi



4 National Figures and Results

	Median	Interval	Median-	Bench	Interval
0	23.00	(20,26.6)	22.60	(19.2,26.6)	
1-11	1.90	(1.6,2.2)	1.80	(1.5,2.2)	
12-23	0.70	(0.6,0.9)	0.70	(0.5,0.8)	
24-35	0.40	(0.3,0.5)	0.40	(0.3,0.5)	
36-47	0.30	(0.2,0.4)	0.30	(0.2,0.3)	
48-59	0.20	(0.1,0.2)	0.20	(0.1,0.2)	

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

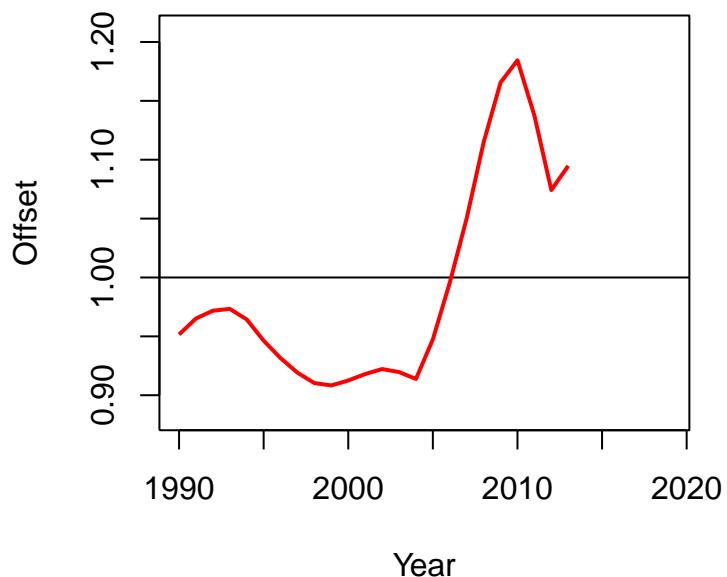


Figure 7: Benchmark offsets: $\text{BENCH}(t) = \text{U5MR}^*(t)/\text{U5MR}(t)$ where $\text{U5MR}^*(t)$ is modeled estimate and $\text{U5MR}(t)$ is UN-IGME estimate.

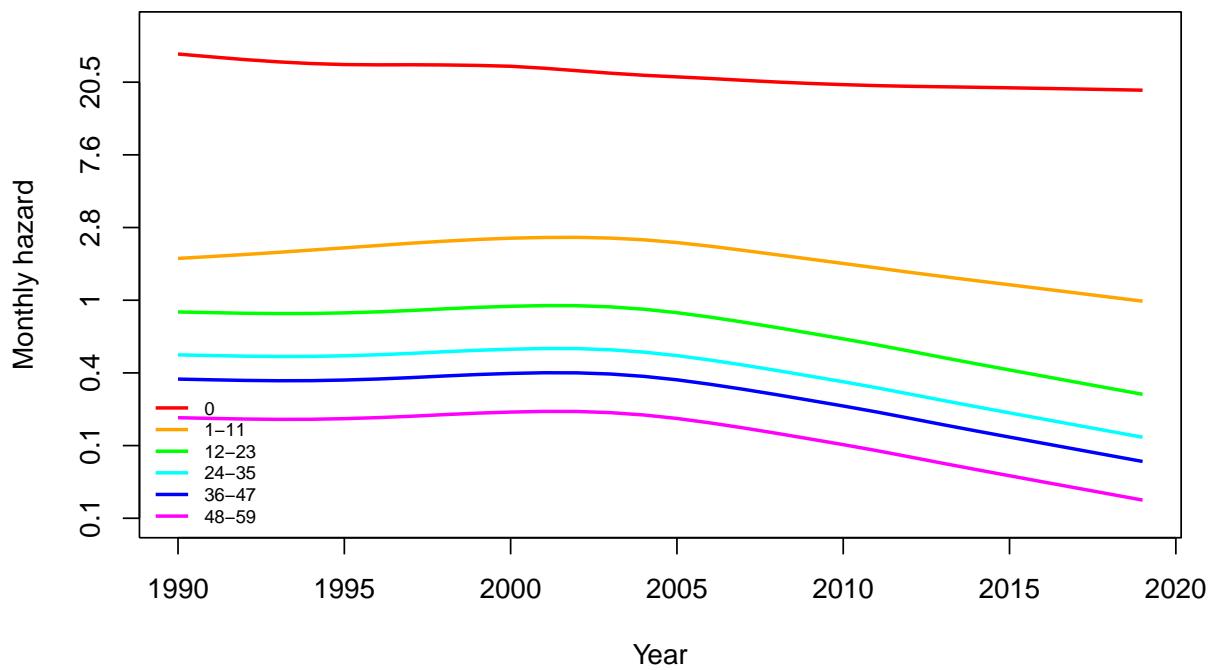


Figure 8: Monthly hazards of death in terms of U5MR (number deaths per 1000 children) by agebands.

