

Modelling Medieval Masonry Construction: taxa-specific and habitat-contingent Bayesian techniques for the interpretation of radiocarbon data from Mortar-Entrapped Relict Limekiln Fuels

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Electronic Supplementary Material 2 (ESM2) - Theoretical Study 2 (TS2)

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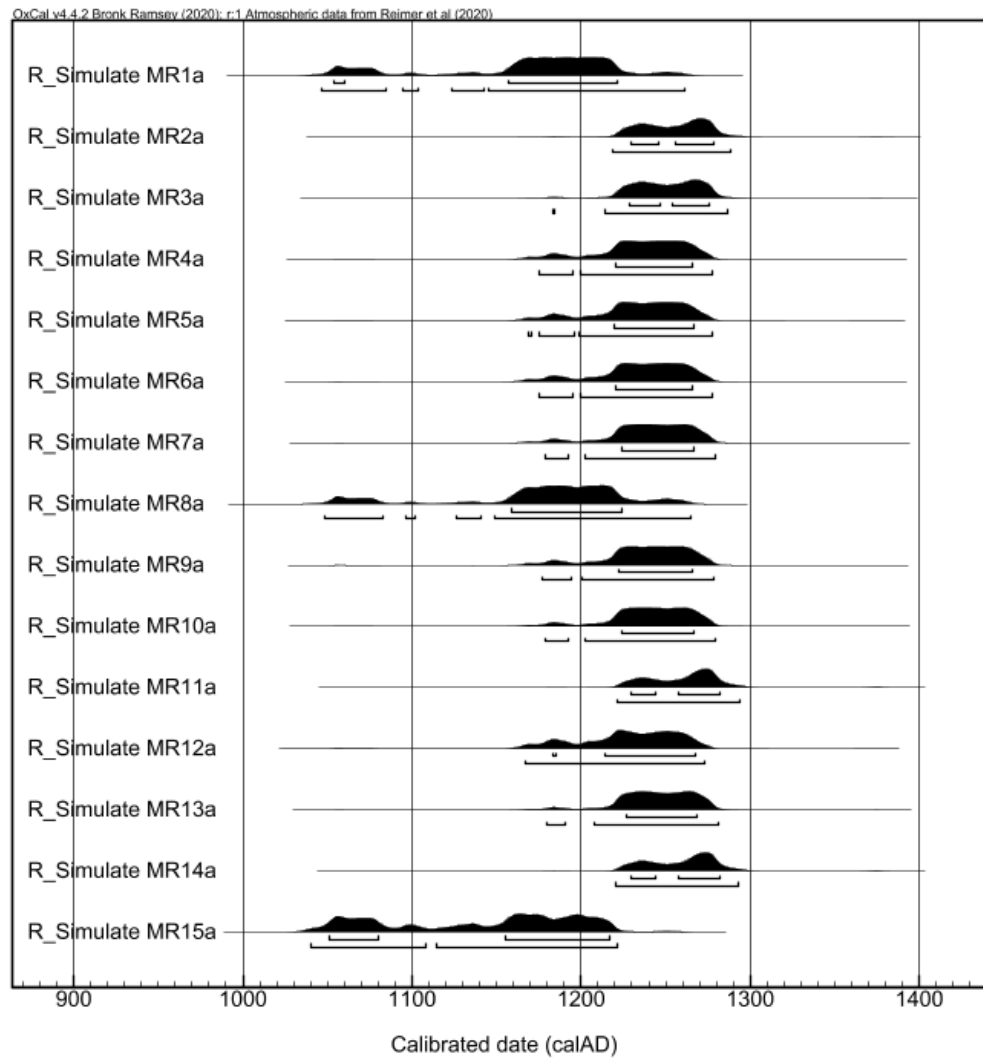
2.1.1 – Dataset MR1a (15 dates; 700 BP $\pm$ 35; 10 years IA; Intcal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MR1a", 700-10*ln(rand()), 35);  
R_Simulate("MR2a", 700-10*ln(rand()), 35);  
R_Simulate("MR3a", 700-10*ln(rand()), 35);  
R_Simulate("MR4a", 700-10*ln(rand()), 35);  
R_Simulate("MR5a", 700-10*ln(rand()), 35);  
R_Simulate("MR6a", 700-10*ln(rand()), 35);  
R_Simulate("MR7a", 700-10*ln(rand()), 35);  
R_Simulate("MR8a", 700-10*ln(rand()), 35);  
R_Simulate("MR9a", 700-10*ln(rand()), 35);  
R_Simulate("MR10a", 700-10*ln(rand()), 35);  
R_Simulate("MR11a", 700-10*ln(rand()), 35);  
R_Simulate("MR12a", 700-10*ln(rand()), 35);  
R_Simulate("MR13a", 700-10*ln(rand()), 35);  
R_Simulate("MR14a", 700-10*ln(rand()), 35);  
R_Simulate("MR15a", 700-10*ln(rand()), 35);
```

2.1.2 - Dataset MR1a; Run 1; Table of Simulated Dates

Name: TS2 MR1a R1	Unmodelled (BC/AD)						
	from	to	%		from	to	%
R_Simulate MR1a	1054	1221	68.26895		1046	1261	95.44997
R_Simulate MR2a	1229	1278	68.26895		1218	1288	95.44997
R_Simulate MR3a	1228	1275	68.26895		1183	1286	95.44997
R_Simulate MR4a	1220	1266	68.26895		1175	1278	95.44997
R_Simulate MR5a	1219	1266	68.26895		1168	1277	95.44997
R_Simulate MR6a	1220	1266	68.26895		1175	1277	95.44997
R_Simulate MR7a	1224	1266	68.26895		1178	1279	95.44997
R_Simulate MR8a	1158	1223	68.26895		1048	1265	95.44997
R_Simulate MR9a	1222	1265	68.26895		1177	1278	95.44997
R_Simulate MR10a	1224	1266	68.26895		1178	1279	95.44997
R_Simulate MR11a	1230	1282	68.26895		1221	1293	95.44997
R_Simulate MR12a	1183	1267	68.26895		1167	1273	95.44997
R_Simulate MR13a	1226	1268	68.26895		1179	1281	95.44997
R_Simulate MR14a	1230	1281	68.26895		1220	1293	95.44997
R_Simulate MR15a	1051	1216	68.26895		1040	1221	95.44997

2.1.3 - Dataset MR1a; Run 1; Simulated Dates; Multiple Plot



2.1.4 - Dataset MR1a; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1a R1")
  {
    Date(Prior("latest","MR11a.prior"));
    Date(Prior("earliest","MR15a.prior"));
    Difference("TS2 MR1a R1 Range", "latest", "earliest");
  };
};
```

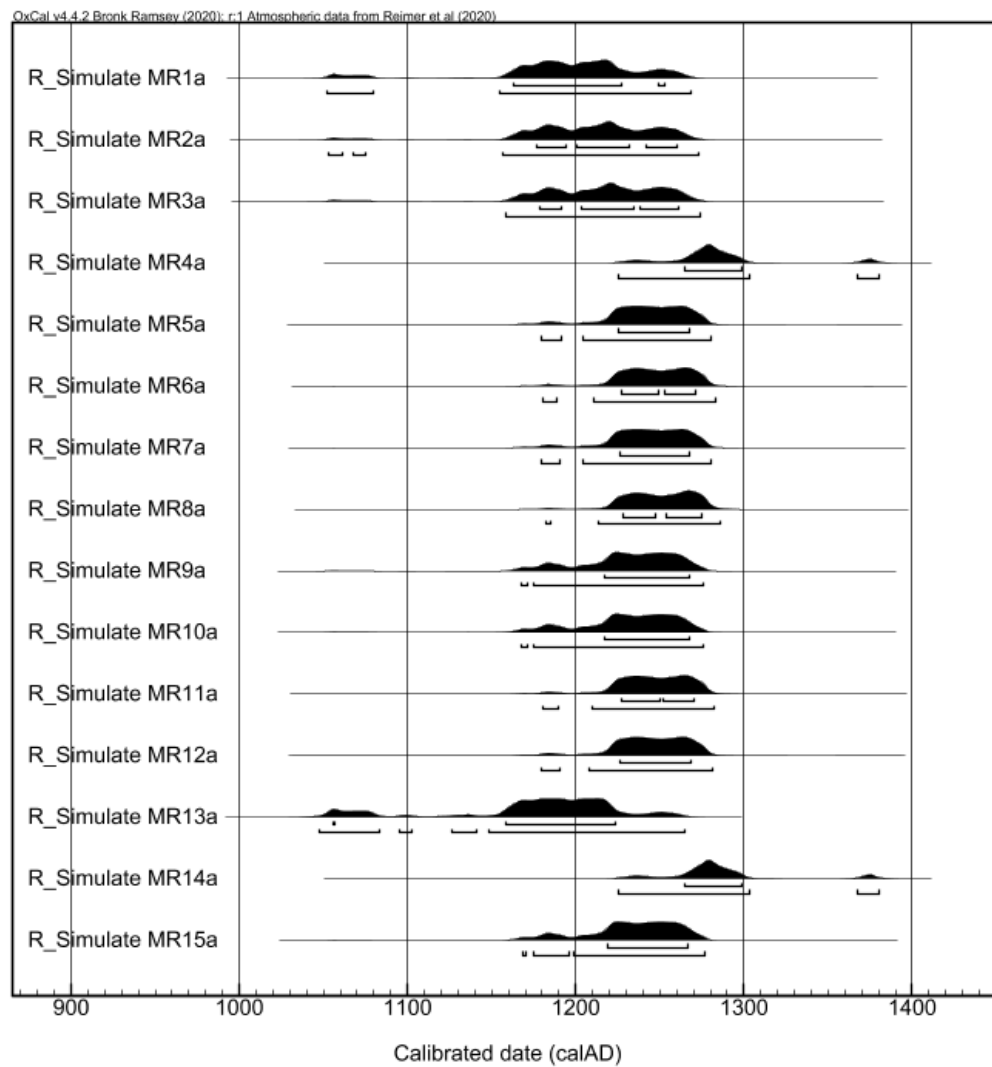
2.1.5 - Dataset MR1a; Run 1; Dataset Range; Results Table

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1a R1						
Prior latest	1230	1282	68.26895	1221	1293	95.44997
Prior earliest	1051	1216	68.26895	1040	1221	95.44997
Difference TS2 MR1a R1 Range	45	214	68.26895	19	229	95.44997

2.1.6 Dataset MR1a; Run 2; Table of Simulated Dates

Name: TS2 R2 MR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1a	1163	1252	68.26895	1051	1268	95.44997
R_Simulate MR2a	1176	1260	68.26895	1053	1273	95.44997
R_Simulate MR3a	1178	1261	68.26895	1158	1273	95.44997
R_Simulate MR4a	1264	1298	68.26895	1225	1380	95.44997
R_Simulate MR5a	1225	1267	68.26895	1179	1280	95.44997
R_Simulate MR6a	1227	1271	68.26895	1180	1283	95.44997
R_Simulate MR7a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate MR8a	1228	1275	68.26895	1182	1286	95.44997
R_Simulate MR9a	1217	1267	68.26895	1168	1275	95.44997
R_Simulate MR10a	1217	1267	68.26895	1168	1275	95.44997
R_Simulate MR11a	1226	1270	68.26895	1180	1282	95.44997
R_Simulate MR12a	1226	1268	68.26895	1179	1281	95.44997
R_Simulate MR13a	1055	1223	68.26895	1047	1264	95.44997
R_Simulate MR14a	1264	1298	68.26895	1225	1380	95.44997
R_Simulate MR15a	1218	1266	68.26895	1168	1276	95.44997

2.1.7 - Dataset MR1a; Run 2; Simulated Dates; Multiple Plot



2.1.8 - Dataset MR1a; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1a R2")
  {
    Date(Prior("latest","MR4a.prior"));
    Date(Prior("earliest","MR13a.prior"));
    Difference("TS2 MR1a R2 Range", "latest", "earliest");
  };
};
```

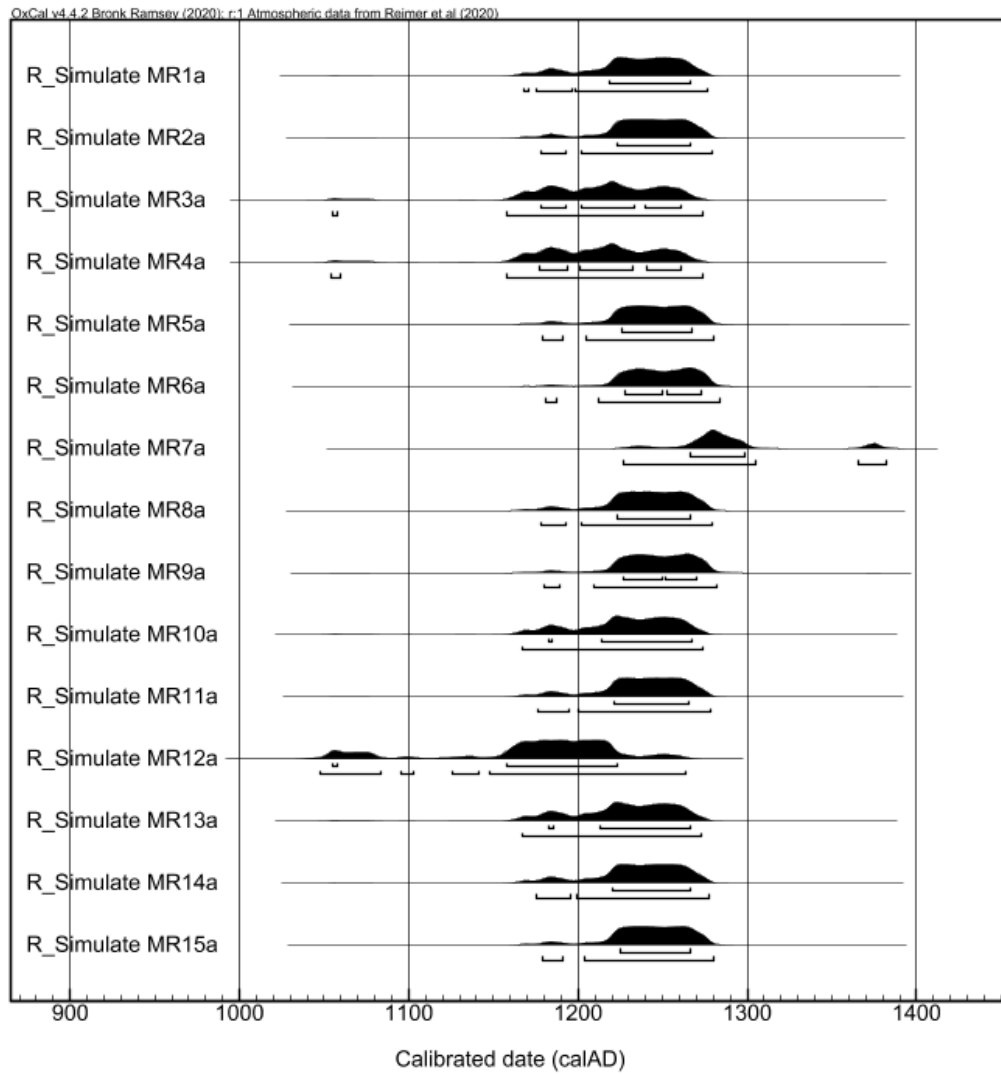
2.1.9 - Dataset MR1a; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1a R2						
Prior latest	1264	1298	68.26895	1225	1380	95.44997
Prior earliest	1055	1223	68.26895	1047	1264	95.44997
Difference TS2 MR1a R2 Range	31	214	68.26895	10	236	95.44997

2.1.10 - Dataset MR1a; Run 3; Table of Simulated Dates

Name: TS2 R3 Mr1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1a	1218	1266	68.26895	1168	1276	95.44997
R_Simulate MR2a	1223	1266	68.26895	1178	1279	95.44997
R_Simulate MR3a	1178	1260	68.26895	1054	1273	95.44997
R_Simulate MR4a	1177	1260	68.26895	1054	1273	95.44997
R_Simulate MR5a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate MR6a	1227	1272	68.26895	1181	1283	95.44997
R_Simulate MR7a	1266	1298	68.26895	1226	1382	95.44997
R_Simulate MR8a	1223	1266	68.26895	1178	1279	95.44997
R_Simulate MR9a	1226	1270	68.26895	1180	1282	95.44997
R_Simulate MR10a	1183	1267	68.26895	1167	1273	95.44997
R_Simulate MR11a	1221	1265	68.26895	1176	1278	95.44997
R_Simulate MR12a	1055	1222	68.26895	1047	1263	95.44997
R_Simulate MR13a	1182	1266	68.26895	1167	1273	95.44997
R_Simulate MR14a	1220	1266	68.26895	1175	1277	95.44997
R_Simulate MR15a	1224	1266	68.26895	1179	1279	95.44997

2.1.11 - Dataset MR1a; Run 3; Simulated Dates; Multiple Plot



2.1.12 - Dataset MR1a; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1a R3")
  {
    Date(Prior("latest","MR7a.prior"));
    Date(Prior("earliest","MR12a.prior"));
    Difference("TS2 MR1a R3 Range", "latest", "earliest");
  };
};
```

2.1.13 - Dataset MR1a; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1a R3						
Prior latest	1266	1298	68.26895	1226	1382	95.44997
Prior earliest	1055	1222	68.26895	1047	1263	95.44997
Difference TS2 MR1a R3 Range	42	222	68.26895	13	240	95.44997

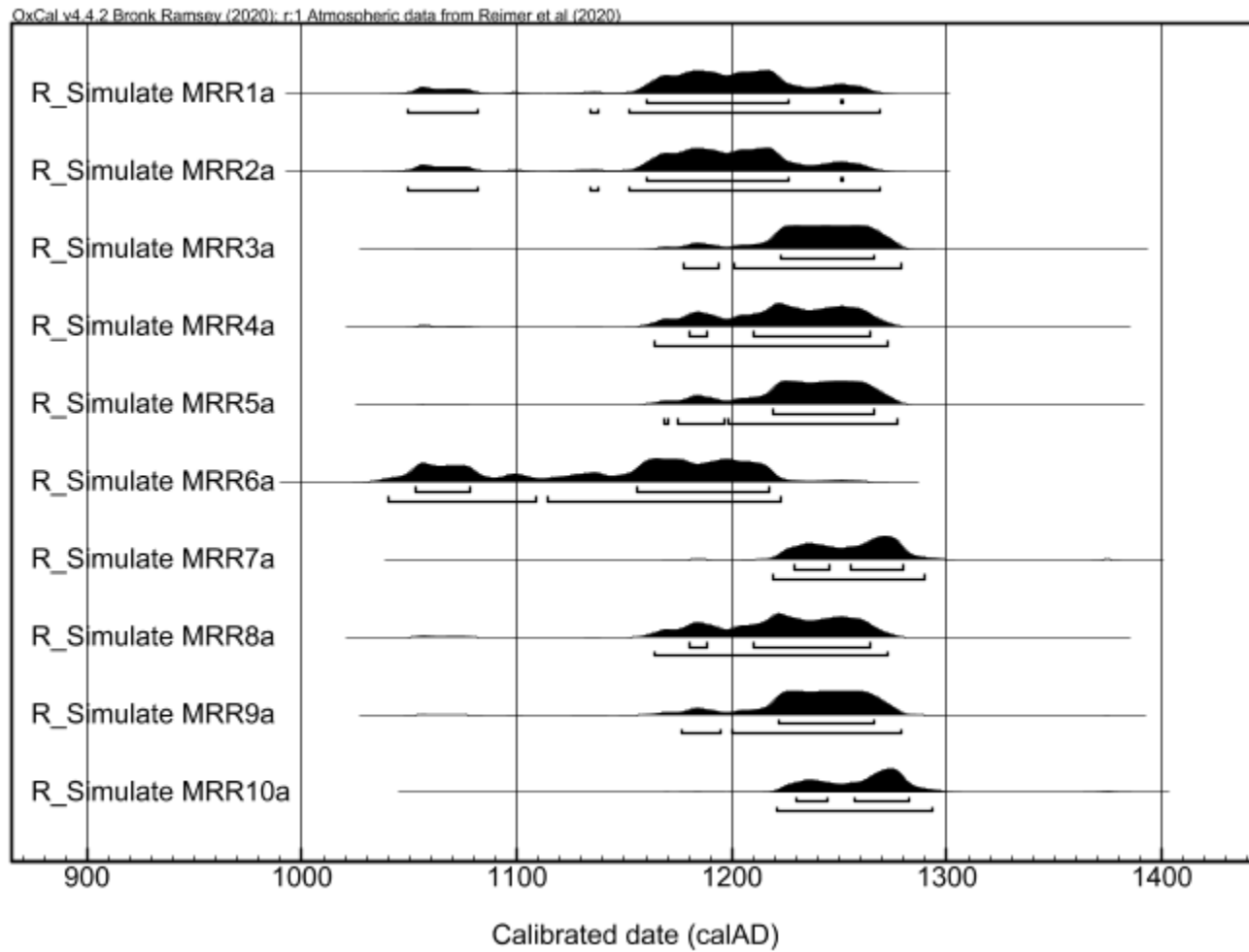
2.2.1 – Dataset MRR1a (10 dates; 700 BP $\pm$ 35; 10 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRR1a", 700-10*ln(rand()), 35);  
R_Simulate("MRR2a", 700-10*ln(rand()), 35);  
R_Simulate("MRR3a", 700-10*ln(rand()), 35);  
R_Simulate("MRR4a", 700-10*ln(rand()), 35);  
R_Simulate("MRR5a", 700-10*ln(rand()), 35);  
R_Simulate("MRR6a", 700-10*ln(rand()), 35);  
R_Simulate("MRR7a", 700-10*ln(rand()), 35);  
R_Simulate("MRR8a", 700-10*ln(rand()), 35);  
R_Simulate("MRR9a", 700-10*ln(rand()), 35);  
R_Simulate("MRR10a", 700-10*ln(rand()), 35);
```

2.2.2 – Dataset MRR1a; Run 1; Simulated Dates; Table of Distributions

<u>Name: TS2 R1 MRR1a</u>	<u>Unmodelled (BC/AD)</u>					
	<u>from</u>	<u>to</u>	<u>%</u>	<u>from</u>	<u>to</u>	<u>%</u>
<u>R Simulate MRR1a</u>	<u>1160</u>	<u>1251</u>	<u>68.26895</u>	<u>1049</u>	<u>1268</u>	<u>95.44997</u>
<u>R Simulate MRR2a</u>	<u>1160</u>	<u>1251</u>	<u>68.26895</u>	<u>1049</u>	<u>1268</u>	<u>95.44997</u>
<u>R Simulate MRR3a</u>	<u>1222</u>	<u>1266</u>	<u>68.26895</u>	<u>1177</u>	<u>1278</u>	<u>95.44997</u>
<u>R Simulate MRR4a</u>	<u>1180</u>	<u>1264</u>	<u>68.26895</u>	<u>1163</u>	<u>1272</u>	<u>95.44997</u>
<u>R Simulate MRR5a</u>	<u>1219</u>	<u>1266</u>	<u>68.26895</u>	<u>1168</u>	<u>1276</u>	<u>95.44997</u>
<u>R Simulate MRR6a</u>	<u>1052</u>	<u>1216</u>	<u>68.26895</u>	<u>1040</u>	<u>1222</u>	<u>95.44997</u>
<u>R Simulate MRR7a</u>	<u>1229</u>	<u>1279</u>	<u>68.26895</u>	<u>1219</u>	<u>1289</u>	<u>95.44997</u>
<u>R Simulate MRR8a</u>	<u>1180</u>	<u>1264</u>	<u>68.26895</u>	<u>1163</u>	<u>1272</u>	<u>95.44997</u>
<u>R Simulate MRR9a</u>	<u>1221</u>	<u>1265</u>	<u>68.26895</u>	<u>1176</u>	<u>1278</u>	<u>95.44997</u>
<u>R Simulate MRR10a</u>	<u>1230</u>	<u>1282</u>	<u>68.26895</u>	<u>1221</u>	<u>1293</u>	<u>95.44997</u>

2.2.3 – Dataset MRR1a; Run 1; Simulated Dates; Multiple Plot



2.2.4 - Dataset MRR1a; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1a R1")
  {
    Date(Prior("latest","MRR10a.prior"));
    Date(Prior("earliest","MRR6a.prior"));
    Difference("TS2 MRR1a R1 Range", "latest", "earliest");
  };
};
```

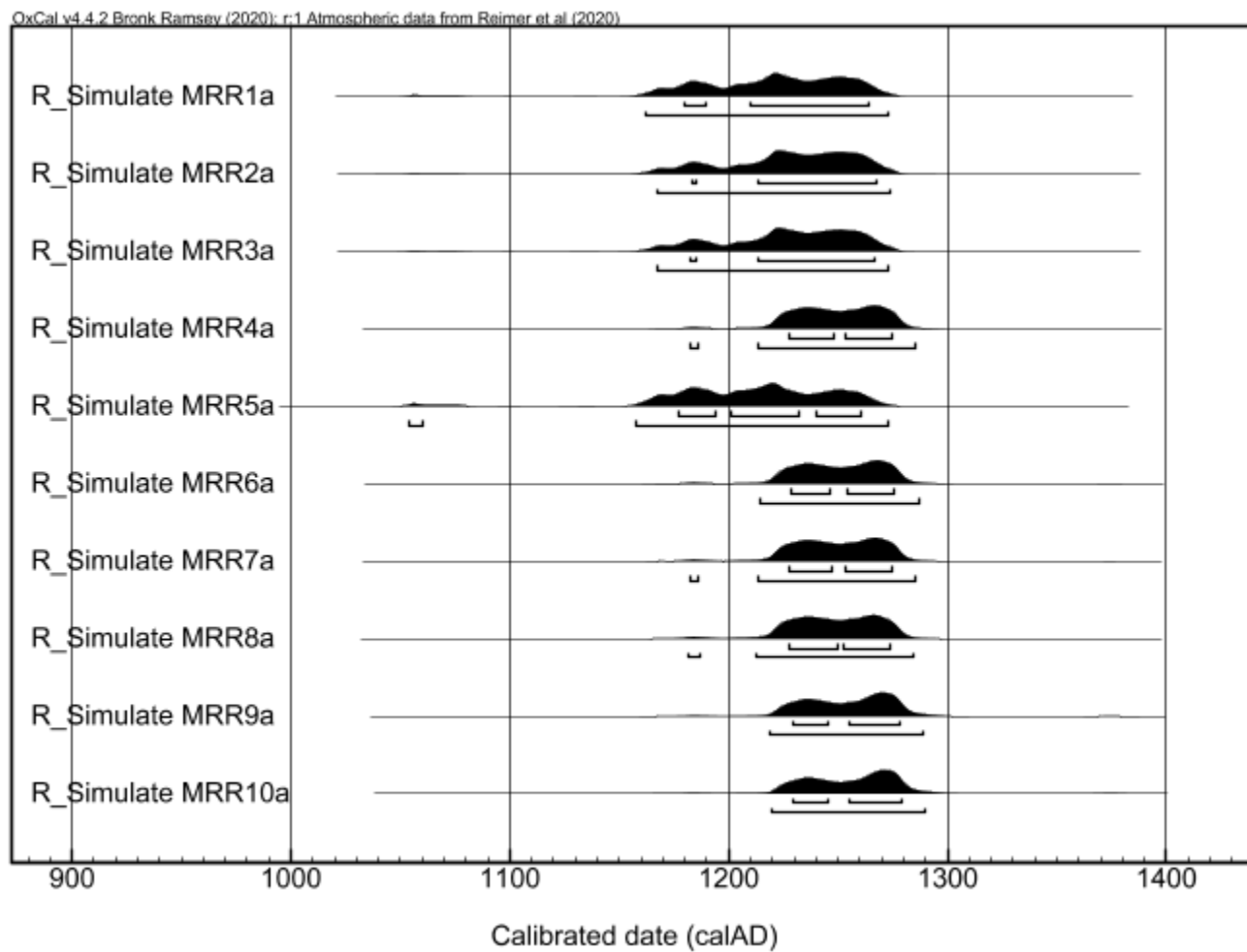
2.2.5 - Dataset MRR1a; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1a R1						
Prior latest	1230	1282	68.26895	1221	1293	95.44997
Prior earliest	1052	1216	68.26895	1040	1222	95.44997
Difference TS2 MRR1a R1 Range	40	212	68.26895	17	228	95.44997

2.2.6 – Dataset MRR1a; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1a	1180	1263	68.26895	1162	1272	95.44997
R_Simulate MRR2a	1183	1267	68.26895	1167	1273	95.44997
R_Simulate MRR3a	1182	1266	68.26895	1167	1273	95.44997
R_Simulate MRR4a	1227	1274	68.26895	1182	1284	95.44997
R_Simulate MRR5a	1176	1260	68.26895	1053	1273	95.44997
R_Simulate MRR6a	1228	1275	68.26895	1214	1287	95.44997
R_Simulate MRR7a	1228	1274	68.26895	1182	1285	95.44997
R_Simulate MRR8a	1227	1273	68.26895	1181	1284	95.44997
R_Simulate MRR9a	1229	1278	68.26895	1218	1288	95.44997
R_Simulate MRR10a	1229	1279	68.26895	1219	1289	95.44997

2.2.7 – Dataset MRR1a; Run 2; Simulated Dates; Multiple Plot



2.2.8 - Dataset MRR1a; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1a R2")
  {
    Date(Prior("latest","MRR10a.prior"));
    Date(Prior("earliest","MRR5a.prior"));
    Difference("TS2 MRR1a R2 Range", "latest", "earliest");
  };
};
```

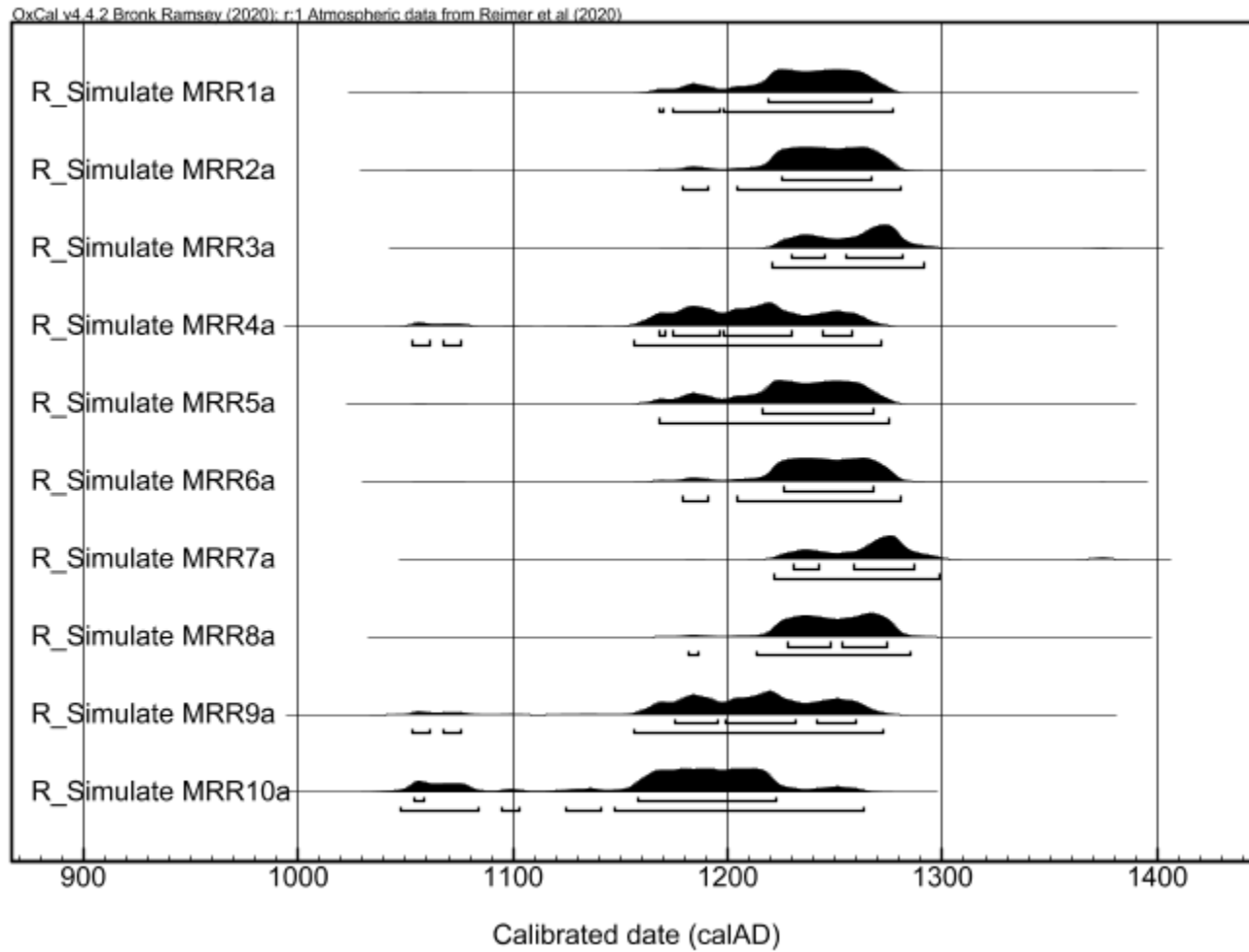
2.2.9 - Dataset MRR1a; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1a R2						
Prior latest	1229	1279	68.26895	1219	1289	95.44997
Prior earliest	1176	1260	68.26895	1053	1273	95.44997
Difference TS2 MRR1a R2 Range	1	82	68.26895	-42	207	95.44997

2.2.10 – Dataset MRR1a; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1a	1218	1266	68.26895	1168	1276	95.44997
R_Simulate MRR2a	1225	1267	68.26895	1179	1280	95.44997
R_Simulate MRR3a	1229	1281	68.26895	1220	1291	95.44997
R_Simulate MRR4a	1168	1257	68.26895	1053	1271	95.44997
R_Simulate MRR5a	1216	1267	68.26895	1168	1275	95.44997
R_Simulate MRR6a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate MRR7a	1231	1286	68.26895	1221	1298	95.44997
R_Simulate MRR8a	1227	1274	68.26895	1182	1284	95.44997
R_Simulate MRR9a	1175	1259	68.26895	1053	1272	95.44997
R_Simulate MRR10a	1054	1222	68.26895	1047	1263	95.44997

2.2.11 – Dataset MRR1a; Run 3; Simulated Dates; Multiple Plot



2.2.12 - Dataset MRR1a; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1a R3")
  {
    Date(Prior("latest","MRR7a.prior"));
    Date(Prior("earliest","MRR10a.prior"));
    Difference("TS2 MRR1a R3 Range", "latest", "earliest");
  };
};
```

2.2.13 - Dataset MRR1a; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1a R3						
Prior latest	1231	1286	68.26895	1221	1298	95.44997
Prior earliest	1054	1222	68.26895	1047	1263	95.44997
Difference TS2 MRR1a R3 Range	21	118	68.26895	4	227	95.44997

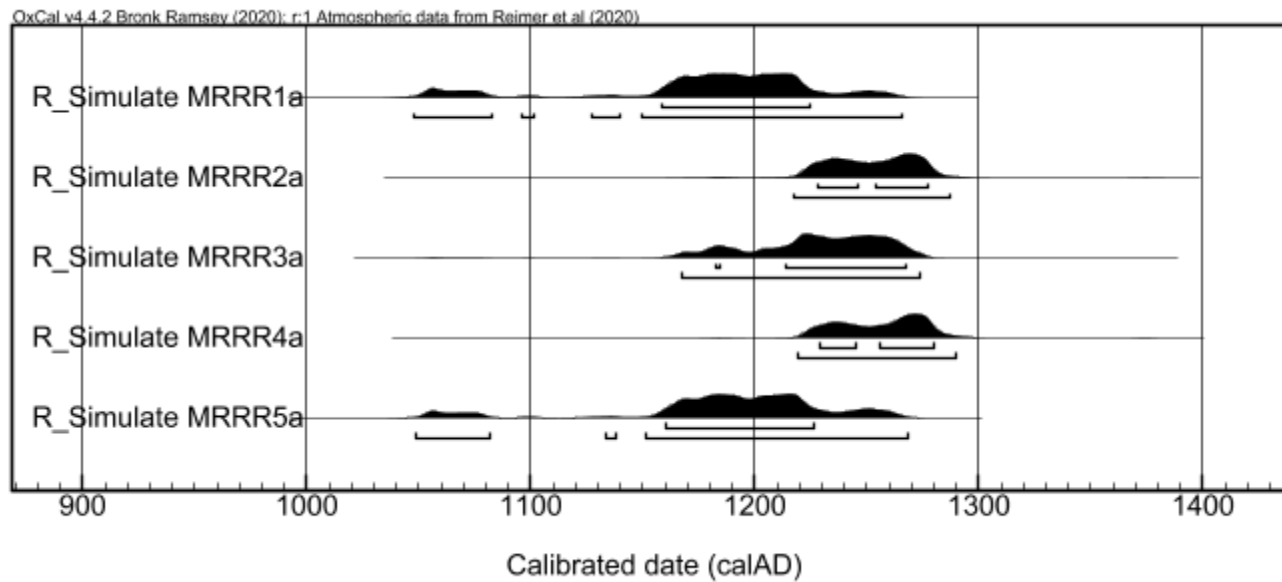
2.3.1 – Dataset MRRR1a (5 dates; 700 BP $\pm$ 35; 10 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRRR1a", 700-10*ln(rand()), 35);  
R_Simulate("MRRR2a", 700-10*ln(rand()), 35);  
R_Simulate("MRRR3a", 700-10*ln(rand()), 35);  
R_Simulate("MRRR4a", 700-10*ln(rand()), 35);  
R_Simulate("MRRR5a", 700-10*ln(rand()), 35);
```

2.3.2 – Dataset MRRR1a; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRRR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1a	<u>1158</u>	<u>1224</u>	<u>68.26895</u>	<u>1048</u>	<u>1265</u>	<u>95.44997</u>
R_Simulate MRRR2a	<u>1228</u>	<u>1277</u>	<u>68.26895</u>	<u>1217</u>	<u>1287</u>	<u>95.44997</u>
R_Simulate MRRR3a	<u>1183</u>	<u>1267</u>	<u>68.26895</u>	<u>1167</u>	<u>1273</u>	<u>95.44997</u>
R_Simulate MRRR4a	<u>1229</u>	<u>1279</u>	<u>68.26895</u>	<u>1219</u>	<u>1290</u>	<u>95.44997</u>
R_Simulate MRRR5a	<u>1160</u>	<u>1226</u>	<u>68.26895</u>	<u>1049</u>	<u>1268</u>	<u>95.44997</u>

2.3.3 – Dataset MRRR1a; Run 1; Simulated Dates; Multiple Plot



2.3.4 - Dataset MRRR1a; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1a R1")
  {
    Date(Prior("latest","MRRR4a.prior"));
    Date(Prior("earliest","MRRR1a.prior"));
    Difference("TS2 MRRR1a R1 Range", "latest", "earliest");
  };
};
```

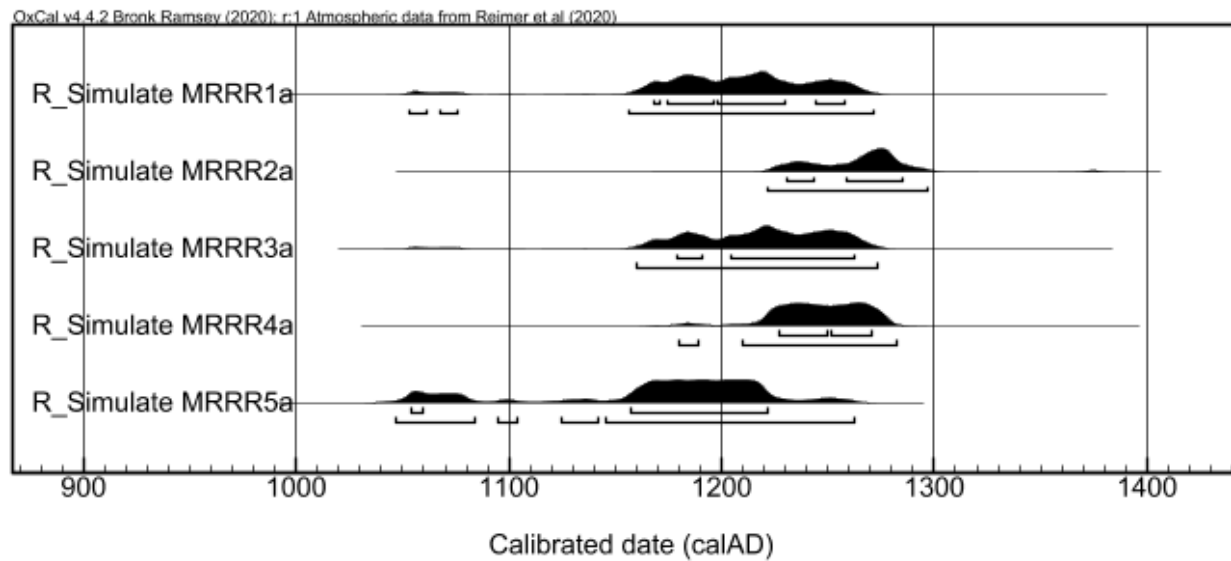
2.3.5 - Dataset MRRR1a; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1a R1						
Prior latest	1229	1279	68.26895	1219	1290	95.44997
Prior earliest	1158	1224	68.26895	1048	1265	95.44997
Difference TS2 MRRR1a R1 Range	16	105	68.26895	-20	221	95.44997

2.3.6– Dataset MRRR1a; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRRR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1a	1168	1257	68.26895	1053	1271	95.44997
R_Simulate MRRR2a	1230	1285	68.26895	1221	1297	95.44997
R_Simulate MRRR3a	1179	1262	68.26895	1160	1272	95.44997
R_Simulate MRRR4a	1226	1270	68.26895	1180	1282	95.44997
R_Simulate MRRR5a	1054	1222	68.26895	1046	1262	95.44997

2.3.7 – Dataset MRRR1a; Run 2; Simulated Dates; Multiple Plot



2.3.8 - Dataset MRRR1a; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1a R2")
  {
    Date(Prior("latest","MRRR2a.prior"));
    Date(Prior("earliest","MRRR5a.prior"));
    Difference("TS2 MRRR1a R2 Range", "latest", "earliest");
  };
};
```

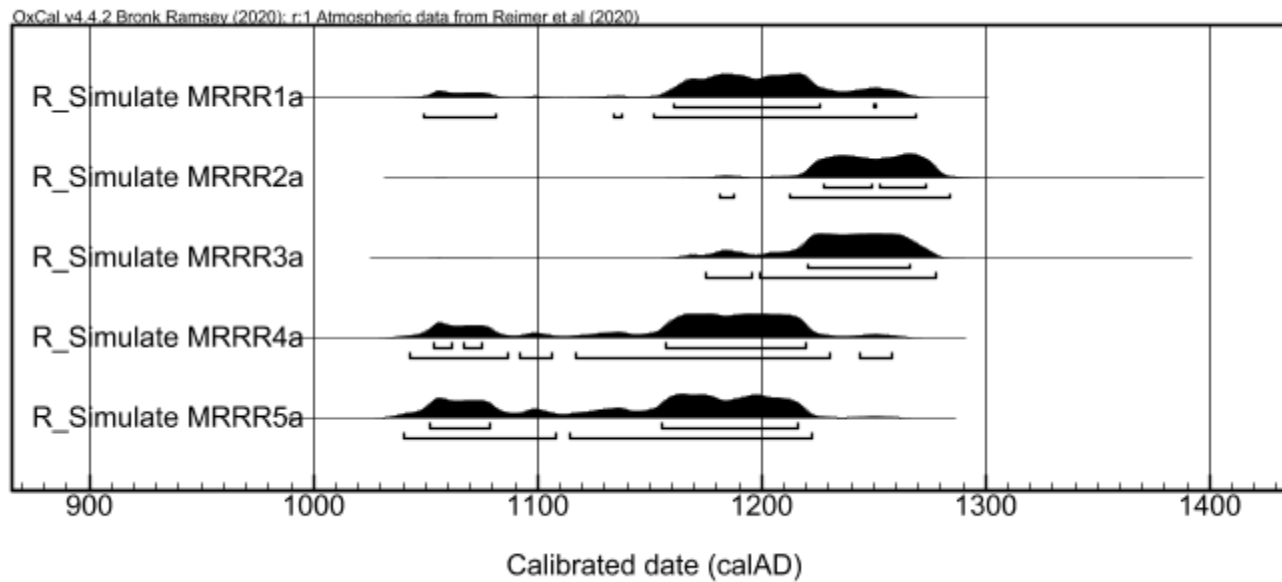
2.3.9 - Dataset MRRR1a; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1a R2						
Prior latest	1230	1285	68.26895	1221	1297	95.44997
Prior earliest	1054	1222	68.26895	1046	1262	95.44997
Difference TS2 MRRR1a R2 Range	19	119	68.26895	5	227	95.44997

2.3.10 – Dataset MRRR1a; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRRR1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1a	1160	1251	68.26895	1049	1268	95.44997
R_Simulate MRRR2a	1227	1273	68.26895	1181	1284	95.44997
R_Simulate MRRR3a	1220	1266	68.26895	1175	1278	95.44997
R_Simulate MRRR4a	1053	1220	68.26895	1043	1258	95.44997
R_Simulate MRRR5a	1052	1216	68.26895	1040	1222	95.44997

2.3.11 – Dataset MRRR1a; Run 3; Simulated Dates; Multiple Plot



2.3.12 - Dataset MRRR1a; Run 3; Dataset Range; Model Script

```
,
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1a R3")
  {
    Date(Prior("latest","MRRR2a.prior"));
    Date(Prior("earliest","MRRR5a.prior"));
    Difference("TS2 MRRR1a R3 Range", "latest", "earliest");
  };
};
```

2.3.13 - Dataset MRRR1a; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1a R3						
Prior latest	1227	1273	68.26895	1181	1284	95.44997
Prior earliest	1052	1216	68.26895	1040	1222	95.44997
Difference TS2 MRRR1a R3 Range	28	197	68.26895	8	220	95.44997

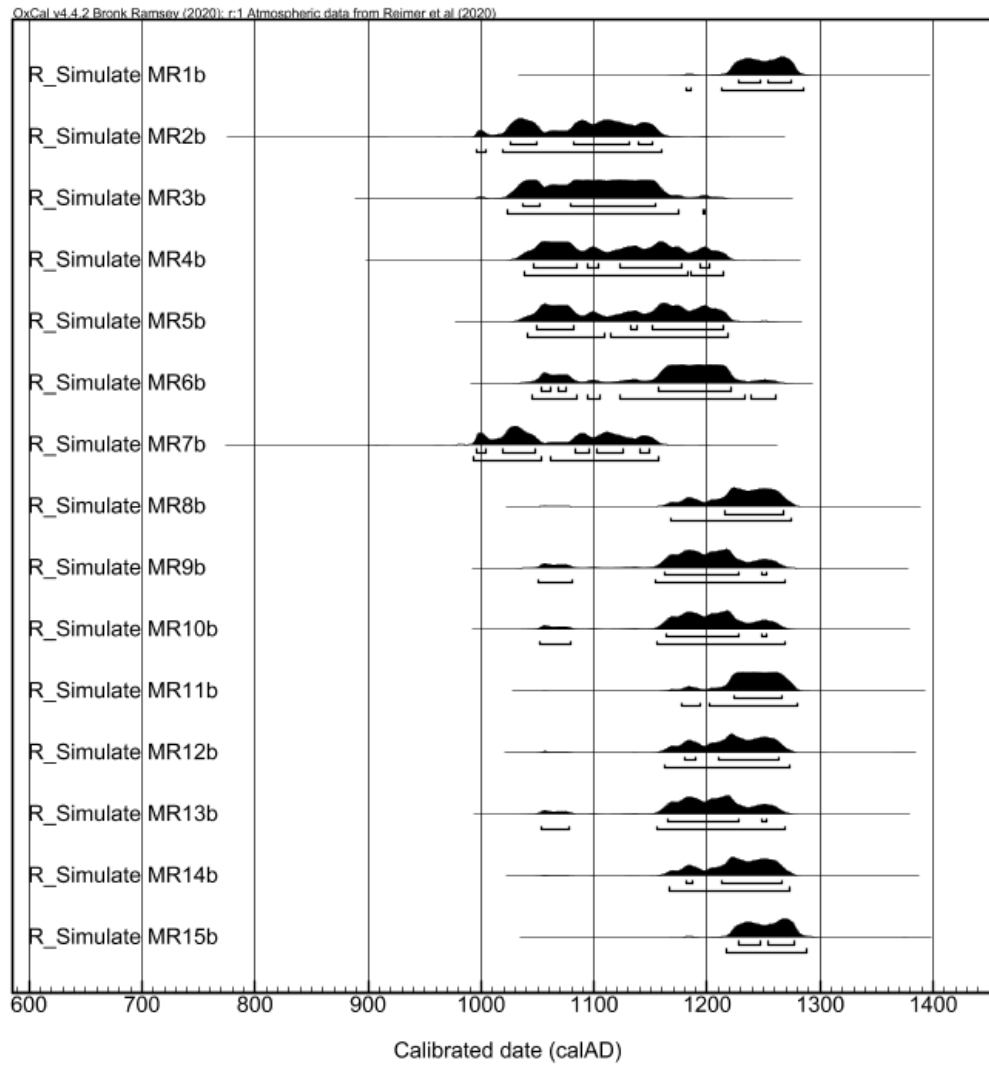
2.4.1 – Dataset MR1b (15 dates; 700 BP $\pm$ 35; 50 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MR1b", 700-50*ln(rand()), 35);  
R_Simulate("MR2b", 700-50*ln(rand()), 35);  
R_Simulate("MR3b", 700-50*ln(rand()), 35);  
R_Simulate("MR4b", 700-50*ln(rand()), 35);  
R_Simulate("MR5b", 700-50*ln(rand()), 35);  
R_Simulate("MR6b", 700-50*ln(rand()), 35);  
R_Simulate("MR7b", 700-50*ln(rand()), 35);  
R_Simulate("MR8b", 700-50*ln(rand()), 35);  
R_Simulate("MR9b", 700-50*ln(rand()), 35);  
R_Simulate("MR10b", 700-50*ln(rand()), 35);  
R_Simulate("MR11b", 700-50*ln(rand()), 35);  
R_Simulate("MR12b", 700-50*ln(rand()), 35);  
R_Simulate("MR13b", 700-50*ln(rand()), 35);  
R_Simulate("MR14b", 700-50*ln(rand()), 35);  
R_Simulate("MR15b", 700-50*ln(rand()), 35);
```

2.4.2 – Dataset MR1b; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R Simulate MR1b	<u>1227</u>	<u>1274</u>	<u>68.26895</u>	<u>1182</u>	<u>1284</u>	<u>95.44997</u>
R Simulate MR2b	<u>1026</u>	<u>1151</u>	<u>68.26895</u>	<u>995</u>	<u>1159</u>	<u>95.44997</u>
R Simulate MR3b	<u>1036</u>	<u>1154</u>	<u>68.26895</u>	<u>1023</u>	<u>1198</u>	<u>95.44997</u>
R Simulate MR4b	<u>1046</u>	<u>1201</u>	<u>68.26895</u>	<u>1038</u>	<u>1213</u>	<u>95.44997</u>
R Simulate MR5b	<u>1049</u>	<u>1214</u>	<u>68.26895</u>	<u>1040</u>	<u>1219</u>	<u>95.44997</u>
R Simulate MR6b	<u>1053</u>	<u>1221</u>	<u>68.26895</u>	<u>1045</u>	<u>1260</u>	<u>95.44997</u>
R Simulate MR7b	<u>995</u>	<u>1149</u>	<u>68.26895</u>	<u>993</u>	<u>1157</u>	<u>95.44997</u>
R Simulate MR8b	<u>1215</u>	<u>1267</u>	<u>68.26895</u>	<u>1168</u>	<u>1274</u>	<u>95.44997</u>
R Simulate MR9b	<u>1162</u>	<u>1252</u>	<u>68.26895</u>	<u>1051</u>	<u>1268</u>	<u>95.44997</u>
R Simulate MR10b	<u>1164</u>	<u>1252</u>	<u>68.26895</u>	<u>1052</u>	<u>1268</u>	<u>95.44997</u>
R Simulate MR11b	<u>1223</u>	<u>1266</u>	<u>68.26895</u>	<u>1178</u>	<u>1279</u>	<u>95.44997</u>
R Simulate MR12b	<u>1180</u>	<u>1263</u>	<u>68.26895</u>	<u>1162</u>	<u>1272</u>	<u>95.44997</u>
R Simulate MR13b	<u>1165</u>	<u>1253</u>	<u>68.26895</u>	<u>1052</u>	<u>1268</u>	<u>95.44997</u>
R Simulate MR14b	<u>1181</u>	<u>1266</u>	<u>68.26895</u>	<u>1166</u>	<u>1272</u>	<u>95.44997</u>
R Simulate MR15b	<u>1228</u>	<u>1277</u>	<u>68.26895</u>	<u>1216</u>	<u>1287</u>	<u>95.44997</u>

2.4.3 – Dataset MR1b; Run 1; Simulated Dates; Multiple Plot



2.4.4 - Dataset MR1b; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1b R1")
  {
    Date(Prior("latest","MR15b.prior"));
    Date(Prior("earliest","MR7b.prior"));
    Difference("TS2 MR1b R1 Range", "latest", "earliest");
  };
};
```

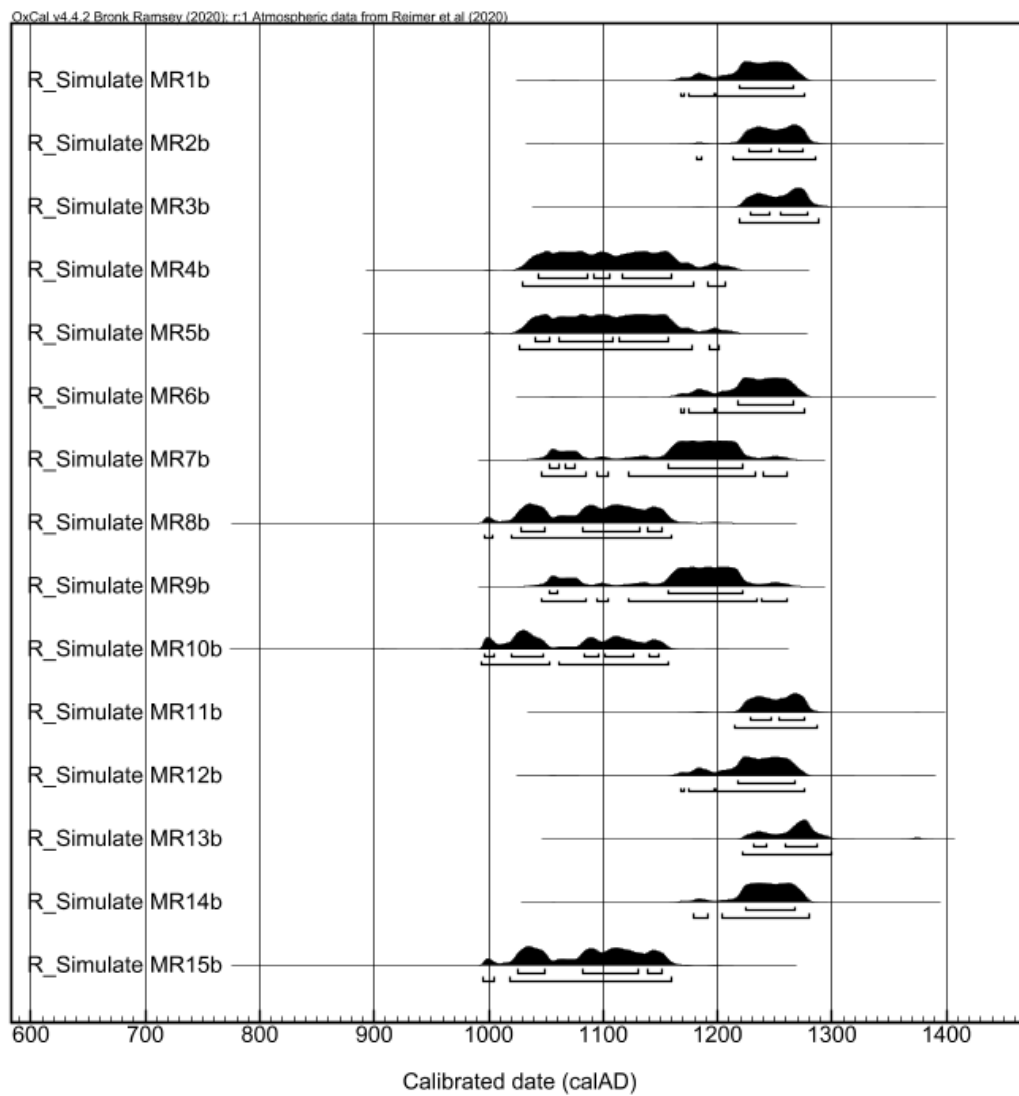
2.4.5 - Dataset MR1b; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1b R1						
Prior latest	1228	1277	68.26895	1216	1287	95.44997
Prior earliest	995	1149	68.26895	993	1157	95.44997
Difference TS2 MR1b R1 Range	113	249	68.26895	83	274	95.44997

2.4.6 – Dataset MR1b; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1b	1218	1266	68.26895	1168	1276	95.44997
R_Simulate MR2b	1228	1275	68.26895	1182	1286	95.44997
R_Simulate MR3b	1229	1278	68.26895	1218	1288	95.44997
R_Simulate MR4b	1043	1159	68.26895	1029	1207	95.44997
R_Simulate MR5b	1040	1156	68.26895	1027	1201	95.44997
R_Simulate MR6b	1218	1266	68.26895	1168	1276	95.44997
R_Simulate MR7b	1053	1221	68.26895	1045	1260	95.44997
R_Simulate MR8b	1028	1151	68.26895	996	1160	95.44997
R_Simulate MR9b	1053	1221	68.26895	1046	1261	95.44997
R_Simulate MR10b	996	1149	68.26895	993	1157	95.44997
R_Simulate MR11b	1228	1276	68.26895	1215	1287	95.44997
R_Simulate MR12b	1217	1267	68.26895	1168	1275	95.44997
R_Simulate MR13b	1231	1287	68.26895	1221	1298	95.44997
R_Simulate MR14b	1225	1267	68.26895	1179	1280	95.44997
R_Simulate MR15b	1026	1151	68.26895	995	1159	95.44997

2.4.7 – Dataset MR1b; Run 2; Simulated Dates; Multiple Plot



2.4.8 - Dataset MR1b; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1b R2")
  {
    Date(Prior("latest","MR13b.prior"));
    Date(Prior("earliest","MR10b.prior"));
    Difference("TS2 MR1b R2 Range", "latest", "earliest");
  };
};
```

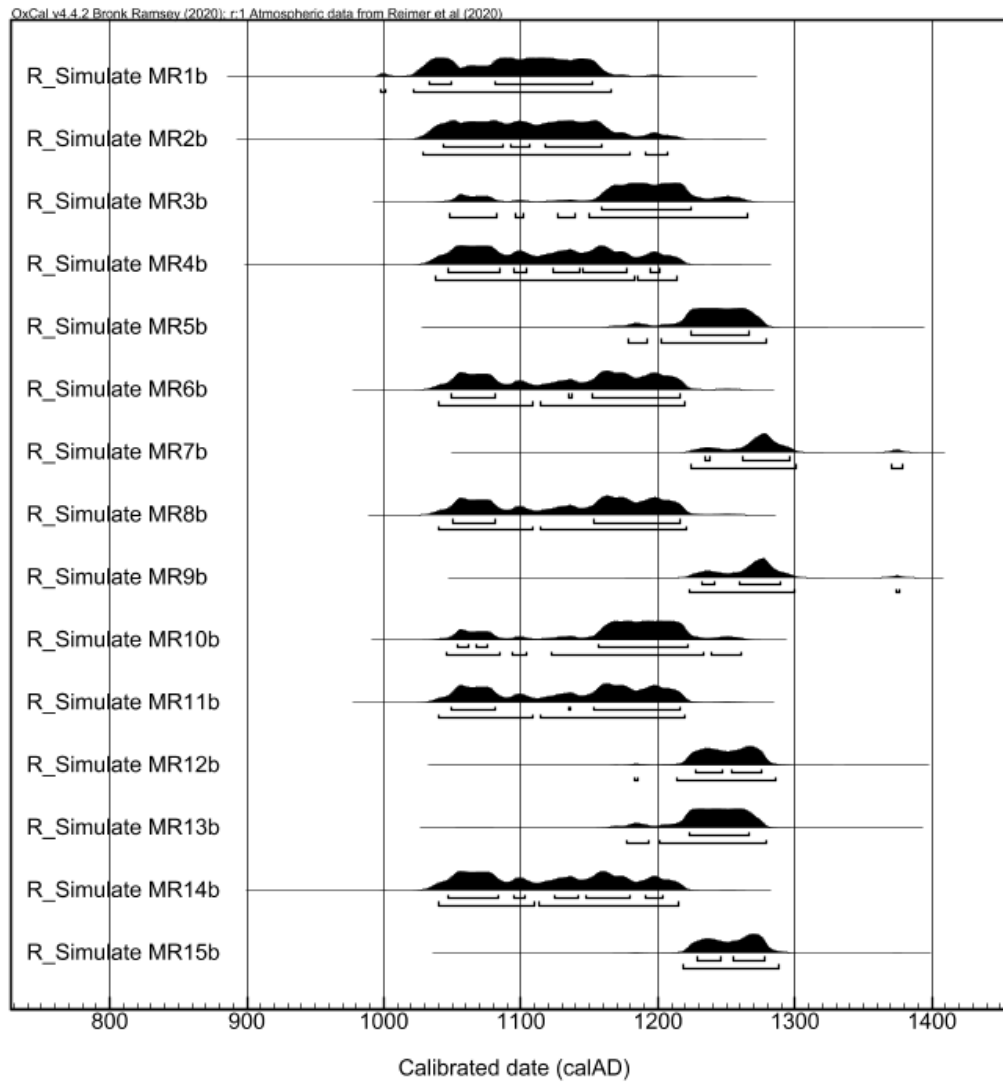
2.4.9 - Dataset MR1b; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1b R2						
Prior latest	1231	1287	68.26895	1221	1298	95.44997
Prior earliest	996	1149	68.26895	993	1157	95.44997
Difference TS2 MR1b R2 Range	123	259	68.26895	89	287	95.44997

2.4.10 – Dataset MR1b; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1b	1033	1152	68.26895	997	1165	95.44997
R_Simulate MR2b	1043	1158	68.26895	1029	1207	95.44997
R_Simulate MR3b	1158	1224	68.26895	1048	1265	95.44997
R_Simulate MR4b	1046	1200	68.26895	1038	1213	95.44997
R_Simulate MR5b	1224	1266	68.26895	1178	1279	95.44997
R_Simulate MR6b	1049	1215	68.26895	1040	1219	95.44997
R_Simulate MR7b	1234	1295	68.26895	1223	1378	95.44997
R_Simulate MR8b	1050	1216	68.26895	1040	1220	95.44997
R_Simulate MR9b	1232	1289	68.26895	1222	1375	95.44997
R_Simulate MR10b	1053	1221	68.26895	1045	1260	95.44997
R_Simulate MR11b	1049	1216	68.26895	1040	1220	95.44997
R_Simulate MR12b	1228	1275	68.26895	1182	1286	95.44997
R_Simulate MR13b	1222	1266	68.26895	1177	1279	95.44997
R_Simulate MR14b	1047	1203	68.26895	1039	1215	95.44997
R_Simulate MR15b	1229	1278	68.26895	1218	1287	95.44997

