

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 1 (ESM1) - Theoretical Study 1 (TS1)

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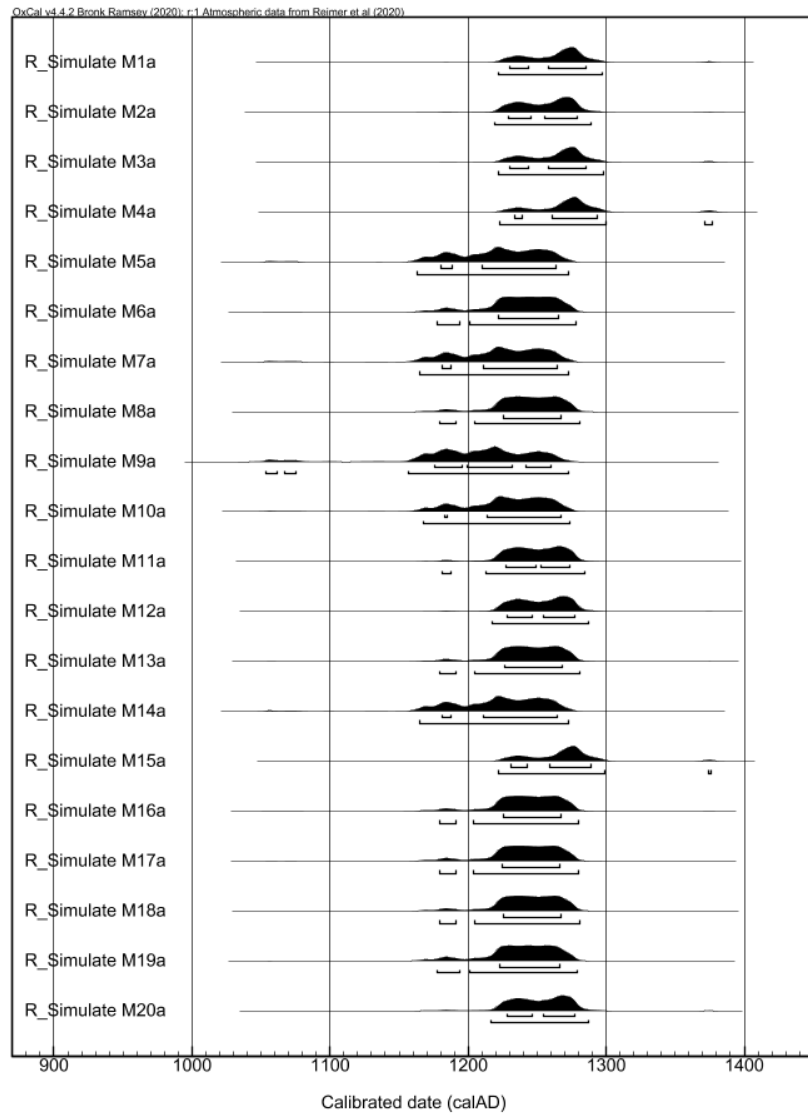
1.1.1 - Dataset M1a (20 dates; 700 BP $\pm$ 35; ≤ 10 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("M1a", 700-10*ln(rand()), 35);  
R_Simulate("M2a", 700-10*ln(rand()), 35);  
R_Simulate("M3a", 700-10*ln(rand()), 35);  
R_Simulate("M4a", 700-10*ln(rand()), 35);  
R_Simulate("M5a", 700-10*ln(rand()), 35);  
R_Simulate("M6a", 700-10*ln(rand()), 35);  
R_Simulate("M7a", 700-10*ln(rand()), 35);  
R_Simulate("M8a", 700-10*ln(rand()), 35);  
R_Simulate("M9a", 700-10*ln(rand()), 35);  
R_Simulate("M10a", 700-10*ln(rand()), 35);  
R_Simulate("M11a", 700-10*ln(rand()), 35);  
R_Simulate("M12a", 700-10*ln(rand()), 35);  
R_Simulate("M13a", 700-10*ln(rand()), 35);  
R_Simulate("M14a", 700-10*ln(rand()), 35);  
R_Simulate("M15a", 700-10*ln(rand()), 35);  
R_Simulate("M16a", 700-10*ln(rand()), 35);  
R_Simulate("M17a", 700-10*ln(rand()), 35);  
R_Simulate("M18a", 700-10*ln(rand()), 35);  
R_Simulate("M19a", 700-10*ln(rand()), 35);  
R_Simulate("M20a", 700-10*ln(rand()), 35);
```


1.1.2 - Dataset M1a; Run 1; Simulated Dates; Table of Distributions

Name: TS1 M1a R1	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1a	1230	1285	68.26895	1221	1297	95.44997
R_Simulate M2a	1229	1279	68.26895	1219	1289	95.44997
R_Simulate M3a	1230	1285	68.26895	1221	1297	95.44997
R_Simulate M4a	1233	1293	68.26895	1223	1377	95.44997
R_Simulate M5a	1180	1264	68.26895	1163	1272	95.44997
R_Simulate M6a	1222	1265	68.26895	1177	1278	95.44997
R_Simulate M7a	1180	1264	68.26895	1164	1272	95.44997
R_Simulate M8a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M9a	1175	1259	68.26895	1053	1272	95.44997
R_Simulate M10a	1183	1267	68.26895	1167	1273	95.44997
R_Simulate M11a	1227	1273	68.26895	1181	1284	95.44997
R_Simulate M12a	1228	1277	68.26895	1217	1287	95.44997
R_Simulate M13a	1226	1268	68.26895	1179	1281	95.44997
R_Simulate M14a	1180	1264	68.26895	1164	1272	95.44997
R_Simulate M15a	1231	1289	68.26895	1222	1375	95.44997
R_Simulate M16a	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M17a	1224	1266	68.26895	1179	1279	95.44997
R_Simulate M18a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M19a	1222	1266	68.26895	1177	1278	95.44997
R_Simulate M20a	1228	1277	68.26895	1216	1287	95.44997

1.1.3 - Dataset M1a; Run 1; Simulated Dates; Multiple Plot



1.1.4 - Dataset M1a; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1a R1")
  {
    Date(Prior("latest","M4a.prior"));
    Date(Prior("earliest","M9a.prior"));
    Difference("TS1 M1a R1 Range", "latest", "earliest");
  };
};
```

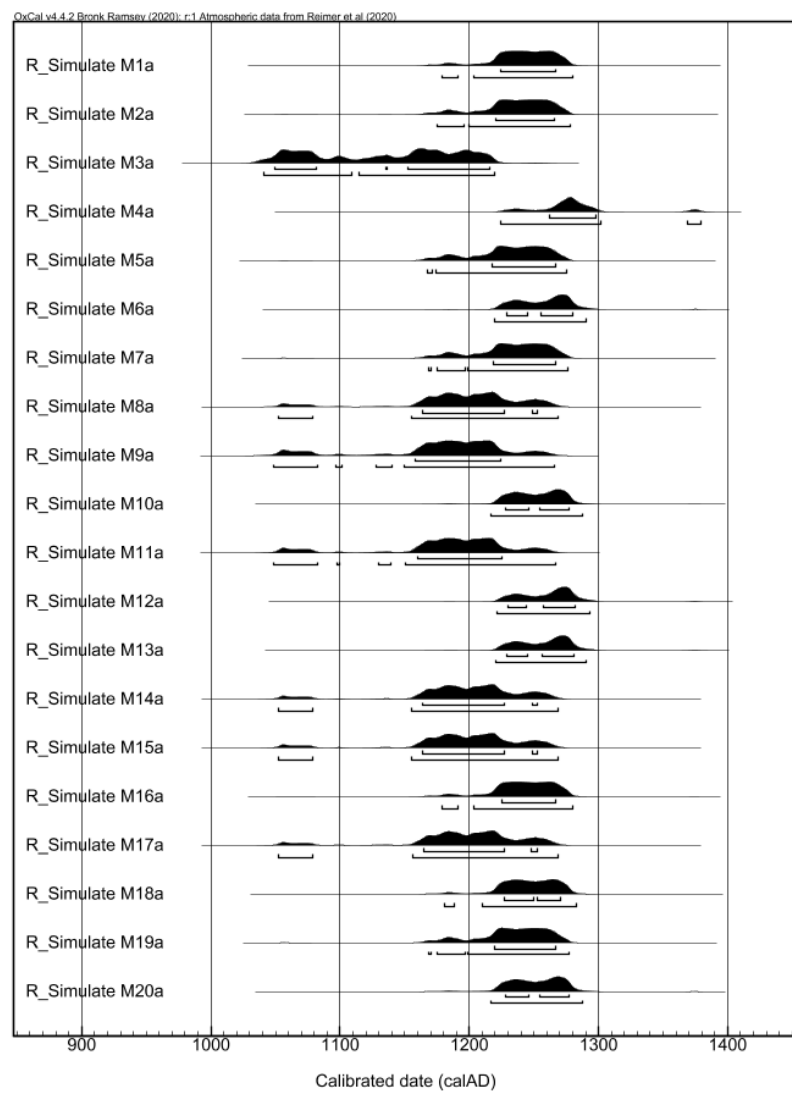
1.1.5 – Dataset M1a; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1a R1						
Prior latest	1233	1293	68.26895	1223	1377	95.44997
Prior earliest	1175	1259	68.26895	1053	1272	95.44997
Difference TS1 M1a R1 Range	14	99	68.26895	-31	220	95.44997

1.1.6 - Dataset M1a; Run 2; Simulated Dates; Table of Distributions

Name: TS1 R2 M1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1a	1224	1266	68.26895	1179	1279	95.44997
R_Simulate M2a	1220	1266	68.26895	1175	1278	95.44997
R_Simulate M3a	1049	1215	68.26895	1040	1219	95.44997
R_Simulate M4a	1262	1297	68.26895	1224	1379	95.44997
R_Simulate M5a	1217	1267	68.26895	1168	1275	95.44997
R_Simulate M6a	1229	1280	68.26895	1220	1290	95.44997
R_Simulate M7a	1218	1266	68.26895	1168	1276	95.44997
R_Simulate M8a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M9a	1158	1224	68.26895	1048	1265	95.44997
R_Simulate M10a	1228	1277	68.26895	1216	1287	95.44997
R_Simulate M11a	1159	1225	68.26895	1048	1267	95.44997
R_Simulate M12a	1230	1282	68.26895	1221	1293	95.44997
R_Simulate M13a	1229	1280	68.26895	1220	1290	95.44997
R_Simulate M14a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M15a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M16a	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M17a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M18a	1227	1270	68.26895	1180	1282	95.44997
R_Simulate M19a	1219	1266	68.26895	1168	1276	95.44997
R_Simulate M20a	1228	1277	68.26895	1216	1287	95.44997

1.1.7 - Dataset M1a; Run 2; Simulated Dates; Multiple Plot



1.1.8 - Dataset M1a; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1a R2")
  {
    Date(Prior("latest","M4a.prior"));
    Date(Prior("earliest","M3a.prior"));
    Difference("TS1 M1a R2 Range", "latest", "earliest");
  };
};
```

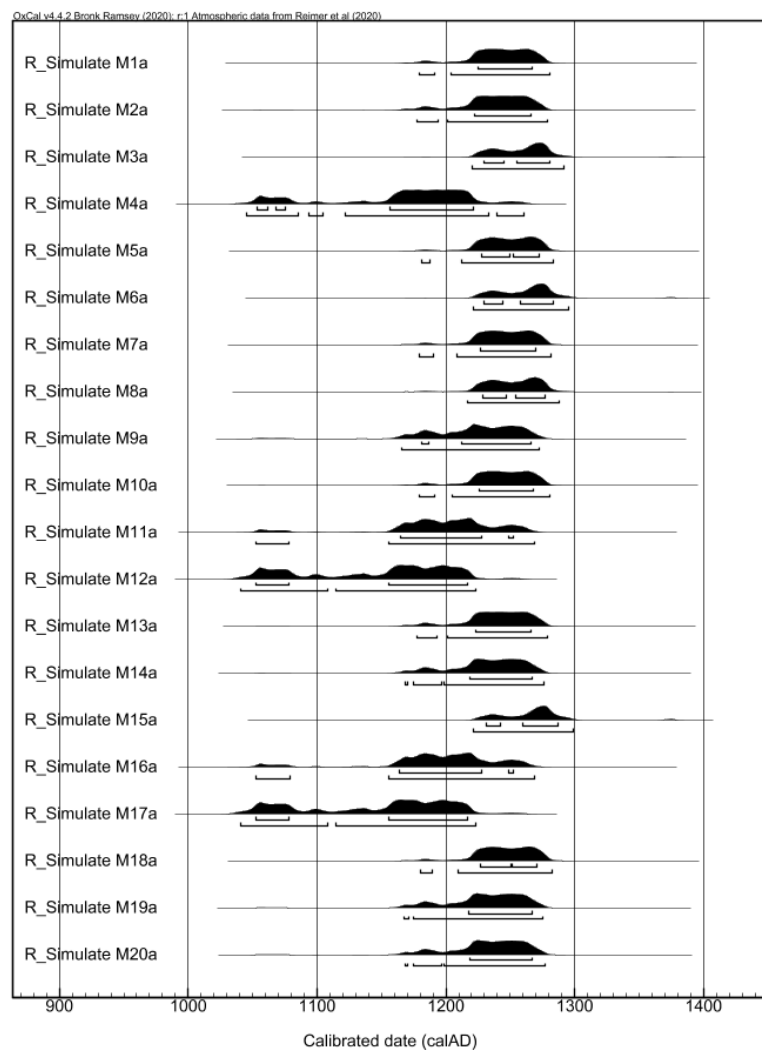
1.1.9 – Dataset M1a; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1a R2						
Prior latest	1262	1297	68.26895	1224	1379	95.44997
Prior earliest	1049	1215	68.26895	1040	1219	95.44997
Difference TS1 M1a R2 Range	62	228	68.26895	25	250	95.44997

1.1.10 - Dataset M1a; Run 3; Simulated Dates; Table of Distributions

Name: TS1 R3 M1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1a	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M2a	1222	1265	68.26895	1177	1278	95.44997
R_Simulate M3a	1229	1281	68.26895	1220	1291	95.44997
R_Simulate M4a	1053	1221	68.26895	1045	1260	95.44997
R_Simulate M5a	1227	1272	68.26895	1181	1283	95.44997
R_Simulate M6a	1230	1283	68.26895	1221	1294	95.44997
R_Simulate M7a	1226	1269	68.26895	1179	1281	95.44997
R_Simulate M8a	1228	1277	68.26895	1216	1287	95.44997
R_Simulate M9a	1181	1265	68.26895	1165	1272	95.44997
R_Simulate M10a	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M11a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M12a	1052	1216	68.26895	1040	1222	95.44997
R_Simulate M13a	1223	1266	68.26895	1178	1279	95.44997
R_Simulate M14a	1218	1266	68.26895	1168	1276	95.44997
R_Simulate M15a	1231	1287	68.26895	1221	1298	95.44997
R_Simulate M16a	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M17a	1052	1216	68.26895	1040	1222	95.44997
R_Simulate M18a	1226	1270	68.26895	1180	1282	95.44997
R_Simulate M19a	1217	1267	68.26895	1168	1275	95.44997
R_Simulate M20a	1218	1266	68.26895	1168	1276	95.44997

1.1.11 - Dataset M1a; Run 3; Simulated Dates; Multiple Plot



1.1.12 - Dataset M1a; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1a R3")
  {
    Date(Prior("latest","M15a.prior"));
    Date(Prior("earliest","M12a.prior"));
    Difference("TS1 M1a R3 Range", "latest", "earliest");
  };
};
```

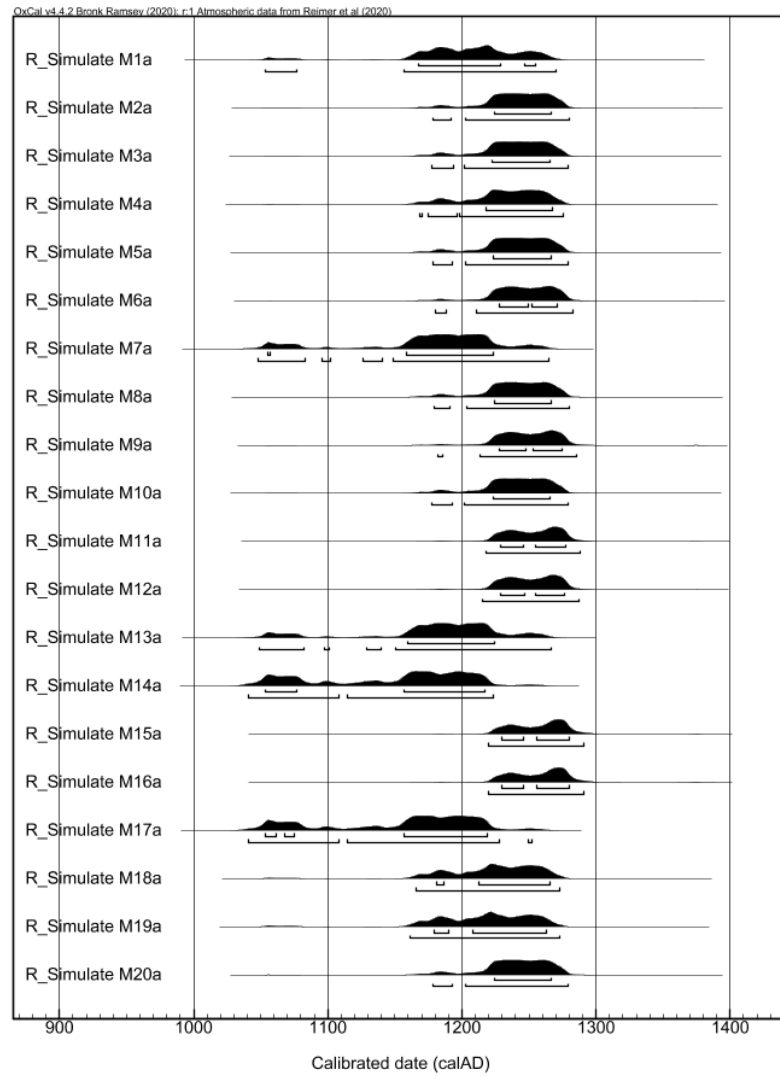
1.1.13 – Dataset M1a; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1a R3						
Prior latest	1231	1287	68.26895	1221	1298	95.44997
Prior earliest	1052	1216	68.26895	1040	1222	95.44997
Difference TS1 M1a R3 Range	46	220	68.26895	19	234	95.44997

1.1.14 - Dataset M1a; Run 4; Simulated Dates; Table of Distributions

Name: TS1 R4 M1a	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1a	1167	1254	68.26895	1053	1270	95.44997
R_Simulate M2a	1224	1266	68.26895	1178	1279	95.44997
R_Simulate M3a	1222	1266	68.26895	1177	1279	95.44997
R_Simulate M4a	1217	1267	68.26895	1168	1275	95.44997
R_Simulate M5a	1223	1266	68.26895	1178	1279	95.44997
R_Simulate M6a	1227	1270	68.26895	1180	1282	95.44997
R_Simulate M7a	1055	1223	68.26895	1047	1264	95.44997
R_Simulate M8a	1224	1266	68.26895	1179	1279	95.44997
R_Simulate M9a	1228	1274	68.26895	1182	1285	95.44997
R_Simulate M10a	1223	1266	68.26895	1178	1279	95.44997
R_Simulate M11a	1229	1277	68.26895	1217	1287	95.44997
R_Simulate M12a	1228	1276	68.26895	1215	1287	95.44997
R_Simulate M13a	1159	1224	68.26895	1048	1266	95.44997
R_Simulate M14a	1053	1217	68.26895	1040	1223	95.44997
R_Simulate M15a	1229	1280	68.26895	1220	1290	95.44997
R_Simulate M16a	1229	1280	68.26895	1220	1290	95.44997
R_Simulate M17a	1053	1219	68.26895	1040	1252	95.44997
R_Simulate M18a	1181	1265	68.26895	1165	1272	95.44997
R_Simulate M19a	1179	1262	68.26895	1161	1272	95.44997
R_Simulate M20a	1224	1266	68.26895	1178	1279	95.44997

1.1.15 - Dataset M1a; Run 4; Simulated Dates; Multiple Plot



1.1.16 - Dataset M1a; Run 4; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1a R4")
  {
    Date(Prior("latest","M16a.prior"));
    Date(Prior("earliest","M14a.prior"));
    Difference("TS1 M1a R4 Range", "latest", "earliest");
  };
};
```

1.1.17 – Dataset M1a; Run 4; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1a R4						
Prior latest	1229	1280	68.26895	1220	1290	95.44997
Prior earliest	1053	1217	68.26895	1040	1223	95.44997
Difference TS1 M1a R4 Range	33	205	68.26895	14	225	95.44997

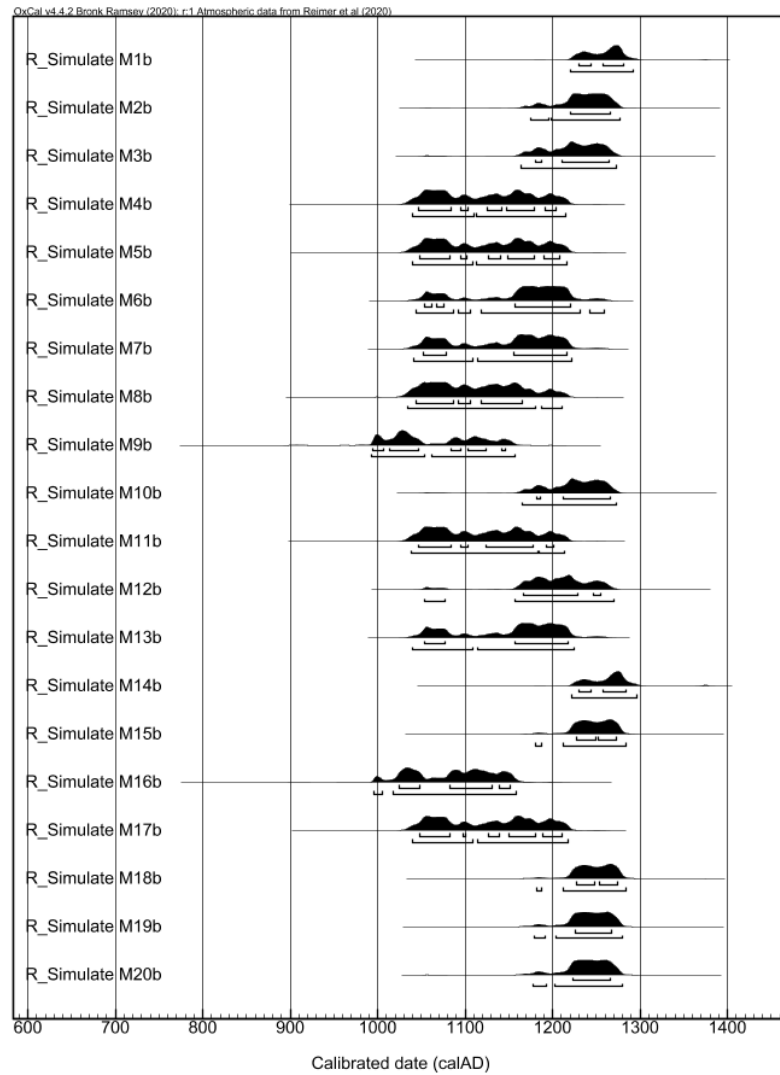
1.2.1 - Dataset M1b (20 dates; 700 BP $\pm$ 35; $\leq$ 50 years IA; IntCal.20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("M1b", 700-50*ln(rand()), 35);  
R_Simulate("M2b", 700-50*ln(rand()), 35);  
R_Simulate("M3b", 700-50*ln(rand()), 35);  
R_Simulate("M4b", 700-50*ln(rand()), 35);  
R_Simulate("M5b", 700-50*ln(rand()), 35);  
R_Simulate("M6b", 700-50*ln(rand()), 35);  
R_Simulate("M7b", 700-50*ln(rand()), 35);  
R_Simulate("M8b", 700-50*ln(rand()), 35);  
R_Simulate("M9b", 700-50*ln(rand()), 35);  
R_Simulate("M10b", 700-50*ln(rand()), 35);  
R_Simulate("M11b", 700-50*ln(rand()), 35);  
R_Simulate("M12b", 700-50*ln(rand()), 35);  
R_Simulate("M13b", 700-50*ln(rand()), 35);  
R_Simulate("M14b", 700-50*ln(rand()), 35);  
R_Simulate("M15b", 700-50*ln(rand()), 35);  
R_Simulate("M16b", 700-50*ln(rand()), 35);  
R_Simulate("M17b", 700-50*ln(rand()), 35);  
R_Simulate("M18b", 700-50*ln(rand()), 35);  
R_Simulate("M19b", 700-50*ln(rand()), 35);  
R_Simulate("M20b", 700-50*ln(rand()), 35);
```

1.2.2 - Dataset M1b; Run 1; Simulated Dates; Table of Distributions

Name: TS1 R1 M1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1b	1229	1281	68.26895	1220	1292	95.44997
R_Simulate M2b	1220	1266	68.26895	1175	1277	95.44997
R_Simulate M3b	1180	1264	68.26895	1164	1272	95.44997
R_Simulate M4b	1047	1203	68.26895	1039	1215	95.44997
R_Simulate M5b	1047	1208	68.26895	1040	1216	95.44997
R_Simulate M6b	1053	1220	68.26895	1044	1259	95.44997
R_Simulate M7b	1052	1216	68.26895	1040	1222	95.44997
R_Simulate M8b	1044	1165	68.26895	1034	1211	95.44997
R_Simulate M9b	995	1146	68.26895	992	1157	95.44997
R_Simulate M10b	1181	1266	68.26895	1166	1272	95.44997
R_Simulate M11b	1046	1201	68.26895	1038	1213	95.44997
R_Simulate M12b	1167	1254	68.26895	1053	1270	95.44997
R_Simulate M13b	1053	1218	68.26895	1040	1225	95.44997
R_Simulate M14b	1230	1284	68.26895	1221	1296	95.44997
R_Simulate M15b	1227	1272	68.26895	1181	1283	95.44997
R_Simulate M16b	1024	1151	68.26895	995	1158	95.44997
R_Simulate M17b	1048	1210	68.26895	1040	1217	95.44997
R_Simulate M18b	1227	1273	68.26895	1181	1284	95.44997
R_Simulate M19b	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M20b	1223	1266	68.26895	1178	1279	95.44997