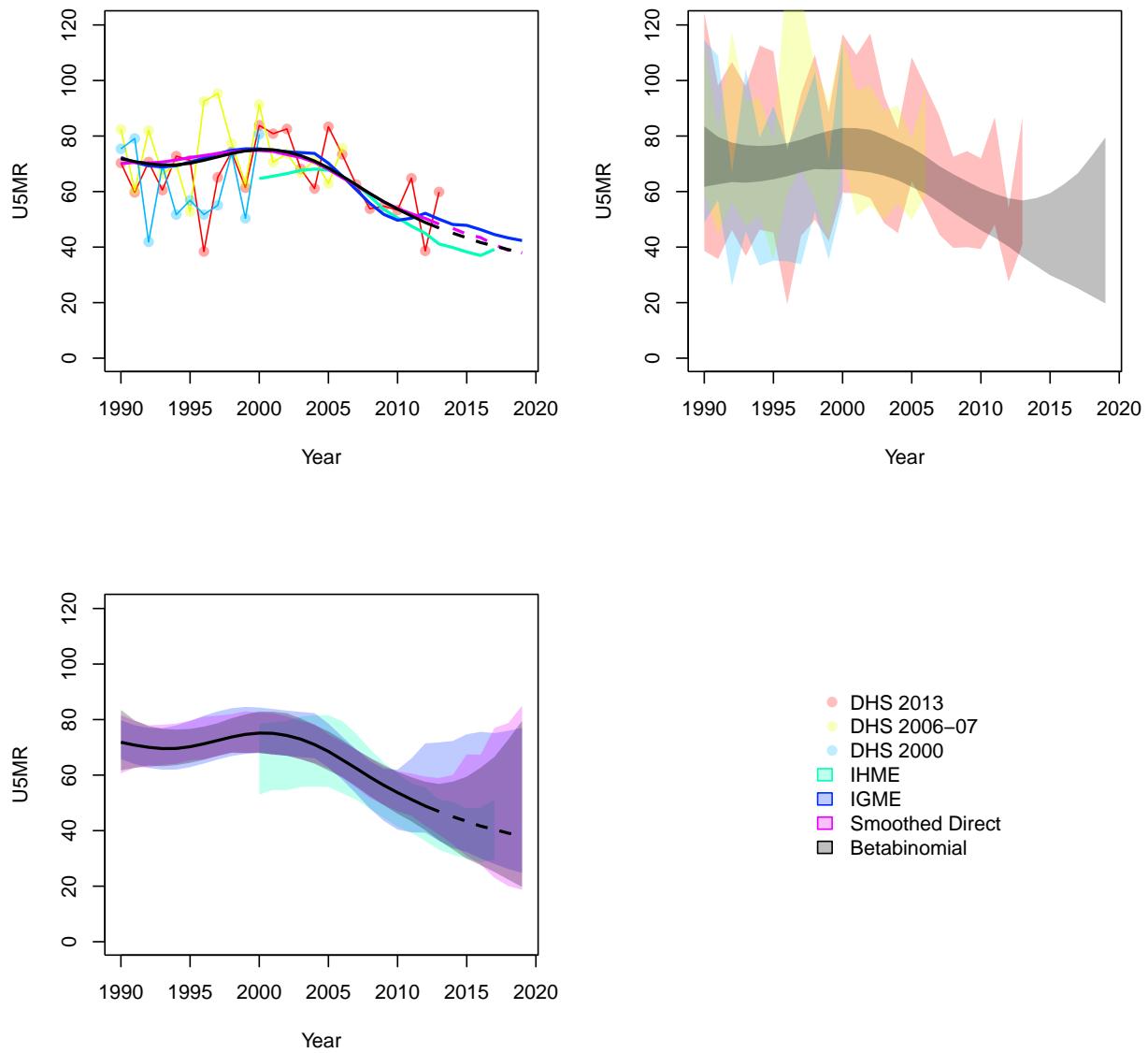
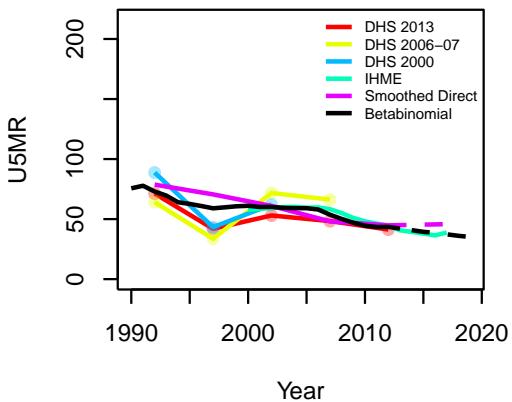