2.4.11 – Dataset MR1b; Run 3; Simulated Dates; Multiple Plot



2.4.12 - Dataset MR1b; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1b R3")
  {
    Date(Prior("latest","MR7b.prior"));
    Date(Prior("earliest","MR1b.prior"));
    Difference("TS2 MR1b R3 Range", "latest", "earliest");
  };
};
```

2.4.13 - Dataset MR1b; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1b R3						
Prior latest	1234	1295	68.26895	1223	1378	95.44997
Prior earliest	1033	1152	68.26895	997	1165	95.44997
Difference TS2 MR1b R3 Range	121	241	68.26895	74	277	95.44997

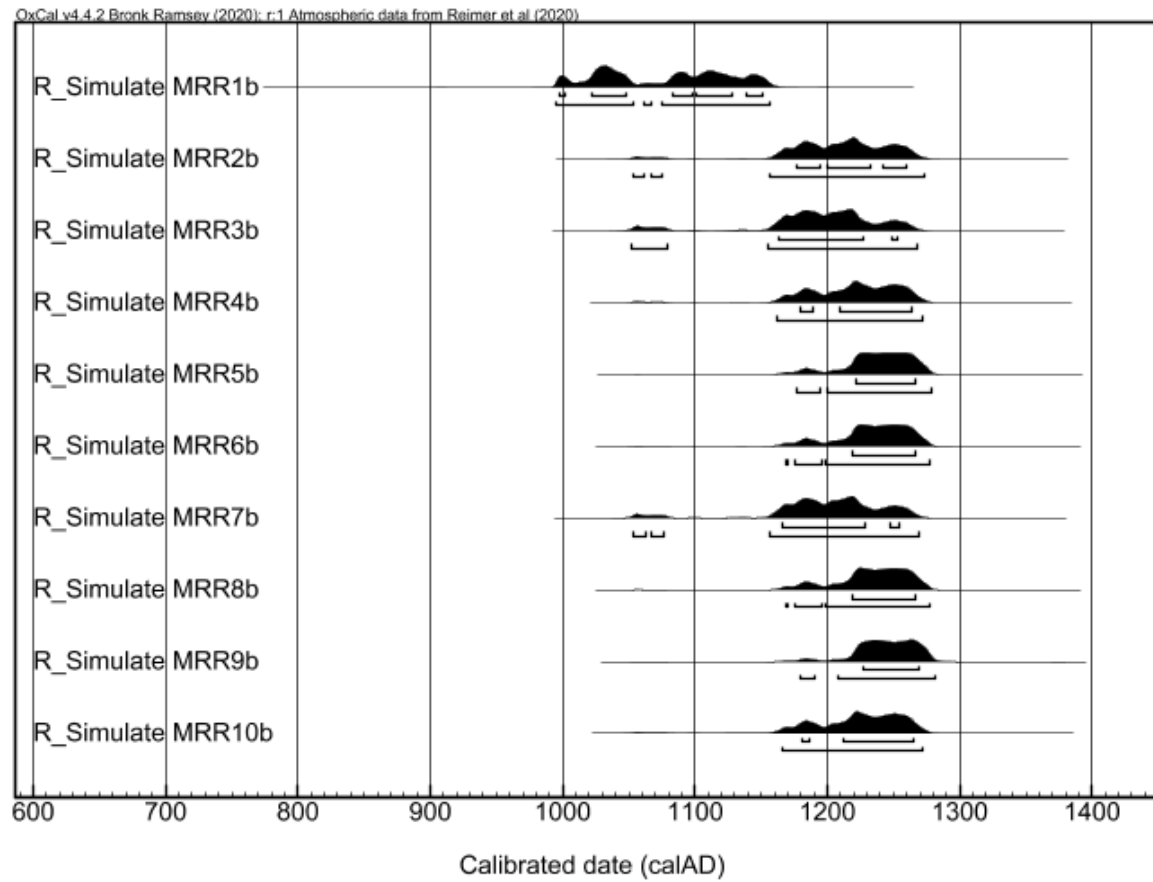
2.5.1 – Dataset MRR1b (10 dates; 700 BP $\pm$ 35; 50 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRR1b", 700-50*ln(rand()), 35);  
R_Simulate("MRR2b", 700-50*ln(rand()), 35);  
R_Simulate("MRR3b", 700-50*ln(rand()), 35);  
R_Simulate("MRR4b", 700-50*ln(rand()), 35);  
R_Simulate("MRR5b", 700-50*ln(rand()), 35);  
R_Simulate("MRR6b", 700-50*ln(rand()), 35);  
R_Simulate("MRR7b", 700-50*ln(rand()), 35);  
R_Simulate("MRR8b", 700-50*ln(rand()), 35);  
R_Simulate("MRR9b", 700-50*ln(rand()), 35);  
R_Simulate("MRR10b", 700-50*ln(rand()), 35);
```

2.5.2 – Dataset MRR1b; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1b	997	1150	68.26895	994	1157	95.44997
R_Simulate MRR2b	1176	1260	68.26895	1053	1273	95.44997
R_Simulate MRR3b	1163	1252	68.26895	1051	1268	95.44997
R_Simulate MRR4b	1180	1263	68.26895	1162	1272	95.44997
R_Simulate MRR5b	1221	1265	68.26895	1176	1278	95.44997
R_Simulate MRR6b	1219	1266	68.26895	1168	1277	95.44997
R_Simulate MRR7b	1166	1253	68.26895	1053	1269	95.44997
R_Simulate MRR8b	1219	1266	68.26895	1168	1276	95.44997
R_Simulate MRR9b	1226	1268	68.26895	1179	1281	95.44997
R_Simulate MRR10b	1181	1265	68.26895	1165	1272	95.44997

2.5.3 – Dataset MRR1b; Run 1; Simulated Dates; Multiple Plot



2.5.4 - Dataset MRR1b; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1b R1")
  {
    Date(Prior("latest","MRR9b.prior"));
    Date(Prior("earliest","MRR1b.prior"));
    Difference("TS2 MRR1b R1 Range", "latest", "earliest");
  };
};
```

2.5.5 - Dataset MRR1b; Run 1; Dataset Range; Table of Results

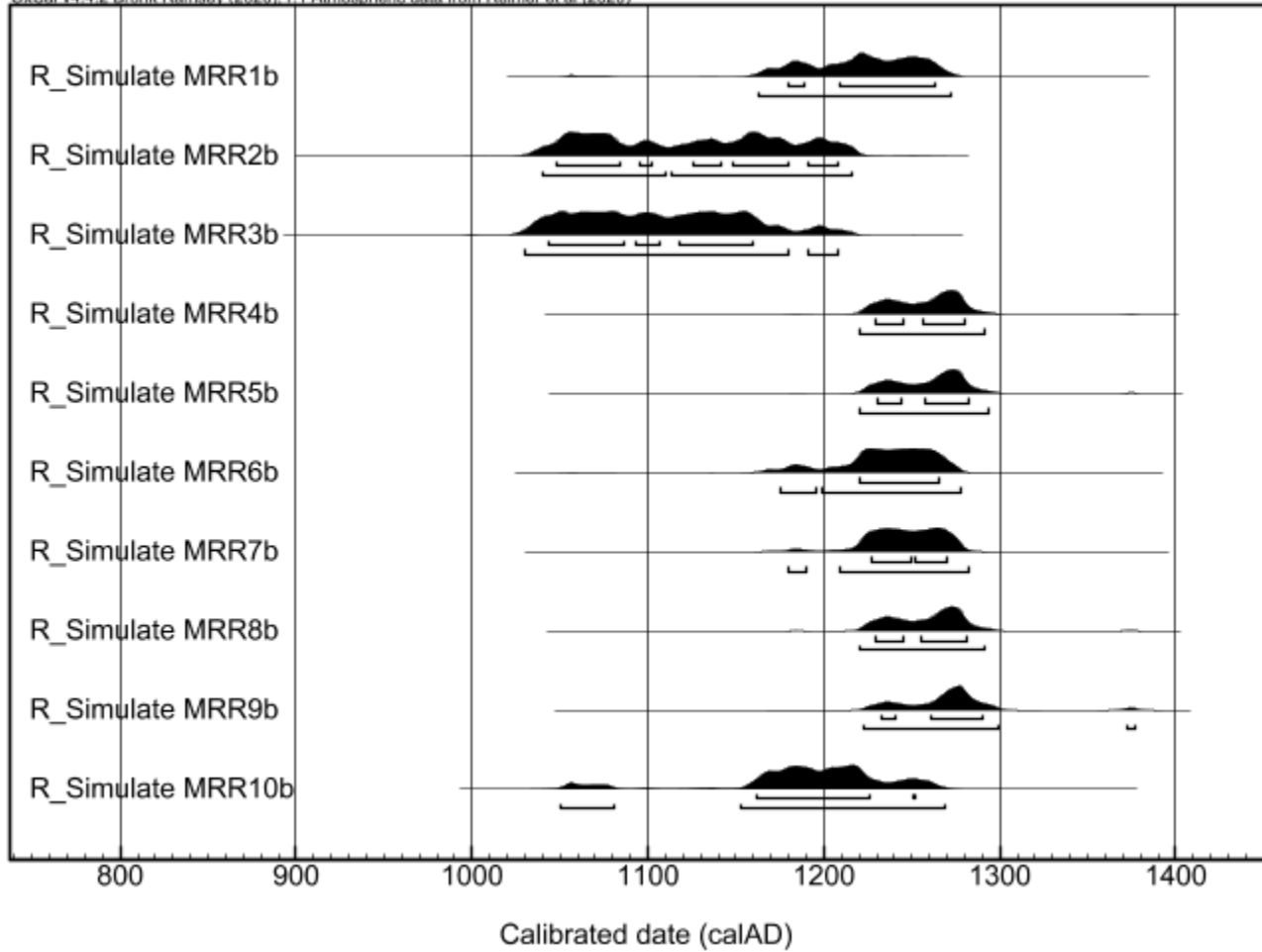
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1b R1						
Prior latest	1226	1268	68.26895	1179	1281	95.44997
Prior earliest	997	1150	68.26895	994	1157	95.44997
Difference TS2 MRR1b R1 Range	106	237	68.26895	71	264	95.44997

2.5.6 – Dataset MRR1b; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1b	1180	1263	68.26895	1162	1272	95.44997
R_Simulate MRR2b	1047	1207	68.26895	1039	1216	95.44997
R_Simulate MRR3b	1043	1159	68.26895	1030	1207	95.44997
R_Simulate MRR4b	1229	1280	68.26895	1220	1290	95.44997
R_Simulate MRR5b	1230	1281	68.26895	1220	1293	95.44997
R_Simulate MRR6b	1220	1266	68.26895	1175	1277	95.44997
R_Simulate MRR7b	1226	1270	68.26895	1180	1282	95.44997
R_Simulate MRR8b	1229	1281	68.26895	1220	1291	95.44997
R_Simulate MRR9b	1232	1290	68.26895	1222	1376	95.44997
R_Simulate MRR10b	1162	1251	68.26895	1050	1269	95.44997

2.5.7 – Dataset MRR1b; Run 2; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.5.8 - Dataset MRR1b; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1b R2")
  {
    Date(Prior("latest", "MRR9b.prior"));
    Date(Prior("earliest", "MRR3b.prior"));
    Difference("TS2 MRR1b R2 Range", "latest", "earliest");
  };
};
```

2.5.9 - Dataset MRR1b; Run 2; Dataset Range; Table of Results

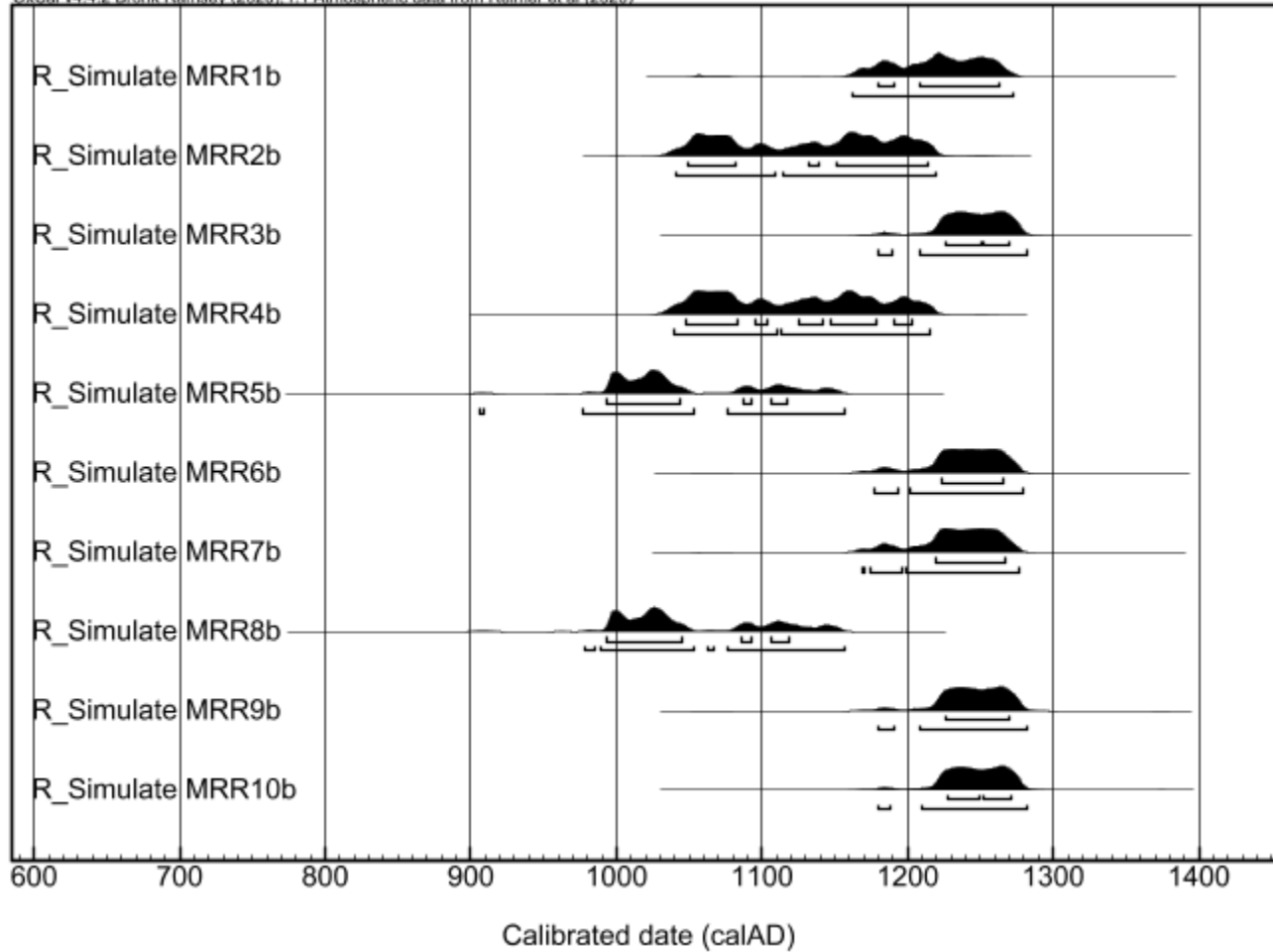
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1b R2						
Prior latest	1232	1290	68.26895	1222	1376	95.44997
Prior earliest	1043	1159	68.26895	1030	1207	95.44997
Difference TS2 MRR1b R2 Range	112	223	68.26895	53	256	95.44997

2.5.10 – Dataset MRR1b; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1b	1179	1263	68.26895	1161	1272	95.44997
R_Simulate MRR2b	1049	1214	68.26895	1040	1219	95.44997
R_Simulate MRR3b	1226	1269	68.26895	1180	1282	95.44997
R_Simulate MRR4b	1047	1203	68.26895	1039	1215	95.44997
R_Simulate MRR5b	993	1117	68.26895	906	1156	95.44997
R_Simulate MRR6b	1222	1266	68.26895	1177	1279	95.44997
R_Simulate MRR7b	1219	1266	68.26895	1168	1277	95.44997
R_Simulate MRR8b	993	1118	68.26895	978	1156	95.44997
R_Simulate MRR9b	1226	1269	68.26895	1179	1281	95.44997
R_Simulate MRR10b	1227	1270	68.26895	1180	1282	95.44997

2.5.11 – Dataset MRR1b; Run 3; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.5.12 - Dataset MRR1b; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1b R3")
  {
    Date(Prior("latest","MRR3b.prior"));
    Date(Prior("earliest","MRR5b.prior"));
    Difference("TS2 MRR1b R3 Range", "latest", "earliest");
  };
};
```

2.5.13 - Dataset MRR1b; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1b R3						
Prior latest	1226	1269	68.26895	1180	1282	95.44997
Prior earliest	993	1117	68.26895	906	1156	95.44997
Difference TS2 MRR1b R3 Range	127	267	68.26895	78	282	95.44997

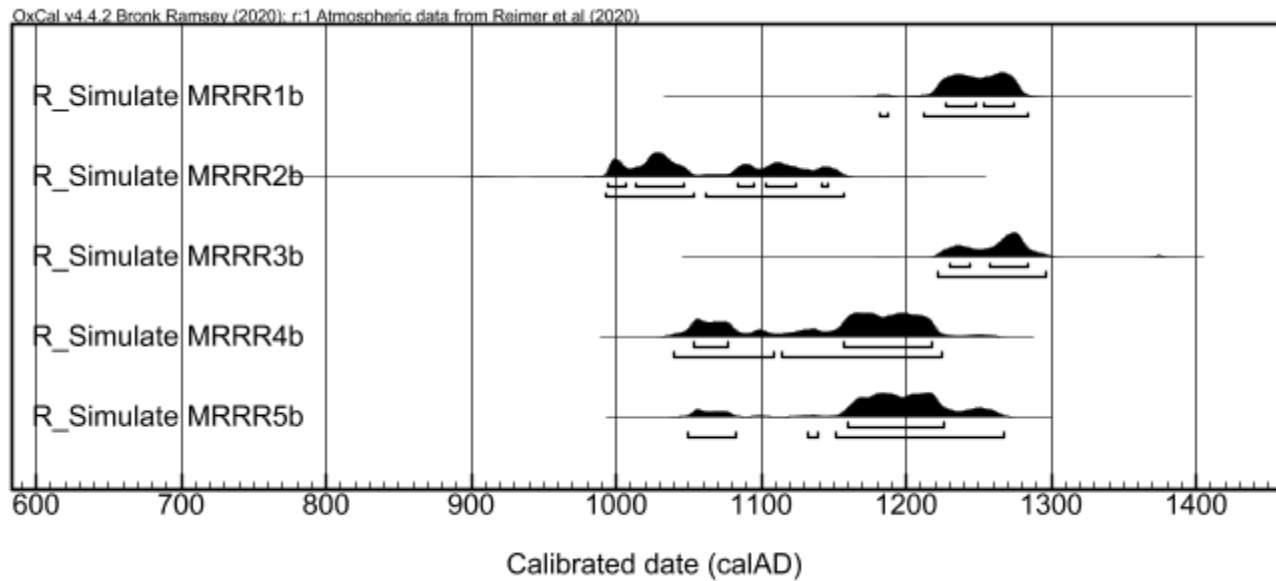
2.6.1 – Dataset MRRR1b (5 dates; 700 BP $\pm$ 35; 50 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRRR1b", 700-50*ln(rand()), 35);  
R_Simulate("MRRR2b", 700-50*ln(rand()), 35);  
R_Simulate("MRRR3b", 700-50*ln(rand()), 35);  
R_Simulate("MRRR4b", 700-50*ln(rand()), 35);  
R_Simulate("MRRR5b", 700-50*ln(rand()), 35);
```


2.6.2 – Dataset MRRR1b; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1b	1227	1273	68.26895	1181	1284	95.44997
R_Simulate MRRR2b	995	1146	68.26895	992	1157	95.44997
R_Simulate MRRR3b	1230	1284	68.26895	1221	1296	95.44997
R_Simulate MRRR4b	1053	1218	68.26895	1040	1225	95.44997
R_Simulate MRRR5b	1160	1225	68.26895	1049	1267	95.44997

2.6.3 – Dataset MRRR1b; Run 1; Simulated Dates; Multiple Plot



2.6.4 - Dataset MRRR1b; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1b R1")
  {
    Date(Prior("latest","MRRR3b.prior"));
    Date(Prior("earliest","MRRR2b.prior"));
    Difference("TS2 MRRR1b R1 Range", "latest", "earliest");
  };
};
```

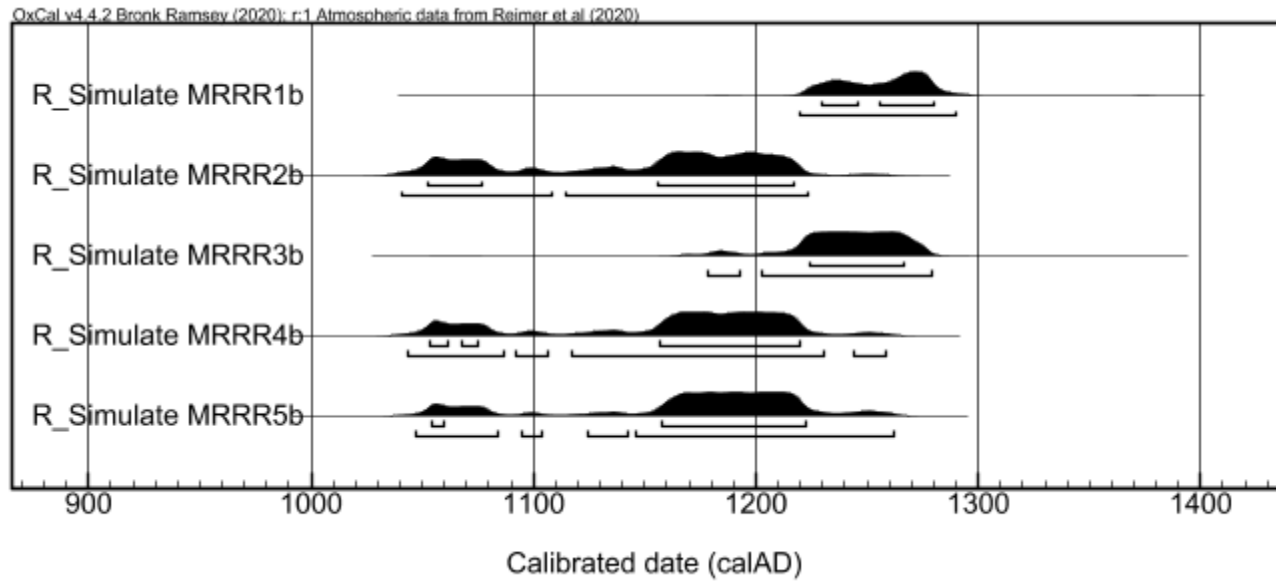
2.6.5 - Dataset MRRR1b; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1b R1						
Prior latest	1230	1284	68.26895	1221	1296	95.44997
Prior earliest	995	1146	68.26895	992	1157	95.44997
Difference TS2 MRRR1b R1 Range	124	266	68.26895	89	287	95.44997

2.6.6 – Dataset MRRR1b; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1b	1229	1280	68.26895	1219	1290	95.44997
R_Simulate MRRR2b	1053	1217	68.26895	1040	1223	95.44997
R_Simulate MRRR3b	1224	1266	68.26895	1178	1279	95.44997
R_Simulate MRRR4b	1053	1220	68.26895	1043	1258	95.44997
R_Simulate MRRR5b	1054	1222	68.26895	1046	1262	95.44997

2.6.7 – Dataset MRRR1b; Run 2; Simulated Dates; Multiple Plot



2.6.8 - Dataset MRRR1b; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1b R2")
  {
    Date(Prior("latest","MRRR1b.prior"));
    Date(Prior("earliest","MRRR2b.prior"));
    Difference("TS2 MRRR1b R2 Range", "latest", "earliest");
  };
};
```

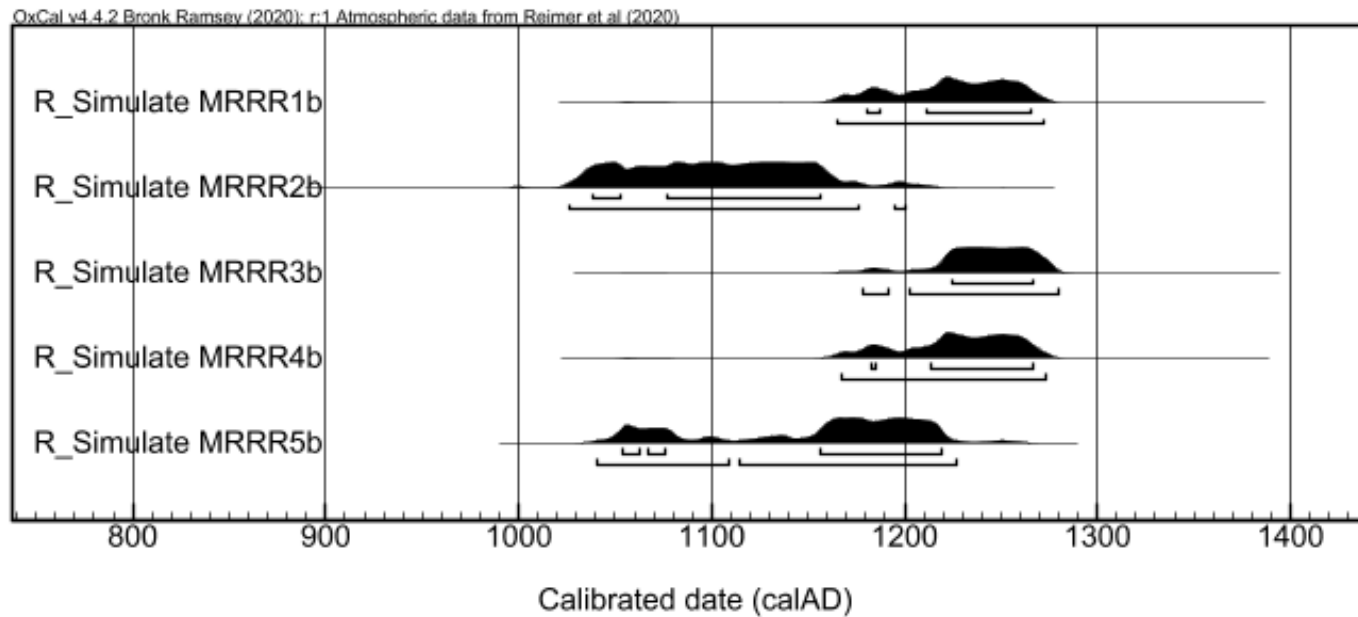
2.6.9 - Dataset MRRR1b; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1b R2						
Prior latest	1229	1280	68.26895	1219	1290	95.44997
Prior earliest	1053	1217	68.26895	1040	1223	95.44997
Difference TS2 MRRR1b R2 Range	33	205	68.26895	14	225	95.44997

2.6.10 – Dataset MRRR1b; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRRR1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1b	1181	1265	68.26895	1165	1272	95.44997
R_Simulate MRRR2b	1038	1156	68.26895	1026	1200	95.44997
R_Simulate MRRR3b	1224	1266	68.26895	1178	1279	95.44997
R_Simulate MRRR4b	1182	1266	68.26895	1167	1273	95.44997
R_Simulate MRRR5b	1053	1218	68.26895	1040	1226	95.44997

2.6.11 – Dataset MRRR1b; Run 3; Simulated Dates; Multiple Plot



2.6.12 - Dataset MR1b; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1b R3")
  {
    Date(Prior("latest", "MRRR3b.prior"));
    Date(Prior("earliest", "MRRR2b.prior"));
    Difference("TS2 MRRR1b R3 Range", "latest", "earliest");
  };
};
```

2.6.13 - Dataset MR1b; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1b R3						
Prior latest	1224	1266	68.26895	1178	1279	95.44997
Prior earliest	1038	1156	68.26895	1026	1200	95.44997
Difference TS2 MRRR1b R3 Range	90	195	68.26895	40	233	95.44997

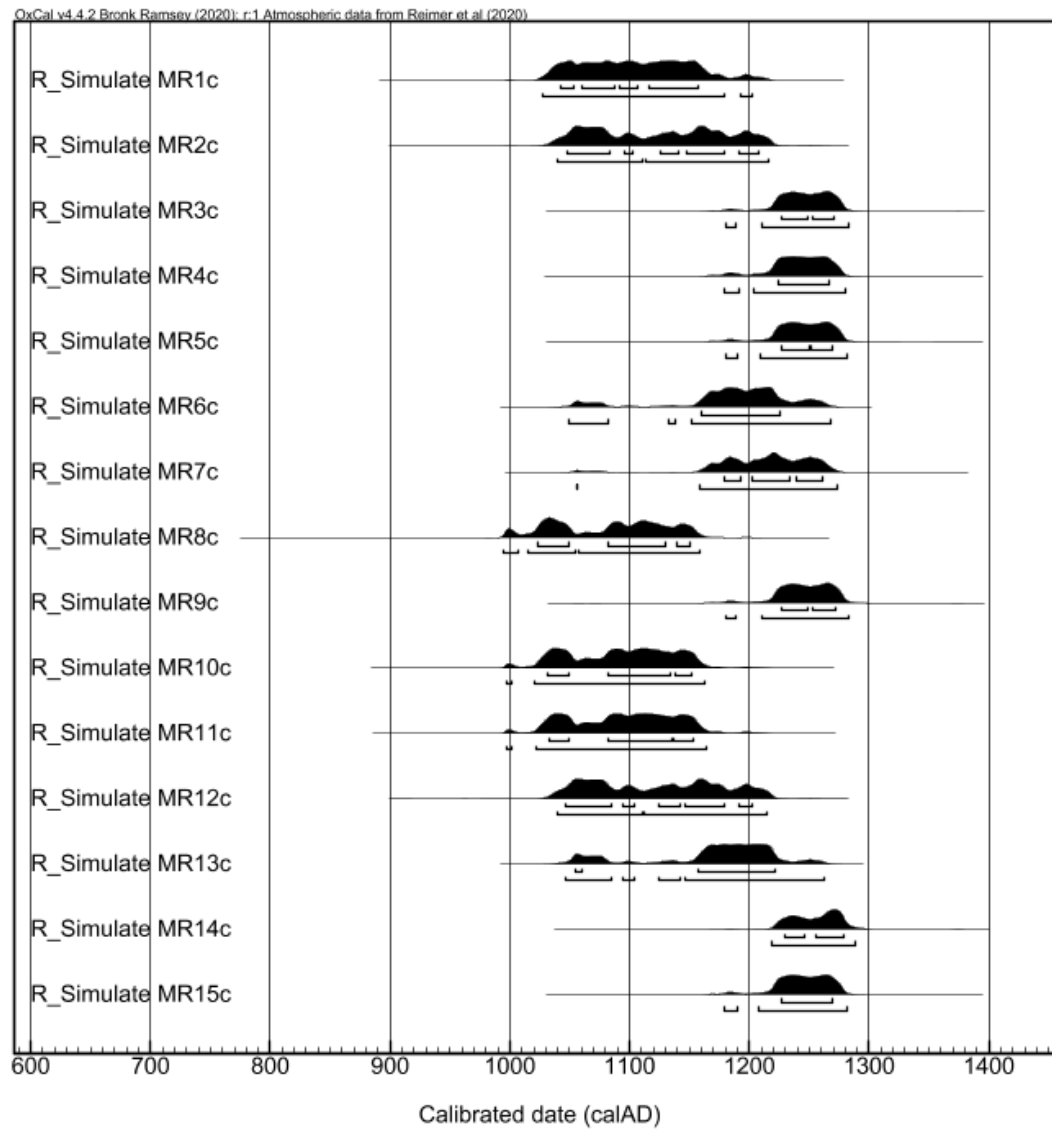
2.7.1 – Dataset MR1c (15 dates; 700 BP $\pm$ 35; 100 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MR1c", 700-100*ln(rand()), 35);  
R_Simulate("MR2c", 700-100*ln(rand()), 35);  
R_Simulate("MR3c", 700-100*ln(rand()), 35);  
R_Simulate("MR4c", 700-100*ln(rand()), 35);  
R_Simulate("MR5c", 700-100*ln(rand()), 35);  
R_Simulate("MR6c", 700-100*ln(rand()), 35);  
R_Simulate("MR7c", 700-100*ln(rand()), 35);  
R_Simulate("MR8c", 700-100*ln(rand()), 35);  
R_Simulate("MR9c", 700-100*ln(rand()), 35);  
R_Simulate("MR10c", 700-100*ln(rand()), 35);  
R_Simulate("MR11c", 700-100*ln(rand()), 35);  
R_Simulate("MR12c", 700-100*ln(rand()), 35);  
R_Simulate("MR13c", 700-100*ln(rand()), 35);  
R_Simulate("MR14c", 700-100*ln(rand()), 35);  
R_Simulate("MR15c", 700-100*ln(rand()), 35);
```

2.7.2 – Dataset MR1c; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1c	1042	1157	68.26895	1027	1202	95.44997
R_Simulate MR2c	1047	1207	68.26895	1039	1216	95.44997
R_Simulate MR3c	1227	1270	68.26895	1180	1282	95.44997
R_Simulate MR4c	1224	1266	68.26895	1179	1279	95.44997
R_Simulate MR5c	1226	1269	68.26895	1180	1282	95.44997
R_Simulate MR6c	1160	1226	68.26895	1049	1268	95.44997
R_Simulate MR7c	1178	1261	68.26895	1055	1273	95.44997
R_Simulate MR8c	1023	1151	68.26895	995	1158	95.44997
R_Simulate MR9c	1227	1271	68.26895	1180	1283	95.44997
R_Simulate MR10c	1031	1152	68.26895	997	1162	95.44997
R_Simulate MR11c	1032	1152	68.26895	997	1164	95.44997
R_Simulate MR12c	1047	1202	68.26895	1039	1214	95.44997
R_Simulate MR13c	1054	1222	68.26895	1046	1262	95.44997
R_Simulate MR14c	1229	1279	68.26895	1219	1288	95.44997
R_Simulate MR15c	1226	1269	68.26895	1179	1281	95.44997

2.7.3 – Dataset MR1c; Run 1; Simulated Dates; Multiple Plot



2.7.4 - Dataset MR1c; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1c R1")
  {
    Date(Prior("latest","MR14c.prior"));
    Date(Prior("earliest","MR8c.prior"));
    Difference("TS2 MR1c R1 Range", "latest", "earliest");
  };
};
```

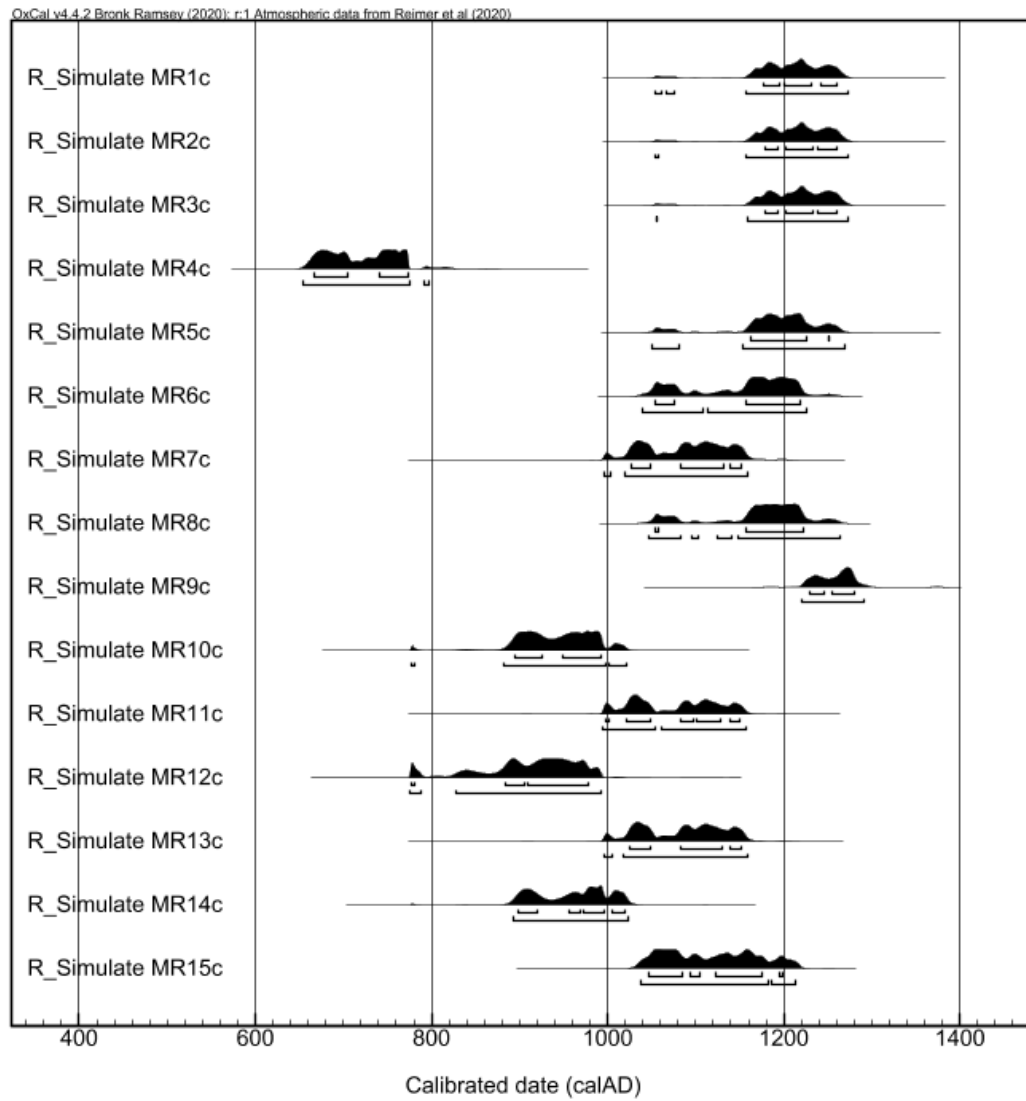
2.7.5 - Dataset MR1c; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1c R1						
Prior latest	1229	1279	68.26895	1219	1288	95.44997
Prior earliest	1023	1151	68.26895	995	1158	95.44997
Difference TS2 MR1c R1 Range	113	239	68.26895	79	266	95.44997

2.7.6 – Dataset MR1c; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1c	1176	1260	68.26895	1053	1273	95.44997
R_Simulate MR2c	1178	1260	68.26895	1054	1273	95.44997
R_Simulate MR3c	1178	1261	68.26895	1055	1273	95.44997
R_Simulate MR4c	667	773	68.26895	653	796	95.44997
R_Simulate MR5c	1162	1251	68.26895	1050	1268	95.44997
R_Simulate MR6c	1053	1218	68.26895	1040	1225	95.44997
R_Simulate MR7c	1026	1151	68.26895	996	1159	95.44997
R_Simulate MR8c	1054	1222	68.26895	1047	1263	95.44997
R_Simulate MR9c	1229	1281	68.26895	1220	1291	95.44997
R_Simulate MR10c	894	992	68.26895	776	1021	95.44997
R_Simulate MR11c	997	1150	68.26895	994	1157	95.44997
R_Simulate MR12c	776	977	68.26895	775	992	95.44997
R_Simulate MR13c	1024	1151	68.26895	995	1158	95.44997
R_Simulate MR14c	898	1019	68.26895	892	1023	95.44997
R_Simulate MR15c	1046	1199	68.26895	1036	1213	95.44997

2.7.7 – Dataset MR1c; Run 2; Simulated Dates; Multiple Plot



2.7.8 - Dataset MR1c; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1c R2")
  {
    Date(Prior("latest","MR9c.prior"));
    Date(Prior("earliest","MR4c.prior"));
    Difference("TS2 MR1c R2 Range", "latest", "earliest");
  };
};
```

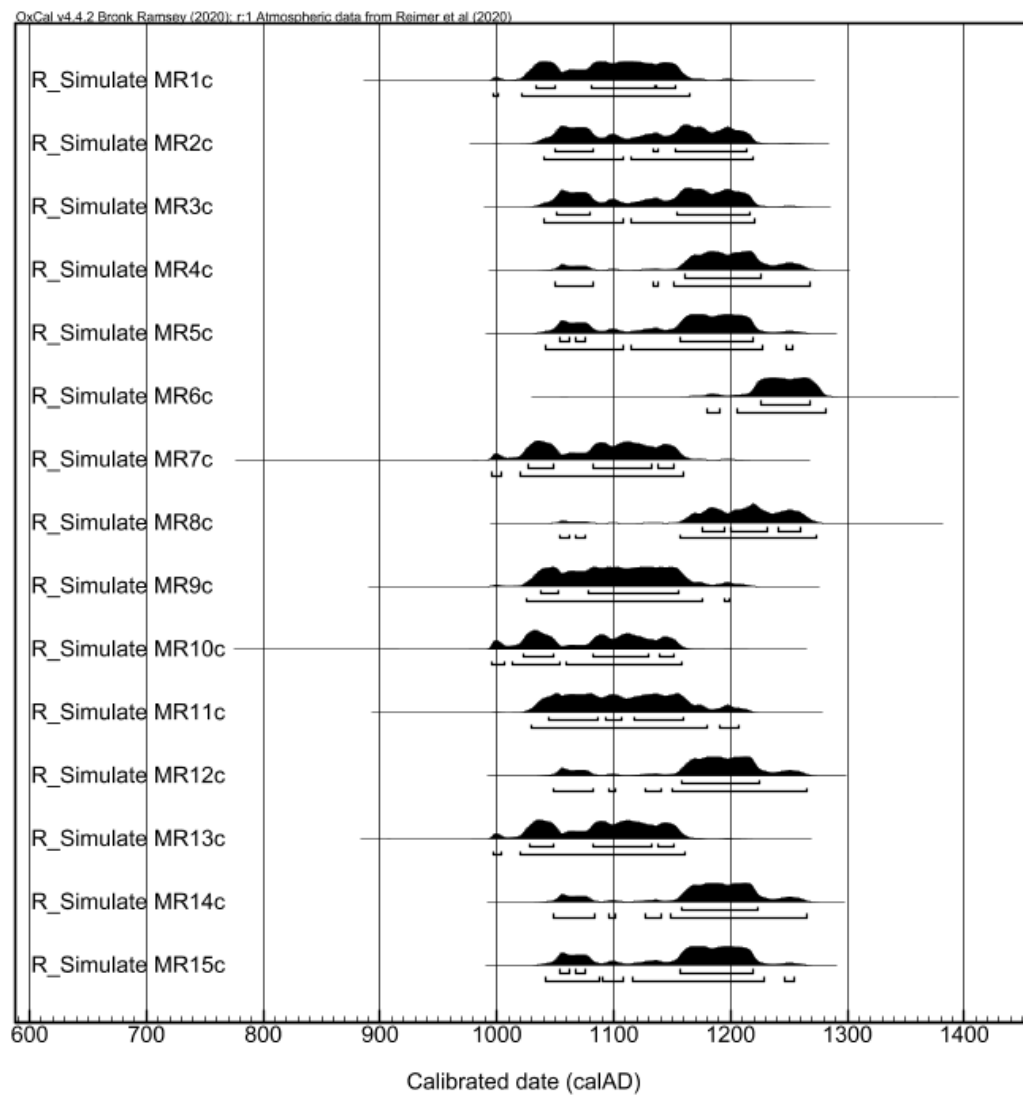
2.7.9 - Dataset MR1c; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1c R2						
Prior latest	1229	1281	68.26895	1220	1291	95.44997
Prior earliest	667	773	68.26895	653	796	95.44997
Difference TS2 MR1c R2 Range	495	590	68.26895	452	620	95.44997

2.7.10 – Dataset MR1c; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1c	1033	1152	68.26895	997	1165	95.44997
R_Simulate MR2c	1049	1214	68.26895	1040	1219	95.44997
R_Simulate MR3c	1051	1216	68.26895	1040	1221	95.44997
R_Simulate MR4c	1160	1226	68.26895	1049	1268	95.44997
R_Simulate MR5c	1053	1219	68.26895	1041	1253	95.44997
R_Simulate MR6c	1226	1268	68.26895	1179	1281	95.44997
R_Simulate MR7c	1027	1151	68.26895	996	1160	95.44997
R_Simulate MR8c	1176	1260	68.26895	1053	1273	95.44997
R_Simulate MR9c	1037	1155	68.26895	1025	1199	95.44997
R_Simulate MR10c	1022	1151	68.26895	995	1157	95.44997
R_Simulate MR11c	1043	1159	68.26895	1030	1207	95.44997
R_Simulate MR12c	1158	1224	68.26895	1048	1265	95.44997
R_Simulate MR13c	1028	1151	68.26895	996	1160	95.44997
R_Simulate MR14c	1158	1223	68.26895	1048	1265	95.44997
R_Simulate MR15c	1053	1219	68.26895	1042	1254	95.44997

2.7.11 – Dataset MR1c; Run 3; Simulated Dates; Multiple Plot



2.7.12 - Dataset MR1c; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1c R3")
  {
    Date(Prior("latest","MR6c.prior"));
    Date(Prior("earliest","MR10c.prior"));
    Difference("TS2 MR1c R3 Range", "latest", "earliest");
  };
};
```

2.7.13 - Dataset MR1c; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1c R3						
Prior latest	1226	1268	68.26895	1179	1281	95.44997
Prior earliest	1022	1151	68.26895	995	1157	95.44997
Difference TS2 MR1c R3 Range	104	231	68.26895	68	260	95.44997

2.8.1 – Dataset MRR1c (10 dates; 700 BP $\pm$ 35; 100 years IA; IntCal20); Date Simulation; Model Script

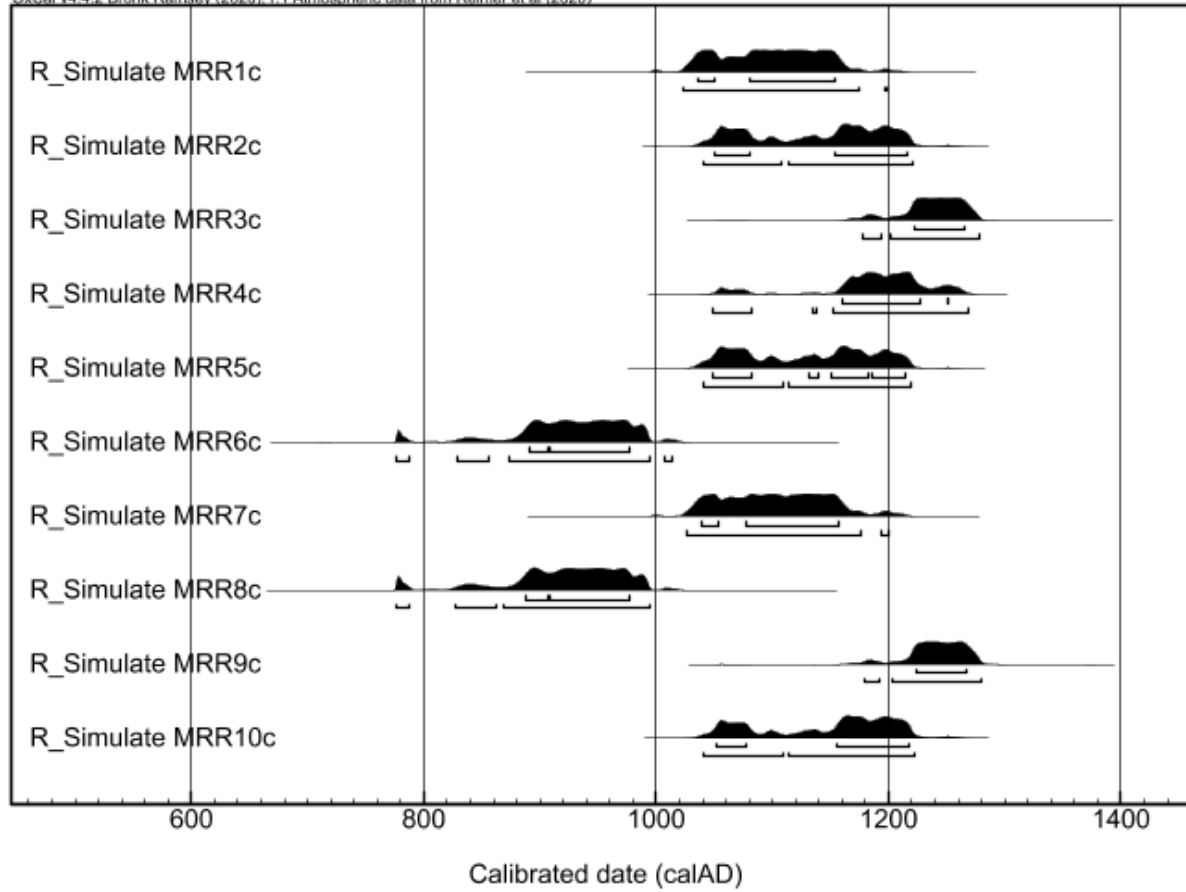
```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRR1c", 700-100*ln(rand()), 35);  
R_Simulate("MRR2c", 700-100*ln(rand()), 35);  
R_Simulate("MRR3c", 700-100*ln(rand()), 35);  
R_Simulate("MRR4c", 700-100*ln(rand()), 35);  
R_Simulate("MRR5c", 700-100*ln(rand()), 35);  
R_Simulate("MRR6c", 700-100*ln(rand()), 35);  
R_Simulate("MRR7c", 700-100*ln(rand()), 35);  
R_Simulate("MRR8c", 700-100*ln(rand()), 35);  
R_Simulate("MRR9c", 700-100*ln(rand()), 35);  
R_Simulate("MRR10c", 700-100*ln(rand()), 35);
```

2.8.2 – Dataset MRR1c; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1c	1036	1154	68.26895	1022	1198	95.44997
R_Simulate MRR2c	1050	1216	68.26895	1040	1220	95.44997
R_Simulate MRR3c	1222	1265	68.26895	1177	1278	95.44997
R_Simulate MRR4c	1160	1251	68.26895	1049	1268	95.44997
R_Simulate MRR5c	1048	1213	68.26895	1040	1218	95.44997
R_Simulate MRR6c	891	977	68.26895	775	1013	95.44997
R_Simulate MRR7c	1038	1156	68.26895	1026	1200	95.44997
R_Simulate MRR8c	888	977	68.26895	775	994	95.44997
R_Simulate MRR9c	1224	1266	68.26895	1179	1279	95.44997
R_Simulate MRR10c	1052	1216	68.26895	1040	1222	95.44997

2.8.3 – Dataset MRR1c; Run 1; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020): r:1 Atmospheric data from Reimer et al (2020)



2.8.4 - Dataset MRR1c; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1c R1")
  {
    Date(Prior("latest","MRR9c.prior"));
    Date(Prior("earliest","MRR8c.prior"));
    Difference("TS2 MRR1c R1 Range", "latest", "earliest");
  };
};
```

2.8.5 - Dataset MRR1c; Run 1; Dataset Range; Table of Results

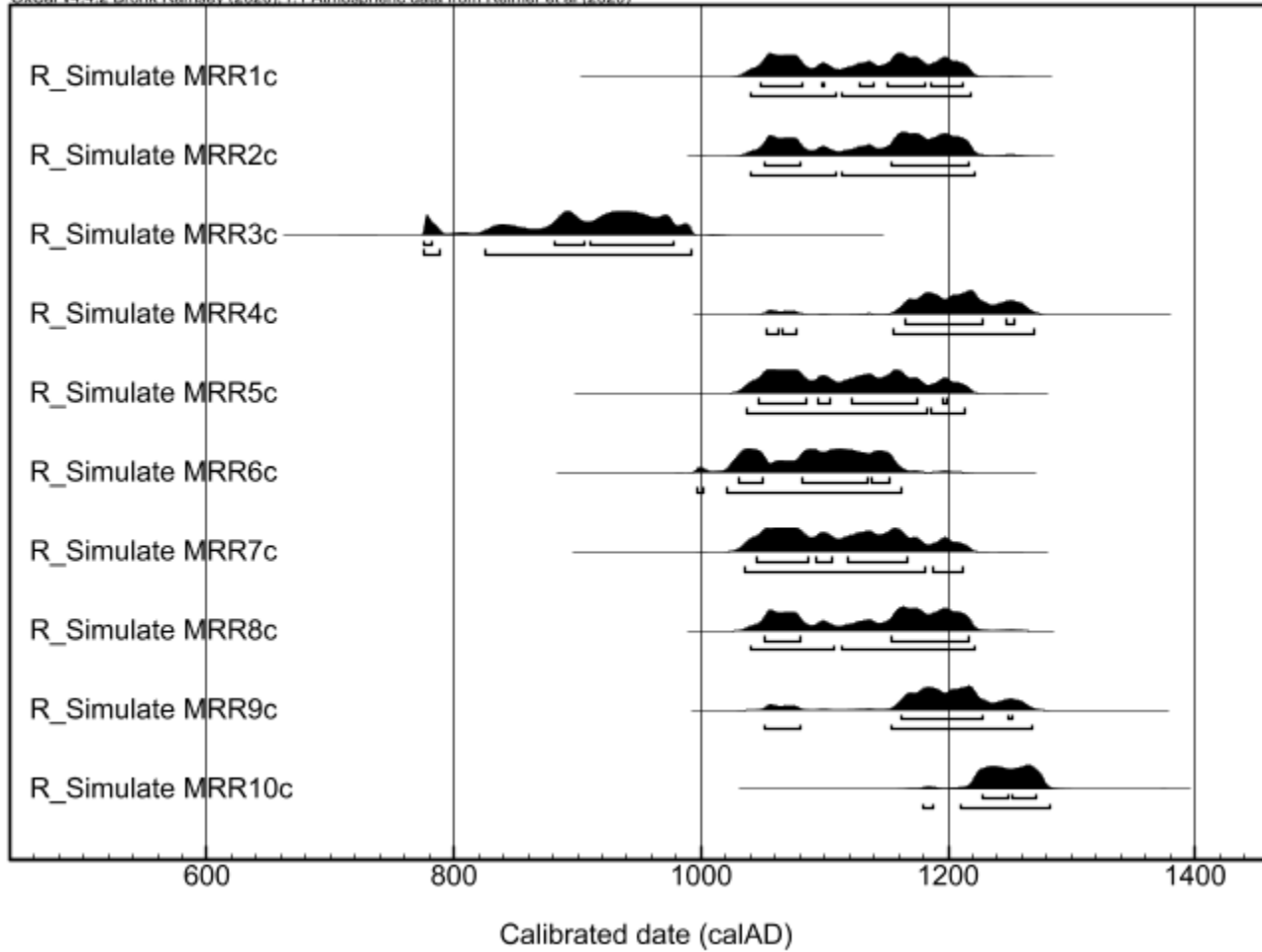
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1c R1						
Prior latest	1224	1266	68.26895	1179	1279	95.44997
Prior earliest	888	977	68.26895	775	994	95.44997
Difference TS2 MRR1c R1 Range	258	359	68.26895	217	457	95.44997

2.8.6 – Dataset MRR1c; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1c	1048	1212	68.26895	1040	1218	95.44997
R_Simulate MRR2c	1051	1216	68.26895	1040	1221	95.44997
R_Simulate MRR3c	776	977	68.26895	775	992	95.44997
R_Simulate MRR4c	1166	1253	68.26895	1053	1269	95.44997
R_Simulate MRR5c	1046	1199	68.26895	1036	1213	95.44997
R_Simulate MRR6c	1031	1152	68.26895	997	1162	95.44997
R_Simulate MRR7c	1044	1166	68.26895	1035	1211	95.44997
R_Simulate MRR8c	1051	1216	68.26895	1040	1221	95.44997
R_Simulate MRR9c	1162	1252	68.26895	1051	1268	95.44997
R_Simulate MRR10c	1227	1270	68.26895	1180	1282	95.44997

2.8.7 – Dataset MRR1c; Run 2; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.8.8 - Dataset MRR1c; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1c R2")
  {
    Date(Prior("latest","MRR10c.prior"));
    Date(Prior("earliest","MRR3c.prior"));
    Difference("TS2 MRR1c R2 Range", "latest", "earliest");
  };
};
```

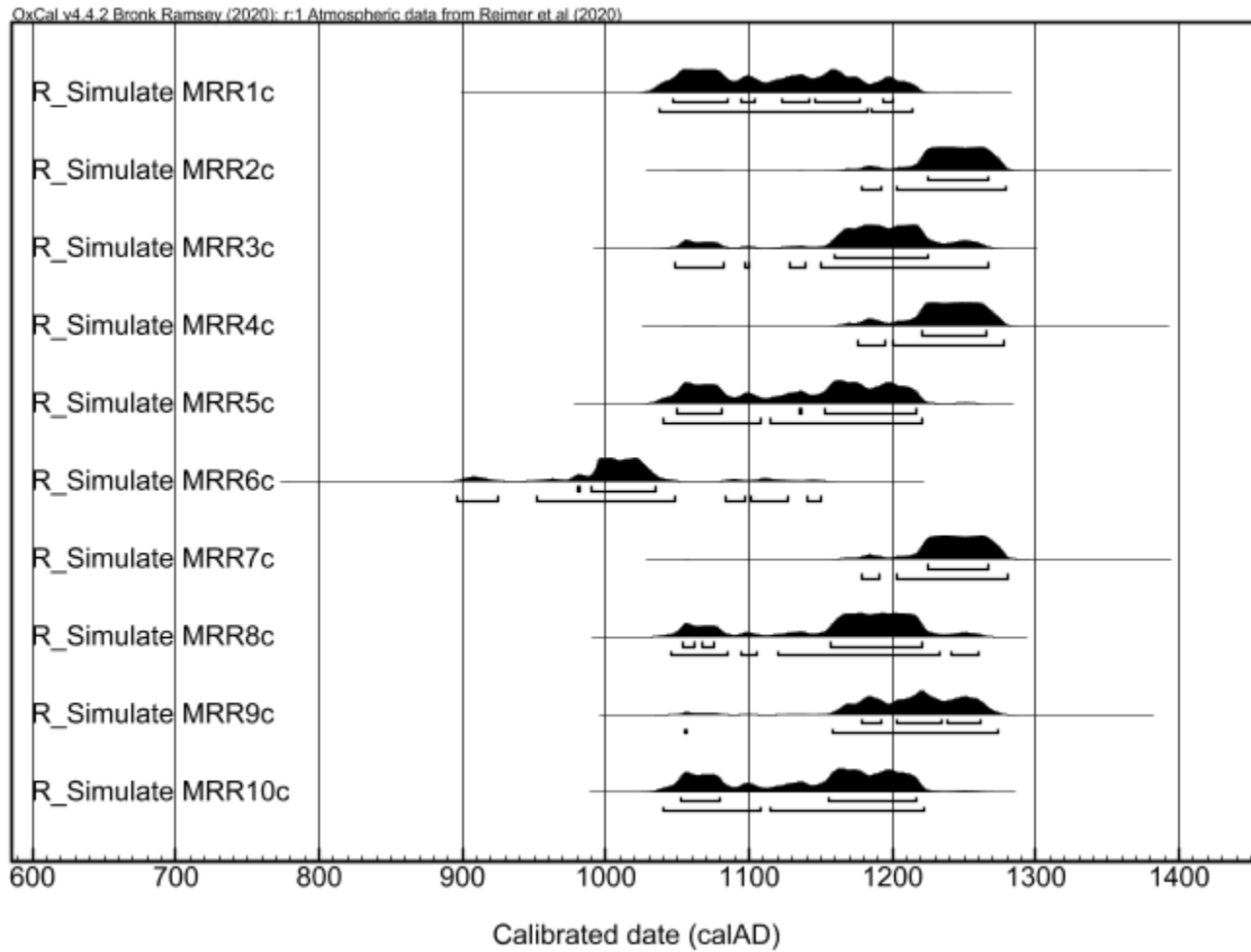
2.8.9 - Dataset MRR1c; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1c R2						
Prior latest	1227	1270	68.26895	1180	1282	95.44997
Prior earliest	776	977	68.26895	775	992	95.44997
Difference TS2 MRR1c R2 Range	266	381	68.26895	238	476	95.44997

2.8.10 – Dataset MRR1c; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1c	1046	1200	68.26895	1038	1213	95.44997
R_Simulate MRR2c	1224	1266	68.26895	1178	1279	95.44997
R_Simulate MRR3c	1159	1224	68.26895	1048	1266	95.44997
R_Simulate MRR4c	1221	1265	68.26895	1175	1278	95.44997
R_Simulate MRR5c	1049	1216	68.26895	1040	1220	95.44997
R_Simulate MRR6c	980	1034	68.26895	896	1149	95.44997
R_Simulate MRR7c	1225	1267	68.26895	1179	1280	95.44997
R_Simulate MRR8c	1053	1221	68.26895	1045	1260	95.44997
R_Simulate MRR9c	1178	1261	68.26895	1055	1273	95.44997
R_Simulate MRR10c	1051	1216	68.26895	1040	1221	95.44997

2.8.11 – Dataset MRR1c; Run 3; Simulated Dates; Multiple Plot



2.8.12 - Dataset MRR1c; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1c R3")
  {
    Date(Prior("latest","MRR7c.prior"));
    Date(Prior("earliest","MRR6c.prior"));
    Difference("TS2 MRR1c R3 Range", "latest", "earliest");
  };
};
```

2.8.13 - Dataset MRR1c; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1c R3						
Prior latest	1225	1267	68.26895	1179	1280	95.44997
Prior earliest	980	1034	68.26895	896	1149	95.44997
Difference TS2 MRR1c R3 Range	198	275	68.26895	114	354	95.44997

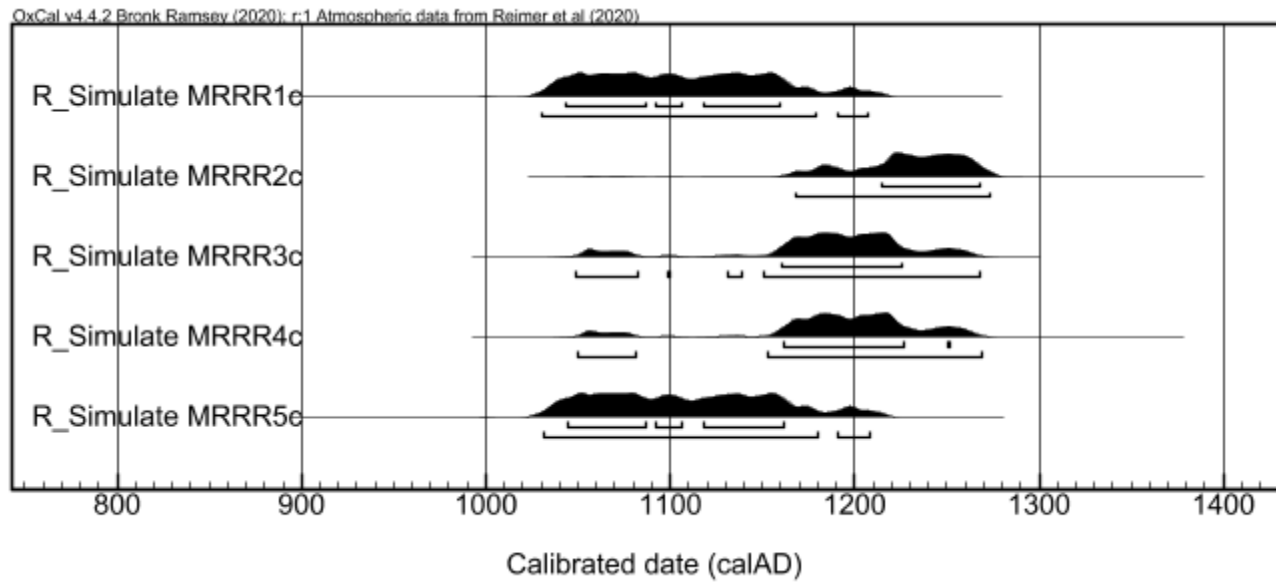
2.9.1 – Dataset MRRR1c (5 dates; 700 BP $\pm$ 35; 100 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRRR1c", 700-100*ln(rand()), 35);  
R_Simulate("MRRR2c", 700-100*ln(rand()), 35);  
R_Simulate("MRRR3c", 700-100*ln(rand()), 35);  
R_Simulate("MRRR4c", 700-100*ln(rand()), 35);  
R_Simulate("MRRR5c", 700-100*ln(rand()), 35);
```

2.9.2 – Dataset MRRR1c; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1c	1043	1159	68.26895	1030	1207	95.44997
R_Simulate MRRR2c	1214	1267	68.26895	1168	1273	95.44997
R_Simulate MRRR3c	1160	1225	68.26895	1048	1267	95.44997
R_Simulate MRRR4c	1162	1251	68.26895	1050	1269	95.44997
R_Simulate MRRR5c	1044	1161	68.26895	1031	1208	95.44997

2.9.3 – Dataset MRRR1c; Run 1; Simulated Dates; Multiple Plot



2.9.4 - Dataset MRRR1c; Run 1; Dataset Range; Model Script