1.2.3 - Dataset M1b; Run 1; Simulated Dates; Multiple Plot



1.2.4 - Dataset M1b; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1b R1")
  {
    Date(Prior("latest","M14b.prior"));
    Date(Prior("earliest","M9b.prior"));
    Difference("TS1 M1b R1 Range", "latest", "earliest");
  };
};
```

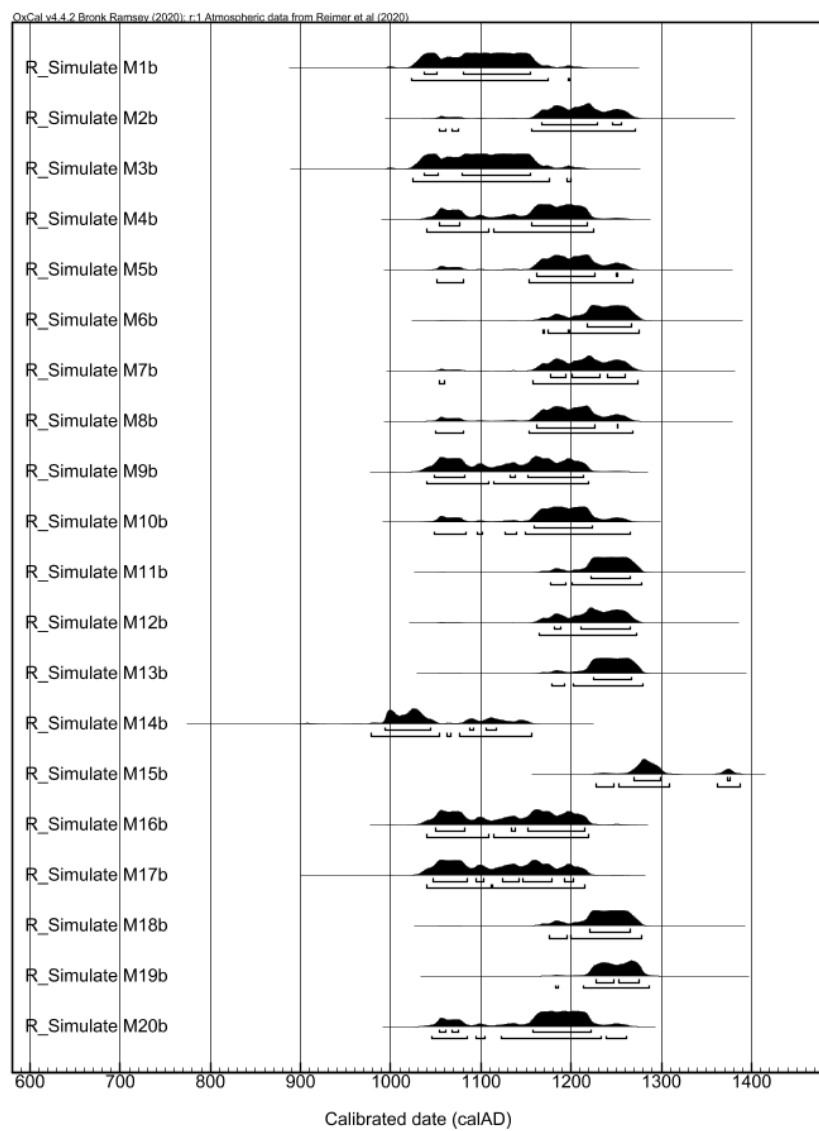
1.2.5 – Dataset M1b; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1b R1						
Prior latest	1230	1284	68.26895	1221	1296	95.44997
Prior earliest	995	1146	68.26895	992	1157	95.44997
Difference TS1 M1b R1 Range	125	266	68.26895	89	288	95.44997

1.2.6 - Dataset M1b; Run 2; Simulated Dates; Table of Distributions

Name: TS1 R2 M1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1b	1036	1154	68.26895	1023	1198	95.44997
R_Simulate M2b	1168	1255	68.26895	1053	1270	95.44997
R_Simulate M3b	1037	1155	68.26895	1024	1199	95.44997
R_Simulate M4b	1053	1218	68.26895	1040	1225	95.44997
R_Simulate M5b	1162	1251	68.26895	1050	1268	95.44997
R_Simulate M6b	1217	1267	68.26895	1168	1275	95.44997
R_Simulate M7b	1177	1260	68.26895	1054	1273	95.44997
R_Simulate M8b	1162	1251	68.26895	1050	1269	95.44997
R_Simulate M9b	1049	1214	68.26895	1040	1219	95.44997
R_Simulate M10b	1158	1224	68.26895	1048	1265	95.44997
R_Simulate M11b	1222	1265	68.26895	1177	1278	95.44997
R_Simulate M12b	1180	1264	68.26895	1164	1272	95.44997
R_Simulate M13b	1224	1266	68.26895	1178	1279	95.44997
R_Simulate M14b	993	1117	68.26895	977	1156	95.44997
R_Simulate M15b	1269	1376	68.26895	1228	1387	95.44997
R_Simulate M16b	1049	1214	68.26895	1040	1219	95.44997
R_Simulate M17b	1047	1202	68.26895	1039	1214	95.44997
R_Simulate M18b	1220	1266	68.26895	1175	1278	95.44997
R_Simulate M19b	1228	1275	68.26895	1182	1286	95.44997
R_Simulate M20b	1053	1221	68.26895	1045	1260	95.44997

1.2.7 - Dataset M1b; Run 2; Simulated Dates; Multiple Plot



1.2.8 - Dataset M1b; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1b R2")
  {
    Date(Prior("latest","M15b.prior"));
    Date(Prior("earliest","M14b.prior"));
    Difference("TS1 M1b R2 Range", "latest", "earliest");
  };
};
```

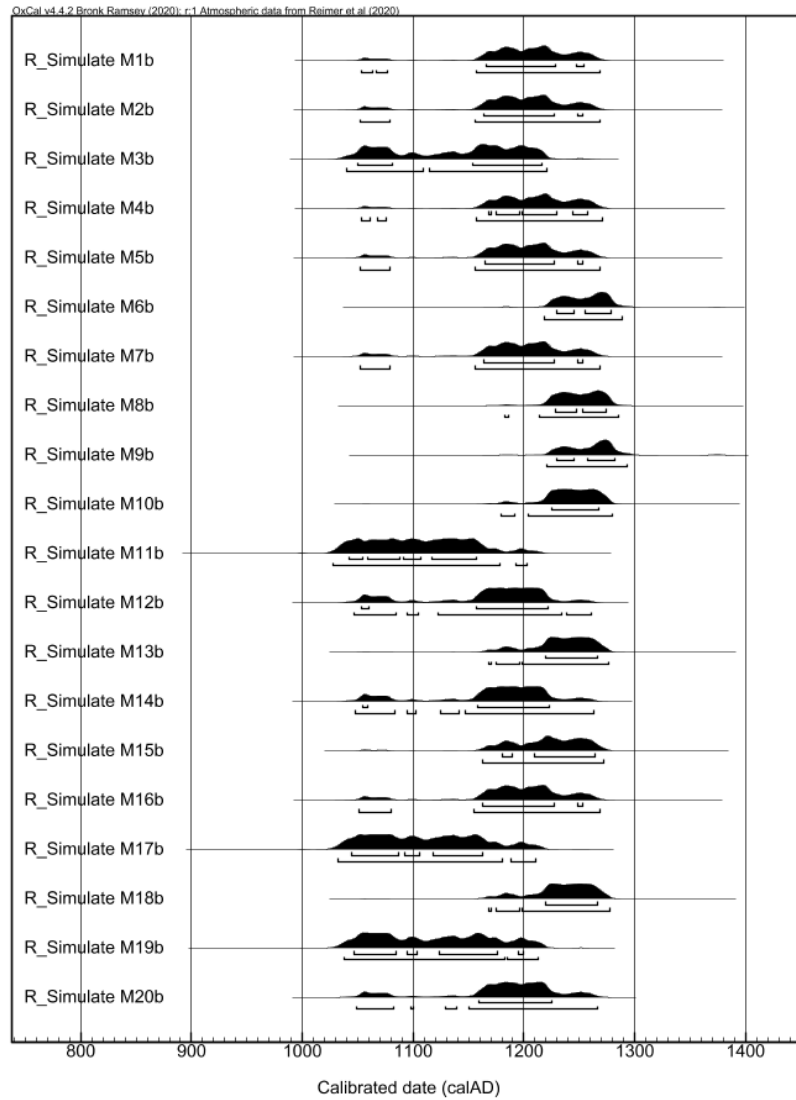
1.2.9 – Dataset M1b; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1b R2						
Prior latest	1269	1376	68.26895	1228	1387	95.44997
Prior earliest	993	1117	68.26895	977	1156	95.44997
Difference TS1 M1b R2 Range	154	299	68.26895	122	383	95.44997

1.2.10 - Dataset M1b; Run 3; Simulated Dates; Table of Distributions

Name: TS1 R3 M1b	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1b	1166	1253	68.26895	1053	1269	95.44997
R_Simulate M2b	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M3b	1050	1216	68.26895	1040	1220	95.44997
R_Simulate M4b	1168	1257	68.26895	1053	1271	95.44997
R_Simulate M5b	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M6b	1229	1278	68.26895	1218	1288	95.44997
R_Simulate M7b	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M8b	1228	1274	68.26895	1182	1285	95.44997
R_Simulate M9b	1229	1281	68.26895	1220	1292	95.44997
R_Simulate M10b	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M11b	1042	1157	68.26895	1028	1202	95.44997
R_Simulate M12b	1053	1221	68.26895	1046	1261	95.44997
R_Simulate M13b	1219	1266	68.26895	1168	1276	95.44997
R_Simulate M14b	1054	1222	68.26895	1047	1263	95.44997
R_Simulate M15b	1180	1263	68.26895	1162	1272	95.44997
R_Simulate M16b	1162	1252	68.26895	1051	1268	95.44997
R_Simulate M17b	1044	1162	68.26895	1032	1210	95.44997
R_Simulate M18b	1219	1266	68.26895	1168	1277	95.44997
R_Simulate M19b	1046	1199	68.26895	1037	1213	95.44997
R_Simulate M20b	1159	1224	68.26895	1048	1266	95.44997

1.2.11 - Dataset M1b; Run 3; Simulated Dates; Multiple Plot



1.2.12 - Dataset M1b; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1b R3")
  {
    Date(Prior("latest","M9b.prior"));
    Date(Prior("earliest","M11b.prior"));
    Difference("TS1 M1b R3 Range", "latest", "earliest");
  };
};
```

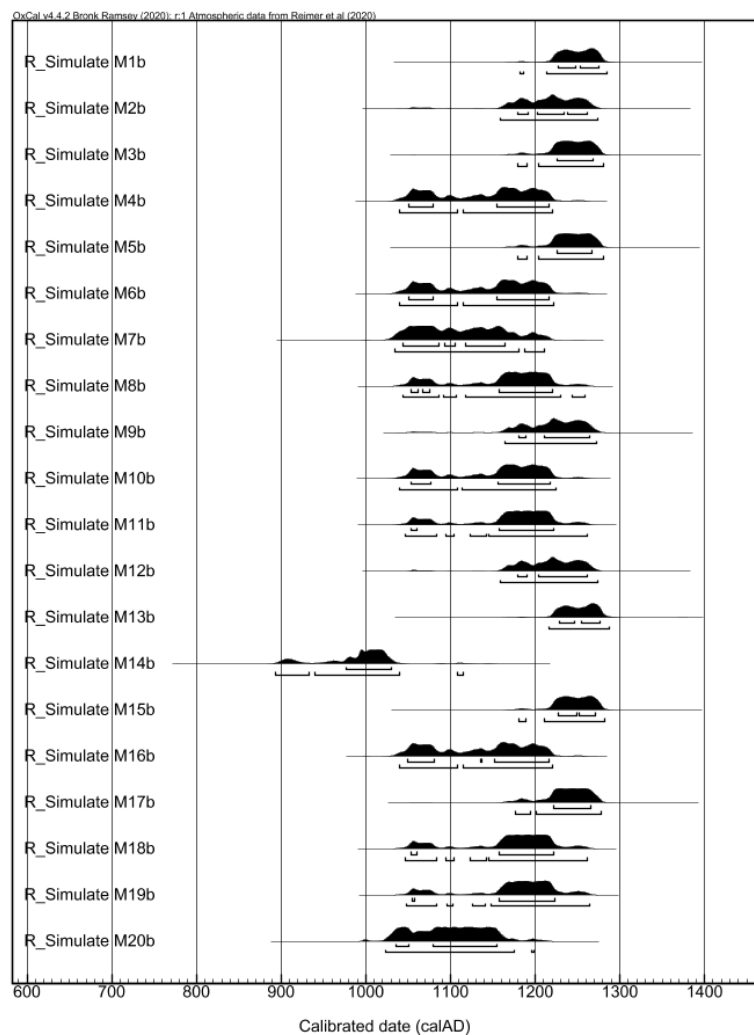
1.2.13 – Dataset M1b; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1b R3						
Prior latest	1229	1281	68.26895	1220	1292	95.44997
Prior earliest	1042	1157	68.26895	1028	1202	95.44997
Difference TS1 M1b R3 Range	104	210	68.26895	56	246	95.44997

1.2.14 - Dataset M1b; Run 4; Simulated Dates; Table of Distributions

Name: TS1 M1b Run 4	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1b	1228	1274	68.26895	1182	1285	95.44997
R_Simulate M2b	1178	1261	68.26895	1158	1273	95.44997
R_Simulate M3b	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M4b	1051	1216	68.26895	1040	1221	95.44997
R_Simulate M5b	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M6b	1051	1216	68.26895	1040	1221	95.44997
R_Simulate M7b	1044	1164	68.26895	1033	1210	95.44997
R_Simulate M8b	1053	1220	68.26895	1043	1258	95.44997
R_Simulate M9b	1180	1264	68.26895	1163	1272	95.44997
R_Simulate M10b	1053	1218	68.26895	1040	1225	95.44997
R_Simulate M11b	1054	1221	68.26895	1046	1261	95.44997
R_Simulate M12b	1179	1261	68.26895	1159	1273	95.44997
R_Simulate M13b	1228	1276	68.26895	1216	1287	95.44997
R_Simulate M14b	977	1029	68.26895	892	1114	95.44997
R_Simulate M15b	1227	1270	68.26895	1180	1282	95.44997
R_Simulate M16b	1049	1215	68.26895	1040	1219	95.44997
R_Simulate M17b	1222	1265	68.26895	1177	1278	95.44997
R_Simulate M18b	1054	1221	68.26895	1046	1261	95.44997
R_Simulate M19b	1055	1223	68.26895	1047	1264	95.44997
R_Simulate M20b	1036	1154	68.26895	1023	1198	95.44997

1.2.15 - Dataset M1b; Run 4; Simulated Dates; Multiple Plot



1.2.16 - Dataset M1b; Run 4; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1b R4")
  {
    Date(Prior("latest", "M13b.prior"));
    Date(Prior("earliest", "M14b.prior"));
    Difference("TS1 M1b R4 Range", "latest", "earliest");
  };
};
```

1.2.17 – Dataset M1b; Run 4; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1b R4						
Prior latest	1228	1276	68.26895	1216	1287	95.44997
Prior earliest	977	1029	68.26895	892	1114	95.44997
Difference TS1 M1b R4 Range	209	286	68.26895	160	377	95.44997

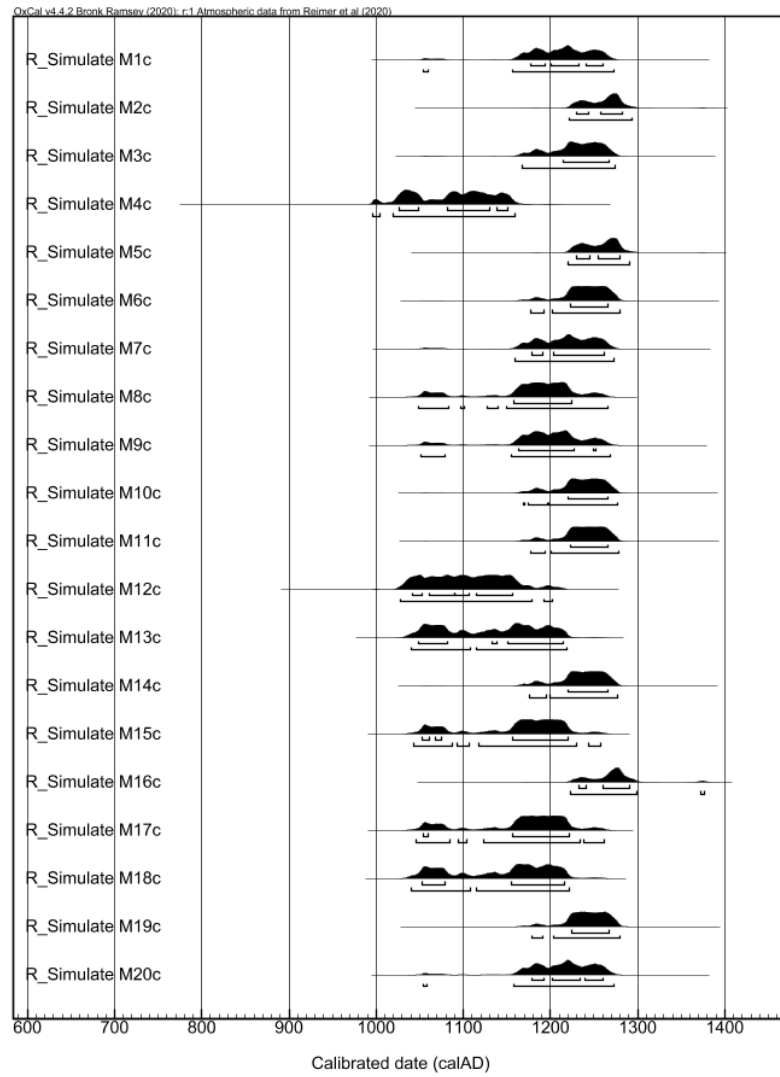
1.3.1 - Dataset M1c (20 dates; 700 BP $\pm$ 35; $\leq$ 100 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("M1c", 700-100*ln(rand()), 35);  
R_Simulate("M2c", 700-100*ln(rand()), 35);  
R_Simulate("M3c", 700-100*ln(rand()), 35);  
R_Simulate("M4c", 700-100*ln(rand()), 35);  
R_Simulate("M5c", 700-100*ln(rand()), 35);  
R_Simulate("M6c", 700-100*ln(rand()), 35);  
R_Simulate("M7c", 700-100*ln(rand()), 35);  
R_Simulate("M8c", 700-100*ln(rand()), 35);  
R_Simulate("M9c", 700-100*ln(rand()), 35);  
R_Simulate("M10c", 700-100*ln(rand()), 35);  
R_Simulate("M11c", 700-100*ln(rand()), 35);  
R_Simulate("M12c", 700-100*ln(rand()), 35);  
R_Simulate("M13c", 700-100*ln(rand()), 35);  
R_Simulate("M14c", 700-100*ln(rand()), 35);  
R_Simulate("M15c", 700-100*ln(rand()), 35);  
R_Simulate("M16c", 700-100*ln(rand()), 35);  
R_Simulate("M17c", 700-100*ln(rand()), 35);  
R_Simulate("M18c", 700-100*ln(rand()), 35);  
R_Simulate("M19c", 700-100*ln(rand()), 35);  
R_Simulate("M20c", 700-100*ln(rand()), 35);
```

1.3.2 - Dataset M1c; Run 1; Simulated Dates; Table of Distributions

Name: TS1 R1 M1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1c	1176	1260	68.26895	1053	1273	95.44997
R_Simulate M2c	1230	1282	68.26895	1221	1293	95.44997
R_Simulate M3c	1215	1267	68.26895	1168	1274	95.44997
R_Simulate M4c	1026	1151	68.26895	995	1159	95.44997
R_Simulate M5c	1229	1280	68.26895	1220	1290	95.44997
R_Simulate M6c	1223	1266	68.26895	1178	1279	95.44997
R_Simulate M7c	1179	1261	68.26895	1159	1273	95.44997
R_Simulate M8c	1158	1224	68.26895	1048	1265	95.44997
R_Simulate M9c	1163	1252	68.26895	1051	1268	95.44997
R_Simulate M10c	1219	1266	68.26895	1168	1277	95.44997
R_Simulate M11c	1222	1265	68.26895	1177	1278	95.44997
R_Simulate M12c	1041	1156	68.26895	1027	1201	95.44997
R_Simulate M13c	1049	1214	68.26895	1040	1219	95.44997
R_Simulate M14c	1220	1266	68.26895	1175	1277	95.44997
R_Simulate M15c	1053	1220	68.26895	1043	1258	95.44997
R_Simulate M16c	1232	1290	68.26895	1222	1376	95.44997
R_Simulate M17c	1053	1221	68.26895	1046	1261	95.44997
R_Simulate M18c	1052	1216	68.26895	1040	1222	95.44997
R_Simulate M19c	1224	1266	68.26895	1179	1279	95.44997
R_Simulate M20c	1178	1260	68.26895	1054	1273	95.44997

1.3.3 - Dataset M1c; Run 1; Simulated Dates; Multiple Plot



1.3.4 - Dataset M1c; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1c R1")
  {
    Date(Prior("latest","M16c.prior"));
    Date(Prior("earliest","M4c.prior"));
    Difference("TS1 M1c R1 Range", "latest", "earliest");
  };
};
```

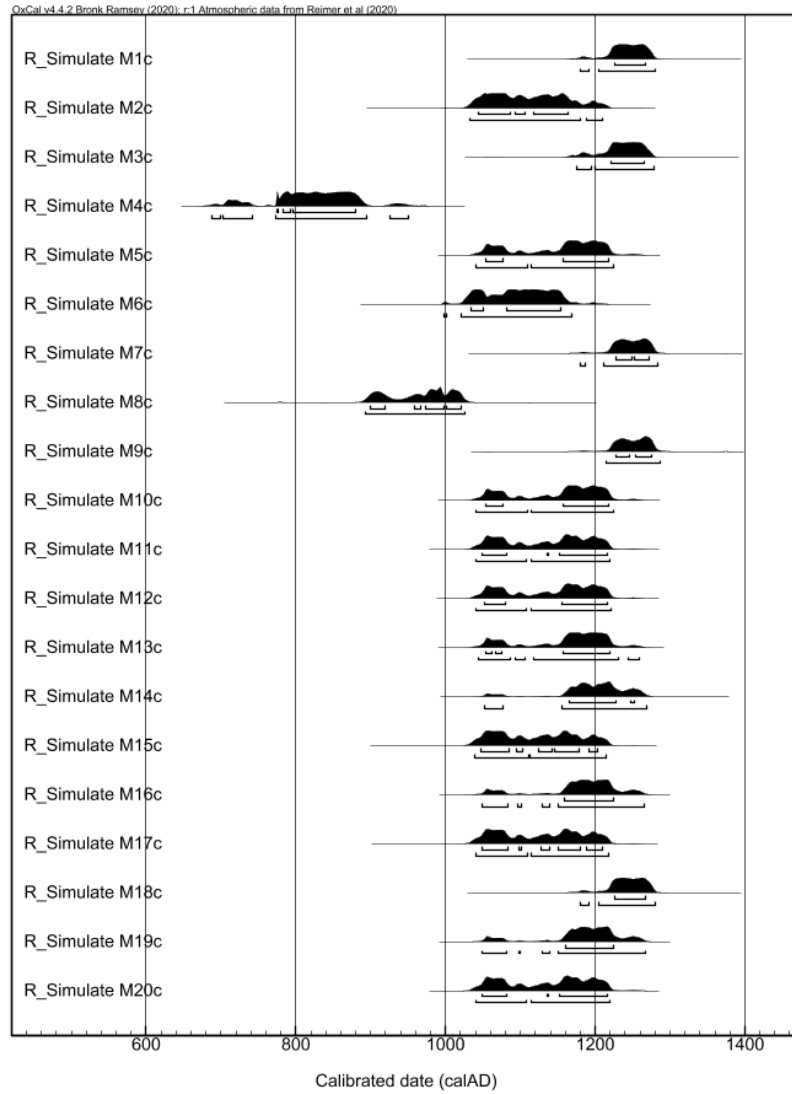
1.3.5 – Dataset M1c; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1c R1						
Prior latest	1232	1290	68.26895	1222	1376	95.44997
Prior earliest	1026	1151	68.26895	995	1159	95.44997
Difference TS1 M1c R1 Range	120	247	68.26895	83	280	95.44997

1.3.6 - Dataset M1c; Run 2; Simulated Dates; Table of Distributions

Name: TS1 R2 M1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1c	1225	1267	68.26895	1179	1280	95.44997
R_Simulate M2c	1044	1163	68.26895	1033	1210	95.44997
R_Simulate M3c	1220	1266	68.26895	1175	1278	95.44997
R_Simulate M4c	775	879	68.26895	687	949	95.44997
R_Simulate M5c	1053	1217	68.26895	1040	1224	95.44997
R_Simulate M6c	1034	1153	68.26895	997	1167	95.44997
R_Simulate M7c	1227	1272	68.26895	1181	1283	95.44997
R_Simulate M8c	899	1021	68.26895	892	1026	95.44997
R_Simulate M9c	1228	1275	68.26895	1214	1287	95.44997
R_Simulate M10c	1053	1217	68.26895	1040	1224	95.44997
R_Simulate M11c	1049	1215	68.26895	1040	1219	95.44997
R_Simulate M12c	1051	1216	68.26895	1040	1221	95.44997
R_Simulate M13c	1053	1220	68.26895	1043	1258	95.44997
R_Simulate M14c	1165	1253	68.26895	1052	1268	95.44997
R_Simulate M15c	1047	1202	68.26895	1039	1214	95.44997
R_Simulate M16c	1159	1224	68.26895	1048	1266	95.44997
R_Simulate M17c	1048	1210	68.26895	1040	1217	95.44997
R_Simulate M18c	1226	1267	68.26895	1179	1280	95.44997
R_Simulate M19c	1159	1225	68.26895	1048	1267	95.44997
R_Simulate M20c	1049	1215	68.26895	1040	1219	95.44997

1.3.7 - Dataset M1c; Run 2; Simulated Dates; Multiple Plot



1.3.8 - Dataset M1c; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1c R2")
  {
    Date(Prior("latest", "M9c.prior"));
    Date(Prior("earliest", "M4c.prior"));
    Difference("TS1 M1c R2 Range", "latest", "earliest");
  };
};
```

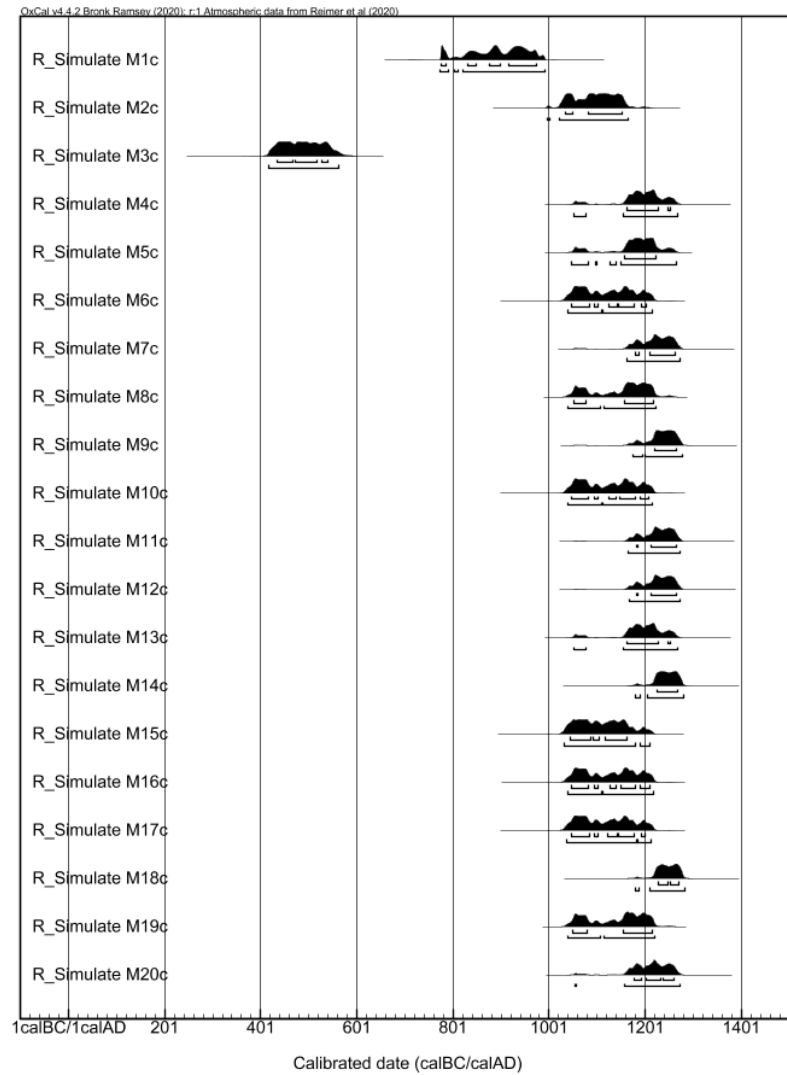
1.3.9 – Dataset M1c; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1c R2						
Prior latest	1228	1275	68.26895	1214	1287	95.44997
Prior earliest	775	879	68.26895	687	949	95.44997
Difference TS1 M1c R2 Range	365	474	68.26895	313	565	95.44997

1.3.10 - Dataset M1c; Run 3; Simulated Dates; Table of Distributions

Name: TS1 R3 M1c	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1c	775	974	68.26895	775	991	95.44997
R_Simulate M2c	1034	1152	68.26895	997	1166	95.44997
R_Simulate M3c	434	541	68.26895	418	562	95.44997
R_Simulate M4c	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M5c	1159	1224	68.26895	1048	1266	95.44997
R_Simulate M6c	1047	1202	68.26895	1039	1214	95.44997
R_Simulate M7c	1180	1264	68.26895	1163	1272	95.44997
R_Simulate M8c	1053	1217	68.26895	1040	1224	95.44997
R_Simulate M9c	1220	1266	68.26895	1175	1277	95.44997
R_Simulate M10c	1047	1207	68.26895	1039	1216	95.44997
R_Simulate M11c	1182	1266	68.26895	1166	1272	95.44997
R_Simulate M12c	1182	1266	68.26895	1167	1273	95.44997
R_Simulate M13c	1164	1252	68.26895	1052	1268	95.44997
R_Simulate M14c	1226	1268	68.26895	1179	1281	95.44997
R_Simulate M15c	1044	1162	68.26895	1032	1209	95.44997
R_Simulate M16c	1048	1209	68.26895	1040	1217	95.44997
R_Simulate M17c	1046	1200	68.26895	1038	1213	95.44997
R_Simulate M18c	1227	1272	68.26895	1180	1283	95.44997
R_Simulate M19c	1051	1216	68.26895	1040	1221	95.44997
R_Simulate M20c	1178	1261	68.26895	1055	1273	95.44997

1.3.11 - Dataset M1c; Run 3; Simulated Dates; Multiple Plot



1.3.12 - Dataset M1c; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1c R3")
  {
    Date(Prior("latest", "M18c.prior"));
    Date(Prior("earliest", "M3c.prior"));
    Difference("TS1 M1c R3 Range", "latest", "earliest");
  };
};
```