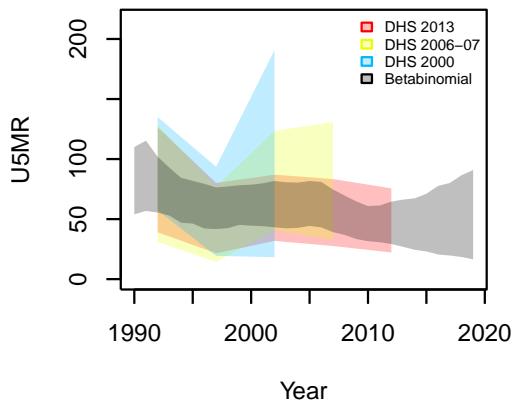
Figure 9: Benchmarked U5MR rates per 1000 live births. Top: DHS direct estimates with national trends from IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates. Middle: 95% uncertainty intervals for DHS data. Bottom: IHME GBD, UN-IGME, Smoothed Direct and Betabinomial estimates with for the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

5 Admin 1 Figures

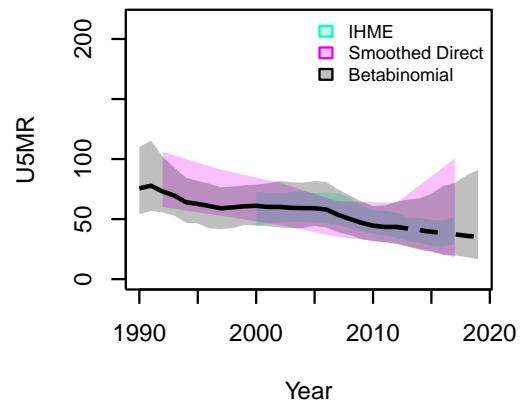
!Karas



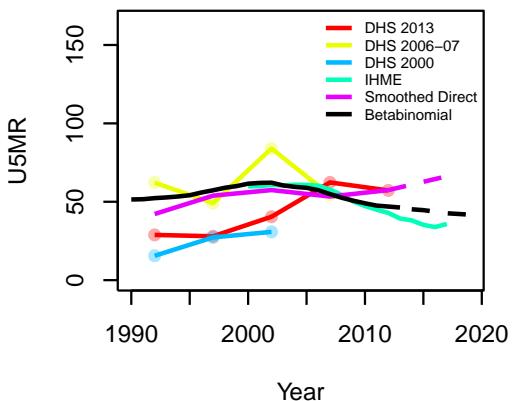
!Karas



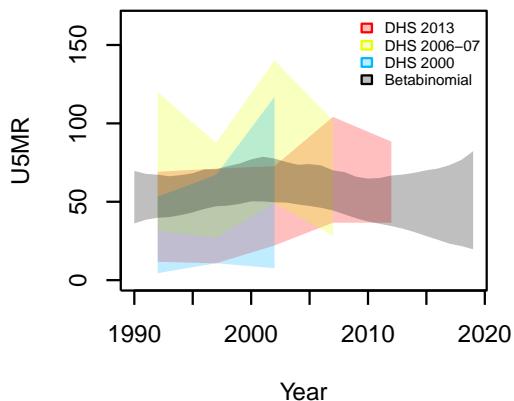
!Karas



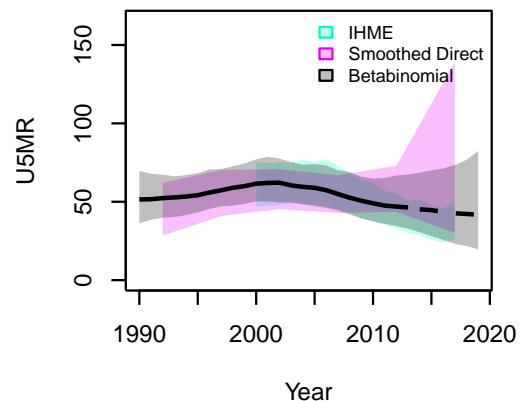
Erongo



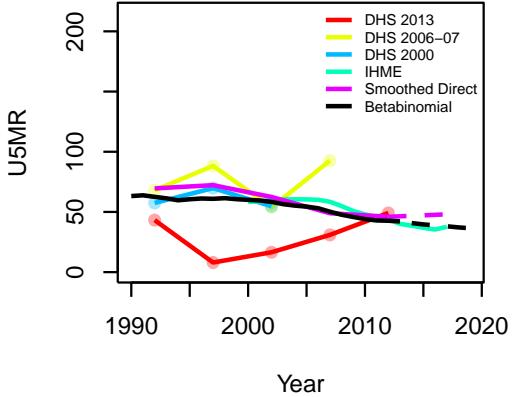
Erongo



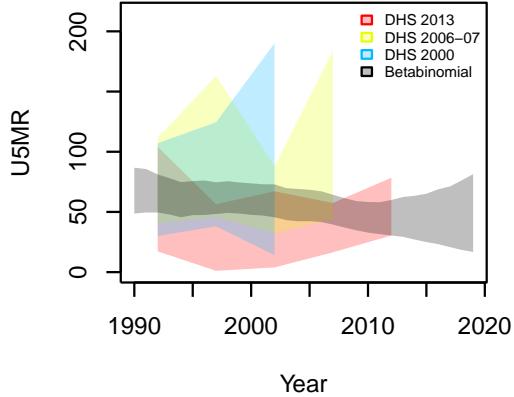
Erongo