```
Options()  
{  
  Resolution=1 year;  
  kIterations=20000;  
};  
Plot()  
{  
  Phase("TS2 MRRR1c R1")  
  {  
    Date(Prior("latest","MRRR2c.prior"));  
    Date(Prior("earliest","MRRR1c.prior"));  
    Difference("TS2 MRRR1c R1 Range", "latest", "earliest");  
  };  
};
```

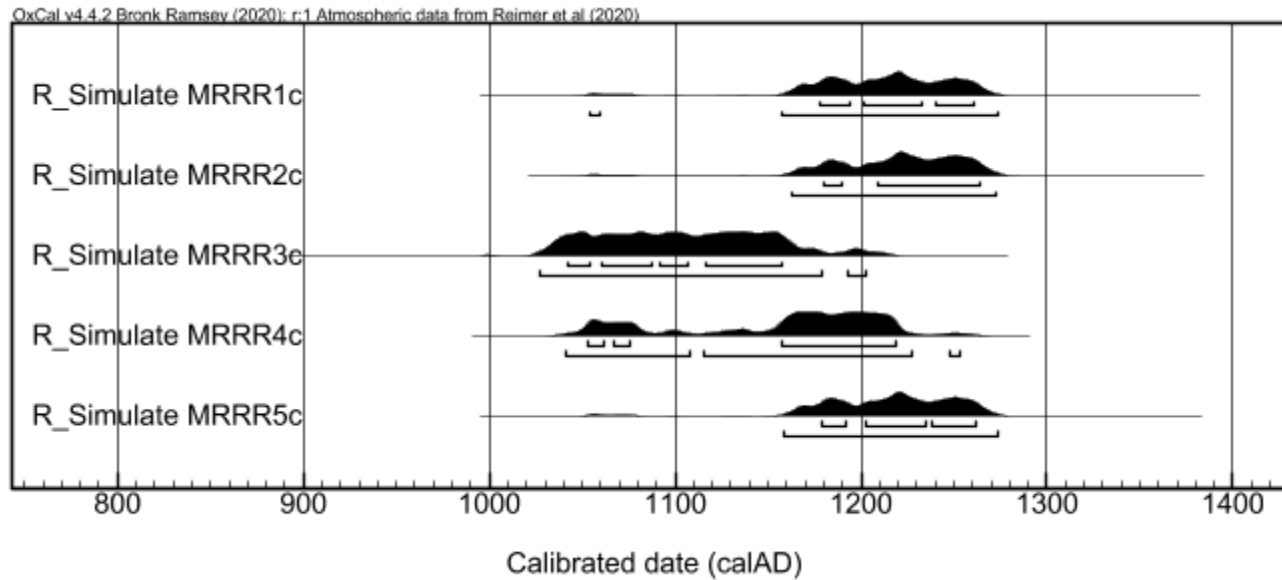
2.9.5 - Dataset MRRR1c; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1c R1						
Prior latest	1214	1267	68.26895	1168	1273	95.44997
Prior earliest	1043	1159	68.26895	1030	1207	95.44997
Difference TS2 MRRR1c R1 Range	71	187	68.26895	11	223	95.44997

2.9.6 – Dataset MRRR1c; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1c	1177	1260	68.26895	1054	1273	95.44997
R_Simulate MRRR2c	1180	1263	68.26895	1162	1272	95.44997
R_Simulate MRRR3c	1042	1157	68.26895	1027	1202	95.44997
R_Simulate MRRR4c	1053	1219	68.26895	1041	1253	95.44997
R_Simulate MRRR5c	1178	1261	68.26895	1158	1273	95.44997

2.9.7 – Dataset MRRR1c; Run 2; Simulated Dates; Multiple Plot



2.9.8 - Dataset MRRR1c; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1c R2")
  {
    Date(Prior("latest", "MRRR5c.prior"));
    Date(Prior("earliest", "MRRR3c.prior"));
    Difference("TS2 MRRR1c R2 Range", "latest", "earliest");
  };
};
```

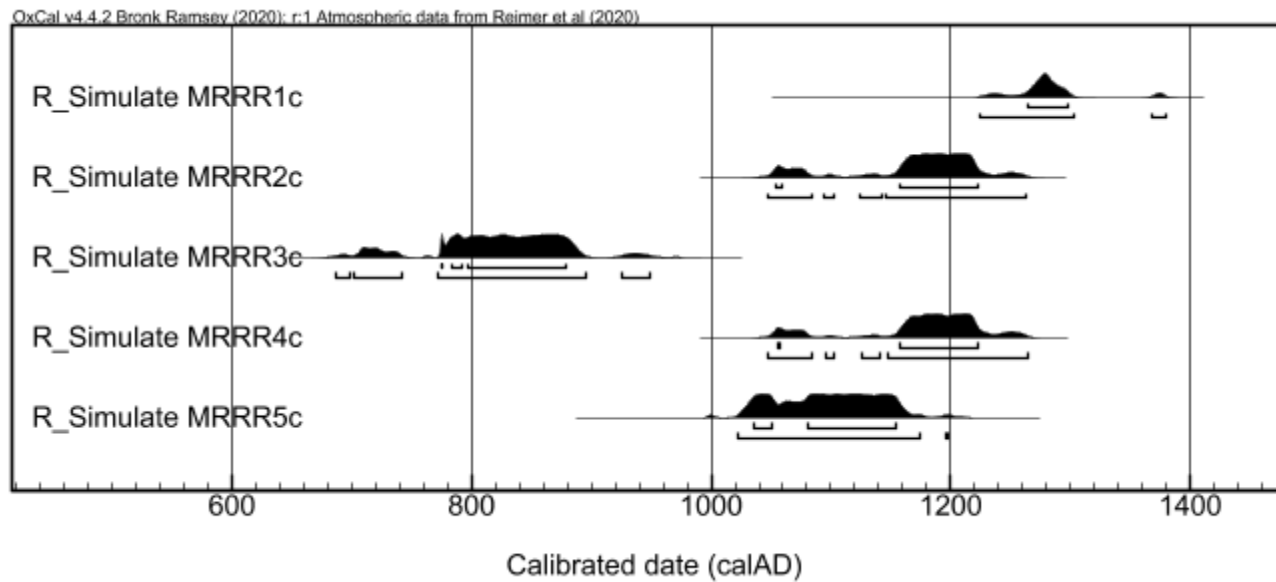
2.9.9 - Dataset MRRR1c; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1c R2						
Prior latest	1178	1261	68.26895	1158	1273	95.44997
Prior earliest	1042	1157	68.26895	1027	1202	95.44997
Difference TS2 MRRR1c R2 Range	57	175	68.26895	-6	223	95.44997

2.9.10 – Dataset MRRR1c; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRRR1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1c	1263	1298	68.26895	1225	1380	95.44997
R_Simulate MRRR2c	1054	1222	68.26895	1047	1263	95.44997
R_Simulate MRRR3c	775	879	68.26895	687	949	95.44997
R_Simulate MRRR4c	1055	1223	68.26895	1047	1264	95.44997
R_Simulate MRRR5c	1035	1154	68.26895	1022	1198	95.44997

2.9.11 – Dataset MRRR1c; Run 3; Simulated Dates; Multiple Plot



2.9.12 - Dataset MRRR1c; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1c R3")
  {
    Date(Prior("latest","MRRR1c.prior"));
    Date(Prior("earliest","MRRR3c.prior"));
    Difference("TS2 MRRR1c R3 Range", "latest", "earliest");
  };
};
```

2.9.13 - Dataset MRRR1c; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1c R3						
Prior latest	1263	1298	68.26895	1225	1380	95.44997
Prior earliest	775	879	68.26895	687	949	95.44997
Difference TS2 MRRR1c R3 Range	390	506	68.26895	336	595	95.44997

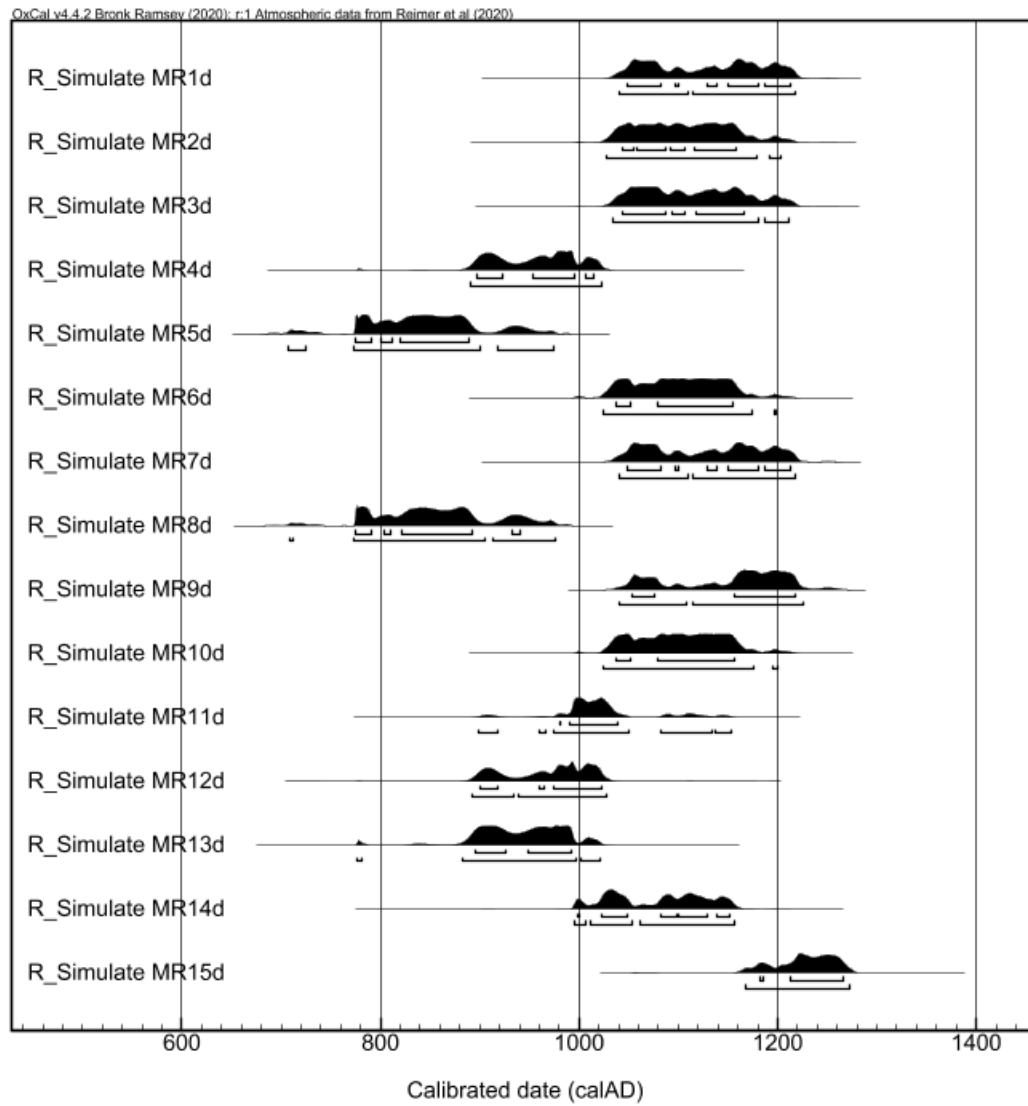
2.10.1 – Dataset MR1d (15 dates; 700 BP $\pm$ 35; 200 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MR1d", 700-200*ln(rand()), 35);  
R_Simulate("MR2d", 700-200*ln(rand()), 35);  
R_Simulate("MR3d", 700-200*ln(rand()), 35);  
R_Simulate("MR4d", 700-200*ln(rand()), 35);  
R_Simulate("MR5d", 700-200*ln(rand()), 35);  
R_Simulate("MR6d", 700-200*ln(rand()), 35);  
R_Simulate("MR7d", 700-200*ln(rand()), 35);  
R_Simulate("MR8d", 700-200*ln(rand()), 35);  
R_Simulate("MR9d", 700-200*ln(rand()), 35);  
R_Simulate("MR10d", 700-200*ln(rand()), 35);  
R_Simulate("MR11d", 700-200*ln(rand()), 35);  
R_Simulate("MR12d", 700-200*ln(rand()), 35);  
R_Simulate("MR13d", 700-200*ln(rand()), 35);  
R_Simulate("MR14d", 700-200*ln(rand()), 35);  
R_Simulate("MR15d", 700-200*ln(rand()), 35);
```

2.10.2 – Dataset MR1d; Run 1; Simulated Dates; Table of Distributions

Name: TS2 M1d R1	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1d	1048	1212	68.26895	1040	1218	95.44997
R_Simulate MR2d	1043	1157	68.26895	1028	1203	95.44997
R_Simulate MR3d	1044	1165	68.26895	1034	1211	95.44997
R_Simulate MR4d	897	1015	68.26895	891	1022	95.44997
R_Simulate MR5d	775	888	68.26895	706	974	95.44997
R_Simulate MR6d	1036	1155	68.26895	1024	1198	95.44997
R_Simulate MR7d	1048	1212	68.26895	1040	1218	95.44997
R_Simulate MR8d	775	940	68.26895	709	976	95.44997
R_Simulate MR9d	1053	1218	68.26895	1040	1225	95.44997
R_Simulate MR10d	1037	1155	68.26895	1025	1199	95.44997
R_Simulate MR11d	980	1039	68.26895	899	1152	95.44997
R_Simulate MR12d	899	1022	68.26895	892	1027	95.44997
R_Simulate MR13d	894	992	68.26895	776	1021	95.44997
R_Simulate MR14d	998	1150	68.26895	994	1157	95.44997
R_Simulate MR15d	1182	1266	68.26895	1167	1273	95.44997

2.10.3 – Dataset MR1d Run 1; Simulated Dates; Multiple Plot



2.10.4 - Dataset MR1d; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1d R1")
  {
    Date(Prior("latest","MR15d.prior"));
    Date(Prior("earliest","MR5d.prior"));
    Difference("TS2 MR1d R1 Range", "latest", "earliest");
  };
};
```

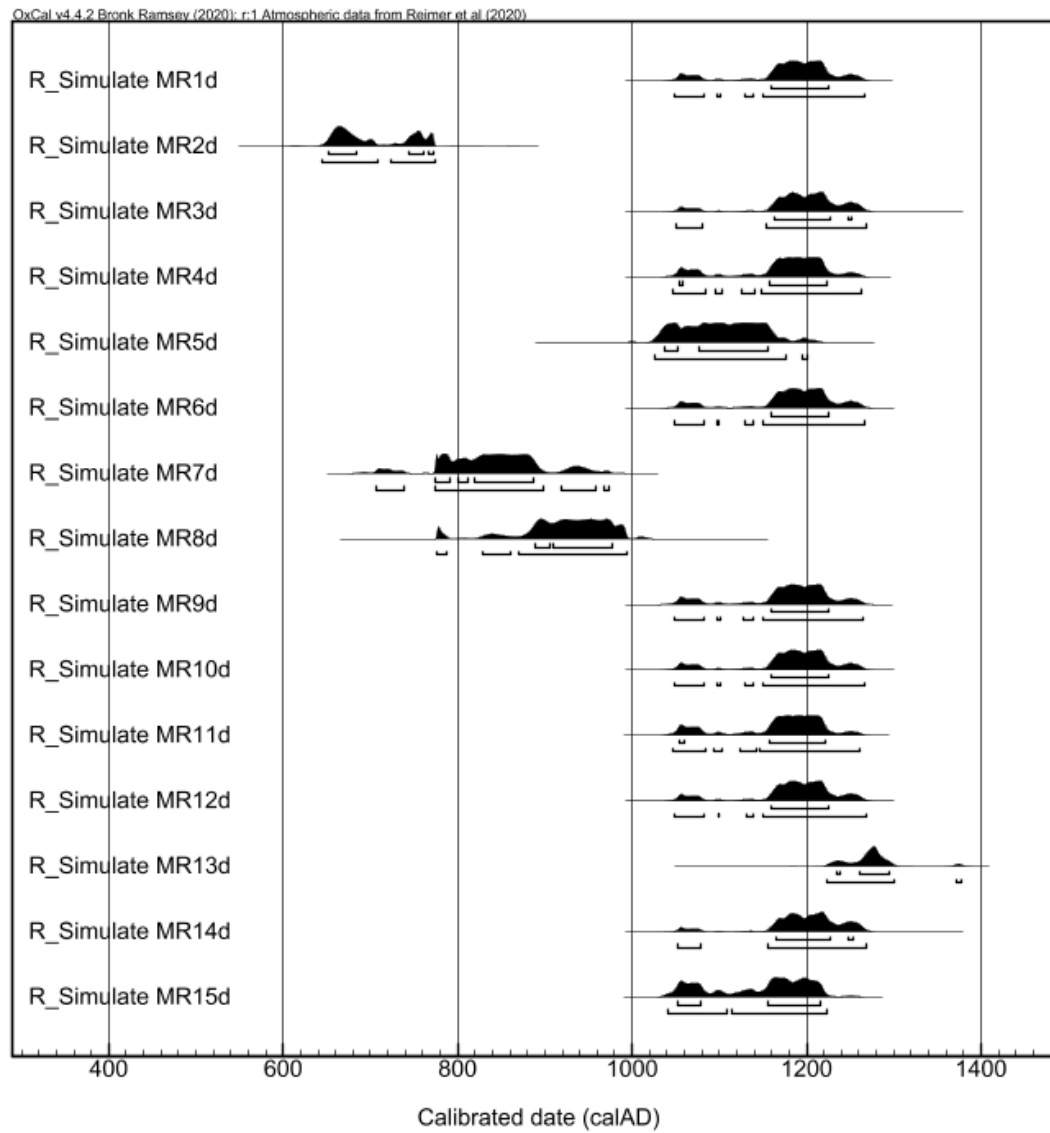
2.10.5 - Dataset MR1d; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1d R1						
Prior latest	1182	1266	68.26895	1167	1273	95.44997
Prior earliest	775	888	68.26895	706	974	95.44997
Difference TS2 MR1d R1 Range	325	453	68.26895	233	523	95.44997

2.10.6 – Dataset MR1d; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1d	1159	1224	68.26895	1048	1266	95.44997
R_Simulate MR2d	652	772	68.26895	644	774	95.44997
R_Simulate MR3d	1162	1252	68.26895	1051	1268	95.44997
R_Simulate MR4d	1054	1222	68.26895	1047	1263	95.44997
R_Simulate MR5d	1038	1156	68.26895	1025	1200	95.44997
R_Simulate MR6d	1159	1225	68.26895	1048	1267	95.44997
R_Simulate MR7d	775	886	68.26895	706	973	95.44997
R_Simulate MR8d	889	977	68.26895	775	994	95.44997
R_Simulate MR9d	1158	1224	68.26895	1048	1265	95.44997
R_Simulate MR10d	1159	1224	68.26895	1048	1266	95.44997
R_Simulate MR11d	1054	1221	68.26895	1046	1261	95.44997
R_Simulate MR12d	1160	1225	68.26895	1048	1267	95.44997
R_Simulate MR13d	1233	1294	68.26895	1223	1377	95.44997
R_Simulate MR14d	1164	1252	68.26895	1052	1268	95.44997
R_Simulate MR15d	1052	1216	68.26895	1040	1222	95.44997

2.10.7 – Dataset MR1d; Run 2; Simulated Dates; Multiple Plot



2.10.8 - Dataset MR1d; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1d R2")
  {
    Date(Prior("latest","MR13d.prior"));
    Date(Prior("earliest","MR2d.prior"));
    Difference("TS2 MR1d R2 Range", "latest", "earliest");
  };
};
```

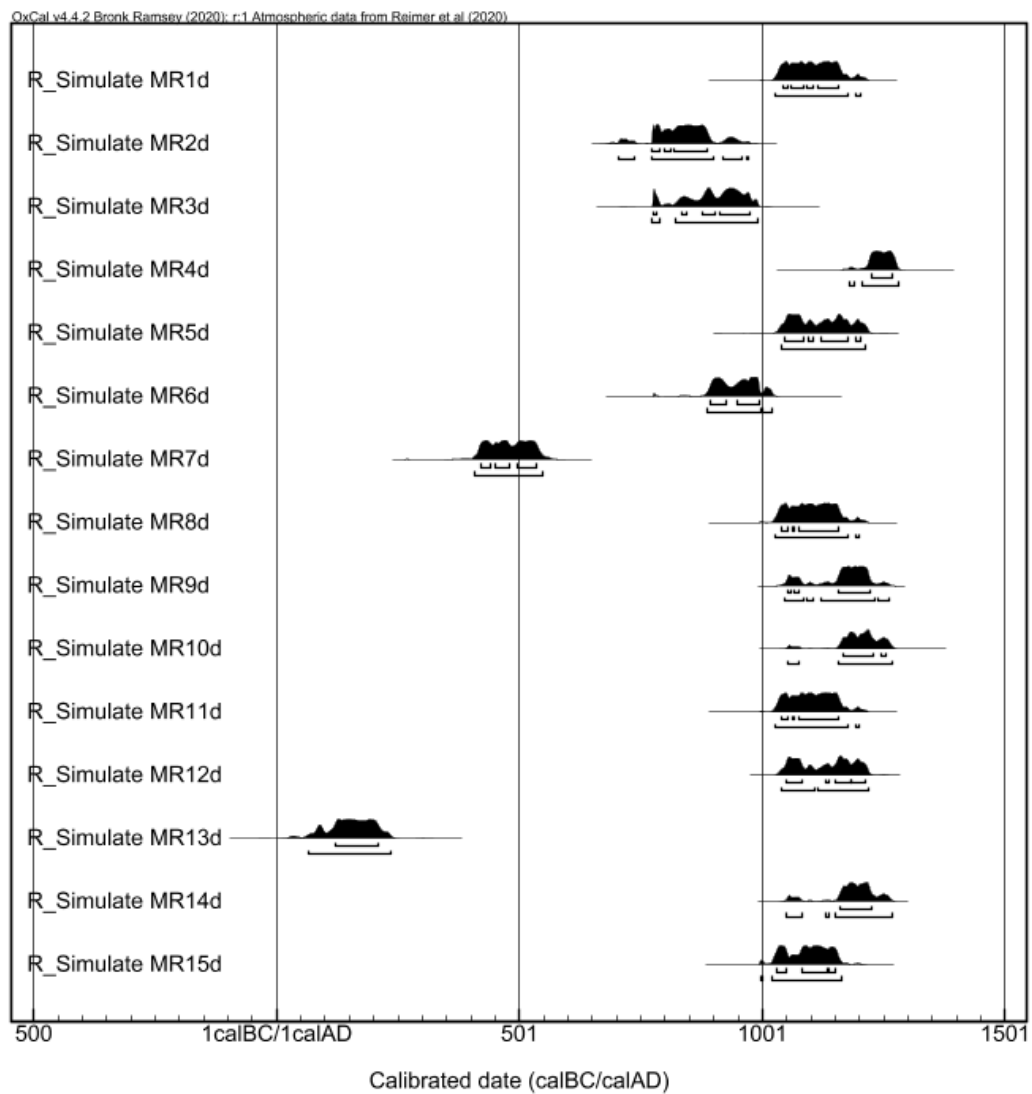
2.10.9 - Dataset MR1d; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1d R2						
Prior latest	1233	1294	68.26895	1223	1377	95.44997
Prior earliest	652	772	68.26895	644	774	95.44997
Difference TS2 MR1d R2 Range	506	628	68.26895	460	709	95.44997

2.10.10 – Dataset MR1d; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1d	1042	1157	68.26895	1028	1202	95.44997
R_Simulate MR2d	775	886	68.26895	705	973	95.44997
R_Simulate MR3d	776	976	68.26895	775	992	95.44997
R_Simulate MR4d	1226	1268	68.26895	1179	1281	95.44997
R_Simulate MR5d	1046	1202	68.26895	1039	1213	95.44997
R_Simulate MR6d	895	993	68.26895	886	1022	95.44997
R_Simulate MR7d	421	535	68.26895	409	550	95.44997
R_Simulate MR8d	1039	1156	68.26895	1026	1200	95.44997
R_Simulate MR9d	1053	1221	68.26895	1045	1260	95.44997
R_Simulate MR10d	1166	1254	68.26895	1053	1269	95.44997
R_Simulate MR11d	1039	1156	68.26895	1026	1200	95.44997
R_Simulate MR12d	1048	1213	68.26895	1040	1218	95.44997
R_Simulate MR13d	121	210	68.26895	65	235	95.44997
R_Simulate MR14d	1160	1226	68.26895	1049	1268	95.44997
R_Simulate MR15d	1032	1152	68.26895	997	1163	95.44997

2.10.11 – Dataset MR1d; Run 3; Simulated Dates; Multiple Plot



2.10.12 - Dataset MR1d; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1d R3")
  {
    Date(Prior("latest","MR4d.prior"));
    Date(Prior("earliest","MR13d.prior"));
    Difference("TS2 MR1d R3 Range", "latest", "earliest");
  };
};
```

2.10.13 - Dataset MR1d; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1d R3						
Prior latest	1226	1268	68.26895	1179	1281	95.44997
Prior earliest	121	210	68.26895	65	235	95.44997
Difference TS2 MR1d R3 Range	1033	1135	68.26895	994	1197	95.44997

2.11.1 – Dataset MRR1d (10 dates; 700 BP $\pm$ 35; 200 years IA; IntCal20); Date Simulation; Model Script

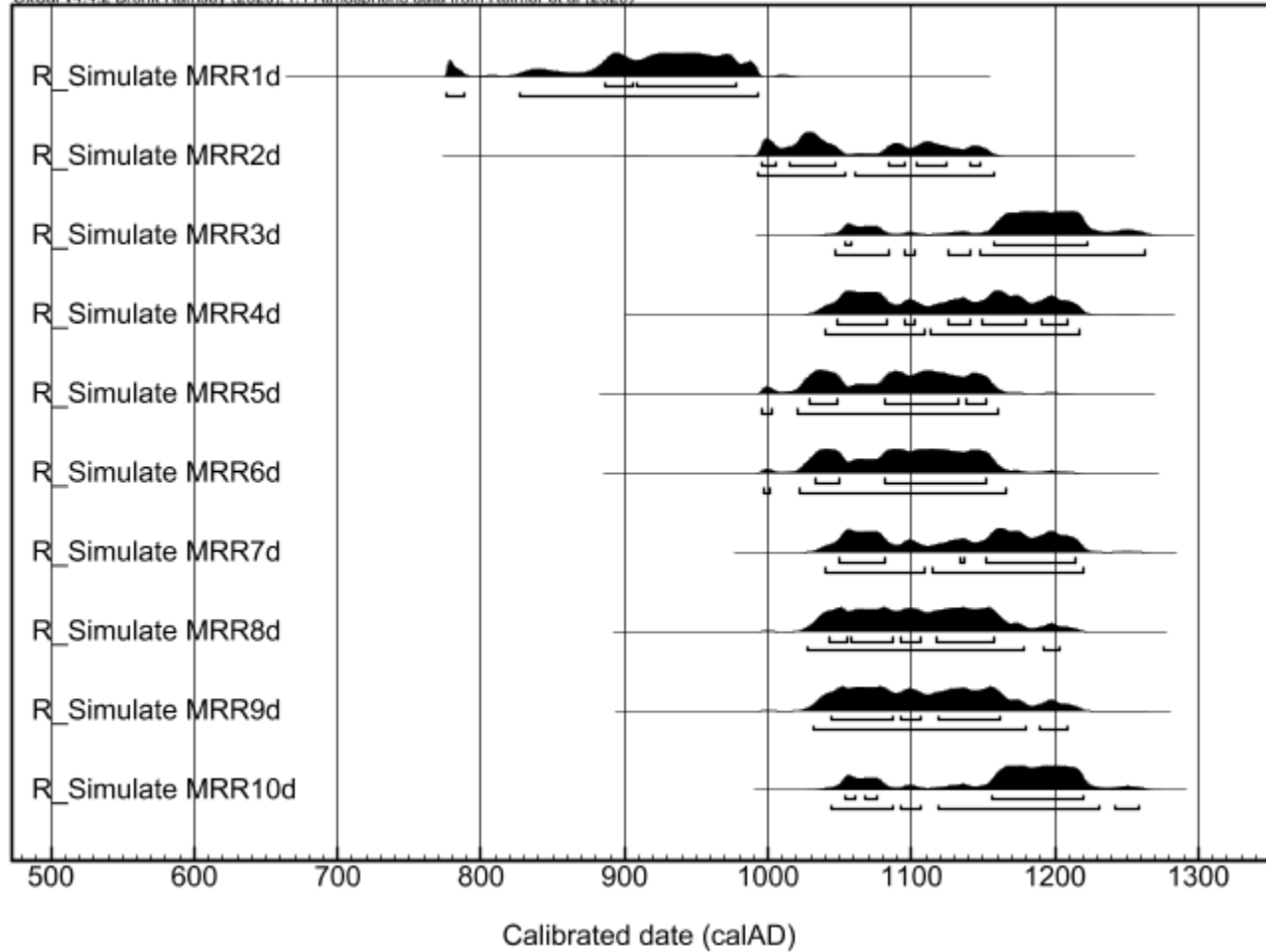
```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRR1d", 700-200*ln(rand()), 35);  
R_Simulate("MRR2d", 700-200*ln(rand()), 35);  
R_Simulate("MRR3d", 700-200*ln(rand()), 35);  
R_Simulate("MRR4d", 700-200*ln(rand()), 35);  
R_Simulate("MRR5d", 700-200*ln(rand()), 35);  
R_Simulate("MRR6d", 700-200*ln(rand()), 35);  
R_Simulate("MRR7d", 700-200*ln(rand()), 35);  
R_Simulate("MRR8d", 700-200*ln(rand()), 35);  
R_Simulate("MRR9d", 700-200*ln(rand()), 35);  
R_Simulate("MRR10d", 700-200*ln(rand()), 35);
```

2.11.2 – Dataset MRR1d; Run 1; Simulated Dates; Table of Distributions

<u>Name: TS2 R1 MRR1d</u>	<u>Unmodelled (BC/AD)</u>					
	<u>from</u>	<u>to</u>	<u>%</u>	<u>from</u>	<u>to</u>	<u>%</u>
<u>R Simulate MRR1d</u>	<u>886</u>	<u>977</u>	<u>68.26895</u>	<u>775</u>	<u>993</u>	<u>95.44997</u>
<u>R Simulate MRR2d</u>	<u>995</u>	<u>1147</u>	<u>68.26895</u>	<u>992</u>	<u>1157</u>	<u>95.44997</u>
<u>R Simulate MRR3d</u>	<u>1054</u>	<u>1222</u>	<u>68.26895</u>	<u>1047</u>	<u>1263</u>	<u>95.44997</u>
<u>R Simulate MRR4d</u>	<u>1047</u>	<u>1208</u>	<u>68.26895</u>	<u>1040</u>	<u>1216</u>	<u>95.44997</u>
<u>R Simulate MRR5d</u>	<u>1028</u>	<u>1151</u>	<u>68.26895</u>	<u>996</u>	<u>1160</u>	<u>95.44997</u>
<u>R Simulate MRR6d</u>	<u>1033</u>	<u>1152</u>	<u>68.26895</u>	<u>997</u>	<u>1165</u>	<u>95.44997</u>
<u>R Simulate MRR7d</u>	<u>1049</u>	<u>1214</u>	<u>68.26895</u>	<u>1040</u>	<u>1219</u>	<u>95.44997</u>
<u>R Simulate MRR8d</u>	<u>1043</u>	<u>1157</u>	<u>68.26895</u>	<u>1028</u>	<u>1203</u>	<u>95.44997</u>
<u>R Simulate MRR9d</u>	<u>1044</u>	<u>1161</u>	<u>68.26895</u>	<u>1031</u>	<u>1209</u>	<u>95.44997</u>
<u>R Simulate MRR10d</u>	<u>1053</u>	<u>1220</u>	<u>68.26895</u>	<u>1044</u>	<u>1259</u>	<u>95.44997</u>

2.11.3 – Dataset MRR1d Run 1; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.11.4 - Dataset MRR1d; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1d R1")
  {
    Date(Prior("latest","MRR3d.prior"));
    Date(Prior("earliest","MRR1d.prior"));
    Difference("TS2 MRR1d R1 Range", "latest", "earliest");
  };
};
```

2.11.5 - Dataset MRR1d; Run 1; Dataset Range; Table of Results

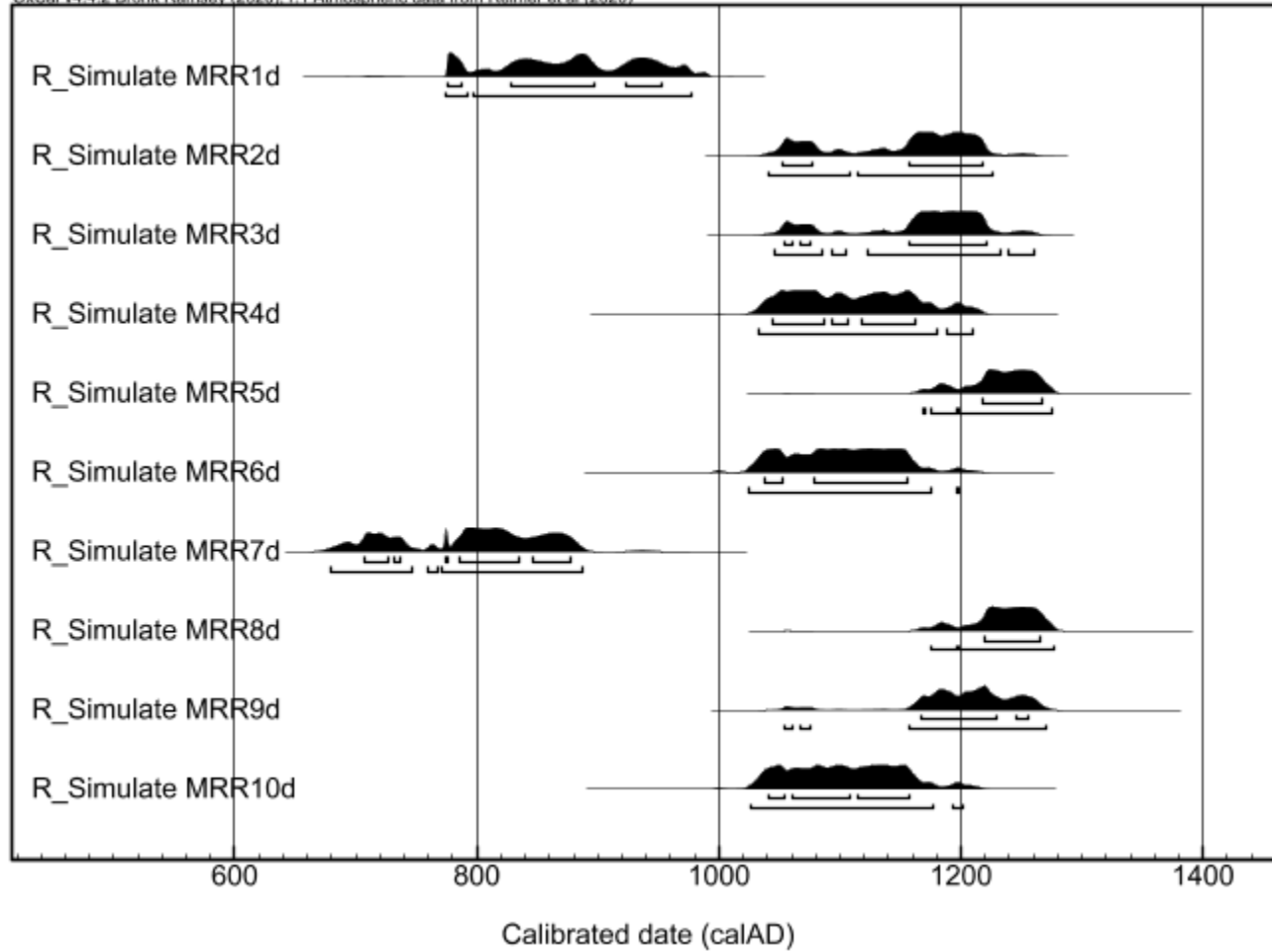
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1d R1						
Prior latest	1054	1222	68.26895	1047	1263	95.44997
Prior earliest	886	977	68.26895	775	993	95.44997
Difference TS2 MRR1d R1 Range	190	329	68.26895	85	403	95.44997

2.11.6 – Dataset MRR1d; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1d	775	953	68.26895	774	977	95.44997
R_Simulate MRR2d	1053	1218	68.26895	1040	1225	95.44997
R_Simulate MRR3d	1053	1221	68.26895	1045	1260	95.44997
R_Simulate MRR4d	1044	1162	68.26895	1032	1210	95.44997
R_Simulate MRR5d	1217	1267	68.26895	1168	1275	95.44997
R_Simulate MRR6d	1037	1155	68.26895	1024	1198	95.44997
R_Simulate MRR7d	706	877	68.26895	679	887	95.44997
R_Simulate MRR8d	1220	1266	68.26895	1175	1277	95.44997
R_Simulate MRR9d	1168	1255	68.26895	1053	1270	95.44997
R_Simulate MRR10d	1040	1156	68.26895	1027	1201	95.44997

2.11.7 – Dataset MRR1d; Run 2; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.11.8 - Dataset MRR1d; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1d R2")
  {
    Date(Prior("latest","MRR8d.prior"));
    Date(Prior("earliest","MRR7d.prior"));
    Difference("TS2 MRR1d R2 Range", "latest", "earliest");
  };
};
```

2.11.9 - Dataset MRR1d; Run 2; Dataset Range; Table of Results

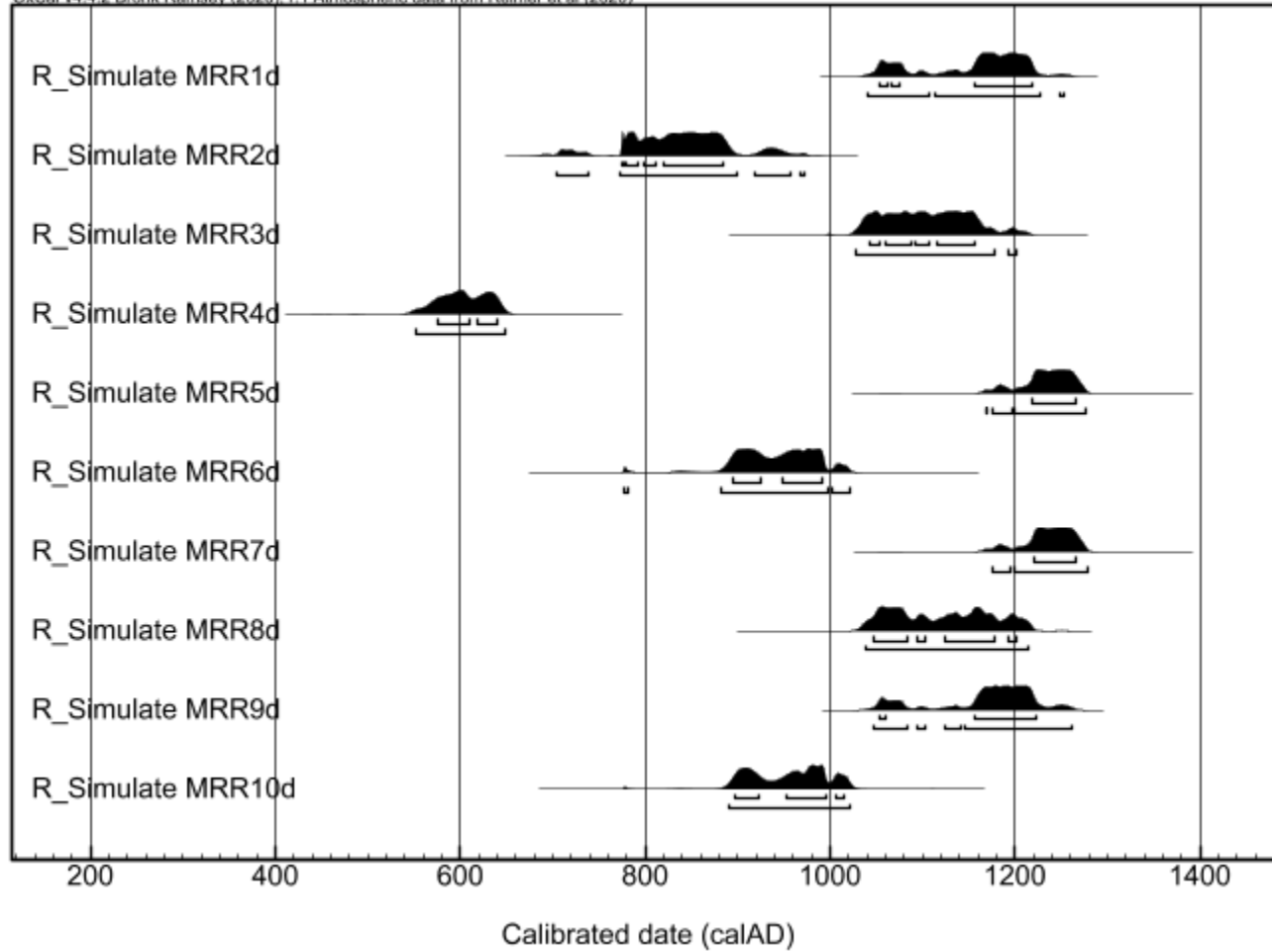
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1d R2						
Prior latest	1220	1266	68.26895	1175	1277	95.44997
Prior earliest	706	877	68.26895	679	887	95.44997
Difference TS2 MRR1d R2 Range	360	536	68.26895	323	570	95.44997

2.11.10 – Dataset MRR1d; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1d	1053	1219	68.26895	1040	1252	95.44997
R_Simulate MRR2d	775	885	68.26895	705	973	95.44997
R_Simulate MRR3d	1042	1157	68.26895	1027	1202	95.44997
R_Simulate MRR4d	576	640	68.26895	553	648	95.44997
R_Simulate MRR5d	1219	1266	68.26895	1168	1277	95.44997
R_Simulate MRR6d	894	992	68.26895	776	1021	95.44997
R_Simulate MRR7d	1221	1265	68.26895	1175	1278	95.44997
R_Simulate MRR8d	1046	1202	68.26895	1039	1213	95.44997
R_Simulate MRR9d	1054	1222	68.26895	1046	1262	95.44997
R_Simulate MRR10d	896	1014	68.26895	891	1022	95.44997

2.11.11 – Dataset MRR1d; Run 3; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.11.12 - Dataset MRR1d; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1d R3")
  {
    Date(Prior("latest","MRR7d.prior"));
    Date(Prior("earliest","MRR4d.prior"));
    Difference("TS2 MRR1d R3 Range", "latest", "earliest");
  };
};
```

2.11.13 - Dataset MRR1d; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1d R3						
Prior latest	1221	1265	68.26895	1175	1278	95.44997
Prior earliest	576	640	68.26895	553	648	95.44997
Difference TS2 MRR1d R3 Range	598	673	68.26895	552	707	95.44997

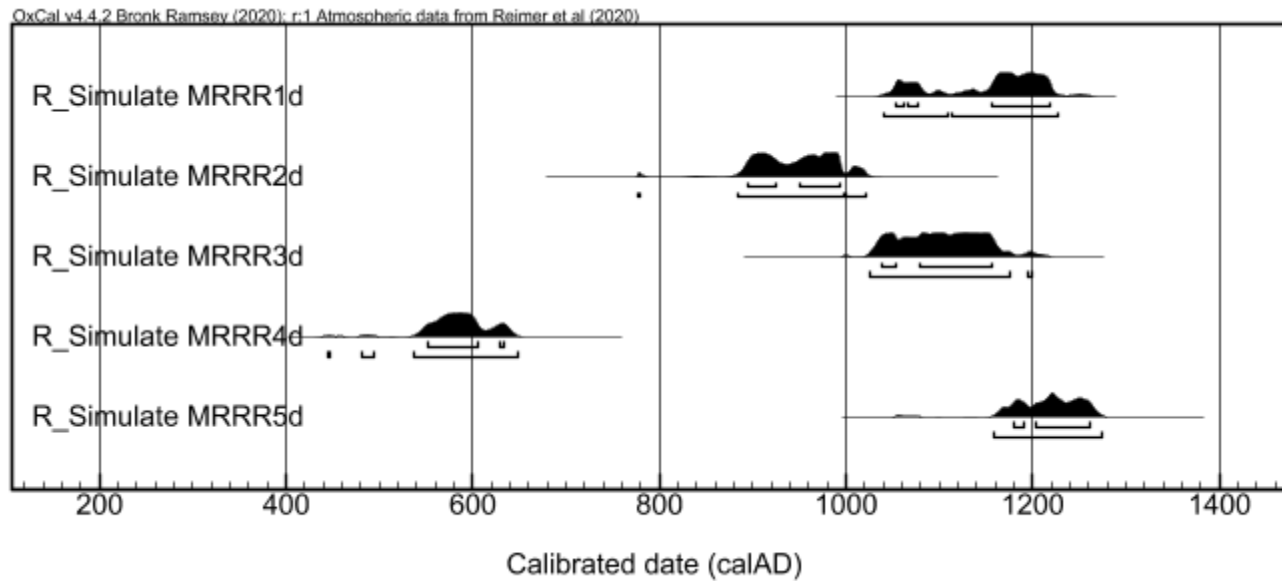
2.12.1 – Dataset MRRR1d (5 dates; 700 BP $\pm$ 35; 200 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRRR1d", 700-200*ln(rand()), 35);  
R_Simulate("MRRR2d", 700-200*ln(rand()), 35);  
R_Simulate("MRRR3d", 700-200*ln(rand()), 35);  
R_Simulate("MRRR4d", 700-200*ln(rand()), 35);  
R_Simulate("MRRR5d", 700-200*ln(rand()), 35);
```

2.12.2 – Dataset MRRR1d; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRRR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1d	1053	1218	68.26895	1040	1226	95.44997
R_Simulate MRRR2d	895	993	68.26895	777	1021	95.44998
R_Simulate MRRR3d	1038	1155	68.26895	1025	1199	95.44997
R_Simulate MRRR4d	551	634	68.26895	444	647	95.44997
R_Simulate MRRR5d	1179	1261	68.26895	1159	1273	95.44997

2.12.3 – Dataset MRRR1d Run 1; Simulated Dates; Multiple Plot



2.12.4 - Dataset MRRR1d; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1d R1")
  {
    Date(Prior("latest","MRRR5d.prior"));
    Date(Prior("earliest","MRRR4d.prior"));
    Difference("TS2 MRRR1d R1 Range", "latest", "earliest");
  };
};
```

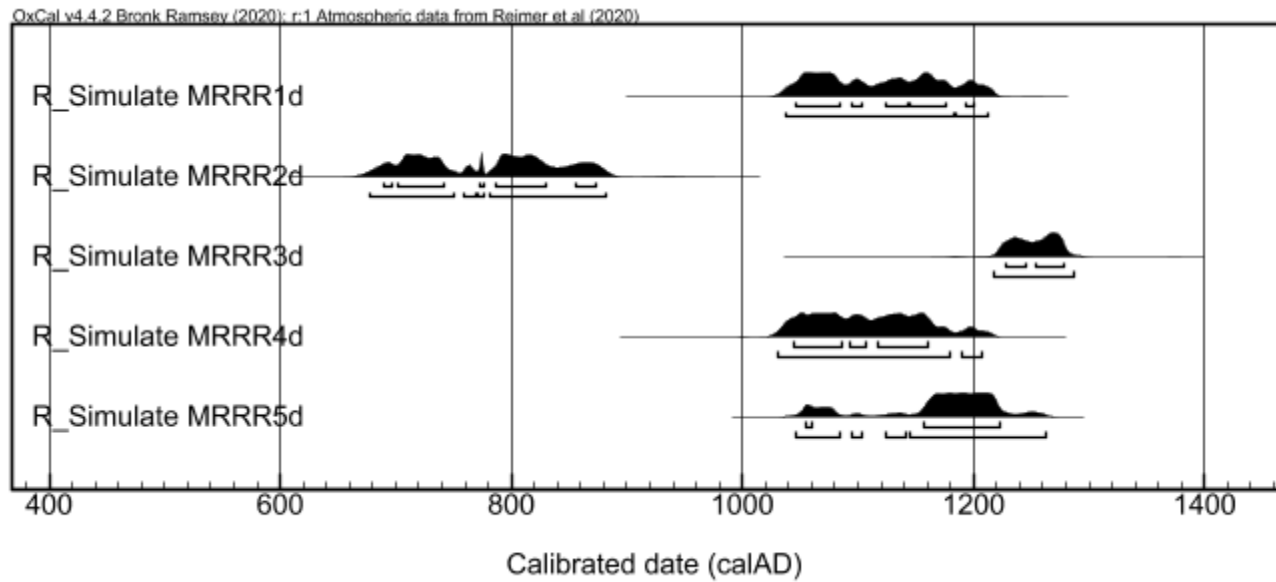
2.12.5 - Dataset MRRR1d; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1d R1						
Prior latest	1179	1261	68.26895	1159	1273	95.44997
Prior earliest	551	634	68.26895	444	647	95.44997
Difference TS2 MRRR1d R1 Range	586	679	68.26895	527	770	95.44997

2.12.6 – Dataset MRRR1d; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRRR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1d	1046	1200	68.26895	1038	1213	95.44997
R_Simulate MRRR2d	689	873	68.26895	677	882	95.44997
R_Simulate MRRR3d	1228	1277	68.26895	1217	1287	95.44997
R_Simulate MRRR4d	1044	1160	68.26895	1031	1208	95.44997
R_Simulate MRRR5d	1054	1222	68.26895	1046	1262	95.44997

2.12.7 – Dataset MRRR1d; Run 2; Simulated Dates; Multiple Plot



2.12.8 - Dataset MRRR1d; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1d R2")
  {
    Date(Prior("latest","MRRR3d.prior"));
    Date(Prior("earliest","MRRR2d.prior"));
    Difference("TS2 MRRR1d R2 Range", "latest", "earliest");
  };
};
```

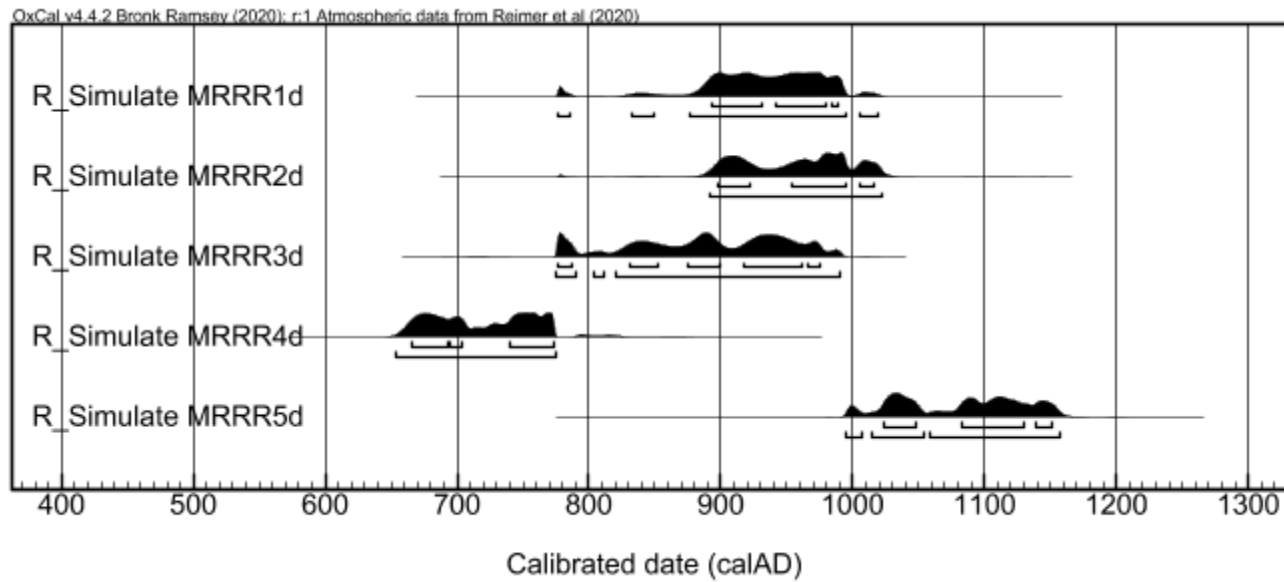
2.12.9 - Dataset MRRR1d; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1d R2						
Prior latest	1228	1277	68.26895	1217	1287	95.44997
Prior earliest	689	873	68.26895	677	882	95.44997
Difference TS2 MRRR1d R2 Range	400	560	68.26895	360	585	95.44997

2.12.10 – Dataset MRRR1d; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRRR1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1d	892	989	68.26895	775	1018	95.44997
R_Simulate MRRR2d	897	1016	68.26895	891	1022	95.44997
R_Simulate MRRR3d	775	974	68.26895	774	990	95.44997
R_Simulate MRRR4d	666	773	68.26895	653	775	95.44997
R_Simulate MRRR5d	1023	1151	68.26895	995	1158	95.44997

2.12.11 – Dataset MRRR1d; Run 3; Simulated Dates; Multiple Plot



2.12.12 - Dataset MRRR1d; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1d R3")
  {
    Date(Prior("latest","MRRR5d.prior"));
    Date(Prior("earliest","MRRR4d.prior"));
    Difference("TS2 MRRR1d R3 Range", "latest", "earliest");
  };
};
```

2.12.13 - Dataset MRRR1d; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1d R3						
Prior latest	1023	1151	68.26895	995	1158	95.44997
Prior earliest	666	773	68.26895	653	775	95.44997
Difference TS2 MRRR1d R3 Range	279	443	68.26895	248	480	95.44997

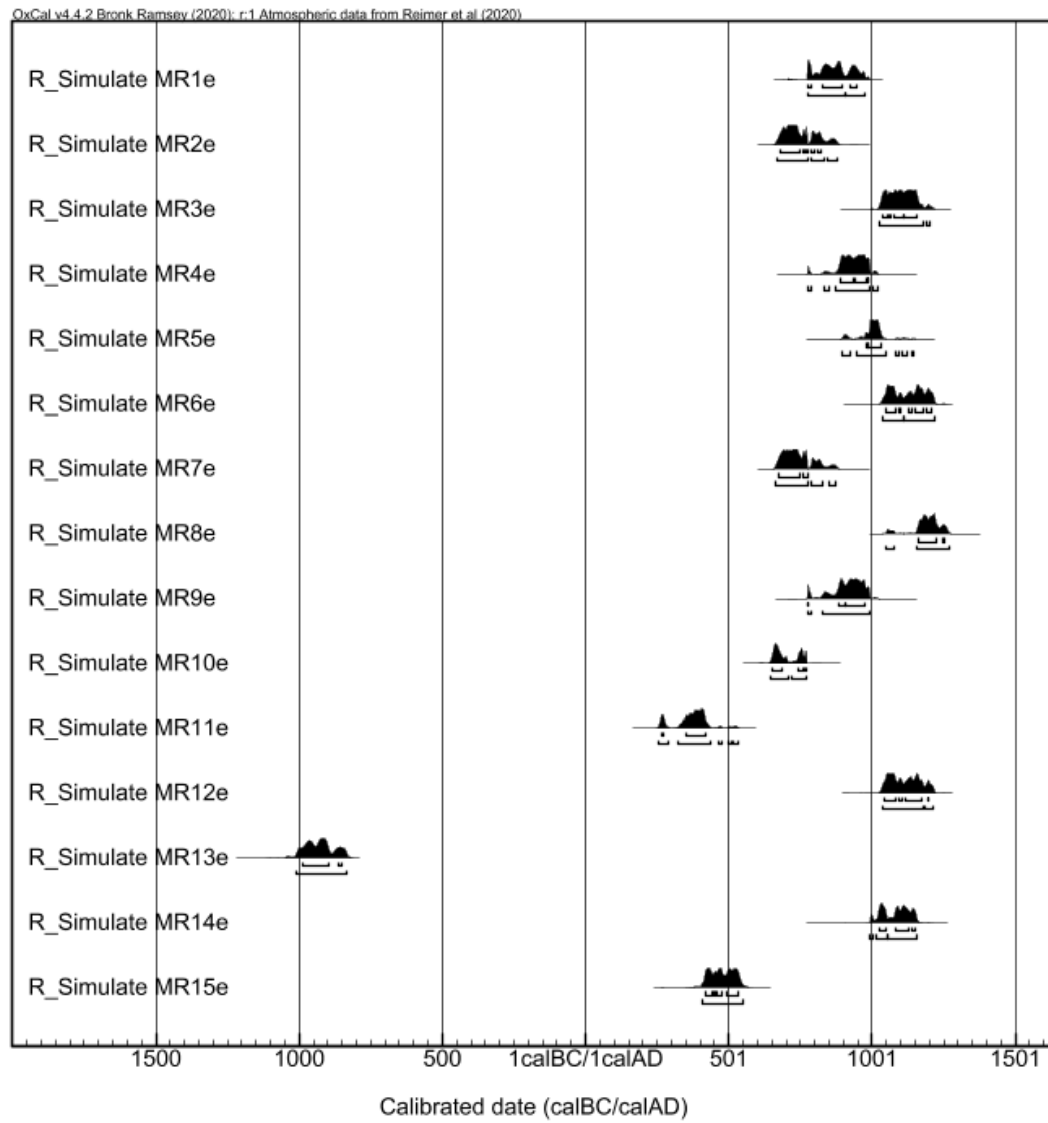
2.13.1 – Dataset MR1e (15 dates; 700 BP $\pm$ 35; 500 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MR1e", 700-500*ln(rand()), 35);  
R_Simulate("MR2e", 700-500*ln(rand()), 35);  
R_Simulate("MR3e", 700-500*ln(rand()), 35);  
R_Simulate("MR4e", 700-500*ln(rand()), 35);  
R_Simulate("MR5e", 700-500*ln(rand()), 35);  
R_Simulate("MR6e", 700-500*ln(rand()), 35);  
R_Simulate("MR7e", 700-500*ln(rand()), 35);  
R_Simulate("MR8e", 700-500*ln(rand()), 35);  
R_Simulate("MR9e", 700-500*ln(rand()), 35);  
R_Simulate("MR10e", 700-500*ln(rand()), 35);  
R_Simulate("MR11e", 700-500*ln(rand()), 35);  
R_Simulate("MR12e", 700-500*ln(rand()), 35);  
R_Simulate("MR13e", 700-500*ln(rand()), 35);  
R_Simulate("MR14e", 700-500*ln(rand()), 35);  
R_Simulate("MR15e", 700-500*ln(rand()), 35);
```

2.13.2 – Dataset MR1e; Run 1; Simulated Dates; Table of Distributions

Name: TS2 M1e Run 1	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1e	775	950	68.26895	774	976	95.44997
R_Simulate MR2e	679	820	68.26895	668	877	95.44997
R_Simulate MR3e	1039	1156	68.26895	1026	1201	95.44997
R_Simulate MR4e	892	989	68.26895	775	1018	95.44997
R_Simulate MR5e	979	1032	68.26895	894	1146	95.44997
R_Simulate MR6e	1048	1210	68.26895	1040	1217	95.44997
R_Simulate MR7e	677	774	68.26895	664	874	95.44997
R_Simulate MR8e	1162	1252	68.26895	1051	1268	95.44997
R_Simulate MR9e	777	977	68.26895	775	993	95.44997
R_Simulate MR10e	652	772	68.26895	644	774	95.44997
R_Simulate MR11e	265	417	68.26895	254	531	95.44997
R_Simulate MR12e	1045	1198	68.26895	1036	1212	95.44997
R_Simulate MR13e	-988	-849	68.26895	-1011	-833	95.44997
R_Simulate MR14e	1024	1151	68.26895	995	1158	95.44997
R_Simulate MR15e	418	535	68.26895	406	549	95.44997

2.13.3 – Dataset MR1e Run 1; Simulated Dates; Multiple Plot



2.13.4 - Dataset MR1e; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1e R1")
  {
    Date(Prior("latest","MR8e.prior"));
    Date(Prior("earliest","MR13e.prior"));
    Difference("TS2 MR1e R1 Range", "latest", "earliest");
  };
};
```

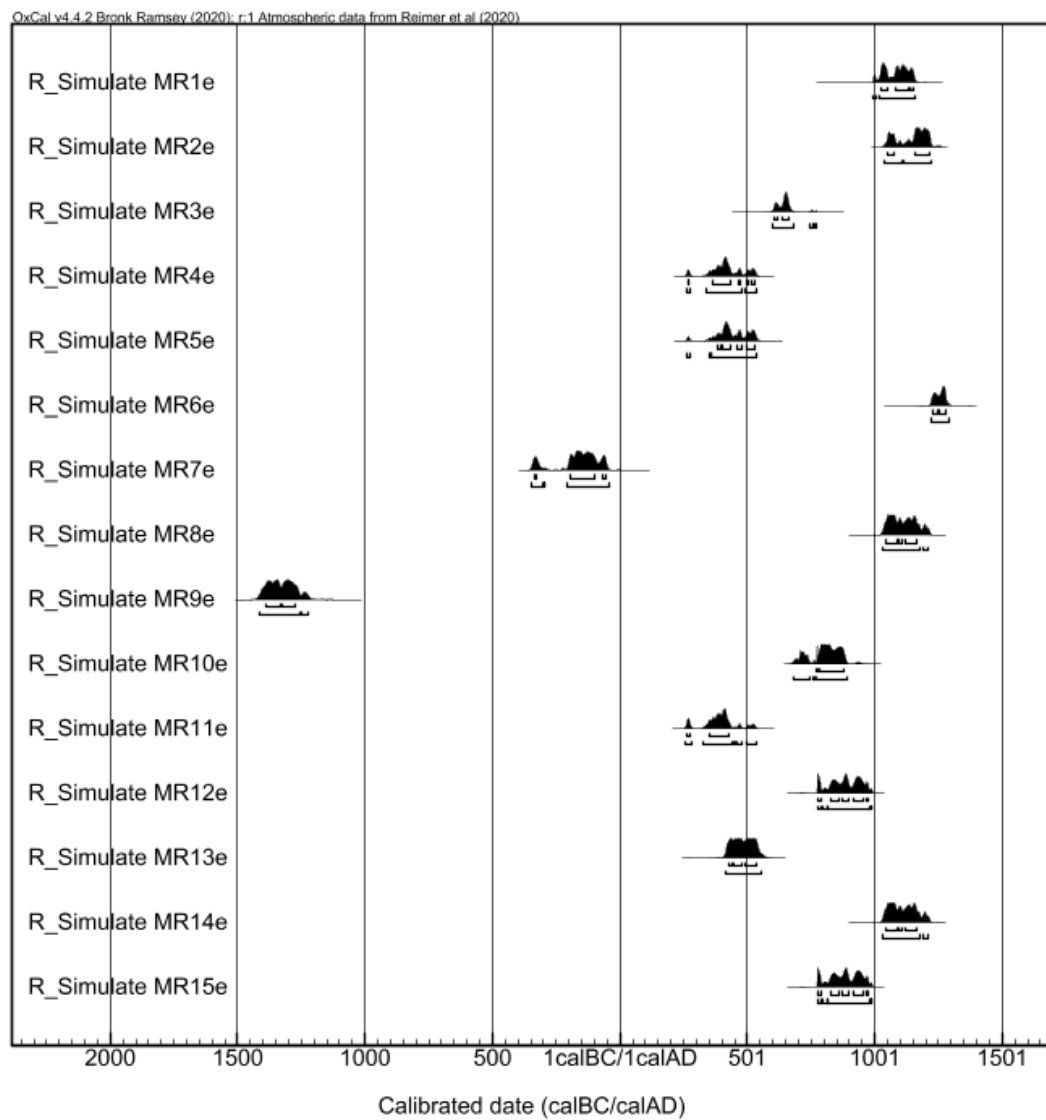
2.13.5 - Dataset MR1e; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1e R1						
Prior latest	1162	1252	68.26895	1051	1268	95.44997
Prior earliest	-988	-849	68.26895	-1011	-833	95.44997
Difference TS2 MR1e R1 Range	2062	2198	68.26895	1977	2254	95.44997