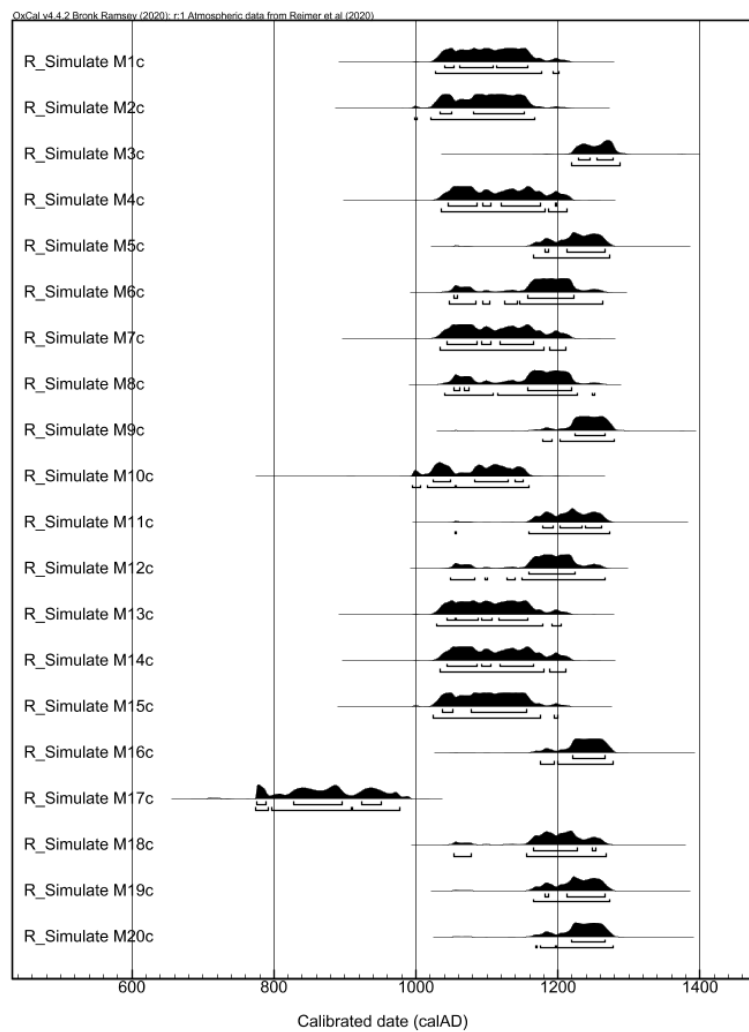
1.3.13 – Dataset M1c; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1c R3						
Prior latest	1227	1272	68.26895	1180	1283	95.44997
Prior earliest	434	541	68.26895	418	562	95.44997
Difference TS1 M1c R3 Range	712	810	68.26895	670	844	95.44997

1.3.14 - Dataset M1c; Run 4; Simulated Dates; Table of Distributions

Name: TS1 M1c Run 4	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1c	1040	1156	68.26895	1027	1201	95.44997
R_Simulate M2c	1034	1153	68.26895	997	1167	95.44997
R_Simulate M3c	1229	1278	68.26895	1218	1288	95.44997
R_Simulate M4c	1045	1198	68.26895	1036	1212	95.44997
R_Simulate M5c	1181	1265	68.26895	1165	1272	95.44997
R_Simulate M6c	1054	1222	68.26895	1047	1263	95.44997
R_Simulate M7c	1044	1165	68.26895	1034	1211	95.44997
R_Simulate M8c	1053	1219	68.26895	1040	1252	95.44997
R_Simulate M9c	1224	1266	68.26895	1178	1279	95.44997
R_Simulate M10c	1023	1151	68.26895	995	1158	95.44997
R_Simulate M11c	1178	1261	68.26895	1055	1273	95.44997
R_Simulate M12c	1158	1224	68.26895	1048	1265	95.44997
R_Simulate M13c	1043	1158	68.26895	1028	1203	95.44997
R_Simulate M14c	1044	1165	68.26895	1034	1211	95.44997
R_Simulate M15c	1037	1155	68.26895	1025	1199	95.44997
R_Simulate M16c	1221	1265	68.26895	1175	1278	95.44997
R_Simulate M17c	775	951	68.26895	774	977	95.44997
R_Simulate M18c	1165	1253	68.26895	1052	1268	95.44997
R_Simulate M19c	1181	1265	68.26895	1165	1272	95.44997
R_Simulate M20c	1219	1266	68.26895	1168	1276	95.44997

1.3.15 - Dataset M1c; Run 4; Simulated Dates; Multiple Plot



1.3.16 - Dataset M1c; Run 4; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1c R4")
  {
    Date(Prior("latest","M3c.prior"));
    Date(Prior("earliest","M17c.prior"));
    Difference("TS1 M1c R4 Range", "latest", "earliest");
  };
};
```

2.3.17 – Dataset M1c; Run 4; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1c R4						
Prior latest	1229	1278	68.26895	1218	1288	95.44997
Prior earliest	775	951	68.26895	774	977	95.44997
Difference TS1 M1c R4 Range	298	435	68.26895	265	497	95.44997

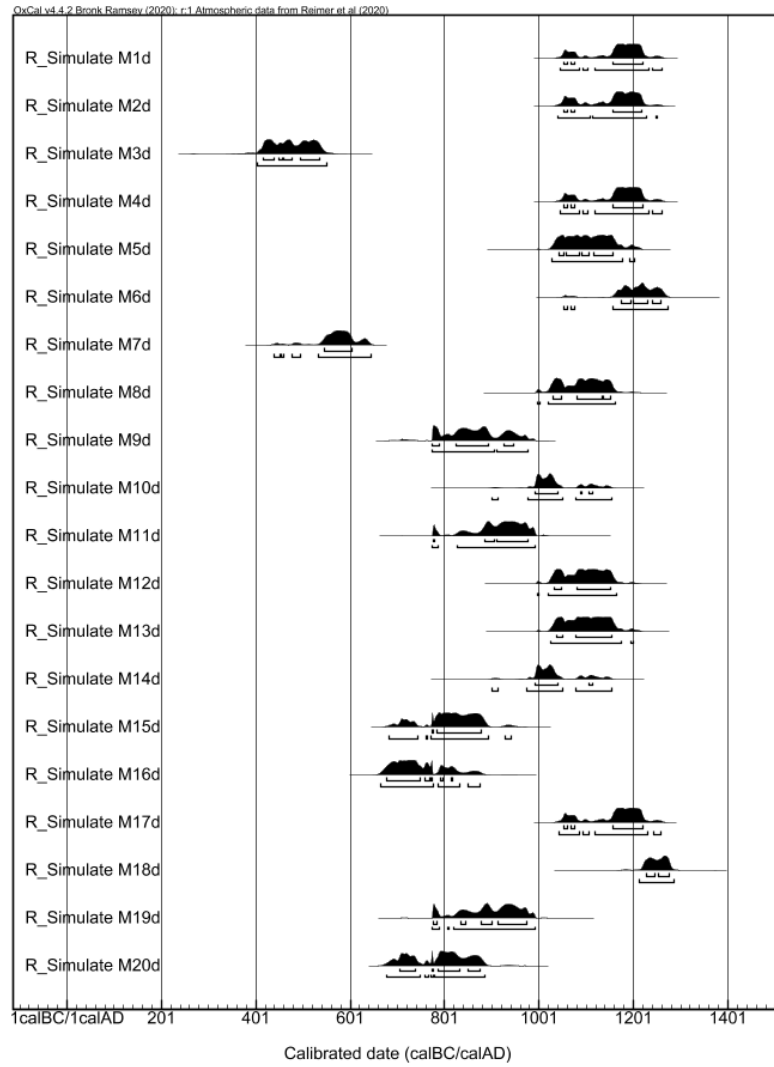
1.4.1 - Dataset M1d (20 dates; 700 BP $\pm$ 35; $\leq$ 200 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("M1d", 700-200*ln(rand()), 35);  
R_Simulate("M2d", 700-200*ln(rand()), 35);  
R_Simulate("M3d", 700-200*ln(rand()), 35);  
R_Simulate("M4d", 700-200*ln(rand()), 35);  
R_Simulate("M5d", 700-200*ln(rand()), 35);  
R_Simulate("M6d", 700-200*ln(rand()), 35);  
R_Simulate("M7d", 700-200*ln(rand()), 35);  
R_Simulate("M8d", 700-200*ln(rand()), 35);  
R_Simulate("M9d", 700-200*ln(rand()), 35);  
R_Simulate("M10d", 700-200*ln(rand()), 35);  
R_Simulate("M11d", 700-200*ln(rand()), 35);  
R_Simulate("M12d", 700-200*ln(rand()), 35);  
R_Simulate("M13d", 700-200*ln(rand()), 35);  
R_Simulate("M14d", 700-200*ln(rand()), 35);  
R_Simulate("M15d", 700-200*ln(rand()), 35);  
R_Simulate("M16d", 700-200*ln(rand()), 35);  
R_Simulate("M17d", 700-200*ln(rand()), 35);  
R_Simulate("M18d", 700-200*ln(rand()), 35);  
R_Simulate("M19d", 700-200*ln(rand()), 35);  
R_Simulate("M20d", 700-200*ln(rand()), 35);
```

1.4.2 - Dataset M1d; Run 1; Simulated Dates; Table of Distributions

Name: TS1 R1 M1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1d	1053	1221	68.26895	1045	1260	95.44997
R_Simulate M2d	1053	1219	68.26895	1040	1252	95.44997
R_Simulate M3d	417	535	68.26895	404	551	95.44997
R_Simulate M4d	1053	1221	68.26895	1045	1260	95.44997
R_Simulate M5d	1042	1157	68.26895	1028	1202	95.44997
R_Simulate M6d	1176	1260	68.26895	1053	1273	95.44997
R_Simulate M7d	546	604	68.26895	439	645	95.44997
R_Simulate M8d	1031	1152	68.26895	997	1162	95.44997
R_Simulate M9d	775	948	68.26895	774	976	95.44997
R_Simulate M10d	992	1115	68.26895	902	1155	95.44997
R_Simulate M11d	777	977	68.26895	775	993	95.44997
R_Simulate M12d	1034	1152	68.26895	997	1166	95.44997
R_Simulate M13d	1037	1155	68.26895	1024	1199	95.44997
R_Simulate M14d	992	1115	68.26895	901	1155	95.44997
R_Simulate M15d	774	878	68.26895	683	942	95.44997
R_Simulate M16d	678	816	68.26895	666	876	95.44997
R_Simulate M17d	1053	1220	68.26895	1044	1259	95.44997
R_Simulate M18d	1228	1275	68.26895	1214	1287	95.44997
R_Simulate M19d	776	975	68.26895	775	991	95.44997
R_Simulate M20d	705	876	68.26895	678	886	95.44997

1.4.3 - Dataset M1d; Run 1; Simulated Dates; Multiple Plot



1.4.4 - Dataset M1d; Run 1; Dataset Range; Model Script

```
Options()  
{  
  Resolution=1 year;  
  kIterations=20000;  
};  
Plot()  
{  
  Phase("TS1 M1d R1")  
  {  
    Date(Prior("latest","M18d.prior"));  
    Date(Prior("earliest","M3d.prior"));  
    Difference("TS1 M1d R1 Range", "latest", "earliest");  
  };  
};
```

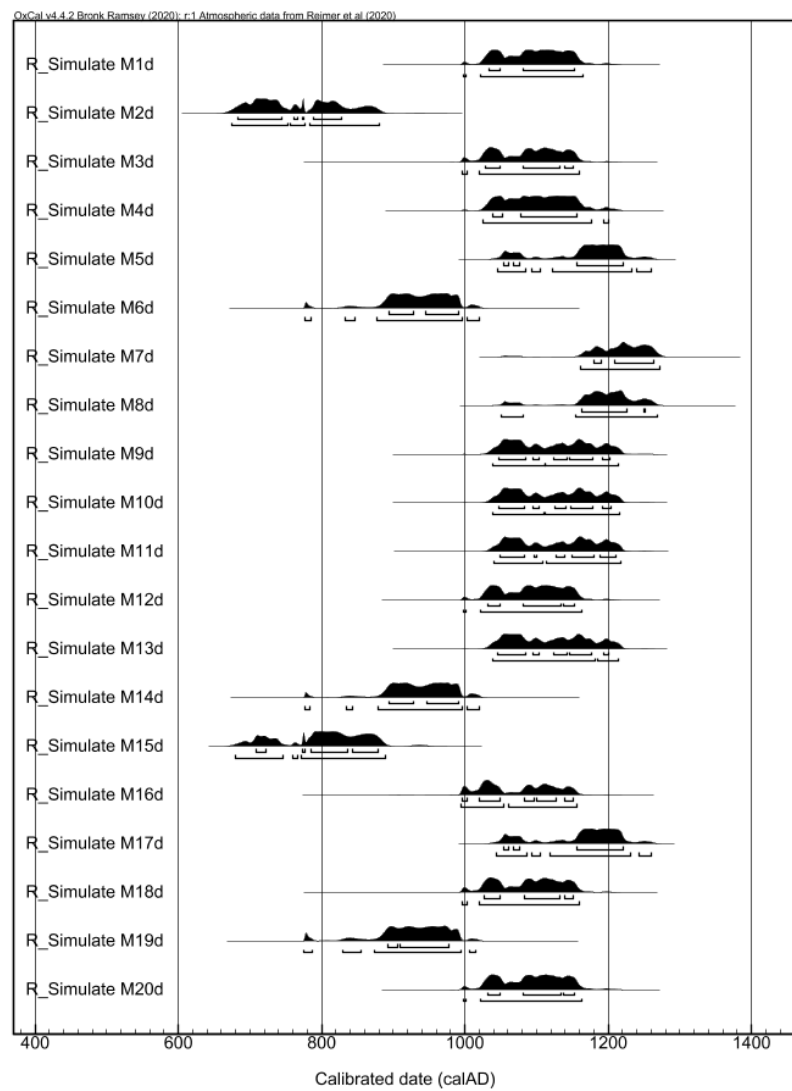
1.4.5 – Dataset M1d; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1d R1						
Prior latest	1228	1275	68.26895	1214	1287	95.44997
Prior earliest	417	535	68.26895	404	551	95.44997
Difference TS1 M1d R1 Range	722	823	68.26895	685	863	95.44997

1.4.6 - Dataset M1d; Run 2; Simulated Dates; Table of Distributions

Name: TS1 R2 M1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1d	1033	1152	68.26895	997	1165	95.44997
R_Simulate M2d	683	827	68.26895	674	879	95.44997
R_Simulate M3d	1028	1151	68.26895	996	1160	95.44997
R_Simulate M4d	1038	1156	68.26895	1025	1200	95.44997
R_Simulate M5d	1053	1221	68.26895	1045	1260	95.44997
R_Simulate M6d	893	990	68.26895	775	1019	95.44997
R_Simulate M7d	1179	1262	68.26895	1161	1272	95.44997
R_Simulate M8d	1162	1251	68.26895	1050	1268	95.44997
R_Simulate M9d	1047	1202	68.26895	1039	1214	95.44997
R_Simulate M10d	1047	1203	68.26895	1039	1215	95.44997
R_Simulate M11d	1048	1210	68.26895	1040	1217	95.44997
R_Simulate M12d	1032	1152	68.26895	997	1163	95.44997
R_Simulate M13d	1046	1200	68.26895	1038	1213	95.44997
R_Simulate M14d	894	991	68.26895	776	1020	95.44997
R_Simulate M15d	708	878	68.26895	680	889	95.44997
R_Simulate M16d	996	1150	68.26895	994	1157	95.44997
R_Simulate M17d	1053	1220	68.26895	1044	1259	95.44997
R_Simulate M18d	1027	1151	68.26895	996	1160	95.44997
R_Simulate M19d	891	977	68.26895	775	1014	95.44997
R_Simulate M20d	1031	1152	68.26895	997	1162	95.44997

1.4.7 - Dataset M1d; Run 2; Simulated Dates; Multiple Plot



1.4.8 - Dataset M1d; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1d R2")
  {
    Date(Prior("latest","M7d.prior"));
    Date(Prior("earliest","M2d.prior"));
    Difference("TS1 M1d R2 Range", "latest", "earliest");
  };
};
```

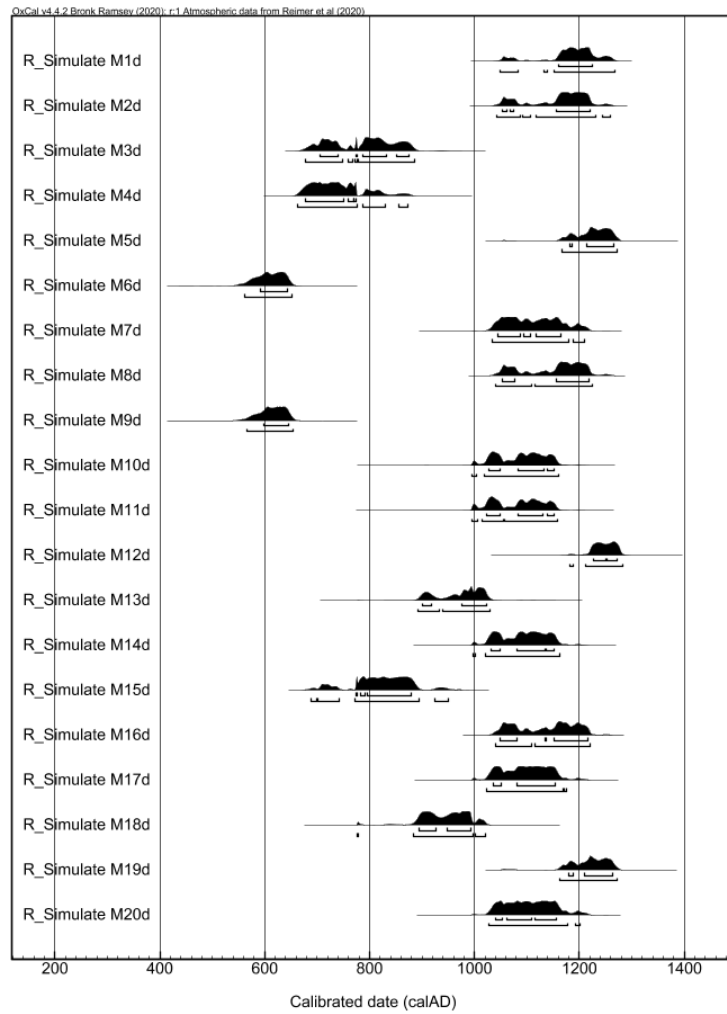
1.4.9 – Dataset M1d; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1d R2						
Prior latest	1179	1262	68.26895	1161	1272	95.44997
Prior earliest	683	827	68.26895	674	879	95.44997
Difference TS1 M1d R2 Range	386	534	68.26895	315	573	95.44997

1.4.10 - Dataset M1d; Run 3; Simulated Dates; Table of Distributions

Name: TS1 R3 M1d	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1d	1160	1225	68.26895	1049	1267	95.44997
R_Simulate M2d	1053	1220	68.26895	1043	1258	95.44997
R_Simulate M3d	705	875	68.26895	678	885	95.44997
R_Simulate M4d	678	774	68.26895	662	873	95.44997
R_Simulate M5d	1182	1266	68.26895	1166	1272	95.44997
R_Simulate M6d	591	643	68.26895	561	652	95.44997
R_Simulate M7d	1044	1164	68.26895	1033	1210	95.44997
R_Simulate M8d	1053	1217	68.26895	1040	1224	95.44997
R_Simulate M9d	597	645	68.26895	566	653	95.44997
R_Simulate M10d	1027	1151	68.26895	996	1160	95.44997
R_Simulate M11d	1023	1151	68.26895	995	1158	95.44997
R_Simulate M12d	1227	1272	68.26895	1181	1283	95.44997
R_Simulate M13d	900	1023	68.26895	892	1030	95.44997
R_Simulate M14d	1031	1152	68.26895	997	1162	95.44997
R_Simulate M15d	775	879	68.26895	687	949	95.44997
R_Simulate M16d	1049	1215	68.26895	1040	1219	95.44997
R_Simulate M17d	1035	1153	68.26895	1022	1174	95.44997
R_Simulate M18d	895	993	68.26895	777	1021	95.44997
R_Simulate M19d	1180	1264	68.26895	1163	1272	95.44997
R_Simulate M20d	1040	1156	68.26895	1027	1201	95.44997

1.4.11 - Dataset M1d; Run 3; Simulated Dates; Multiple Plot



1.4.12 - Dataset M1d; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1d R3")
  {
    Date(Prior("latest", "M12d.prior"));
    Date(Prior("earliest", "M6d.prior"));
    Difference("TS1 M1d R3 Range", "latest", "earliest");
  };
};
```

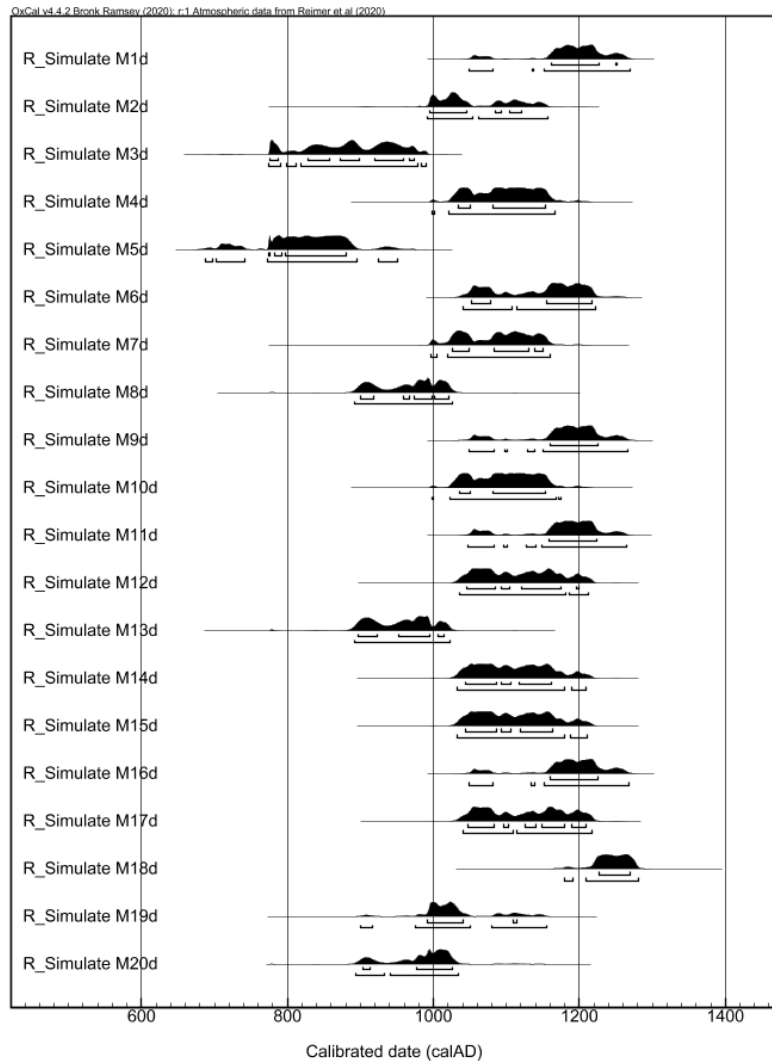
1.4.13 – Dataset M1d; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1d R3						
Prior latest	1227	1272	68.26895	1181	1283	95.44997
Prior earliest	591	643	68.26895	561	652	95.44997
Difference TS1 M1d R3 Range	604	670	68.26895	575	706	95.44997

1.4.14 - Dataset M1d; Run 4; Simulated Dates; Table of Distributions

Name: TS1 M1d Run 4	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1d	1161	1251	68.26895	1049	1268	95.44997
R_Simulate M2d	994	1120	68.26895	991	1157	95.44997
R_Simulate M3d	775	973	68.26895	774	989	95.44997
R_Simulate M4d	1034	1152	68.26895	997	1167	95.44997
R_Simulate M5d	775	880	68.26895	687	950	95.44997
R_Simulate M6d	1052	1216	68.26895	1040	1222	95.44997
R_Simulate M7d	1026	1151	68.26895	995	1159	95.44997
R_Simulate M8d	899	1021	68.26895	892	1026	95.44997
R_Simulate M9d	1159	1224	68.26895	1048	1266	95.44997
R_Simulate M10d	1035	1153	68.26895	998	1174	95.44997
R_Simulate M11d	1158	1223	68.26895	1048	1265	95.44997
R_Simulate M12d	1045	1198	68.26895	1036	1212	95.44997
R_Simulate M13d	896	1014	68.26895	891	1022	95.44997
R_Simulate M14d	1044	1162	68.26895	1032	1209	95.44997
R_Simulate M15d	1044	1163	68.26895	1033	1210	95.44997
R_Simulate M16d	1160	1226	68.26895	1049	1268	95.44997
R_Simulate M17d	1047	1208	68.26895	1040	1216	95.44997
R_Simulate M18d	1226	1269	68.26895	1179	1281	95.44997
R_Simulate M19d	991	1114	68.26895	900	1154	95.44997
R_Simulate M20d	903	1026	68.26895	892	1034	95.44997