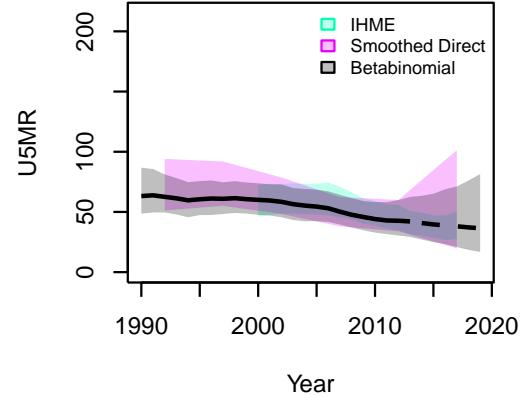
Hardap



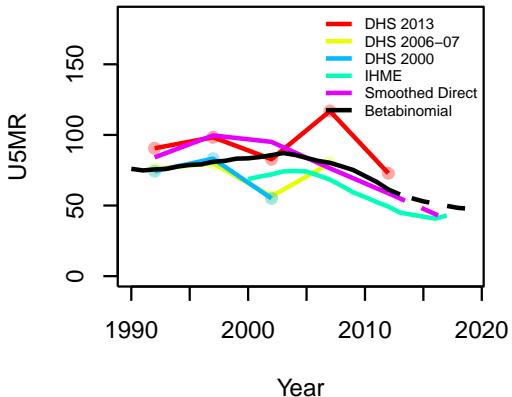
Hardap



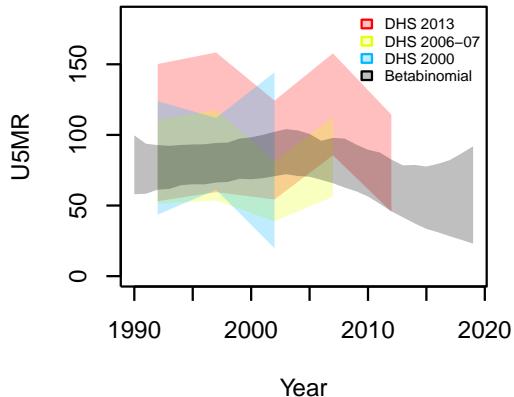
Hardap



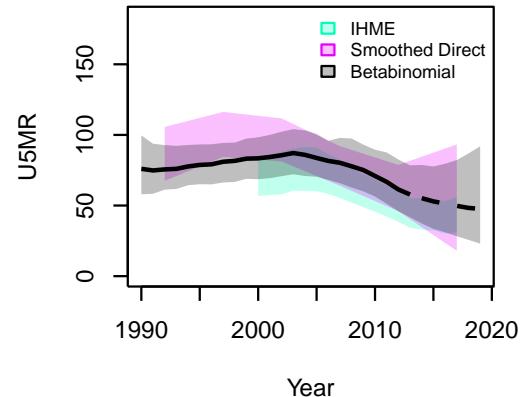
Kavango



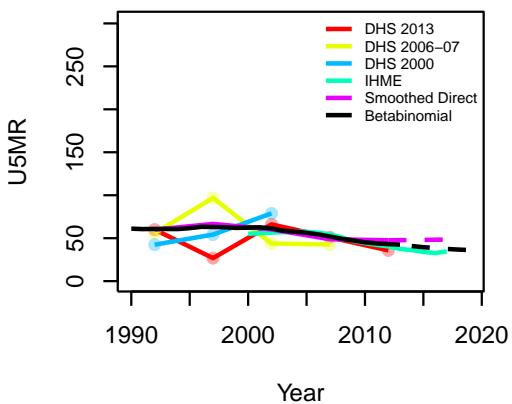
Kavango



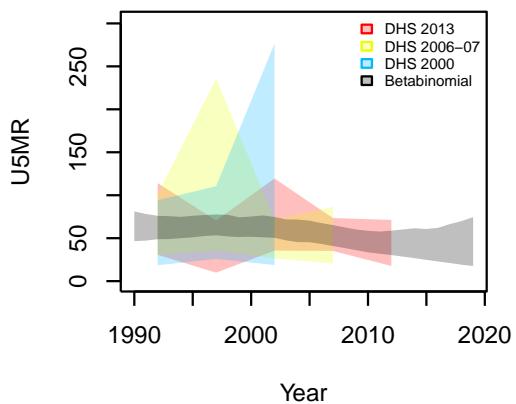
Kavango



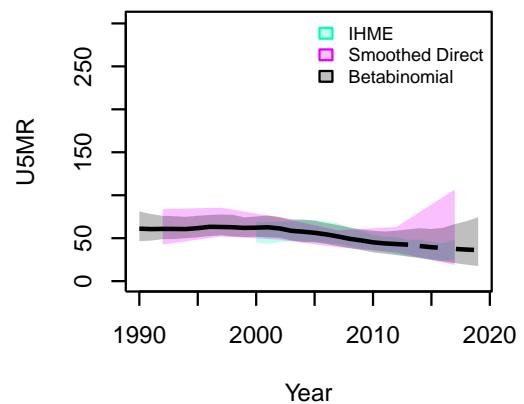
Khomas