2.13.6 – Dataset MR1e; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1e	1024	1151	68.26895	995	1158	95.44997
R_Simulate MR2e	1053	1217	68.26895	1040	1223	95.44997
R_Simulate MR3e	608	665	68.26895	597	771	95.44997
R_Simulate MR4e	267	530	68.26895	261	537	95.44997
R_Simulate MR5e	382	533	68.26895	265	539	95.44997
R_Simulate MR6e	1229	1279	68.26895	1219	1290	95.44997
R_Simulate MR7e	-335	-58	68.26895	-350	-46	95.44997
R_Simulate MR8e	1044	1165	68.26895	1034	1211	95.44997
R_Simulate MR9e	-1392	-1274	68.26895	-1416	-1224	95.44997
R_Simulate MR10e	774	879	68.26895	680	891	95.44997
R_Simulate MR11e	264	426	68.26895	257	535	95.44997
R_Simulate MR12e	775	973	68.26895	774	989	95.44998
R_Simulate MR13e	429	536	68.26895	414	555	95.44997
R_Simulate MR14e	1044	1164	68.26895	1033	1210	95.44997
R_Simulate MR15e	775	972	68.26895	774	988	95.44997

2.13.7 – Dataset MR1e; Run 2; Simulated Dates; Multiple Plot



2.13.8 - Dataset MR1e; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1e R2")
  {
    Date(Prior("latest","MR6e.prior"));
    Date(Prior("earliest","MR9e.prior"));
    Difference("TS2 MR1e R2 Range", "latest", "earliest");
  };
};
```

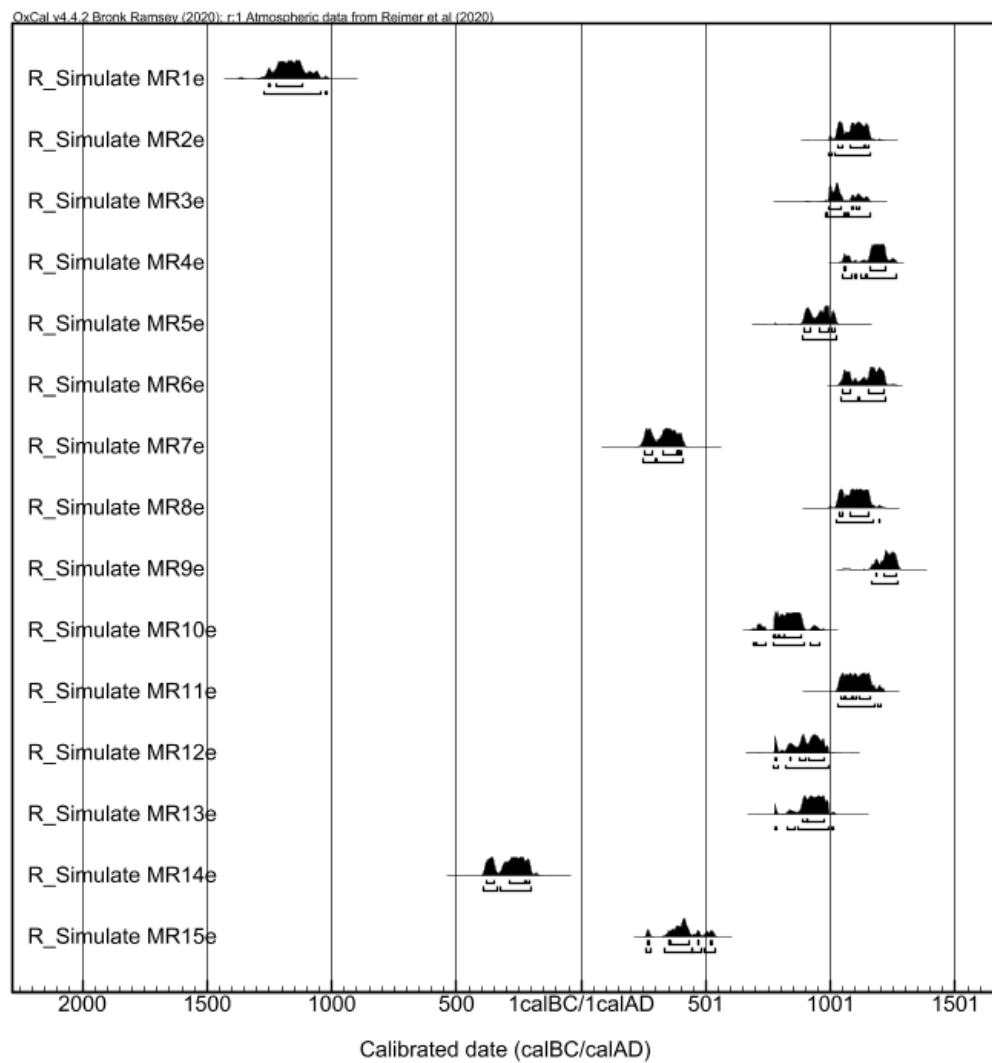
2.13.9 - Dataset MR1e; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1e R2						
Prior latest	1229	1279	68.26895	1219	1290	95.44997
Prior earliest	-1392	-1274	68.26895	-1416	-1224	95.44997
Difference TS2 MR1e R2 Range	2530	2646	68.26895	2472	2684	95.44997

2.13.10 – Dataset MR1e; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MR1e	-1256	-1116	68.26895	-1275	-1020	95.44997
R_Simulate MR2e	1029	1151	68.26895	996	1161	95.44997
R_Simulate MR3e	993	1118	68.26895	978	1156	95.44997
R_Simulate MR4e	1054	1222	68.26895	1047	1263	95.44997
R_Simulate MR5e	897	1016	68.26895	891	1022	95.44997
R_Simulate MR6e	1051	1216	68.26895	1040	1221	95.44997
R_Simulate MR7e	256	402	68.26895	247	410	95.44997
R_Simulate MR8e	1035	1154	68.26895	1022	1198	95.44997
R_Simulate MR9e	1182	1266	68.26895	1166	1272	95.44997
R_Simulate MR10e	775	882	68.26895	690	954	95.44997
R_Simulate MR11e	1043	1157	68.26895	1028	1203	95.44997
R_Simulate MR12e	776	976	68.26895	775	992	95.44997
R_Simulate MR13e	890	977	68.26895	775	1011	95.44997
R_Simulate MR14e	-379	-208	68.26895	-392	-199	95.44997
R_Simulate MR15e	265	527	68.26895	260	537	95.44997

2.13.11 – Dataset MR1e; Run 3; Simulated Dates; Multiple Plot



2.13.12 - Dataset MR1e; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MR1e R3")
  {
    Date(Prior("latest","MR9e.prior"));
    Date(Prior("earliest","MR1e.prior"));
    Difference("TS2 MR1e R3 Range", "latest", "earliest");
  };
};
```

2.13.13 - Dataset MR1e; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MR1e R3						
Prior latest	1182	1266	68.26895	1166	1272	95.44997
Prior earliest	-1256	-1116	68.26895	-1275	-1020	95.44997
Difference TS2 MR1e R3 Range	2326	2464	68.26895	2241	2521	95.44997

2.14.1 – Dataset MRR1e (10 dates; 700 BP $\pm$ 35; 500 years IA; IntCal20); Date Simulation; Model Script

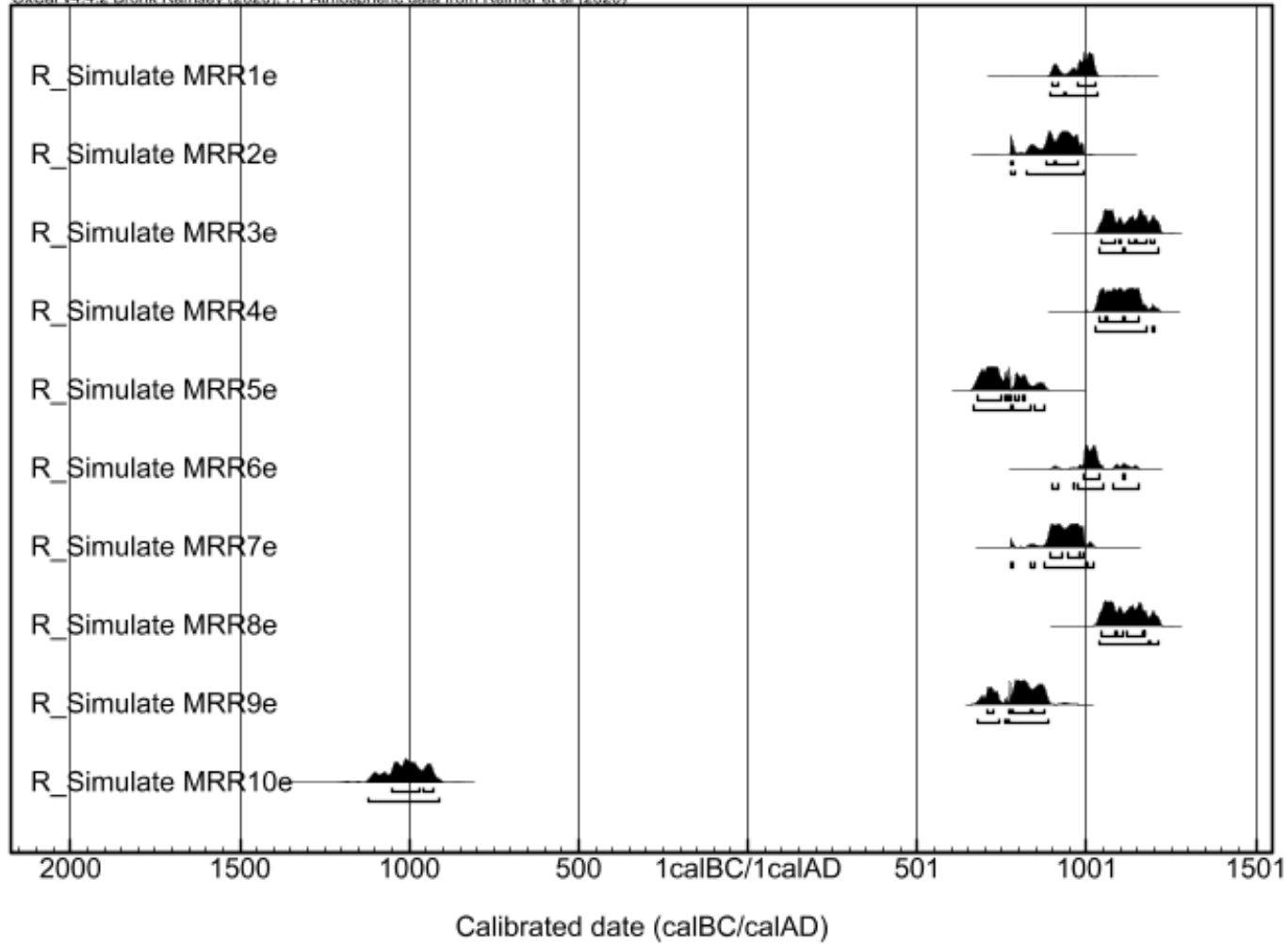
```
Options()
{
  Resolution=1 year;
  BCAD=FALSE;
  kIterations=20,000;
};
Plot()
{
};
R_Simulate("MRR1e", 700-500*ln(rand()), 35);
R_Simulate("MRR2e", 700-500*ln(rand()), 35);
R_Simulate("MRR3e", 700-500*ln(rand()), 35);
R_Simulate("MRR4e", 700-500*ln(rand()), 35);
R_Simulate("MRR5e", 700-500*ln(rand()), 35);
R_Simulate("MRR6e", 700-500*ln(rand()), 35);
R_Simulate("MRR7e", 700-500*ln(rand()), 35);
R_Simulate("MRR8e", 700-500*ln(rand()), 35);
R_Simulate("MRR9e", 700-500*ln(rand()), 35);
R_Simulate("MRR10e", 700-500*ln(rand()), 35);
```

2.14.2 – Dataset MRR1e; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1e	902	1024	68.26895	893	1032	95.44997
R_Simulate MRR2e	776	977	68.26895	775	992	95.44997
R_Simulate MRR3e	1047	1203	68.26895	1039	1215	95.44997
R_Simulate MRR4e	1040	1156	68.26895	1027	1201	95.44997
R_Simulate MRR5e	680	820	68.26895	668	877	95.44997
R_Simulate MRR6e	991	1112	68.26895	900	1153	95.44997
R_Simulate MRR7e	893	990	68.26895	775	1019	95.44997
R_Simulate MRR8e	1044	1174	68.26895	1036	1212	95.44997
R_Simulate MRR9e	707	878	68.26895	680	889	95.44997
R_Simulate MRR10e	-1051	-931	68.26895	-1119	-913	95.44997

2.14.3 – Dataset MRR1e Run 1; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020): r.1 Atmospheric data from Reimer et al. (2020)



2.14.4 - Dataset MRR1e; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1e R1")
  {
    Date(Prior("latest", "MRR3e.prior"));
    Date(Prior("earliest", "MRR10e.prior"));
    Difference("TS2 MRR1e R1 Range", "latest", "earliest");
  };
};
```

2.14.5 - Dataset MRR1e; Run 1; Dataset Range; Table of Results

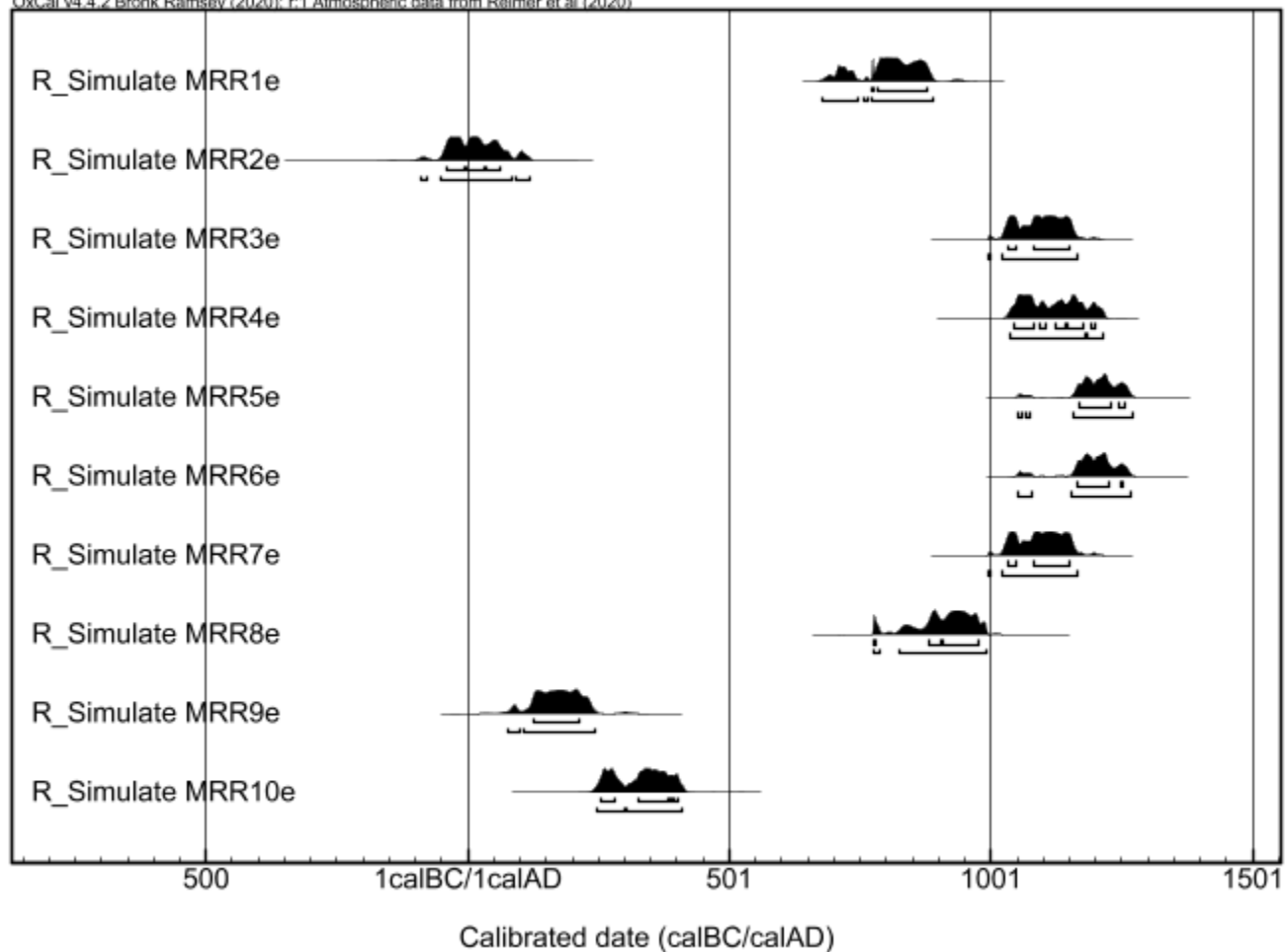
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1e R1						
Prior latest	1047	1203	68.26895	1039	1215	95.44997
Prior earliest	-1051	-931	68.26895	-1119	-913	95.44997
Difference TS2 MRR1e R1 Range	2049	2211	68.26895	1981	2286	95.44997

2.14.6 – Dataset MRR1e; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1e	774	879	68.26895	680	891	95.44997
R_Simulate MRR2e	-42	61	68.26895	-90	119	95.44997
R_Simulate MRR3e	1033	1152	68.26895	997	1165	95.44997
R_Simulate MRR4e	1046	1200	68.26895	1038	1213	95.44997
R_Simulate MRR5e	1168	1255	68.26895	1053	1270	95.44997
R_Simulate MRR6e	1164	1252	68.26895	1052	1268	95.44997
R_Simulate MRR7e	1034	1152	68.26895	997	1166	95.44997
R_Simulate MRR8e	776	977	68.26895	775	992	95.44997
R_Simulate MRR9e	129	214	68.26895	79	245	95.44997
R_Simulate MRR10e	256	402	68.26895	247	411	95.44997

2.14.7 – Dataset MRR1e; Run 2; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.14.8 - Dataset MRR1e; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1e R2")
  {
    Date(Prior("latest","MRR5e.prior"));
    Date(Prior("earliest","MRR2e.prior"));
    Difference("TS2 MRR1e R2 Range", "latest", "earliest");
  };
};
```

2.14.9 - Dataset MRR1e; Run 2; Dataset Range; Table of Results

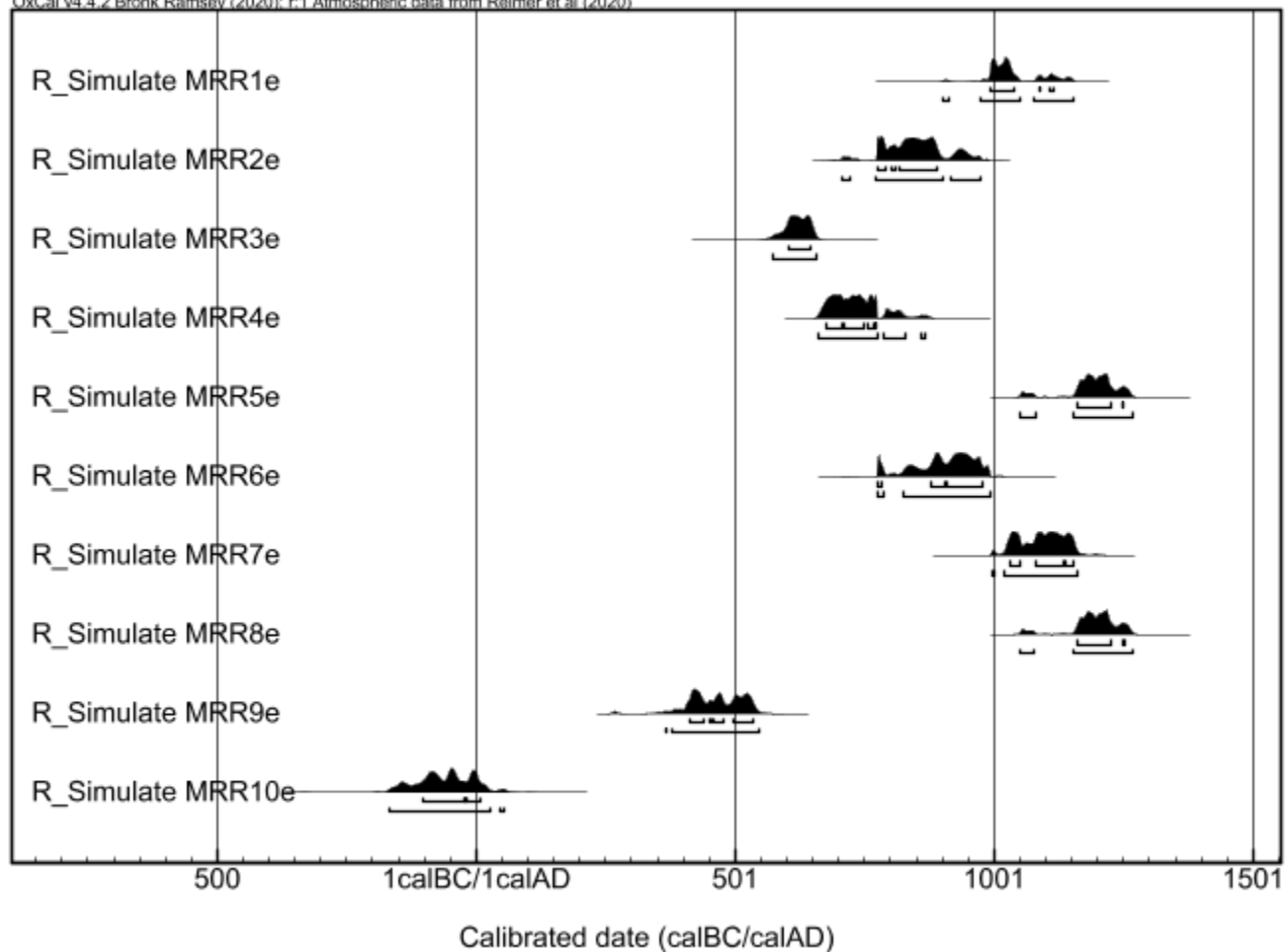
Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1e R2						
Prior latest	1168	1255	68.26895	1053	1270	95.44997
Prior earliest	-42	61	68.26895	-90	119	95.44997
Difference TS2 MRR1e R2 Range	1135	1257	68.26895	1047	1310	95.44997

2.14.10 – Dataset MRR1e; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRR1e	992	1115	68.26895	902	1155	95.44998
R_Simulate MRR2e	775	890	68.26895	708	975	95.44997
R_Simulate MRR3e	604	647	68.26895	575	658	95.44997
R_Simulate MRR4e	678	773	68.26895	660	869	95.44997
R_Simulate MRR5e	1162	1251	68.26895	1050	1268	95.44997
R_Simulate MRR6e	776	977	68.26895	775	992	95.44997
R_Simulate MRR7e	1031	1152	68.26895	997	1162	95.44997
R_Simulate MRR8e	1163	1252	68.26895	1051	1268	95.44997
R_Simulate MRR9e	412	534	68.26895	366	547	95.44997
R_Simulate MRR10e	-104	7	68.26895	-168	56	95.44997

2.14.11 – Dataset MRR1e; Run 3; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020); r.1 Atmospheric data from Reimer et al (2020)



2.14.12 - Dataset MRR1e; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRR1e R3")
  {
    Date(Prior("latest","MRR8e.prior"));
    Date(Prior("earliest","MRR10e.prior"));
    Difference("TS2 MRR1e R3 Range", "latest", "earliest");
  };
};
```

2.14.13 - Dataset MRR1e; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRR1e R3						
Prior latest	1163	1252	68.26895	1051	1268	95.44997
Prior earliest	-104	7	68.26895	-168	56	95.44997
Difference TS2 MRR1e R3 Range	1188	1328	68.26895	1101	1397	95.44997

2.15.1 – Dataset MRRR1e (5 dates; 700 BP $\pm$ 35; 500 years IA; IntCal20); Date Simulation; Model Script

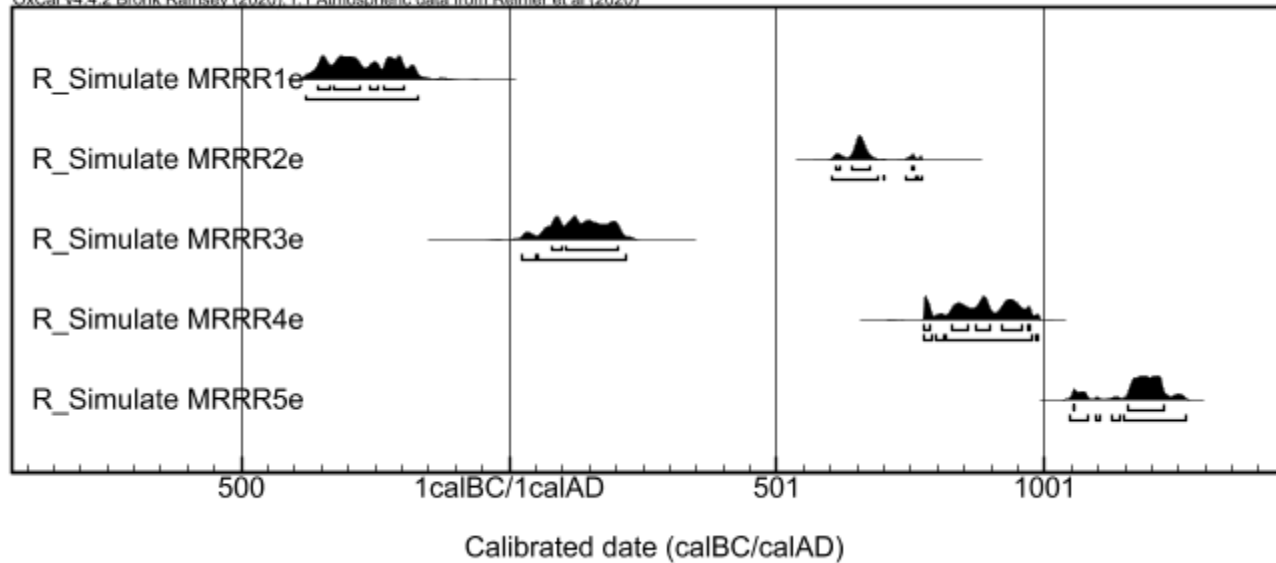
```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("MRRR1e", 700-500*ln(rand()), 35);  
R_Simulate("MRRR2e", 700-500*ln(rand()), 35);  
R_Simulate("MRRR3e", 700-500*ln(rand()), 35);  
R_Simulate("MRRR4e", 700-500*ln(rand()), 35);  
R_Simulate("MRRR5e", 700-500*ln(rand()), 35);
```

2.15.2 – Dataset MRRR1e; Run 1; Simulated Dates; Table of Distributions

Name: TS2 R1 MRRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1e	-357	-198	68.26895	-379	-169	95.44997
R_Simulate MRRR2e	610	755	68.26895	602	772	95.44997
R_Simulate MRRR3e	79	204	68.26895	25	217	95.44997
R_Simulate MRRR4e	775	973	68.26895	774	989	95.44998
R_Simulate MRRR5e	1055	1223	68.26895	1047	1264	95.44997

2.15.3 – Dataset MRRR1e; Run 1; Simulated Dates; Multiple Plot

OxCal v4.4.2 Bronk Ramsey (2020): r1 Atmospheric data from Reimer et al (2020)



2.15.4 - Dataset MRRR1e; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1e R1")
  {
    Date(Prior("latest","MRRR5e.prior"));
    Date(Prior("earliest","MRRR1e.prior"));
    Difference("TS2 MRRR1e R1 Range", "latest", "earliest");
  };
};
```

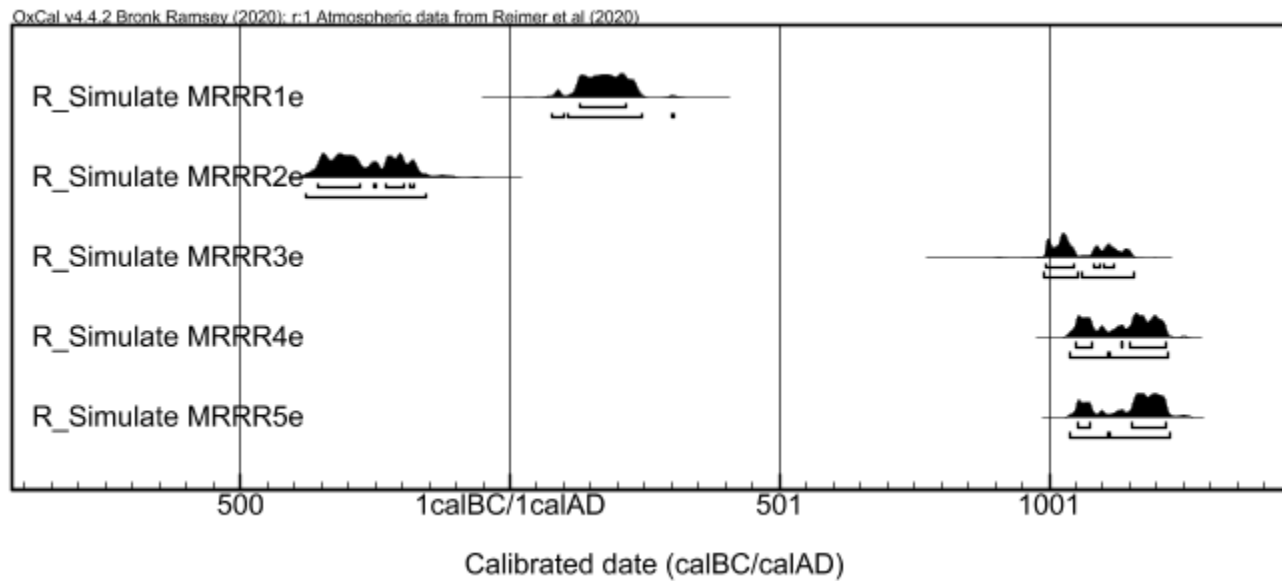
2.15.5 - Dataset MRRR1e; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1e R1						
Prior latest	1055	1223	68.26895	1047	1264	95.44997
Prior earliest	-357	-198	68.26895	-379	-169	95.44997
Difference TS2 MRRR1e R1 Range	1374	1537	68.26895	1268	1587	95.44997

2.15.6 – Dataset MRRR1e; Run 2; Simulated Dates; Table of Distributions

Name: TS2 R2 MRRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1e	129	217	68.26895	80	303	95.44997
R_Simulate MRRR2e	-356	-177	68.26895	-380	-158	95.44997
R_Simulate MRRR3e	994	1123	68.26895	991	1157	95.44997
R_Simulate MRRR4e	1049	1216	68.26895	1040	1220	95.44997
R_Simulate MRRR5e	1053	1218	68.26895	1040	1225	95.44997

2.15.7 – Dataset MRRR1e; Run 2; Simulated Dates; Multiple Plot



2.15.8 - Dataset MRRR1e; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1e R2")
  {
    Date(Prior("latest","MRRR5e.prior"));
    Date(Prior("earliest","MRRR2e.prior"));
    Difference("TS2 MRRR1e R2 Range", "latest", "earliest");
  };
};
```

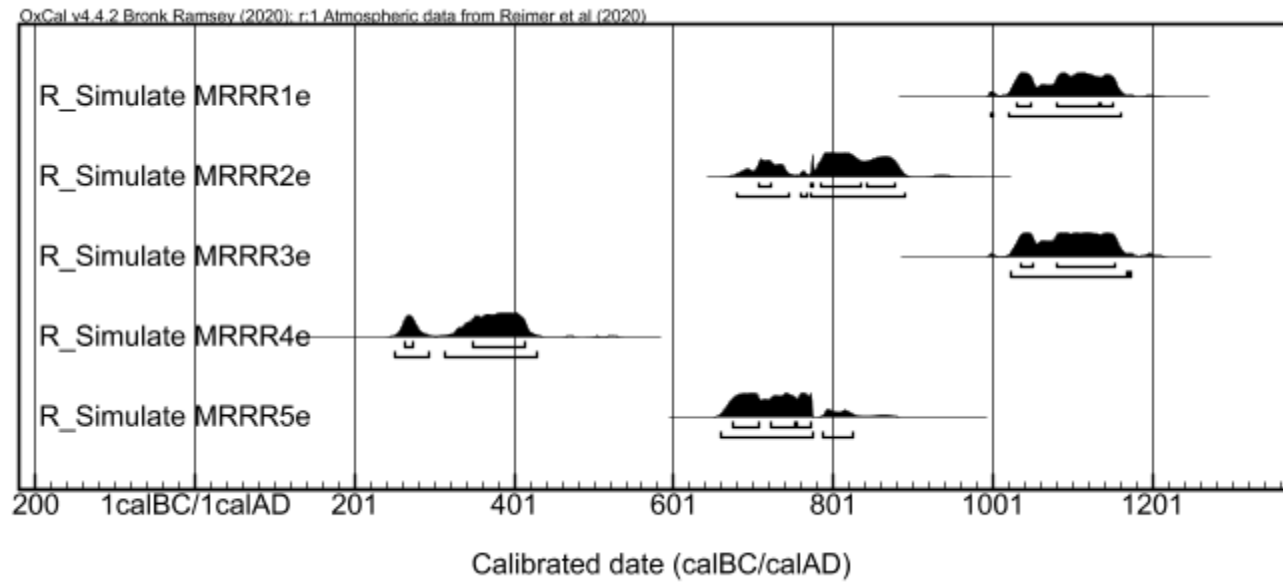
2.15.9 - Dataset MRRR1e; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1e R2						
Prior latest	1053	1218	68.26895	1040	1225	95.44997
Prior earliest	-356	-177	68.26895	-380	-158	95.44997
Difference TS2 MRRR1e R2 Range	1350	1526	68.26895	1245	1569	95.44997

2.15.10 – Dataset MRRR1e; Run 3; Simulated Dates; Table of Distributions

Name: TS2 R3 MRRR1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate MRRR1e	1031	1152	68.26895	997	1162	95.44997
R_Simulate MRRR2e	708	878	68.26895	680	889	95.44997
R_Simulate MRRR3e	1035	1153	68.26895	1022	1174	95.44997
R_Simulate MRRR4e	263	413	68.26895	250	430	95.44997
R_Simulate MRRR5e	675	773	68.26895	659	825	95.44997

2.15.11 – Dataset MRRR1e; Run 3; Simulated Dates; Multiple Plot



2.15.12 - Dataset MRRR1e; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS2 MRRR1e R3")
  {
    Date(Prior("latest","MRRR3e.prior"));
    Date(Prior("earliest","MRRR4e.prior"));
    Difference("TS2 MRRR1e R3 Range", "latest", "earliest");
  };
};
```

2.15.13 - Dataset MRRR1e; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS2 MRRR1e R3						
Prior latest	1035	1153	68.26895	1022	1174	95.44997
Prior earliest	263	413	68.26895	250	430	95.44997
Difference TS2 MRRR1e R3 Range	662	798	68.26895	621	885	95.44997

2.16.1 – Dataset MR1a; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MR1a");
    Phase()
    {
      Date(Prior("MR1a", "MR1a.prior"));
      Date(Prior("MR2a", "MR2a.prior"));
      Date(Prior("MR3a", "MR3a.prior"));
      Date(Prior("MR4a", "MR4a.prior"));
      Date(Prior("MR5a", "MR5a.prior"));
      Date(Prior("MR6a", "MR6a.prior"));
      Date(Prior("MR7a", "MR7a.prior"));
      Date(Prior("MR8a", "MR8a.prior"));
      Date(Prior("MR9a", "MR9a.prior"));
      Date(Prior("MR10a", "MR10a.prior"));
      Date(Prior("MR11a", "MR11a.prior"));
      Date(Prior("MR12a", "MR12a.prior"));
      Date(Prior("MR13a", "MR13a.prior"));
      Date(Prior("MR14a", "MR14a.prior"));
      Date(Prior("MR15a", "MR15a.prior"));
      Last("MR1a R1 Tua");
    };
    Boundary("TS2 MR1a Tau R1");
  };
};
```


2.16.2 – Dataset MR1a; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1a R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.1 Aoverall 97.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1a							1225	1248	68.26895	1216	1260	95.44997					98.2
Phase																	
Prior MR1a	1054	1221	68.26895	1046	1261	95.44997	1207	1260	68.26895	1175	1265	95.44997		70.1			99
Prior MR2a	1229	1278	68.26895	1218	1288	95.44997	1229	1257	68.26895	1222	1270	95.44997		96.1			99.1
Prior MR3a	1228	1275	68.26895	1183	1286	95.44997	1229	1257	68.26895	1221	1270	95.44997		105.1			99
Prior MR4a	1220	1266	68.26895	1175	1278	95.44997	1229	1258	68.26895	1217	1270	95.44997		119.8			99.2
Prior MR5a	1219	1266	68.26895	1168	1277	95.44997	1229	1258	68.26895	1215	1270	95.44997		120.7			99.2
Prior MR6a	1220	1266	68.26895	1175	1277	95.44997	1228	1258	68.26895	1216	1270	95.44997		120.2			99.3
Prior MR7a	1224	1266	68.26895	1178	1279	95.44997	1229	1258	68.26895	1219	1269	95.44997		116.2			99
Prior MR8a	1158	1223	68.26895	1048	1265	95.44997	1210	1260	68.26895	1179	1265	95.44997		71.5			99.2
Prior MR9a	1222	1265	68.26895	1177	1278	95.44997	1228	1258	68.26895	1218	1270	95.44997		118.3			99.3
Prior MR10a	1224	1266	68.26895	1178	1279	95.44997	1229	1258	68.26895	1219	1269	95.44997		116.2			99
Prior MR11a	1230	1282	68.26895	1221	1293	95.44997	1228	1257	68.26895	1223	1271	95.44997		82.5			99
Prior MR12a	1183	1267	68.26895	1167	1273	95.44997	1228	1258	68.26895	1210	1270	95.44997		121.7			98.9
Prior MR13a	1226	1268	68.26895	1179	1281	95.44997	1228	1257	68.26895	1220	1269	95.44997		112.4			98.9
Prior MR14a	1230	1281	68.26895	1220	1293	95.44997	1228	1257	68.26895	1223	1271	95.44997		83.9			99.3
Prior MR15a	1051	1216	68.26895	1040	1221	95.44997	1193	1259	68.26895	1162	1264	95.44997		69			98.8

Last MR1a R1 Tua							1244	1270	68.26895	1230	1276	95.44997					98.5
Boundary TS2 MR1a Tau R1							1244	1271	68.26895	1230	1278	95.44997					97.3

2.16.3 – Dataset MR1a; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 72.3 Aoverall 68.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1a							1232	1256	68.26895	1223	1263	95.44997					98.6
Phase																	
Prior MR1a	1163	1252	68.26895	1051	1268	95.44997	1229	1263	68.26895	1200	1269	95.44997		74			99.2
Prior MR2a	1176	1260	68.26895	1053	1273	95.44997	1233	1263	68.26895	1208	1269	95.44997		98.4			99.1
Prior MR3a	1178	1261	68.26895	1158	1273	95.44997	1232	1263	68.26895	1211	1270	95.44997		107.9			99.5
Prior MR4a	1264	1298	68.26895	1225	1380	95.44997	1231	1265	68.26895	1225	1273	95.44997		37.5			99.2
Prior MR5a	1225	1267	68.26895	1179	1280	95.44997	1234	1262	68.26895	1222	1270	95.44997		116			99.3
Prior MR6a	1227	1271	68.26895	1180	1283	95.44997	1234	1262	68.26895	1223	1270	95.44997		111.9			99.4
Prior MR7a	1226	1267	68.26895	1179	1280	95.44997	1234	1262	68.26895	1222	1270	95.44997		115.6			99.5
Prior MR8a	1228	1275	68.26895	1182	1286	95.44997	1234	1262	68.26895	1223	1270	95.44997		108			99.3
Prior MR9a	1217	1267	68.26895	1168	1275	95.44997	1234	1262	68.26895	1219	1269	95.44997		122.7			99.6
Prior MR10a	1217	1267	68.26895	1168	1275	95.44997	1235	1262	68.26895	1219	1269	95.44997		122.6			99.5
Prior MR11a	1226	1270	68.26895	1180	1282	95.44997	1234	1262	68.26895	1223	1270	95.44997		112.8			99.4
Prior MR12a	1226	1268	68.26895	1179	1281	95.44997	1234	1262	68.26895	1223	1270	95.44997		114.3			99.4
Prior MR13a	1055	1223	68.26895	1047	1264	95.44997	1227	1263	68.26895	1190	1268	95.44997		55			99.4
Prior MR14a	1264	1298	68.26895	1225	1380	95.44997	1231	1265	68.26895	1225	1273	95.44997		37.4			99.1

Prior MR15a	1218	1266	68.26895	1168	1276	95.44997	1234	1262	68.26895	1220	1269	95.44997		122.3			99.6
Last MR1a R2 Tua							1244	1271	68.26895	1230	1276	95.44997					98.6
Boundary TS2 MR1a Tau R2							1244	1272	68.26895	1230	1279	95.44997					97.7

2.16.4 – Dataset MR1a; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1a R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.9 Aoverall 99.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1a							1233	1255	68.26895	1223	1261	95.44997					98.5
Phase																	
Prior MR1a	1218	1266	68.26895	1168	1276	95.44997	1234	1260	68.26895	1220	1266	95.44997		124.9			99.2
Prior MR2a	1223	1266	68.26895	1178	1279	95.44997	1235	1260	68.26895	1222	1266	95.44997		119.3			99.1
Prior MR3a	1178	1260	68.26895	1054	1273	95.44997	1230	1261	68.26895	1212	1267	95.44997		106.8			99.3
Prior MR4a	1177	1260	68.26895	1054	1273	95.44997	1229	1261	68.26895	1212	1267	95.44997		104.8			99.6
Prior MR5a	1226	1267	68.26895	1179	1280	95.44997	1234	1260	68.26895	1222	1266	95.44997		116			99.4
Prior MR6a	1227	1272	68.26895	1181	1283	95.44997	1234	1260	68.26895	1223	1266	95.44997		109.9			99.2
Prior MR7a	1266	1298	68.26895	1226	1382	95.44997	1231	1259	68.26895	1224	1268	95.44997		24.1			99
Prior MR8a	1223	1266	68.26895	1178	1279	95.44997	1234	1260	68.26895	1222	1266	95.44997		119.3			99.2
Prior MR9a	1226	1270	68.26895	1180	1282	95.44997	1234	1260	68.26895	1222	1266	95.44997		112.5			99.2
Prior MR10a	1183	1267	68.26895	1167	1273	95.44997	1235	1261	68.26895	1219	1267	95.44997		124.7			99
Prior MR11a	1221	1265	68.26895	1176	1278	95.44997	1234	1260	68.26895	1221	1266	95.44997		122.2			99.4

Prior MR12a	1055	1222	68.26895	1047	1263	95.44997	1226	1261	68.26895	1193	1266	95.44997		51			99.2
Prior MR13a	1182	1266	68.26895	1167	1273	95.44997	1231	1261	68.26895	1218	1267	95.44997		124.4			99.4
Prior MR14a	1220	1266	68.26895	1175	1277	95.44997	1234	1260	68.26895	1221	1266	95.44997		123.4			99.2
Prior MR15a	1224	1266	68.26895	1179	1279	95.44997	1234	1260	68.26895	1222	1266	95.44997		117.7			99.2
Last MR1a R3 Tau							1243	1267	68.26895	1228	1271	95.44997					99.2
Boundary TS2 MR1a Tau R3							1243	1267	68.26895	1228	1273	95.44997					98.8

2.17.1 – Dataset MR1a; Exponential Prior/10-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1),"t");
  Sequence()
  {
    Tau_Boundary("Model MR1a");
    Phase()
    {
      Date(Prior("MR1a","MR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2a","MR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3a","MR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4a","MR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5a","MR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
    }
  }
};
```

```

Date(Prior("MR6a","MR6a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR7a","MR7a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR8a","MR8a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR9a","MR9a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR10a","MR10a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR11a","MR11a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR12a","MR12a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR13a","MR13a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR14a","MR14a.prior"))
{

```

```

Outlier("Charcoal", 1);
};
Date(Prior("MR15a","MR15a.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MR1a R1 TmodC");
};
Boundary("TS2 MR1a Tau Mod Char R1");
};
};

```

2.17.2 – Dataset MR1a; Run 1; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a TmodC R1	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.5 Aoverall 99.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-15	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.788	68.26895	1.34E-17	0.979	95.44997		100			99.6
Sequence																	
Tau_Boundary Model MR1a							1229	1252	68.26895	1219	1263	95.44997					98.6
Phase																	

Prior MR1a	1054	1221	68.26895	1046	1261	95.44997	1213	1262	68.26895	1179	1269	95.44997		71.6			98.7
Prior MR2a	1229	1278	68.26895	1218	1288	95.44997	1232	1261	68.26895	1225	1273	95.44997		96.3			98.8
Prior MR3a	1228	1275	68.26895	1183	1286	95.44997	1233	1261	68.26895	1224	1273	95.44997		105.3			99.2
Prior MR4a	1220	1266	68.26895	1175	1278	95.44997	1232	1262	68.26895	1219	1273	95.44997		119.5			98.8
Prior MR5a	1219	1266	68.26895	1168	1277	95.44997	1232	1262	68.26895	1218	1273	95.44997		120.5			99.3
Prior MR6a	1220	1266	68.26895	1175	1277	95.44997	1233	1262	68.26895	1219	1273	95.44997		119.9			99.5
Prior MR7a	1224	1266	68.26895	1178	1279	95.44997	1233	1261	68.26895	1221	1273	95.44997		115.9			98.9
Prior MR8a	1158	1223	68.26895	1048	1265	95.44997	1217	1262	68.26895	1182	1270	95.44997		72.8			99.1
Prior MR9a	1222	1265	68.26895	1177	1278	95.44997	1233	1262	68.26895	1220	1273	95.44997		118			98.8
Prior MR10a	1224	1266	68.26895	1178	1279	95.44997	1233	1262	68.26895	1221	1273	95.44997		115.9			99
Prior MR11a	1230	1282	68.26895	1221	1293	95.44997	1232	1261	68.26895	1225	1274	95.44997		83			98.8
Prior MR12a	1183	1267	68.26895	1167	1273	95.44997	1232	1262	68.26895	1213	1274	95.44997		121.4			99.1
Prior MR13a	1226	1268	68.26895	1179	1281	95.44997	1233	1261	68.26895	1223	1273	95.44997		112.4			98.9
Prior MR14a	1230	1281	68.26895	1220	1293	95.44997	1232	1261	68.26895	1225	1274	95.44997		84.5			99.1
Prior MR15a	1051	1216	68.26895	1040	1221	95.44997	1200	1261	68.26895	1165	1268	95.44997		70.8			99
Last MR1a R1 TmodC							1247	1273	68.26895	1233	1279	95.44997					98.4
Boundary TS2 MR1a Tau Mod Char R1							1247	1274	68.26895	1233	1282	95.44997					97.1

2.17.3 – Dataset MR1a; Run 2; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 76.3 Aoverall 73.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-15	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.646	68.26895	1.34E-17	0.944	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MR1a							1237	1260	68.26895	1226	1267	95.44997					99.4
Phase																	
Prior MR1a	1163	1252	68.26895	1051	1268	95.44997	1235	1266	68.26895	1203	1274	95.44997		75.2			99.3
Prior MR2a	1176	1260	68.26895	1053	1273	95.44997	1237	1266	68.26895	1211	1274	95.44997		99.1			99.2
Prior MR3a	1178	1261	68.26895	1158	1273	95.44997	1237	1266	68.26895	1215	1274	95.44997		108.2			99
Prior MR4a	1264	1298	68.26895	1225	1380	95.44997	1236	1269	68.26895	1228	1278	95.44997		40.6			99.1
Prior MR5a	1225	1267	68.26895	1179	1280	95.44997	1238	1266	68.26895	1225	1274	95.44997		115.6			99.2
Prior MR6a	1227	1271	68.26895	1180	1283	95.44997	1238	1266	68.26895	1226	1274	95.44997		111.6			99.3
Prior MR7a	1226	1267	68.26895	1179	1280	95.44997	1238	1266	68.26895	1226	1274	95.44997		115.2			98.6
Prior MR8a	1228	1275	68.26895	1182	1286	95.44997	1238	1266	68.26895	1226	1274	95.44997		108			99.3
Prior MR9a	1217	1267	68.26895	1168	1275	95.44997	1238	1266	68.26895	1222	1274	95.44997		122.2			99.2
Prior MR10a	1217	1267	68.26895	1168	1275	95.44997	1238	1266	68.26895	1222	1274	95.44997		122.1			99
Prior MR11a	1226	1270	68.26895	1180	1282	95.44997	1238	1266	68.26895	1226	1274	95.44997		112.6			99.3
Prior MR12a	1226	1268	68.26895	1179	1281	95.44997	1238	1266	68.26895	1226	1274	95.44997		113.9			99.2
Prior MR13a	1055	1223	68.26895	1047	1264	95.44997	1230	1267	68.26895	1193	1273	95.44997		57.2			98.8
Prior MR14a	1264	1298	68.26895	1225	1380	95.44997	1236	1269	68.26895	1228	1277	95.44997		40.6			99
Prior MR15a	1218	1266	68.26895	1168	1276	95.44997	1238	1266	68.26895	1222	1274	95.44997		121.8			99.4
Last MR1a R2 TmodC							1248	1275	68.26895	1234	1281	95.44997					98.7
Boundary TS2 MR1a TmodC R2							1248	1276	68.26895	1234	1283	95.44997					97.4

2.17.4 – Dataset MR1a; Run 3; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.1 Aoverall 101.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-14	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.688	68.26895	1.34E-17	0.936	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MR1a							1236	1259	68.26895	1226	1265	95.44997					98.5
Phase																	
Prior MR1a	1218	1266	68.26895	1168	1276	95.44997	1238	1264	68.26895	1223	1270	95.44997		124.4			99.1
Prior MR2a	1223	1266	68.26895	1178	1279	95.44997	1237	1264	68.26895	1224	1270	95.44997		118.9			99
Prior MR3a	1178	1260	68.26895	1054	1273	95.44997	1237	1264	68.26895	1216	1271	95.44997		106.8			98.9
Prior MR4a	1177	1260	68.26895	1054	1273	95.44997	1237	1264	68.26895	1216	1271	95.44997		104.9			98.6
Prior MR5a	1226	1267	68.26895	1179	1280	95.44997	1238	1264	68.26895	1225	1270	95.44997		115.8			99.4
Prior MR6a	1227	1272	68.26895	1181	1283	95.44997	1238	1263	68.26895	1225	1270	95.44997		110			99.2
Prior MR7a	1266	1298	68.26895	1226	1382	95.44997	1236	1263	68.26895	1227	1273	95.44997		26			99
Prior MR8a	1223	1266	68.26895	1178	1279	95.44997	1238	1263	68.26895	1225	1270	95.44997		118.9			98.7
Prior MR9a	1226	1270	68.26895	1180	1282	95.44997	1238	1263	68.26895	1225	1270	95.44997		112.4			99.3
Prior MR10a	1183	1267	68.26895	1167	1273	95.44997	1237	1264	68.26895	1221	1270	95.44997		124.2			98.9

Prior MR11a	1221	1265	68.26895	1176	1278	95.44997	1237	1264	68.26895	1224	1270	95.44997		121.6			99.2
Prior MR12a	1055	1222	68.26895	1047	1263	95.44997	1231	1265	68.26895	1198	1270	95.44997		53.6			98.6
Prior MR13a	1182	1266	68.26895	1167	1273	95.44997	1238	1264	68.26895	1221	1271	95.44997		123.9			99.3
Prior MR14a	1220	1266	68.26895	1175	1277	95.44997	1238	1264	68.26895	1223	1270	95.44997		122.8			99.1
Prior MR15a	1224	1266	68.26895	1179	1279	95.44997	1238	1263	68.26895	1225	1270	95.44997		117.3			98.8
Last MR1a R3 TmodC							1246	1270	68.26895	1232	1276	95.44997					98.7
Boundary TS2 MR1a Tau mod Char R3							1247	1271	68.26895	1232	1277	95.44997					97.5

2.18.1 – Dataset MR1a; Uniform Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MR1a");
    Phase()
    {
      Date(Prior("MR1a","MR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2a","MR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3a","MR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4a","MR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5a","MR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6a","MR6a.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7a","MR7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8a","MR8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9a","MR9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10a","MR10a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11a","MR11a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12a","MR12a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13a","MR13a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14a","MR14a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15a","MR15a.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Last("MR1a R2 Char");
};
Boundary("TS2 MR1a Char R2");
};
};

```

2.18.2 – Dataset MR1a; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.8 Aoverall 89.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-9	1	68.26895	-38	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.048	1.212	68.26895	3.60E-17	1.455	95.44997		100			99.4
Sequence																	
Boundary Model MR1a							1215	1253	68.26895	1193	1269	95.44997					98.5
Phase																	
Prior MR1a	1054	1221	68.26895	1046	1261	95.44997	1227	1264	68.26895	1207	1276	95.44997		65.2			99.6
Prior MR2a	1229	1278	68.26895	1218	1288	95.44997	1233	1264	68.26895	1224	1278	95.44997		95.4			99.8
Prior MR3a	1228	1275	68.26895	1183	1286	95.44997	1233	1264	68.26895	1224	1277	95.44997		104.2			99.8
Prior MR4a	1220	1266	68.26895	1175	1278	95.44997	1233	1264	68.26895	1221	1277	95.44997		119.5			99.8
Prior MR5a	1219	1266	68.26895	1168	1277	95.44997	1232	1264	68.26895	1220	1277	95.44997		120.7			99.8

Prior MR6a	1220	1266	68.26895	1175	1277	95.44997	1233	1264	68.26895	1221	1277	95.44997		119.9			99.8
Prior MR7a	1224	1266	68.26895	1178	1279	95.44997	1233	1264	68.26895	1222	1277	95.44997		115.4			99.8
Prior MR8a	1158	1223	68.26895	1048	1265	95.44997	1228	1264	68.26895	1209	1276	95.44997		68.7			99.7
Prior MR9a	1222	1265	68.26895	1177	1278	95.44997	1233	1264	68.26895	1221	1277	95.44997		117.8			99.8
Prior MR10a	1224	1266	68.26895	1178	1279	95.44997	1233	1264	68.26895	1222	1277	95.44997		115.4			99.8
Prior MR11a	1230	1282	68.26895	1221	1293	95.44997	1233	1264	68.26895	1225	1279	95.44997		82.8			99.8
Prior MR12a	1183	1267	68.26895	1167	1273	95.44997	1232	1264	68.26895	1219	1277	95.44997		122.3			99.8
Prior MR13a	1226	1268	68.26895	1179	1281	95.44997	1233	1264	68.26895	1223	1277	95.44997		111.5			99.8
Prior MR14a	1230	1281	68.26895	1220	1293	95.44997	1233	1264	68.26895	1225	1279	95.44997		84.2			99.8
Prior MR15a	1051	1216	68.26895	1040	1221	95.44997	1224	1263	68.26895	1205	1276	95.44997		57			99.6
Last MR1a R1 Char							1248	1277	68.26895	1231	1286	95.44997					99.4
Boundary TS2 MR1a Char R1							1248	1279	68.26895	1232	1291	95.44997					98.6

2.18.3 – Dataset MR1a; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 85.5 Aoverall 80				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-6	1	68.26895	-28	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	0.855	68.26895	3.60E-17	1.311	95.44997		100			99.3
Sequence																	
Boundary Model MR1a							1219	1252	68.26895	1202	1269	95.44997					98.8
Phase																	
Prior MR1a	1163	1252	68.26895	1051	1268	95.44997	1234	1266	68.26895	1216	1277	95.44997		75.3			99.8
Prior MR2a	1176	1260	68.26895	1053	1273	95.44997	1236	1266	68.26895	1218	1277	95.44997		100.2			99.8

Prior MR3a	1178	1261	68.26895	1158	1273	95.44997	1236	1266	68.26895	1219	1277	95.44997		109.4			99.8
Prior MR4a	1264	1298	68.26895	1225	1380	95.44997	1235	1273	68.26895	1227	1285	95.44997		50.8			99.6
Prior MR5a	1225	1267	68.26895	1179	1280	95.44997	1236	1267	68.26895	1224	1278	95.44997		114.8			99.8
Prior MR6a	1227	1271	68.26895	1180	1283	95.44997	1236	1267	68.26895	1225	1279	95.44997		110.8			99.8
Prior MR7a	1226	1267	68.26895	1179	1280	95.44997	1236	1267	68.26895	1224	1278	95.44997		114.4			99.8
Prior MR8a	1228	1275	68.26895	1182	1286	95.44997	1236	1267	68.26895	1225	1279	95.44997		107.3			99.8
Prior MR9a	1217	1267	68.26895	1168	1275	95.44997	1237	1266	68.26895	1222	1277	95.44997		122.3			99.8
Prior MR10a	1217	1267	68.26895	1168	1275	95.44997	1236	1266	68.26895	1222	1277	95.44997		122.3			99.8
Prior MR11a	1226	1270	68.26895	1180	1282	95.44997	1236	1267	68.26895	1225	1278	95.44997		111.7			99.8
Prior MR12a	1226	1268	68.26895	1179	1281	95.44997	1236	1267	68.26895	1225	1278	95.44997		113			99.8
Prior MR13a	1055	1223	68.26895	1047	1264	95.44997	1233	1266	68.26895	1213	1277	95.44997		53.7			99.8
Prior MR14a	1264	1298	68.26895	1225	1380	95.44997	1236	1273	68.26895	1227	1285	95.44997		50.7			99.7
Prior MR15a	1218	1266	68.26895	1168	1276	95.44997	1237	1266	68.26895	1223	1278	95.44997		121.8			99.8
Last MR1a R2 Char							1252	1282	68.26895	1234	1291	95.44997					99.3
Boundary TS2 MR1a Char R2							1252	1284	68.26895	1234	1297	95.44997					98.1

2.18.4 – Dataset MR1a; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1a R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.1 Aoverall 104.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-6	1	68.26895	-24	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9

U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	0.783	68.26895	3.60E-17	1.275	95.44997		100			99.1
Sequence																	
Boundary Model MR1a							1221	1250	68.26895	1209	1265	95.44997					96.3
Phase																	
Prior MR1a	1218	1266	68.26895	1168	1276	95.44997	1236	1264	68.26895	1223	1273	95.44997		124.2			99.5
Prior MR2a	1223	1266	68.26895	1178	1279	95.44997	1236	1263	68.26895	1224	1273	95.44997		118.5			99.5
Prior MR3a	1178	1260	68.26895	1054	1273	95.44997	1236	1264	68.26895	1221	1272	95.44997		107.4			99.5
Prior MR4a	1177	1260	68.26895	1054	1273	95.44997	1236	1264	68.26895	1220	1272	95.44997		105.5			99.5
Prior MR5a	1226	1267	68.26895	1179	1280	95.44997	1236	1263	68.26895	1224	1273	95.44997		115.3			99.5
Prior MR6a	1227	1272	68.26895	1181	1283	95.44997	1236	1263	68.26895	1225	1274	95.44997		109.7			99.5
Prior MR7a	1266	1298	68.26895	1226	1382	95.44997	1234	1264	68.26895	1226	1279	95.44997		32.4			99.3
Prior MR8a	1223	1266	68.26895	1178	1279	95.44997	1236	1263	68.26895	1224	1273	95.44997		118.5			99.4
Prior MR9a	1226	1270	68.26895	1180	1282	95.44997	1236	1263	68.26895	1224	1274	95.44997		112			99.5
Prior MR10a	1183	1267	68.26895	1167	1273	95.44997	1236	1264	68.26895	1222	1273	95.44997		124.5			99.5
Prior MR11a	1221	1265	68.26895	1176	1278	95.44997	1236	1264	68.26895	1223	1273	95.44997		121.4			99.6
Prior MR12a	1055	1222	68.26895	1047	1263	95.44997	1232	1264	68.26895	1217	1272	95.44997		48.3			99.5
Prior MR13a	1182	1266	68.26895	1167	1273	95.44997	1236	1264	68.26895	1222	1273	95.44997		124.2			99.4
Prior MR14a	1220	1266	68.26895	1175	1277	95.44997	1236	1264	68.26895	1223	1273	95.44997		122.7			99.5
Prior MR15a	1224	1266	68.26895	1179	1279	95.44997	1236	1263	68.26895	1224	1273	95.44997		116.9			99.4
Last MR1a R3 Char							1248	1274	68.26895	1231	1283	95.44997					98.6
Boundary TS2 MR1a Char R3							1248	1276	68.26895	1231	1288	95.44997					96.2

2.19.1 – Dataset MRR1a; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRR1a");
    Phase()
    {
      Date(Prior("MRR1a", "MRR1a.prior"));
      Date(Prior("MRR2a", "MRR2a.prior"));
      Date(Prior("MRR3a", "MRR3a.prior"));
      Date(Prior("MRR4a", "MRR4a.prior"));
      Date(Prior("MRR5a", "MRR5a.prior"));
      Date(Prior("MRR6a", "MRR6a.prior"));
      Date(Prior("MRR7a", "MRR7a.prior"));
      Date(Prior("MRR8a", "MRR8a.prior"));
      Date(Prior("MRR9a", "MRR9a.prior"));
      Date(Prior("MRR10a", "MRR10a.prior"));
      Last("MRR1a R1 Tua");
    };
    Boundary("TS2 MRR1a Tau R1");
  };
};
```

2.19.2 – Dataset MRR1a; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1a R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.8 Aoverall 100.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1a							1216	1246	68.26895	1195	1259	95.44997					97
Phase																	
Prior MRR1a	1160	1251	68.26895	1049	1268	95.44997	1208	1258	68.26895	1175	1265	95.44997		88.6			97.9
Prior MRR2a	1160	1251	68.26895	1049	1268	95.44997	1209	1258	68.26895	1175	1265	95.44997		88.5			98.2
Prior MRR3a	1222	1266	68.26895	1177	1278	95.44997	1223	1253	68.26895	1212	1271	95.44997		114.5			98.2
Prior MRR4a	1180	1264	68.26895	1163	1272	95.44997	1220	1255	68.26895	1182	1269	95.44997		117.8			97.3
Prior MRR5a	1219	1266	68.26895	1168	1276	95.44997	1222	1254	68.26895	1207	1270	95.44997		118.2			98
Prior MRR6a	1052	1216	68.26895	1040	1222	95.44997	1189	1256	68.26895	1156	1263	95.44997		83.8			97.6
Prior MRR7a	1229	1279	68.26895	1219	1289	95.44997	1223	1253	68.26895	1219	1271	95.44997		90.3			99
Prior MRR8a	1180	1264	68.26895	1163	1272	95.44997	1220	1255	68.26895	1184	1268	95.44997		118			98.5
Prior MRR9a	1221	1265	68.26895	1176	1278	95.44997	1222	1253	68.26895	1211	1271	95.44997		115.2			98.6
Prior MRR10a	1230	1282	68.26895	1221	1293	95.44997	1223	1252	68.26895	1220	1271	95.44997		79.3			98.9
Last MRR1a R1 Tau							1239	1268	68.26895	1225	1274	95.44997					97.8
Boundary TS2 MRR1a Tau R1							1240	1270	68.26895	1224	1280	95.44997					95.3