1.4.15 - Dataset M1d; Run 4; Simulated Dates; Multiple Plot



1.4.16 - Dataset M1d; Run 4; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1d R4")
  {
    Date(Prior("latest", "M18d.prior"));
    Date(Prior("earliest", "M5d.prior"));
    Difference("TS1 M1d R4 Range", "latest", "earliest");
  };
};
```

1.4.17 – Dataset M1d; Run 4; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1d R4						
Prior latest	1226	1269	68.26895	1179	1281	95.44997
Prior earliest	775	880	68.26895	687	950	95.44997
Difference TS1 M1d R4 Range	360	470	68.26895	302	557	95.44997

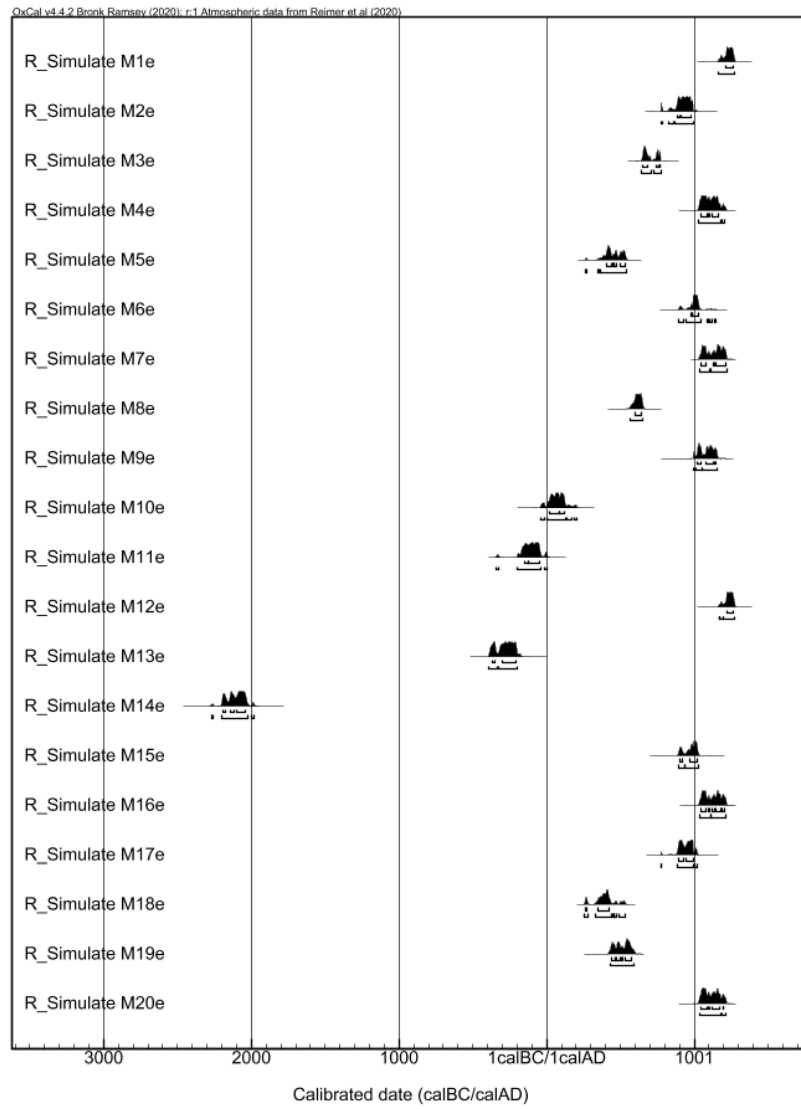
1.5.1 - Dataset M1e (20 dates; 700 BP $\pm$ 35; $\leq$ 500 years IA; IntCal20); Date Simulation; Model Script

```
Options()  
{  
  Resolution=1 year;  
  BCAD=FALSE;  
  kIterations=20,000;  
};  
Plot()  
{  
};  
R_Simulate("M1e", 700-500*ln(rand()), 35);  
R_Simulate("M2e", 700-500*ln(rand()), 35);  
R_Simulate("M3e", 700-500*ln(rand()), 35);  
R_Simulate("M4e", 700-500*ln(rand()), 35);  
R_Simulate("M5e", 700-500*ln(rand()), 35);  
R_Simulate("M6e", 700-500*ln(rand()), 35);  
R_Simulate("M7e", 700-500*ln(rand()), 35);  
R_Simulate("M8e", 700-500*ln(rand()), 35);  
R_Simulate("M9e", 700-500*ln(rand()), 35);  
R_Simulate("M10e", 700-500*ln(rand()), 35);  
R_Simulate("M11e", 700-500*ln(rand()), 35);  
R_Simulate("M12e", 700-500*ln(rand()), 35);  
R_Simulate("M13e", 700-500*ln(rand()), 35);  
R_Simulate("M14e", 700-500*ln(rand()), 35);  
R_Simulate("M15e", 700-500*ln(rand()), 35);  
R_Simulate("M16e", 700-500*ln(rand()), 35);  
R_Simulate("M17e", 700-500*ln(rand()), 35);  
R_Simulate("M18e", 700-500*ln(rand()), 35);  
R_Simulate("M19e", 700-500*ln(rand()), 35);  
R_Simulate("M20e", 700-500*ln(rand()), 35);
```

1.5.2 - Dataset M1e; Run 1; Simulated Dates; Table of Distributions

Name: TS1 R1 M1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1e	1216	1267	68.26895	1168	1275	95.44997
R_Simulate M2e	889	977	68.26895	775	994	95.44997
R_Simulate M3e	652	772	68.26895	644	774	95.44997
R_Simulate M4e	1044	1161	68.26895	1031	1209	95.44997
R_Simulate M5e	404	534	68.26895	265	541	95.44997
R_Simulate M6e	979	1031	68.26895	894	1145	95.44997
R_Simulate M7e	1049	1214	68.26895	1040	1219	95.44997
R_Simulate M8e	601	646	68.26895	570	655	95.44997
R_Simulate M9e	1023	1151	68.26895	995	1158	95.44997
R_Simulate M10e	24	121	68.26895	-40	203	95.44997
R_Simulate M11e	-151	-51	68.26895	-339	5	95.44997
R_Simulate M12e	1219	1266	68.26895	1168	1277	95.44997
R_Simulate M13e	-366	-207	68.26895	-389	-198	95.44997
R_Simulate M14e	-2194	-2037	68.26895	-2269	-1981	95.44997
R_Simulate M15e	900	1023	68.26895	892	1030	95.44997
R_Simulate M16e	1047	1207	68.26895	1039	1216	95.44997
R_Simulate M17e	895	993	68.26895	777	1021	95.44997
R_Simulate M18e	264	428	68.26895	258	535	95.44997
R_Simulate M19e	436	572	68.26895	430	592	95.44997
R_Simulate M20e	1046	1199	68.26895	1036	1213	95.44997

1.5.3 - Dataset M1e; Run 1; Simulated Dates; Multiple Plot



1.5.4 - Dataset M1e; Run 1; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1e R1")
  {
    Date(Prior("latest","M12e.prior"));
    Date(Prior("earliest","M14e.prior"));
    Difference("TS1 M1e R1 Range", "latest", "earliest");
  };
};
```

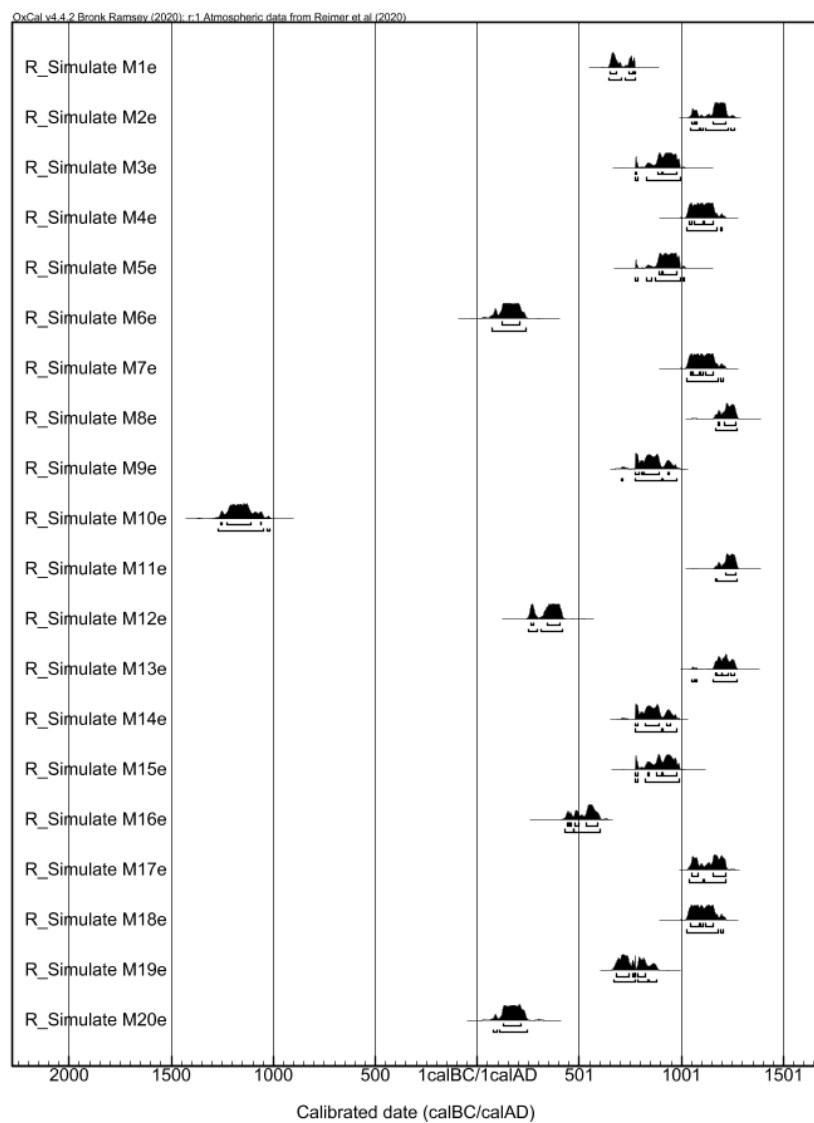
1.5.5 – Dataset M1e; Run 1; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1e R1						
Prior latest	1219	1266	68.26895	1168	1277	95.44997
Prior earliest	-2194	-2037	68.26895	-2269	-1981	95.44997
Difference TS1 M1e R1 Range	3271	3404	68.26895	3207	3463	95.44997

1.5.6 - Dataset M1e; Run 2; Simulated Dates; Table of Distributions

Name: TS1 R2 M1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1e	653	772	68.26895	645	774	95.44997
R_Simulate M2e	1053	1220	68.26895	1044	1259	95.44997
R_Simulate M3e	777	977	68.26895	775	993	95.44997
R_Simulate M4e	1040	1156	68.26895	1027	1201	95.44997
R_Simulate M5e	891	977	68.26895	775	1013	95.44997
R_Simulate M6e	123	209	68.26895	70	236	95.44997
R_Simulate M7e	1043	1157	68.26895	1028	1203	95.44997
R_Simulate M8e	1182	1266	68.26895	1167	1273	95.44997
R_Simulate M9e	775	940	68.26895	709	976	95.44997
R_Simulate M10e	-1255	-1060	68.26895	-1267	-1019	95.44997
R_Simulate M11e	1217	1267	68.26895	1168	1275	95.44997
R_Simulate M12e	262	407	68.26895	250	420	95.44997
R_Simulate M13e	1168	1259	68.26895	1053	1271	95.44997
R_Simulate M14e	775	945	68.26895	774	976	95.44997
R_Simulate M15e	776	976	68.26895	775	992	95.44997
R_Simulate M16e	440	592	68.26895	433	601	95.44997
R_Simulate M17e	1050	1216	68.26895	1040	1220	95.44997
R_Simulate M18e	1043	1159	68.26895	1029	1207	95.44997
R_Simulate M19e	683	824	68.26895	673	878	95.44997
R_Simulate M20e	129	213	68.26895	79	244	95.44997

1.5.7 - Dataset M1e; Run 2; Simulated Dates; Multiple Plot



1.5.8 - Dataset M1e; Run 2; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1e R2")
  {
    Date(Prior("latest","M11e.prior"));
    Date(Prior("earliest","M10e.prior"));
    Difference("TS1 M1e R2 Range", "latest", "earliest");
  };
};
```

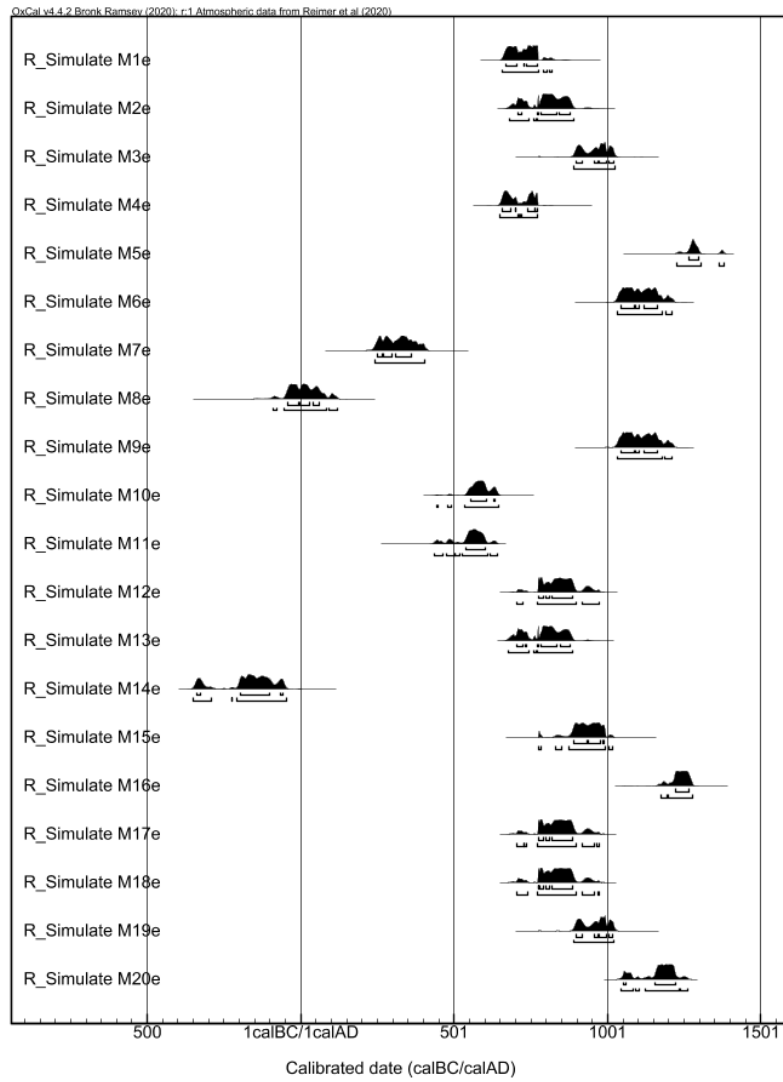
1.5.9 – Dataset M1e; Run 2; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1e R2						
Prior latest	1217	1267	68.26895	1168	1275	95.44997
Prior earliest	-1255	-1060	68.26895	-1267	-1019	95.44997
Difference TS1 M1e R2 Range	2327	2463	68.26895	2248	2518	95.44997

1.5.10 - Dataset M1e; Run 3; Simulated Dates; Table of Distributions

Name: TS1 R3 M1e	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1e	670	773	68.26895	657	820	95.44997
R_Simulate M2e	708	878	68.26895	680	889	95.44997
R_Simulate M3e	898	1019	68.26895	892	1023	95.44997
R_Simulate M4e	657	772	68.26895	650	774	95.44997
R_Simulate M5e	1265	1298	68.26895	1226	1381	95.44997
R_Simulate M6e	1044	1161	68.26895	1031	1209	95.44997
R_Simulate M7e	250	363	68.26895	243	403	95.44997
R_Simulate M8e	-43	60	68.26895	-92	119	95.44998
R_Simulate M9e	1044	1162	68.26895	1032	1210	95.44997
R_Simulate M10e	553	634	68.26895	444	648	95.44997
R_Simulate M11e	538	603	68.26895	435	640	95.44997
R_Simulate M12e	775	888	68.26895	706	974	95.44997
R_Simulate M13e	706	877	68.26895	679	887	95.44997
R_Simulate M14e	-338	-59	68.26895	-351	-48	95.44997
R_Simulate M15e	892	989	68.26895	775	1018	95.44997
R_Simulate M16e	1221	1265	68.26895	1176	1278	95.44997
R_Simulate M17e	775	887	68.26895	706	973	95.44998
R_Simulate M18e	775	885	68.26895	705	973	95.44997
R_Simulate M19e	898	1019	68.26895	892	1023	95.44997
R_Simulate M20e	1053	1221	68.26895	1046	1261	95.44997

1.5.11 - Dataset M1e; Run 3; Simulated Dates; Multiple Plot



1.5.12 - Dataset M1e; Run 3; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1e R3")
  {
    Date(Prior("latest", "M5e.prior"));
    Date(Prior("earliest", "M14e.prior"));
    Difference("TS1 M1e R3 Range", "latest", "earliest");
  };
};
```

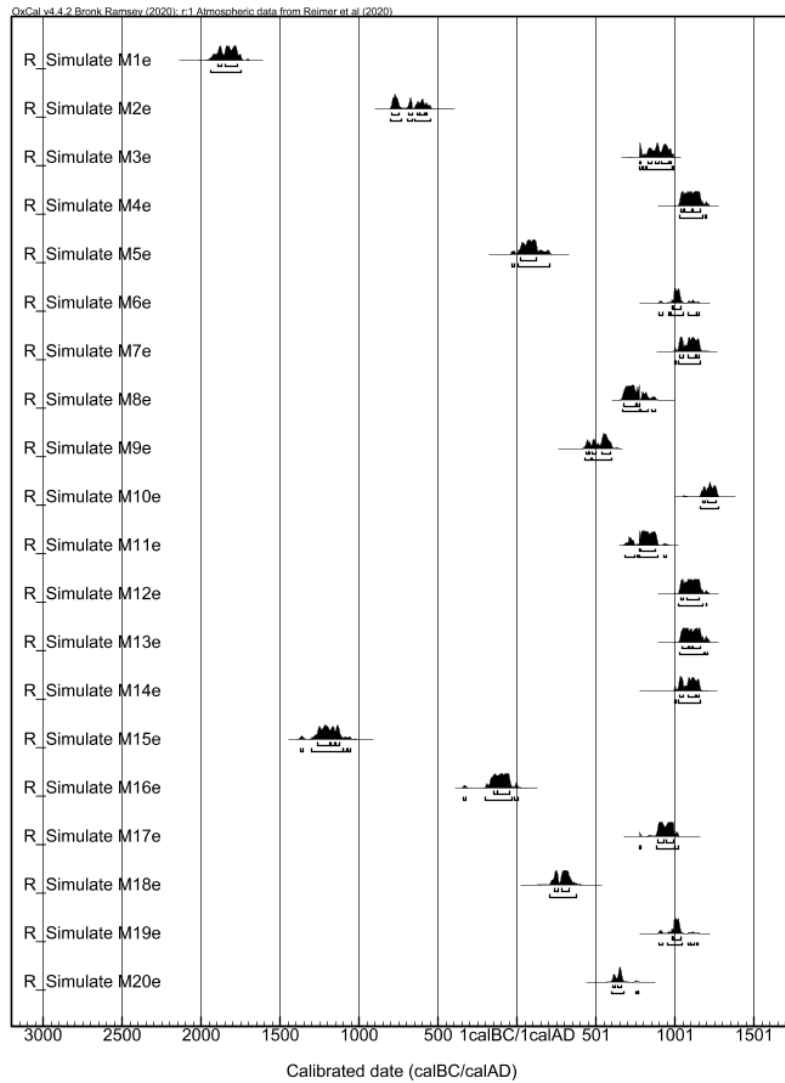
1.5.13 – Dataset M1e; Run 3; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1e R3						
Prior latest	1265	1298	68.26895	1226	1381	95.44997
Prior earliest	-338	-59	68.26895	-351	-48	95.44997
Difference TS1 M1e R3 Range	1339	1614	68.26895	1319	1636	95.44997

1.5.14 - Dataset M1e; Run 4; Simulated Dates; Table of Distributions

Name: TS1 M1e Run 4	Unmodelled (BC/AD)					
	from	to	%	from	to	%
R_Simulate M1e	-1895	-1771	68.26895	-1941	-1745	95.44997
R_Simulate M2e	-793	-573	68.26895	-802	-545	95.44997
R_Simulate M3e	775	974	68.26895	774	990	95.44997
R_Simulate M4e	1040	1156	68.26895	1027	1201	95.44997
R_Simulate M5e	25	124	68.26895	-34	204	95.44997
R_Simulate M6e	980	1038	68.26895	898	1152	95.44997
R_Simulate M7e	1029	1151	68.26895	996	1161	95.44997
R_Simulate M8e	677	774	68.26895	664	875	95.44997
R_Simulate M9e	440	590	68.26895	433	600	95.44997
R_Simulate M10e	1179	1261	68.26895	1159	1273	95.44997
R_Simulate M11e	774	878	68.26895	683	942	95.44997
R_Simulate M12e	1038	1155	68.26895	1025	1199	95.44997
R_Simulate M13e	1043	1160	68.26895	1030	1207	95.44997
R_Simulate M14e	1027	1151	68.26895	996	1160	95.44997
R_Simulate M15e	-1260	-1126	68.26895	-1374	-1054	95.44997
R_Simulate M16e	-151	-51	68.26895	-339	5	95.44997
R_Simulate M17e	894	992	68.26895	776	1021	95.44997
R_Simulate M18e	235	332	68.26895	209	379	95.44997
R_Simulate M19e	979	1033	68.26895	895	1148	95.44997
R_Simulate M20e	607	664	68.26895	595	771	95.44997

1.5.15 - Dataset M1e; Run 4; Simulated Dates; Multiple Plot



1.5.16 - Dataset M1e; Run 4; Dataset Range; Model Script

```
Options()
{
  Resolution=1 year;
  kIterations=20000;
};
Plot()
{
  Phase("TS1 M1e R4")
  {
    Date(Prior("latest","M10e.prior"));
    Date(Prior("earliest","M1e.prior"));
    Difference("TS1 M1e R4 Range", "latest", "earliest");
  };
};
```

1.5.17 – Dataset M1e; Run 4; Dataset Range; Table of Results

Name	Unmodelled (BC/AD)					
	from	to	%	from	to	%
Phase TS1 M1e R4						
Prior latest	1179	1261	68.26895	1159	1273	95.44997
Prior earliest	-1895	-1771	68.26895	-1941	-1745	95.44997
Difference TS1 M1e R4 Range	2983	3118	68.26895	2923	3188	95.44997

1.6.1 – Dataset M1a; Combine Model; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Combine(TS1_M1a_R1)  
{  
  Date(Prior("M1a","M1a.prior"));  
  Date(Prior("M2a","M2a.prior"));  
  Date(Prior("M3a","M3a.prior"));  
  Date(Prior("M4a","M4a.prior"));  
  Date(Prior("M5a","M5a.prior"));  
  Date(Prior("M6a","M6a.prior"));  
  Date(Prior("M7a","M7a.prior"));  
  Date(Prior("M8a","M8a.prior"));  
  Date(Prior("M9a","M9a.prior"));  
  Date(Prior("M10a","M10a.prior"));  
  Date(Prior("M11a","M11a.prior"));  
  Date(Prior("M12a","M12a.prior"));  
  Date(Prior("M13a","M13a.prior"));  
  Date(Prior("M14a","M14a.prior"));  
  Date(Prior("M15a","M15a.prior"));  
  Date(Prior("M16a","M16a.prior"));  
  Date(Prior("M17a","M17a.prior"));  
  Date(Prior("M18a","M18a.prior"));  
  Date(Prior("M19a","M19a.prior"));  
  Date(Prior("M20a","M20a.prior"));  
};
```

1.6.2 - Dataset M1a; Run 1; Combine Model; Table of Distributions

Name	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Combine TS1_M1a_R1	1230	1270	68.26895	1225	1270	95.44997	1245								112				
Prior M1a	1230	1285	68.26895	1220	1300	95.44997	1265	1230	1270	68.26895	1225	1270	95.44997	1245		80.8			
Prior M2a	1225	1280	68.26895	1215	1290	95.44997	1255	1230	1270	68.26895	1225	1270	95.44997	1245		104.9			
Prior M3a	1230	1290	68.26895	1220	1300	95.44997	1270	1230	1270	68.26895	1225	1270	95.44997	1245		78.8			
Prior M4a	1230	1295	68.26895	1220	1380	95.44997	1275	1230	1270	68.26895	1225	1270	95.44997	1245		59.4			
Prior M5a	1180	1265	68.26895	1160	1275	95.44997	1225	1230	1270	68.26895	1225	1270	95.44997	1245		104.7			
Prior M6a	1220	1270	68.26895	1175	1280	95.44997	1240	1230	1270	68.26895	1225	1270	95.44997	1245		120.6			
Prior M7a	1180	1265	68.26895	1160	1275	95.44997	1225	1230	1270	68.26895	1225	1270	95.44997	1245		107.8			
Prior M8a	1225	1270	68.26895	1175	1285	95.44997	1245	1230	1270	68.26895	1225	1270	95.44997	1245		120.1			
Prior M9a	1175	1260	68.26895	1050	1275	95.44997	1210	1230	1270	68.26895	1225	1270	95.44997	1245		78.1			
Prior M10a	1180	1270	68.26895	1165	1275	95.44997	1230	1230	1270	68.26895	1225	1270	95.44997	1245		114.7			
Prior M11a	1225	1275	68.26895	1180	1285	95.44997	1250	1230	1270	68.26895	1225	1270	95.44997	1245		117.7			
Prior M12a	1225	1280	68.26895	1215	1290	95.44997	1255	1230	1270	68.26895	1225	1270	95.44997	1245		112.4			
Prior M13a	1225	1270	68.26895	1175	1285	95.44997	1245	1230	1270	68.26895	1225	1270	95.44997	1245		119.9			
Prior M14a	1180	1265	68.26895	1160	1275	95.44997	1225	1230	1270	68.26895	1225	1270	95.44997	1245		107.8			
Prior M15a	1230	1290	68.26895	1220	1380	95.44997	1270	1230	1270	68.26895	1225	1270	95.44997	1245		70.4			
Prior M16a	1220	1270	68.26895	1175	1280	95.44997	1245	1230	1270	68.26895	1225	1270	95.44997	1245		120.3			
Prior M17a	1220	1270	68.26895	1175	1280	95.44997	1245	1230	1270	68.26895	1225	1270	95.44997	1245		120.4			
Prior M18a	1225	1270	68.26895	1175	1285	95.44997	1245	1230	1270	68.26895	1225	1270	95.44997	1245		120.1			
Prior M19a	1220	1270	68.26895	1175	1280	95.44997	1240	1230	1270	68.26895	1225	1270	95.44997	1245		120.7			

Prior M20a	1225	1280	68.26895	1215	1290	95.44997	1250	1230	1270	68.26895	1225	1270	95.44997	1245		113.1			
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1.6.3 - Dataset M1a; Run 2; Combine Model; Table of Distributions

Name: M1a Combine R2	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Combine TS1_M1a_R2	1220	1260	68.26895	1220	1265	95.44997	1245								23.3				
Prior M1a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		118.3			
Prior M2a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		126.8			
Prior M3a	1045	1220	68.26895	1040	1220	95.44997	1145	1220	1260	68.26895	1220	1265	95.44997	1245		6			
Prior M4a	1260	1300	68.26895	1220	1380	95.44997	1275	1220	1260	68.26895	1220	1265	95.44997	1245		27.9			
Prior M5a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		130.7			
Prior M6a	1225	1280	68.26895	1215	1290	95.44997	1260	1220	1260	68.26895	1220	1265	95.44997	1245		78.5			
Prior M7a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		130.1			
Prior M8a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		72.1			
Prior M9a	1155	1225	68.26895	1045	1270	95.44997	1190	1220	1260	68.26895	1220	1265	95.44997	1245		41.2			
Prior M10a	1225	1280	68.26895	1215	1290	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		95.5			
Prior M11a	1155	1225	68.26895	1045	1270	95.44997	1190	1220	1260	68.26895	1220	1265	95.44997	1245		47.3			
Prior M12a	1225	1285	68.26895	1220	1295	95.44997	1265	1220	1260	68.26895	1220	1265	95.44997	1245		68.4			
Prior M13a	1225	1285	68.26895	1215	1295	95.44997	1260	1220	1260	68.26895	1220	1265	95.44997	1245		76.9			
Prior M14a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		72.1			
Prior M15a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		72.1			
Prior M16a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		117.5			

Prior M17a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		74.9			
Prior M18a	1225	1275	68.26895	1180	1285	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		109.4			
Prior M19a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		129.1			
Prior M20a	1225	1280	68.26895	1215	1290	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		95.5			

1.6.4 - Dataset M1a; Run 3; Combine Model; Table of Distributions

Name: M1a Combine R3	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Combine TS1_M1a_R3	1220	1260	68.26895	1220	1265	95.44997	1245								26.9				
Prior M1a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		116.6			
Prior M2a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		123.9			
Prior M3a	1225	1285	68.26895	1215	1295	95.44997	1260	1220	1260	68.26895	1220	1265	95.44997	1245		75.3			
Prior M4a	1050	1225	68.26895	1045	1265	95.44997	1180	1220	1260	68.26895	1220	1265	95.44997	1245		24.3			
Prior M5a	1225	1275	68.26895	1180	1285	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		106.5			
Prior M6a	1225	1285	68.26895	1220	1295	95.44997	1265	1220	1260	68.26895	1220	1265	95.44997	1245		64.9			
Prior M7a	1225	1270	68.26895	1175	1285	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		112.2			
Prior M8a	1225	1280	68.26895	1215	1290	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		95.5			
Prior M9a	1180	1270	68.26895	1165	1275	95.44997	1225	1220	1260	68.26895	1220	1265	95.44997	1245		129.3			
Prior M10a	1225	1270	68.26895	1175	1285	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		115.8			
Prior M11a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		74.9			
Prior M12a	1050	1220	68.26895	1040	1225	95.44997	1165	1220	1260	68.26895	1220	1265	95.44997	1245		10.8			
Prior M13a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		121.6			

Prior M14a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		130			
Prior M15a	1230	1290	68.26895	1220	1300	95.44997	1270	1220	1260	68.26895	1220	1265	95.44997	1245		52.1			
Prior M16a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1260	68.26895	1220	1265	95.44997	1245		72			
Prior M17a	1050	1220	68.26895	1040	1225	95.44997	1165	1220	1260	68.26895	1220	1265	95.44997	1245		10.8			
Prior M18a	1225	1270	68.26895	1175	1285	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		110.4			
Prior M19a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		130.7			
Prior M20a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		129.6			

1.6.5 - Dataset M1a; Run 4; Combine Model; Table of Distributions

Name: M1a Combine R4	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Combine TS1_M1a_R4	1220	1260	68.26895	1220	1265	95.44997	1245							36.7					
Prior M1a	1165	1255	68.26895	1050	1270	95.44997	1205	1220	1260	68.26895	1220	1265	95.44997	1245		91.4			
Prior M2a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		118.4			
Prior M3a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		121.9			
Prior M4a	1215	1270	68.26895	1165	1280	95.44997	1235	1220	1260	68.26895	1220	1265	95.44997	1245		130.9			
Prior M5a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		120.2			
Prior M6a	1225	1275	68.26895	1180	1285	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		108.1			
Prior M7a	1050	1225	68.26895	1045	1265	95.44997	1185	1220	1260	68.26895	1220	1265	95.44997	1245		37.2			
Prior M8a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		117.5			
Prior M9a	1225	1275	68.26895	1180	1285	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		100.7			
Prior M10a	1220	1270	68.26895	1175	1280	95.44997	1240	1220	1260	68.26895	1220	1265	95.44997	1245		121.1			

Prior M11a	1225	1280	68.26895	1215	1290	95.44997	1255	1220	1260	68.26895	1220	1265	95.44997	1245		89.8			
Prior M12a	1225	1280	68.26895	1210	1290	95.44997	1250	1220	1260	68.26895	1220	1265	95.44997	1245		96.1			
Prior M13a	1155	1225	68.26895	1045	1270	95.44997	1190	1220	1260	68.26895	1220	1265	95.44997	1245		44.7			
Prior M14a	1050	1220	68.26895	1040	1225	95.44997	1165	1220	1260	68.26895	1220	1265	95.44997	1245		12.8			
Prior M15a	1225	1280	68.26895	1215	1290	95.44997	1260	1220	1260	68.26895	1220	1265	95.44997	1245		76.6			
Prior M16a	1225	1280	68.26895	1215	1290	95.44997	1260	1220	1260	68.26895	1220	1265	95.44997	1245		76.6			
Prior M17a	1050	1220	68.26895	1040	1255	95.44997	1170	1220	1260	68.26895	1220	1265	95.44997	1245		16.9			
Prior M18a	1180	1270	68.26895	1165	1275	95.44997	1225	1220	1260	68.26895	1220	1265	95.44997	1245		130.6			
Prior M19a	1175	1265	68.26895	1160	1275	95.44997	1220	1220	1260	68.26895	1220	1265	95.44997	1245		122.9			
Prior M20a	1220	1270	68.26895	1175	1280	95.44997	1245	1220	1260	68.26895	1220	1265	95.44997	1245		119.3			

1.7.1 - Dataset M1a; Exponential Prior/No Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model M1a");
    Phase()
    {
      Date(Prior("M1a", "M1a.prior"));
      Date(Prior("M2a", "M2a.prior"));
      Date(Prior("M3a", "M3a.prior"));
      Date(Prior("M4a", "M4a.prior"));
      Date(Prior("M5a", "M5a.prior"));
      Date(Prior("M6a", "M6a.prior"));
      Date(Prior("M7a", "M7a.prior"));
      Date(Prior("M8a", "M8a.prior"));
      Date(Prior("M9a", "M9a.prior"));
      Date(Prior("M10a", "M10a.prior"));
      Date(Prior("M11a", "M11a.prior"));
      Date(Prior("M12a", "M12a.prior"));
      Date(Prior("M13a", "M13a.prior"));
      Date(Prior("M14a", "M14a.prior"));
      Date(Prior("M15a", "M15a.prior"));
      Date(Prior("M16a", "M16a.prior"));
      Date(Prior("M17a", "M17a.prior"));
      Date(Prior("M18a", "M18a.prior"));
      Date(Prior("M19a", "M19a.prior"));
      Date(Prior("M20a", "M20a.prior"));
    };
    Boundary("TS1 M1a Tau R1");
  };
};
```