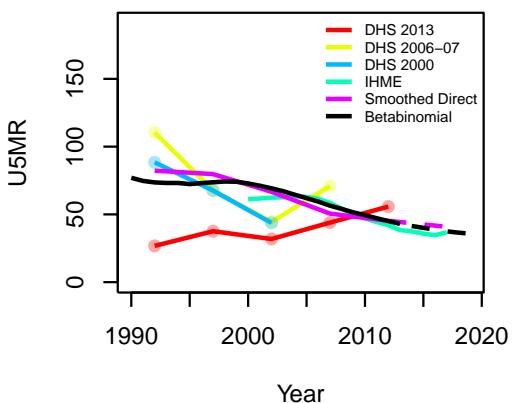
Khomas



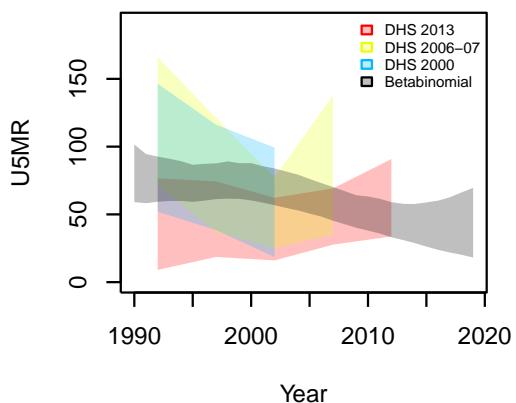
Khomas



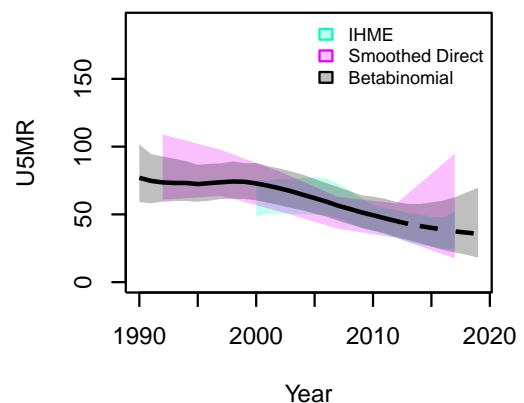
Kunene



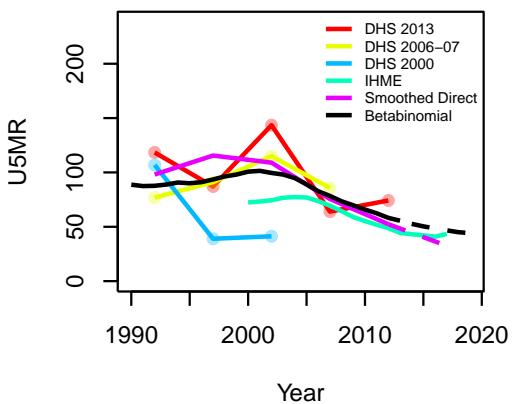
Kunene



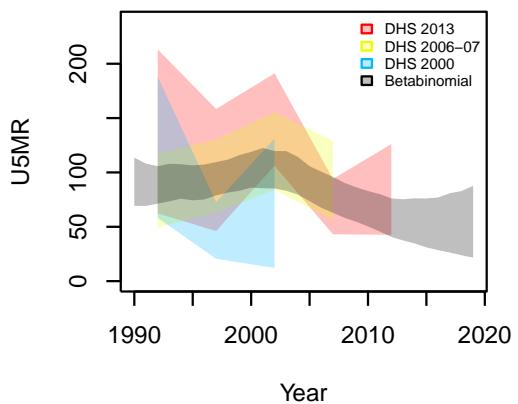
Kunene



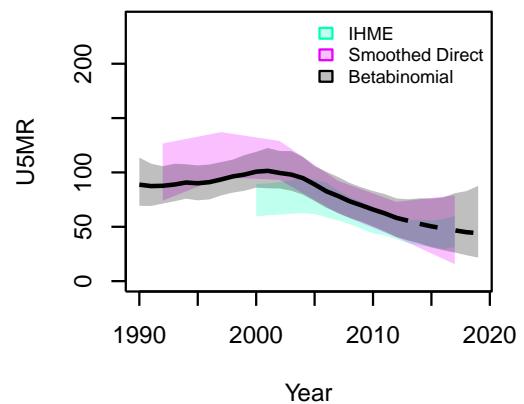
Ohangwena



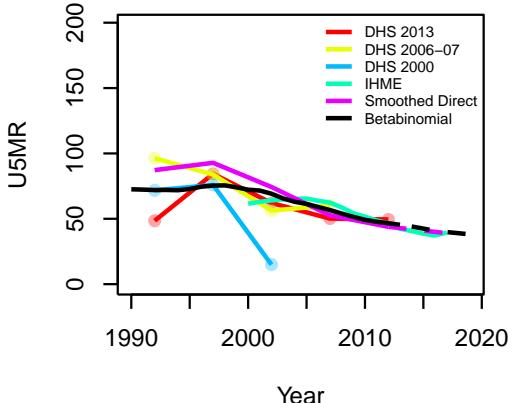