2.19.3 – Dataset MRR1a; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1a R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 129.8 Aoverall 130.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1a							1233	1258	68.26895	1223	1266	95.44997					99
Phase																	
Prior MRR1a	1180	1263	68.26895	1162	1272	95.44997	1235	1264	68.26895	1215	1271	95.44997		113.5			99.1
Prior MRR2a	1183	1267	68.26895	1167	1273	95.44997	1235	1264	68.26895	1219	1270	95.44997		120.5			99.3
Prior MRR3a	1182	1266	68.26895	1167	1273	95.44997	1235	1264	68.26895	1218	1270	95.44997		120.1			99.2
Prior MRR4a	1227	1274	68.26895	1182	1284	95.44997	1234	1264	68.26895	1224	1271	95.44997		110			99.1
Prior MRR5a	1176	1260	68.26895	1053	1273	95.44997	1234	1264	68.26895	1210	1271	95.44997		98.5			99.2
Prior MRR6a	1228	1275	68.26895	1214	1287	95.44997	1234	1265	68.26895	1224	1271	95.44997		107.9			99.2
Prior MRR7a	1228	1274	68.26895	1182	1285	95.44997	1234	1264	68.26895	1224	1271	95.44997		109.5			99.1
Prior MRR8a	1227	1273	68.26895	1181	1284	95.44997	1234	1264	68.26895	1224	1271	95.44997		111			99.2
Prior MRR9a	1229	1278	68.26895	1218	1288	95.44997	1233	1265	68.26895	1224	1272	95.44997		101.4			99.2
Prior MRR10a	1229	1279	68.26895	1219	1289	95.44997	1233	1266	68.26895	1225	1272	95.44997		98.5			99.2
Last MRR1a R2 Tau							1245	1271	68.26895	1231	1276	95.44997					98.8
Boundary TS2 MRR1a Tau R2							1244	1273	68.26895	1230	1279	95.44997					97.7

2.19.4 – Dataset MRR1a; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1a R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.8 Aoverall 93				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1a							1226	1253	68.26895	1213	1264	95.44997					98.4
Phase																	
Prior MRR1a	1218	1266	68.26895	1168	1276	95.44997	1230	1261	68.26895	1216	1271	95.44997		121			99.1
Prior MRR2a	1225	1267	68.26895	1179	1280	95.44997	1231	1260	68.26895	1220	1270	95.44997		114.5			99.1
Prior MRR3a	1229	1281	68.26895	1220	1291	95.44997	1230	1260	68.26895	1222	1272	95.44997		88.1			99.4
Prior MRR4a	1168	1257	68.26895	1053	1271	95.44997	1227	1261	68.26895	1188	1270	95.44997		95.8			99.1
Prior MRR5a	1216	1267	68.26895	1168	1275	95.44997	1230	1261	68.26895	1214	1271	95.44997		121.6			99
Prior MRR6a	1226	1267	68.26895	1179	1280	95.44997	1231	1260	68.26895	1220	1270	95.44997		113.4			99.2
Prior MRR7a	1231	1286	68.26895	1221	1298	95.44997	1229	1260	68.26895	1223	1273	95.44997		71.8			99
Prior MRR8a	1227	1274	68.26895	1182	1284	95.44997	1230	1259	68.26895	1221	1271	95.44997		107.5			99.3
Prior MRR9a	1175	1259	68.26895	1053	1272	95.44997	1227	1261	68.26895	1191	1270	95.44997		99.4			99.2
Prior MRR10a	1054	1222	68.26895	1047	1263	95.44997	1212	1262	68.26895	1178	1267	95.44997		64.1			98.7
Last MRR1a R3 Tau							1243	1270	68.26895	1229	1277	95.44997					98.6
Boundary TS2 MRR1a Tau R3							1243	1272	68.26895	1228	1281	95.44997					97.3

2.20.1 – Dataset MRR1a; Exponential Prior/10-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1),"t");
  Sequence()
  {
    Tau_Boundary("Model MRR1a");
    Phase()
    {
      Date(Prior("MRR1a","MRR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2a","MRR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3a","MRR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4a","MRR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5a","MRR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6a","MRR6a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR7a","MRR7a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR8a","MRR8a.prior"))
      {
        Outlier("Charcoal", 1);
      };
    }
  }
}
```

```

};
Date(Prior("MRR9a","MRR9a.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR10a","MRR10a.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MRR1a R1 TmodC");
};
Boundary("TS2 MRR1a Tau Mod Char R1");
};
};

```

2.20.2 – Dataset MRR1a; Run 1; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a TR1 modC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.8 Aoverall 101.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-16	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.947	68.26895	1.34E-17	0.969	95.44997		100			99.6
Sequence																	
Tau_Boundary Model MRR1a							1219	1249	68.26895	1199	1263	95.44997					97.6
Phase																	
Prior MRR1a	1160	1251	68.26895	1049	1268	95.44997	1214	1260	68.26895	1178	1269	95.44997		89.4			98.9

Prior MRR2a	1160	1251	68.26895	1049	1268	95.44997	1215	1260	68.26895	1179	1269	95.44997		89.6			98.8
Prior MRR3a	1222	1266	68.26895	1177	1278	95.44997	1226	1257	68.26895	1215	1275	95.44997		114.3			99.1
Prior MRR4a	1180	1264	68.26895	1163	1272	95.44997	1224	1259	68.26895	1188	1273	95.44997		117.6			99.1
Prior MRR5a	1219	1266	68.26895	1168	1276	95.44997	1226	1258	68.26895	1210	1275	95.44997		117.8			99.2
Prior MRR6a	1052	1216	68.26895	1040	1222	95.44997	1194	1259	68.26895	1159	1267	95.44997		85.3			98.8
Prior MRR7a	1229	1279	68.26895	1219	1289	95.44997	1227	1258	68.26895	1222	1274	95.44997		90.9			98.8
Prior MRR8a	1180	1264	68.26895	1163	1272	95.44997	1224	1259	68.26895	1189	1273	95.44997		117.6			98.7
Prior MRR9a	1221	1265	68.26895	1176	1278	95.44997	1226	1258	68.26895	1214	1275	95.44997		115.2			99.2
Prior MRR10a	1230	1282	68.26895	1221	1293	95.44997	1227	1257	68.26895	1222	1275	95.44997		79.9			99.4
Last MRR1a R1 TmodC							1241	1271	68.26895	1228	1278	95.44997					97.9
Boundary TS2 MRR1a Tau Mod Char R1							1242	1273	68.26895	1227	1284	95.44997					96.1

2.20.3 – Dataset MRR1a; Run 2; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 128.7 Aoverall 129.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-14	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9

U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.658	68.26895	1.34E-17	0.942	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MRR1a							1237	1262	68.26895	1226	1270	95.44997					97.2
Phase																	
Prior MRR1a	1180	1263	68.26895	1162	1272	95.44997	1239	1267	68.26895	1218	1275	95.44997		113.9			98.9
Prior MRR2a	1183	1267	68.26895	1167	1273	95.44997	1238	1267	68.26895	1221	1275	95.44997		120.6			99
Prior MRR3a	1182	1266	68.26895	1167	1273	95.44997	1239	1267	68.26895	1221	1275	95.44997		120.2			98.8
Prior MRR4a	1227	1274	68.26895	1182	1284	95.44997	1239	1268	68.26895	1227	1275	95.44997		109.8			98.8
Prior MRR5a	1176	1260	68.26895	1053	1273	95.44997	1238	1267	68.26895	1213	1275	95.44997		99.3			98.4
Prior MRR6a	1228	1275	68.26895	1214	1287	95.44997	1239	1268	68.26895	1227	1275	95.44997		107.6			98.3
Prior MRR7a	1228	1274	68.26895	1182	1285	95.44997	1239	1268	68.26895	1227	1275	95.44997		109.2			98.5
Prior MRR8a	1227	1273	68.26895	1181	1284	95.44997	1239	1267	68.26895	1227	1275	95.44997		110.7			98.9
Prior MRR9a	1229	1278	68.26895	1218	1288	95.44997	1239	1268	68.26895	1228	1275	95.44997		101.5			98.7
Prior MRR10a	1229	1279	68.26895	1219	1289	95.44997	1238	1268	68.26895	1228	1276	95.44997		98.9			98.7
Last MRR1a R2 TmodC							1248	1275	68.26895	1234	1280	95.44997					98.8
Boundary TS2 MRR1a TmodC R2							1250	1276	68.26895	1234	1283	95.44997					97.6

2.20.4 – Dataset MRR1a; Run 3; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 94.9 Aoverall 95.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-15	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.691	68.26895	1.34E-17	0.946	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MRR1a							1230	1257	68.26895	1216	1268	95.44997					97.9
Phase																	
Prior MRR1a	1218	1266	68.26895	1168	1276	95.44997	1234	1264	68.26895	1218	1275	95.44997		120.6			98.9
Prior MRR2a	1225	1267	68.26895	1179	1280	95.44997	1234	1264	68.26895	1223	1274	95.44997		114.1			99
Prior MRR3a	1229	1281	68.26895	1220	1291	95.44997	1234	1264	68.26895	1225	1276	95.44997		89.1			98.9
Prior MRR4a	1168	1257	68.26895	1053	1271	95.44997	1230	1265	68.26895	1198	1274	95.44997		96.5			98.6
Prior MRR5a	1216	1267	68.26895	1168	1275	95.44997	1233	1264	68.26895	1217	1275	95.44997		121.2			98.5
Prior MRR6a	1226	1267	68.26895	1179	1280	95.44997	1234	1264	68.26895	1223	1274	95.44997		113.2			98.4

Prior MRR7a	1231	1286	68.2689 5	1221	1298	95.4499 7	1233	1264	68.2689 5	1226	1276	95.4499 7		73.4			99
Prior MRR8a	1227	1274	68.2689 5	1182	1284	95.4499 7	1234	1264	68.2689 5	1224	1275	95.4499 7		107.5			98.8
Prior MRR9a	1175	1259	68.2689 5	1053	1272	95.4499 7	1231	1265	68.2689 5	1200	1275	95.4499 7		100			98.7
Prior MRR10a	1054	1222	68.2689 5	1047	1263	95.4499 7	1216	1264	68.2689 5	1181	1272	95.4499 7		66.6			98.3
Last MRR1a R3 TmodC							1247	1274	68.2689 5	1232	1281	95.4499 7					98.6
Boundary TS2 MRR1a Tau mod Char R3							1247	1276	68.2689 5	1231	1285	95.4499 7					97.3

2.21.1 – Dataset MRR1a; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRR1a");
    Phase()
    {
      Date(Prior("MRR1a","MRR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2a","MRR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3a","MRR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4a","MRR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5a","MRR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6a","MRR6a.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7a","MRR7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8a","MRR8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9a","MRR9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10a","MRR10a.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1a R1 Char");
};
Boundary("TS2 MRR1a Char R1");
};
};

```

2.21.2 – Dataset MRR1a; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 103.2 Aoverall 101.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C

Outlier_Model Charcoal							-10	1	68.26895	-45	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.188	68.26895	3.60E-17	1.56	95.44997		100			98.9
Sequence																	
Boundary Model MRR1a							1200	1252	68.26895	1160	1266	95.44997					96.2
Phase																	
Prior MRR1a	1160	1251	68.26895	1049	1268	95.44997	1218	1260	68.26895	1190	1277	95.44997		93.7			99.5
Prior MRR2a	1160	1251	68.26895	1049	1268	95.44997	1217	1260	68.26895	1189	1277	95.44997		93.7			99.4
Prior MRR3a	1222	1266	68.26895	1177	1278	95.44997	1226	1260	68.26895	1214	1282	95.44997		111.8			99.7
Prior MRR4a	1180	1264	68.26895	1163	1272	95.44997	1223	1261	68.26895	1201	1282	95.44997		117.4			99.6
Prior MRR5a	1219	1266	68.26895	1168	1276	95.44997	1225	1261	68.26895	1209	1282	95.44997		115.4			99.7
Prior MRR6a	1052	1216	68.26895	1040	1222	95.44997	1212	1259	68.26895	1185	1277	95.44997		82.3			99.4
Prior MRR7a	1229	1279	68.26895	1219	1289	95.44997	1227	1261	68.26895	1221	1282	95.44997		90.7			99.7
Prior MRR8a	1180	1264	68.26895	1163	1272	95.44997	1223	1260	68.26895	1201	1282	95.44997		117.3			99.6
Prior MRR9a	1221	1265	68.26895	1176	1278	95.44997	1226	1260	68.26895	1213	1282	95.44997		112.6			99.7
Prior MRR10a	1230	1282	68.26895	1221	1293	95.44997	1227	1261	68.26895	1222	1282	95.44997		81.1			99.7
Last MRR1a R1 Char							1243	1276	68.26895	1227	1289	95.44997					99.4
Boundary TS2 MRR1a Char R1							1243	1281	68.26895	1226	1302	95.44997					97

2.21.3 – Dataset MRR1a; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 129.3 Aoverall 129.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-6	1	68.26895	-24	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	0.789	68.26895	3.60E-17	1.302	95.44997		100			99.4
Sequence																	
Boundary Model MRR1a							1224	1256	68.26895	1210	1270	95.44997					98.1
Phase																	
Prior MRR1a	1180	1263	68.26895	1162	1272	95.44997	1238	1267	68.26895	1223	1276	95.44997		115.3			99.7
Prior MRR2a	1183	1267	68.26895	1167	1273	95.44997	1238	1267	68.26895	1224	1276	95.44997		122			99.6
Prior MRR3a	1182	1266	68.26895	1167	1273	95.44997	1238	1267	68.26895	1224	1276	95.44997		121.6			99.7
Prior MRR4a	1227	1274	68.26895	1182	1284	95.44997	1238	1267	68.26895	1227	1277	95.44997		109.4			99.6
Prior MRR5a	1176	1260	68.26895	1053	1273	95.44997	1238	1267	68.26895	1222	1276	95.44997		99.8			99.6
Prior MRR6a	1228	1275	68.26895	1214	1287	95.44997	1238	1267	68.26895	1227	1277	95.44997		107.1			99.5
Prior MRR7a	1228	1274	68.26895	1182	1285	95.44997	1238	1267	68.26895	1227	1277	95.44997		108.8			99.6
Prior MRR8a	1227	1273	68.26895	1181	1284	95.44997	1238	1267	68.26895	1227	1277	95.44997		110.4			99.6
Prior MRR9a	1229	1278	68.26895	1218	1288	95.44997	1237	1268	68.26895	1227	1278	95.44997		100.8			99.6
Prior MRR10a	1229	1279	68.26895	1219	1289	95.44997	1237	1268	68.26895	1227	1278	95.44997		98.2			99.5
Last MRR1a R2 Char							1250	1277	68.26895	1233	1285	95.44997					99.1
Boundary TS2 MRR1a Char R2							1249	1280	68.26895	1233	1291	95.44997					97.9

2.21.4 – Dataset MRR1a; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1a R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.7 Aoverall 92.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-7	1	68.26895	-33	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	0.888	68.26895	3.60E-17	1.449	95.44997		100			99.2
Sequence																	
Boundary Model MRR1a							1218	1255	68.26895	1193	1272	95.44997					96.8
Phase																	
Prior MRR1a	1218	1266	68.26895	1168	1276	95.44997	1234	1265	68.26895	1221	1278	95.44997		121.3			99.5
Prior MRR2a	1225	1267	68.26895	1179	1280	95.44997	1235	1266	68.26895	1223	1278	95.44997		114			99.6
Prior MRR3a	1229	1281	68.26895	1220	1291	95.44997	1234	1266	68.26895	1225	1280	95.44997		89			99.6
Prior MRR4a	1168	1257	68.26895	1053	1271	95.44997	1232	1265	68.26895	1214	1279	95.44997		96.7			99.6
Prior MRR5a	1216	1267	68.26895	1168	1275	95.44997	1234	1265	68.26895	1220	1279	95.44997		122			99.7
Prior MRR6a	1226	1267	68.26895	1179	1280	95.44997	1235	1266	68.26895	1223	1278	95.44997		113.1			99.6
Prior MRR7a	1231	1286	68.26895	1221	1298	95.44997	1234	1267	68.26895	1225	1282	95.44997		74.5			99.5
Prior MRR8a	1227	1274	68.26895	1182	1284	95.44997	1234	1266	68.26895	1224	1279	95.44997		107			99.7
Prior MRR9a	1175	1259	68.26895	1053	1272	95.44997	1233	1265	68.26895	1215	1279	95.44997		100.4			99.6
Prior MRR10a	1054	1222	68.26895	1047	1263	95.44997	1230	1265	68.26895	1209	1278	95.44997		58.2			99.5

Last MRR1a R3 Char							1247	1277	68.26895	1230	1288	95.44997					98.6
Boundary TS2 MRR1a Char R3							1247	1281	68.26895	1230	1296	95.44997					96.3

2.22.1 – Dataset MRRR1a; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRRR1a");
    Phase()
    {
      Date(Prior("MRRR1a", "MRRR1a.prior"));
      Date(Prior("MRRR2a", "MRRR2a.prior"));
      Date(Prior("MRRR3a", "MRRR3a.prior"));
      Date(Prior("MRRR4a", "MRRR4a.prior"));
      Date(Prior("MRRR5a", "MRRR5a.prior"));
      Last("MRRR1a R1 Tua");
    };
    Boundary("TS2 MRRR1a Tau R1");
  };
};
```

2.22.2 – Dataset MRRR1a; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1a R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.5 Aoverall 95				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	

Tau_Boundary Model MRRR1a							1201	1254	68.26895	1109	1269	95.44997					97.7
Phase																	
Prior MRRR1a	1158	1224	68.26895	1048	1265	95.44997	1191	1259	68.26895	1160	1265	95.44997		90.7			99.5
Prior MRRR2a	1228	1277	68.26895	1217	1287	95.44997	1223	1259	68.26895	1219	1277	95.44997		99.5			99.5
Prior MRRR3a	1183	1267	68.26895	1167	1273	95.44997	1220	1259	68.26895	1180	1272	95.44997		114.2			99.6
Prior MRRR4a	1229	1279	68.26895	1219	1290	95.44997	1224	1264	68.26895	1220	1278	95.44997		93.9			99.6
Prior MRRR5a	1160	1226	68.26895	1049	1268	95.44997	1201	1260	68.26895	1164	1266	95.44997		92.1			99.5
Last MRRR1a R1 Tua							1240	1273	68.26895	1225	1279	95.44997					99.3
Boundary TS2 MRRR1a Tau R1							1238	1280	68.26895	1222	1312	95.44997					97.7

2.22.3 – Dataset MRRR1a; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1a R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93.8 Aoverall 94.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1a							1201	1254	68.26895	1109	1269	95.44997					98
Phase																	

Prior MRRR1a	1168	1257	68.26895	1053	1271	95.44997	1212	1260	68.26895	1173	1268	95.44997		102.6			99.5
Prior MRRR2a	1230	1285	68.26895	1221	1297	95.44997	1224	1271	68.26895	1220	1281	95.44997		80.8			99.6
Prior MRRR3a	1179	1262	68.26895	1160	1272	95.44997	1217	1260	68.26895	1178	1269	95.44997		110.4			99.5
Prior MRRR4a	1226	1270	68.26895	1180	1282	95.44997	1223	1257	68.26895	1216	1277	95.44997		105.3			99.6
Prior MRRR5a	1054	1222	68.26895	1046	1262	95.44997	1185	1258	68.26895	1154	1267	95.44997		91.7			99.4
Last MRRR1a R2 Tau							1239	1274	68.26895	1224	1281	95.44997					99.4
Boundary TS2 MRRR1a Tau R2							1237	1281	68.26895	1221	1316	95.44997					97.6

2.22.4 – Dataset MRRR1a; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1a R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.1 Aoverall 104				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1a							1168	1233	68.26895	1043	1259	95.44997					98
Phase																	
Prior MRRR1a	1160	1251	68.26895	1049	1268	95.44997	1176	1229	68.26895	1159	1263	95.44997		108.4			99.6

Prior MRRR2a	1227	1273	68.26895	1181	1284	95.44997	1218	1255	68.26895	1179	1276	95.44997		88.7			99.4
Prior MRRR3a	1220	1266	68.26895	1175	1278	95.44997	1215	1257	68.26895	1177	1271	95.44997		98.3			99.4
Prior MRRR4a	1053	1220	68.26895	1043	1258	95.44997	1173	1222	68.26895	1053	1262	95.44997		109.6			99.6
Prior MRRR5a	1052	1216	68.26895	1040	1222	95.44997	1168	1221	68.26895	1051	1258	95.44997		105.3			99.7
Last MRRR1a R3 Tua							1222	1260	68.26895	1188	1278	95.44997					99.2
Boundary TS2 MRRR1a Tau R3							1223	1275	68.26895	1182	1321	95.44997					96.8

2.23.1 – Dataset MRRR1a; Exponential Prior/10-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1),"t");
  Sequence()
  {
    Tau_Boundary("Model MRRR1a");
    Phase()
    {
      Date(Prior("MRRR1a","MRRR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2a","MRRR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3a","MRRR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4a","MRRR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5a","MRRR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1a R1 TmodC");
    };
  };
};
```

```
Boundary("TS2 MRRR1a Tau Mod Char R1");
};
};
```

2.23.2 – Dataset MRRR1a; Run 1; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.5 Aoverall 96.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-4	1	68.26895	-16	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.927	68.26895	1.34E-17	0.988	95.44997		100			99.8
Sequence																	
Tau_Boundary Model MRRR1a							1206	1258	68.26895	1117	1273	95.44997					98.3
Phase																	
Prior MRRR1a	1158	1224	68.26895	1048	1265	95.44997	1199	1262	68.26895	1163	1271	95.44997		91.7			99.3
Prior MRRR2a	1228	1277	68.26895	1217	1287	95.44997	1228	1262	68.26895	1221	1281	95.44997		99.5			99.6
Prior MRRR3a	1183	1267	68.26895	1167	1273	95.44997	1224	1262	68.26895	1183	1277	95.44997		114			99.4
Prior MRRR4a	1229	1279	68.26895	1219	1290	95.44997	1227	1267	68.26895	1221	1282	95.44997		94.1			99.6
Prior MRRR5a	1160	1226	68.26895	1049	1268	95.44997	1206	1262	68.26895	1167	1270	95.44997		93			99.3
Last MRRR1a R1 TmodC							1243	1276	68.26895	1227	1284	95.44997					99.4

Boundary TS2 MRRR1a Tau Mod Char R1							1241	1283	68.26895	1224	1316	95.44997					97.1
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2.23.3 – Dataset MRRR1a; Run 2; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95 Aoverall 95.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-5	1	68.26895	-16	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.8
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.991	68.26895	1.34E-17	1	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MRRR1a							1205	1258	68.26895	1115	1274	95.44997					95.1
Phase																	
Prior MRRR1a	1168	1257	68.26895	1053	1271	95.44997	1215	1264	68.26895	1175	1273	95.44997		102.9			98.9
Prior MRRR2a	1230	1285	68.26895	1221	1297	95.44997	1227	1273	68.26895	1222	1285	95.44997		81.5			99
Prior MRRR3a	1179	1262	68.26895	1160	1272	95.44997	1220	1263	68.26895	1180	1274	95.44997		110.4			99.1
Prior MRRR4a	1226	1270	68.26895	1180	1282	95.44997	1227	1262	68.26895	1217	1282	95.44997		105.2			99.4
Prior MRRR5a	1054	1222	68.26895	1046	1262	95.44997	1189	1260	68.26895	1157	1273	95.44997		92.5			98.9
Last MRRR1a R2 TmodC							1243	1277	68.26895	1226	1286	95.44997					99
Boundary TS2 MRRR1a Tau mod Char R2							1240	1285	68.26895	1223	1323	95.44997					95.9

2.23.4 – Dataset MRRR1a; Run 3; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.6 Aoverall 104.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-5	1	68.26895	-16	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	0.011	1	68.26895	1.34E-17	1	95.44997		100			99.9
Sequence																	
Tau_Boundary Model MRRR1a							1172	1237	68.26895	1051	1263	95.44997					97.9
Phase																	
Prior MRRR1a	1160	1251	68.26895	1049	1268	95.44997	1181	1235	68.26895	1162	1267	95.44997		108.6			99.7
Prior MRRR2a	1227	1273	68.26895	1181	1284	95.44997	1220	1259	68.26895	1182	1280	95.44997		89.6			99.5
Prior MRRR3a	1220	1266	68.26895	1175	1278	95.44997	1217	1260	68.26895	1181	1274	95.44997		98.7			99.5
Prior MRRR4a	1053	1220	68.26895	1043	1258	95.44997	1176	1227	68.26895	1057	1266	95.44997		109.9			99.6
Prior MRRR5a	1052	1216	68.26895	1040	1222	95.44997	1170	1226	68.26895	1054	1261	95.44997		105.8			99.7
Last MRRR1a R3 TmodC							1225	1264	68.26895	1191	1283	95.44997					99.4
Boundary TS2 MRRR1a Tau mod Char R3							1226	1278	68.26895	1185	1326	95.44997					96.5

2.24.1 – Dataset MRRR1a; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRRR1a");
    Phase()
    {
      Date(Prior("MRRR1a","MRRR1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2a","MRRR2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3a","MRRR3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4a","MRRR4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5a","MRRR5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1a R1 Char");
    };
  };
};
```

```

Boundary("TS2 MRRR1a Char R1");
};
};

```

2.24.2 – Dataset MRRR1a; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97 Aoverall 96.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	1	68.26895	-61	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.206	68.26895	3.60E-17	1.785	95.44997		100			99.4
Sequence																	
Boundary Model MRRR1a							1186	1258	68.26895	1124	1282	95.44997					96.2
Phase																	
Prior MRRR1a	1158	1224	68.26895	1048	1265	95.44997	1211	1265	68.26895	1174	1289	95.44997		92.5			99.6
Prior MRRR2a	1228	1277	68.26895	1217	1287	95.44997	1229	1270	68.26895	1219	1296	95.44997		98.4			99.5
Prior MRRR3a	1183	1267	68.26895	1167	1273	95.44997	1223	1267	68.26895	1187	1292	95.44997		113.3			99.6
Prior MRRR4a	1229	1279	68.26895	1219	1290	95.44997	1229	1270	68.26895	1220	1296	95.44997		93.3			99.5
Prior MRRR5a	1160	1226	68.26895	1049	1268	95.44997	1213	1266	68.26895	1175	1290	95.44997		94.8			99.6
Last MRRR1a R1 Char							1241	1281	68.26895	1224	1307	95.44997					99.2

Boundary TS2 MRRR1a Char R1							1240	1294	68.26895	1224	1354	95.44997					96.2
--------------------------------	--	--	--	--	--	--	------	------	----------	------	------	----------	--	--	--	--	------

2.24.3 – Dataset MRRR1a; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.3 Aoverall 97.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-13	1	68.26895	-64	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.275	68.26895	3.60E-17	1.806	95.44997		100			99.5
Sequence																	
Boundary Model MRRR1a							1181	1255	68.26895	1111	1286	95.44997					95.7
Phase																	
Prior MRRR1a	1168	1257	68.26895	1053	1271	95.44997	1216	1267	68.26895	1177	1293	95.44997		105.2			99.6
Prior MRRR2a	1230	1285	68.26895	1221	1297	95.44997	1230	1277	68.26895	1221	1302	95.44997		83.2			99.7
Prior MRRR3a	1179	1262	68.26895	1160	1272	95.44997	1219	1268	68.26895	1180	1294	95.44997		110.8			99.7
Prior MRRR4a	1226	1270	68.26895	1180	1282	95.44997	1227	1268	68.26895	1213	1303	95.44997		103.6			99.7
Prior MRRR5a	1054	1222	68.26895	1046	1262	95.44997	1206	1265	68.26895	1167	1292	95.44997		94			99.4
Last MRRR1a R2 Char							1241	1283	68.26895	1224	1311	95.44997					99.4
Boundary TS2 MRRR1a Char R2							1242	1299	68.26895	1224	1364	95.44997					97.3

2.24.4 – Dataset MRRR1a; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1a R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 109.4 Aoverall 108.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-79	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.018	1.329	68.26895	3.60E-17	1.902	95.44997		100			99.5
Sequence																	
Boundary Model MRRR1a							1147	1228	68.26895	1040	1280	95.44997					95.9
Phase																	
Prior MRRR1a	1160	1251	68.26895	1049	1268	95.44997	1184	1246	68.26895	1161	1290	95.44997		113			99.6
Prior MRRR2a	1227	1273	68.26895	1181	1284	95.44997	1221	1268	68.26895	1181	1298	95.44997		89.5			99.6
Prior MRRR3a	1220	1266	68.26895	1175	1278	95.44997	1217	1268	68.26895	1176	1296	95.44997		95.6			99.6
Prior MRRR4a	1053	1220	68.26895	1043	1258	95.44997	1179	1239	68.26895	1153	1302	95.44997		115.4			99.5
Prior MRRR5a	1052	1216	68.26895	1040	1222	95.44997	1176	1238	68.26895	1133	1301	95.44997		109.9			99.5
Last MRRR1a R3 Char							1226	1273	68.26895	1188	1315	95.44997					99.4
Boundary TS2 MRRR1a Char R3							1226	1297	68.26895	1186	1384	95.44997					96.4

2.25.1 – Dataset MR1b; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MR1b");
    Phase()
    {
      Date(Prior("MR1b", "MR1b.prior"));
      Date(Prior("MR2b", "MR2b.prior"));
      Date(Prior("MR3b", "MR3b.prior"));
      Date(Prior("MR4b", "MR4b.prior"));
      Date(Prior("MR5b", "MR5b.prior"));
      Date(Prior("MR6b", "MR6b.prior"));
      Date(Prior("MR7b", "MR7b.prior"));
      Date(Prior("MR8b", "MR8b.prior"));
      Date(Prior("MR9b", "MR9b.prior"));
      Date(Prior("MR10b", "MR10b.prior"));
      Date(Prior("MR11b", "MR11b.prior"));
      Date(Prior("MR12b", "MR12b.prior"));
      Date(Prior("MR13b", "MR13b.prior"));
      Date(Prior("MR14b", "MR14b.prior"));
      Date(Prior("MR15b", "MR15b.prior"));
      Last("MR1b R1 Tua");
    };
    Boundary("TS2 MR1b Tau R1");
  };
};
```

2.25.2 – Dataset MR1b; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1b R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.5 Aoverall 104.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1b							1168	1209	68.26895	1132	1224	95.44997					98.7
Phase																	
Prior MR1b	1227	1274	68.26895	1182	1284	95.44997	1221	1248	68.26895	1207	1274	95.44997		97.5			99.6
Prior MR2b	1026	1151	68.26895	995	1159	95.44997	1087	1158	68.26895	1022	1202	95.44997		96.3			99.1
Prior MR3b	1036	1154	68.26895	1023	1198	95.44997	1087	1200	68.26895	1036	1215	95.44997		91.2			99.2
Prior MR4b	1046	1201	68.26895	1038	1213	95.44997	1134	1218	68.26895	1051	1221	95.44997		90.1			99.3
Prior MR5b	1049	1214	68.26895	1040	1219	95.44997	1156	1218	68.26895	1050	1226	95.44997		99.7			99.1
Prior MR6b	1053	1221	68.26895	1045	1260	95.44997	1170	1221	68.26895	1055	1261	95.44997		111.2			99.4
Prior MR7b	995	1149	68.26895	993	1157	95.44997	1085	1156	68.26895	995	1163	95.44997		88.5			98.9
Prior MR8b	1215	1267	68.26895	1168	1274	95.44997	1215	1255	68.26895	1176	1266	95.44997		107.6			99.2
Prior MR9b	1162	1252	68.26895	1051	1268	95.44997	1177	1248	68.26895	1160	1261	95.44997		107.9			99.3
Prior MR10b	1164	1252	68.26895	1052	1268	95.44997	1178	1249	68.26895	1161	1261	95.44997		107.7			99.3
Prior MR11b	1223	1266	68.26895	1178	1279	95.44997	1219	1252	68.26895	1180	1270	95.44997		103.7			99.5
Prior MR12b	1180	1263	68.26895	1162	1272	95.44997	1206	1255	68.26895	1168	1264	95.44997		108.9			99.3
Prior MR13b	1165	1253	68.26895	1052	1268	95.44997	1179	1245	68.26895	1162	1261	95.44997		108			99.2
Prior MR14b	1181	1266	68.26895	1166	1272	95.44997	1211	1255	68.26895	1175	1265	95.44997		108.4			99.4

Prior MR15b	1228	1277	68.26895	1216	1287	95.44997	1221	1248	68.26895	1213	1274	95.44997		93.7			99.6
Last MR1b R1 Tau							1235	1263	68.26895	1225	1272	95.44997					99.3
Boundary TS2 MR1b Tau R1							1238	1268	68.26895	1226	1280	95.44997					97.8

2.25.3 – Dataset MR1b; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.8 Aoverall 99.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1b							1166	1213	68.26895	1123	1229	95.44997					98
Phase																	
Prior MR1b	1218	1266	68.26895	1168	1276	95.44997	1221	1261	68.26895	1179	1274	95.44997		108.6			99.3
Prior MR2b	1228	1275	68.26895	1182	1286	95.44997	1227	1265	68.26895	1218	1278	95.44997		103.1			99.1
Prior MR3b	1229	1278	68.26895	1218	1288	95.44997	1227	1269	68.26895	1220	1278	95.44997		99			99.2
Prior MR4b	1043	1159	68.26895	1029	1207	95.44997	1095	1210	68.26895	1046	1217	95.44997		89			99
Prior MR5b	1040	1156	68.26895	1027	1201	95.44997	1080	1202	68.26895	1039	1215	95.44997		90.8			98.9

Prior MR6b	1218	1266	68.26895	1168	1276	95.44997	1221	1261	68.26895	1178	1274	95.44997		108.8			99.2
Prior MR7b	1053	1221	68.26895	1045	1260	95.44997	1166	1221	68.26895	1053	1264	95.44997		107			99.4
Prior MR8b	1028	1151	68.26895	996	1160	95.44997	1084	1157	68.26895	1022	1201	95.44997		98.1			98.9
Prior MR9b	1053	1221	68.26895	1046	1261	95.44997	1166	1221	68.26895	1053	1265	95.44997		107			99.3
Prior MR10b	996	1149	68.26895	993	1157	95.44997	1030	1155	68.26895	995	1161	95.44997		91.5			98.8
Prior MR11b	1228	1276	68.26895	1215	1287	95.44997	1227	1265	68.26895	1218	1278	95.44997		102.3			99
Prior MR12b	1217	1267	68.26895	1168	1275	95.44997	1221	1261	68.26895	1178	1273	95.44997		108.6			99.3
Prior MR13b	1231	1287	68.26895	1221	1298	95.44997	1228	1275	68.26895	1222	1280	95.44997		84.5			99.2
Prior MR14b	1225	1267	68.26895	1179	1280	95.44997	1225	1262	68.26895	1182	1277	95.44997		106.1			99.4
Prior MR15b	1026	1151	68.26895	995	1159	95.44997	1085	1157	68.26895	1021	1200	95.44997		98			99.1
Last MR1b R2 Tau							1255	1278	68.26895	1237	1282	95.44997					99
Boundary TS2 MR1b Tau R2							1256	1283	68.26895	1239	1294	95.44997					97.2

2.25.4 – Dataset MR1b; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1b R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 90.9 Aoverall 85.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1b							1170	1216	68.26895	1129	1231	95.44997					97.1
Phase																	
Prior MR1b	1033	1152	68.26895	997	1165	95.44997	1087	1160	68.26895	1030	1210	95.44997		95			99
Prior MR2b	1043	1158	68.26895	1029	1207	95.44997	1097	1212	68.26895	1048	1217	95.44997		87			98.9
Prior MR3b	1158	1224	68.26895	1048	1265	95.44997	1167	1224	68.26895	1055	1267	95.44997		105.6			99.1
Prior MR4b	1046	1200	68.26895	1038	1213	95.44997	1132	1218	68.26895	1050	1221	95.44997		90			99
Prior MR5b	1224	1266	68.26895	1178	1279	95.44997	1221	1258	68.26895	1182	1277	95.44997		105.6			99.2
Prior MR6b	1049	1215	68.26895	1040	1219	95.44997	1156	1219	68.26895	1049	1251	95.44997		101.7			99.1
Prior MR7b	1234	1295	68.26895	1223	1378	95.44997	1225	1277	68.26895	1222	1282	95.44997		71			99.3
Prior MR8b	1050	1216	68.26895	1040	1220	95.44997	1158	1219	68.26895	1049	1253	95.44997		103.1			99.3
Prior MR9b	1232	1289	68.26895	1222	1375	95.44997	1225	1276	68.26895	1222	1281	95.44997		79			99.5
Prior MR10b	1053	1221	68.26895	1045	1260	95.44997	1168	1221	68.26895	1054	1264	95.44997		108.4			99.2
Prior MR11b	1049	1216	68.26895	1040	1220	95.44997	1157	1219	68.26895	1049	1252	95.44997		102.5			99.2
Prior MR12b	1228	1275	68.26895	1182	1286	95.44997	1223	1266	68.26895	1217	1278	95.44997		101.9			99.1

Prior MR13b	1222	1266	68.26895	1177	1279	95.44997	1221	1258	68.26895	1181	1276	95.44997		106.3			99.1
Prior MR14b	1047	1203	68.26895	1039	1215	95.44997	1134	1219	68.26895	1050	1222	95.44997		92.8			99.1
Prior MR15b	1229	1278	68.26895	1218	1287	95.44997	1223	1269	68.26895	1219	1278	95.44997		98.7			99.5
Last MR1b R3 Tau							1237	1280	68.26895	1231	1285	95.44997					99.3
Boundary TS2 MR1b Tau R3							1241	1286	68.26895	1233	1296	95.44997					96.5

2.26.1 – Dataset MR1b; Exponential Prior/50-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MR1b");
    Phase()
    {
      Date(Prior("MR1b","MR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2b","MR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3b","MR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4b","MR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5b","MR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6b","MR6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7b","MR7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8b","MR8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9b","MR9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10b","MR10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11b","MR11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12b","MR12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13b","MR13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14b","MR14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15b","MR15b.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Last("MR1b R1 TmodC");
};
Boundary("TS2 MR1b Tau mod Char R1");
};
};

```

2.26.2 – Dataset MR1b; Run 1; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 103.9 Aoverall 103.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	0	68.26895	-62	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.6915	68.26895	3.47E-18	1.7	95.44997		100			97.7
Sequence																	
Tau_Boundary Model MR1b							1174	1225	68.26895	1139	1251	95.44997					96.8
Phase																	
Prior MR1b	1227	1274	68.26895	1182	1284	95.44997	1226	1259	68.26895	1211	1285	95.44997		97			98.8
Prior MR2b	1026	1151	68.26895	995	1159	95.44997	1084	1178	68.26895	1030	1251	95.44997		96.1			98
Prior MR3b	1036	1154	68.26895	1023	1198	95.44997	1096	1216	68.26895	1044	1252	95.44997		90.5			98

Prior MR4b	1046	1201	68.26895	1038	1213	95.44997	1147	1237	68.26895	1060	1262	95.44997		90.2			98.2
Prior MR5b	1049	1214	68.26895	1040	1219	95.44997	1158	1236	68.26895	1060	1266	95.44998		100.2			98.5
Prior MR6b	1053	1221	68.26895	1045	1260	95.44997	1176	1238	68.26895	1071	1278	95.44997		112.3			97.9
Prior MR7b	995	1149	68.26895	993	1157	95.44997	1030	1173	68.26895	1020	1255	95.44997		87.8			98
Prior MR8b	1215	1267	68.26895	1168	1274	95.44997	1219	1262	68.26895	1181	1277	95.44997		105.9			98.1
Prior MR9b	1162	1252	68.26895	1051	1268	95.44997	1191	1255	68.26895	1164	1273	95.44997		109			98.6
Prior MR10b	1164	1252	68.26895	1052	1268	95.44997	1197	1257	68.26895	1165	1272	95.44997		109			98.5
Prior MR11b	1223	1266	68.26895	1178	1279	95.44997	1224	1260	68.26895	1184	1281	95.44997		102.4			98.7
Prior MR12b	1180	1263	68.26895	1162	1272	95.44997	1214	1263	68.26895	1176	1276	95.44997		108.1			98.4
Prior MR13b	1165	1253	68.26895	1052	1268	95.44997	1192	1258	68.26895	1166	1273	95.44997		108.7			98.5
Prior MR14b	1181	1266	68.26895	1166	1272	95.44997	1218	1263	68.26895	1179	1276	95.44997		107			98.9
Prior MR15b	1228	1277	68.26895	1216	1287	95.44997	1226	1259	68.26895	1216	1284	95.44997		93.6			99.3
Last MR1b R1 TmodC							1240	1272	68.26895	1227	1286	95.44997					98.8
Boundary TS2 MR1b Tau mod Char R1							1243	1277	68.26895	1229	1294	95.44997					96.5

2.26.3 – Dataset MR1b; Run 2; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.8 Aoverall 98.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-10	0	68.26895	-58	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.7	68.26895	3.47E-18	1.7	95.44997		100			97.2
Sequence																	
Tau_Boundary Model MR1b							1172	1227	68.26895	1133	1257	95.44997					98
Phase																	
Prior MR1b	1218	1266	68.26895	1168	1276	95.44997	1226	1270	68.26895	1184	1287	95.44997		107.7			98.5
Prior MR2b	1228	1275	68.26895	1182	1286	95.44997	1235	1273	68.26895	1220	1290	95.44997		102.4			99
Prior MR3b	1229	1278	68.26895	1218	1288	95.44997	1236	1274	68.26895	1222	1289	95.44997		98.5			99.1
Prior MR4b	1043	1159	68.26895	1029	1207	95.44997	1102	1219	68.26895	1044	1257	95.44997		88.6			98.3
Prior MR5b	1040	1156	68.26895	1027	1201	95.44997	1095	1215	68.26895	1040	1254	95.44997		90.7			98.4
Prior MR6b	1218	1266	68.26895	1168	1276	95.44997	1227	1270	68.26895	1183	1286	95.44997		107.9			98.5

Prior MR7b	1053	1221	68.26895	1045	1260	95.44997	1168	1256	68.26895	1058	1286	95.44997		108.2			98.4
Prior MR8b	1028	1151	68.26895	996	1160	95.44997	1083	1173	68.26895	1026	1256	95.44997		97.9			98.3
Prior MR9b	1053	1221	68.26895	1046	1261	95.44997	1170	1255	68.26895	1057	1285	95.44997		107.9			98.4
Prior MR10b	996	1149	68.26895	993	1157	95.44997	1030	1166	68.26895	998	1261	95.44997		91.1			98.2
Prior MR11b	1228	1276	68.26895	1215	1287	95.44997	1235	1273	68.26895	1221	1290	95.44997		101.6			98.6
Prior MR12b	1217	1267	68.26895	1168	1275	95.44997	1226	1270	68.26895	1183	1285	95.44997		107.9			98.6
Prior MR13b	1231	1287	68.26895	1221	1298	95.44997	1235	1279	68.26895	1225	1290	95.44997		85.3			98.2
Prior MR14b	1225	1267	68.26895	1179	1280	95.44997	1232	1271	68.26895	1206	1294	95.44997		105.5			98.8
Prior MR15b	1026	1151	68.26895	995	1159	95.44997	1083	1172	68.26895	1024	1249	95.44997		97.9			97.9
Last MR1b R2 TmodC							1257	1285	68.26895	1241	1298	95.44997					99.2
Boundary TS2 MR1b Tau mod Char R2							1261	1291	68.26895	1244	1309	95.44997					97.9

2.26.4 – Dataset MR1b; Run 3; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 90.9 Aoverall 85.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-13	0	68.26895	-67	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	0.0646	1.7	68.26895	3.47E-18	1.7	95.44997		100			95.9
Sequence																	
Tau_Boundary Model MR1b							1179	1233	68.26895	1140	1261	95.44997					95.2
Phase																	
Prior MR1b	1033	1152	68.26895	997	1165	95.44997	1085	1204	68.26895	1036	1255	95.44997		94.5			97.4
Prior MR2b	1043	1158	68.26895	1029	1207	95.44997	1105	1223	68.26895	1047	1260	95.44997		86.3			96.9
Prior MR3b	1158	1224	68.26895	1048	1265	95.44997	1185	1255	68.26895	1154	1292	95.44997		107			98.3
Prior MR4b	1046	1200	68.26895	1038	1213	95.44997	1135	1239	68.26895	1059	1267	95.44997		89.9			97.8
Prior MR5b	1224	1266	68.26895	1178	1279	95.44997	1229	1269	68.26895	1185	1293	95.44997		104.6			98.7
Prior MR6b	1049	1215	68.26895	1040	1219	95.44997	1158	1241	68.26895	1058	1278	95.44997		102.1			97.5

Prior MR7b	1234	1295	68.26895	1223	1378	95.44997	1232	1283	68.26895	1225	1294	95.44997		72.5			98.5
Prior MR8b	1050	1216	68.26895	1040	1220	95.44997	1159	1244	68.26895	1058	1277	95.44997		103.6			97.8
Prior MR9b	1232	1289	68.26895	1222	1375	95.44997	1232	1281	68.26895	1224	1292	95.44997		79.6			98.8
Prior MR10b	1053	1221	68.26895	1045	1260	95.44997	1174	1247	68.26895	1067	1290	95.44997		109.5			97.9
Prior MR11b	1049	1216	68.26895	1040	1220	95.44997	1158	1240	68.26895	1058	1278	95.44997		102.8			97.8
Prior MR12b	1228	1275	68.26895	1182	1286	95.44997	1232	1271	68.26895	1219	1293	95.44997		101			98.7
Prior MR13b	1222	1266	68.26895	1177	1279	95.44997	1228	1269	68.26895	1185	1292	95.44997		105.2			98.1
Prior MR14b	1047	1203	68.26895	1039	1215	95.44997	1139	1241	68.26895	1057	1268	95.44997		92.8			98.1
Prior MR15b	1229	1278	68.26895	1218	1287	95.44997	1232	1273	68.26895	1221	1291	95.44997		98.1			98.7
Last MR1b R3 TmodC							1246	1288	68.26895	1235	1301	95.44997					97.5
Boundary TS2 MR1b Tau mod Char R3							1253	1294	68.26895	1236	1310	95.44997					95.7

2.27.1 – Dataset MR1b; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MR1b");
    Phase()
    {
      Date(Prior("MR1b","MR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2b","MR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3b","MR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4b","MR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5b","MR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6b","MR6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7b","MR7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8b","MR8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9b","MR9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10b","MR10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11b","MR11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12b","MR12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13b","MR13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14b","MR14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15b","MR15b.prior"))
{

```

```

Outlier("Charcoal", 1);
};
Last("MR1b R1 Char");
};
Boundary("TS2 MR1b Char R1");
};
};

```

2.27.2 – Dataset MR1b; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R1 char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 99.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-20	1	68.26895	-109	1	95.44997					99.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.836	68.26895	3.60E-17	1.893	95.44997		100			96.1
Sequence																	
Boundary Model MR1b							1071	1240	68.26895	1037	1261	95.44997					95.8
Phase																	
Prior MR1b	1227	1274	68.26895	1182	1284	95.44997	1229	1269	68.26895	1185	1298	95.44997		97			99.5
Prior MR2b	1026	1151	68.26895	995	1159	95.44997	1108	1255	68.26895	1085	1279	95.44997		95.4			98.1
Prior MR3b	1036	1154	68.26895	1023	1198	95.44997	1116	1249	68.26895	1084	1280	95.44997		93.3			97.9

Prior MR4b	1046	1201	68.26895	1038	1213	95.44997	1138	1238	68.26895	1079	1284	95.44997		93.1			98.2
Prior MR5b	1049	1214	68.26895	1040	1219	95.44997	1154	1247	68.26895	1081	1286	95.44997		101.6			98.3
Prior MR6b	1053	1221	68.26895	1045	1260	95.44997	1167	1242	68.26895	1128	1290	95.44997		113.2			98.8
Prior MR7b	995	1149	68.26895	993	1157	95.44997	1107	1255	68.26895	1085	1280	95.44997		82.1			98.2
Prior MR8b	1215	1267	68.26895	1168	1274	95.44997	1218	1271	68.26895	1172	1287	95.44997		100.3			99.5
Prior MR9b	1162	1252	68.26895	1051	1268	95.44997	1183	1254	68.26895	1159	1286	95.44997		109.4			99.1
Prior MR10b	1164	1252	68.26895	1052	1268	95.44997	1184	1256	68.26895	1160	1285	95.44997		108.9			99.1
Prior MR11b	1223	1266	68.26895	1178	1279	95.44997	1225	1269	68.26895	1181	1290	95.44997		98.6			99.6
Prior MR12b	1180	1263	68.26895	1162	1272	95.44997	1208	1270	68.26895	1167	1284	95.44997		103			99.5
Prior MR13b	1165	1253	68.26895	1052	1268	95.44997	1185	1259	68.26895	1160	1285	95.44997		108.5			99.2
Prior MR14b	1181	1266	68.26895	1166	1272	95.44997	1214	1271	68.26895	1170	1285	95.44997		101.4			99.5
Prior MR15b	1228	1277	68.26895	1216	1287	95.44997	1229	1269	68.26895	1213	1301	95.44997		95.2			99.5
Last MR1b R1 Char							1247	1281	68.26895	1230	1306	95.44997					99.5
Boundary TS2 MR1b Char R1							1252	1294	68.26895	1233	1325	95.44997					98.6

2.27.3 – Dataset MR1b; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.7 Aoverall 97.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	1	68.26895	-128	1	95.44997					99.2
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.911	68.26895	3.60E-17	1.971	95.44997		100			87.5
Sequence																	
Boundary Model MR1b							1040	1250	68.26895	1009	1281	95.44997					89.2
Phase																	
Prior MR1b	1218	1266	68.26895	1168	1276	95.44997	1223	1277	68.26895	1175	1299	95.44997		101.6			97.3
Prior MR2b	1228	1275	68.26895	1182	1286	95.44997	1235	1279	68.26895	1214	1311	95.44997		100.4			98.5
Prior MR3b	1229	1278	68.26895	1218	1288	95.44997	1237	1281	68.26895	1220	1306	95.44997		98.8			98.8
Prior MR4b	1043	1159	68.26895	1029	1207	95.44997	1098	1273	68.26895	1067	1293	95.44997		94			90.6
Prior MR5b	1040	1156	68.26895	1027	1201	95.44997	1095	1277	68.26895	1068	1294	95.44997		95.7			90.7
Prior MR6b	1218	1266	68.26895	1168	1276	95.44997	1222	1277	68.26895	1175	1299	95.44997		101.6			97.5
Prior MR7b	1053	1221	68.26895	1045	1260	95.44997	1161	1266	68.26895	1066	1301	95.44997		108.8			92.6

Prior MR8b	1028	1151	68.26895	996	1160	95.44997	1089	1274	68.26895	1070	1298	95.44997		100.5			91.5
Prior MR9b	1053	1221	68.26895	1046	1261	95.44997	1162	1266	68.26895	1066	1303	95.44997		108.8			93
Prior MR10b	996	1149	68.26895	993	1157	95.44997	1089	1273	68.26895	1035	1298	95.44997		88			91.6
Prior MR11b	1228	1276	68.26895	1215	1287	95.44997	1235	1279	68.26895	1217	1309	95.44997		100.1			98.6
Prior MR12b	1217	1267	68.26895	1168	1275	95.44997	1222	1277	68.26895	1174	1298	95.44997		101.7			97.2
Prior MR13b	1231	1287	68.26895	1221	1298	95.44997	1237	1287	68.26895	1224	1305	95.44997		92.7			99.2
Prior MR14b	1225	1267	68.26895	1179	1280	95.44997	1230	1277	68.26895	1182	1303	95.44997		101.2			98.2
Prior MR15b	1026	1151	68.26895	995	1159	95.44997	1089	1274	68.26895	1045	1298	95.44997		99.8			91.6
Last MR1b R2 Char							1263	1293	68.26895	1245	1322	95.44997					99.4
Boundary TS2 MR1b Char R2							1268	1308	68.26895	1249	1346	95.44997					98.9

2.27.4 – Dataset MR1b; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1b R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.2 Aoverall 91.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-107	1	95.44997					99.8

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997										100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.018	1.809	68.26895	3.60E-17	1.905	95.44997		100		96.8
Sequence																
Boundary Model MR1b							1087	1202	68.26895	1036	1274	95.44997				95.1
Phase																
Prior MR1b	1033	1152	68.26895	997	1165	95.44997	1119	1220	68.26895	1086	1291	95.44997		88.6		97.8
Prior MR2b	1043	1158	68.26895	1029	1207	95.44997	1127	1239	68.26895	1086	1294	95.44997		84.5		98
Prior MR3b	1158	1224	68.26895	1048	1265	95.44997	1172	1253	68.26895	1154	1302	95.44997		111.3		98.6
Prior MR4b	1046	1200	68.26895	1038	1213	95.44997	1139	1239	68.26895	1079	1297	95.44997		91.4		98.1
Prior MR5b	1224	1266	68.26895	1178	1279	95.44997	1228	1274	68.26895	1182	1301	95.44997		100.7		99.6
Prior MR6b	1049	1215	68.26895	1040	1219	95.44997	1155	1241	68.26895	1077	1300	95.44998		104.9		98.2
Prior MR7b	1234	1295	68.26895	1223	1378	95.44997	1235	1289	68.26895	1225	1304	95.44997		83.6		99.7
Prior MR8b	1050	1216	68.26895	1040	1220	95.44997	1156	1241	68.26895	1076	1301	95.44997		106.5		98.3
Prior MR9b	1232	1289	68.26895	1222	1375	95.44997	1235	1286	68.26895	1224	1303	95.44997		87.5		99.7
Prior MR10b	1053	1221	68.26895	1045	1260	95.44997	1165	1242	68.26895	1135	1301	95.44997		113.4		98.6
Prior MR11b	1049	1216	68.26895	1040	1220	95.44997	1156	1241	68.26895	1077	1301	95.44997		105.7		98.2

Prior MR12b	1228	1275	68.26895	1182	1286	95.44997	1233	1277	68.26895	1215	1307	95.44997		99.4			99.8
Prior MR13b	1222	1266	68.26895	1177	1279	95.44997	1227	1274	68.26895	1182	1300	95.44997		100.8			99.7
Prior MR14b	1047	1203	68.26895	1039	1215	95.44997	1147	1241	68.26895	1079	1297	95.44997		94.7			98.1
Prior MR15b	1229	1278	68.26895	1218	1287	95.44997	1235	1278	68.26895	1220	1304	95.44997		97.9			99.7
Last MR1b R3 Char							1262	1297	68.26895	1238	1316	95.44997					99.6
Boundary TS2 MR1b Char R3							1266	1309	68.26895	1240	1336	95.44997					98.7

2.28.1 – Dataset MRR1b; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRR1b");
    Phase()
    {
      Date(Prior("MRR1b", "MRR1b.prior"));
      Date(Prior("MRR2b", "MRR2b.prior"));
      Date(Prior("MRR3b", "MRR3b.prior"));
      Date(Prior("MRR4b", "MRR4b.prior"));
      Date(Prior("MRR5b", "MRR5b.prior"));
      Date(Prior("MRR6b", "MRR6b.prior"));
      Date(Prior("MRR7b", "MRR7b.prior"));
      Date(Prior("MRR8b", "MRR8b.prior"));
      Date(Prior("MRR9b", "MRR9b.prior"));
      Date(Prior("MRR10b", "MRR10b.prior"));
      Last("MRR1b R1 Tua");
    };
    Boundary("TS2 MRR1b Tau R1");
  };
};
```

2.28.2 – Dataset MRR1b; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1b R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 121.1 Aoverall 121.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1b							1196	1233	68.26895	1163	1246	95.44997					98.2
Phase																	
Prior MRR1b	997	1150	68.26895	994	1157	95.44997	1089	1158	68.26895	1020	1216	95.44997		85.4			99.1
Prior MRR2b	1176	1260	68.26895	1053	1273	95.44997	1209	1258	68.26895	1173	1265	95.44997		107.8			99.3
Prior MRR3b	1163	1252	68.26895	1051	1268	95.44997	1199	1257	68.26895	1166	1263	95.44997		102.1			99.1
Prior MRR4b	1180	1263	68.26895	1162	1272	95.44997	1216	1258	68.26895	1178	1266	95.44997		112.6			99.1
Prior MRR5b	1221	1265	68.26895	1176	1278	95.44997	1221	1254	68.26895	1182	1271	95.44997		110.5			99.2
Prior MRR6b	1219	1266	68.26895	1168	1277	95.44997	1220	1255	68.26895	1181	1270	95.44997		112.1			99.2
Prior MRR7b	1166	1253	68.26895	1053	1269	95.44997	1203	1256	68.26895	1169	1264	95.44997		104			99.2
Prior MRR8b	1219	1266	68.26895	1168	1276	95.44997	1220	1255	68.26895	1180	1270	95.44997		112.5			99.4
Prior MRR9b	1226	1268	68.26895	1179	1281	95.44997	1222	1254	68.26895	1210	1273	95.44997		105.9			99.4

Prior MRR10b	1181	1265	68.26895	1165	1272	95.44997	1217	1257	68.26895	1179	1267	95.44997		113.6			99.4
Last MRR1b R1 Tau							1243	1267	68.26895	1226	1273	95.44997					99.2
Boundary TS2 MRR1b Tau R1							1245	1272	68.26895	1226	1282	95.44997					97.5

2.28.3 – Dataset MRR1b; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.6 Aoverall 92.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1b Phase							1205	1245	68.26895	1165	1258	95.44997					98.4
Prior MRR1b	1180	1263	68.26895	1162	1272	95.44997	1219	1264	68.26895	1179	1273	95.44997		108.9			99.4
Prior MRR2b	1047	1207	68.26895	1039	1216	95.44997	1155	1219	68.26895	1052	1257	95.44997		88.1			99.4
Prior MRR3b	1043	1159	68.26895	1030	1207	95.44997	1126	1217	68.26895	1052	1221	95.44997		76.1			99.1
Prior MRR4b	1229	1280	68.26895	1220	1290	95.44997	1230	1276	68.26895	1222	1280	95.44997		102.1			99.5
Prior MRR5b	1230	1281	68.26895	1220	1293	95.44997	1230	1277	68.26895	1223	1280	95.44997		100.4			99.5
Prior MRR6b	1220	1266	68.26895	1175	1277	95.44997	1228	1265	68.26895	1182	1277	95.44997		110.2			99.2
Prior MRR7b	1226	1270	68.26895	1180	1282	95.44997	1231	1268	68.26895	1218	1278	95.44997		106.5			99.3
Prior MRR8b	1229	1281	68.26895	1220	1291	95.44997	1230	1276	68.26895	1222	1280	95.44997		101.3			99.2

Prior MRR9b	1232	1290	68.26895	1222	1376	95.44997	1230	1279	68.26895	1224	1283	95.44997		92.1			99.5
Prior MRR10b	1162	1251	68.26895	1050	1269	95.44997	1192	1262	68.26895	1164	1267	95.44997		96.1			99.4
Last MRR1b R2 Tau							1260	1282	68.26895	1236	1287	95.44997					99.6
Boundary TS2 MRR1b Tau R2							1261	1290	68.26895	1236	1300	95.44997					98

2.28.4 – Dataset MRR1b; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1b R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 92.7 Aoverall 92.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C	
Sequence																		
Tau_Boundary Model MRR1b							1154	1217	68.26895	1087	1234	95.44997					97.6	
Phase																		
Prior MRR1b	1179	1263	68.26895	1161	1272	95.44997	1211	1262	68.26895	1169	1268	95.44997		107.7			99	
Prior MRR2b	1049	1214	68.26895	1040	1219	95.44997	1150	1220	68.26895	1048	1224	95.44997		99.4			99.1	
Prior MRR3b	1226	1269	68.26895	1180	1282	95.44997	1223	1258	68.26895	1183	1278	95.44997		104.2			99.3	
Prior MRR4b	1047	1203	68.26895	1039	1215	95.44997	1130	1218	68.26895	1048	1221	95.44997		93.8			99.2	
Prior MRR5b	993	1117	68.26895	906	1156	95.44997	997	1153	68.26895	992	1158	95.44997		76.1			99	

Prior MRR6b	1222	1266	68.26895	1177	1279	95.44997	1222	1258	68.26895	1180	1275	95.44997		106.6			99.2
Prior MRR7b	1219	1266	68.26895	1168	1277	95.44997	1221	1260	68.26895	1179	1273	95.44997		107.8			99.3
Prior MRR8b	993	1118	68.26895	978	1156	95.44997	999	1154	68.26895	992	1159	95.44997		77.9			98.7
Prior MRR9b	1226	1269	68.26895	1179	1281	95.44997	1224	1259	68.26895	1183	1278	95.44997		104.5			99.2
Prior MRR10b	1227	1270	68.26895	1180	1282	95.44997	1224	1258	68.26895	1210	1278	95.44997		103.7			99.6
Last MRR1b R3 Tua							1248	1273	68.26895	1233	1278	95.44997					99.5
Boundary TS2 MRR1b Tau R3							1250	1282	68.26895	1233	1300	95.44997					97.7

2.29.1 – Dataset MRR1b; Exponential Prior/50-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MRR1b");
    Phase()
    {
      Date(Prior("MRR1b","MRR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2b","MRR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3b","MRR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4b","MRR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5b","MRR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6b","MRR6b.prior"))
      {
```

```

Outlier("Charcoal", 1);
};
Date(Prior("MRR7b","MRR7b.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR8b","MRR8b.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR9b","MRR9b.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR10b","MRR10b.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MRR1b R1 TmodC");
};
Boundary("TS2 MRR1b Tau mod Char R1");
};
};

```

2.29.2 – Dataset MRR1b; Run 1; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 118.9 Aoverall 118.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-9	0	68.26895	-47	0	95.44997					99.9

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.0676	68.26895	3.47E-18	1.5623	95.44997		100			98.6
Sequence																	
Tau_Boundary Model MRR1b							1201	1245	68.26895	1169	1269	95.44997					96.4
Phase																	
Prior MRR1b	997	1150	68.26895	994	1157	95.44997	1087	1202	68.26895	1027	1274	95.44997		85			97.8
Prior MRR2b	1176	1260	68.26895	1053	1273	95.44997	1216	1264	68.26895	1177	1277	95.44997		108.1			98.4
Prior MRR3b	1163	1252	68.26895	1051	1268	95.44997	1208	1263	68.26895	1171	1275	95.44997		103.5			98.3
Prior MRR4b	1180	1263	68.26895	1162	1272	95.44997	1221	1264	68.26895	1181	1277	95.44997		111.8			98.9
Prior MRR5b	1221	1265	68.26895	1176	1278	95.44997	1227	1263	68.26895	1190	1283	95.44997		109.3			99
Prior MRR6b	1219	1266	68.26895	1168	1277	95.44997	1226	1263	68.26895	1185	1281	95.44997		110.7			98.8
Prior MRR7b	1166	1253	68.26895	1053	1269	95.44997	1212	1264	68.26895	1174	1275	95.44997		105.2			98.5
Prior MRR8b	1219	1266	68.26895	1168	1276	95.44997	1226	1263	68.26895	1185	1281	95.44997		111.2			98.7
Prior MRR9b	1226	1268	68.26895	1179	1281	95.44997	1229	1263	68.26895	1214	1283	95.44997		105			98.9
Prior MRR10b	1181	1265	68.26895	1165	1272	95.44997	1222	1263	68.26895	1184	1277	95.44997		112.5			98.7
Last MRR1b R1 TmodC							1246	1274	68.26895	1228	1285	95.44997					98.9
Boundary TS2 MRR1b Tau mod Char R1							1248	1278	68.26895	1230	1293	95.44997					96.3

2.29.3 – Dataset MRR1b; Run 2; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.8 Aoverall 92.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-10	0	68.26895	-53	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.3889	68.26895	3.47E-18	1.5946	95.44997		100			98.7
Sequence																	
Tau_Boundary Model MRR1b							1211	1259	68.26895	1174	1283	95.44997					97.2
Phase																	
Prior MRR1b	1180	1263	68.26895	1162	1272	95.44997	1224	1273	68.26895	1182	1288	95.44997		109.2			99
Prior MRR2b	1047	1207	68.26895	1039	1216	95.44997	1155	1260	68.26895	1066	1287	95.44997		88.1			98.2
Prior MRR3b	1043	1159	68.26895	1030	1207	95.44997	1120	1230	68.26895	1066	1284	95.44997		75.3			98.1
Prior MRR4b	1229	1280	68.26895	1220	1290	95.44997	1238	1281	68.26895	1225	1292	95.44997		101			99.2
Prior MRR5b	1230	1281	68.26895	1220	1293	95.44997	1239	1282	68.26895	1225	1292	95.44997		99.7			99.2
Prior MRR6b	1220	1266	68.26895	1175	1277	95.44997	1234	1275	68.26895	1204	1295	95.44997		110.3			99
Prior MRR7b	1226	1270	68.26895	1180	1282	95.44997	1238	1276	68.26895	1220	1293	95.44997		106.2			99.1
Prior MRR8b	1229	1281	68.26895	1220	1291	95.44997	1238	1281	68.26895	1225	1293	95.44997		100.3			99.1