};

1.7.2 - Dataset M1a; Run 1; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1a R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 127.1 Aoverall 124				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1a							1233	1266	68.26895	1230	1267	95.44997					98.3
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1233	1270	68.26895	1229	1273	95.44997		88.3			99
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1233	1269	68.26895	1229	1272	95.44997		106.7			99
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1233	1270	68.26895	1229	1273	95.44997		86.7			98.9
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1233	1270	68.26895	1229	1273	95.44997		69.7			99.4
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1234	1267	68.26895	1224	1271	95.44997		108.3			98.8
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1233	1268	68.26895	1227	1271	95.44997		118.1			99.2
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1234	1267	68.26895	1225	1271	95.44997		110.8			98.9
Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1233	1268	68.26895	1228	1271	95.44997		116.8			99
Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1234	1267	68.26895	1220	1271	95.44997		85.6			99
Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1234	1267	68.26895	1226	1271	95.44997		115.9			99.1
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1233	1269	68.26895	1228	1272	95.44997		115			99.1
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1233	1269	68.26895	1228	1272	95.44997		111.8			98.9

Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1233	1268	68.26895	1228	1271	95.44997		116.6			98.9
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1234	1267	68.26895	1225	1271	95.44997		110.8			98.9
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1233	1270	68.26895	1229	1273	95.44997		79.5			99.1
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1233	1268	68.26895	1228	1271	95.44997		117			99.2
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1233	1268	68.26895	1228	1271	95.44997		117.2			99
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1233	1268	68.26895	1228	1271	95.44997		116.9			99.2
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1233	1268	68.26895	1227	1271	95.44997		118			99.1
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1233	1269	68.26895	1228	1272	95.44997		112.2			99
Boundary TS1 M1a Tau R1							1237	1275	68.26895	1233	1277	95.44997					98

1.7.3 - Dataset M1a; Run 2; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1a R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 80.2 Aoverall 69			
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1a							1224	1246	68.26895	1217	1257	95.44997					98.1
Phase																	
Prior M1a	1224	1266	68.26895	1179	1279	95.44997	1227	1256	68.26895	1219	1269	95.44997		115.2			98.9
Prior M2a	1220	1266	68.26895	1175	1278	95.44997	1227	1256	68.26895	1216	1269	95.44997		119.9			99.3
Prior M3a	1049	1215	68.26895	1040	1219	95.44997	1192	1258	68.26895	1160	1262	95.44997		68.6			98.7
Prior M4a	1262	1297	68.26895	1224	1379	95.44997	1227	1256	68.26895	1223	1271	95.44997		41.9			99.2

Prior M5a	1217	1267	68.26895	1168	1275	95.44997	1226	1257	68.26895	1213	1269	95.44997		122			98.8
Prior M6a	1229	1280	68.26895	1220	1290	95.44997	1227	1255	68.26895	1222	1270	95.44997		89.6			99.1
Prior M7a	1218	1266	68.26895	1168	1276	95.44997	1227	1256	68.26895	1214	1269	95.44997		121.7			99.5
Prior M8a	1164	1252	68.26895	1052	1268	95.44997	1218	1259	68.26895	1187	1266	95.44997		86.3			99.1
Prior M9a	1158	1224	68.26895	1048	1265	95.44997	1211	1259	68.26895	1180	1265	95.44997		74.2			99.1
Prior M10a	1228	1277	68.26895	1216	1287	95.44997	1227	1256	68.26895	1221	1269	95.44997		101.7			99.1
Prior M11a	1159	1225	68.26895	1048	1267	95.44997	1213	1259	68.26895	1182	1265	95.44997		75.9			98.8
Prior M12a	1230	1282	68.26895	1221	1293	95.44997	1227	1256	68.26895	1222	1270	95.44997		81.3			99
Prior M13a	1229	1280	68.26895	1220	1290	95.44997	1227	1255	68.26895	1222	1270	95.44997		88.4			99
Prior M14a	1164	1252	68.26895	1052	1268	95.44997	1218	1259	68.26895	1186	1266	95.44997		86.2			99.1
Prior M15a	1164	1252	68.26895	1052	1268	95.44997	1218	1259	68.26895	1187	1266	95.44997		86.4			99.1
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1227	1255	68.26895	1219	1269	95.44997		114.6			99.1
Prior M17a	1164	1252	68.26895	1052	1268	95.44997	1219	1259	68.26895	1188	1266	95.44997		87.9			99.1
Prior M18a	1227	1270	68.26895	1180	1282	95.44997	1227	1255	68.26895	1220	1269	95.44997		110.3			98.9
Prior M19a	1219	1266	68.26895	1168	1276	95.44997	1226	1256	68.26895	1215	1269	95.44997		121.2			99.2
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1227	1255	68.26895	1221	1269	95.44997		101.6			99.4
Boundary TS1 M1a Tau R2							1243	1271	68.26895	1229	1277	95.44997					96.5

1.7.4 - Dataset M1a; Run 3; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1a R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.9 Aoverall 91.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C

Sequence																	
Tau_Boundary Model M1a							1224	1246	68.26895	1218	1257	95.44997					98.3
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1227	1256	68.26895	1219	1268	95.44997		114.4			99.4
Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1227	1256	68.26895	1217	1268	95.44997		118.5			99.4
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1228	1255	68.26895	1222	1269	95.44997		86.3			99.4
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1205	1259	68.26895	1175	1264	95.44997		71.6			98.7
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1227	1255	68.26895	1221	1268	95.44997		108.7			99.4
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1227	1255	68.26895	1223	1269	95.44997		77.4			99.1
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1228	1256	68.26895	1220	1268	95.44997		112			99.4
Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1228	1255	68.26895	1221	1268	95.44997		101.6			99.4
Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1226	1257	68.26895	1207	1268	95.44997		121.1			99.3
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1227	1256	68.26895	1219	1268	95.44997		114			99.2
Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1220	1259	68.26895	1187	1266	95.44997		87.5			98.7
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1195	1258	68.26895	1167	1263	95.44997		72			98.8
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1228	1256	68.26895	1218	1268	95.44997		117.3			99.3
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1227	1257	68.26895	1213	1269	95.44997		121.9			99.1
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1228	1255	68.26895	1223	1269	95.44997		65.5			99.5
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1219	1259	68.26895	1187	1266	95.44997		86.2			98.7
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1195	1258	68.26895	1166	1263	95.44997		72.3			99.1
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1228	1255	68.26895	1220	1268	95.44997		110.9			99.3
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1226	1256	68.26895	1213	1269	95.44997		122.3			99.3
Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1227	1257	68.26895	1215	1269	95.44997		121.8			99.1

Last M1a R3 Tau							1243	1269	68.26895	1230	1274	95.44997					97.5
Boundary TS1 M1a Tau R3							1242	1270	68.26895	1230	1276	95.44997					95.7

1.7.5 - Dataset M1a; Run 4; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1a R4 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 107.8 Aoverall 97.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1a							1224	1246	68.26895	1218	1257	95.44997					97.3
Phase																	
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1222	1258	68.26895	1196	1266	95.44997		95.7			99
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1228	1255	68.26895	1219	1266	95.44997		116.1			99.1
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1227	1255	68.26895	1218	1266	95.44997		118.2			98.9
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1226	1256	68.26895	1214	1267	95.44997		123.2			99
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1227	1255	68.26895	1219	1266	95.44997		117.2			98.7
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1227	1254	68.26895	1220	1266	95.44997		110.1			98.9
Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1211	1259	68.26895	1182	1264	95.44997		70.4			98.5

Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1227	1254	68.26895	1219	1266	95.44997		115.7			99
Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1227	1254	68.26895	1221	1266	95.44997		105.3			99.4
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1227	1255	68.26895	1218	1266	95.44997		117.7			99.4
Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1227	1254	68.26895	1221	1267	95.44997		97.5			99.3
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1228	1254	68.26895	1221	1266	95.44997		102.1			99.4
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1213	1259	68.26895	1184	1264	95.44997		72.5			99.2
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1199	1258	68.26895	1171	1263	95.44997		68.3			99
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1227	1254	68.26895	1222	1267	95.44997		86.9			98.9
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1227	1254	68.26895	1222	1267	95.44997		86.9			99.3
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1203	1258	68.26895	1174	1263	95.44997		68.7			99
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1225	1257	68.26895	1209	1267	95.44997		122.2			98.9
Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1224	1257	68.26895	1204	1267	95.44997		116.4			99.3
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1227	1255	68.26895	1219	1266	95.44997		116.7			99
Last M1a R4 Tau							1242	1267	68.26895	1228	1272	95.44997					97.3
Boundary TS1 M1a Tau R4							1242	1268	68.26895	1228	1274	95.44997					95.8

1.8.1 - Dataset M1a; Exponential Prior/10-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1),"t");
  Sequence()
  {
    Tau_Boundary("Model M1a");
    Phase()
    {
      Date(Prior("M1a","M1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2a","M2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3a","M3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4a","M4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5a","M5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6a","M6a.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7a","M7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8a","M8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9a","M9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10a","M10a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11a","M11a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12a","M12a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13a","M13a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14a","M14a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15a","M15a.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16a","M16a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17a","M17a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18a","M18a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19a","M19a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20a","M20a.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1a Tau Mod Char R1");
};
};

```


1.8.2 - Dataset M1a; Run 1; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R1 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 130.6 Aoverall 126.8				
	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	0.633	68.26895	1.34E-17	0.932	95.44997		100			99.6
Sequence																	
Tau_Boundary Model M1a							1239	1269	68.26895	1233	1271	95.44997					97.1
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1237	1274	68.26895	1232	1276	95.44997		90.1			98.7
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1237	1273	68.26895	1232	1276	95.44997		106.8			99
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1237	1274	68.26895	1232	1276	95.44997		88.5			98.7
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1237	1274	68.26895	1232	1277	95.44997		72.9			98.6
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1240	1271	68.26895	1228	1275	95.44997		109.7			98.7
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1239	1272	68.26895	1231	1275	95.44997		117.8			98.1
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1240	1271	68.26895	1229	1275	95.44997		112.1			98.9
Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1238	1272	68.26895	1231	1275	95.44997		116.1			98.5
Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1241	1270	68.26895	1225	1276	95.44997		87.6			98.7
Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1240	1271	68.26895	1230	1275	95.44997		116.6			98.7
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1238	1272	68.26895	1232	1276	95.44997		114.2			98.6
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1238	1273	68.26895	1232	1276	95.44997		111.2			98.9

Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1238	1272	68.26895	1231	1275	95.44997		115.7			99.1
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1240	1271	68.26895	1229	1275	95.44997		112			98.7
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1237	1274	68.26895	1232	1277	95.44997		81.7			99.2
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1239	1272	68.26895	1231	1275	95.44997		116.2			99
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1238	1272	68.26895	1231	1275	95.44997		116.6			99
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1238	1272	68.26895	1231	1275	95.44997		116.1			99
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1239	1272	68.26895	1231	1275	95.44997		117.6			98.7
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1238	1273	68.26895	1232	1276	95.44997		111.6			98.8
Boundary TS1 M1a Tau Mod Char R1							1242	1279	68.26895	1237	1280	95.44997					97.5

1.8.3 - Dataset M1a; Run 2; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R2 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 81.3 Aoverall 71.7				
	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	0.008	0.977	68.26895	1.34E-17	0.983	95.44997		100			99.5
Sequence																	
Tau_Boundary Model M1a							1228	1250	68.26895	1221	1261	95.44997					97.6
Phase																	
Prior M1a	1224	1266	68.26895	1179	1279	95.44997	1231	1259	68.26895	1221	1272	95.44997		114.9			98.8

Prior M2a	1220	1266	68.26895	1175	1278	95.44997	1232	1260	68.26895	1219	1273	95.44997		119.6			99
Prior M3a	1049	1215	68.26895	1040	1219	95.44997	1198	1259	68.26895	1163	1267	95.44997		70			97.7
Prior M4a	1262	1297	68.26895	1224	1379	95.44997	1231	1260	68.26895	1226	1275	95.44997		43.5			99.2
Prior M5a	1217	1267	68.26895	1168	1275	95.44997	1231	1261	68.26895	1216	1273	95.44997		121.6			98.9
Prior M6a	1229	1280	68.26895	1220	1290	95.44997	1231	1259	68.26895	1225	1273	95.44997		90.1			99.1
Prior M7a	1218	1266	68.26895	1168	1276	95.44997	1231	1260	68.26895	1217	1273	95.44997		121.4			98.7
Prior M8a	1164	1252	68.26895	1052	1268	95.44997	1225	1262	68.26895	1189	1271	95.44997		87.1			98.5
Prior M9a	1158	1224	68.26895	1048	1265	95.44997	1218	1261	68.26895	1184	1270	95.44997		75.3			98.9
Prior M10a	1228	1277	68.26895	1216	1287	95.44997	1231	1260	68.26895	1224	1273	95.44997		101.9			99.1
Prior M11a	1159	1225	68.26895	1048	1267	95.44997	1220	1261	68.26895	1186	1269	95.44997		77			99.1
Prior M12a	1230	1282	68.26895	1221	1293	95.44997	1231	1259	68.26895	1225	1274	95.44997		82.2			98.5
Prior M13a	1229	1280	68.26895	1220	1290	95.44997	1231	1260	68.26895	1225	1274	95.44997		88.9			98.7
Prior M14a	1164	1252	68.26895	1052	1268	95.44997	1225	1262	68.26895	1191	1271	95.44997		87			98.5
Prior M15a	1164	1252	68.26895	1052	1268	95.44997	1225	1262	68.26895	1191	1271	95.44997		87			98.4
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1231	1260	68.26895	1222	1272	95.44997		114.4			98.5
Prior M17a	1164	1252	68.26895	1052	1268	95.44997	1225	1262	68.26895	1190	1271	95.44997		88.4			98.8
Prior M18a	1227	1270	68.26895	1180	1282	95.44997	1231	1259	68.26895	1223	1273	95.44997		110.1			98.8
Prior M19a	1219	1266	68.26895	1168	1276	95.44997	1231	1260	68.26895	1217	1273	95.44997		120.8			99
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1231	1259	68.26895	1224	1273	95.44997		101.9			98.7
Boundary TS1 M1a Tau Mod Char R2							1245	1274	68.26895	1233	1281	95.44997					95.8

1.8.4 - Dataset M1a; Run 3; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R3 Tau mod Char	Unmodell ed (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.8 Aoverall 94.1				
	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	0.818	68.26895	1.34E-17	1	95.44997		100			99.7
Sequence																	
Tau_Boundary Model M1a							1229	1250	68.26895	1221	1261	95.44997					99.3
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1231	1260	68.26895	1222	1272	95.44997		114.2			99.7
Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1231	1260	68.26895	1220	1272	95.44997		118.3			99.6
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1231	1259	68.26895	1225	1272	95.44997		86.9			99.6
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1212	1261	68.26895	1179	1268	95.44997		73.6			99.3
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1232	1260	68.26895	1223	1272	95.44997		108.5			99.5
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1231	1259	68.26895	1225	1273	95.44997		78.3			99.6
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1232	1259	68.26895	1223	1271	95.44997		111.8			99.6
Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1232	1259	68.26895	1224	1272	95.44997		101.7			99.5
Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1230	1261	68.26895	1211	1272	95.44997		120.7			99.6
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1232	1260	68.26895	1222	1272	95.44997		113.8			99.6

Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1225	1262	68.26895	1193	1270	95.44997		88.3			99.4
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1202	1260	68.26895	1170	1267	95.44997		74.3			99
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1231	1260	68.26895	1221	1272	95.44997		117			99.6
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1231	1260	68.26895	1217	1272	95.44997		121.7			99.6
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1231	1259	68.26895	1226	1273	95.44997		66.6			99.7
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1224	1262	68.26895	1192	1270	95.44997		86.9			99.6
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1202	1260	68.26895	1170	1267	95.44997		74.3			99.2
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1232	1260	68.26895	1223	1272	95.44997		110.7			99.5
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1231	1261	68.26895	1216	1272	95.44997		122			99.5
Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1231	1260	68.26895	1218	1272	95.44997		121.5			99.6
Last M1a R3 TmC							1246	1272	68.26895	1233	1278	95.44997					99
Boundary TS1 M1a Tau Mod Char R3							1246	1273	68.26895	1232	1280	95.44997					98.5

1.8.5 - Dataset M1a; Run 4; Exponential Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R4 Tau mod Char	Unmodell ed (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.3 Aoverall 99.9				
	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	0.732	68.26895	1.34E-17	0.97	95.44997		100			99.6

Sequence																
Tau_Boundary Model M1a							1228	1250	68.26895	1222	1260	95.44997				98.2
Phase																
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1227	1261	68.26895	1199	1270	95.44997		96.4		98.8
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1232	1259	68.26895	1222	1270	95.44997		115.9		98.8
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1231	1259	68.26895	1221	1270	95.44997		117.9		99
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1231	1259	68.26895	1218	1270	95.44997		122.8		99
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1231	1259	68.26895	1221	1270	95.44997		116.9		99.1
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1232	1258	68.26895	1223	1270	95.44997		110.1		99.2
Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1218	1260	68.26895	1186	1268	95.44997		71.8		98.6
Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1231	1259	68.26895	1222	1270	95.44997		115.4		98.9
Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1231	1258	68.26895	1223	1270	95.44997		105.4		99.1
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1231	1259	68.26895	1221	1270	95.44997		117.5		99.1
Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1231	1258	68.26895	1224	1270	95.44997		97.9		99.2
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1231	1258	68.26895	1224	1270	95.44997		102.4		98.9
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1220	1260	68.26895	1187	1268	95.44997		74.1		99
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1206	1260	68.26895	1174	1267	95.44997		70.4		98.4
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1231	1258	68.26895	1224	1270	95.44997		87.5		99
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1231	1258	68.26895	1224	1270	95.44997		87.5		98.8
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1209	1260	68.26895	1177	1267	95.44997		70.5		98.4
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1230	1259	68.26895	1213	1271	95.44997		121.9		98.9

Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1230	1260	68.26895	1208	1271	95.44997		116.3			98.5
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1231	1259	68.26895	1221	1270	95.44997		116.5			98.9
Last M1a R4 Tau							1245	1269	68.26895	1231	1276	95.44997					98.1
Boundary TS1 M1a Tau Mod Char R4							1245	1270	68.26895	1231	1277	95.44997					95.8

1.9.1 - Dataset M1a; Exponential Prior/Default Charcoal Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1a");
    Phase()
    {
      Date(Prior("M1a","M1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2a","M2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3a","M3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4a","M4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5a","M5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6a","M6a.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M7a","M7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8a","M8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9a","M9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10a","M10a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11a","M11a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12a","M12a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13a","M13a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14a","M14a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15a","M15a.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16a", "M16a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17a", "M17a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18a", "M18a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19a", "M19a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20a", "M20a.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1a Tau and Char R1");
};
};

```

1.9.2 - Dataset M1a; Run 1; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1a R1 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 132.1 Aoverall 128.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-5	1	68.26895	-20	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	0.717	68.26895	3.60E-17	1.158	95.44997		100			99.4
Sequence																	
Tau_Boundary Model M1a							1240	1270	68.26895	1233	1273	95.44997					97.9
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1238	1275	68.26895	1232	1278	95.44997		91.1			98
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1238	1274	68.26895	1232	1278	95.44997		106.9			98.3
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1238	1275	68.26895	1233	1278	95.44997		89.7			98.5
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1238	1275	68.26895	1233	1278	95.44997		74.2			98.9
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1240	1272	68.26895	1228	1278	95.44997		110			98.3
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1239	1273	68.26895	1231	1277	95.44997		117.4			98.1
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1242	1272	68.26895	1228	1277	95.44997		112.2			98.9
Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1239	1273	68.26895	1231	1277	95.44997		115.8			98.5

Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1242	1272	68.26895	1225	1278	95.44997		88.4			98.7
Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1240	1272	68.26895	1229	1277	95.44997		116.4			98.6
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1239	1274	68.26895	1232	1277	95.44997		113.8			98.3
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1239	1274	68.26895	1232	1277	95.44997		111			98.6
Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1239	1273	68.26895	1231	1277	95.44997		115.4			98.3
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1242	1272	68.26895	1229	1277	95.44997		112.2			98.4
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1238	1275	68.26895	1233	1278	95.44997		83.3			98.6
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1240	1273	68.26895	1231	1277	95.44997		115.9			98.6
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1239	1273	68.26895	1231	1277	95.44997		116.2			98.4
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1239	1273	68.26895	1231	1277	95.44997		115.7			98.9
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1239	1273	68.26895	1231	1277	95.44997		117.3			98.4
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1239	1274	68.26895	1232	1277	95.44997		111.5			99
Boundary TS1 M1a Tau and Char R1							1245	1280	68.26895	1237	1282	95.44997					96.8

1.9.3 - Dataset M1a; Run 2; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1a R2 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 84.7 Aoverall 75.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-7	1	68.26895	-34	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	0.951	68.26895	3.60E-17	1.395	95.44997		100			99.5
Sequence																	
Tau_Boundary Model M1a							1230	1255	68.26895	1221	1269	95.44997					99
Phase																	
Prior M1a	1224	1266	68.26895	1179	1279	95.44997	1234	1264	68.26895	1222	1277	95.44997		114.5			99.4
Prior M2a	1220	1266	68.26895	1175	1278	95.44997	1234	1264	68.26895	1220	1277	95.44997		118.9			99.5
Prior M3a	1049	1215	68.26895	1040	1219	95.44997	1204	1262	68.26895	1166	1277	95.44997		74.2			99.1
Prior M4a	1262	1297	68.26895	1224	1379	95.44997	1233	1265	68.26895	1226	1279	95.44997		45.9			99.2
Prior M5a	1217	1267	68.26895	1168	1275	95.44997	1233	1264	68.26895	1217	1278	95.44997		120.9			99.5
Prior M6a	1229	1280	68.26895	1220	1290	95.44997	1233	1264	68.26895	1225	1277	95.44997		90.9			99.3
Prior M7a	1218	1266	68.26895	1168	1276	95.44997	1233	1264	68.26895	1218	1278	95.44997		120.6			99.3
Prior M8a	1164	1252	68.26895	1052	1268	95.44997	1227	1265	68.26895	1194	1278	95.44997		88.4			99.2