Ohangwena



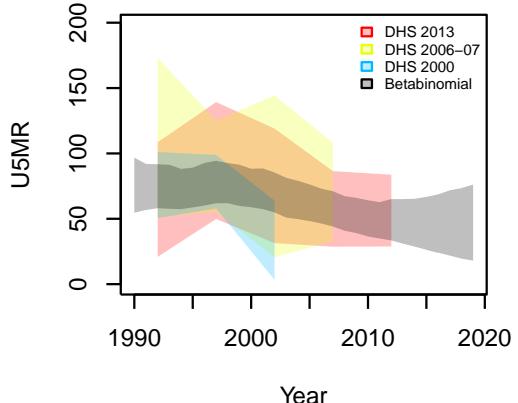
Ohangwena



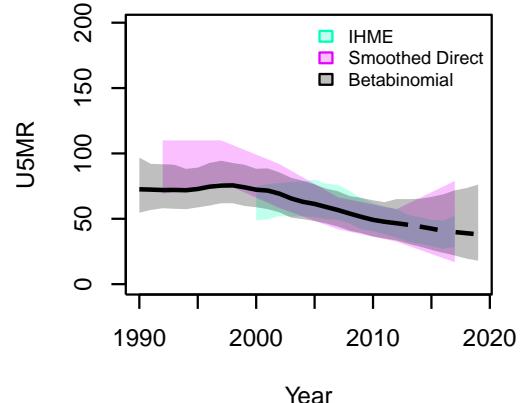
Omaheke

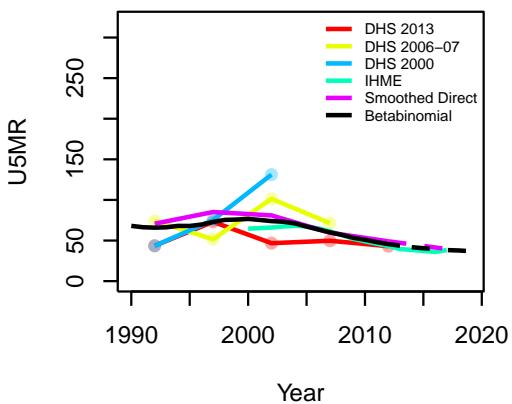
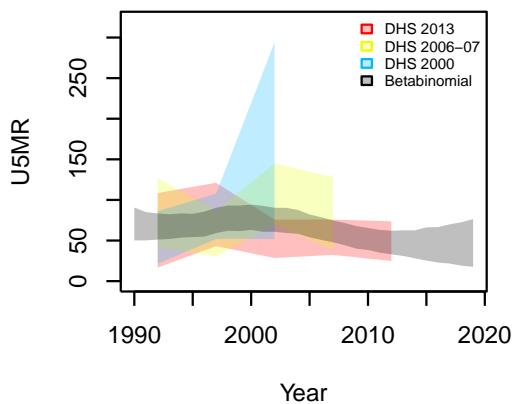
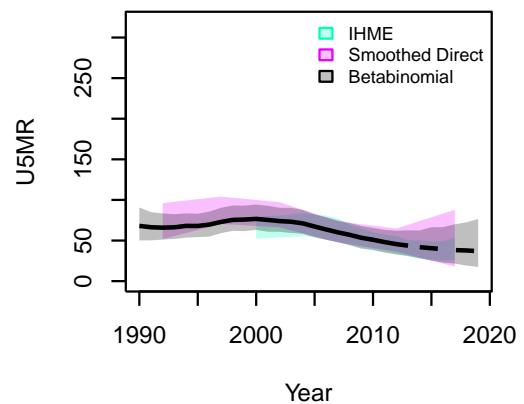
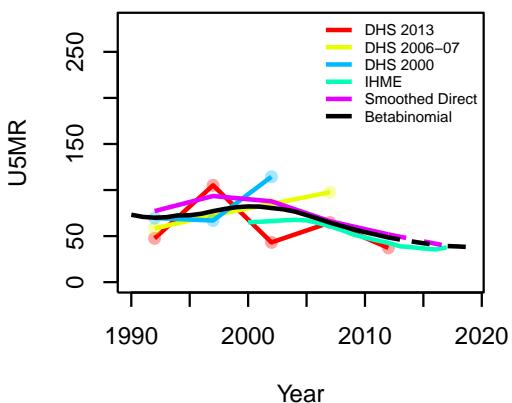
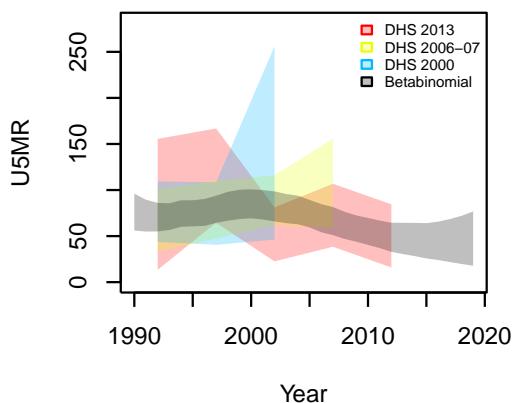
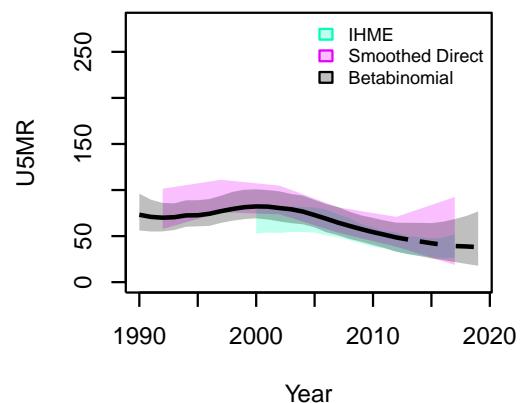