Prior MRR9b	1232	1290	68.26895	1222	1376	95.44997	1237	1285	68.26895	1227	1294	95.44997		92.1			99
Prior MRR10b	1162	1251	68.26895	1050	1269	95.44997	1206	1270	68.26895	1167	1286	95.44997		97.1			98.4
Last MRR1b R2 TmodC							1263	1290	68.26895	1239	1303	95.44997					98.8
Boundary TS2 MRR1b Tau mod Char R2							1265	1297	68.26895	1240	1313	95.44997					96.5

2.29.4 – Dataset MRR1b; Run 3; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.5 Aoverall 90.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-10	0	68.26895	-51	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.105	68.26895	3.47E-18	1.6133	95.44997		100			98.3
Sequence																	
Tau_Boundary Model MRR1b							1160	1228	68.26895	1095	1258	95.44997					97.1
Phase																	
Prior MRR1b	1179	1263	68.26895	1161	1272	95.44997	1215	1269	68.26895	1172	1281	95.44997		107.2			99.1
Prior MRR2b	1049	1214	68.26895	1040	1219	95.44997	1139	1235	68.26895	1055	1264	95.44997		99.7			98.8

Prior MRR3b	1226	1269	68.26895	1180	1282	95.44997	1231	1269	68.26895	1209	1292	95.44997		103.3			99.2
Prior MRR4b	1047	1203	68.26895	1039	1215	95.44997	1132	1228	68.26895	1054	1258	95.44997		93.7			98.5
Prior MRR5b	993	1117	68.26895	906	1156	95.44997	1003	1160	68.26895	993	1241	95.44997		75.3			98.3
Prior MRR6b	1222	1266	68.26895	1177	1279	95.44997	1228	1268	68.26895	1184	1288	95.44997		105.6			99.3
Prior MRR7b	1219	1266	68.26895	1168	1277	95.44997	1225	1268	68.26895	1183	1285	95.44997		106.9			99.3
Prior MRR8b	993	1118	68.26895	978	1156	95.44997	1019	1161	68.26895	993	1241	95.44997		77.2			97.9
Prior MRR9b	1226	1269	68.26895	1179	1281	95.44997	1231	1269	68.26895	1210	1291	95.44997		103.7			99.4
Prior MRR10b	1227	1270	68.26895	1180	1282	95.44997	1231	1269	68.26895	1213	1291	95.44997		103			99.4
Last MRR1b R3 TmodC							1251	1280	68.26895	1235	1295	95.44997					99.4
Boundary TS2 MRR1b Tau mod Char R3							1255	1289	68.26895	1237	1313	95.44997					97.8

2.30.1 – Dataset MRR1b; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRR1b");
    Phase()
    {
      Date(Prior("MRR1b","MRR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2b","MRR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3b","MRR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4b","MRR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5b","MRR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6b","MRR6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7b","MRR7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8b","MRR8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9b","MRR9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10b","MRR10b.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1b R1 Char");
};
Boundary("TS2 MRR1b Char R1");
};
};

```

2.30.2 – Dataset MRR1b; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.6 Aoverall 108.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-27	1	68.26895	-106	1	95.44997					99.7

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.065	1.845	68.26895	3.60E-17	1.917	95.44997		100			99.2
Sequence																	
Boundary Model MRR1b							1194	1265	68.26895	1121	1277	95.44997					95.6
Phase																	
Prior MRR1b	997	1150	68.26895	994	1157	95.44997	1205	1274	68.26895	1139	1288	95.44997		68.9			98.9
Prior MRR2b	1176	1260	68.26895	1053	1273	95.44997	1222	1271	68.26895	1182	1288	95.44997		109.4			99.6
Prior MRR3b	1163	1252	68.26895	1051	1268	95.44997	1219	1271	68.26895	1178	1288	95.44997		107.2			99.4
Prior MRR4b	1180	1263	68.26895	1162	1272	95.44997	1225	1271	68.26895	1185	1289	95.44997		110.5			99.7
Prior MRR5b	1221	1265	68.26895	1176	1278	95.44997	1231	1271	68.26895	1204	1295	95.44997		105.6			99.8
Prior MRR6b	1219	1266	68.26895	1168	1277	95.44997	1230	1271	68.26895	1189	1294	95.44997		107.2			99.8
Prior MRR7b	1166	1253	68.26895	1053	1269	95.44997	1220	1271	68.26895	1180	1288	95.44997		108			99.5
Prior MRR8b	1219	1266	68.26895	1168	1276	95.44997	1229	1271	68.26895	1188	1293	95.44997		107.4			99.7
Prior MRR9b	1226	1268	68.26895	1179	1281	95.44997	1232	1271	68.26895	1214	1294	95.44997		102.1			99.8
Prior MRR10b	1181	1265	68.26895	1165	1272	95.44997	1227	1271	68.26895	1187	1289	95.44997		110.2			99.7
Last MRR1b R1 Char							1247	1282	68.26895	1226	1302	95.44997					99.5
Boundary TS2 MRR1b Char R1							1249	1289	68.26895	1226	1317	95.44997					98.3

2.30.3 – Dataset MRR1b; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 85.1 Aoverall 80.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-23	1	68.26895	-100	1	95.44997					99.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.72	1.86	68.26895	3.60E-17	1.875	95.44997		100			99
Sequence																	
Boundary Model MRR1b							1186	1273	68.26895	1128	1291	95.44997					95.5
Phase																	
Prior MRR1b	1180	1263	68.26895	1162	1272	95.44997	1226	1282	68.26895	1186	1301	95.44997		110			99.5
Prior MRR2b	1047	1207	68.26895	1039	1216	95.44997	1198	1283	68.26895	1159	1302	95.44997		83.6			99
Prior MRR3b	1043	1159	68.26895	1030	1207	95.44997	1196	1284	68.26895	1151	1303	95.44997		58			98.9
Prior MRR4b	1229	1280	68.26895	1220	1290	95.44997	1239	1284	68.26895	1224	1301	95.44997		97.2			99.7
Prior MRR5b	1230	1281	68.26895	1220	1293	95.44997	1239	1285	68.26895	1224	1302	95.44997		95.5			99.7
Prior MRR6b	1220	1266	68.26895	1175	1277	95.44997	1233	1281	68.26895	1203	1306	95.44997		108.8			99.6
Prior MRR7b	1226	1270	68.26895	1180	1282	95.44997	1236	1281	68.26895	1219	1304	95.44997		104.5			99.7
Prior MRR8b	1229	1281	68.26895	1220	1291	95.44997	1238	1285	68.26895	1224	1302	95.44997		96.5			99.7
Prior MRR9b	1232	1290	68.26895	1222	1376	95.44997	1237	1288	68.26895	1226	1303	95.44997		87.5			99.8
Prior MRR10b	1162	1251	68.26895	1050	1269	95.44997	1214	1281	68.26895	1178	1301	95.44997		102.1			99.3
Last MRR1b R2 Char							1262	1297	68.26895	1237	1317	95.44997					99.7
Boundary TS2 MRR1b Char R2							1264	1306	68.26895	1238	1335	95.44997					98

2.30.4 – Dataset MRR1b; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 81.6 Aoverall 79.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-32	1	68.26895	-170	1	95.44997					99.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.055	68.26895	3.60E-17	2.088	95.44997		100			97.1
Sequence																	
Boundary Model MRR1b							1021	1275	68.26895	973	1290	95.44997					93.1
Phase																	
Prior MRR1b	1179	1263	68.26895	1161	1272	95.44997	1212	1283	68.26895	1166	1308	95.44997		103.4			99.4
Prior MRR2b	1049	1214	68.26895	1040	1219	95.44997	1155	1282	68.26895	1060	1302	95.44997		100.2			97.9
Prior MRR3b	1226	1269	68.26895	1180	1282	95.44997	1232	1279	68.26895	1184	1319	95.44997		100.7			99.6
Prior MRR4b	1047	1203	68.26895	1039	1215	95.44997	1138	1282	68.26895	1059	1302	95.44997		95.7			97.6
Prior MRR5b	993	1117	68.26895	906	1156	95.44997	1090	1287	68.26895	1002	1309	95.44997		64.5			97.2
Prior MRR6b	1222	1266	68.26895	1177	1279	95.44997	1228	1279	68.26895	1181	1311	95.44997		101.3			99.7
Prior MRR7b	1219	1266	68.26895	1168	1277	95.44997	1225	1279	68.26895	1177	1310	95.44997		101.8			99.6
Prior MRR8b	993	1118	68.26895	978	1156	95.44997	1091	1287	68.26895	1005	1310	95.44997		68.4			97.2
Prior MRR9b	1226	1269	68.26895	1179	1281	95.44997	1232	1279	68.26895	1183	1318	95.44997		100.7			99.7
Prior MRR10b	1227	1270	68.26895	1180	1282	95.44997	1233	1279	68.26895	1185	1320	95.44997		100.5			99.7
Last MRR1b R3 Char							1252	1292	68.26895	1236	1336	95.44997					99.6
Boundary TS2 MRR1b Char R3							1259	1313	68.26895	1240	1377	95.44997					97.9

2.31.1 – Dataset MRRR1b; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRRR1b");
    Phase()
    {
      Date(Prior("MRRR1b", "MRRR1b.prior"));
      Date(Prior("MRRR2b", "MRRR2b.prior"));
      Date(Prior("MRRR3b", "MRRR3b.prior"));
      Date(Prior("MRRR4b", "MRRR4b.prior"));
      Date(Prior("MRRR5b", "MRRR5b.prior"));
      Last("MRRR1b R1 Tau");
    };
    Boundary("TS2 MRRR1b Tau R1");
  };
};
```

2.31.2 – Dataset MRRR1b; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1b R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.5 Aoverall 96.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	

Tau_Boundary Model MRRR1b							1110	1232	68.26895	879	1267	95.44997					97.4
Phase																	
Prior MRRR1b	1227	1273	68.26895	1181	1284	95.44997	1224	1268	68.26895	1213	1281	95.44997		101.4			99.7
Prior MRRR2b	995	1146	68.26895	992	1157	95.44997	1022	1154	68.26895	993	1160	95.44997		89.7			99.5
Prior MRRR3b	1230	1284	68.26895	1221	1296	95.44997	1226	1279	68.26895	1220	1286	95.44997		92.9			99.5
Prior MRRR4b	1053	1218	68.26895	1040	1225	95.44997	1158	1220	68.26895	1048	1260	95.44997		106			99.7
Prior MRRR5b	1160	1225	68.26895	1049	1267	95.44997	1166	1250	68.26895	1054	1268	95.44997		103.2			99.7
Last MRRR1b R1 Tau							1238	1280	68.26895	1226	1286	95.44997					99.6
Boundary TS2 MRRR1b Tau R1							1241	1302	68.26895	1225	1390	95.44997					96.9

2.31.3 – Dataset MRRR1b; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 103.2 Aoverall 102.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1b							1162	1236	68.26895	1018	1261	95.44997					98.3
Phase																	
Prior MRRR1b	1229	1280	68.26895	1219	1290	95.44997	1220	1270	68.26895	1182	1284	95.44997		86.7			99.7
Prior MRRR2b	1053	1217	68.26895	1040	1223	95.44997	1165	1221	68.26895	1051	1259	95.44997		105.9			99.7
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1219	1256	68.26895	1180	1276	95.44997		100.9			99.7

Prior MRRR4b	1053	1220	68.26895	1043	1258	95.44997	1169	1222	68.26895	1052	1263	95.44997		107.4			99.6
Prior MRRR5b	1054	1222	68.26895	1046	1262	95.44997	1170	1223	68.26895	1053	1264	95.44997		107			99.6
Last MRRR1b R2 Tau							1227	1266	68.26895	1218	1281	95.44997					99.6
Boundary TS2 MRRR1b Tau R2							1228	1281	68.26895	1209	1349	95.44997					98

2.31.4 – Dataset MRRR1b; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1b R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.9 Aoverall 98.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1b							1144	1229	68.26895	987	1255	95.44997					97.6
Phase																	
Prior MRRR1b	1181	1265	68.26895	1165	1272	95.44997	1183	1259	68.26895	1168	1267	95.44997		104.7			99.6
Prior MRRR2b	1038	1156	68.26895	1026	1200	95.44997	1092	1213	68.26895	1039	1218	95.44997		85.3			99.4
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1218	1259	68.26895	1177	1275	95.44997		95.2			99.6
Prior MRRR4b	1182	1266	68.26895	1167	1273	95.44997	1209	1260	68.26895	1169	1268	95.44997		103.3			99.5
Prior MRRR5b	1053	1218	68.26895	1040	1226	95.44997	1166	1220	68.26895	1051	1260	95.44997		109.6			99.7

Last MRRR1b R3 Tau							1228	1265	68.26895	1191	1277	95.44997					99.3
Boundary TS2 MRRR1b Tau R3							1226	1283	68.26895	1183	1342	95.44997					97.5

2.32.1 – Dataset MRRR1b; Exponential Prior/50-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MRRR1b");
    Phase()
    {
      Date(Prior("MRRR1b","MRRR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2b","MRRR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3b","MRRR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4b","MRRR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5b","MRRR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1b R1 TmodC");
    };
  };
};
```



```

Boundary("TS2 MRRR1b Tau mod Char R1");
};
};

```

2.32.2 – Dataset MRRR1b; Run 1; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97 Aoverall 97.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	0	68.26895	-62	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	0.0153	1.7	68.26895	3.47E-18	1.7	95.44997		100			99.5
Sequence																	
Tau_Boundary Model MRRR1b							1121	1252	68.26895	905	1289	95.44997					96.6
Phase																	
Prior MRRR1b	1227	1273	68.26895	1181	1284	95.44997	1232	1275	68.26895	1212	1309	95.44997		100.9			99.7
Prior MRRR2b	995	1146	68.26895	992	1157	95.44997	1024	1162	68.26895	995	1219	95.44997		89.3			99.1
Prior MRRR3b	1230	1284	68.26895	1221	1296	95.44997	1232	1284	68.26895	1222	1306	95.44997		93			99.6
Prior MRRR4b	1053	1218	68.26895	1040	1225	95.44997	1159	1239	68.26895	1053	1277	95.44997		106.8			99.5
Prior MRRR5b	1160	1225	68.26895	1049	1267	95.44997	1179	1258	68.26895	1056	1296	95.44997		104.1			99.5
Last MRRR1b R1 TmodC							1246	1288	68.26895	1227	1315	95.44997					99.6

Boundary TS2 MRRR1b Tau mod Char R1							1248	1317	68.26895	1230	1407	95.44997					96.8
---	--	--	--	--	--	--	------	------	----------	------	------	----------	--	--	--	--	------

2.32.3 – Dataset MRRR1b; Run 2; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R2 TmodC	Unmod elled (BC/AD)						Modelled (BC/AD)						Indices Amodel 105 Aoverall 104.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	0	68.26895	-56	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	0.068	1.53	68.26895	3.47E-18	1.6065	95.44997		100			99.5
Sequence																	
Tau_Boundary Model MRRR1b							1174	1251	68.26895	1035	1284	95.44997					97.5
Phase																	
Prior MRRR1b	1229	1280	68.26895	1219	1290	95.44997	1225	1271	68.26895	1214	1302	95.44997		88.1			99.5
Prior MRRR2b	1053	1217	68.26895	1040	1223	95.44997	1167	1239	68.26895	1055	1280	95.44997		107.1			99.4
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1223	1265	68.26895	1183	1291	95.44997		101.1			99.5
Prior MRRR4b	1053	1220	68.26895	1043	1258	95.44997	1173	1241	68.26895	1057	1284	95.44997		108.9			99.4

Prior MRRR5b	1054	1222	68.26895	1046	1262	95.44997	1179	1246	68.26895	1059	1289	95.44997		108.3			99.5
Last MRRR1b R2 TmodC							1233	1276	68.26895	1219	1304	95.44997					99.4
Boundary TS2 MRRR1b Tau mod Char R2							1233	1291	68.26895	1216	1362	95.44997					96.8

2.32.4 – Dataset MRRR1b; Run 3; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.8 Aoverall 99.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-11	0	68.26895	-56	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,1.7)	-3.47E-18	1.7	68.26895	-3.47E-18	1.7	95.44997	3.47E-18	1.4314	68.26895	3.47E-18	1.6099	95.44997		100			99.7
Sequence																	
Tau_Boundary Model MRRR1b							1154	1245	68.26895	1000	1281	95.44997					97.4
Phase																	
Prior MRRR1b	1181	1265	68.26895	1165	1272	95.44997	1212	1267	68.26895	1171	1282	95.44997		104.3			99.5
Prior MRRR2b	1038	1156	68.26895	1026	1200	95.44997	1099	1220	68.26895	1040	1249	95.44997		86			99.4
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1222	1268	68.26895	1181	1287	95.44997		96.1			99.5
Prior MRRR4b	1182	1266	68.26895	1167	1273	95.44997	1214	1268	68.26895	1173	1284	95.44997		103			99.3

Prior MRRR5b	1053	1218	68.26895	1040	1226	95.44997	1166	1234	68.26895	1055	1278	95.44997		110.2			99.4
Last MRRR1b R3 TmodC							1231	1274	68.26895	1203	1304	95.44997					99.5
Boundary TS2 MRRR1b Tau mod Char R3							1232	1293	68.26895	1188	1358	95.44997					96.9

2.33.1 – Dataset MRRR1b; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRRR1b");
    Phase()
    {
      Date(Prior("MRRR1b","MRRR1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2b","MRRR2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3b","MRRR3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4b","MRRR4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5b","MRRR5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1b R1 Char");
    };
    Boundary("TS2 MRRR1b Char R1");
  };
};
```

2.33.2 – Dataset MRRR1b; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 94.6 Aoverall 94.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-35	1	68.26895	-175	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.063	2.097	68.26895	3.60E-17	2.232	95.44997		100			98.7
Sequence																	
Boundary Model MRRR1b							1023	1257	68.26895	864	1329	95.44997					95.1
Phase																	
Prior MRRR1b	1227	1273	68.26895	1181	1284	95.44997	1229	1284	68.26895	1183	1358	95.44997		99.2			99.7
Prior MRRR2b	995	1146	68.26895	992	1157	95.44997	1033	1279	68.26895	1000	1329	95.44997		83.5			99.1
Prior MRRR3b	1230	1284	68.26895	1221	1296	95.44997	1234	1291	68.26895	1220	1362	95.44997		94			99.7
Prior MRRR4b	1053	1218	68.26895	1040	1225	95.44997	1158	1273	68.26895	1054	1331	95.44997		106.9			99.4
Prior MRRR5b	1160	1225	68.26895	1049	1267	95.44997	1174	1267	68.26895	1056	1357	95.44997		105.7			99.5
Last MRRR1b R1 Char							1241	1300	68.26895	1225	1392	95.44997					99.7
Boundary TS2 MRRR1b Char R1							1251	1360	68.26895	1230	1530	95.44997					97.8

2.33.3 – Dataset MRRR1b; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 110 Aoverall 108.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-81	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.449	68.26895	3.60E-17	1.914	95.44997		100			99.3
Sequence																	
Boundary Model MRRR1b							1143	1233	68.26895	1042	1279	95.44997					96
Phase																	
Prior MRRR1b	1229	1280	68.26895	1219	1290	95.44997	1225	1274	68.26895	1185	1309	95.44997		87			99.6
Prior MRRR2b	1053	1217	68.26895	1040	1223	95.44997	1177	1242	68.26895	1136	1298	95.44997		111.4			99.4
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1222	1268	68.26895	1182	1296	95.44997		97.7			99.6
Prior MRRR4b	1053	1220	68.26895	1043	1258	95.44997	1181	1245	68.26895	1152	1300	95.44997		114.1			99.5
Prior MRRR5b	1054	1222	68.26895	1046	1262	95.44997	1182	1246	68.26895	1157	1295	95.44997		113.8			99.4
Last MRRR1b R2 Char							1232	1278	68.26895	1216	1322	95.44997					99.4
Boundary TS2 MRRR1b Char R2							1233	1302	68.26895	1214	1400	95.44997					97.2

2.33.4 – Dataset MRRR1b; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1b R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.4 Aoverall 91.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-22	1	68.26895	-118	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.776	68.26895	3.60E-17	2.067	95.44997		100			99.5
Sequence																	
Boundary Model MRRR1b							1098	1242	68.26895	967	1292	95.44997					96.8
Phase																	
Prior MRRR1b	1181	1265	68.26895	1165	1272	95.44997	1189	1271	68.26895	1166	1308	95.44997		100.7			99.8
Prior MRRR2b	1038	1156	68.26895	1026	1200	95.44997	1132	1243	68.26895	1063	1304	95.44997		76.9			99.5
Prior MRRR3b	1224	1266	68.26895	1178	1279	95.44997	1220	1276	68.26895	1175	1313	95.44997		92.6			99.7
Prior MRRR4b	1182	1266	68.26895	1167	1273	95.44997	1207	1273	68.26895	1167	1309	95.44997		98.9			99.7
Prior MRRR5b	1053	1218	68.26895	1040	1226	95.44997	1166	1245	68.26895	1060	1319	95.44997		112.8			99.7
Last MRRR1b R3 Char							1226	1280	68.26895	1186	1337	95.44997					99.7
Boundary TS2 MRRR1b Char R3							1228	1317	68.26895	1186	1432	95.44997					97.8

2.34.1 – Dataset MR1c; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MR1c");
    Phase()
    {
      Date(Prior("MR1c", "MR1c.prior"));
      Date(Prior("MR2c", "MR2c.prior"));
      Date(Prior("MR3c", "MR3c.prior"));
      Date(Prior("MR4c", "MR4c.prior"));
      Date(Prior("MR5c", "MR5c.prior"));
      Date(Prior("MR6c", "MR6c.prior"));
      Date(Prior("MR7c", "MR7c.prior"));
      Date(Prior("MR8c", "MR8c.prior"));
      Date(Prior("MR9c", "MR9c.prior"));
      Date(Prior("MR10c", "MR10c.prior"));
      Date(Prior("MR11c", "MR11c.prior"));
      Date(Prior("MR12c", "MR12c.prior"));
      Date(Prior("MR13c", "MR13c.prior"));
      Date(Prior("MR14c", "MR14c.prior"));
      Date(Prior("MR15c", "MR15c.prior"));
      Last("MR1c R1 Tua");
    };
    Boundary("TS2 MR1c Tau R1");
  };
};
```

2.34.2 – Dataset MR1c; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1c R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.4 Aoverall 99.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1c							1164	1210	68.26895	1123	1225	95.44997					98.2
Phase																	
Prior MR1c	1042	1157	68.26895	1027	1202	95.44997	1091	1207	68.26895	1041	1216	95.44997		89.6			98.7
Prior MR2c	1047	1207	68.26895	1039	1216	95.44997	1133	1219	68.26895	1049	1222	95.44997		94.1			99.2
Prior MR3c	1227	1270	68.26895	1180	1282	95.44997	1223	1255	68.26895	1209	1277	95.44997		103.8			99.5
Prior MR4c	1224	1266	68.26895	1179	1279	95.44997	1222	1256	68.26895	1181	1275	95.44997		105.9			99.5
Prior MR5c	1226	1269	68.26895	1180	1282	95.44997	1223	1256	68.26895	1183	1276	95.44997		104.4			99.3
Prior MR6c	1160	1226	68.26895	1049	1268	95.44997	1174	1252	68.26895	1156	1265	95.44997		104.6			99.3
Prior MR7c	1178	1261	68.26895	1055	1273	95.44997	1205	1259	68.26895	1168	1266	95.44997		107.1			99.1
Prior MR8c	1023	1151	68.26895	995	1158	95.44997	1086	1156	68.26895	997	1198	95.44997		96.7			99
Prior MR9c	1227	1271	68.26895	1180	1283	95.44997	1223	1255	68.26895	1210	1277	95.44997		103.4			99.2

Prior MR10c	1031	1152	68.26895	997	1162	95.44997	1086	1158	68.26895	1025	1202	95.44997		97.2			99.1
Prior MR11c	1032	1152	68.26895	997	1164	95.44997	1086	1159	68.26895	1028	1207	95.44997		96.5			99.3
Prior MR12c	1047	1202	68.26895	1039	1214	95.44997	1132	1218	68.26895	1050	1221	95.44997		92.7			99
Prior MR13c	1054	1222	68.26895	1046	1262	95.44997	1167	1222	68.26895	1054	1264	95.44997		107.6			99.3
Prior MR14c	1229	1279	68.26895	1219	1288	95.44997	1224	1256	68.26895	1219	1276	95.44997		94.1			99.2
Prior MR15c	1226	1269	68.26895	1179	1281	95.44997	1223	1256	68.26895	1183	1276	95.44997		104.4			99.1
Last MR1c R1 Tua							1246	1272	68.26895	1233	1278	95.44997					99.2
Boundary TS2 MR1c Tau R1							1248	1277	68.26895	1234	1289	95.44997					97.8

2.34.3 – Dataset MR1c; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1c R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.6 Aoverall 103.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1c							1036	1133	68.26895	951	1163	95.44997					98.8

Phase																	
Prior MR1c	1176	1260	68.26895	1053	1273	95.44997	1176	1248	68.26895	1159	1265	95.44997		105.5			99.5
Prior MR2c	1178	1260	68.26895	1054	1273	95.44997	1178	1249	68.26895	1161	1264	95.44997		104.9			99.5
Prior MR3c	1178	1261	68.26895	1055	1273	95.44997	1179	1248	68.26895	1161	1264	95.44997		104.6			99.6
Prior MR4c	667	773	68.26895	653	796	95.44997	669	773	68.26895	656	821	95.44997		98.2			99.4
Prior MR5c	1162	1251	68.26895	1050	1268	95.44997	1168	1224	68.26895	1053	1265	95.44997		107			99.6
Prior MR6c	1053	1218	68.26895	1040	1225	95.44997	1156	1220	68.26895	1046	1251	95.44997		106.5			99.6
Prior MR7c	1026	1151	68.26895	996	1159	95.44997	1033	1155	68.26895	996	1163	95.44997		99.9			99.5
Prior MR8c	1054	1222	68.26895	1047	1263	95.44997	1165	1220	68.26895	1050	1261	95.44997		107.8			99.6
Prior MR9c	1229	1281	68.26895	1220	1291	95.44997	1220	1252	68.26895	1182	1281	95.44997		81.3			99.5
Prior MR10c	894	992	68.26895	776	1021	95.44997	898	994	68.26895	887	1021	95.44997		100.6			99.3
Prior MR11c	997	1150	68.26895	994	1157	95.44997	1024	1153	68.26895	995	1159	95.44997		97.8			99.5
Prior MR12c	776	977	68.26895	775	992	95.44997	888	990	68.26895	776	994	95.44997		104.2			99.4
Prior MR13c	1024	1151	68.26895	995	1158	95.44997	1030	1154	68.26895	996	1161	95.44997		99.7			99.5
Prior MR14c	898	1019	68.26895	892	1023	95.44997	904	1021	68.26895	893	1025	95.44997		101.3			99.3
Prior MR15c	1046	1199	68.26895	1036	1213	95.44997	1053	1212	68.26895	1045	1217	95.44997		96.1			99.6
Last MR1c R2 Tau							1226	1259	68.26895	1219	1277	95.44997					99.5
Boundary TS2 MR1c Tau R2							1233	1273	68.26895	1220	1303	95.44997					97.8

2.34.4 – Dataset MR1c; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1c R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 85.7 Aoverall 85.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1c							1138	1173	68.26895	1106	1189	95.44997					99
Phase																	
Prior MR1c	1033	1152	68.26895	997	1165	95.44997	1101	1164	68.26895	1032	1202	95.44997		94.3			99.6
Prior MR2c	1049	1214	68.26895	1040	1219	95.44997	1153	1207	68.26895	1054	1219	95.44997		108			99.6
Prior MR3c	1051	1216	68.26895	1040	1221	95.44997	1155	1205	68.26895	1053	1220	95.44997		113.6			99.7
Prior MR4c	1160	1226	68.26895	1049	1268	95.44997	1163	1201	68.26895	1133	1231	95.44997		119.3			99.4
Prior MR5c	1053	1219	68.26895	1041	1253	95.44997	1159	1202	68.26895	1054	1223	95.44997		120.9			99.6
Prior MR6c	1226	1268	68.26895	1179	1281	95.44997	1165	1225	68.26895	1162	1233	95.44997		26.7			99.5
Prior MR7c	1027	1151	68.26895	996	1160	95.44997	1102	1160	68.26895	1025	1199	95.44997		95.2			99.5
Prior MR8c	1176	1260	68.26895	1053	1273	95.44997	1163	1205	68.26895	1156	1229	95.44997		101.2			99.7
Prior MR9c	1037	1155	68.26895	1025	1199	95.44997	1103	1176	68.26895	1044	1208	95.44997		90.9			99.6

Prior MR10c	1022	1151	68.26895	995	1157	95.44997	1102	1159	68.26895	1021	1176	95.44997		92.7			99.5
Prior MR11c	1043	1159	68.26895	1030	1207	95.44997	1116	1201	68.26895	1052	1213	95.44997		88.5			99.7
Prior MR12c	1158	1224	68.26895	1048	1265	95.44997	1162	1201	68.26895	1055	1228	95.44997		121.2			99.6
Prior MR13c	1028	1151	68.26895	996	1160	95.44997	1102	1161	68.26895	1027	1200	95.44997		95.3			99.5
Prior MR14c	1158	1223	68.26895	1048	1265	95.44997	1162	1202	68.26895	1056	1228	95.44997		121.5			99.6
Prior MR15c	1053	1219	68.26895	1042	1254	95.44997	1159	1202	68.26895	1054	1223	95.44997		121.1			99.5
Last MR1c R3 Tau							1183	1221	68.26895	1168	1236	95.44997					99.3
Boundary TS2 MR1c Tau R3							1184	1225	68.26895	1169	1243	95.44997					97.7

2.35.1 – Dataset MR1c; Exponential Prior/100-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2),"t");
  Sequence()
  {
    Tau_Boundary("Model MR1c");
    Phase()
    {
      Date(Prior("MR1c","MR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2c","MR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3c","MR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4c","MR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5c","MR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6c","MR6c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR7c","MR7c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR8c","MR8c.prior"))
      {
        Outlier("Charcoal", 1);
      };
    }
  }
}
```

```

};
Date(Prior("MR9c","MR9c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR10c","MR10c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR11c","MR11c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR12c","MR12c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR13c","MR13c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR14c","MR14c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MR15c","MR15c.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MR1c R1 TmodC");
};
Boundary("TS2 MR1c Tau mod Char R1");
};
};

```


2.35.2 – Dataset MR1c; Run 1; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

NameTS2 MR1c R1 T mod C	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.8 Aoverall 99.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-93	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	2.69E-17	1.678	68.26895	2.69E-17	1.826	95.44997		100			98.3
Sequence																	
Tau_Boundary Model MR1c							1167	1229	68.26895	1135	1270	95.44997					98
Phase																	
Prior MR1c	1042	1157	68.26895	1027	1202	95.44997	1098	1220	68.26895	1051	1274	95.44997		89.5			99.1
Prior MR2c	1047	1207	68.26895	1039	1216	95.44997	1138	1255	68.26895	1059	1279	95.44997		94.3			99.1
Prior MR3c	1227	1270	68.26895	1180	1282	95.44997	1231	1269	68.26895	1215	1292	95.44997		102.7			99.5
Prior MR4c	1224	1266	68.26895	1179	1279	95.44997	1230	1269	68.26895	1205	1292	95.44997		104.7			99.4
Prior MR5c	1226	1269	68.26895	1180	1282	95.44997	1231	1269	68.26895	1214	1292	95.44997		103.2			99.3
Prior MR6c	1160	1226	68.26895	1049	1268	95.44997	1193	1262	68.26895	1161	1285	95.44997		106.1			99.3

Prior MR7c	1178	1261	68.26895	1055	1273	95.44997	1213	1269	68.26895	1173	1284	95.44997		107			99.4
Prior MR8c	1023	1151	68.26895	995	1158	95.44997	1035	1179	68.26895	1026	1278	95.44997		96.6			98.9
Prior MR9c	1227	1271	68.26895	1180	1283	95.44997	1231	1269	68.26895	1216	1291	95.44997		102.6			99.5
Prior MR10c	1031	1152	68.26895	997	1162	95.44997	1081	1207	68.26895	1035	1274	95.44997		97.2			99.1
Prior MR11c	1032	1152	68.26895	997	1164	95.44997	1082	1210	68.26895	1038	1275	95.44997		96.6			99.1
Prior MR12c	1047	1202	68.26895	1039	1214	95.44997	1135	1255	68.26895	1061	1278	95.44997		92.8			99
Prior MR13c	1054	1222	68.26895	1046	1262	95.44997	1178	1259	68.26895	1067	1291	95.44997		109			99.2
Prior MR14c	1229	1279	68.26895	1219	1288	95.44997	1233	1270	68.26895	1222	1288	95.44997		94.2			99.5
Prior MR15c	1226	1269	68.26895	1179	1281	95.44997	1231	1269	68.26895	1212	1292	95.44997		103.4			99.5
Last MR1c R1 TmodC							1251	1281	68.26895	1237	1295	95.44997					99.3
Boundary TS2 MR1c Tau mod Char R1							1254	1287	68.26895	1239	1303	95.44997					98.6

2.35.3 – Dataset MR1c; Run 2; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1c R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.9 Aoverall 103.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	1	68.26895	-105	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	2.69E-17	2	68.26895	2.69E-17	2	95.44997		100			97.6
Sequence																	
Tau_Boundary Model MR1c							1046	1155	68.26895	960	1215	95.44997					97.9
Phase																	
Prior MR1c	1176	1260	68.26895	1053	1273	95.44997	1186	1259	68.26895	1161	1293	95.44997		104.7			99
Prior MR2c	1178	1260	68.26895	1054	1273	95.44997	1187	1262	68.26895	1162	1291	95.44997		103.9			99.1
Prior MR3c	1178	1261	68.26895	1055	1273	95.44997	1187	1262	68.26895	1163	1290	95.44997		103.5			99.1
Prior MR4c	667	773	68.26895	653	796	95.44997	673	782	68.26895	654	983	95.44997		98.1			98.5
Prior MR5c	1162	1251	68.26895	1050	1268	95.44997	1179	1250	68.26895	1057	1295	95.44997		106.9			99.3
Prior MR6c	1053	1218	68.26895	1040	1225	95.44997	1157	1244	68.26895	1053	1271	95.44997		106.2			99.2
Prior MR7c	1026	1151	68.26895	996	1159	95.44997	1035	1167	68.26895	1001	1248	95.44997		100.2			99.1
Prior MR8c	1054	1222	68.26895	1047	1263	95.44997	1166	1239	68.26895	1054	1284	95.44997		107.6			99.2
Prior MR9c	1229	1281	68.26895	1220	1291	95.44997	1226	1268	68.26895	1215	1304	95.44997		83.8			99.2
Prior MR10c	894	992	68.26895	776	1021	95.44997	908	1018	68.26895	881	1181	95.44997		100.6			98.5
Prior MR11c	997	1150	68.26895	994	1157	95.44997	1027	1163	68.26895	997	1230	95.44997		97.8			99
Prior MR12c	776	977	68.26895	775	992	95.44997	890	997	68.26895	776	1131	95.44997		104.3			98.6
Prior MR13c	1024	1151	68.26895	995	1158	95.44997	1032	1166	68.26895	999	1242	95.44997		99.8			98.7
Prior MR14c	898	1019	68.26895	892	1023	95.44997	906	1033	68.26895	889	1163	95.44997		101.4			98.3
Prior MR15c	1046	1199	68.26895	1036	1213	95.44997	1069	1222	68.26895	1043	1254	95.44997		96.6			99.1
Last MR1c R2 TmodC							1233	1276	68.26895	1220	1307	95.44997					99.1
Boundary TS2 MR1c Tau mod Char R2							1240	1289	68.26895	1225	1325	95.44997					98

2.35.4 – Dataset MR1c; Run 3; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1c R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.5 Aoverall 91.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-80	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	2.69E-17	1.66	68.26895	2.69E-17	1.778	95.44997		100			98.6
Sequence																	
Tau_Boundary Model MR1c							1144	1193	68.26895	1114	1227	95.44997					98.9
Phase																	
Prior MR1c	1033	1152	68.26895	997	1165	95.44997	1114	1203	68.26895	1043	1236	95.44997		95.4			99.1
Prior MR2c	1049	1214	68.26895	1040	1219	95.44997	1159	1218	68.26895	1067	1244	95.44997		107.3			99.1
Prior MR3c	1051	1216	68.26895	1040	1221	95.44997	1162	1218	68.26895	1066	1247	95.44997		112.6			99.4
Prior MR4c	1160	1226	68.26895	1049	1268	95.44997	1171	1217	68.26895	1154	1256	95.44997		118.5			99.4
Prior MR5c	1053	1219	68.26895	1041	1253	95.44997	1167	1216	68.26895	1066	1253	95.44997		119.5			99.4
Prior MR6c	1226	1268	68.26895	1179	1281	95.44997	1177	1232	68.26895	1165	1251	95.44997		33.9			99.2

Prior MR7c	1027	1151	68.26895	996	1160	95.44997	1106	1198	68.26895	1034	1237	95.44997		96.2			99
Prior MR8c	1176	1260	68.26895	1053	1273	95.44997	1173	1218	68.26895	1160	1249	95.44997		101.7			99.3
Prior MR9c	1037	1155	68.26895	1025	1199	95.44997	1123	1209	68.26895	1051	1238	95.44997		92.1			99.2
Prior MR10c	1022	1151	68.26895	995	1157	95.44997	1105	1196	68.26895	1028	1237	95.44997		93.4			98.7
Prior MR11c	1043	1159	68.26895	1030	1207	95.44997	1133	1215	68.26895	1063	1237	95.44997		89.6			99.2
Prior MR12c	1158	1224	68.26895	1048	1265	95.44997	1170	1217	68.26895	1136	1256	95.44997		120.1			99.4
Prior MR13c	1028	1151	68.26895	996	1160	95.44997	1108	1197	68.26895	1036	1235	95.44997		96.3			99
Prior MR14c	1158	1223	68.26895	1048	1265	95.44997	1170	1217	68.26895	1136	1257	95.44997		120.3			99.3
Prior MR15c	1053	1219	68.26895	1042	1254	95.44997	1167	1217	68.26895	1067	1253	95.44997		119.7			99.4
Last MR1c R3 TmodC							1188	1232	68.26895	1173	1258	95.44997					98.5
Boundary TS2 MR1c Tau mod Char R3							1191	1237	68.26895	1174	1263	95.44997					97.4

2.36.1 – Dataset MR1c; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MR1c");
    Phase()
    {
      Date(Prior("MR1c", "MR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2c", "MR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3c", "MR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4c", "MR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5c", "MR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6c", "MR6c.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7c","MR7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8c","MR8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9c","MR9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10c","MR10c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11c","MR11c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12c","MR12c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13c","MR13c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14c","MR14c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15c","MR15c.prior"))
{

```

```

Outlier("Charcoal", 1);
};
Last("MR1c R1 Char");
};
Boundary("TS2 MR1c Char R1");
};
};

```

2.36.2 – Dataset MR1c; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1c R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.7 Aoverall 99				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-23	1	68.26895	-138	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.959	68.26895	3.60E-17	2.004	95.44997		100			96.3
Sequence																	
Boundary Model MR1c							1063	1263	68.26895	1027	1276	95.44997					95.3
Phase																	
Prior MR1c	1042	1157	68.26895	1027	1202	95.44997	1113	1277	68.26895	1077	1292	95.44997		93			97.2
Prior MR2c	1047	1207	68.26895	1039	1216	95.44997	1136	1271	68.26895	1073	1292	95.44997		95.8			97.3
Prior MR3c	1227	1270	68.26895	1180	1282	95.44997	1233	1275	68.26895	1184	1303	95.44997		100.4			99.6
Prior MR4c	1224	1266	68.26895	1179	1279	95.44997	1230	1275	68.26895	1182	1299	95.44997		101			99.7
Prior MR5c	1226	1269	68.26895	1180	1282	95.44997	1232	1275	68.26895	1184	1302	95.44997		100.5			99.7

Prior MR6c	1160	1226	68.26895	1049	1268	95.44997	1179	1267	68.26895	1155	1301	95.44997		107.9			98.5
Prior MR7c	1178	1261	68.26895	1055	1273	95.44997	1207	1275	68.26895	1166	1291	95.44997		104.3			99
Prior MR8c	1023	1151	68.26895	995	1158	95.44997	1104	1276	68.26895	1081	1294	95.44997		96			97.6
Prior MR9c	1227	1271	68.26895	1180	1283	95.44997	1233	1275	68.26895	1185	1303	95.44997		100.2			99.7
Prior MR10c	1031	1152	68.26895	997	1162	95.44997	1104	1276	68.26895	1080	1293	95.44997		98.9			97.5
Prior MR11c	1032	1152	68.26895	997	1164	95.44997	1104	1276	68.26895	1080	1293	95.44997		98.5			97.4
Prior MR12c	1047	1202	68.26895	1039	1214	95.44997	1135	1271	68.26895	1075	1291	95.44997		94.6			97.4
Prior MR13c	1054	1222	68.26895	1046	1262	95.44997	1168	1266	68.26895	1075	1301	95.44997		110.3			98.2
Prior MR14c	1229	1279	68.26895	1219	1288	95.44997	1236	1278	68.26895	1221	1300	95.44997		95.6			99.7
Prior MR15c	1226	1269	68.26895	1179	1281	95.44997	1232	1275	68.26895	1183	1301	95.44997		100.6			99.7
Last MR1c R1 Char							1255	1287	68.26895	1239	1313	95.44997					99.7
Boundary TS2 MR1c Char R1							1260	1300	68.26895	1242	1332	95.44997					98.8

2.36.3 – Dataset MR1c; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1c R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.2 Aoverall 100.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-133	1	68.26895	-399	1	95.44997					71.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.863	2.403	68.26895	0.054	2.577	95.44997		100			88.7
Sequence																	

Boundary Model MR1c							755	1286	68.26895	700	1294	95.44997				79
Phase																
Prior MR1c	1176	1260	68.26895	1053	1273	95.44997	1212	1295	68.26895	1164	1356	95.44997		101.6		96.3
Prior MR2c	1178	1260	68.26895	1054	1273	95.44997	1214	1296	68.26895	1166	1354	95.44997		101		96.8
Prior MR3c	1178	1261	68.26895	1055	1273	95.44997	1215	1295	68.26895	1167	1355	95.44997		100.6		96.9
Prior MR4c	667	773	68.26895	653	796	95.44997	750	1319	68.26895	738	1337	95.44997		92.1		87.7
Prior MR5c	1162	1251	68.26895	1050	1268	95.44997	1202	1293	68.26895	1064	1363	95.44997		104.1		94.3
Prior MR6c	1053	1218	68.26895	1040	1225	95.44997	1183	1294	68.26895	1060	1334	95.44997		102.9		91.6
Prior MR7c	1026	1151	68.26895	996	1159	95.44997	1121	1293	68.26895	1030	1326	95.44997		100.4		85
Prior MR8c	1054	1222	68.26895	1047	1263	95.44997	1193	1292	68.26895	1060	1347	95.44997		104		92.1
Prior MR9c	1229	1281	68.26895	1220	1291	95.44997	1239	1298	68.26895	1222	1358	95.44997		91.1		99.1
Prior MR10c	894	992	68.26895	776	1021	95.44997	916	1311	68.26895	900	1324	95.44997		100.7		82.1
Prior MR11c	997	1150	68.26895	994	1157	95.44997	1119	1295	68.26895	1021	1330	95.44997		98.7		84.5
Prior MR12c	776	977	68.26895	775	992	95.44997	923	1313	68.26895	880	1340	95.44997		104.6		84
Prior MR13c	1024	1151	68.26895	995	1158	95.44997	1118	1294	68.26895	1028	1327	95.44997		100.2		85.2
Prior MR14c	898	1019	68.26895	892	1023	95.44997	968	1310	68.26895	903	1327	95.44997		101.2		82.2
Prior MR15c	1046	1199	68.26895	1036	1213	95.44997	1156	1297	68.26895	1054	1328	95.44997		98.8		88.3
Last MR1c R2 Char							1250	1322	68.26895	1229	1396	95.44997				98.3
Boundary TS2 MR1c Char R2							1256	1345	68.26895	1235	1433	95.44997				95.6

2.36.4 – Dataset MR1c; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1c R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.1 Aoverall 99.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-82	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.036	1.626	68.26895	3.60E-17	1.797	95.44997		100			99.3
Sequence																	
Boundary Model MR1c							1054	1158	68.26895	1016	1210	95.44997					96.7
Phase																	
Prior MR1c	1033	1152	68.26895	997	1165	95.44997	1109	1190	68.26895	1065	1237	95.44997		99.4			99.5
Prior MR2c	1049	1214	68.26895	1040	1219	95.44997	1151	1222	68.26895	1066	1242	95.44997		104			99.8
Prior MR3c	1051	1216	68.26895	1040	1221	95.44997	1156	1222	68.26895	1064	1245	95.44997		107.5			99.8
Prior MR4c	1160	1226	68.26895	1049	1268	95.44997	1170	1221	68.26895	1074	1267	95.44997		113.2			99.8
Prior MR5c	1053	1219	68.26895	1041	1253	95.44997	1163	1220	68.26895	1063	1254	95.44997		112.7			99.8
Prior MR6c	1226	1268	68.26895	1179	1281	95.44997	1179	1246	68.26895	1167	1267	95.44997		53.6			99.1
Prior MR7c	1027	1151	68.26895	996	1160	95.44997	1107	1186	68.26895	1047	1238	95.44997		98.7			99.5
Prior MR8c	1176	1260	68.26895	1053	1273	95.44997	1173	1226	68.26895	1158	1266	95.44997		101.2			99.7
Prior MR9c	1037	1155	68.26895	1025	1199	95.44997	1117	1202	68.26895	1065	1237	95.44997		97.5			99.5
Prior MR10c	1022	1151	68.26895	995	1157	95.44997	1106	1184	68.26895	1042	1239	95.44997		94.4			99.4
Prior MR11c	1043	1159	68.26895	1030	1207	95.44997	1125	1208	68.26895	1065	1236	95.44997		95.1			99.5

Prior MR12c	1158	1224	68.26895	1048	1265	95.44997	1169	1220	68.26895	1069	1264	95.44997		114.1			99.8
Prior MR13c	1028	1151	68.26895	996	1160	95.44997	1107	1186	68.26895	1049	1238	95.44997		99.1			99.5
Prior MR14c	1158	1223	68.26895	1048	1265	95.44997	1168	1220	68.26895	1068	1264	95.44997		114.1			99.8
Prior MR15c	1053	1219	68.26895	1042	1254	95.44997	1163	1220	68.26895	1064	1254	95.44997		113			99.8
Last MR1c R3 Char							1199	1250	68.26895	1179	1276	95.44997					99.1
Boundary TS2 MR1c Char R3							1201	1260	68.26895	1180	1294	95.44997					97.8

2.37.1 – Dataset MRR1c; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRR1c");
    Phase()
    {
      Date(Prior("MRR1c", "MRR1c.prior"));
      Date(Prior("MRR2c", "MRR2c.prior"));
      Date(Prior("MRR3c", "MRR3c.prior"));
      Date(Prior("MRR4c", "MRR4c.prior"));
      Date(Prior("MRR5c", "MRR5c.prior"));
      Date(Prior("MRR6c", "MRR6c.prior"));
      Date(Prior("MRR7c", "MRR7c.prior"));
      Date(Prior("MRR8c", "MRR8c.prior"));
      Date(Prior("MRR9c", "MRR9c.prior"));
      Date(Prior("MRR10c", "MRR10c.prior"));
      Last("MRR1c R2 Tau");
    };
    Boundary("TS2 MRR1c Tau R2");
  };
};
```

2.37.2 – Dataset MRR1c; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1c R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.4 Aoverall 100.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1c							1060	1163	68.26895	953	1193	95.44997					97.3
Phase																	
Prior MRR1c	1036	1154	68.26895	1022	1198	95.44997	1048	1160	68.26895	1026	1202	95.44997		98.4			99.5
Prior MRR2c	1050	1216	68.26895	1040	1220	95.44997	1055	1219	68.26895	1046	1223	95.44997		103.7			99.6
Prior MRR3c	1222	1265	68.26895	1177	1278	95.44997	1182	1259	68.26895	1174	1270	95.44997		91.5			99.5
Prior MRR4c	1160	1251	68.26895	1049	1268	95.44997	1167	1223	68.26895	1053	1264	95.44997		108.4			99.6
Prior MRR5c	1048	1213	68.26895	1040	1218	95.44997	1056	1218	68.26895	1046	1221	95.44997		100.3			99.6
Prior MRR6c	891	977	68.26895	775	1013	95.44997	917	991	68.26895	776	1020	95.44997		103.2			99.6
Prior MRR7c	1038	1156	68.26895	1026	1200	95.44997	1048	1163	68.26895	1031	1208	95.44997		97			99.6
Prior MRR8c	888	977	68.26895	775	994	95.44997	916	991	68.26895	776	1018	95.44997		104			99.5
Prior MRR9c	1224	1266	68.26895	1179	1279	95.44997	1216	1259	68.26895	1174	1273	95.44997		90			99.5
Prior MRR10c	1052	1216	68.26895	1040	1222	95.44997	1153	1220	68.26895	1046	1226	95.44997		106.2			99.7
Last MRR1c R1 Tau							1222	1259	68.26895	1200	1276	95.44997					99.5
Boundary TS2 MRR1c Tau R1							1227	1276	68.26895	1195	1313	95.44997					97.9

2.37.3 – Dataset MRR1c; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1c R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 94.6 Aoverall 96.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1c							1093	1172	68.26895	1010	1197	95.44997					96.1
Phase																	
Prior MRR1c	1048	1212	68.26895	1040	1218	95.44997	1128	1218	68.26895	1048	1220	95.44997		99.9			99.3
Prior MRR2c	1051	1216	68.26895	1040	1221	95.44997	1153	1219	68.26895	1048	1223	95.44997		106.9			99.1
Prior MRR3c	776	977	68.26895	775	992	95.44997	890	991	68.26895	776	994	95.44997		105			99.2
Prior MRR4c	1166	1253	68.26895	1053	1269	95.44997	1173	1224	68.26895	1155	1262	95.44997		110.3			99.3
Prior MRR5c	1046	1199	68.26895	1036	1213	95.44997	1071	1215	68.26895	1048	1218	95.44997		94.2			99.1
Prior MRR6c	1031	1152	68.26895	997	1162	95.44997	1084	1157	68.26895	1023	1200	95.44997		99			99
Prior MRR7c	1044	1166	68.26895	1035	1211	95.44997	1072	1213	68.26895	1048	1216	95.44997		93.3			99.3
Prior MRR8c	1051	1216	68.26895	1040	1221	95.44997	1152	1219	68.26895	1048	1223	95.44997		106.4			99.2
Prior MRR9c	1162	1252	68.26895	1051	1268	95.44997	1172	1222	68.26895	1054	1262	95.44997		112.4			99.4
Prior MRR10c	1227	1270	68.26895	1180	1282	95.44997	1179	1247	68.26895	1167	1265	95.44997		69.5			98.7
Last MRR1c R2 Tau							1207	1250	68.26895	1184	1267	95.44997					99.1
Boundary TS2 MRR1c Tau R2							1213	1264	68.26895	1184	1290	95.44997					97

2.37.4 – Dataset MRR1c; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1c R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.6 Aoverall 98.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1c							1151	1208	68.26895	1088	1226	95.44997					96.3
Phase																	
Prior MRR1c	1046	1200	68.26895	1038	1213	95.44997	1131	1218	68.26895	1050	1221	95.44997		90.5			99.3
Prior MRR2c	1224	1266	68.26895	1178	1279	95.44997	1217	1253	68.26895	1178	1271	95.44997		96.4			99.3
Prior MRR3c	1159	1224	68.26895	1048	1266	95.44997	1172	1224	68.26895	1055	1264	95.44997		110.4			99.3
Prior MRR4c	1221	1265	68.26895	1175	1278	95.44997	1215	1255	68.26895	1177	1268	95.44997		98.9			99.2
Prior MRR5c	1049	1216	68.26895	1040	1220	95.44997	1158	1218	68.26895	1049	1226	95.44997		103.7			99.4
Prior MRR6c	980	1034	68.26895	896	1149	95.44997	992	1151	68.26895	907	1158	95.44997		76.6			98.8
Prior MRR7c	1225	1267	68.26895	1179	1280	95.44997	1218	1253	68.26895	1178	1271	95.44997		96.1			99.1
Prior MRR8c	1053	1221	68.26895	1045	1260	95.44997	1169	1221	68.26895	1053	1260	95.44997		112			99.3
Prior MRR9c	1178	1261	68.26895	1055	1273	95.44997	1182	1249	68.26895	1166	1262	95.44997		108.1			99
Prior MRR10c	1051	1216	68.26895	1040	1221	95.44997	1161	1218	68.26895	1049	1249	95.44997		107.3			99.4
Last MRR1c R3 Tau							1227	1260	68.26895	1216	1275	95.44997					99
Boundary TS2 MRR1c Tau R3							1231	1269	68.26895	1214	1298	95.44997					95.2

2.38.1 – Dataset MRR1c; Exponential Prior/100-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2),"t");
  Sequence()
  {
    Tau_Boundary("Model MRR1c");
    Phase()
    {
      Date(Prior("MRR1c","MRR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2c","MRR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3c","MRR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4c","MRR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5c","MRR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6c","MRR6c.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7c","MRR7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8c","MRR8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9c","MRR9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10c","MRR10c.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1c R1 TmodC");
};
Boundary("TS2 MRR1c Tau mod Char R1");
};
};

```

2.38.2 – Dataset MRR1c; Run 1; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1c R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.8 Aoverall 100.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Mode I Charcoal							-19	1	68.26895	-116	1	95.44997					100

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997										100
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	0.104	2	68.26895	2.69E-17	2	95.44997		100		98.1
Sequence																
Tau_Boundary Model MRR1c							1069	1190	68.26895	966	1246	95.44997				96.8
Phase																
Prior MRR1c	1036	1154	68.26895	1022	1198	95.44997	1048	1184	68.26895	1032	1250	95.44997		98.8		99.1
Prior MRR2c	1050	1216	68.26895	1040	1220	95.44997	1073	1243	68.26895	1053	1267	95.44997		103.6		99.3
Prior MRR3c	1222	1265	68.26895	1177	1278	95.44997	1219	1271	68.26895	1175	1292	95.44997		91.8		99.3
Prior MRR4c	1160	1251	68.26895	1049	1268	95.44997	1175	1246	68.26895	1056	1297	95.44997		108.2		99.4
Prior MRR5c	1048	1213	68.26895	1040	1218	95.44997	1072	1235	68.26895	1051	1264	95.44997		100.4		99
Prior MRR6c	891	977	68.26895	775	1013	95.44997	896	1002	68.26895	779	1251	95.44997		103.1		98.8
Prior MRR7c	1038	1156	68.26895	1026	1200	95.44997	1076	1204	68.26895	1035	1251	95.44997		97.5		99.1
Prior MRR8c	888	977	68.26895	775	994	95.44997	895	1001	68.26895	778	1252	95.44997		104.1		98.5
Prior MRR9c	1224	1266	68.26895	1179	1279	95.44997	1221	1270	68.26895	1178	1293	95.44997		91.1		99.3
Prior MRR10c	1052	1216	68.26895	1040	1222	95.44997	1155	1247	68.26895	1054	1271	95.44997		106		99.2
Last MRR1c R1 TmodC							1228	1274	68.26895	1201	1310	95.44997				99.2
Boundary TS2 MRR1c Tau mod Char R1							1234	1292	68.26895	1205	1338	95.44997				97.7

2.38.3 – Dataset MRR1c; Run 2; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1c R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.4 Aoverall 98.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-105	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	2.69E-17	1.918	68.26895	2.69E-17	1.924	95.44997		100			98.8
Sequence																	
Tau_Boundary Model MRR1c							1101	1197	68.26895	1026	1249	95.44997					97.4
Phase																	
Prior MRR1c	1048	1212	68.26895	1040	1218	95.44997	1135	1235	68.26895	1053	1258	95.44997		100			99.2
Prior MRR2c	1051	1216	68.26895	1040	1221	95.44997	1156	1239	68.26895	1055	1263	95.44997		106.6			99.2
Prior MRR3c	776	977	68.26895	775	992	95.44997	886	1005	68.26895	778	1259	95.44997		105			98.4
Prior MRR4c	1166	1253	68.26895	1053	1269	95.44997	1179	1240	68.26895	1158	1286	95.44997		109.5			99.3
Prior MRR5c	1046	1199	68.26895	1036	1213	95.44997	1122	1232	68.26895	1050	1255	95.44997		94.9			99.3
Prior MRR6c	1031	1152	68.26895	997	1162	95.44997	1047	1200	68.26895	1030	1249	95.44997		99.4			99
Prior MRR7c	1044	1166	68.26895	1035	1211	95.44997	1102	1229	68.26895	1048	1254	95.44997		94			99.1
Prior MRR8c	1051	1216	68.26895	1040	1221	95.44997	1155	1239	68.26895	1055	1262	95.44997		106			99.1
Prior MRR9c	1162	1252	68.26895	1051	1268	95.44997	1177	1239	68.26895	1069	1287	95.44997		111.4			99.3
Prior MRR10c	1227	1270	68.26895	1180	1282	95.44997	1185	1265	68.26895	1175	1284	95.44997		74.9			99.4

Last MRR1c R2 TmodC							1217	1266	68.26895	1188	1292	95.44997					99.3
Boundary TS2 MRR1c Tau mod Char R2							1221	1276	68.26895	1192	1312	95.44997					98.1

2.38.4 – Dataset MRR1c; Run 3; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1c R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.9 Aoverall 98.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-79	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2)	1.99E-17	2	68.26895	1.99E-17	2	95.44997	2.69E-17	1.458	68.26895	2.69E-17	1.818	95.44997		100			98.1
Sequence																	
Tau_Boundary Model MRR1c							1157	1229	68.26895	1106	1267	95.44997					97.3
Phase																	
Prior MRR1c	1046	1200	68.26895	1038	1213	95.44997	1135	1237	68.26895	1060	1267	95.44997		91			98.8
Prior MRR2c	1224	1266	68.26895	1178	1279	95.44997	1222	1263	68.26895	1182	1284	95.44997		96.4			99.3
Prior MRR3c	1159	1224	68.26895	1048	1266	95.44997	1182	1247	68.26895	1155	1287	95.44997		111.3			99.1
Prior MRR4c	1221	1265	68.26895	1175	1278	95.44997	1220	1264	68.26895	1181	1282	95.44997		98.2			99.2
Prior MRR5c	1049	1216	68.26895	1040	1220	95.44997	1158	1240	68.26895	1057	1274	95.44997		104.2			99

Prior MRR6c	980	1034	68.26895	896	1149	95.44997	993	1162	68.26895	980	1269	95.44997		75.2			98.4
Prior MRR7c	1225	1267	68.26895	1179	1280	95.44997	1222	1263	68.26895	1183	1285	95.44997		95.9			99.3
Prior MRR8c	1053	1221	68.26895	1045	1260	95.44997	1172	1239	68.26895	1065	1282	95.44997		112.8			99.3
Prior MRR9c	1178	1261	68.26895	1055	1273	95.44997	1205	1263	68.26895	1169	1278	95.44997		107.3			99.3
Prior MRR10c	1051	1216	68.26895	1040	1221	95.44997	1162	1238	68.26895	1056	1277	95.44997		107.8			99.1
Last MRR1c R3 TmodC							1233	1272	68.26895	1217	1297	95.44997					98.9
Boundary TS2 MRR1c Tau mod Char R3							1237	1280	68.26895	1218	1312	95.44997					97.4

2.39.1 – Dataset MRR1c; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRR1c");
    Phase()
    {
      Date(Prior("MRR1c","MRR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2c","MRR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3c","MRR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4c","MRR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5c","MRR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6c","MRR6c.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7c","MRR7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8c","MRR8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9c","MRR9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10c","MRR10c.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1c R1 Char");
};
Boundary("TS2 MRR1c Char R1");
};
};

```

2.39.2 – Dataset MRR1c; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1b R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.1 Aoverall 101.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-61	1	68.26895	-296	1	95.44997					99.4

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997										100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.069	2.34	68.26895	3.60E-17	2.349	95.44997		100		94.9
Sequence																
Boundary Model MRR1c							859	1259	68.26895	815	1287	95.44997				89.4
Phase																
Prior MRR1c	1036	1154	68.26895	1022	1198	95.44997	1045	1268	68.26895	1030	1304	95.44997		99.8		96.6
Prior MRR2c	1050	1216	68.26895	1040	1220	95.44997	1063	1276	68.26895	1048	1308	95.44997		101.3		97.4
Prior MRR3c	1222	1265	68.26895	1177	1278	95.44997	1222	1282	68.26895	1177	1331	95.44997		94.5		99.4
Prior MRR4c	1160	1251	68.26895	1049	1268	95.44997	1179	1269	68.26895	1053	1334	95.44998		103.8		98.8
Prior MRR5c	1048	1213	68.26895	1040	1218	95.44997	1059	1273	68.26895	1046	1307	95.44997		100.3		97.6
Prior MRR6c	891	977	68.26895	775	1013	95.44997	914	1284	68.26895	892	1310	95.44997		104.7		95.4
Prior MRR7c	1038	1156	68.26895	1026	1200	95.44997	1067	1265	68.26895	1033	1303	95.44997		99.4		96.7
Prior MRR8c	888	977	68.26895	775	994	95.44997	915	1285	68.26895	890	1310	95.44997		105.7		95.2
Prior MRR9c	1224	1266	68.26895	1179	1279	95.44997	1224	1281	68.26895	1180	1330	95.44997		94.4		99.3
Prior MRR10c	1052	1216	68.26895	1040	1222	95.44997	1070	1277	68.26895	1050	1308	95.44997		102.1		98.1
Last MRR1c R1 Char							1232	1293	68.26895	1212	1366	95.44997				99
Boundary TS2 MRR1c Char R1							1244	1328	68.26895	1219	1422	95.44997				97.8

2.39.3 – Dataset MRR1c; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1c R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 100.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-78	1	68.26895	-263	1	95.44997					96.3
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.584	2.199	68.26895	3.60E-17	2.379	95.44997		100			97.6
Sequence																	
Boundary Model MRR1c							945	1253	68.26895	893	1273	95.44997					90.7
Phase																	
Prior MRR1c	1048	1212	68.26895	1040	1218	95.44997	1167	1269	68.26895	1057	1296	95.44997		100.3			98.3
Prior MRR2c	1051	1216	68.26895	1040	1221	95.44997	1175	1268	68.26895	1057	1299	95.44997		104.3			98.5
Prior MRR3c	776	977	68.26895	775	992	95.44997	964	1281	68.26895	932	1300	95.44997		103.5			96
Prior MRR4c	1166	1253	68.26895	1053	1269	95.44997	1195	1266	68.26895	1159	1327	95.44997		106			99.4
Prior MRR5c	1046	1199	68.26895	1036	1213	95.44997	1159	1270	68.26895	1055	1295	95.44997		97.1			98
Prior MRR6c	1031	1152	68.26895	997	1162	95.44997	1140	1268	68.26895	1036	1294	95.44997		100.1			97.1