Prior M9a	1158	1224	68.26895	1048	1265	95.44997	1221	1264	68.26895	1186	1277	95.44997		78.1			99.4
Prior M10a	1228	1277	68.26895	1216	1287	95.44997	1234	1264	68.26895	1225	1277	95.44997		102.1			99.3
Prior M11a	1159	1225	68.26895	1048	1267	95.44997	1222	1265	68.26895	1188	1277	95.44997		79.4			99.5
Prior M12a	1230	1282	68.26895	1221	1293	95.44997	1234	1264	68.26895	1226	1277	95.44997		83.3			99.5
Prior M13a	1229	1280	68.26895	1220	1290	95.44997	1233	1264	68.26895	1225	1277	95.44997		89.8			99.4
Prior M14a	1164	1252	68.26895	1052	1268	95.44997	1227	1265	68.26895	1194	1278	95.44997		88.5			99.6
Prior M15a	1164	1252	68.26895	1052	1268	95.44997	1227	1265	68.26895	1193	1278	95.44997		88.4			99.3
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1234	1264	68.26895	1222	1277	95.44997		114			99.5
Prior M17a	1164	1252	68.26895	1052	1268	95.44997	1227	1265	68.26895	1194	1278	95.44997		89.7			99.5
Prior M18a	1227	1270	68.26895	1180	1282	95.44997	1234	1264	68.26895	1224	1277	95.44997		109.8			99.5
Prior M19a	1219	1266	68.26895	1168	1276	95.44997	1233	1264	68.26895	1219	1278	95.44997		120.1			99.4
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1234	1264	68.26895	1225	1277	95.44997		102.1			99.4
Boundary TS1 M1a Tau and Char R2							1247	1277	68.26895	1233	1284	95.44997					98.4

1.9.4 - Dataset M1a; Run 3; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1a R3 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.7 Aoverall 98.2				
	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											100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	0.954	68.26895	3.60E-17	1.383	95.44997		100			98.5
Sequence																	
Tau_Boundary Model M1a							1230	1255	68.26895	1222	1268	95.44997					96.9
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1235	1264	68.26895	1222	1276	95.44997		113.8			98.4
Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1234	1264	68.26895	1221	1276	95.44997		117.7			98.9
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1234	1264	68.26895	1226	1276	95.44997		88			98.2
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1215	1264	68.26895	1182	1275	95.44997		77.2			97.8
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1234	1264	68.26895	1224	1275	95.44997		108.5			98.2
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1234	1264	68.26895	1226	1276	95.44997		79.8			98.4
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1234	1264	68.26895	1224	1276	95.44997		111.5			98.8

Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1234	1264	68.26895	1225	1276	95.44997		102			98.6
Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1233	1264	68.26895	1213	1278	95.44997		120.1			98.7
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1235	1264	68.26895	1223	1276	95.44997		113.4			98.9
Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1228	1265	68.26895	1197	1277	95.44997		89.5			98.6
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1207	1263	68.26895	1172	1275	95.44997		78.1			98.4
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1234	1264	68.26895	1222	1276	95.44997		116.4			97.9
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1234	1264	68.26895	1219	1277	95.44997		121			98.5
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1234	1264	68.26895	1226	1277	95.44997		68.6			98.2
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1227	1265	68.26895	1195	1278	95.44997		88.1			97.9
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1207	1263	68.26895	1173	1275	95.44997		78.5			98.1
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1234	1264	68.26895	1223	1276	95.44997		110.5			98.6
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1234	1265	68.26895	1218	1277	95.44997		121.2			98.3
Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1234	1264	68.26895	1219	1277	95.44997		120.7			98.6
Last M1a R3 TaC							1248	1274	68.26895	1233	1282	95.44997					97.2
Boundary TS1 M1a Tau and Char R3							1248	1275	68.26895	1233	1284	95.44997					95.3

1.9.5 - Dataset M1a; Run 4; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1a R4 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 111.2 Aoverall 104.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-7	1	68.26895	-31	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	0.918	68.26895	3.60E-17	1.329	95.44997		100			98.8
Sequence																	
Tau_Boundary Model M1a							1229	1254	68.26895	1221	1266	95.44997					98.1
Phase																	
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1229	1264	68.26895	1201	1276	95.44997		96.8			98.2
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1234	1263	68.26895	1222	1274	95.44997		115.5			98.7
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1234	1263	68.26895	1221	1274	95.44997		117.3			98.5
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1233	1263	68.26895	1218	1275	95.44997		121.9			99
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1234	1263	68.26895	1222	1274	95.44997		116.4			98.6
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1234	1263	68.26895	1223	1274	95.44997		109.9			99
Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1219	1263	68.26895	1187	1274	95.44997		75			98.2
Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1233	1263	68.26895	1222	1274	95.44997		115.1			99
Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1234	1262	68.26895	1224	1273	95.44997		105.5			99
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1234	1263	68.26895	1222	1274	95.44997		116.9			98.9

Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1234	1262	68.26895	1224	1274	95.44997		98.3			98.9
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1234	1262	68.26895	1224	1274	95.44997		102.7			99.1
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1224	1264	68.26895	1190	1274	95.44997		76.6			98.3
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1209	1262	68.26895	1176	1273	95.44997		75.2			98.5
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1234	1262	68.26895	1225	1274	95.44997		88.4			98.8
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1234	1262	68.26895	1225	1274	95.44997		88.5			98.9
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1212	1263	68.26895	1179	1274	95.44997		75			98.1
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1233	1263	68.26895	1214	1275	95.44997		121.1			98.5
Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1232	1263	68.26895	1209	1275	95.44997		115.8			98.8
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1233	1262	68.26895	1222	1274	95.44997		116			98.4
Last M1a R4 TandC							1247	1272	68.26895	1231	1279	95.44997					97.6
Boundary TS1 M1a Tau and Char R4							1247	1273	68.26895	1231	1280	95.44997					96.4

1.10.1 - Dataset M1a; Uniform Prior/No Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Boundary("Model M1a");
    Phase()
    {
      Date(Prior("M1a", "M1a.prior"));
      Date(Prior("M2a", "M2a.prior"));
      Date(Prior("M3a", "M3a.prior"));
      Date(Prior("M4a", "M4a.prior"));
      Date(Prior("M5a", "M5a.prior"));
      Date(Prior("M6a", "M6a.prior"));
      Date(Prior("M7a", "M7a.prior"));
      Date(Prior("M8a", "M8a.prior"));
      Date(Prior("M9a", "M9a.prior"));
      Date(Prior("M10a", "M10a.prior"));
      Date(Prior("M11a", "M11a.prior"));
      Date(Prior("M12a", "M12a.prior"));
      Date(Prior("M13a", "M13a.prior"));
      Date(Prior("M14a", "M14a.prior"));
      Date(Prior("M15a", "M15a.prior"));
      Date(Prior("M16a", "M16a.prior"));
      Date(Prior("M17a", "M17a.prior"));
      Date(Prior("M18a", "M18a.prior"));
      Date(Prior("M19a", "M19a.prior"));
      Date(Prior("M20a", "M20a.prior"));
    };
    Boundary("TS1 M1a Uniform R1");
  };
};
```

};

1.10.2 - Dataset M1a; Run 1; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1a R1 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 129.9 Aoverall 125.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1a							1220	1262	68.26895	1216	1265	95.44997					96.8
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1231	1270	68.26895	1227	1274	95.44997		86.4			99.7
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1231	1269	68.26895	1227	1273	95.44997		103.9			99.6
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1231	1270	68.26895	1227	1275	95.44997		85			99.5
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1231	1271	68.26895	1227	1275	95.44997		69.9			99.6
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1233	1266	68.26895	1225	1269	95.44997		111.5			99.5
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1232	1267	68.26895	1226	1270	95.44997		119.6			99.6
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1233	1266	68.26895	1225	1269	95.44997		114.1			99.7
Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1232	1267	68.26895	1226	1271	95.44997		117.1			99.7

Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1233	1265	68.26895	1225	1269	95.44997		87.4			99.6
Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1232	1266	68.26895	1226	1269	95.44997		119			99.6
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1231	1268	68.26895	1226	1272	95.44997		113.7			99.6
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1231	1268	68.26895	1227	1272	95.44997		109.4			99.6
Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1232	1267	68.26895	1226	1271	95.44997		116.5			99.6
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1233	1266	68.26895	1225	1269	95.44997		114.1			99.6
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1231	1270	68.26895	1227	1275	95.44997		78.5			99.6
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1232	1267	68.26895	1226	1271	95.44997		117.3			99.6
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1232	1267	68.26895	1226	1271	95.44997		117.9			99.6
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1232	1267	68.26895	1226	1271	95.44997		117.1			99.6
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1232	1267	68.26895	1226	1270	95.44997		119.4			99.7
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1231	1268	68.26895	1227	1272	95.44997		109.9			99.5
Boundary TS1 M1a Uniform R1							1237	1279	68.26895	1233	1282	95.44997					97.5

1.10.3 - Dataset M1a; Run 2; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1a R2 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 86.4 Aoverall 61.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1a							1199	1248	68.26895	1178	1257	95.44997					95.3
Phase																	
Prior M1a	1224	1266	68.26895	1179	1279	95.44997	1224	1253	68.26895	1217	1269	95.44997		113.5			99.6
Prior M2a	1220	1266	68.26895	1175	1278	95.44997	1223	1253	68.26895	1214	1268	95.44997		119			99.7
Prior M3a	1049	1215	68.26895	1040	1219	95.44997	1208	1256	68.26895	1195	1262	95.44997		42.4			98.9
Prior M4a	1262	1297	68.26895	1224	1379	95.44997	1225	1255	68.26895	1222	1276	95.44997		46.2			99.5
Prior M5a	1217	1267	68.26895	1168	1275	95.44997	1222	1255	68.26895	1212	1268	95.44997		122.2			99.8
Prior M6a	1229	1280	68.26895	1220	1290	95.44997	1224	1254	68.26895	1220	1272	95.44997		88.3			99.6
Prior M7a	1218	1266	68.26895	1168	1276	95.44997	1223	1254	68.26895	1213	1268	95.44997		121.6			99.7
Prior M8a	1164	1252	68.26895	1052	1268	95.44997	1215	1257	68.26895	1201	1265	95.44997		88.5			99.6
Prior M9a	1158	1224	68.26895	1048	1265	95.44997	1212	1257	68.26895	1198	1264	95.44997		70.4			99.5
Prior M10a	1228	1277	68.26895	1216	1287	95.44997	1224	1253	68.26895	1220	1270	95.44997		99.6			99.7
Prior M11a	1159	1225	68.26895	1048	1267	95.44997	1213	1257	68.26895	1199	1264	95.44997		73.7			99.4
Prior M12a	1230	1282	68.26895	1221	1293	95.44997	1224	1254	68.26895	1221	1273	95.44997		80.9			99.7

Prior M13a	1229	1280	68.26895	1220	1290	95.44997	1224	1254	68.26895	1221	1272	95.44997		87.2			99.7
Prior M14a	1164	1252	68.26895	1052	1268	95.44997	1215	1257	68.26895	1201	1265	95.44997		88.5			99.6
Prior M15a	1164	1252	68.26895	1052	1268	95.44997	1215	1257	68.26895	1201	1265	95.44997		88.5			99.5
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1224	1253	68.26895	1217	1269	95.44997		112.9			99.7
Prior M17a	1164	1252	68.26895	1052	1268	95.44997	1216	1257	68.26895	1201	1265	95.44997		90.2			99.6
Prior M18a	1227	1270	68.26895	1180	1282	95.44997	1224	1253	68.26895	1218	1269	95.44997		108.1			99.7
Prior M19a	1219	1266	68.26895	1168	1276	95.44997	1223	1254	68.26895	1213	1268	95.44997		120.8			99.7
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1224	1253	68.26895	1220	1270	95.44997		99.6			99.7
Boundary TS1 M1a Uniform R2							1244	1276	68.26895	1227	1285	95.44997					95.7

1.10.4 - Dataset M1a; Run 3; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1a R3 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 94 Aoverall 72.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1a							1200	1247	68.26895	1181	1257	95.44997					98.8
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1224	1253	68.26895	1217	1268	95.44997		112.8			99.9

Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1224	1253	68.26895	1216	1267	95.44997		117.6			99.9
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1225	1253	68.26895	1221	1271	95.44997		85.2			99.9
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1211	1257	68.26895	1199	1263	95.44997		59.4			99.8
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1224	1253	68.26895	1219	1268	95.44997		106.5			99.9
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1225	1253	68.26895	1221	1271	95.44997		77.2			99.9
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1224	1253	68.26895	1218	1268	95.44997		110			99.9
Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1224	1253	68.26895	1220	1269	95.44997		99.5			99.9
Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1221	1256	68.26895	1210	1266	95.44997		122.9			99.9
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1224	1253	68.26895	1218	1268	95.44997		112.2			99.9
Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1216	1257	68.26895	1203	1264	95.44997		89.6			99.9
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1209	1256	68.26895	1197	1262	95.44997		48.8			99.7
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1224	1253	68.26895	1216	1268	95.44997		116			99.9
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1223	1255	68.26895	1213	1267	95.44997		122.2			99.9
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1225	1253	68.26895	1221	1273	95.44997		66.5			99.9
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1216	1257	68.26895	1203	1264	95.44997		87.8			99.8
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1209	1256	68.26895	1197	1262	95.44997		48.9			99.7
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1224	1253	68.26895	1218	1268	95.44997		108.9			99.9
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1222	1255	68.26895	1213	1267	95.44997		122.8			99.9

Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1223	1254	68.26895	1214	1267	95.44997		121.8			99.9
Last M1a R3 Uniform							1245	1273	68.26895	1228	1278	95.44997					99.7
Boundary TS1 M1a Uniform R3							1244	1275	68.26895	1227	1283	95.44997					99.1

1.10.5 - Dataset M1a; Run 4; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1a R4 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.8 Aoverall 78				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1a							1202	1248	68.26895	1185	1257	95.44997					95.6
Phase																	
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1218	1257	68.26895	1206	1264	95.44997		98.3			99.7
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1223	1254	68.26895	1217	1266	95.44997		114.8			99.7
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1223	1254	68.26895	1217	1266	95.44997		117.2			99.8
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1222	1255	68.26895	1214	1265	95.44997		123.7			99.8
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1223	1254	68.26895	1217	1266	95.44997		116			99.8
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1224	1252	68.26895	1219	1266	95.44997		108.1			99.7

Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1214	1256	68.26895	1202	1263	95.44997		62.9			99.7
Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1223	1254	68.26895	1218	1266	95.44997		114.3			99.8
Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1224	1252	68.26895	1219	1267	95.44997		103.3			99.7
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1223	1254	68.26895	1217	1266	95.44997		116.6			99.7
Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1224	1253	68.26895	1220	1267	95.44997		95.8			99.8
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1224	1252	68.26895	1219	1267	95.44997		100.2			99.8
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1214	1257	68.26895	1203	1263	95.44997		67.7			99.6
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1211	1256	68.26895	1200	1262	95.44997		45.8			99.5
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1224	1252	68.26895	1220	1268	95.44997		85.7			99.8
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1224	1252	68.26895	1220	1268	95.44997		85.6			99.7
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1211	1256	68.26895	1200	1262	95.44997		49.4			99.6
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1221	1256	68.26895	1211	1265	95.44997		124.1			99.8
Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1220	1256	68.26895	1210	1264	95.44997		119.4			99.8
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1223	1254	68.26895	1217	1266	95.44997		115.5			99.8
Last M1a R4 Uniform							1243	1270	68.26895	1227	1275	95.44997					99
Boundary TS1 M1a Uniform R4							1243	1272	68.26895	1226	1279	95.44997					96.5

1.11.1 - Dataset M1a; Uniform Prior/10-Year Charcoal; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Plot()  
{  
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1),"t");  
  Sequence()  
  {  
    Boundary("Model M1a");  
    Phase()  
    {  
      Date(Prior("M1a","M1a.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M2a","M2a.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M3a","M3a.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M4a","M4a.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M5a","M5a.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M6a","M6a.prior"))  
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7a","M7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8a","M8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9a","M9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10a","M10a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11a","M11a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12a","M12a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13a","M13a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14a","M14a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15a","M15a.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16a","M16a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17a","M17a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18a","M18a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19a","M19a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20a","M20a.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1a Mod Char R1");
};
};

```

1.11.2 - Dataset M1a; Run 1; Uniform Prior /10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R1 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 131.1 Aoverall 126.4				
	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											100
U(0,1)	9.97E-18	1	68.26895	9.97E-18	1	95.44997	1.34E-17	0.613	68.26895	1.34E-17	0.926	95.44997		100			99.5
Sequence																	
Boundary Model M1a							1226	1264	68.26895	1219	1268	95.44997					97.5
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1235	1273	68.26895	1230	1278	95.44997		87.5			99.7
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1235	1272	68.26895	1230	1277	95.44997		104			99.7
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1235	1273	68.26895	1230	1278	95.44997		86.2			99.7
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1235	1274	68.26895	1231	1279	95.44997		71.8			99.6
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1239	1269	68.26895	1229	1273	95.44997		112.4			99.7
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1237	1270	68.26895	1230	1274	95.44997		119.2			99.7
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1238	1269	68.26895	1229	1273	95.44997		114.8			99.7

Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1236	1270	68.26895	1230	1275	95.44997		116.5			99.8
Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1240	1268	68.26895	1228	1273	95.44997		89			99.6
Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1238	1269	68.26895	1229	1274	95.44997		119.4			99.7
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1236	1271	68.26895	1230	1275	95.44997		113.2			99.7
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1236	1271	68.26895	1230	1276	95.44997		109.1			99.7
Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1236	1270	68.26895	1230	1275	95.44997		115.9			99.7
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1238	1269	68.26895	1229	1273	95.44997		114.8			99.8
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1235	1273	68.26895	1231	1278	95.44997		79.9			99.7
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1236	1270	68.26895	1230	1275	95.44997		116.8			99.7
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1236	1270	68.26895	1230	1275	95.44997		117.4			99.7
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1237	1270	68.26895	1230	1275	95.44997		116.5			99.7
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1237	1270	68.26895	1230	1274	95.44997		119			99.6
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1236	1271	68.26895	1230	1276	95.44997		109.6			99.8
Boundary TS1 M1a Mod Char R1							1242	1282	68.26895	1236	1286	95.44997					98.2

1.11.3 - Dataset M1a; Run 2; Uniform Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R2 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 87.1 Aoverall 67.9				
	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	0.089	1	68.26895	0.005	1	95.44997		100			99.5
Sequence																	
Boundary Model M1a							1204	1245	68.26895	1182	1260	95.44997					95.8
Phase																	
Prior M1a	1224	1266	68.26895	1179	1279	95.44997	1227	1257	68.26895	1220	1272	95.44997		113.3			99.7
Prior M2a	1220	1266	68.26895	1175	1278	95.44997	1227	1257	68.26895	1217	1272	95.44997		118.7			99.8
Prior M3a	1049	1215	68.26895	1040	1219	95.44997	1212	1257	68.26895	1198	1266	95.44997		51.2			99.3
Prior M4a	1262	1297	68.26895	1224	1379	95.44997	1228	1259	68.26895	1224	1280	95.44997		47.7			99.6
Prior M5a	1217	1267	68.26895	1168	1275	95.44997	1227	1257	68.26895	1215	1272	95.44997		121.6			99.8
Prior M6a	1229	1280	68.26895	1220	1290	95.44997	1228	1257	68.26895	1223	1275	95.44997		89.2			99.8
Prior M7a	1218	1266	68.26895	1168	1276	95.44997	1227	1257	68.26895	1216	1272	95.44997		121			99.8

Prior M8a	1164	1252	68.26895	1052	1268	95.44997	1221	1257	68.26895	1204	1269	95.44997		89.6			99.6
Prior M9a	1158	1224	68.26895	1048	1265	95.44997	1218	1258	68.26895	1202	1268	95.44997		73.5			99.6
Prior M10a	1228	1277	68.26895	1216	1287	95.44997	1228	1257	68.26895	1222	1274	95.44997		100.2			99.8
Prior M11a	1159	1225	68.26895	1048	1267	95.44997	1218	1258	68.26895	1202	1268	95.44997		76.5			99.5
Prior M12a	1230	1282	68.26895	1221	1293	95.44997	1228	1258	68.26895	1223	1276	95.44997		81.9			99.6
Prior M13a	1229	1280	68.26895	1220	1290	95.44997	1228	1258	68.26895	1223	1275	95.44997		88			99.7
Prior M14a	1164	1252	68.26895	1052	1268	95.44997	1222	1257	68.26895	1204	1269	95.44997		89.6			99.6
Prior M15a	1164	1252	68.26895	1052	1268	95.44997	1221	1257	68.26895	1204	1269	95.44997		89.7			99.6
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1228	1257	68.26895	1220	1272	95.44997		112.8			99.7
Prior M17a	1164	1252	68.26895	1052	1268	95.44997	1222	1257	68.26895	1205	1269	95.44997		91.2			99.6
Prior M18a	1227	1270	68.26895	1180	1282	95.44997	1228	1257	68.26895	1221	1273	95.44997		108.3			99.7
Prior M19a	1219	1266	68.26895	1168	1276	95.44997	1227	1257	68.26895	1216	1272	95.44997		120.3			99.8
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1228	1257	68.26895	1222	1274	95.44997		100.1			99.7
Boundary TS1 M1a Mod Char R2							1246	1280	68.26895	1230	1290	95.44997					96.9

1.11.4 - Dataset M1a; Run 3; Uniform Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R3 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.3 Aoverall 76				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-5	1	68.26895	-17	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	0.069	1	68.26895	0.006	1	95.44997		100			99.7
Sequence																	
Boundary Model M1a							1208	1245	68.26895	1192	1260	95.44997					97.7
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1228	1256	68.26895	1221	1270	95.44997		113.3			99.7
Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1228	1256	68.26895	1219	1270	95.44997		118.1			99.7
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1229	1256	68.26895	1223	1273	95.44997		85.1			99.6
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1218	1257	68.26895	1206	1266	95.44997		60.6			99.6
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1229	1256	68.26895	1222	1270	95.44997		107			99.8
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1229	1256	68.26895	1223	1273	95.44997		76.8			99.6
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1228	1256	68.26895	1221	1270	95.44997		110.6			99.7

Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1229	1256	68.26895	1222	1271	95.44997		99.9			99.6
Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1227	1257	68.26895	1215	1269	95.44997		123			99.7
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1228	1256	68.26895	1221	1270	95.44997		112.8			99.7
Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1224	1257	68.26895	1209	1268	95.44997		89			99.8
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1215	1257	68.26895	1204	1266	95.44997		52.2			99.5
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1228	1256	68.26895	1220	1270	95.44997		116.5			99.7
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1227	1256	68.26895	1218	1269	95.44997		122.6			99.7
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1229	1256	68.26895	1224	1274	95.44997		65.7			99.7
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1224	1257	68.26895	1209	1268	95.44997		87.2			99.7
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1215	1257	68.26895	1204	1266	95.44997		52.3			99.6
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1228	1256	68.26895	1221	1270	95.44997		109.4			99.7
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1227	1256	68.26895	1217	1269	95.44997		123.2			99.7
Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1227	1256	68.26895	1218	1269	95.44997		122.2			99.8
Last M1a R3 modChar							1245	1273	68.26895	1231	1280	95.44997					99
Boundary TS1 M1a Mod Char R3							1244	1275	68.26895	1230	1285	95.44997					98

1.11.5 - Dataset M1a; Run 4; Uniform Prior/10-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R4 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.3 Aoverall 83				
	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	1.34E-17	1	68.26895	1.34E-17	1	95.44997		100			99.6
Sequence																	
Boundary Model M1a							1209	1250	68.26895	1194	1260	95.44997					95.4
Phase																	
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1224	1258	68.26895	1212	1267	95.44997		98.1			99.5
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1228	1255	68.26895	1221	1268	95.44997		115.2			99.7
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1227	1255	68.26895	1220	1268	95.44997		117.4			99.6
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1227	1256	68.26895	1218	1268	95.44997		123.6			99.7
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1228	1255	68.26895	1220	1268	95.44997		116.3			99.5
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1228	1255	68.26895	1222	1269	95.44997		108.7			99.6
Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1220	1258	68.26895	1208	1266	95.44997		64.4			99.3
Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1228	1255	68.26895	1221	1268	95.44997		114.6			99.6

Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1228	1255	68.26895	1222	1269	95.44997		103.9			99.6
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1228	1255	68.26895	1220	1268	95.44997		116.8			99.7
Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1228	1255	68.26895	1222	1270	95.44997		96.4			99.6
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1228	1255	68.26895	1222	1270	95.44997		100.9			99.5
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1221	1258	68.26895	1209	1266	95.44997		68.6			99.2
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1216	1258	68.26895	1206	1265	95.44997		50.6			99.2
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1228	1255	68.26895	1223	1270	95.44997		86.2			99.5
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1228	1255	68.26895	1223	1270	95.44997		86.3			99.5
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1217	1258	68.26895	1206	1265	95.44997		53.4			99.1
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1226	1256	68.26895	1216	1268	95.44997		123.9			99.6
Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1226	1256	68.26895	1215	1268	95.44997		119			99.6
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1228	1255	68.26895	1220	1268	95.44997		115.8			99.6
Last M1a R4 modChar							1244	1271	68.26895	1229	1278	95.44997					98.2
Boundary TS1 M1a Mod Char R4							1243	1273	68.26895	1229	1282	95.44997					97

1.12.1 - Dataset M1a; Uniform Prior/Default Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model M1a");
    Phase()
    {
      Date(Prior("M1a","M1a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2a","M2a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3a","M3a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4a","M4a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5a","M5a.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6a","M6a.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7a","M7a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8a","M8a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9a","M9a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10a","M10a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11a","M11a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12a","M12a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13a","M13a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14a","M14a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15a","M15a.prior"))
{

```