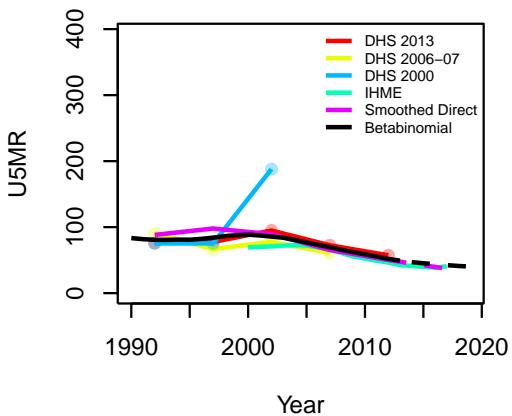
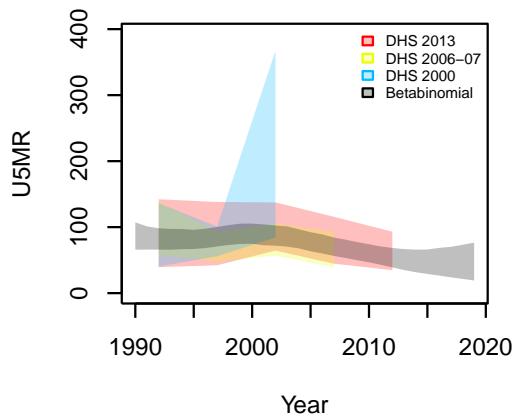
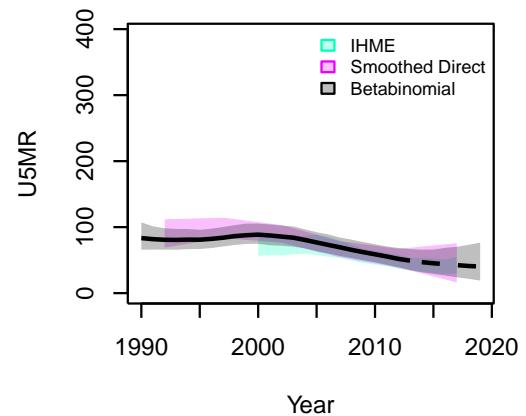
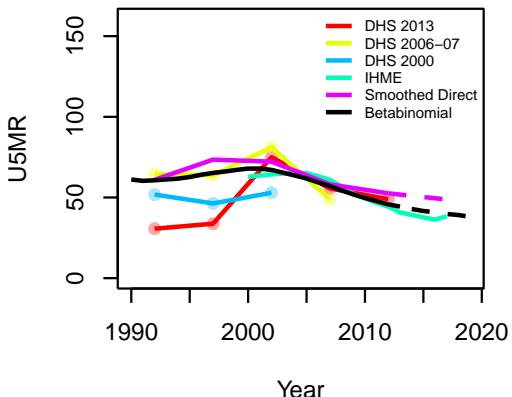
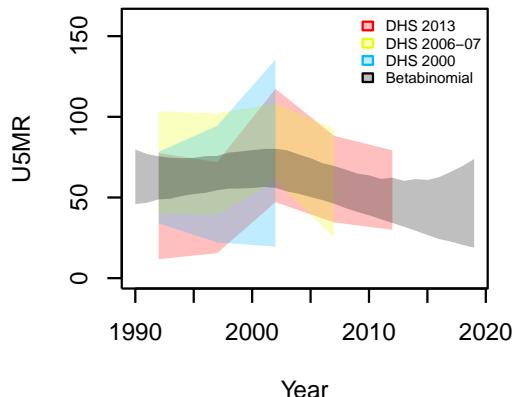
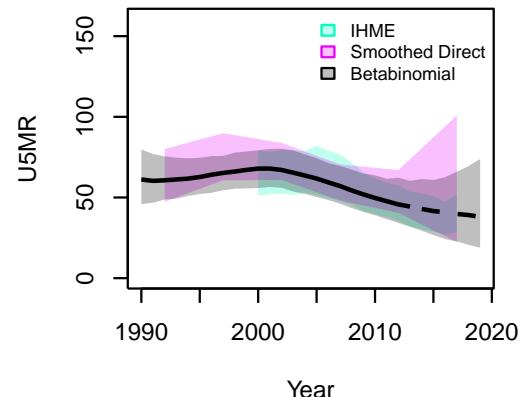
Omaheke



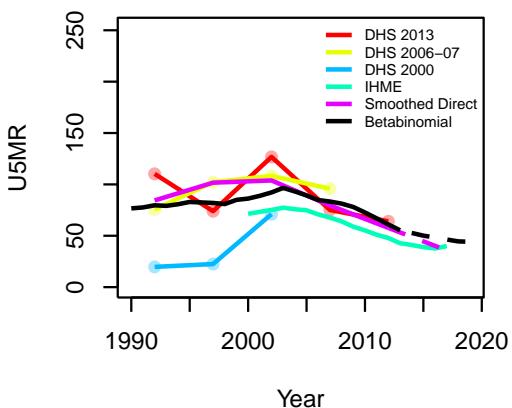
Omaheke



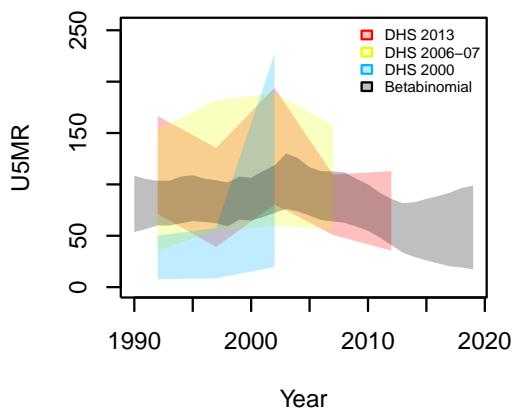
Omusati**Omusati****Omusati****Oshana****Oshana****Oshana**

Oshikoto**Oshikoto****Oshikoto****Otjozondjupa****Otjozondjupa****Otjozondjupa**

Zambezi



Zambezi



Zambezi