Prior MRR7c	1044	1166	68.26895	1035	1211	95.44997	1157	1270	68.26895	1054	1295	95.44997		96.5			97.9
Prior MRR8c	1051	1216	68.26895	1040	1221	95.44997	1173	1268	68.26895	1057	1299	95.44997		103.9			98.6
Prior MRR9c	1162	1252	68.26895	1051	1268	95.44997	1192	1265	68.26895	1067	1327	95.44997		107.6			99.3
Prior MRR10c	1227	1270	68.26895	1180	1282	95.44997	1224	1281	68.26895	1183	1316	95.44997		83.9			99.4
Last MRR1c R2 Char							1227	1289	68.26895	1198	1344	95.44997					99.1
Boundary TS2 MRR1c Char R2							1233	1310	68.26895	1199	1383	95.44997					96.6

2.39.4 – Dataset MRR1c; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1c R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 84.4 Aoverall 84.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-33	1	68.26895	-148	1	95.44997					99.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.795	2.034	68.26895	3.60E-17	2.052	95.44997		100			98.5
Sequence																	

Boundary Model MRR1c							1104	1244	68.26895	986	1274	95.44997				95.6
Phase																
Prior MRR1c	1046	1200	68.26895	1038	1213	95.44997	1154	1258	68.26895	1068	1292	95.44997		92.6		99.2
Prior MRR2c	1224	1266	68.26895	1178	1279	95.44997	1224	1272	68.26895	1181	1301	95.44997		94.4		99.7
Prior MRR3c	1159	1224	68.26895	1048	1266	95.44997	1183	1258	68.26895	1151	1312	95.44997		111.8		99.6
Prior MRR4c	1221	1265	68.26895	1175	1278	95.44997	1221	1273	68.26895	1178	1300	95.44997		95.3		99.7
Prior MRR5c	1049	1216	68.26895	1040	1220	95.44997	1163	1255	68.26895	1064	1297	95.44997		105.2		99.4
Prior MRR6c	980	1034	68.26895	896	1149	95.44997	1112	1263	68.26895	1003	1296	95.44997		47.3		98.8
Prior MRR7c	1225	1267	68.26895	1179	1280	95.44997	1224	1272	68.26895	1181	1301	95.44997		94.3		99.7
Prior MRR8c	1053	1221	68.26895	1045	1260	95.44997	1177	1256	68.26895	1067	1305	95.44997		113.4		99.5
Prior MRR9c	1178	1261	68.26895	1055	1273	95.44997	1203	1270	68.26895	1165	1296	95.44997		104.6		99.7
Prior MRR10c	1051	1216	68.26895	1040	1221	95.44997	1167	1255	68.26895	1064	1300	95.44997		108.7		99.3
Last MRR1c R3 Char							1237	1282	68.26895	1217	1329	95.44997				99.4
Boundary TS2 MRR1c Char R3							1241	1299	68.26895	1219	1362	95.44997				98

2.40.1 – Dataset MRRR1c; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRRR1c");
    Phase()
    {
      Date(Prior("MRRR1c", "MRRR1c.prior"));
      Date(Prior("MRRR2c", "MRRR2c.prior"));
      Date(Prior("MRRR3c", "MRRR3c.prior"));
      Date(Prior("MRRR4c", "MRRR4c.prior"));
      Date(Prior("MRRR5c", "MRRR5c.prior"));
      Last("MRRR1c R2 Tau");
    };
    Boundary("TS2 MRRR1c Tau R2");
  };
};
```

2.40.2 – Dataset MRRR1c; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1c R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 86.6 Aoverall 86.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1c							1128	1209	68.26895	973	1236	95.44997					97.2

Phase																	
Prior MRRR1c	1043	1159	68.26895	1030	1207	95.44997	1119	1212	68.26895	1048	1217	95.44997		82.6			99.4
Prior MRRR2c	1214	1267	68.26895	1168	1273	95.44997	1168	1230	68.26895	1162	1260	95.44997		78.4			99.3
Prior MRRR3c	1160	1225	68.26895	1048	1267	95.44997	1169	1216	68.26895	1054	1261	95.44997		116.5			99.6
Prior MRRR4c	1162	1251	68.26895	1050	1269	95.44997	1169	1218	68.26895	1055	1263	95.44997		115.1			99.7
Prior MRRR5c	1044	1161	68.26895	1031	1208	95.44997	1124	1213	68.26895	1050	1217	95.44997		83.2			99.5
Last MRRR1c R1 Tau							1181	1233	68.26895	1172	1263	95.44997					99.4
Boundary TS2 MRRR1c Tau R1							1186	1258	68.26895	1165	1319	95.44997					95.7

2.40.3 – Dataset MRRR1c; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1c R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 97.9 Aoverall 98.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C	
Sequence																		
Tau_Boundary Model MRRR1c							1150	1217	68.26895	1022	1243	95.44997					97.5	
Phase																		

Prior MRRR1c	1177	1260	68.26895	1054	1273	95.44997	1176	1226	68.26895	1162	1259	95.44997		106.6			99.5
Prior MRRR2c	1180	1263	68.26895	1162	1272	95.44997	1176	1230	68.26895	1164	1260	95.44997		97.4			99.5
Prior MRRR3c	1042	1157	68.26895	1027	1202	95.44997	1122	1215	68.26895	1047	1219	95.44997		76.1			99.1
Prior MRRR4c	1053	1219	68.26895	1041	1253	95.44997	1171	1218	68.26895	1052	1253	95.44997		117.6			99.5
Prior MRRR5c	1178	1261	68.26895	1158	1273	95.44997	1176	1227	68.26895	1163	1259	95.44997		103.3			99.3
Last MRRR1c R2 Tau							1190	1258	68.26895	1179	1266	95.44997					99.2
Boundary TS2 MRRR1c Tau R2							1190	1264	68.26895	1171	1311	95.44997					96.5

2.40.4 – Dataset MRRR1c; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1c R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.1 Aoverall 100.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1c							924	1197	68.26895	499	1271	95.44997					96.8
Phase																	
Prior MRRR1c	1263	1298	68.26895	1225	1380	95.44997	1231	1293	68.26895	1222	1301	95.44997		94.8			99.7

Prior MRRR2c	1054	1222	68.26895	1047	1263	95.44997	1160	1221	68.26895	1049	1264	95.44997		103.6			99.7
Prior MRRR3c	775	879	68.26895	687	949	95.44997	785	884	68.26895	704	972	95.44997		100			99.5
Prior MRRR4c	1055	1223	68.26895	1047	1264	95.44997	1161	1222	68.26895	1049	1265	95.44997		103.4			99.5
Prior MRRR5c	1035	1154	68.26895	1022	1198	95.44997	1039	1157	68.26895	1024	1200	95.44997		99.4			99.7
Last MRRR1c R3 Tau							1232	1294	68.26895	1223	1300	95.44997					99.7
Boundary TS2 MRRR1c Tau R3							1242	1357	68.26895	1225	1545	95.44997					97.5

2.41.1 – Dataset MRRR1c; Exponential Prior/100-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2),"t");
  Sequence()
  {
    Tau_Boundary("Model MRRR1c");
    Phase()
    {
      Date(Prior("MRRR1c","MRRR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2c","MRRR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3c","MRRR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4c","MRRR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5c","MRRR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1c R1 TmodC");
    };
  };
};
```

```
Boundary("TS2 MRRR1c Tau mod Char R1");
};
};
```

2.41.2 – Dataset MRRR1c; Run 1; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R1 TmodC	Unmod elled (BC/AD)						Modelled (BC/AD)						Indices Amodel 90.6 Aoverall 90.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-14	1	68.26895	-80	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2)	1.99E- 17	2	68.26895	1.99E- 17	2	95.44997	2.69E-17	1.318	68.26895	2.69E- 17	1.858	95.44997		100			99.6
Sequence																	
Tau_Boundary Model MRRR1c							1134	1225	68.26895	980	1276	95.44997					96.5
Phase																	
Prior MRRR1c	1043	1159	68.26895	1030	1207	95.44997	1123	1222	68.26895	1045	1250	95.44997		85.7			98.9
Prior MRRR2c	1214	1267	68.26895	1168	1273	95.44997	1180	1244	68.26895	1164	1282	95.44997		82.1			99
Prior MRRR3c	1160	1225	68.26895	1048	1267	95.44997	1172	1229	68.26895	1065	1290	95.44997		115			99.4
Prior MRRR4c	1162	1251	68.26895	1050	1269	95.44997	1173	1230	68.26895	1070	1293	95.44997		113.7			99.1
Prior MRRR5c	1044	1161	68.26895	1031	1208	95.44997	1125	1223	68.26895	1047	1250	95.44997		86			98.9

Last MRRR1c R1 TmodC							1197	1258	68.26895	1170	1292	95.44997					98.9
Boundary TS2 MRRR1c Tau mod Char R1							1194	1275	68.26895	1170	1348	95.44997					95.3

2.41.3 – Dataset MRRR1c; Run 2; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R2 TmodC	Unmod elled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.9 Aoverall 100.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-13	1	68.26895	-69	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2)	1.99E- 17	2	68.26895	1.99E- 17	2	95.44997	2.69E-17	1.198	68.26895	2.69E- 17	1.804	95.44997		100			99.5
Sequence																	
Tau_Boundary Model MRRR1c							1154	1232	68.26895	1029	1281	95.44997					96.8
Phase																	
Prior MRRR1c	1177	1260	68.26895	1054	1273	95.44997	1180	1241	68.26895	1164	1280	95.44997		105.9			99.1
Prior MRRR2c	1180	1263	68.26895	1162	1272	95.44997	1182	1247	68.26895	1166	1280	95.44997		98.4			99.3
Prior MRRR3c	1042	1157	68.26895	1027	1202	95.44997	1124	1224	68.26895	1048	1258	95.44997		80.5			99.1
Prior MRRR4c	1053	1219	68.26895	1041	1253	95.44997	1170	1229	68.26895	1056	1282	95.44997		116.1			99.3

Prior MRRR5c	1178	1261	68.26895	1158	1273	95.44997	1181	1242	68.26895	1164	1280	95.44997		103.3			99.3
Last MRRR1c R2 TmodC							1208	1266	68.26895	1178	1293	95.44997					98.9
Boundary TS2 MRRR1c Tau mod Char R2							1205	1281	68.26895	1178	1339	95.44997					95.3

2.41.4 – Dataset MRRR1c; Run 3; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R3 TmodC	Unmode lled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.6 Aoverall 100.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-112	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2)	1.99E- 17	2	68.26895	1.99E- 17	2	95.44997	0.024	1.966	68.26895	2.69E- 17	1.986	95.44997		100			99.3
Sequence																	
Tau_Boundary Model MRRR1c							944	1224	68.26895	519	1309	95.44997					96.9
Phase																	
Prior MRRR1c	1263	1298	68.26895	1225	1380	95.44997	1235	1307	68.26895	1223	1382	95.44997		95.9			99.5
Prior MRRR2c	1054	1222	68.26895	1047	1263	95.44997	1164	1255	68.26895	1052	1306	95.44997		103.7			99.3
Prior MRRR3c	775	879	68.26895	687	949	95.44997	784	902	68.26895	693	1024	95.44997		99.7			99
Prior MRRR4c	1055	1223	68.26895	1047	1264	95.44997	1166	1256	68.26895	1053	1313	95.44997		103.5			99.4

Prior MRRR5c	1035	1154	68.26895	1022	1198	95.44997	1044	1173	68.26895	1026	1253	95.44997		99.5			99.4
Last MRRR1c R3 TmodC							1237	1309	68.26895	1224	1382	95.44997					99.5
Boundary TS2 MRRR1c Tau mod Char R3							1257	1382	68.26895	1230	1566	95.44997					96.5

2.42.1 – Dataset MRRR1c; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRRR1c");
    Phase()
    {
      Date(Prior("MRRR1c","MRRR1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2c","MRRR2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3c","MRRR3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4c","MRRR4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5c","MRRR5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1c R1 Char");
    };
  };
};
```

```

Boundary("TS2 MRRR1c Char R1");
};
};

```

2.42.2 – Dataset MRRR1c; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R1 Char	Unmode lled (BC/AD)						Modelled (BC/AD)						Indices Amodel 87.8 Aoverall 87.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	1	68.26895	-104	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E- 17	3	68.26895	2.21E- 17	3	95.44997	3.60E-17	1.365	68.26895	3.60E- 17	2.01	95.44997		100			99.7
Sequence																	
Boundary Model MRRR1c							1090	1215	68.26895	963	1263	95.44997					96.8
Phase																	
Prior MRRR1c	1043	1159	68.26895	1030	1207	95.44997	1137	1223	68.26895	1057	1270	95.44997		82.1			99.6
Prior MRRR2c	1214	1267	68.26895	1168	1273	95.44997	1178	1246	68.26895	1162	1291	95.44997		80.7			99.7
Prior MRRR3c	1160	1225	68.26895	1048	1267	95.44997	1169	1228	68.26895	1070	1301	95.44997		114.9			99.8
Prior MRRR4c	1162	1251	68.26895	1050	1269	95.44997	1170	1229	68.26895	1073	1307	95.44997		113.5			99.8
Prior MRRR5c	1044	1161	68.26895	1031	1208	95.44997	1138	1224	68.26895	1058	1270	95.44997		83			99.6

Last MRRR1c R1 Char							1194	1259	68.26895	1169	1306	95.44997					99.7
Boundary TS2 MRRR1c Char R1							1192	1284	68.26895	1167	1400	95.44997					97.8

2.42.3 – Dataset MRRR1c; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93.1 Aoverall 94.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-95	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.302	68.26895	3.60E-17	1.977	95.44997		100			99.5
Sequence																	
Boundary Model MRRR1c							1121	1221	68.26895	991	1271	95.44997					97.6
Phase																	
Prior MRRR1c	1177	1260	68.26895	1054	1273	95.44997	1178	1241	68.26895	1161	1292	95.44997		105.1			99.8
Prior MRRR2c	1180	1263	68.26895	1162	1272	95.44997	1180	1245	68.26895	1163	1291	95.44997		96.7			99.8
Prior MRRR3c	1042	1157	68.26895	1027	1202	95.44997	1146	1227	68.26895	1070	1283	95.44997		71.1			99.7
Prior MRRR4c	1053	1219	68.26895	1041	1253	95.44997	1169	1228	68.26895	1067	1300	95.44997		118.4			99.8

Prior MRRR5c	1178	1261	68.26895	1158	1273	95.44997	1179	1242	68.26895	1162	1291	95.44997		102.1			99.8
Last MRRR1c R2 Char							1204	1267	68.26895	1175	1315	95.44997					99.7
Boundary TS2 MRRR1c Char R2							1197	1289	68.26895	1173	1401	95.44997					98.4

2.42.4 – Dataset MRRR1c; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1c R3 Char	Unmodell ed (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.5 Aoverall 99.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-97	1	68.26895	-450	1	95.44997					99.6
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.8
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.369	2.592	68.26895	3.60E-17	2.598	95.44997		100			96.9
Sequence																	
Boundary Model MRRR1c							674	1322	68.26895	344	1398	95.44997					92.3
Phase																	
Prior MRRR1c	1263	1298	68.26895	1225	1380	95.44997	1240	1341	68.26895	1225	1455	95.44997		98.3			99.4
Prior MRRR2c	1054	1222	68.26895	1047	1263	95.44997	1162	1315	68.26895	1051	1421	95.44997		101.6			99.1
Prior MRRR3c	775	879	68.26895	687	949	95.44997	783	1344	68.26895	714	1421	95.44997		97.8			97

Prior MRRR4c	1055	1223	68.26895	1047	1264	95.44997	1164	1311	68.26895	1052	1424	95.44997		101.4			99.1
Prior MRRR5c	1035	1154	68.26895	1022	1198	95.44997	1038	1303	68.26895	1026	1414	95.44997		100			98.4
Last MRRR1c R3 Char							1254	1380	68.26895	1224	1517	95.44997					99.3
Boundary TS2 MRRR1c Char R3							1274	1482	68.26895	1238	1853	95.44997					97.3

2.43.1 – Dataset MR1d; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MR1d");
    Phase()
    {
      Date(Prior("MR1d", "MR1d.prior"));
      Date(Prior("MR2d", "MR2d.prior"));
      Date(Prior("MR3d", "MR3d.prior"));
      Date(Prior("MR4d", "MR4d.prior"));
      Date(Prior("MR5d", "MR5d.prior"));
      Date(Prior("MR6d", "MR6d.prior"));
      Date(Prior("MR7d", "MR7d.prior"));
      Date(Prior("MR8d", "MR8d.prior"));
      Date(Prior("MR9d", "MR9d.prior"));
      Date(Prior("MR10d", "MR10d.prior"));
      Date(Prior("MR11d", "MR11d.prior"));
      Date(Prior("MR12d", "MR12d.prior"));
      Date(Prior("MR13d", "MR13d.prior"));
      Date(Prior("MR14d", "MR14d.prior"));
      Date(Prior("MR15d", "MR15d.prior"));
      Last("MR1d R3 Tau");
    };
    Boundary("TS2 MR1d Tau R3");
  };
};
```

2.43.2 – Dataset MR1d; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1d R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 76.2 Aoverall 76.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1d							992	1076	68.26895	930	1113	95.44997					98.1
Phase																	
Prior MR1d	1048	1212	68.26895	1040	1218	95.44997	1046	1179	68.26895	1039	1202	95.44997		103.3			99.1
Prior MR2d	1043	1157	68.26895	1028	1203	95.44997	1044	1157	68.26895	1029	1178	95.44997		102.5			99.3
Prior MR3d	1044	1165	68.26895	1034	1211	95.44997	1044	1165	68.26895	1033	1200	95.44997		104.5			99.1
Prior MR4d	897	1015	68.26895	891	1022	95.44997	906	1021	68.26895	894	1024	95.44997		100.5			99.3
Prior MR5d	775	888	68.26895	706	974	95.44997	781	951	68.26895	774	978	95.44997		91.7			99.4
Prior MR6d	1036	1155	68.26895	1024	1198	95.44997	1039	1154	68.26895	1025	1167	95.44997		101			99.3
Prior MR7d	1048	1212	68.26895	1040	1218	95.44997	1046	1179	68.26895	1038	1202	95.44997		103.3			98.9
Prior MR8d	775	940	68.26895	709	976	95.44997	827	973	68.26895	774	988	95.44997		91.3			99.4
Prior MR9d	1053	1218	68.26895	1040	1225	95.44997	1049	1198	68.26895	1041	1214	95.44997		93.5			98.7
Prior MR10d	1037	1155	68.26895	1025	1199	95.44997	1040	1154	68.26895	1026	1174	95.44997		101.3			99.3
Prior MR11d	980	1039	68.26895	899	1152	95.44997	992	1115	68.26895	904	1155	95.44997		95.2			99.5
Prior MR12d	899	1022	68.26895	892	1027	95.44997	959	1025	68.26895	894	1031	95.44997		104.6			99.4
Prior MR13d	894	992	68.26895	776	1021	95.44997	900	994	68.26895	888	1022	95.44997		100.1			99.5
Prior MR14d	998	1150	68.26895	994	1157	95.44997	1023	1151	68.26895	995	1158	95.44997		99.5			99.3
Prior MR15d	1182	1266	68.26895	1167	1273	95.44997	1053	1191	68.26895	1046	1240	95.44997		38.4			98

Last MR1d R1 Tua							1072	1220	68.26895	1063	1229	95.44997					98.5
Boundary TS2 MR1d Tau R1							1076	1231	68.26895	1066	1248	95.44997					95

2.43.3 – Dataset MR1d; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1d R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.3 Aoverall 102.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1d							1064	1150	68.26895	989	1178	95.44997					95.5
Phase																	
Prior MR1d	1159	1224	68.26895	1048	1266	95.44997	1167	1222	68.26895	1051	1263	95.44997		108.3			99.2
Prior MR2d	652	772	68.26895	644	774	95.44997	656	773	68.26895	646	774	95.44997		96.1			98.8
Prior MR3d	1162	1252	68.26895	1051	1268	95.44997	1168	1226	68.26895	1053	1265	95.44997		107.6			99.1
Prior MR4d	1054	1222	68.26895	1047	1263	95.44997	1166	1220	68.26895	1050	1261	95.44997		108.7			99.3
Prior MR5d	1038	1156	68.26895	1025	1200	95.44997	1047	1162	68.26895	1030	1208	95.44997		97.1			98.6
Prior MR6d	1159	1225	68.26895	1048	1267	95.44997	1167	1222	68.26895	1052	1263	95.44997		108.2			99
Prior MR7d	775	886	68.26895	706	973	95.44997	781	946	68.26895	773	977	95.44997		95.1			98.4
Prior MR8d	889	977	68.26895	775	994	95.44997	916	991	68.26895	776	1018	95.44997		103.8			98.6
Prior MR9d	1158	1224	68.26895	1048	1265	95.44997	1167	1222	68.26895	1051	1263	95.44997		108.3			99.2
Prior MR10d	1159	1224	68.26895	1048	1266	95.44997	1167	1222	68.26895	1051	1263	95.44997		108.2			99.2
Prior MR11d	1054	1221	68.26895	1046	1261	95.44997	1164	1220	68.26895	1050	1259	95.44997		108.7			99.3

Prior MR12d	1160	1225	68.26895	1048	1267	95.44997	1167	1223	68.26895	1052	1264	95.44997		108.1			99.2
Prior MR13d	1233	1294	68.26895	1223	1377	95.44997	1221	1269	68.26895	1218	1282	95.44997		56.8			98.8
Prior MR14d	1164	1252	68.26895	1052	1268	95.44997	1170	1228	68.26895	1054	1266	95.44997		107.3			99.3
Prior MR15d	1052	1216	68.26895	1040	1222	95.44997	1075	1220	68.26895	1046	1226	95.44997		105.4			99.3
Last MR1d R2 Tau							1223	1258	68.26895	1220	1280	95.44997					99.1
Boundary TS2 MR1d Tau R2							1230	1271	68.26895	1222	1300	95.44997					97.4

2.43.4 – Dataset MR1d; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1d R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.6 Aoverall 99.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1d							898	1053	68.26895	760	1097	95.44997					96.9
Phase																	
Prior MR1d	1042	1157	68.26895	1028	1202	95.44997	1049	1161	68.26895	1031	1208	95.44997		98.4			99.6
Prior MR2d	775	886	68.26895	705	973	95.44997	775	889	68.26895	707	975	95.44997		98.5			99.4
Prior MR3d	776	976	68.26895	775	992	95.44997	777	988	68.26895	775	992	95.44997		102.2			99.4
Prior MR4d	1226	1268	68.26895	1179	1281	95.44997	1181	1257	68.26895	1168	1273	95.44997		82.8			99.4

Prior MR5d	1046	1202	68.26895	1039	1213	95.44997	1050	1209	68.26895	1044	1216	95.44997		98.6			99.6
Prior MR6d	895	993	68.26895	886	1022	95.44997	896	994	68.26895	888	1022	95.44997		100.2			99.3
Prior MR7d	421	535	68.26895	409	550	95.44997	426	539	68.26895	412	553	95.44997		100			99.5
Prior MR8d	1039	1156	68.26895	1026	1200	95.44997	1045	1160	68.26895	1028	1203	95.44997		98.8			99.4
Prior MR9d	1053	1221	68.26895	1045	1260	95.44997	1159	1219	68.26895	1047	1254	95.44997		106.5			99.6
Prior MR10d	1166	1254	68.26895	1053	1269	95.44997	1167	1225	68.26895	1053	1265	95.44997		105.5			99.6
Prior MR11d	1039	1156	68.26895	1026	1200	95.44997	1044	1160	68.26895	1028	1203	95.44997		98.8			99.4
Prior MR12d	1048	1213	68.26895	1040	1218	95.44997	1052	1215	68.26895	1044	1219	95.44997		100.4			99.6
Prior MR13d	121	210	68.26895	65	235	95.44997	125	210	68.26895	73	236	95.44997		101.5			99.3
Prior MR14d	1160	1226	68.26895	1049	1268	95.44997	1166	1221	68.26895	1050	1263	95.44997		107.1			99.6
Prior MR15d	1032	1152	68.26895	997	1163	95.44997	1036	1155	68.26895	997	1167	95.44997		100.2			99.6
Last MR1d R3 Tau							1217	1258	68.26895	1190	1272	95.44997					99.5
Boundary TS2 MR1d Tau R3							1222	1277	68.26895	1190	1314	95.44997					97.8

2.44.1 – Dataset MR1d; Exponential Prior/200-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.3),"t");
  Sequence()
  {
    Tau_Boundary("Model MR1d");
    Phase()
    {
      Date(Prior("MR1d","MR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2d","MR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3d","MR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4d","MR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5d","MR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6d","MR6d.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7d","MR7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8d","MR8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9d","MR9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10d","MR10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11d","MR11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12d","MR12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13d","MR13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14d","MR14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15d","MR15d.prior"))
{

```

```

Outlier("Charcoal", 1);
};
Last("MR1d R1 TmodC");
};
Boundary("TS2 MR1d Tau mod Char R1");
};
};

```

2.44.2 – Dataset MR1d; Run 1; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 80.3 Aoverall 80.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-32	0	68.26895	-183	0	95.44997					99.6
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	0.0575	2.116	68.26895	-3.30E-17	2.1206	95.44997		100			95.3
Sequence																	
Tau_Boundary Model MR1d							1002	1121	68.26895	948	1202	95.44997					96.9
Phase																	
Prior MR1d	1048	1212	68.26895	1040	1218	95.44997	1056	1206	68.26895	1044	1234	95.44997		102.3			98.1
Prior MR2d	1043	1157	68.26895	1028	1203	95.44997	1063	1175	68.26895	1036	1227	95.44997		102.8			98.3
Prior MR3d	1044	1165	68.26895	1034	1211	95.44997	1058	1184	68.26895	1040	1230	95.44997		104.1			98.4

Prior MR4d	897	1015	68.26895	891	1022	95.44997	905	1043	68.26895	895	1204	95.44997		100.6			98.5
Prior MR5d	775	888	68.26895	706	974	95.44997	786	986	68.26895	776	1212	95.44997		91.7			98.7
Prior MR6d	1036	1155	68.26895	1024	1198	95.44997	1064	1174	68.26895	1032	1227	95.44997		101.6			98.4
Prior MR7d	1048	1212	68.26895	1040	1218	95.44997	1056	1207	68.26895	1045	1235	95.44997		102.3			98
Prior MR8d	775	940	68.26895	709	976	95.44997	784	998	68.26895	777	1207	95.44997		91.2			98.5
Prior MR9d	1053	1218	68.26895	1040	1225	95.44997	1055	1220	68.26895	1049	1240	95.44997		93.1			98
Prior MR10d	1037	1155	68.26895	1025	1199	95.44997	1064	1173	68.26895	1033	1226	95.44997		101.9			98.5
Prior MR11d	980	1039	68.26895	899	1152	95.44997	995	1153	68.26895	979	1229	95.44997		95.4			98.8
Prior MR12d	899	1022	68.26895	892	1027	95.44997	906	1067	68.26895	899	1205	95.44997		104.6			98.7
Prior MR13d	894	992	68.26895	776	1021	95.44997	901	1031	68.26895	890	1206	95.44997		100.2			98.7
Prior MR14d	998	1150	68.26895	994	1157	95.44997	1029	1169	68.26895	999	1223	95.44997		99.9			98.6
Prior MR15d	1182	1266	68.26895	1167	1273	95.44997	1058	1226	68.26895	1051	1270	95.44997		45.3			97.9
Last MR1d R1 TmodC							1099	1251	68.26895	1072	1269	95.44997					97.6
Boundary TS2 MR1d Tau mod Char R1							1094	1262	68.26895	1074	1281	95.44997					96.8

2.44.3 – Dataset MR1d; Run 2; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 103.1 Aoverall 105.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	0	68.26895	-107	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	1.2834	68.26895	-3.30E-17	2.1482	95.44997		100			95.8
Sequence																	
Tau_Boundary Model MR1d							1067	1171	68.26895	1014	1263	95.44997					97.9
Phase																	
Prior MR1d	1159	1224	68.26895	1048	1266	95.44997	1171	1242	68.26895	1055	1295	95.44997		108.3			99.3
Prior MR2d	652	772	68.26895	644	774	95.44997	655	783	68.26895	642	1292	95.44997		95.9			98.8
Prior MR3d	1162	1252	68.26895	1051	1268	95.44997	1180	1250	68.26895	1059	1297	95.44997		107.6			99.3
Prior MR4d	1054	1222	68.26895	1047	1263	95.44997	1167	1240	68.26895	1054	1290	95.44997		108.6			99.3
Prior MR5d	1038	1156	68.26895	1025	1200	95.44997	1064	1201	68.26895	1035	1261	95.44997		97.6			99
Prior MR6d	1159	1225	68.26895	1048	1267	95.44997	1173	1246	68.26895	1055	1296	95.44997		108.2			99.4
Prior MR7d	775	886	68.26895	706	973	95.44997	785	958	68.26895	709	1286	95.44997		94.9			98.7
Prior MR8d	889	977	68.26895	775	994	95.44997	896	998	68.26895	777	1283	95.44997		103.9			98.8
Prior MR9d	1158	1224	68.26895	1048	1265	95.44997	1170	1242	68.26895	1054	1295	95.44997		108.4			99.3
Prior MR10d	1159	1224	68.26895	1048	1266	95.44997	1172	1244	68.26895	1055	1295	95.44997		108.2			99.4

Prior MR11d	1054	1221	68.26895	1046	1261	95.44997	1165	1240	68.26895	1054	1288	95.44997		108.6			99.3
Prior MR12d	1160	1225	68.26895	1048	1267	95.44997	1174	1246	68.26895	1055	1297	95.44997		108.1			99.4
Prior MR13d	1233	1294	68.26895	1223	1377	95.44997	1225	1278	68.26895	1220	1302	95.44997		62.6			99.5
Prior MR14d	1164	1252	68.26895	1052	1268	95.44997	1182	1252	68.26895	1071	1298	95.44997		107.2			99.4
Prior MR15d	1052	1216	68.26895	1040	1222	95.44997	1155	1252	68.26895	1053	1273	95.44997		105.4			99.2
Last MR1d R2 TmodC							1231	1276	68.26895	1222	1307	95.44997					99.4
Boundary TS2 MR1d Tau mod Char R2							1237	1288	68.26895	1226	1322	95.44997					99.2

2.44.4 – Dataset MR1d; Run 3; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.8 Aoverall 100.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-13	0	68.26895	-74	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	1.3294	68.26895	-3.30E-17	1.7779	95.44997		100			98.9
Sequence																	
Tau_Boundary Model MR1d							910	1069	68.26895	775	1117	95.44997					96.6
Phase																	

Prior MR1d	1042	1157	68.26895	1028	1202	95.44997	1065	1171	68.26895	1034	1222	95.44997		98.8			99.1
Prior MR2d	775	886	68.26895	705	973	95.44997	784	899	68.26895	710	998	95.44997		98.5			98.6
Prior MR3d	776	976	68.26895	775	992	95.44997	884	993	68.26895	777	1027	95.44997		102.3			98.7
Prior MR4d	1226	1268	68.26895	1179	1281	95.44997	1220	1270	68.26895	1176	1288	95.44997		86			98.9
Prior MR5d	1046	1202	68.26895	1039	1213	95.44997	1059	1218	68.26895	1042	1236	95.44997		98.8			99
Prior MR6d	895	993	68.26895	886	1022	95.44997	904	1019	68.26895	883	1084	95.44997		100.3			98.6
Prior MR7d	421	535	68.26895	409	550	95.44997	437	547	68.26895	409	604	95.44997		100			98.7
Prior MR8d	1039	1156	68.26895	1026	1200	95.44997	1063	1170	68.26895	1034	1219	95.44997		99.1			99
Prior MR9d	1053	1221	68.26895	1045	1260	95.44997	1160	1235	68.26895	1053	1267	95.44997		105.8			99.3
Prior MR10d	1166	1254	68.26895	1053	1269	95.44997	1176	1242	68.26895	1056	1287	95.44997		105			99.1
Prior MR11d	1039	1156	68.26895	1026	1200	95.44997	1064	1170	68.26895	1033	1220	95.44997		99.2			99.1
Prior MR12d	1048	1213	68.26895	1040	1218	95.44997	1058	1223	68.26895	1045	1244	95.44997		100.5			98.9
Prior MR13d	121	210	68.26895	65	235	95.44997	128	225	68.26895	64	307	95.44997		101.5			98.3
Prior MR14d	1160	1226	68.26895	1049	1268	95.44997	1169	1235	68.26895	1053	1283	95.44997		106.5			99.2
Prior MR15d	1032	1152	68.26895	997	1163	95.44997	1040	1165	68.26895	1024	1216	95.44997		100.3			99
Last MR1d R3 TmodC							1222	1268	68.26895	1193	1295	95.44997					99.2
Boundary TS2 MR1d Tau mod Char R3							1229	1290	68.26895	1202	1336	95.44997					98.1

2.45.1 – Dataset MR1d; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MR1d");
    Phase()
    {
      Date(Prior("MR1d","MR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2d","MR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3d","MR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4d","MR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5d","MR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6d","MR6d.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7d","MR7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8d","MR8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9d","MR9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10d","MR10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11d","MR11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12d","MR12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13d","MR13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14d","MR14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15d","MR15d.prior"))
{

```



```

Outlier("Charcoal", 1);
};
Last("MR1d R1 Char");
};
Boundary("TS2 MR1d Char R1");
};
};

```

2.45.2 – Dataset MR1d; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 84.5 Aoverall 83.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-40	1	68.26895	-214	1	95.44997					99.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.519	2.214	68.26895	3.60E-17	2.217	95.44997		100			94.6
Sequence																	
Boundary Model MR1d							814	1053	68.26895	773	1189	95.44997					93.6
Phase																	
Prior MR1d	1048	1212	68.26895	1040	1218	95.44997	1060	1213	68.26895	1042	1244	95.44997		100.9			99.2
Prior MR2d	1043	1157	68.26895	1028	1203	95.44997	1065	1178	68.26895	1034	1233	95.44997		102.1			98.8
Prior MR3d	1044	1165	68.26895	1034	1211	95.44997	1063	1183	68.26895	1038	1237	95.44997		102.8			99
Prior MR4d	897	1015	68.26895	891	1022	95.44997	902	1049	68.26895	896	1210	95.44997		101.3			97.5

Prior MR5d	775	888	68.26895	706	974	95.44997	845	1123	68.26895	830	1222	95.44997		77.6			97.1
Prior MR6d	1036	1155	68.26895	1024	1198	95.44997	1049	1176	68.26895	1030	1233	95.44997		101.3			98.7
Prior MR7d	1048	1212	68.26895	1040	1218	95.44997	1060	1213	68.26895	1043	1244	95.44997		100.9			99.2
Prior MR8d	775	940	68.26895	709	976	95.44997	850	1121	68.26895	835	1222	95.44997		81.7			97
Prior MR9d	1053	1218	68.26895	1040	1225	95.44997	1057	1228	68.26895	1049	1254	95.44997		95.1			99.3
Prior MR10d	1037	1155	68.26895	1025	1199	95.44997	1064	1176	68.26895	1031	1232	95.44997		101.5			98.9
Prior MR11d	980	1039	68.26895	899	1152	95.44997	993	1149	68.26895	907	1236	95.44997		100.6			98.3
Prior MR12d	899	1022	68.26895	892	1027	95.44997	904	1066	68.26895	899	1211	95.44997		103.4			98
Prior MR13d	894	992	68.26895	776	1021	95.44997	898	1044	68.26895	892	1212	95.44997		102			97.8
Prior MR14d	998	1150	68.26895	994	1157	95.44997	1026	1169	68.26895	998	1223	95.44997		100.5			98.5
Prior MR15d	1182	1266	68.26895	1167	1273	95.44997	1169	1246	68.26895	1054	1292	95.44997		66.3			99.5
Last MR1d R1 Char							1178	1252	68.26895	1119	1301	95.44997					99.5
Boundary TS2 MR1d Char R1							1189	1277	68.26895	1112	1339	95.44997					98.6

2.45.3 – Dataset MR1d; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.3 Aoverall 109.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-129	-1	68.26895	-518	1	95.44997					97
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.8
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.989	2.283	68.26895	1.842	2.46	95.44997		100			94.9

Sequence																	
Boundary Model MR1d							1189	1265	68.26895	1108	1307	95.44997					90
Phase																	
Prior MR1d	1159	1224	68.26895	1048	1266	95.44997	1226	1288	68.26895	1189	1332	95.44997		109			98
Prior MR2d	652	772	68.26895	644	774	95.44997	1222	1291	68.26895	1147	1355	95.44997		95.3			97.1
Prior MR3d	1162	1252	68.26895	1051	1268	95.44997	1227	1288	68.26895	1193	1331	95.44997		107.8			98.2
Prior MR4d	1054	1222	68.26895	1047	1263	95.44997	1225	1288	68.26895	1187	1332	95.44997		109.2			97.7
Prior MR5d	1038	1156	68.26895	1025	1200	95.44997	1222	1290	68.26895	1160	1340	95.44997		97.4			97.6
Prior MR6d	1159	1225	68.26895	1048	1267	95.44997	1226	1288	68.26895	1190	1331	95.44997		108.7			98
Prior MR7d	775	886	68.26895	706	973	95.44997	1222	1291	68.26895	1148	1355	95.44997		94.5			97.3
Prior MR8d	889	977	68.26895	775	994	95.44997	1222	1291	68.26895	1144	1354	95.44997		103.8			97.4
Prior MR9d	1158	1224	68.26895	1048	1265	95.44997	1226	1288	68.26895	1189	1332	95.44997		108.9			98.1
Prior MR10d	1159	1224	68.26895	1048	1266	95.44997	1226	1288	68.26895	1190	1332	95.44997		108.7			98.2
Prior MR11d	1054	1221	68.26895	1046	1261	95.44997	1225	1288	68.26895	1186	1334	95.44997		109			98.1
Prior MR12d	1160	1225	68.26895	1048	1267	95.44997	1227	1288	68.26895	1190	1332	95.44997		108.6			98.2
Prior MR13d	1233	1294	68.26895	1223	1377	95.44997	1241	1296	68.26895	1228	1337	95.44997		71.7			97.9
Prior MR14d	1164	1252	68.26895	1052	1268	95.44997	1228	1288	68.26895	1194	1331	95.44997		107.5			98
Prior MR15d	1052	1216	68.26895	1040	1222	95.44997	1224	1288	68.26895	1178	1336	95.44997		105.9			97.7
Last MR1d R2 Char							1249	1313	68.26895	1232	1367	95.44997					97.5
Boundary TS2 MR1d Char R2							1250	1319	68.26895	1232	1381	95.44997					94.7

2.45.4 – Dataset MR1d; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1d R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.7 Aoverall 100.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-249	1	68.26895	-1160	1	95.44997					49.5
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.5
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	2.247	2.595	68.26895	0.939	2.829	95.44997		100			62.3
Sequence																	
Boundary Model MR1d							1094	1275	68.26895	56	1367	95.44997					65.5
Phase																	
Prior MR1d	1042	1157	68.26895	1028	1202	95.44997	1180	1315	68.26895	1073	1399	95.44997		99.9			92.4
Prior MR2d	775	886	68.26895	705	973	95.44997	1168	1327	68.26895	786	1420	95.44997		98.4			89.2
Prior MR3d	776	976	68.26895	775	992	95.44997	1170	1327	68.26895	888	1411	95.44997		102.2			89.1
Prior MR4d	1226	1268	68.26895	1179	1281	95.44997	1238	1318	68.26895	1196	1411	95.44997		92.6			92.3
Prior MR5d	1046	1202	68.26895	1039	1213	95.44997	1187	1314	68.26895	1076	1397	95.44997		99.8			93.6
Prior MR6d	895	993	68.26895	886	1022	95.44997	1169	1327	68.26895	918	1405	95.44997		100.3			88.4
Prior MR7d	421	535	68.26895	409	550	95.44997	1169	1328	68.26895	421	1452	95.44997		99.9			87.8
Prior MR8d	1039	1156	68.26895	1026	1200	95.44997	1180	1314	68.26895	1074	1396	95.44997		100			92.2
Prior MR9d	1053	1221	68.26895	1045	1260	95.44997	1201	1310	68.26895	1117	1415	95.44997		102.3			93.6
Prior MR10d	1166	1254	68.26895	1053	1269	95.44997	1214	1312	68.26895	1167	1417	95.44997		102.1			94.7

Prior MR11d	1039	1156	68.26895	1026	1200	95.44997	1179	1312	68.26895	1074	1397	95.44997		100.2			92.5
Prior MR12d	1048	1213	68.26895	1040	1218	95.44997	1189	1316	68.26895	1086	1404	95.44997		100.4			94.3
Prior MR13d	121	210	68.26895	65	235	95.44997	1169	1327	68.26895	123	1468	95.44997		101.7			87.8
Prior MR14d	1160	1226	68.26895	1049	1268	95.44997	1209	1310	68.26895	1153	1427	95.44997		103.2			94
Prior MR15d	1032	1152	68.26895	997	1163	95.44997	1177	1316	68.26895	1071	1404	95.44997		100.6			92.4
Last MR1d R3 Char							1247	1358	68.26895	1215	1487	95.44997					81.5
Boundary TS2 MR1d Char R3							1249	1380	68.26895	1219	1543	95.44997					82.8

2.46.1 – Dataset MRR1d; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRR1d");
    Phase()
    {
      Date(Prior("MRR1d", "MRR1d.prior"));
      Date(Prior("MRR2d", "MRR2d.prior"));
      Date(Prior("MRR3d", "MRR3d.prior"));
      Date(Prior("MRR4d", "MRR4d.prior"));
      Date(Prior("MRR5d", "MRR5d.prior"));
      Date(Prior("MRR6d", "MRR6d.prior"));
      Date(Prior("MRR7d", "MRR7d.prior"));
      Date(Prior("MRR8d", "MRR8d.prior"));
      Date(Prior("MRR9d", "MRR9d.prior"));
      Date(Prior("MRR10d", "MRR10d.prior"));
      Last("MRR1d R1 Tua");
    };
    Boundary("TS2 MRR1d Tau R1");
  };
};
```

2.46.2 – Dataset MRR1d; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1d R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92 Aoverall 90.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1d							1041	1121	68.26895	996	1154	95.44997					97.7
Phase																	
Prior MRR1d	886	977	68.26895	775	993	95.44997	925	992	68.26895	777	1021	95.44997		103.4			99.5
Prior MRR2d	995	1147	68.26895	992	1157	95.44997	1022	1152	68.26895	994	1157	95.44997		92.2			99.2
Prior MRR3d	1054	1222	68.26895	1047	1263	95.44997	1051	1193	68.26895	1046	1214	95.44997		78.6			99.3
Prior MRR4d	1047	1208	68.26895	1040	1216	95.44997	1049	1176	68.26895	1041	1200	95.44997		103.3			99.4
Prior MRR5d	1028	1151	68.26895	996	1160	95.44997	1040	1155	68.26895	1024	1160	95.44997		101			99.3
Prior MRR6d	1033	1152	68.26895	997	1165	95.44997	1045	1156	68.26895	1027	1163	95.44997		101.6			99.5
Prior MRR7d	1049	1214	68.26895	1040	1219	95.44997	1049	1179	68.26895	1043	1202	95.44997		100.8			99.5
Prior MRR8d	1043	1157	68.26895	1028	1203	95.44997	1059	1159	68.26895	1032	1177	95.44997		103.4			99.5
Prior MRR9d	1044	1161	68.26895	1031	1209	95.44997	1050	1162	68.26895	1033	1198	95.44997		104.1			99.4
Prior MRR10d	1053	1220	68.26895	1044	1259	95.44997	1050	1196	68.26895	1045	1212	95.44997		84.2			99.2
Last MRR1d R1 Tau							1076	1215	68.26895	1070	1218	95.44997					99
Boundary TS2 MRR1d Tau R1							1079	1223	68.26895	1067	1234	95.44997					95

2.46.3 – Dataset MRR1d; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1d R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.8 Aoverall 97.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1d							1035	1150	68.26895	912	1184	95.44997					98.1
Phase																	
Prior MRR1d	775	953	68.26895	774	977	95.44997	833	976	68.26895	775	991	95.44997		97.9			99.4
Prior MRR2d	1053	1218	68.26895	1040	1225	95.44997	1156	1220	68.26895	1046	1250	95.44997		107.2			99.6
Prior MRR3d	1053	1221	68.26895	1045	1260	95.44997	1162	1219	68.26895	1049	1256	95.44997		108.6			99.7
Prior MRR4d	1044	1162	68.26895	1032	1210	95.44997	1051	1201	68.26895	1038	1214	95.44997		95.5			99.7
Prior MRR5d	1217	1267	68.26895	1168	1275	95.44997	1180	1256	68.26895	1167	1266	95.44997		93			99.4
Prior MRR6d	1037	1155	68.26895	1024	1198	95.44997	1046	1160	68.26895	1027	1203	95.44997		98.2			99.6
Prior MRR7d	706	877	68.26895	679	887	95.44997	787	881	68.26895	684	941	95.44997		100.3			99.5
Prior MRR8d	1220	1266	68.26895	1175	1277	95.44997	1181	1258	68.26895	1168	1267	95.44997		91.2			99.4
Prior MRR9d	1168	1255	68.26895	1053	1270	95.44997	1171	1229	68.26895	1055	1267	95.44997		106			99.5
Prior MRR10d	1040	1156	68.26895	1027	1201	95.44997	1050	1163	68.26895	1031	1209	95.44997		97			99.6
Last MRR1d R2 Tau							1220	1260	68.26895	1197	1273	95.44997					99.6
Boundary TS2 MRR1d Tau R2							1225	1278	68.26895	1194	1316	95.44997					97.3

2.46.4 – Dataset MRR1d; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1d R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 98.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1d							928	1106	68.26895	750	1152	95.44997					96.8
Phase																	
Prior MRR1d	1053	1219	68.26895	1040	1252	95.44997	1055	1221	68.26895	1045	1252	95.44997		105.1			99.6
Prior MRR2d	775	885	68.26895	705	973	95.44997	775	889	68.26895	707	975	95.44997		98.2			99.5
Prior MRR3d	1042	1157	68.26895	1027	1202	95.44997	1048	1161	68.26895	1030	1208	95.44997		98.1			99.5
Prior MRR4d	576	640	68.26895	553	648	95.44997	581	642	68.26895	556	650	95.44997		101.2			99.5
Prior MRR5d	1219	1266	68.26895	1168	1277	95.44997	1183	1262	68.26895	1169	1270	95.44997		95			99.4
Prior MRR6d	894	992	68.26895	776	1021	95.44997	897	993	68.26895	885	1021	95.44997		100.5			99.3
Prior MRR7d	1221	1265	68.26895	1175	1278	95.44997	1215	1263	68.26895	1168	1272	95.44997		94.1			99.4
Prior MRR8d	1046	1202	68.26895	1039	1213	95.44997	1051	1211	68.26895	1044	1217	95.44997		98.1			99.6
Prior MRR9d	1054	1222	68.26895	1046	1262	95.44997	1161	1220	68.26895	1048	1260	95.44997		106			99.7
Prior MRR10d	896	1014	68.26895	891	1022	95.44997	900	1019	68.26895	893	1022	95.44997		100.4			99.1
Last MRR1d R3 Tau							1223	1262	68.26895	1200	1276	95.44997					99.6
Boundary TS2 MRR1d Tau R3							1229	1289	68.26895	1194	1351	95.44997					97.3

2.47.1 – Dataset MRR1d; Exponential Prior/200-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.3),"t");
  Sequence()
  {
    Tau_Boundary("Model MRR1d");
    Phase()
    {
      Date(Prior("MRR1d", "MRR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2d", "MRR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3d", "MRR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4d", "MRR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5d", "MRR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6d", "MRR6d.prior"))
      {
```

```

Outlier("Charcoal", 1);
};
Date(Prior("MRR7d","MRR7d.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR8d","MRR8d.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR9d","MRR9d.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR10d","MRR10d.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MRR1d R1 TmodC");
};
Boundary("TS2 MRR1d Tau mod Char R1");
};
};

```

2.47.2 – Dataset MRR1d; Run 1; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93.8 Aoverall 92.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	0	68.26895	-108	0	95.44997					100

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997										100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	0.0345	1.7526	68.26895	-3.30E-17	1.9573	95.44997		100		99.3
Sequence																
Tau_Boundary Model MRR1d							1049	1147	68.26895	1006	1208	95.44997				97.8
Phase																
Prior MRR1d	886	977	68.26895	775	993	95.44997	897	1019	68.26895	876	1223	95.44997		103.8		99.2
Prior MRR2d	995	1147	68.26895	992	1157	95.44997	1026	1164	68.26895	999	1204	95.44997		92.5		99.4
Prior MRR3d	1054	1222	68.26895	1047	1263	95.44997	1056	1216	68.26895	1052	1228	95.44997		81.4		99.2
Prior MRR4d	1047	1208	68.26895	1040	1216	95.44997	1060	1191	68.26895	1047	1222	95.44997		102.6		99.4
Prior MRR5d	1028	1151	68.26895	996	1160	95.44997	1046	1171	68.26895	1027	1213	95.44997		101.7		99.4
Prior MRR6d	1033	1152	68.26895	997	1165	95.44997	1077	1172	68.26895	1032	1212	95.44997		102.2		99.5
Prior MRR7d	1049	1214	68.26895	1040	1219	95.44997	1059	1200	68.26895	1049	1224	95.44997		100.1		99.5
Prior MRR8d	1043	1157	68.26895	1028	1203	95.44997	1073	1173	68.26895	1039	1215	95.44997		103.3		99.4
Prior MRR9d	1044	1161	68.26895	1031	1209	95.44997	1068	1177	68.26895	1041	1217	95.44997		103.9		99.5
Prior MRR10d	1053	1220	68.26895	1044	1259	95.44997	1055	1215	68.26895	1051	1227	95.44997		86		99.3
Last MRR1d R1 TmodC							1138	1228	68.26895	1073	1244	95.44997				99.1
Boundary TS2 MRR1d Tau mod Char R1							1140	1239	68.26895	1074	1258	95.44997				97

2.47.3 – Dataset MRR1d; Run 2; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.2 Aoverall 98.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-21	0	68.26895	-151	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	1.4536	68.26895	-3.30E-17	2.162	95.44997		100			96.1
Sequence																	
Tau_Boundary Model MRR1d							1036	1181	68.26895	933	1273	95.44997					96.4
Phase																	
Prior MRR1d	775	953	68.26895	774	977	95.44997	838	993	68.26895	776	1287	95.44997		97.9			97.8
Prior MRR2d	1053	1218	68.26895	1040	1225	95.44997	1158	1251	68.26895	1053	1284	95.44997		106.6			99
Prior MRR3d	1053	1221	68.26895	1045	1260	95.44997	1163	1244	68.26895	1054	1294	95.44997		108			98.8
Prior MRR4d	1044	1162	68.26895	1032	1210	95.44997	1076	1216	68.26895	1040	1269	95.44997		96.2			98.7
Prior MRR5d	1217	1267	68.26895	1168	1275	95.44997	1210	1272	68.26895	1168	1298	95.44997		93.7			99.1
Prior MRR6d	1037	1155	68.26895	1024	1198	95.44997	1048	1181	68.26895	1032	1268	95.44997		98.7			98.7
Prior MRR7d	706	877	68.26895	679	887	95.44997	713	901	68.26895	681	1291	95.44997		100.2			98.1
Prior MRR8d	1220	1266	68.26895	1175	1277	95.44997	1214	1274	68.26895	1170	1298	95.44997		92.3			99.2
Prior MRR9d	1168	1255	68.26895	1053	1270	95.44997	1183	1254	68.26895	1158	1310	95.44997		105.3			99.1
Prior MRR10d	1040	1156	68.26895	1027	1201	95.44997	1068	1205	68.26895	1035	1270	95.44997		97.6			98.5

Last MRR1d R2 TmodC							1224	1275	68.26895	1199	1321	95.44997					99.3
Boundary TS2 MRR1d Tau mod Char R2							1232	1296	68.26895	1207	1348	95.44997					96.3

2.47.4 – Dataset MRR1d; Run 3; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.4 Aoverall 98.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	0	68.26895	-107	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	1.5387	68.26895	-3.30E-17	1.9619	95.44997		100			95.9
Sequence																	
Tau_Boundary Model MRR1d							946	1126	68.26895	763	1190	95.44997					96.6
Phase																	
Prior MRR1d	1053	1219	68.26895	1040	1252	95.44997	1072	1242	68.26895	1051	1271	95.44997		104.5			99
Prior MRR2d	775	885	68.26895	705	973	95.44997	785	945	68.26895	707	1059	95.44997		98.1			98.6
Prior MRR3d	1042	1157	68.26895	1027	1202	95.44997	1063	1178	68.26895	1033	1241	95.44997		98.5			98.8
Prior MRR4d	576	640	68.26895	553	648	95.44997	582	652	68.26895	547	752	95.44997		101.3			98.8
Prior MRR5d	1219	1266	68.26895	1168	1277	95.44997	1215	1274	68.26895	1168	1302	95.44997		95.1			98.9

Prior MRR6d	894	992	68.26895	776	1021	95.44997	905	1013	68.26895	778	1152	95.44997		100.6			98.4
Prior MRR7d	1221	1265	68.26895	1175	1278	95.44997	1218	1275	68.26895	1170	1302	95.44997		94.3			98.9
Prior MRR8d	1046	1202	68.26895	1039	1213	95.44997	1062	1220	68.26895	1041	1257	95.44997		98.4			99
Prior MRR9d	1054	1222	68.26895	1046	1262	95.44997	1162	1241	68.26895	1052	1286	95.44997		105.5			98.8
Prior MRR10d	896	1014	68.26895	891	1022	95.44997	905	1027	68.26895	887	1127	95.44997		100.4			98.2
Last MRR1d R3 TmodC							1226	1276	68.26895	1197	1327	95.44997					98.7
Boundary TS2 MRR1d Tau mod Char R3							1235	1309	68.26895	1205	1385	95.44997					95.9

2.48.1 – Dataset MRR1d; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRR1d");
    Phase()
    {
      Date(Prior("MRR1d", "MRR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2d", "MRR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3d", "MRR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4d", "MRR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5d", "MRR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6d", "MRR6d.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7d", "MRR7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8d", "MRR8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9d", "MRR9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10d", "MRR10d.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1d R1 Char");
};
Boundary("TS2 MRR1d Char R1");
};
};

```

2.48.2 – Dataset MRR1d; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.4 Aoverall 91.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C

Outlier_Model Charcoal							-48	1	68.26895	-176	1	95.44997					99.6
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.275	2.091	68.26895	3.60E-17	2.196	95.44997		100			98.8
Sequence																	
Boundary Model MRR1d							964	1171	68.26895	903	1212	95.44997					92.8
Phase																	
Prior MRR1d	886	977	68.26895	775	993	95.44997	971	1199	68.26895	939	1234	95.44997		97.6			98.3
Prior MRR2d	995	1147	68.26895	992	1157	95.44997	1030	1196	68.26895	1000	1227	95.44997		96.2			99.3
Prior MRR3d	1054	1222	68.26895	1047	1263	95.44997	1063	1226	68.26895	1053	1245	95.44997		80.6			99.3
Prior MRR4d	1047	1208	68.26895	1040	1216	95.44997	1069	1205	68.26895	1048	1236	95.44997		102.6			99.4
Prior MRR5d	1028	1151	68.26895	996	1160	95.44997	1082	1193	68.26895	1028	1230	95.44997		101.6			99.4
Prior MRR6d	1033	1152	68.26895	997	1165	95.44997	1081	1190	68.26895	1033	1229	95.44997		102			99.4
Prior MRR7d	1049	1214	68.26895	1040	1219	95.44997	1067	1210	68.26895	1049	1238	95.44997		99.5			99.3
Prior MRR8d	1043	1157	68.26895	1028	1203	95.44997	1077	1188	68.26895	1041	1231	95.44997		103.8			99.5
Prior MRR9d	1044	1161	68.26895	1031	1209	95.44997	1076	1188	68.26895	1043	1232	95.44997		104.5			99.5
Prior MRR10d	1053	1220	68.26895	1044	1259	95.44997	1062	1224	68.26895	1052	1243	95.44997		84.6			99.3
Last MRR1d R1 Char							1150	1243	68.26895	1075	1273	95.44997					99.2
Boundary TS2 MRR1d Char R1							1150	1265	68.26895	1076	1308	95.44997					96.6

2.48.3 – Dataset MRR1d; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.8 Aoverall 97.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-112	1	68.26895	-433	1	95.44997					96.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.755	2.466	68.26895	3.60E-17	2.526	95.44997		100			95
Sequence																	
Boundary Model MRR1d							783	1282	68.26895	702	1311	95.44997					85.2
Phase																	
Prior MRR1d	775	953	68.26895	774	977	95.44997	878	1314	68.26895	782	1344	95.44997		97.9			94.7
Prior MRR2d	1053	1218	68.26895	1040	1225	95.44997	1178	1289	68.26895	1054	1335	95.44997		104.1			97.2
Prior MRR3d	1053	1221	68.26895	1045	1260	95.44997	1186	1287	68.26895	1054	1342	95.44997		105			97.4
Prior MRR4d	1044	1162	68.26895	1032	1210	95.44997	1148	1296	68.26895	1045	1325	95.44997		97.8			96.3
Prior MRR5d	1217	1267	68.26895	1168	1275	95.44997	1220	1291	68.26895	1176	1345	95.44997		94.2			98.3
Prior MRR6d	1037	1155	68.26895	1024	1198	95.44997	1125	1296	68.26895	1037	1324	95.44997		99.4			96.3

Prior MRR7d	706	877	68.26895	679	887	95.44997	821	1314	68.26895	785	1351	95.44997		98.2			94.5
Prior MRR8d	1220	1266	68.26895	1175	1277	95.44997	1223	1291	68.26895	1179	1344	95.44997		93.5			98.4
Prior MRR9d	1168	1255	68.26895	1053	1270	95.44997	1203	1288	68.26895	1159	1361	95.44997		103.2			98.1
Prior MRR10d	1040	1156	68.26895	1027	1201	95.44997	1132	1295	68.26895	1040	1324	95.44997		98.7			96.2
Last MRR1d R2 Char							1236	1311	68.26895	1209	1390	95.44997					97.4
Boundary TS2 MRR1d Char R2							1246	1338	68.26895	1213	1443	95.44997					96.5

2.48.4 – Dataset MRR1d; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1d R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 99.5 Aoverall 99.3				
	from	to	%	from	to	%	from	to	%	from	to	%		Acomb	A	L	P	C
Outlier_Model Charcoal							-20	1	68.26895	-117	1	95.44997						99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997												100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.057	1.833	68.26895	3.60E-17	1.971	95.44997		100				98.6
Sequence																		

Boundary Model MRR1d							497	660	68.26895	398	806	95.44997					97.4
Phase																	
Prior MRR1d	1053	1219	68.26895	1040	1252	95.44997	1056	1236	68.26895	1047	1279	95.44997		100			99.6
Prior MRR2d	775	885	68.26895	705	973	95.44997	782	898	68.26895	706	1013	95.44997		100			99.2
Prior MRR3d	1042	1157	68.26895	1027	1202	95.44997	1052	1167	68.26895	1029	1238	95.44997		100.1			99.6
Prior MRR4d	576	640	68.26895	553	648	95.44997	580	665	68.26895	565	818	95.44997		102.4			99.6
Prior MRR5d	1219	1266	68.26895	1168	1277	95.44997	1217	1279	68.26895	1168	1322	95.44997		97.3			99.8
Prior MRR6d	894	992	68.26895	776	1021	95.44997	902	998	68.26895	778	1109	95.44997		100			99.5
Prior MRR7d	1221	1265	68.26895	1175	1278	95.44997	1220	1278	68.26895	1169	1322	95.44997		97.3			99.6
Prior MRR8d	1046	1202	68.26895	1039	1213	95.44997	1055	1210	68.26895	1037	1254	95.44997		100.2			99.7
Prior MRR9d	1054	1222	68.26895	1046	1262	95.44997	1071	1253	68.26895	1051	1285	95.44997		100.3			99.6
Prior MRR10d	896	1014	68.26895	891	1022	95.44997	903	1024	68.26895	885	1113	95.44997		100			99.5
Last MRR1d R3 Char							1230	1283	68.26895	1205	1356	95.44997					99.7
Boundary TS2 MRR1d Char R3							1246	1364	68.26895	1218	1517	95.44997					97.8

2.49.1 – Dataset MRRR1d; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRRR1d");
    Phase()
    {
      Date(Prior("MRRR1d", "MRRR1d.prior"));
      Date(Prior("MRRR2d", "MRRR2d.prior"));
      Date(Prior("MRRR3d", "MRRR3d.prior"));
      Date(Prior("MRRR4d", "MRRR4d.prior"));
      Date(Prior("MRRR5d", "MRRR5d.prior"));
      Last("MRRR1d R1 Tau");
    };
    Boundary("TS2 MRRR1d Tau R1");
  };
};
```

2.49.2 – Dataset MRRR1d; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1d R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 99.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	

Tau_Boundary Model MRRR1d							737	1115	68.26895	167	1204	95.44997					96.2
Phase																	
Prior MRRR1d	1053	1218	68.26895	1040	1226	95.44997	1054	1219	68.26895	1043	1225	95.44997		102.6			99.6
Prior MRRR2d	895	993	68.26895	777	1021	95.44997	896	994	68.26895	887	1022	95.44997		100.2			99.4
Prior MRRR3d	1038	1155	68.26895	1025	1199	95.44997	1041	1158	68.26895	1026	1201	95.44997		99.6			99.7
Prior MRRR4d	551	634	68.26895	444	647	95.44997	557	636	68.26895	483	648	95.44997		100.5			99.6
Prior MRRR5d	1179	1261	68.26895	1159	1273	95.44997	1166	1251	68.26895	1053	1271	95.44997		95.7			99.5
Last MRRR1d R1 Tau							1178	1252	68.26895	1160	1269	95.44997					99.6
Boundary TS2 MRRR1d Tau R1							1187	1330	68.26895	1130	1604	95.44997					96.2

2.49.3 – Dataset MRRR1d; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1d R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 96.2 Aoverall 96.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C	
Sequence																		
Tau_Boundary Model MRRR1d							898	1178	68.26895	468	1245	95.44997					97	

Phase																	
Prior MRRR1d	1046	1200	68.26895	1038	1213	95.44997	1050	1211	68.26895	1044	1216	95.44997		97.5			99.6
Prior MRRR2d	689	873	68.26895	677	882	95.44997	706	878	68.26895	680	886	95.44997		97.8			99.5
Prior MRRR3d	1228	1277	68.26895	1217	1287	95.44997	1223	1274	68.26895	1180	1284	95.44997		94.9			99.6
Prior MRRR4d	1044	1160	68.26895	1031	1208	95.44997	1048	1164	68.26895	1034	1212	95.44997		97.2			99.5
Prior MRRR5d	1054	1222	68.26895	1046	1262	95.44997	1160	1221	68.26895	1049	1262	95.44997		104.7			99.7
Last MRRR1d R2 Tau							1223	1273	68.26895	1205	1285	95.44997					99.6
Boundary TS2 MRRR1d Tau R2							1229	1328	68.26895	1191	1521	95.44997					97.2

2.49.4 – Dataset MRRR1d; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name:TS2 MRRR1d R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.9 Aoverall 99				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1d							753	985	68.26895	376	1057	95.44997					97.4
Phase																	
Prior MRRR1d	892	989	68.26895	775	1018	95.44997	896	992	68.26895	776	1020	95.44997		102.1			99.6
Prior MRRR2d	897	1016	68.26895	891	1022	95.44997	901	1019	68.26895	893	1023	95.44997		101.2			99.5
Prior MRRR3d	775	974	68.26895	774	990	95.44997	776	977	68.26895	775	992	95.44997		101			99.5

Prior MRRR4d	666	773	68.26895	653	775	95.44997	668	773	68.26895	655	821	95.44997		98.3			99.6
Prior MRRR5d	1023	1151	68.26895	995	1158	95.44997	994	1091	68.26895	992	1148	95.44997		95.2			99.3
Last MRRR1d R3 Tau							994	1091	68.26895	992	1148	95.44997					99.3
Boundary TS2 MRRR1d Tau R3							1004	1130	68.26895	991	1322	95.44997					95.7