```
    Outlier("Charcoal", 1);
};
Date(Prior("M16a","M16a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17a","M17a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18a","M18a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19a","M19a.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20a","M20a.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1a Char R1");
};
};
```


1.12.2 - Dataset M1a; Run 1; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 134 Aoverall 129.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-5	1	68.26895	-19	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	0.663	68.26895	3.60E-17	1.134	95.44997		100			99.5
Sequence																	
Boundary Model M1a							1224	1264	68.26895	1217	1269	95.44997					98.4
Phase																	
Prior M1a	1230	1285	68.26895	1221	1297	95.44997	1236	1275	68.26895	1230	1280	95.44997		89.2			99.6
Prior M2a	1229	1279	68.26895	1219	1289	95.44997	1236	1273	68.26895	1230	1279	95.44997		104.1			99.6
Prior M3a	1230	1285	68.26895	1221	1297	95.44997	1236	1275	68.26895	1230	1280	95.44997		88			99.5
Prior M4a	1233	1293	68.26895	1223	1377	95.44997	1236	1276	68.26895	1231	1281	95.44997		74.8			99.7
Prior M5a	1180	1264	68.26895	1163	1272	95.44997	1241	1269	68.26895	1228	1275	95.44997		113			99.6
Prior M6a	1222	1265	68.26895	1177	1278	95.44997	1239	1270	68.26895	1229	1276	95.44997		118.8			99.6
Prior M7a	1180	1264	68.26895	1164	1272	95.44997	1242	1269	68.26895	1228	1275	95.44997		115.2			99.6
Prior M8a	1226	1267	68.26895	1179	1280	95.44997	1238	1271	68.26895	1229	1277	95.44997		115.9			99.7
Prior M9a	1175	1259	68.26895	1053	1272	95.44997	1241	1269	68.26895	1227	1275	95.44997		90.3			99.7

Prior M10a	1183	1267	68.26895	1167	1273	95.44997	1241	1269	68.26895	1228	1276	95.44997		119.6			99.6
Prior M11a	1227	1273	68.26895	1181	1284	95.44997	1237	1272	68.26895	1230	1277	95.44997		112.6			99.6
Prior M12a	1228	1277	68.26895	1217	1287	95.44997	1237	1272	68.26895	1230	1278	95.44997		108.8			99.7
Prior M13a	1226	1268	68.26895	1179	1281	95.44997	1238	1271	68.26895	1229	1277	95.44997		115.3			99.7
Prior M14a	1180	1264	68.26895	1164	1272	95.44997	1241	1269	68.26895	1228	1275	95.44997		115.2			99.6
Prior M15a	1231	1289	68.26895	1222	1375	95.44997	1236	1275	68.26895	1231	1280	95.44997		82.3			99.7
Prior M16a	1225	1267	68.26895	1179	1280	95.44997	1238	1271	68.26895	1229	1277	95.44997		116.2			99.7
Prior M17a	1224	1266	68.26895	1179	1279	95.44997	1238	1271	68.26895	1229	1277	95.44997		116.8			99.7
Prior M18a	1226	1267	68.26895	1179	1280	95.44997	1238	1271	68.26895	1229	1277	95.44997		115.9			99.7
Prior M19a	1222	1266	68.26895	1177	1278	95.44997	1239	1270	68.26895	1229	1276	95.44997		118.5			99.7
Prior M20a	1228	1277	68.26895	1216	1287	95.44997	1237	1272	68.26895	1230	1278	95.44997		109.2			99.6
Boundary TS1 M1a Char R1							1260	1285	68.26895	1237	1289	95.44997					98.3

1.12.3 - Dataset M1a; Run 2; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R2	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices Amodel 90.8 Aoverall 75.4				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Outlier_Model Charcoal								-10	5	68.26895	-40	5	95.44997	-5					100
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997	-0.74							-0.73					100
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	1.515	0.225	1.212	68.26895	3.60E-17	1.419	95.44997	0.744		100			98.8
Sequence																			
Boundary Model M1a								1205	1255	68.26895	1180	1270	95.44997	1225					97.8
Phase																			
Prior M1a	1220	1270	68.26895	1175	1280	95.44997	1245	1230	1265	68.26895	1220	1280	95.44997	1250		112.9			99.8
Prior M2a	1220	1270	68.26895	1175	1280	95.44997	1240	1230	1265	68.26895	1215	1280	95.44997	1245		117.8			99.8
Prior M3a	1045	1220	68.26895	1040	1220	95.44997	1145	1210	1260	68.26895	1195	1275	95.44997	1235		62.6			99.5
Prior M4a	1260	1300	68.26895	1220	1380	95.44997	1275	1230	1270	68.26895	1225	1285	95.44997	1250		51.5			99.8
Prior M5a	1215	1270	68.26895	1165	1280	95.44997	1235	1225	1265	68.26895	1215	1280	95.44997	1245		120.4			99.8
Prior M6a	1225	1280	68.26895	1215	1290	95.44997	1260	1230	1265	68.26895	1220	1280	95.44997	1250		90.7			99.9
Prior M7a	1215	1270	68.26895	1165	1280	95.44997	1235	1225	1265	68.26895	1215	1280	95.44997	1245		119.9			99.9

Prior M8a	1160	1255	68.26895	1050	1270	95.44997	1200	1225	1265	68.26895	1200	1280	95.44997	1245		91.1			99.7
Prior M9a	1155	1225	68.26895	1045	1270	95.44997	1190	1220	1265	68.26895	1200	1280	95.44997	1240		78.3			99.7
Prior M10a	1225	1280	68.26895	1215	1290	95.44997	1250	1230	1265	68.26895	1220	1280	95.44997	1250		100.9			99.8
Prior M11a	1155	1225	68.26895	1045	1270	95.44997	1190	1220	1265	68.26895	1200	1280	95.44997	1240		80.3			99.7
Prior M12a	1225	1285	68.26895	1220	1295	95.44997	1265	1230	1265	68.26895	1220	1280	95.44997	1250		83.9			99.8
Prior M13a	1225	1285	68.26895	1215	1295	95.44997	1260	1230	1265	68.26895	1220	1280	95.44997	1250		89.7			99.8
Prior M14a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1265	68.26895	1200	1280	95.44997	1245		91.1			99.8
Prior M15a	1160	1255	68.26895	1050	1270	95.44997	1200	1220	1265	68.26895	1200	1280	95.44997	1245		91.1			99.7
Prior M16a	1220	1270	68.26895	1175	1280	95.44997	1245	1230	1265	68.26895	1220	1280	95.44997	1250		112.5			99.9
Prior M17a	1160	1255	68.26895	1050	1270	95.44997	1200	1225	1265	68.26895	1200	1280	95.44997	1245		92.5			99.8
Prior M18a	1225	1275	68.26895	1180	1285	95.44997	1245	1230	1265	68.26895	1220	1280	95.44997	1250		108.3			99.8
Prior M19a	1215	1270	68.26895	1165	1280	95.44997	1235	1225	1265	68.26895	1215	1280	95.44997	1245		119.2			99.8
Prior M20a	1225	1280	68.26895	1215	1290	95.44997	1250	1230	1265	68.26895	1220	1280	95.44997	1250		100.8			99.9
Boundary TS1 M1a Char R2								1245	1285	68.26895	1230	1295	95.44997	1265					98.9

1.12.4 - Dataset M1a; Run 3; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.1 Aoverall 89.2				
	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	0.102	1.293	68.26895	3.60E-17	1.431	95.44997		100			99.1
Sequence																	
Boundary Model M1a							1210	1249	68.26895	1191	1267	95.44997					97.8
Phase																	
Prior M1a	1225	1267	68.26895	1179	1280	95.44997	1232	1262	68.26895	1222	1276	95.44997		112.8			99.7
Prior M2a	1222	1265	68.26895	1177	1278	95.44997	1231	1263	68.26895	1220	1276	95.44997		117			99.7
Prior M3a	1229	1281	68.26895	1220	1291	95.44997	1232	1263	68.26895	1224	1278	95.44997		87.4			99.7
Prior M4a	1053	1221	68.26895	1045	1260	95.44997	1223	1261	68.26895	1205	1275	95.44997		70.8			99.7
Prior M5a	1227	1272	68.26895	1181	1283	95.44997	1232	1263	68.26895	1223	1276	95.44997		107.2			99.8
Prior M6a	1230	1283	68.26895	1221	1294	95.44997	1232	1263	68.26895	1225	1279	95.44997		79.7			99.7
Prior M7a	1226	1269	68.26895	1179	1281	95.44997	1232	1263	68.26895	1222	1277	95.44997		110.4			99.7
Prior M8a	1228	1277	68.26895	1216	1287	95.44997	1232	1263	68.26895	1223	1277	95.44997		100.8			99.8

Prior M9a	1181	1265	68.26895	1165	1272	95.44997	1230	1263	68.26895	1216	1276	95.44997		121.2			99.8
Prior M10a	1226	1267	68.26895	1179	1280	95.44997	1232	1262	68.26895	1222	1276	95.44997		112.3			99.7
Prior M11a	1164	1252	68.26895	1052	1268	95.44997	1227	1263	68.26895	1209	1275	95.44997		91.1			99.7
Prior M12a	1052	1216	68.26895	1040	1222	95.44997	1218	1260	68.26895	1204	1274	95.44997		66.4			99.6
Prior M13a	1223	1266	68.26895	1178	1279	95.44997	1231	1263	68.26895	1221	1276	95.44997		115.7			99.8
Prior M14a	1218	1266	68.26895	1168	1276	95.44997	1231	1263	68.26895	1218	1276	95.44997		120.9			99.8
Prior M15a	1231	1287	68.26895	1221	1298	95.44997	1232	1263	68.26895	1225	1279	95.44997		69.4			99.7
Prior M16a	1164	1252	68.26895	1052	1268	95.44997	1227	1262	68.26895	1209	1275	95.44997		89.7			99.7
Prior M17a	1052	1216	68.26895	1040	1222	95.44997	1218	1260	68.26895	1204	1274	95.44997		66.4			99.6
Prior M18a	1226	1270	68.26895	1180	1282	95.44997	1232	1263	68.26895	1222	1277	95.44997		109.4			99.7
Prior M19a	1217	1267	68.26895	1168	1275	95.44997	1231	1263	68.26895	1218	1276	95.44997		121.5			99.7
Prior M20a	1218	1266	68.26895	1168	1276	95.44997	1231	1263	68.26895	1219	1276	95.44997		120.7			99.8
Last M1a R3 Char							1249	1278	68.26895	1233	1286	95.44997					98.5
Boundary TS1 M1a Char R3							1249	1280	68.26895	1233	1291	95.44997					97.3

1.12.5 - Dataset M1a; Run 4; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1a R4 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 105.8 Aoverall 95.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-8	1	68.26895	-35	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	0.042	1.164	68.26895	3.60E-17	1.392	95.44997		100			98.4
Sequence																	
Boundary Model M1a							1211	1247	68.26895	1192	1264	95.44997					96.6
Phase																	
Prior M1a	1167	1254	68.26895	1053	1270	95.44997	1227	1261	68.26895	1211	1273	95.44997		99			99.6
Prior M2a	1224	1266	68.26895	1178	1279	95.44997	1231	1261	68.26895	1221	1274	95.44997		114.5			99.6
Prior M3a	1222	1266	68.26895	1177	1279	95.44997	1230	1261	68.26895	1220	1274	95.44997		116.6			99.6
Prior M4a	1217	1267	68.26895	1168	1275	95.44997	1230	1261	68.26895	1218	1274	95.44997		122			99.6
Prior M5a	1223	1266	68.26895	1178	1279	95.44997	1231	1261	68.26895	1220	1274	95.44997		115.5			99.6
Prior M6a	1227	1270	68.26895	1180	1282	95.44997	1231	1261	68.26895	1222	1274	95.44997		108.7			99.7
Prior M7a	1055	1223	68.26895	1047	1264	95.44997	1223	1260	68.26895	1207	1272	95.44997		72			99.4
Prior M8a	1224	1266	68.26895	1179	1279	95.44997	1231	1261	68.26895	1221	1274	95.44997		114			99.6

Prior M9a	1228	1274	68.26895	1182	1285	95.44997	1231	1260	68.26895	1222	1275	95.44997		104.5			99.6
Prior M10a	1223	1266	68.26895	1178	1279	95.44997	1231	1261	68.26895	1220	1274	95.44997		116			99.6
Prior M11a	1229	1277	68.26895	1217	1287	95.44997	1231	1261	68.26895	1223	1275	95.44997		97.5			99.6
Prior M12a	1228	1276	68.26895	1215	1287	95.44997	1231	1261	68.26895	1223	1275	95.44997		101.6			99.7
Prior M13a	1159	1224	68.26895	1048	1266	95.44997	1224	1260	68.26895	1207	1273	95.44997		74.9			99.5
Prior M14a	1053	1217	68.26895	1040	1223	95.44997	1218	1260	68.26895	1205	1272	95.44997		63.6			99.4
Prior M15a	1229	1280	68.26895	1220	1290	95.44997	1231	1261	68.26895	1224	1276	95.44997		88.2			99.6
Prior M16a	1229	1280	68.26895	1220	1290	95.44997	1231	1261	68.26895	1224	1276	95.44997		88.1			99.6
Prior M17a	1053	1219	68.26895	1040	1252	95.44997	1218	1260	68.26895	1205	1272	95.44997		65.7			99.4
Prior M18a	1181	1265	68.26895	1165	1272	95.44997	1229	1261	68.26895	1216	1274	95.44997		122.1			99.6
Prior M19a	1179	1262	68.26895	1161	1272	95.44997	1228	1261	68.26895	1214	1274	95.44997		117.6			99.6
Prior M20a	1224	1266	68.26895	1178	1279	95.44997	1231	1261	68.26895	1221	1274	95.44997		115.1			99.6
Last M1a R4 Char							1248	1275	68.26895	1231	1283	95.44997					98.8
Boundary TS1 M1a Char R4							1249	1277	68.26895	1231	1287	95.44997					96.9

1.13.1 - Dataset M1b; Combine Model; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Combine(TS1_M1b_R1)  
{  
  Date(Prior("M1b","M1b.prior"));  
  Date(Prior("M2b","M2b.prior"));  
  Date(Prior("M3b","M3b.prior"));  
  Date(Prior("M4b","M4b.prior"));  
  Date(Prior("M5b","M5b.prior"));  
  Date(Prior("M6b","M6b.prior"));  
  Date(Prior("M7b","M7b.prior"));  
  Date(Prior("M8b","M8b.prior"));  
  Date(Prior("M9b","M9b.prior"));  
  Date(Prior("M10b","M10b.prior"));  
  Date(Prior("M11b","M11b.prior"));  
  Date(Prior("M12b","M12b.prior"));  
  Date(Prior("M13b","M13b.prior"));  
  Date(Prior("M14b","M14b.prior"));  
  Date(Prior("M15b","M15b.prior"));  
  Date(Prior("M16b","M16b.prior"));  
  Date(Prior("M17b","M17b.prior"));  
  Date(Prior("M18b","M18b.prior"));  
  Date(Prior("M19b","M19b.prior"));  
  Date(Prior("M20b","M20b.prior"));  
};
```

1.13.2 - Dataset M1b; Run 1; Combine Model; Table of Distributions

Name: TS1 M1b R1 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1b_R1	1179	1218	68.26895	1177	1219	95.44997							0.2				
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1179	1218	68.26895	1177	1219	95.44997		2.6			
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1179	1218	68.26895	1177	1219	95.44997		41.6			
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1179	1218	68.26895	1177	1219	95.44997		86.7			
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1179	1218	68.26895	1177	1219	95.44997		69.3			
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1179	1218	68.26895	1177	1219	95.44997		74.5			
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1179	1218	68.26895	1177	1219	95.44997		133.1			
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1179	1218	68.26895	1177	1219	95.44997		113.3			
Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1179	1218	68.26895	1177	1219	95.44997		41.1			
Prior M9b	995	1146	68.26895	992	1157	95.44997	1179	1218	68.26895	1177	1219	95.44997		0.3			
Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1179	1218	68.26895	1177	1219	95.44997		77.5			
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1179	1218	68.26895	1177	1219	95.44997		61.5			
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1179	1218	68.26895	1177	1219	95.44997		133			
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1179	1218	68.26895	1177	1219	95.44997		123.6			
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1179	1218	68.26895	1177	1219	95.44997		1.6			
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1179	1218	68.26895	1177	1219	95.44997		11.4			
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1179	1218	68.26895	1177	1219	95.44997		1.5			
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1179	1218	68.26895	1177	1219	95.44997		79.8			
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1179	1218	68.26895	1177	1219	95.44997		10.2			

Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1179	1218	68.26895	1177	1219	95.44997		18.9			
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1179	1218	68.26895	1177	1219	95.44997		25.5			

1.13.3 - Dataset M1b; Run 2; Combine Model; Table of Distributions

Name: TS1 M1b R2 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1b_R2	1179	1217	68.26895	1177	1219	95.44997							0.4				
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1179	1217	68.26895	1177	1219	95.44997		8.4			
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1179	1217	68.26895	1177	1219	95.44997		130.6			
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1179	1217	68.26895	1177	1219	95.44997		10.6			
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1179	1217	68.26895	1177	1219	95.44997		124.5			
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1179	1217	68.26895	1177	1219	95.44997		140.9			
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1179	1217	68.26895	1177	1219	95.44997		51.7			
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1179	1217	68.26895	1177	1219	95.44997		117.9			
Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1179	1217	68.26895	1177	1219	95.44997		141.3			
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1179	1217	68.26895	1177	1219	95.44997		91.4			
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1179	1217	68.26895	1177	1219	95.44997		141.2			
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1179	1217	68.26895	1177	1219	95.44997		30.4			
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1179	1217	68.26895	1177	1219	95.44997		85.6			
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1179	1217	68.26895	1177	1219	95.44997		22.6			
Prior M14b	993	1117	68.26895	977	1156	95.44997	1179	1217	68.26895	1177	1219	95.44997		0.1			

Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1179	1217	68.26895	1177	1219	95.44997		0.1			
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1179	1217	68.26895	1177	1219	95.44997		94			
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1179	1217	68.26895	1177	1219	95.44997		67.6			
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1179	1217	68.26895	1177	1219	95.44997		37.1			
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1179	1217	68.26895	1177	1219			8.5			
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1179	1217	68.26895	1177	1219	95.44997		136.1			

1.13.4 - Dataset M1b; Run 3; Combine Model; Table of Distributions

Name: TS1 M1b R3 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1b_R3	1214	1221	68.26895	1180	1222	95.44997							10.5				
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1214	1221	68.26895	1180	1222	95.44997		149.2			
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1214	1221	68.26895	1180	1222	95.44997		147.7			
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1214	1221	68.26895	1180	1222	95.44997		72.3			
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1214	1221	68.26895	1180	1222	95.44997		148.2			
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1214	1221	68.26895	1180	1222	95.44997		148.3			
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1214	1221	68.26895	1180	1222	95.44997		12.2			
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1214	1221	68.26895	1180	1222	95.44997		147.7			

Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1214	1221	68.26895	1180	1222	95.44997		20.7			
Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1214	1221	68.26895	1180	1222	95.44997		7.4			
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1214	1221	68.26895	1180	1222	95.44997		39.1			
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1214	1221	68.26895	1180	1222	95.44997		9.6			
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1214	1221	68.26895	1180	1222	95.44997		116.8			
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1214	1221	68.26895	1180	1222	95.44997		71.9			
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1214	1221	68.26895	1180	1222	95.44997		123.3			
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1214	1221	68.26895	1180	1222	95.44997		125			
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1214	1221	68.26895	1180	1222	95.44997		146.2			
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1214	1221	68.26895	1180	1222	95.44997		18.9			
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1214	1221	68.26895	1180	1222	95.44997		69.3			
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1214	1221	68.26895	1180	1222	95.44997		34.6			
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1214	1221	68.26895	1180	1222	95.44997		135.4			

1.13.5 - Dataset M1b; Run 4; Combine Model; Table of Distributions

Name: TS1 M1b R4 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1b_R4	1179	1218	68.26895	1177	1218	95.44997							0.4				
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1179	1218	68.26895	1177	1218	95.44997		8.4			
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1179	1218	68.26895	1177	1218	95.44997		108			
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1179	1218	68.26895	1177	1218	95.44997		16.7			
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1179	1218	68.26895	1177	1218	95.44997		110			
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1179	1218	68.26895	1177	1218	95.44997		18.5			
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1179	1218	68.26895	1177	1218	95.44997		112.1			
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1179	1218	68.26895	1177	1218	95.44997		41.1			
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1179	1218	68.26895	1177	1218	95.44997		133.9			
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1179	1218	68.26895	1177	1218	95.44997		86.8			
Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1179	1218	68.26895	1177	1218	95.44997		126			
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1179	1218	68.26895	1177	1218	95.44997		138.2			

Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1179	1218	68.26895	1177	1218	95.44997		105.1			
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1179	1218	68.26895	1177	1218	95.44997		6.4			
Prior M14b	977	1029	68.26895	892	1114	95.44997	1179	1218	68.26895	1177	1218	95.44997					
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1179	1218	68.26895	1177	1218	95.44997		12.2			
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1179	1218	68.26895	1177	1218	95.44997		100.8			
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1179	1218	68.26895	1177	1218	95.44997		29.3			
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1179	1218	68.26895	1177	1218	95.44997		138.2			
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1179	1218	68.26895	1177	1218	95.44997		140.4			
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1179	1218	68.26895	1177	1218	95.44997		8.8			

1.14.1 - Dataset M1b; Exponential Prior/No Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b", "M1b.prior"));
      Date(Prior("M2b", "M2b.prior"));
      Date(Prior("M3b", "M3b.prior"));
      Date(Prior("M4b", "M4b.prior"));
      Date(Prior("M5b", "M5b.prior"));
      Date(Prior("M6b", "M6b.prior"));
      Date(Prior("M7b", "M7b.prior"));
      Date(Prior("M8b", "M8b.prior"));
      Date(Prior("M9b", "M9b.prior"));
      Date(Prior("M10b", "M10b.prior"));
      Date(Prior("M11b", "M11b.prior"));
      Date(Prior("M12b", "M12b.prior"));
      Date(Prior("M13b", "M13b.prior"));
      Date(Prior("M14b", "M14b.prior"));
      Date(Prior("M15b", "M15b.prior"));
      Date(Prior("M16b", "M16b.prior"));
      Date(Prior("M17b", "M17b.prior"));
      Date(Prior("M18b", "M18b.prior"));
      Date(Prior("M19b", "M19b.prior"));
      Date(Prior("M20b", "M20b.prior"));
    };
    Boundary("TS1 M1b Tau R1");
  };
};
```


};

1.14.2 - Dataset M1b; Run 1; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1b R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.5 Aoverall 91				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1b							1176	1211	68.26895	1148	1224	95.44997					98
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1223	1251	68.26895	1220	1274	95.44997		83.7			99.3
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1219	1254	68.26895	1179	1270	95.44997		108.3			99.2
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1213	1258	68.26895	1175	1267	95.44997		109.8			99
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1137	1219	68.26895	1051	1222	95.44997		92.1			98.9
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1151	1219	68.26895	1051	1223	95.44997		93.7			99.3
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1167	1221	68.26895	1054	1262	95.44997		109.9			99.3
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1163	1219	68.26895	1051	1255	95.44998		107			99
Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1126	1217	68.26895	1054	1220	95.44997		85.3			99
Prior M9b	995	1146	68.26895	992	1157	95.44997	1031	1156	68.26895	994	1162	95.44997		83.2			99
Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1214	1258	68.26895	1176	1267	95.44997		109.7			99.1

Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1135	1218	68.26895	1051	1222	95.44997		89.7			99.1
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1182	1252	68.26895	1165	1263	95.44997		106.6			99.2
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1167	1220	68.26895	1053	1259	95.44997		109.6			99.1
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1223	1251	68.26895	1220	1274	95.44997		74.5			99.2
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1222	1252	68.26895	1211	1275	95.44997		102.3			98.9
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1087	1157	68.26895	1021	1202	95.44997		96			99
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1153	1219	68.26895	1051	1224	95.44997		95.7			99.2
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1222	1251	68.26895	1213	1275	95.44997		101.6			99.3
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1221	1251	68.26895	1182	1274	95.44997		105.1			99.2
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1220	1253	68.26895	1181	1272	95.44997		106.5			99.2
Boundary TS1 M1b Tau R1							1241	1271	68.26895	1232	1282	95.44997					95.9

1.14.3 - Dataset M1b; Run 2; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1b R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 73.6 Aoverall 73.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	

Tau_Boundary Model M1b							1178	1210	68.26895	1151	1223	95.44997					99.1
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1091	1201	68.26895	1037	1216	95.44997		89.4			99.4
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1183	1249	68.26895	1165	1261	95.44997		108.6			99.5
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1094	1208	68.26895	1040	1217	95.44997		87.7			99.6
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1169	1220	68.26895	1054	1257	95.44997		110.8			99.6
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1178	1232	68.26895	1161	1260	95.44997		108.2			99.7
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1216	1253	68.26895	1178	1266	95.44997		107.4			99.7
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1201	1253	68.26895	1167	1262	95.44997		109.4			99.5
Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1178	1231	68.26895	1161	1260	95.44997		108.2			99.6
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1158	1219	68.26895	1051	1227	95.44997		99.5			99.6
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1174	1225	68.26895	1154	1262	95.44997		109.6			99.6
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1219	1250	68.26895	1179	1269	95.44997		105			99.7
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1209	1254	68.26895	1173	1265	95.44997		109.5			99.7
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1219	1250	68.26895	1181	1270	95.44997		103.7			99.7
Prior M14b	993	1117	68.26895	977	1156	95.44997	1022	1155	68.26895	993	1160	95.44997		67.2			99.4
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1223	1246	68.26895	1221	1275	95.44997		21.7			99.7
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1158	1219	68.26895	1051	1228	95.44997		100.5			99.5

Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1151	1218	68.26895	1052	1223	95.44997		90.5			99.4
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1218	1251	68.26895	1179	1269	95.44997		105.9			99.5
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1221	1247	68.26895	1211	1275	95.44997		97.3			99.4
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1172	1222	68.26895	1055	1262	95.44997		111.5			99.6
Boundary TS1 M1b Tau R2							1233	1264	68.26895	1227	1282	95.44997					97.9

2.14.4 - Dataset M1b; Run 3; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1b R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 94.5 Aoverall 91.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1b							1199	1220	68.26895	1179	1230	95.44997					97.2
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1186	1236	68.26895	1168	1255	95.44997		114.2			99.3
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1189	1233	68.26895	1167	1255	95.44997		113.2			99.2
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1173	1222	68.26895	1122	1252	95.44997		102			99.2

Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1199	1240	68.26895	1171	1257	95.44997		114.9			98.8
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1187	1234	68.26895	1167	1255	95.44997		113.5			99.4
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1220	1239	68.26895	1213	1265	95.44997		80.6			99.3
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1187	1234	68.26895	1166	1255	95.44997		113.1			99.1
Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1219	1240	68.26895	1208	1266	95.44997		90.3			99.3
Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1220	1239	68.26895	1214	1264	95.44997		68.8			99.3
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1218	1241	68.26895	1182	1264	95.44997		98.8			99.1
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1134	1219	68.26895	1076	1222	95.44997		64.2			98.8
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1185	1225	68.26895	1157	1252	95.44997		112.8			99.4
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1215	1243	68.26895	1180	1262	95.44997		106.7			99.4
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1185	1226	68.26895	1159	1252	95.44997		112.4			99.2
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1207	1243	68.26895	1177	1259	95.44997		114.8			99
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1191	1233	68.26895	1166	1254	95.44997		112.9			99.4
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1149	1220	68.26895	1073	1224	95.44997		66.8			99

Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1215	1243	68.26895	1180	1262	95.44997		106.1			99.2
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1156	1220	68.26895	1073	1227	95.44997		77.2			99.2
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1188	1229	68.26895	1163	1253	95.44997		111.9			99.4
Last M1b R3 Tau							1224	1249	68.26895	1221	1267	95.44997					98.3
Boundary TS1 M1b Tau R3							1224	1252	68.26895	1221	1270	95.44997					95.8

2.14.5 - Dataset M1b; Run 4; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1b R4 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 115.2 Aoverall 114.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1b							1176	1209	68.26895	1148	1221	95.44997					98.2
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1222	1247	68.26895	1210	1272	95.44997		98.1			99.1
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1203	1253	68.26895	1168	1262	95.44997		109.6			99.3
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1220	1249	68.26895	1181	1270	95.44997		102.9			99.4
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1161	1219	68.26895	1051	1252	95.44997		105.8			99

Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1220	1249	68.26895	1181	1269	95.44997		103.5			99.1
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1162	1219	68.26895	1051	1253	95.44997		106.7			99.1
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1127	1217	68.26895	1057	1220	95.44997		84			99.2
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1170	1221	68.26895	1055	1260	95.44997		111.6			99.3
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1209	1254	68.26895	1173	1264	95.44997		109.7			99.1
Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1169	1220	68.26895	1054	1256	95.44997		110.8			99.3
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1172	1222	68.26895	1055	1262	95.44997		111			99.2
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1204	1253	68.26895	1171	1262	95.44997		109.7			99.1
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1222	1247	68.26895	1214	1272	95.44997		95.3			99.2
Prior M14b	977	1029	68.26895	892	1114	95.44997	981	1149	68.26895	904	1155	95.44997		87.9			98.8
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1221	1248	68.26895	1182	1271	95.44997		101			99.3
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1159	1219	68.26895	1050	1229	95.44997		102.4			99.4
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1219	1251	68.26895	1180	1267	95.44997		105.9			99.2
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1172	1222	68.26895	1054	1262	95.44997		111.1			99.3
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1174	1223	68.26895	1135	1263	95.44997		110			99.1
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1090	1200	68.26895	1036	1215	95.44997		90.5			98.8
Last M1b R4 Tau							1235	1262	68.26895	1227	1271	95.44997					98.6
Boundary TS1 M1b Tau R4							1237	1265	68.26895	1228	1277	95.44997					95.3

1.15.1 - Dataset M1b; Exponential Prior/50-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1.7),"t");
  Sequence()
  {
    Tau_Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b","M1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2b","M2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3b","M3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4b","M4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5b","M5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6b","M6b.prior"))
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M7b","M7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8b","M8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9b","M9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10b","M10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11b","M11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12b","M12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13b","M13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14b","M14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15b","M15b.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16b", "M16b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17b", "M17b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18b", "M18b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19b", "M19b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20b", "M20b.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1b Tau Mod Char R1");
};
};