2.50.1 – Dataset MRRR1d; Exponential Prior/200-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.3),"t");
  Sequence()
  {
    Tau_Boundary("Model MRRR1d");
    Phase()
    {
      Date(Prior("MRRR1d","MRRR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2d","MRRR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3d","MRRR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4d","MRRR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5d","MRRR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1d R1 TmodC");
    };
  };
};
```

```

Boundary("TS2 MRRR1d Tau mod Char R1");
};
};

```

2.50.2 – Dataset MRRR1d; Run 1; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.7 Aoverall 99.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-28	0	68.26895	-200	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	2.323	68.26895	-3.30E-17	2.323	95.44997		100			97.7
Sequence																	
Tau_Boundary Model MRRR1d							757	1164	68.26895	218	1304	95.44997					97.2
Phase																	
Prior MRRR1d	1053	1218	68.26895	1040	1226	95.44997	1058	1245	68.26895	1047	1309	95.44997		101.9			99.5
Prior MRRR2d	895	993	68.26895	777	1021	95.44997	904	1020	68.26895	882	1241	95.44997		100.3			99.1
Prior MRRR3d	1038	1155	68.26895	1025	1199	95.44997	1049	1176	68.26895	1028	1280	95.44997		99.9			99.5
Prior MRRR4d	551	634	68.26895	444	647	95.44997	556	649	68.26895	440	1248	95.44997		100.5			99
Prior MRRR5d	1179	1261	68.26895	1159	1273	95.44997	1180	1265	68.26895	1054	1360	95.44997		96.1			99.5
Last MRRR1d R1 TmodC							1185	1269	68.26895	1156	1399	95.44997					99.6
Boundary TS2 MRRR1d Tau mod Char R1							1200	1370	68.26895	1161	1650	95.44997					97.4

2.50.3 – Dataset MRRR1d; Run 2; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.2 Aoverall 97.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-29	0	68.26895	-187	0	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	2.2655	68.26895	-3.30E-17	2.2678	95.44997		100			98.3
Sequence																	
Tau_Boundary Model MRRR1d							915	1226	68.26895	527	1333	95.44997					95.4
Phase																	
Prior MRRR1d	1046	1200	68.26895	1038	1213	95.44997	1062	1222	68.26895	1038	1307	95.44997		98			99
Prior MRRR2d	689	873	68.26895	677	882	95.44997	707	894	68.26895	674	1296	95.44997		97.7			98.5
Prior MRRR3d	1228	1277	68.26895	1217	1287	95.44997	1228	1284	68.26895	1182	1359	95.44997		95.8			99.3
Prior MRRR4d	1044	1160	68.26895	1031	1208	95.44997	1063	1206	68.26895	1034	1301	95.44997		97.7			99.2
Prior MRRR5d	1054	1222	68.26895	1046	1262	95.44997	1163	1260	68.26895	1053	1324	95.44997		104.4			99
Last MRRR1d R2 TmodC							1226	1287	68.26895	1202	1391	95.44997					99.3
Boundary TS2 MRRR1d Tau mod Char R2							1238	1365	68.26895	1210	1558	95.44997					96.4

2.50.4 – Dataset MRRR1d; Run 3; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 99.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-31	0	68.26895	-193	0	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	-3.30E-17	2.185	68.26895	-3.30E-17	2.1896	95.44997		100			98.3
Sequence																	
Tau_Boundary Model MRRR1d							782	1042	68.26895	436	1144	95.44997					97.8
Phase																	
Prior MRRR1d	892	989	68.26895	775	1018	95.44997	906	1013	68.26895	779	1134	95.44997		102.2			99.3
Prior MRRR2d	897	1016	68.26895	891	1022	95.44997	907	1035	68.26895	891	1122	95.44997		101.2			99.3
Prior MRRR3d	775	974	68.26895	774	990	95.44997	844	1006	68.26895	777	1095	95.44997		101.2			99.3
Prior MRRR4d	666	773	68.26895	653	775	95.44997	668	799	68.26895	657	1068	95.44997		98.4			99.1
Prior MRRR5d	1023	1151	68.26895	995	1158	95.44997	997	1114	68.26895	994	1182	95.44997		96.4			99.5
Last MRRR1d R3 TmodC							998	1115	68.26895	994	1196	95.44997					99.3
Boundary TS2 MRRR1d Tau mod Char R3							1019	1170	68.26895	996	1344	95.44997					97.3

2.51.1 – Dataset MRRR1d; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRRR1d");
    Phase()
    {
      Date(Prior("MRRR1d", "MRRR1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2d", "MRRR2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3d", "MRRR3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4d", "MRRR4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5d", "MRRR5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1d R1 Char");
    };
  };
};
```

```
Boundary("TS2 MRRR1d Char R1");
};
};
```

2.51.2 – Dataset MRRR1d; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99 Aoverall 98.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-140	1	68.26895	-719	1	95.44997					97.6
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.6
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.216	2.787	68.26895	3.60E-17	2.793	95.44997		100			77.9
Sequence																	
Boundary Model MRRR1d							339	1316	68.26895	-84	...	95.44997					80.3
Phase																	
Prior MRRR1d	1053	1218	68.26895	1040	1226	95.44997	1058	1303	68.26895	1045	1438	95.44997		99.5			95.8
Prior MRRR2d	895	993	68.26895	777	1021	95.44997	894	1292	68.26895	883	1431	95.44997		100.1			92
Prior MRRR3d	1038	1155	68.26895	1025	1199	95.44997	1049	1244	68.26895	1027	1424	95.44997		100.3			93.9
Prior MRRR4d	551	634	68.26895	444	647	95.44997	546	1346	68.26895	539	1418	95.44997		100.5			86.5
Prior MRRR5d	1179	1261	68.26895	1159	1273	95.44997	1178	1303	68.26895	1055	1502	95.44997		96.8			97.3

Last MRRR1d R1 Char							1181	1333	68.26895	1156	1619	95.44997					95.7
Boundary TS2 MRRR1d Char R1							1211	1519	68.26895	1170	2049	95.44997					96.3

2.51.3 – Dataset MRRR1d; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.8 Aoverall 96.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-106	1	68.26895	-494	1	95.44997					99.2
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.275	2.61	68.26895	3.60E-17	2.616	95.44997		100			97.6
Sequence																	
Boundary Model MRRR1d							675	...	68.26895	400	...	95.44997					92.3
Phase																	
Prior MRRR1d	1046	1200	68.26895	1038	1213	95.44997	1070	1291	68.26895	1039	1357	95.44997		99.3			97.9
Prior MRRR2d	689	873	68.26895	677	882	95.44997	715	1319	68.26895	693	1358	95.44997		95.4			96
Prior MRRR3d	1228	1277	68.26895	1217	1287	95.44997	1231	1302	68.26895	1208	1412	95.44997		96.3			99.5
Prior MRRR4d	1044	1160	68.26895	1031	1208	95.44997	1081	1288	68.26895	1035	1354	95.44997		99.1			97.8

Prior MRRR5d	1054	1222	68.26895	1046	1262	95.44997	1168	1292	68.26895	1053	1373	95.44997		102.5			98.7
Last MRRR1d R2 Char							1229	1318	68.26895	1213	1455	95.44997					99.3
Boundary TS2 MRRR1d Char R2							1245	1423	68.26895	1214	1738	95.44997					97.7

2.51.4 – Dataset MRRR1d; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1d RE Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.4 Aoverall 98.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-64	1	68.26895	-307	1	95.44997					99.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.765	2.427	68.26895	3.60E-17	2.475	95.44997		100			96.7
Sequence																	
Boundary Model MRRR1d							604	1036	68.26895	357	1158	95.44997					95.7
Phase																	
Prior MRRR1d	892	989	68.26895	775	1018	95.44997	895	1032	68.26895	778	1176	95.44997		101.1			99.2
Prior MRRR2d	897	1016	68.26895	891	1022	95.44997	903	1046	68.26895	889	1177	95.44997		100.5			99
Prior MRRR3d	775	974	68.26895	774	990	95.44997	839	1033	68.26895	776	1154	95.44997		100.8			98.8

Prior MRRR4d	666	773	68.26895	653	775	95.44997	669	1064	68.26895	662	1147	95.44997		96			98.3
Prior MRRR5d	1023	1151	68.26895	995	1158	95.44997	1003	1132	68.26895	994	1226	95.44997		98.1			99.3
Last MRRR1d R3 Char							1021	1148	68.26895	994	1265	95.44997					99.1
Boundary TS2 MRRR1d Char R3							1031	1229	68.26895	999	1544	95.44997					97.4

2.52.1 – Dataset MR1e; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MR1e");
    Phase()
    {
      Date(Prior("MR1e", "MR1e.prior"));
      Date(Prior("MR2e", "MR2e.prior"));
      Date(Prior("MR3e", "MR3e.prior"));
      Date(Prior("MR4e", "MR4e.prior"));
      Date(Prior("MR5e", "MR5e.prior"));
      Date(Prior("MR6e", "MR6e.prior"));
      Date(Prior("MR7e", "MR7e.prior"));
      Date(Prior("MR8e", "MR8e.prior"));
      Date(Prior("MR9e", "MR9e.prior"));
      Date(Prior("MR10e", "MR10e.prior"));
      Date(Prior("MR11e", "MR11e.prior"));
      Date(Prior("MR12e", "MR12e.prior"));
      Date(Prior("MR13e", "MR13e.prior"));
      Date(Prior("MR14e", "MR14e.prior"));
      Date(Prior("MR15e", "MR15e.prior"));
      Last("MR1e R1 Tua");
    };
    Boundary("TS2 MR1e Tau R1");
  };
};
```

2.52.2 – Dataset MR1e; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1e R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.6 Aoverall 96.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1e							612	866	68.26895	389	948	95.44997					97.5
Phase																	
Prior MR1e	775	950	68.26895	774	976	95.44997	775	953	68.26895	774	977	95.44997		99			99.7
Prior MR2e	679	820	68.26895	668	877	95.44997	683	822	68.26895	670	878	95.44997		96.9			99.7
Prior MR3e	1039	1156	68.26895	1026	1201	95.44997	1042	1155	68.26895	1026	1176	95.44997		101.6			99.8
Prior MR4e	892	989	68.26895	775	1018	95.44997	895	990	68.26895	776	1019	95.44997		101.2			99.7
Prior MR5e	979	1032	68.26895	894	1146	95.44997	979	1032	68.26895	895	1148	95.44998		100.7			99.7
Prior MR6e	1048	1210	68.26895	1040	1217	95.44997	1046	1198	68.26895	1039	1208	95.44997		101.2			99.8
Prior MR7e	677	774	68.26895	664	874	95.44997	678	797	68.26895	665	877	95.44997		97			99.7
Prior MR8e	1162	1252	68.26895	1051	1268	95.44997	1053	1211	68.26895	1045	1254	95.44997		85.6			99.6
Prior MR9e	777	977	68.26895	775	993	95.44997	887	988	68.26895	775	994	95.44997		101.8			99.6
Prior MR10e	652	772	68.26895	644	774	95.44997	653	772	68.26895	645	774	95.44997		98.6			99.6
Prior MR11e	265	417	68.26895	254	531	95.44997	266	419	68.26895	255	533	95.44997		99.8			99.7
Prior MR12e	1045	1198	68.26895	1036	1212	95.44997	1045	1166	68.26895	1034	1204	95.44997		102.5			99.8
Prior MR13e	-988	-849	68.26895	-1011	-833	95.44997	-980	-844	68.26895	-1008	-832	95.44997		99.5			99.5
Prior MR14e	1024	1151	68.26895	995	1158	95.44997	1024	1150	68.26895	995	1158	95.44997		100.5			99.7

Prior MR15e	418	535	68.26895	406	549	95.44997	420	537	68.26895	407	550	95.44997		100.2			99.7
Last MR1e R1 Tua							1157	1220	68.26895	1073	1233	95.44997					99.7
Boundary TS2 MR1e Tau R1							1163	1259	68.26895	1083	1313	95.44997					96.6

2.52.3 – Dataset MR1e; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1e R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.6 Aoverall 97.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1e							378	778	68.26895	38	889	95.44997					96.2
Phase																	
Prior MR1e	1024	1151	68.26895	995	1158	95.44997	1025	1152	68.26895	995	1159	95.44997		100.1			99.7
Prior MR2e	1053	1217	68.26895	1040	1223	95.44997	1053	1218	68.26895	1042	1223	95.44997		101.4			99.8
Prior MR3e	608	665	68.26895	597	771	95.44997	608	666	68.26895	598	771	95.44997		99.6			99.8
Prior MR4e	267	530	68.26895	261	537	95.44997	365	532	68.26895	262	538	95.44997		99.5			99.6
Prior MR5e	382	533	68.26895	265	539	95.44997	383	534	68.26895	265	540	95.44997		100			99.6
Prior MR6e	1229	1279	68.26895	1219	1290	95.44997	1223	1276	68.26895	1180	1288	95.44997		92.8			99.6
Prior MR7e	-335	-58	68.26895	-350	-46	95.44997	-196	-56	68.26895	-350	-44	95.44997		100.8			99.5
Prior MR8e	1044	1165	68.26895	1034	1211	95.44997	1045	1166	68.26895	1035	1212	95.44997		99.1			99.7
Prior MR9e	-1392	-1274	68.26895	-1416	-1224	95.44997	-1388	-1269	68.26895	-1414	-1223	95.44997		99.2			99.6

Prior MR10e	774	879	68.26895	680	891	95.44997	774	879	68.26895	682	939	95.44997		100.6			99.7
Prior MR11e	264	426	68.26895	257	535	95.44997	265	429	68.26895	258	536	95.44997		99.3			99.7
Prior MR12e	775	973	68.26895	774	989	95.44997	775	974	68.26895	774	990	95.44997		100			99.7
Prior MR13e	429	536	68.26895	414	555	95.44997	432	538	68.26895	415	556	95.44997		99.8			99.6
Prior MR14e	1044	1164	68.26895	1033	1210	95.44997	1046	1165	68.26895	1034	1212	95.44997		99.1			99.8
Prior MR15e	775	972	68.26895	774	988	95.44997	775	974	68.26895	774	989	95.44997		99.9			99.7
Last MR1e R2 Tau							1223	1276	68.26895	1182	1289	95.44997					99.6
Boundary TS2 MR1e Tau R2							1234	1321	68.26895	1212	1444	95.44997					97.8

2.52.4 – Dataset MR1e; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MR1e R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.3 Aoverall 97.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MR1e							541	847	68.26895	268	937	95.44997					97.5
Phase																	
Prior MR1e	-1256	-1116	68.26895	-1275	-1020	95.44997	-1253	-1059	68.26895	-1267	-1019	95.44997		99.4			99.6
Prior MR2e	1029	1151	68.26895	996	1161	95.44997	1031	1153	68.26895	997	1162	95.44997		100.3			99.7
Prior MR3e	993	1118	68.26895	978	1156	95.44997	994	1121	68.26895	979	1157	95.44998		97.3			99.7
Prior MR4e	1054	1222	68.26895	1047	1263	95.44997	1158	1220	68.26895	1047	1256	95.44997		103.3			99.7

Prior MR5e	897	1016	68.26895	891	1022	95.44997	899	1018	68.26895	892	1022	95.44997		100.3			99.7
Prior MR6e	1051	1216	68.26895	1040	1221	95.44997	1052	1215	68.26895	1043	1221	95.44997		101.6			99.8
Prior MR7e	256	402	68.26895	247	410	95.44997	258	402	68.26895	248	412	95.44997		100			99.6
Prior MR8e	1035	1154	68.26895	1022	1198	95.44997	1038	1155	68.26895	1023	1175	95.44997		100.2			99.7
Prior MR9e	1182	1266	68.26895	1166	1272	95.44997	1167	1244	68.26895	1158	1270	95.44997		86.6			99.7
Prior MR10e	775	882	68.26895	690	954	95.44997	775	884	68.26895	704	972	95.44997		100			99.7
Prior MR11e	1043	1157	68.26895	1028	1203	95.44997	1046	1159	68.26895	1029	1203	95.44997		99.7			99.7
Prior MR12e	776	976	68.26895	775	992	95.44997	776	977	68.26895	775	992	95.44997		101.2			99.7
Prior MR13e	890	977	68.26895	775	1011	95.44997	891	988	68.26895	775	1014	95.44997		101.3			99.7
Prior MR14e	-379	-208	68.26895	-392	-199	95.44997	-371	-206	68.26895	-391	-198	95.44997		100.1			99.7
Prior MR15e	265	527	68.26895	260	537	95.44997	362	530	68.26895	261	538	95.44997		99			99.6
Last MR1e R3 Tau							1182	1244	68.26895	1168	1265	95.44997					99.8
Boundary TS2 MR1e Tau R3							1200	1284	68.26895	1170	1368	95.44997					98.6

2.53.1 – Dataset MR1e; Exponential Prior/500-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MR1e");
    Phase()
    {
      Date(Prior("MR1e","MR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2e","MR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3e","MR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4e","MR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5e","MR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6e","MR6e.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7e","MR7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8e","MR8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9e","MR9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10e","MR10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11e","MR11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12e","MR12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13e","MR13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14e","MR14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15e","MR15e.prior"))
{

```

```

Outlier("Charcoal", 1);
};
Last("MR1e R1 TmodC");
};
Boundary("TS2 MR1e Tau mod Char R1");
};
};

```

2.53.2 – Dataset MR1e; Run 1; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.3 Aoverall 96.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-120	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	1.5714	68.26895	4.34E-19	2.0115	95.44997		100			98.2
Sequence																	
Tau_Boundary Model MR1e							627	892	68.26895	407	982	95.44997					97.6
Phase																	
Prior MR1e	775	950	68.26895	774	976	95.44997	783	978	68.26895	775	1055	95.44997		99			98.9
Prior MR2e	679	820	68.26895	668	877	95.44997	689	833	68.26895	668	937	95.44997		96.8			98.9
Prior MR3e	1039	1156	68.26895	1026	1201	95.44997	1063	1166	68.26895	1031	1220	95.44997		101.6			99.3
Prior MR4e	892	989	68.26895	775	1018	95.44997	900	996	68.26895	777	1095	95.44997		101.1			98.9
Prior MR5e	979	1032	68.26895	894	1146	95.44997	979	1062	68.26895	900	1163	95.44997		100.8			99.1

Prior MR6e	1048	1210	68.26895	1040	1217	95.44997	1054	1202	68.26895	1040	1233	95.44997		101.1			99.3
Prior MR7e	677	774	68.26895	664	874	95.44997	686	823	68.26895	665	921	95.44997		97			98.8
Prior MR8e	1162	1252	68.26895	1051	1268	95.44997	1059	1231	68.26895	1051	1270	95.44997		88			98.9
Prior MR9e	777	977	68.26895	775	993	95.44997	892	995	68.26895	777	1080	95.44997		101.9			98.9
Prior MR10e	652	772	68.26895	644	774	95.44997	656	778	68.26895	644	877	95.44997		98.6			98.7
Prior MR11e	265	417	68.26895	254	531	95.44997	267	442	68.26895	258	554	95.44997		99.8			98.8
Prior MR12e	1045	1198	68.26895	1036	1212	95.44997	1055	1179	68.26895	1038	1228	95.44997		102.4			99.3
Prior MR13e	-988	-849	68.26895	-1011	-833	95.44997	-974	-833	68.26895	-1040	-737	95.44997		99.6			98.7
Prior MR14e	1024	1151	68.26895	995	1158	95.44997	1030	1160	68.26895	998	1203	95.44997		100.4			99.2
Prior MR15e	418	535	68.26895	406	549	95.44997	432	546	68.26895	406	638	95.44997		100.2			99
Last MR1e R1 TmodC							1159	1237	68.26895	1089	1284	95.44997					99.1
Boundary TS2 MR1e Tau mod Char R1							1173	1278	68.26895	1104	1352	95.44997					97.8

2.53.3 – Dataset MR1e; Run 2; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.5 Aoverall 98.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-56	1	68.26895	-379	1	95.44997					98.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	0.054	2.4867	68.26895	4.34E-19	2.4921	95.44997		100			43.7
Sequence																	
Tau_Boundary Model MR1e							409	864	68.26895	91	1030	95.44997					87
Phase																	

Prior MR1e	1024	1151	68.26895	995	1158	95.44997	1028	1174	68.26895	997	1322	95.44997		100.1			94
Prior MR2e	1053	1217	68.26895	1040	1223	95.44997	1058	1261	68.26895	1046	1349	95.44997		100.6			94.9
Prior MR3e	608	665	68.26895	597	771	95.44997	606	761	68.26895	588	1110	95.44997		99.8			94.7
Prior MR4e	267	530	68.26895	261	537	95.44997	366	549	68.26895	260	956	95.44997		99.5			94.4
Prior MR5e	382	533	68.26895	265	539	95.44997	384	559	68.26895	262	952	95.44997		100.2			93.7
Prior MR6e	1229	1279	68.26895	1219	1290	95.44997	1227	1293	68.26895	1186	1387	95.44997		94.4			93.8
Prior MR7e	-335	-58	68.26895	-350	-46	95.44997	-334	-21	68.26895	-352	510	95.44997		101			94
Prior MR8e	1044	1165	68.26895	1034	1211	95.44997	1064	1212	68.26895	1035	1332	95.44997		99.8			94.5
Prior MR9e	-1392	-1274	68.26895	-1416	-1224	95.44997	-1390	-1219	68.26895	-1428	-720	95.44997		99.1			94.8
Prior MR10e	774	879	68.26895	680	891	95.44997	711	939	68.26895	683	1203	95.44997		100.6			93.7
Prior MR11e	264	426	68.26895	257	535	95.44997	270	540	68.26895	258	900	95.44997		99.4			93.8
Prior MR12e	775	973	68.26895	774	989	95.44997	780	1001	68.26895	775	1246	95.44997		100.1			94
Prior MR13e	429	536	68.26895	414	555	95.44997	429	572	68.26895	407	1002	95.44997		99.8			94.6
Prior MR14e	1044	1164	68.26895	1033	1210	95.44997	1063	1211	68.26895	1034	1335	95.44997		99.9			94.6
Prior MR15e	775	972	68.26895	774	988	95.44997	780	1000	68.26895	775	1262	95.44997		99.9			93.5
Last MR1e R2 TmodC							1225	1302	68.26895	1210	1431	95.44997					91.7
Boundary TS2 MR1e Tau mod Char R2							1245	1371	68.26895	1223	1509	95.44997					93.1

2.53.4 – Dataset MR1e; Run 3; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.7 Aoverall 97.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-20	1	68.26895	-142	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	1.4499	68.26895	4.34E-19	2.0655	95.44997		100			97.4
Sequence																	
Tau_Boundary Model MR1e							550	876	68.26895	282	981	95.44997					97.8
Phase																	
Prior MR1e	-1256	-1116	68.26895	-1275	-1020	95.44997	-1217	-1056	68.26895	-1285	-928	95.44997		99.3			98.6
Prior MR2e	1029	1151	68.26895	996	1161	95.44997	1034	1165	68.26895	999	1241	95.44997		100.3			99.5
Prior MR3e	993	1118	68.26895	978	1156	95.44997	997	1154	68.26895	982	1231	95.44997		97.5			99.3
Prior MR4e	1054	1222	68.26895	1047	1263	95.44997	1076	1246	68.26895	1052	1286	95.44997		102.3			99.4
Prior MR5e	897	1016	68.26895	891	1022	95.44997	904	1027	68.26895	886	1150	95.44997		100.3			99.3
Prior MR6e	1051	1216	68.26895	1040	1221	95.44997	1055	1228	68.26895	1044	1270	95.44997		101			99.4
Prior MR7e	256	402	68.26895	247	410	95.44997	263	414	68.26895	242	528	95.44997		100			98.9
Prior MR8e	1035	1154	68.26895	1022	1198	95.44997	1044	1167	68.26895	1025	1245	95.44997		100.3			99.4
Prior MR9e	1182	1266	68.26895	1166	1272	95.44997	1181	1262	68.26895	1058	1328	95.44997		88.5			99.2

Prior MR10e	775	882	68.26895	690	954	95.44997	782	900	68.26895	693	1030	95.44997		100			99.1
Prior MR11e	1043	1157	68.26895	1028	1203	95.44997	1059	1172	68.26895	1031	1246	95.44997		100			99.5
Prior MR12e	776	976	68.26895	775	992	95.44997	844	996	68.26895	776	1081	95.44997		101.2			99.2
Prior MR13e	890	977	68.26895	775	1011	95.44997	896	996	68.26895	776	1111	95.44997		101.3			99.2
Prior MR14e	-379	-208	68.26895	-392	-199	95.44997	-368	-196	68.26895	-392	-88	95.44997		100.2			98.7
Prior MR15e	265	527	68.26895	260	537	95.44997	367	537	68.26895	260	631	95.44997		99.2			98.7
Last MR1e R3 TmodC							1195	1267	68.26895	1165	1339	95.44997					99.3
Boundary TS2 MR1e Tau mod Char R3							1207	1313	68.26895	1176	1418	95.44997					98

2.54.1 – Dataset MR1e; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MR1e");
    Phase()
    {
      Date(Prior("MR1e","MR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR2e","MR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR3e","MR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR4e","MR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR5e","MR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MR6e","MR6e.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("MR7e","MR7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR8e","MR8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR9e","MR9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR10e","MR10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR11e","MR11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR12e","MR12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR13e","MR13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR14e","MR14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MR15e","MR15e.prior"))
{

```



```

Outlier("Charcoal", 1);
};
Last("MR1e R1 Char");
};
Boundary("TS2 MR1e Char R1");
};
};

```

2.54.2 – Dataset MR1e; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.6 Aoverall 97.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-372	1	68.26895	-2183	1	95.44997					52.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.5
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	2.355	2.682	68.26895	0.204	2.898	95.44998		100			63.8
Sequence																	
Boundary Model MR1e							758	1252	68.26895	-1213	1276	95.44997					46
Phase																	
Prior MR1e	775	950	68.26895	774	976	95.44997	958	1287	68.26895	782	1382	95.44997		99.3			77.9
Prior MR2e	679	820	68.26895	668	877	95.44997	816	1308	68.26895	693	1358	95.44997		96.8			72.6
Prior MR3e	1039	1156	68.26895	1026	1201	95.44997	1114	1279	68.26895	1047	1407	95.44997		101.4			87

Prior MR4e	892	989	68.26895	775	1018	95.44997	975	1276	68.26895	889	1395	95.44997		100.9			76.1
Prior MR5e	979	1032	68.26895	894	1146	95.44997	1017	1263	68.26895	967	1405	95.44997		101.2			77.6
Prior MR6e	1048	1210	68.26895	1040	1217	95.44997	1122	1291	68.26895	1055	1415	95.44997		100.9			88.1
Prior MR7e	677	774	68.26895	664	874	95.44997	748	1312	68.26895	689	1363	95.44997		97.1			71.9
Prior MR8e	1162	1252	68.26895	1051	1268	95.44997	1179	1322	68.26895	1075	1431	95.44997		92.6			92.7
Prior MR9e	777	977	68.26895	775	993	95.44997	972	1278	68.26895	878	1408	95.44997		101.4			75.4
Prior MR10e	652	772	68.26895	644	774	95.44997	664	1311	68.26895	655	1361	95.44997		98.5			70
Prior MR11e	265	417	68.26895	254	531	95.44997	389	1319	68.26895	264	1420	95.44997		99.3			67.9
Prior MR12e	1045	1198	68.26895	1036	1212	95.44997	1120	1285	68.26895	1054	1411	95.44997		102.4			86.6
Prior MR13e	-988	-849	68.26895	-1011	-833	95.44997	-909	1334	68.26895	-1004	1490	95.44997		99.1			69
Prior MR14e	1024	1151	68.26895	995	1158	95.44997	1104	1275	68.26895	1026	1412	95.44997		100.3			84
Prior MR15e	418	535	68.26895	406	549	95.44997	507	1318	68.26895	418	1400	95.44997		100.2			66.2
Last MR1e R1 Char							1194	1375	68.26895	1132	1555	95.44997					87.2
Boundary TS2 MR1e Char R1							1214	1437	68.26895	1127	1654	95.44997					75.2

2.54.3 – Dataset MR1e; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.2 Aoverall 99.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-328	1	68.26895	-1447	1	95.44997					8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											98.6
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.14	2.976	68.26895	3.60E-17	2.976	95.44997		100			2.5
Sequence																	
Boundary Model MR1e							-1632	1348	68.26895	-2004	1428	95.44997					10.8
Phase																	
Prior MR1e	1024	1151	68.26895	995	1158	95.44997	1030	1294	68.26895	998	1517	95.44997		99.9			47.7
Prior MR2e	1053	1217	68.26895	1040	1223	95.44997	1061	1350	68.26895	1047	1530	95.44997		99			59.7
Prior MR3e	608	665	68.26895	597	771	95.44997	604	1334	68.26895	601	1443	95.44997		99.9			11.8
Prior MR4e	267	530	68.26895	261	537	95.44997	267	1388	68.26895	265	1449	95.44997		99.8			14
Prior MR5e	382	533	68.26895	265	539	95.44997	363	1344	68.26895	267	1445	95.44997		100.1			14.2
Prior MR6e	1229	1279	68.26895	1219	1290	95.44997	1230	1374	68.26895	1218	1607	95.44997		98.3			58.5
Prior MR7e	-335	-58	68.26895	-350	-46	95.44997	-342	1437	68.26895	-347	1491	95.44997		100.8			13.5
Prior MR8e	1044	1165	68.26895	1034	1211	95.44997	1058	1309	68.26895	1036	1517	95.44997		100.6			53.8
Prior MR9e	-1392	-1274	68.26895	-1416	-1224	95.44997	-1407	1442	68.26895	-1422	1573	95.44998		97.7			14.2

Prior MR10e	774	879	68.26895	680	891	95.44997	709	1314	68.26895	694	1462	95.44997		100.2			26.7
Prior MR11e	264	426	68.26895	257	535	95.44997	264	1388	68.26895	262	1448	95.44997		99.5			13
Prior MR12e	775	973	68.26895	774	989	95.44997	779	1315	68.26895	776	1460	95.44997		100			30.3
Prior MR13e	429	536	68.26895	414	555	95.44997	419	1354	68.26895	417	1438	95.44997		99.9			11.5
Prior MR14e	1044	1164	68.26895	1033	1210	95.44997	1061	1302	68.26895	1035	1511	95.44997		100.6			54.4
Prior MR15e	775	972	68.26895	774	988	95.44997	779	1319	68.26895	776	1464	95.44997		100			32.5
Last MR1e R2 Char							1227	1457	68.26895	1219	1726	95.44997					46.3
Boundary TS2 MR1e Char R2							1280	1609	68.26895	1238	1951	95.44997					80.5

2.54.4 – Dataset MR1e; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MR1e R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.1 Aoverall 98.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-32	1	68.26895	-211	1	95.44997					99.2
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.262	68.26895	3.60E-17	2.289	95.44997		100			79.7
Sequence																	
Boundary Model MR1e							-1455	-1040	68.26895	-1743	...	95.44997					85.9

Phase																	
Prior MR1e	-1256	-1116	68.26895	-1275	-1020	95.44997	-1215	-1018	68.26895	-1282	-114	95.44997		94.9			95.3
Prior MR2e	1029	1151	68.26895	996	1161	95.44997	1033	1167	68.26895	997	1292	95.44997		100			97.7
Prior MR3e	993	1118	68.26895	978	1156	95.44997	997	1153	68.26895	980	1279	95.44997		100.2			97.5
Prior MR4e	1054	1222	68.26895	1047	1263	95.44997	1070	1264	68.26895	1049	1346	95.44997		100			97.7
Prior MR5e	897	1016	68.26895	891	1022	95.44997	902	1028	68.26895	885	1190	95.44997		100			97.8
Prior MR6e	1051	1216	68.26895	1040	1221	95.44997	1055	1232	68.26895	1040	1331	95.44997		99.8			97.7
Prior MR7e	256	402	68.26895	247	410	95.44997	261	416	68.26895	242	557	95.44997		99.9			97.8
Prior MR8e	1035	1154	68.26895	1022	1198	95.44997	1042	1168	68.26895	1024	1286	95.44997		100.1			97.7
Prior MR9e	1182	1266	68.26895	1166	1272	95.44997	1184	1280	68.26895	1161	1399	95.44997		97.4			97.8
Prior MR10e	775	882	68.26895	690	954	95.44997	779	942	68.26895	691	1071	95.44997		99.9			97.7
Prior MR11e	1043	1157	68.26895	1028	1203	95.44997	1051	1174	68.26895	1029	1300	95.44997		100.3			97.9
Prior MR12e	776	976	68.26895	775	992	95.44997	781	997	68.26895	776	1129	95.44997		99.8			97.6
Prior MR13e	890	977	68.26895	775	1011	95.44997	890	1003	68.26895	777	1139	95.44997		99.8			97.9
Prior MR14e	-379	-208	68.26895	-392	-199	95.44997	-373	-194	68.26895	-392	-32	95.44997		100			97.5
Prior MR15e	265	527	68.26895	260	537	95.44997	365	536	68.26895	260	662	95.44997		100.2			97.6
Last MR1e R3 Char							1196	1290	68.26895	1172	1429	95.44997					95.8
Boundary TS2 MR1e Char R3							1232	1499	68.26895	1189	1813	95.44997					95.8

2.55.1 – Dataset MRR1e; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRR1e");
    Phase()
    {
      Date(Prior("MRR1e", "MRR1e.prior"));
      Date(Prior("MRR2e", "MRR2e.prior"));
      Date(Prior("MRR3e", "MRR3e.prior"));
      Date(Prior("MRR4e", "MRR4e.prior"));
      Date(Prior("MRR5e", "MRR5e.prior"));
      Date(Prior("MRR6e", "MRR6e.prior"));
      Date(Prior("MRR7e", "MRR7e.prior"));
      Date(Prior("MRR8e", "MRR8e.prior"));
      Date(Prior("MRR9e", "MRR9e.prior"));
      Date(Prior("MRR10e", "MRR10e.prior"));
      Last("MRR1e R1 Tau");
    };
    Boundary("TS2 MRR1e Tau R1");
  };
};
```

2.55.2 – Dataset MRR1e; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1e R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 105 Aoverall 104.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1e							580	892	68.26895	262	975	95.44997					95
Phase																	
Prior MRR1e	902	1024	68.26895	893	1032	95.44997	904	1025	68.26895	893	1033	95.44997		102.3			99.6
Prior MRR2e	776	977	68.26895	775	992	95.44997	777	988	68.26895	775	993	95.44997		101.8			99.7
Prior MRR3e	1047	1203	68.26895	1039	1215	95.44997	1041	1165	68.26895	1034	1202	95.44997		103.1			99.8
Prior MRR4e	1040	1156	68.26895	1027	1201	95.44997	1037	1131	68.26895	1025	1167	95.44997		102.9			99.7
Prior MRR5e	680	820	68.26895	668	877	95.44997	684	822	68.26895	671	878	95.44997		96.7			99.7
Prior MRR6e	991	1112	68.26895	900	1153	95.44997	991	1112	68.26895	901	1153	95.44997		100.3			99.7
Prior MRR7e	893	990	68.26895	775	1019	95.44997	896	991	68.26895	776	1020	95.44997		101.1			99.6
Prior MRR8e	1044	1174	68.26895	1036	1212	95.44997	1040	1160	68.26895	1031	1201	95.44997		104.8			99.7
Prior MRR9e	707	878	68.26895	680	889	95.44997	774	881	68.26895	680	891	95.44997		100.8			99.7
Prior MRR10e	-1051	-931	68.26895	-1119	-913	95.44997	-1049	-930	68.26895	-1115	-911	95.44997		101.2			99.6
Last MRR1e R1 Tau							1078	1176	68.26895	1062	1210	95.44997					99.8
Boundary TS2 MRR1e Tau R1							1105	1229	68.26895	1063	1330	95.44997					97.8

2.55.3 – Dataset MRR1e; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1e R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.8 Aoverall 101.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1e							570	929	68.26895	211	1024	95.44997					96.8
Phase																	
Prior MRR1e	774	879	68.26895	680	891	95.44997	774	879	68.26895	683	940	95.44997		100.9			99.8
Prior MRR2e	-42	61	68.26895	-90	119	95.44997	-41	62	68.26895	-88	120	95.44997		99.1			99.6
Prior MRR3e	1033	1152	68.26895	997	1165	95.44997	1036	1154	68.26895	997	1167	95.44997		100.2			99.7
Prior MRR4e	1046	1200	68.26895	1038	1213	95.44997	1048	1201	68.26895	1040	1212	95.44997		99.6			99.8
Prior MRR5e	1168	1255	68.26895	1053	1270	95.44997	1164	1225	68.26895	1053	1265	95.44997		100.7			99.7
Prior MRR6e	1164	1252	68.26895	1052	1268	95.44997	1164	1223	68.26895	1051	1265	95.44997		102.4			99.8
Prior MRR7e	1034	1152	68.26895	997	1166	95.44997	1036	1154	68.26895	1021	1174	95.44997		100.2			99.8
Prior MRR8e	776	977	68.26895	775	992	95.44997	884	988	68.26895	775	993	95.44997		101.7			99.7
Prior MRR9e	129	214	68.26895	79	245	95.44997	129	218	68.26895	80	303	95.44997		100.2			99.6
Prior MRR10e	256	402	68.26895	247	411	95.44997	259	403	68.26895	249	413	95.44997		100.1			99.7
Last MRR1e R2 Tau							1180	1252	68.26895	1166	1265	95.44997					99.8
Boundary TS2 MRR1e Tau R2							1196	1299	68.26895	1166	1433	95.44997					98.8

2.55.4 – Dataset MRR1e; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRR1e R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100 Aoverall 99.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRR1e							589	932	68.26895	248	1023	95.44997					96.7
Phase																	
Prior MRR1e	992	1115	68.26895	902	1155	95.44997	992	1117	68.26895	905	1156	95.44997		96.8			99.7
Prior MRR2e	775	890	68.26895	708	975	95.44997	775	939	68.26895	709	976	95.44997		98.8			99.7
Prior MRR3e	604	647	68.26895	575	658	95.44997	605	647	68.26895	576	658	95.44997		100.6			99.7
Prior MRR4e	678	773	68.26895	660	869	95.44997	680	774	68.26895	662	873	95.44997		97.7			99.7
Prior MRR5e	1162	1251	68.26895	1050	1268	95.44997	1161	1222	68.26895	1049	1265	95.44997		100.5			99.8
Prior MRR6e	776	977	68.26895	775	992	95.44997	777	978	68.26895	775	992	95.44997		101.6			99.8
Prior MRR7e	1031	1152	68.26895	997	1162	95.44997	1034	1153	68.26895	997	1164	95.44997		100.3			99.7
Prior MRR8e	1163	1252	68.26895	1051	1268	95.44997	1162	1222	68.26895	1049	1265	95.44997		100.2			99.7
Prior MRR9e	412	534	68.26895	378	547	95.44997	413	536	68.26895	381	546	95.44997		100.5			99.7
Prior MRR10e	-104	7	68.26895	-168	56	95.44997	-101	9	68.26895	-166	57	95.44997		100.5			99.7
Last MRR1e R3 Tau							1172	1227	68.26895	1134	1270	95.44997					99.8
Boundary TS2 MRR1e Tau R3							1186	1291	68.26895	1099	1427	95.44997					98

2.56.1 – Dataset MRR1e; Exponential Prior/500-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MRR1e");
    Phase()
    {
      Date(Prior("MRR1e","MRR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2e","MRR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3e","MRR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4e","MRR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5e","MRR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6e","MRR6e.prior"))
      {
```

```

Outlier("Charcoal", 1);
};
Date(Prior("MRR7e","MRR7e.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR8e","MRR8e.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR9e","MRR9e.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("MRR10e","MRR10e.prior"))
{
  Outlier("Charcoal", 1);
};
Last("MRR1e R1 TmodC");
};
Boundary("TS2 MRR1e Tau mod Char R1");
};
};

```

2.56.2 – Dataset MRR1e; Run 1; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.5 Aoverall 104.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-21	1	68.26895	-141	1	95.44997					100

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997										100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	1.4175	68.26895	4.34E-19	2.0601	95.44997		100		99.1
Sequence																
Tau_Boundary Model MRR1e							589	917	68.26895	273	1021	95.44997				96.2
Phase																
Prior MRR1e	902	1024	68.26895	893	1032	95.44997	907	1043	68.26895	894	1148	95.44997		102		99.5
Prior MRR2e	776	977	68.26895	775	992	95.44997	883	998	68.26895	776	1088	95.44997		101.9		99.4
Prior MRR3e	1047	1203	68.26895	1039	1215	95.44997	1052	1173	68.26895	1036	1234	95.44997		102.9		99.7
Prior MRR4e	1040	1156	68.26895	1027	1201	95.44997	1052	1158	68.26895	1029	1221	95.44997		102.7		99.7
Prior MRR5e	680	820	68.26895	668	877	95.44997	690	872	68.26895	667	957	95.44997		96.8		99.4
Prior MRR6e	991	1112	68.26895	900	1153	95.44997	994	1125	68.26895	904	1197	95.44997		100.6		99.5
Prior MRR7e	893	990	68.26895	775	1019	95.44997	900	998	68.26895	777	1121	95.44997		101		99.6
Prior MRR8e	1044	1174	68.26895	1036	1212	95.44997	1052	1165	68.26895	1034	1229	95.44997		104.4		99.7
Prior MRR9e	707	878	68.26895	680	889	95.44997	717	894	68.26895	681	1008	95.44997		100.8		99.4
Prior MRR10e	-1051	-931	68.26895	-1119	-913	95.44997	-1045	-915	68.26895	-1152	-768	95.44997		101.2		99.1
Last MRR1e R1 TmodC							1102	1206	68.26895	1058	1271	95.44997				99.7
Boundary TS2 MRR1e Tau mod Char R1							1120	1264	68.26895	1074	1382	95.44997				97.8

2.56.3 – Dataset MRR1e; Run 2; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.6 Aoverall 101.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-125	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	1.458	68.26895	4.34E-19	2.0439	95.44997		100			99
Sequence																	
Tau_Boundary Model MRR1e							592	955	68.26895	224	1064	95.44997					96.7
Phase																	
Prior MRR1e	774	879	68.26895	680	891	95.44997	720	897	68.26895	683	993	95.44997		100.8			99.2
Prior MRR2e	-42	61	68.26895	-90	119	95.44997	-33	81	68.26895	-91	209	95.44997		99.1			99.1
Prior MRR3e	1033	1152	68.26895	997	1165	95.44997	1039	1167	68.26895	1023	1242	95.44997		100.3			99.5
Prior MRR4e	1046	1200	68.26895	1038	1213	95.44997	1058	1210	68.26895	1037	1249	95.44997		99.9			99.6
Prior MRR5e	1168	1255	68.26895	1053	1270	95.44997	1172	1250	68.26895	1053	1320	95.44997		100.3			99.5
Prior MRR6e	1164	1252	68.26895	1052	1268	95.44997	1168	1247	68.26895	1053	1311	95.44997		101.8			99.4
Prior MRR7e	1034	1152	68.26895	997	1166	95.44997	1040	1167	68.26895	1023	1241	95.44997		100.3			99.6
Prior MRR8e	776	977	68.26895	775	992	95.44997	886	996	68.26895	776	1079	95.44997		101.7			99.3
Prior MRR9e	129	214	68.26895	79	245	95.44997	139	239	68.26895	80	355	95.44997		100.2			99.3
Prior MRR10e	256	402	68.26895	247	411	95.44997	264	415	68.26895	243	510	95.44997		100			99.1

Last MRR1e R2 TmodC							1192	1263	68.26895	1165	1329	95.44997					99.6
Boundary TS2 MRR1e Tau mod Char R2							1207	1327	68.26895	1175	1466	95.44997					98

2.56.4 – Dataset MRR1e; Run 3; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 99				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-42	1	68.26895	-318	1	95.44997					99.4
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	2.3193	68.26895	4.34E-19	2.4327	95.44997		100			76.5
Sequence																	
Tau_Boundary Model MRR1e							611	994	68.26895	289	1172	95.44997					93.6
Phase																	
Prior MRR1e	992	1115	68.26895	902	1155	95.44997	996	1154	68.26895	909	1299	95.44997		98.2			97.4
Prior MRR2e	775	890	68.26895	708	975	95.44997	781	963	68.26895	710	1213	95.44997		98.9			97.3
Prior MRR3e	604	647	68.26895	575	658	95.44997	592	685	68.26895	560	1120	95.44997		100.8			96.7
Prior MRR4e	678	773	68.26895	660	869	95.44997	679	827	68.26895	661	1156	95.44997		97.7			97.4
Prior MRR5e	1162	1251	68.26895	1050	1268	95.44997	1165	1261	68.26895	1052	1334	95.44997		99.2			97.9

Prior MRR6e	776	977	68.26895	775	992	95.44997	840	1015	68.26895	776	1219	95.44997		101.6			97
Prior MRR7e	1031	1152	68.26895	997	1162	95.44997	1036	1174	68.26895	1000	1296	95.44997		100.4			97.6
Prior MRR8e	1163	1252	68.26895	1051	1268	95.44997	1166	1261	68.26895	1052	1340	95.44997		98.9			97.9
Prior MRR9e	412	534	68.26895	378	547	95.44997	414	557	68.26895	268	1050	95.44997		100.5			97.3
Prior MRR10e	-104	7	68.26895	-168	56	95.44997	-110	60	68.26895	-176	582	95.44998		100.6			96.9
Last MRR1e R3 TmodC							1178	1269	68.26895	1076	1417	95.44997					97
Boundary TS2 MRR1e Tau mod Char R3							1198	1341	68.26895	1150	1512	95.44997					96.1

2.57.1 – Dataset MRR1e; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRR1e");
    Phase()
    {
      Date(Prior("MRR1e","MRR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR2e","MRR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR3e","MRR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR4e","MRR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR5e","MRR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRR6e","MRR6e.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("MRR7e","MRR7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR8e","MRR8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR9e","MRR9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("MRR10e","MRR10e.prior"))
{
    Outlier("Charcoal", 1);
};
Last("MRR1e R1 Char");
};
Boundary("TS2 MRR1e Char R1");
};
};

```

2.57.2 – Dataset MRR1e; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.4 Aoverall 101.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-26	1	68.26895	-180	1	95.44997					100

Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	1.527	68.26895	3.60E-17	2.202	95.44997		100			98.1
Sequence																	
Boundary Model MRR1e							-1324	-916	68.26895	-1792	-502	95.44997					95.6
Phase																	
Prior MRR1e	902	1024	68.26895	893	1032	95.44997	905	1044	68.26895	892	1166	95.44997		99.8			99.3
Prior MRR2e	776	977	68.26895	775	992	95.44997	847	1001	68.26895	776	1095	95.44997		100			99.4
Prior MRR3e	1047	1203	68.26895	1039	1215	95.44997	1054	1208	68.26895	1035	1285	95.44997		100.9			99.6
Prior MRR4e	1040	1156	68.26895	1027	1201	95.44997	1050	1166	68.26895	1027	1273	95.44997		100.9			99.7
Prior MRR5e	680	820	68.26895	668	877	95.44997	688	832	68.26895	667	956	95.44997		100			99.5
Prior MRR6e	991	1112	68.26895	900	1153	95.44997	993	1127	68.26895	901	1228	95.44997		100.4			99.5
Prior MRR7e	893	990	68.26895	775	1019	95.44997	897	999	68.26895	777	1130	95.44997		99.9			99.4
Prior MRR8e	1044	1174	68.26895	1036	1212	95.44997	1054	1179	68.26895	1033	1285	95.44997		101.3			99.7
Prior MRR9e	707	878	68.26895	680	889	95.44997	711	892	68.26895	679	1008	95.44997		99.9			99.4
Prior MRR10e	-1051	-931	68.26895	-1119	-913	95.44997	-1047	-903	68.26895	-1123	-560	95.44997		101.7			98.9
Last MRR1e R1 Char							1120	1228	68.26895	1068	1367	95.44997					99.7
Boundary TS2 MRR1e Char R1							1153	1499	68.26895	1091	1977	95.44997					97

2.57.3 – Dataset MRR1e; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.1 Aoverall 99.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-48	1	68.26895	-516	1	95.44997					98.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.586	68.26895	3.60E-17	2.721	95.44997		100			35.3
Sequence																	
Boundary Model MRR1e							-280	151	68.26895	-658	1329	95.44997					61.3
Phase																	
Prior MRR1e	774	879	68.26895	680	891	95.44997	707	909	68.26895	680	1340	95.44997		100			81.9
Prior MRR2e	-42	61	68.26895	-90	119	95.44997	-41	136	68.26895	-97	1417	95.44997		96.1			81.1
Prior MRR3e	1033	1152	68.26895	997	1165	95.44997	1036	1170	68.26895	999	1373	95.44997		100.1			85.5
Prior MRR4e	1046	1200	68.26895	1038	1213	95.44997	1055	1216	68.26895	1033	1367	95.44997		100.3			85.4
Prior MRR5e	1168	1255	68.26895	1053	1270	95.44997	1171	1272	68.26895	1052	1431	95.44997		99.8			90.1
Prior MRR6e	1164	1252	68.26895	1052	1268	95.44997	1167	1271	68.26895	1052	1414	95.44997		100.3			88.9
Prior MRR7e	1034	1152	68.26895	997	1166	95.44997	1036	1170	68.26895	1000	1363	95.44997		100.1			86
Prior MRR8e	776	977	68.26895	775	992	95.44997	779	1014	68.26895	776	1330	95.44997		100			82.3
Prior MRR9e	129	214	68.26895	79	245	95.44997	122	270	68.26895	62	1418	95.44997		100.3			82.9
Prior MRR10e	256	402	68.26895	247	411	95.44997	258	420	68.26895	236	1402	95.44997		100.1			83
Last MRR1e R2 Char							1183	1291	68.26895	1162	1522	95.44997					88.9

Boundary TS2 MRR1e Char R2							1217	1487	68.26895	1184	1867	95.44997					91.4
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2.57.4 – Dataset MRR1e; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRR1e R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.8 Aoverall 99.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-51	1	68.26895	-291	1	95.44997					99.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.385	68.26895	3.60E-17	2.391	95.44997		100			90.6
Sequence																	
Boundary Model MRR1e							-292	596	68.26895	-454	...	95.44997					92.6
Phase																	
Prior MRR1e	992	1115	68.26895	902	1155	95.44997	995	1151	68.26895	909	1293	95.44997		100.8			98.9
Prior MRR2e	775	890	68.26895	708	975	95.44997	781	957	68.26895	709	1143	95.44997		100			99
Prior MRR3e	604	647	68.26895	575	658	95.44997	594	688	68.26895	566	901	95.44997		100			98.7
Prior MRR4e	678	773	68.26895	660	869	95.44997	682	823	68.26895	662	1019	95.44997		100			99
Prior MRR5e	1162	1251	68.26895	1050	1268	95.44997	1167	1269	68.26895	1053	1360	95.44997		99.4			99.1
Prior MRR6e	776	977	68.26895	775	992	95.44997	840	1013	68.26895	776	1173	95.44997		99.8			98.8
Prior MRR7e	1031	1152	68.26895	997	1162	95.44997	1036	1172	68.26895	1000	1309	95.44997		100			99

Prior MRR8e	1163	1252	68.26895	1051	1268	95.44997	1169	1269	68.26895	1053	1366	95.44997		99.3			99.2
Prior MRR9e	412	534	68.26895	378	547	95.44997	414	561	68.26895	365	778	95.44997		100.2			98.6
Prior MRR10e	-104	7	68.26895	-168	56	95.44997	-144	601	68.26895	-159	726	95.44998		99.3			97.1
Last MRR1e R3 Char							1183	1282	68.26895	1162	1403	95.44997					98.8
Boundary TS2 MRR1e Char R3							1218	1439	68.26895	1172	1730	95.44997					97.3

2.58.1 – Dataset MRRR1e; Exponential Prior/no Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model MRRR1e");
    Phase()
    {
      Date(Prior("MRRR1e", "MRRR1e.prior"));
      Date(Prior("MRRR2e", "MRRR2e.prior"));
      Date(Prior("MRRR3e", "MRRR3e.prior"));
      Date(Prior("MRRR4e", "MRRR4e.prior"));
      Date(Prior("MRRR5e", "MRRR5e.prior"));
      Last("MRRR1e R1 Tau");
    };
    Boundary("TS2 MRRR1e Tau R1");
  };
};
```

2.58.2 – Dataset MRRR1e; Run 1; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1e R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.1 Aoverall 97.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	

Tau_Boundary Model MRRR1e							-225	838	68.26895	-1441	1043	95.44997					96.6
Phase																	
Prior MRRR1e	-357	-198	68.26895	-379	-169	95.44997	-356	-179	68.26895	-380	-166	95.44997		99.4			99.7
Prior MRRR2e	610	755	68.26895	602	772	95.44998	610	756	68.26895	602	773	95.44997		99.3			99.7
Prior MRRR3e	79	204	68.26895	25	217	95.44997	81	204	68.26895	26	219	95.44997		100.3			99.7
Prior MRRR4e	775	973	68.26895	774	989	95.44997	775	974	68.26895	774	990	95.44997		100			99.7
Prior MRRR5e	1055	1223	68.26895	1047	1264	95.44997	1053	1220	68.26895	1044	1261	95.44997		94.6			99.7
Last MRRR1e R1 Tau							1053	1220	68.26895	1044	1261	95.44997					99.7
Boundary TS2 MRRR1e Tau R1							1077	1492	68.26895	1051	2098	95.44997					97

2.58.3 – Dataset MRRR1e; Run 2; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1e R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.5 Aoverall 98.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1e							41	919	68.26895	-1142	1100	95.44997					96.6
Phase																	
Prior MRRR1e	129	217	68.26895	80	303	95.44997	130	219	68.26895	81	304	95.44997		100.1			99.7

Prior MRRR2e	-356	-177	68.26895	-380	-158	95.44997	-354	-176	68.26895	-379	-125	95.44997		99			99.7
Prior MRRR3e	994	1123	68.26895	991	1157	95.44997	994	1146	68.26895	992	1157	95.44997		99.1			99.8
Prior MRRR4e	1049	1216	68.26895	1040	1220	95.44997	1049	1214	68.26895	1040	1219	95.44997		99.8			99.8
Prior MRRR5e	1053	1218	68.26895	1040	1225	95.44997	1053	1216	68.26895	1041	1223	95.44997		98.5			99.8
Last MRRR1e R2 Tau							1157	1219	68.26895	1062	1226	95.44997					99.9
Boundary TS2 MRRR1e Tau R2							1150	1451	68.26895	1069	1982	95.44997					97.4

2.58.4 – Dataset MRRR1e; Run 3; Exponential Prior/no Outlier Model; Table of Distributions

Name: TS2 MRRR1e R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.3 Aoverall 100.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model MRRR1e							464	968	68.26895	-274	1091	95.44997					95.8
Phase																	
Prior MRRR1e	1031	1152	68.26895	997	1162	95.44997	1028	1148	68.26895	997	1160	95.44997		100.4			99.4
Prior MRRR2e	708	878	68.26895	680	889	95.44997	774	880	68.26895	681	891	95.44997		100.8			99.4

Prior MRRR3e	1035	1153	68.26895	1022	1174	95.44997	1031	1145	68.26895	1022	1163	95.44997		100.7			99.5
Prior MRRR4e	263	413	68.26895	250	430	95.44997	266	414	68.26895	251	526	95.44997		100.5			99.5
Prior MRRR5e	675	773	68.26895	659	825	95.44997	677	774	68.26895	660	869	95.44997		98			99.5
Last MRRR1e R3 Tau							1085	1155	68.26895	1033	1165	95.44997					99.5
Boundary TS2 MRRR1e Tau R3							1085	1275	68.26895	1038	1601	95.44997					96.2

2.59.1 – Dataset MRRR1e; Exponential Prior/500-Year Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.7),"t");
  Sequence()
  {
    Tau_Boundary("Model MRRR1e");
    Phase()
    {
      Date(Prior("MRRR1e","MRRR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2e","MRRR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3e","MRRR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4e","MRRR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5e","MRRR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1e R1 TmodC");
    };
  };
};
```

```
Boundary("TS2 MRRR1e Tau mod Char R1");
};
};
```

2.59.2 – Dataset MRRR1e; Run 1; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R1 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.4 Aoverall 97.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-39	1	68.26895	-287	1	95.44997					99.9
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	0.0324	2.1708	68.26895	4.34E-19	2.4219	95.44997		100			97.3
Sequence																	
Tau_Boundary Model MRRR1e							-150	900	68.26895	-1359	1109	95.44997					96.8
Phase																	
Prior MRRR1e	-357	-198	68.26895	-379	-169	95.44997	-348	-167	68.26895	-384	108	95.44997		99.4			98.5
Prior MRRR2e	610	755	68.26895	602	772	95.44998	612	775	68.26895	599	1001	95.44997		99.4			98.8
Prior MRRR3e	79	204	68.26895	25	217	95.44997	81	225	68.26895	20	454	95.44997		100.2			98.8
Prior MRRR4e	775	973	68.26895	774	989	95.44997	782	992	68.26895	775	1194	95.44997		100.1			99
Prior MRRR5e	1055	1223	68.26895	1047	1264	95.44997	1057	1258	68.26895	1047	1351	95.44997		94.6			99.4
Last MRRR1e R1 TmodC							1056	1260	68.26895	1045	1369	95.44997					99.3
Boundary TS2 MRRR1e Tau mod Char R1							1141	1552	68.26895	1057	2114	95.44997					97.1

2.59.3 – Dataset MRRR1e; Run 2; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.7 Aoverall 98.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-29	1	68.26895	-215	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	1.5903	68.26895	4.34E-19	2.3328	95.44997		100			99
Sequence																	
Tau_Boundary Model MRRR1e							55	960	68.26895	-1095	1186	95.44997					96.4
Phase																	
Prior MRRR1e	129	217	68.26895	80	303	95.44997	134	244	68.26895	82	418	95.44997		100.1			99.3
Prior MRRR2e	-356	-177	68.26895	-380	-158	95.44997	-347	-166	68.26895	-382	44	95.44997		98.9			98.8
Prior MRRR3e	994	1123	68.26895	991	1157	95.44997	999	1155	68.26895	983	1314	95.44997		99.3			99.2
Prior MRRR4e	1049	1216	68.26895	1040	1220	95.44997	1054	1224	68.26895	1036	1337	95.44997		99.8			99.3
Prior MRRR5e	1053	1218	68.26895	1040	1225	95.44997	1054	1238	68.26895	1039	1351	95.44997		98.6			99.4
Last MRRR1e R2 TmodC							1139	1257	68.26895	1057	1426	95.44997					99.4
Boundary TS2 MRRR1e Tau mod Char R2							1166	1513	68.26895	1083	2050	95.44997					96.4

2.59.4 – Dataset MRRR1e; Run 3; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R3 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.1 Aoverall 100.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-38	1	68.26895	-288	1	95.44997					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	2.1141	68.26895	4.34E-19	2.4381	95.44997		100			97.5
Sequence																	
Tau_Boundary Model MRRR1e							500	1043	68.26895	-224	1204	95.44997					97.1
Phase																	
Prior MRRR1e	1031	1152	68.26895	997	1162	95.44997	1036	1162	68.26895	998	1273	95.44997		100.2			99.4
Prior MRRR2e	708	878	68.26895	680	889	95.44997	711	905	68.26895	683	1114	95.44997		100.7			99.3
Prior MRRR3e	1035	1153	68.26895	1022	1174	95.44997	1042	1161	68.26895	1022	1285	95.44997		100.6			99.5
Prior MRRR4e	263	413	68.26895	250	430	95.44997	263	449	68.26895	250	769	95.44997		100.5			98.9
Prior MRRR5e	675	773	68.26895	659	825	95.44997	676	821	68.26895	660	1108	95.44997		98.1			99.2
Last MRRR1e R3 TmodC							1078	1187	68.26895	1033	1322	95.44997					99.5
Boundary TS2 MRRR1e Tau mod Char R3							1101	1327	68.26895	1046	1657	95.44997					97

2.60.1 – Dataset MRRR1e; Uniform Prior/default Charcoal Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model MRRR1e");
    Phase()
    {
      Date(Prior("MRRR1e","MRRR1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR2e","MRRR2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR3e","MRRR3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR4e","MRRR4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("MRRR5e","MRRR5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Last("MRRR1e R1 Char");
    };
  };
};
```

```

Boundary("TS2 MRRR1e Char R1");
};
};

```

2.60.2 – Dataset MRRR1e; Run 1; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.6 Aoverall 97.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-73	1	68.26895	-584	1	95.44997					99.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.706	68.26895	3.60E-17	2.712	95.44997		100			87.4
Sequence																	
Boundary Model MRRR1e							-1023	-60	68.26895	-2124	...	95.44997					94.3
Phase																	
Prior MRRR1e	-357	-198	68.26895	-379	-169	95.44997	-357	-118	68.26895	-384	850	95.44997		98.2			97.8
Prior MRRR2e	610	755	68.26895	602	772	95.44998	612	777	68.26895	600	1121	95.44997		99.9			98.5
Prior MRRR3e	79	204	68.26895	25	217	95.44997	63	252	68.26895	11	851	95.44997		100.1			98.3
Prior MRRR4e	775	973	68.26895	774	989	95.44997	779	1002	68.26895	775	1306	95.44997		99.9			98.6
Prior MRRR5e	1055	1223	68.26895	1047	1264	95.44997	1056	1279	68.26895	1043	1474	95.44997		96.1			98.9
Last MRRR1e R1 Char							1055	1282	68.26895	1043	1501	95.44997					98.8

Boundary TS2 MRRR1e Char R1							1165	1789	68.26895	1072	3007	95.44998					97.9
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2.60.3 – Dataset MRRR1e; Run 2; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.5 Aoverall 98.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-126	1	68.26895	-1589	1	95.44997					97.6
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											98.2
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.051	2.925	68.26895	3.60E-17	2.931	95.44997		100			61.5
Sequence																	
Boundary Model MRRR1e							-1002	1282	68.26895	-2111	...	95.44997					60.5
Phase																	
Prior MRRR1e	129	217	68.26895	80	303	95.44997	89	1284	68.26895	68	1462	95.44997		100.1			81.1
Prior MRRR2e	-356	-177	68.26895	-380	-158	95.44997	-362	1289	68.26895	-384	1473	95.44997		97.9			77.2
Prior MRRR3e	994	1123	68.26895	991	1157	95.44997	997	1197	68.26895	990	1469	95.44997		100.3			87.4
Prior MRRR4e	1049	1216	68.26895	1040	1220	95.44997	1054	1262	68.26895	1036	1496	95.44997		99.6			91.8
Prior MRRR5e	1053	1218	68.26895	1040	1225	95.44997	1055	1284	68.26895	1039	1515	95.44997		98.5			92.7

Last MRRR1e R2 Char							1132	1343	68.26895	1060	1647	95.44997					91.6
Boundary TS2 MRRR1e Char R2							1180	1803	68.26895	1126	2987	95.44997					94.5

2.60.4 – Dataset MRRR1e; Run 3; Uniform Prior/default Charcoal Outlier Model; Table of Distributions

Name: TS2 MRRR1e R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.8 Aoverall 99.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-87	1	68.26895	-541	1	95.44997					99.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.9
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	0.102	2.631	68.26895	3.60E-17	2.637	95.44997		100			92.5
Sequence																	
Boundary Model MRRR1e							24	...	68.26895	-460	...	95.44997					92
Phase																	
Prior MRRR1e	1031	1152	68.26895	997	1162	95.44997	1037	1169	68.26895	998	1334	95.44997		99.7			99.2
Prior MRRR2e	708	878	68.26895	680	889	95.44997	706	954	68.26895	681	1214	95.44997		100.1			98.7
Prior MRRR3e	1035	1153	68.26895	1022	1174	95.44997	1042	1172	68.26895	1022	1347	95.44997		100.1			99.2
Prior MRRR4e	263	413	68.26895	250	430	95.44997	260	1096	68.26895	257	1180	95.44997		100.2			97.4
Prior MRRR5e	675	773	68.26895	659	825	95.44997	670	874	68.26895	662	1188	95.44997		99.4			98.6

Last MRRR1e R3 Char							1079	1218	68.26895	1035	1417	95.44997					99
Boundary TS2 MRRR1e Char R3							1111	1461	68.26895	1052	2023	95.44997					97.9