```

1.15.2 - Dataset M1b; Run 1; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R1 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.9 Aoverall 91.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	0	68.26895	-65	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			97.9
Sequence																	
Tau_Boundary Model M1b							1181	1227	68.26895	1155	1254	95.44997					97.6
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1230	1264	68.26895	1222	1283	95.44997		84.8			99.4
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1225	1264	68.26895	1184	1283	95.44997		107.2			99.3
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1219	1266	68.26895	1179	1279	95.44997		108.8			99.2
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1151	1241	68.26895	1063	1268	95.44997		92.2			98.9
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1153	1242	68.26895	1062	1270	95.44997		94			98.9
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1175	1243	68.26895	1072	1281	95.44997		111.1			99.2
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1164	1237	68.26895	1060	1277	95.44997		107.9			98.9

Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1127	1230	68.26895	1060	1264	95.44997		85			98.9
Prior M9b	995	1146	68.26895	992	1157	95.44997	1028	1171	68.26895	999	1261	95.44997		82.2			98.7
Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1220	1266	68.26895	1181	1279	95.44997		108.8			98.8
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1139	1240	68.26895	1062	1266	95.44997		89.7			98.7
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1205	1263	68.26895	1169	1276	95.44997		107			99.3
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1168	1238	68.26895	1064	1279	95.44997		110.4			99.1
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1230	1266	68.26895	1223	1283	95.44997		76.3			99.5
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1229	1263	68.26895	1216	1285	95.44997		101.7			99.5
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1085	1179	68.26895	1029	1259	95.44997		95.7			99.1
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1155	1241	68.26895	1063	1271	95.44997		95.9			99
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1229	1263	68.26895	1217	1285	95.44997		101.1			99.4
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1228	1263	68.26895	1206	1286	95.44997		104.3			99.5
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1227	1264	68.26895	1186	1285	95.44997		105.4			99.4
Boundary TS1 M1b Tau Mod Char R1							1249	1281	68.26895	1236	1295	95.44997					97.4

2.15.3 - Dataset M1b; Run 2; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R2 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 78.5 Aoverall 78				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-13	0	68.26895	-65	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	0.3094	1.7	68.26895	3.47E-18	1.7	95.44997		100			98.3
Sequence																	
Tau_Boundary Model M1b							1183	1227	68.26895	1159	1253	95.44997					97.8
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1102	1219	68.26895	1046	1259	95.44997		89			98.9
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1204	1260	68.26895	1170	1275	95.44997		108.9			99.1
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1104	1220	68.26895	1049	1260	95.44997		87.3			98.8
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1173	1241	68.26895	1069	1279	95.44997		111.8			99.1
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1198	1257	68.26895	1165	1275	95.44997		109.1			99
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1221	1262	68.26895	1184	1279	95.44997		106.2			98.9
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1208	1262	68.26895	1173	1276	95.44997		109.1			99.1

Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1193	1255	68.26895	1165	1275	95.44997		109.1			99.2
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1161	1240	68.26895	1066	1272	95.44997		100			99.1
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1188	1249	68.26895	1159	1277	95.44997		110.7			99.3
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1223	1260	68.26895	1185	1282	95.44997		103.8			99.1
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1217	1263	68.26895	1180	1278	95.44997		108.5			98.9
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1224	1260	68.26895	1188	1285	95.44997		102.8			99.2
Prior M14b	993	1117	68.26895	977	1156	95.44997	1020	1172	68.26895	997	1261	95.44997		65.4			98.5
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1227	1260	68.26895	1224	1286	95.44997		27.9			98.7
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1162	1237	68.26895	1063	1273	95.44997		101			99
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1154	1239	68.26895	1065	1268	95.44997		90.7			98.9
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1223	1261	68.26895	1185	1281	95.44997		104.5			99.2
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1226	1258	68.26895	1216	1285	95.44997		97.2			98.9
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1181	1244	68.26895	1137	1282	95.44997		112.6			99
Boundary TS1 M1b Tau Mod Char R2							1240	1275	68.26895	1231	1294	95.44997					97

1.15.4 - Dataset M1b; Run 3; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R3 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96 Aoverall 93.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-11	0	68.26895	-49	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	0.2125	1.4263	68.26895	3.47E-18	1.5487	95.44997		100			98.8
Sequence																	
Tau_Boundary Model M1b							1203	1233	68.26895	1186	1253	95.44997					98
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1208	1250	68.26895	1176	1267	95.44997		113.8			98.9
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1205	1249	68.26895	1174	1266	95.44997		113.2			99.2
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1188	1241	68.26895	1137	1268	95.44997		103.4			99
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1210	1251	68.26895	1178	1268	95.44997		114.2			99.4
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1206	1250	68.26895	1176	1267	95.44997		113.5			99.1
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1223	1248	68.26895	1217	1273	95.44997		83			99.3
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1205	1250	68.26895	1175	1267	95.44997		113.3			99.1

Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1223	1248	68.26895	1214	1273	95.44997		92.1			99.3
Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1224	1247	68.26895	1219	1271	95.44997		71.5			99.2
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1222	1249	68.26895	1206	1274	95.44997		99.3			98.9
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1146	1240	68.26895	1087	1263	95.44997		64			98.4
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1195	1242	68.26895	1164	1264	95.44997		114.3			98.8
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1220	1250	68.26895	1188	1272	95.44997		106			99.2
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1196	1243	68.26895	1166	1264	95.44997		113.7			98.9
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1215	1252	68.26895	1183	1269	95.44997		113.2			99.4
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1204	1249	68.26895	1174	1266	95.44997		113.2			99
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1157	1241	68.26895	1097	1266	95.44997		66.9			98.5
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1220	1250	68.26895	1187	1272	95.44997		105.4			99.1
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1173	1242	68.26895	1101	1267	95.44997		77.8			99.3
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1200	1246	68.26895	1170	1265	95.44997		113			99
Last M1b R3 TmC							1229	1258	68.26895	1224	1275	95.44997					98
Boundary TS1 M1b Tau Mod Char R3							1229	1260	68.26895	1224	1279	95.44997					96.8

1.15.5 - Dataset M1b; Run 4; Exponential Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R4 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 113.8 Aoverall 112.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-11	0	68.26895	-57	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	1.241	68.26895	3.47E- 18	1.649	95.44997		100			98
Sequence																	
Tau_Boundary Model M1b							1179	1223	68.26895	1155	1250	95.44997					98.3
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1227	1257	68.26895	1215	1281	95.44997		97.7			99.2
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1211	1261	68.26895	1174	1273	95.44997		109.1			99.1
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1225	1258	68.26895	1187	1281	95.44997		102			99.2
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1163	1234	68.26895	1060	1271	95.44997		106.5			99.1
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1225	1258	68.26895	1186	1281	95.44997		102.6			99.1
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1164	1233	68.26895	1061	1271	95.44997		107.4			98.9
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1130	1229	68.26895	1062	1259	95.44997		83.7			98.9

Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1174	1237	68.26895	1075	1276	95.44997		112.7			99.1
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1216	1262	68.26895	1178	1274	95.44997		108.7			99.2
Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1170	1235	68.26895	1063	1273	95.44997		111.7			99.1
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1179	1241	68.26895	1135	1277	95.44997		112.2			99
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1212	1261	68.26895	1175	1273	95.44997		109.1			99.2
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1227	1257	68.26895	1218	1280	95.44997		95.1			99.4
Prior M14b	977	1029	68.26895	892	1114	95.44997	982	1157	68.26895	960	1260	95.44997		84.7			98.8
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1226	1257	68.26895	1209	1281	95.44997		100.4			99.1
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1161	1234	68.26895	1062	1268	95.44997		103			99
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1224	1259	68.26895	1184	1278	95.44997		104.4			99.2
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1178	1240	68.26895	1135	1278	95.44997		112.3			99
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1183	1247	68.26895	1156	1275	95.44997		111.3			99
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1097	1214	68.26895	1045	1254	95.44997		89.8			98.8
Last M1b R4 TmodC							1241	1270	68.26895	1231	1283	95.44997					98.3
Boundary TS1 M1b Tau Mod Char R4							1243	1274	68.26895	1232	1287	95.44997					97.3

1.16.1 - Dataset M1b; Exponential Prior/Default Charcoal Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b","M1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2b","M2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3b","M3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4b","M4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5b","M5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6b","M6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7b","M7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8b","M8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9b","M9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10b","M10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11b","M11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12b","M12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13b","M13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14b","M14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15b","M15b.prior"))
{

```

```
    Outlier("Charcoal", 1);
};
Date(Prior("M16b", "M16b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17b", "M17b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18b", "M18b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19b", "M19b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20b", "M20b.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1b Tau and Char R1");
};
};
```

1.16.2 - Dataset M1b; Run 1; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1b R1 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93.2 Aoverall 91.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-87	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	0.039	1.746	68.26895	3.60E-17	1.803	95.44997		100			99.1
Sequence																	
Tau_Boundary Model M1b							1179	1232	68.26895	1156	1268	95.44997					99.5
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1231	1266	68.26895	1223	1285	95.44997		85.2			99.9
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1226	1266	68.26895	1185	1286	95.44997		107.1			99.8
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1220	1267	68.26895	1181	1283	95.44997		108.8			99.8
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1153	1254	68.26895	1065	1281	95.44997		92.4			99.6
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1155	1252	68.26895	1065	1281	95.44997		94.2			99.6
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1180	1254	68.26895	1075	1288	95.44997		111.1			99.7
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1166	1251	68.26895	1061	1286	95.44997		107.8			99.7
Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1131	1252	68.26895	1064	1278	95.44997		85.2			99.6
Prior M9b	995	1146	68.26895	992	1157	95.44997	1027	1253	68.26895	1000	1280	95.44997		82.5			99.6

Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1221	1267	68.26895	1182	1283	95.44997		108.7			99.8
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1150	1255	68.26895	1067	1281	95.44997		89.9			99.6
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1207	1266	68.26895	1170	1281	95.44997		107			99.8
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1172	1253	68.26895	1068	1287	95.44997		110.4			99.7
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1231	1268	68.26895	1224	1285	95.44997		76.9			99.8
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1230	1266	68.26895	1217	1288	95.44997		101.7			99.8
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1084	1259	68.26895	1029	1279	95.44997		95.9			99.6
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1157	1251	68.26895	1065	1282	95.44997		96			99.7
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1230	1266	68.26895	1218	1287	95.44997		101.1			99.8
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1229	1266	68.26895	1209	1289	95.44997		104.3			99.8
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1228	1266	68.26895	1189	1289	95.44997		105.3			99.8
Boundary TS1 M1b Tau and Char R1							1250	1283	68.26895	1237	1297	95.44997					99.5

1.16.3 - Dataset M1b; Run 2; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1b R2 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 80.2 Aoverall 79.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-17	1	68.26895	-83	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	0.132	1.755	68.26895	3.60E-17	1.779	95.44997		100			97.7
Sequence																	
Tau_Boundary Model M1b							1184	1235	68.26895	1165	1264	95.44997					98.6
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1103	1247	68.26895	1048	1272	95.44997		89.7			98.9
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1207	1263	68.26895	1171	1279	95.44997		108.7			99.2
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1105	1246	68.26895	1051	1272	95.44997		88			98.9
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1177	1249	68.26895	1072	1285	95.44997		111.7			99.3
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1201	1261	68.26895	1166	1278	95.44997		108.8			99.4
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1222	1264	68.26895	1184	1282	95.44997		106.2			99.5
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1212	1264	68.26895	1174	1280	95.44997		108.9			99.4

Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1200	1261	68.26895	1165	1278	95.44997		108.9			99.3
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1164	1245	68.26895	1067	1280	95.44997		100			99.1
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1192	1256	68.26895	1160	1281	95.44997		110.5			99.3
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1225	1263	68.26895	1187	1286	95.44997		104.2			99.4
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1218	1265	68.26895	1180	1281	95.44997		108.3			99.5
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1225	1262	68.26895	1203	1288	95.44997		103			99.3
Prior M14b	993	1117	68.26895	977	1156	95.44997	1021	1256	68.26895	997	1272	95.44997		66.3			98.7
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1228	1273	68.26895	1224	1288	95.44997		30			99
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1165	1246	68.26895	1065	1280	95.44997		101			99.2
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1157	1249	68.26895	1068	1276	95.44997		91			99
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1224	1263	68.26895	1186	1285	95.44997		104.9			99.3
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1227	1261	68.26895	1217	1288	95.44997		97.7			99.5
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1185	1251	68.26895	1139	1288	95.44997		112.6			99.3
Boundary TS1 M1b Tau and Char R2							1241	1278	68.26895	1232	1296	95.44997					98.1

1.16.4 - Dataset M1b; Run 3; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1b R3 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.5 Aoverall 94.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-11	1	68.26895	-53	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	0.285	1.452	68.26895	3.60E-17	1.59	95.44997		100			97.7
Sequence																	
Tau_Boundary Model M1b							1203	1233	68.26895	1187	1256	95.44997					98
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1208	1251	68.26895	1178	1268	95.44997		113.7			98.2
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1206	1251	68.26895	1175	1268	95.44997		113.2			99
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1188	1242	68.26895	1138	1270	95.44997		103.4			98.9
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1210	1252	68.26895	1179	1268	95.44997		114.2			98.6
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1206	1251	68.26895	1176	1268	95.44997		113.1			98.8
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1223	1248	68.26895	1218	1273	95.44997		83.6			98.5
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1206	1251	68.26895	1175	1267	95.44997		113.2			98.7
Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1223	1248	68.26895	1215	1274	95.44997		92.6			98.7

Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1224	1248	68.26895	1220	1272	95.44997		72.1			98.7
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1222	1250	68.26895	1207	1275	95.44997		99.7			99.1
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1146	1241	68.26895	1093	1267	95.44997		64.6			97.7
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1194	1243	68.26895	1164	1266	95.44997		113.8			98.3
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1220	1252	68.26895	1187	1273	95.44997		106.3			98.8
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1196	1244	68.26895	1166	1266	95.44997		113.7			98.8
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1216	1253	68.26895	1184	1269	95.44997		113.4			98
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1205	1250	68.26895	1174	1268	95.44997		113.1			99
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1156	1241	68.26895	1098	1268	95.44997		67.4			98.5
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1220	1252	68.26895	1191	1273	95.44997		105.7			98.5
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1173	1244	68.26895	1103	1271	95.44997		78			98.2
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1200	1247	68.26895	1170	1266	95.44997		112.9			98.7
Last M1b R3 TandC							1229	1258	68.26895	1224	1275	95.44997					97.8
Boundary TS1 M1b Tau and Char R3							1230	1260	68.26895	1224	1278	95.44997					96.4

1.16.5 - Dataset M1b; Run 4; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1b R4 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 114.2 Aoverall 113.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-14	1	68.26895	-75	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	1.629	68.26895	3.60E-17	1.788	95.44997		100			97.3
Sequence																	
Tau_Boundary Model M1b							1177	1227	68.26895	1156	1262	95.44997					97.6
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1227	1260	68.26895	1217	1283	95.44997		98			98.3
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1213	1264	68.26895	1176	1276	95.44997		109			98.3
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1226	1260	68.26895	1205	1283	95.44997		102			99
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1164	1241	68.26895	1064	1278	95.44997		106.5			98.5
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1226	1260	68.26895	1205	1283	95.44997		102.7			98.7
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1165	1243	68.26895	1064	1278	95.44997		107.2			98.4
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1132	1240	68.26895	1067	1272	95.44997		84.1			97.6
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1177	1249	68.26895	1076	1281	95.44997		112.5			98.6
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1217	1264	68.26895	1179	1277	95.44997		108.7			98.3

Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1172	1246	68.26895	1068	1280	95.44997		111.5			98.4
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1183	1251	68.26895	1151	1283	95.44997		112.2			98.3
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1214	1263	68.26895	1176	1277	95.44997		109			98.3
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1227	1259	68.26895	1219	1281	95.44997		95.4			98.8
Prior M14b	977	1029	68.26895	892	1114	95.44997	982	1255	68.26895	962	1276	95.44997		86.1			97.7
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1227	1260	68.26895	1212	1283	95.44997		100.5			98.7
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1162	1243	68.26895	1063	1277	95.44997		103			98.2
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1225	1261	68.26895	1185	1281	95.44997		104.3			98.5
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1184	1252	68.26895	1150	1283	95.44997		112.1			98.3
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1187	1253	68.26895	1157	1279	95.44997		111.3			98.9
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1094	1219	68.26895	1048	1271	95.44997		90.3			98.1
Last M1b R4 TandC							1242	1272	68.26895	1231	1285	95.44997					98.1
Boundary TS1 M1b Tau and Char R2							1245	1275	68.26895	1233	1289	95.44997					97.3

1.17.1 - Dataset M1b; Uniform Prior/No Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b", "M1b.prior"));
      Date(Prior("M2b", "M2b.prior"));
      Date(Prior("M3b", "M3b.prior"));
      Date(Prior("M4b", "M4b.prior"));
      Date(Prior("M5b", "M5b.prior"));
      Date(Prior("M6b", "M6b.prior"));
      Date(Prior("M7b", "M7b.prior"));
      Date(Prior("M8b", "M8b.prior"));
      Date(Prior("M9b", "M9b.prior"));
      Date(Prior("M10b", "M10b.prior"));
      Date(Prior("M11b", "M11b.prior"));
      Date(Prior("M12b", "M12b.prior"));
      Date(Prior("M13b", "M13b.prior"));
      Date(Prior("M14b", "M14b.prior"));
      Date(Prior("M15b", "M15b.prior"));
      Date(Prior("M16b", "M16b.prior"));
      Date(Prior("M17b", "M17b.prior"));
      Date(Prior("M18b", "M18b.prior"));
      Date(Prior("M19b", "M19b.prior"));
      Date(Prior("M20b", "M20b.prior"));
    };
    Boundary("TS1 M1b Uniform R1");
  };
};
```

};

1.17.2 - Dataset M1b; Run 1; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1b R1 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 89.7 Aoverall 88.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1b							1103	1149	68.26895	1039	1155	95.44997					97.3
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1225	1272	68.26895	1220	1280	95.44997		90.9			99.7
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1218	1262	68.26895	1175	1273	95.44997		100.8			99.7
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1180	1261	68.26895	1166	1266	95.44997		102.4			99.7
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1136	1211	68.26895	1076	1222	95.44997		96.1			99.7
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1146	1213	68.26895	1075	1222	95.44997		97.7			99.8
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1163	1215	68.26895	1125	1260	95.44997		113.7			99.8
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1157	1213	68.26895	1070	1253	95.44997		110.2			99.8
Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1127	1203	68.26895	1079	1220	95.44997		89.6			99.6
Prior M9b	995	1146	68.26895	992	1157	95.44997	1123	1157	68.26895	1080	1199	95.44997		66.3			99.6

Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1181	1262	68.26895	1167	1267	95.44997		101.9			99.8
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1134	1209	68.26895	1076	1221	95.44997		94			99.8
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1167	1229	68.26895	1160	1263	95.44997		106.2			99.7
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1159	1213	68.26895	1074	1258	95.44997		112.7			99.8
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1225	1274	68.26895	1220	1280	95.44997		85.6			99.8
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1222	1260	68.26895	1180	1278	95.44997		100			99.7
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1122	1159	68.26895	1081	1201	95.44997		89.6			99.6
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1149	1213	68.26895	1074	1222	95.44997		99.3			99.7
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1223	1261	68.26895	1180	1279	95.44997		99.9			99.7
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1222	1259	68.26895	1179	1276	95.44997		100.8			99.8
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1221	1260	68.26895	1177	1275	95.44997		100.8			99.7
Boundary TS1 M1b Uniform R1							1256	1286	68.26895	1238	1302	95.44997					98.7

1.17.3 - Dataset M1b; Run 2; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1b R2 Uniform	Unmodell ed (BC/AD)						Modelled (BC/AD)						Indices Amodel 76.5 Aoverall 75.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1b							1114	1151	68.26895	1055	1161	95.44997					97.8
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1124	1166	68.26895	1102	1213	95.44997		86.6			99.6
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1168	1229	68.26895	1161	1261	95.44997		107.1			99.8
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1124	1198	68.26895	1103	1214	95.44997		86			99.6
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1160	1213	68.26895	1123	1253	95.44997		115.3			99.8
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1167	1222	68.26895	1157	1260	95.44997		110.3			99.8
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1214	1262	68.26895	1168	1269	95.44997		99.7			99.7
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1176	1251	68.26895	1162	1263	95.44997		105.2			99.8
Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1167	1222	68.26895	1157	1259	95.44997		110.6			99.8
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1153	1213	68.26895	1113	1224	95.44997		104.3			99.8
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1168	1218	68.26895	1152	1260	95.44997		113.6			99.8

Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1218	1260	68.26895	1176	1274	95.44997		99.2			99.7
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1180	1257	68.26895	1166	1265	95.44997		101.9			99.7
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1219	1258	68.26895	1177	1275	95.44997		99.1			99.7
Prior M14b	993	1117	68.26895	977	1156	95.44997	1132	1158	68.26895	1087	1199	95.44997		38			99.5
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1225	1280	68.26895	1222	1286	95.44997		46.7			99.4
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1153	1212	68.26895	1113	1225	95.44997		105.3			99.7
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1146	1211	68.26895	1101	1222	95.44997		95.3			99.7
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1217	1261	68.26895	1175	1272	95.44997		99.3			99.7
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1221	1257	68.26895	1181	1279	95.44997		97.4			99.7
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1165	1215	68.26895	1133	1257	95.44997		116			99.8
Boundary TS1 M1b Uniform R2							1248	1285	68.26895	1232	1302	95.44997					98.5

1.17.4 - Dataset M1b; Run 3; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1b R3 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 83.6 Aoverall 79.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1b							1156	1199	68.26895	1136	1214	95.44997					97.5
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1184	1229	68.26895	1167	1254	95.44997		117			99.8
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1185	1227	68.26895	1167	1252	95.44997		117.9			99.8
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1188	1219	68.26895	1156	1225	95.44997		108.2			99.8
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1184	1231	68.26895	1168	1255	95.44997		115.6			99.8
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1186	1227	68.26895	1167	1253	95.44997		117.7			99.7
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1220	1243	68.26895	1209	1274	95.44997		82.8			99.7
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1185	1227	68.26895	1166	1252	95.44997		117.9			99.8
Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1219	1244	68.26895	1182	1271	95.44997		90			99.7
Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1220	1243	68.26895	1214	1273	95.44997		72.9			99.7

Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1216	1246	68.26895	1180	1267	95.44997		94.8			99.7
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1174	1218	68.26895	1151	1220	95.44997		34.9			99.7
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1187	1221	68.26895	1158	1247	95.44997		122			99.8
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1211	1248	68.26895	1179	1262	95.44997		99.5			99.7
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1186	1222	68.26895	1160	1248	95.44997		121.6			99.8
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1185	1243	68.26895	1174	1260	95.44997		109.1			99.8
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1185	1226	68.26895	1166	1252	95.44997		118.4			99.8
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1187	1218	68.26895	1153	1221	95.44997		50.2			99.7
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1211	1248	68.26895	1179	1262	95.44997		99.2			99.7
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1187	1219	68.26895	1154	1222	95.44997		71.7			99.7
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1186	1223	68.26895	1164	1248	95.44997		120.2			99.8
Last M1b R3 Uniform							1227	1258	68.26895	1222	1273	95.44997					99.2
Boundary TS1 M1b Uniform R3							1229	1262	68.26895	1222	1281	95.44997					98.2

1.17.5 - Dataset M1b; Run 4; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1b R4 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 57.7 Aoverall 58.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1b							1123	1152	68.26895	1080	1160	95.44997					97.6
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1221	1252	68.26895	1180	1276	95.44997		96.1			99.8
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1178	1248	68.26895	1163	1261	95.44997		104.6			99.8
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1220	1254	68.26895	1178	1273	95.44997		98.2			99.6
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1156	1212	68.26895	1122	1225	95.44997		112			99.8
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1219	1255	68.26895	1177	1273	95.44997		98.3			99.7
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1157	1212	68.26895	1123	1226	95.44997		112.8			99.8
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1137	1203	68.26895	1117	1219	95.44997		86.1			99.8
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1163	1214	68.26895	1132	1253	95.44997		117.7			99.8
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1179	1254	68.26895	1165	1263	95.44997		102.2			99.8
Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1160	1213	68.26895	1126	1250	95.44997		116.9			99.8

Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1166	1215	68.26895	1147	1255	95.44997		116.9			99.8
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1178	1249	68.26895	1163	1261	95.44997		104.3			99.8
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1221	1252	68.26895	1181	1277	95.44997		94.3			99.7
Prior M14b	977	1029	68.26895	892	1114	95.44997	1139	1156	68.26895	1105	1162	95.44997		4.6			99.5
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1220	1253	68.26895	1179	1274	95.44997		97.6			99.6
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1155	1212	68.26895	1122	1223	95.44997		108.6			99.8
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1218	1257	68.26895	1175	1270	95.44997		98.6			99.7
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1166	1215	68.26895	1147	1255	95.44997		117			99.8
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1167	1217	68.26895	1151	1256	95.44997		115.7			99.8
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1129	1166	68.26895	1110	1213	95.44997		84.2			99.6
Last M1b R4 Uniform							1242	1269	68.26895	1231	1276	95.44997					99.1
Boundary TS1 M1b Uniform R4							1244	1275	68.26895	1231	1289	95.44997					98

1.18.1 - Dataset M1b; Uniform Prior/50-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,1.7),"t");
  Sequence()
  {
    Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b","M1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2b","M2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3b","M3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4b","M4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5b","M5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6b","M6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7b","M7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8b","M8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9b","M9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10b","M10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11b","M11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12b","M12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13b","M13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14b","M14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15b","M15b.prior"))
{

```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M16b", "M16b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17b", "M17b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18b", "M18b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19b", "M19b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20b", "M20b.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1b Mod Char R1");
};
};

```

1.18.2 - Dataset M1b; Run 1; Uniform Prior /50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R1 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 89.1 Aoverall 87.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	0	68.26895	-86	0	95.44997					99.8
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			97.7
Sequence																	
Boundary Model M1b							1091	1242	68.26895	1048	1253	95.44997					95.4
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1234	1272	68.26895	1222	1291	95.44997		89.1			99.7
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1224	1269	68.26895	1180	1284	95.44997		101.1			99.7
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1215	1269	68.26895	1171	1280	95.44997		103.4			99.5
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1152	1248	68.26895	1102	1273	95.44997		94.3			98.2
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1154	1248	68.26895	1101	1274	95.44997		96.2			98.2
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1170	1246	68.26895	1134	1277	95.44997		114.4			98.6
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1162	1246	68.26895	1120	1277	95.44997		110.4			98.4

Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1139	1247	68.26895	1098	1272	95.44997		86.3			98
Prior M9b	995	1146	68.26895	992	1157	95.44997	1112	1253	68.26895	1092	1267	95.44997		70.3			98.1
Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1217	1269	68.26895	1173	1281	95.44997		102.9			99.5
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1150	1248	68.26895	1101	1272	95.44997		91.7			98.1
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1186	1262	68.26895	1164	1276	95.44997		107.5			99.2
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1165	1245	68.26895	1126	1277	95.44997		113.2			98.5
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1234	1276	68.26895	1223	1292	95.44997		83.7			99.7
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1231	1269	68.26895	1186	1293	95.44997		99.4			99.8
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1115	1254	68.26895	1094	1268	95.44997		90.9			98.2
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1155	1247	68.26895	1101	1274	95.44997		98.1			98.3
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1232	1269	68.26895	1212	1294	95.44997		99			99.8
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1229	1269	68.26895	1183	1289	95.44997		100.3			99.8
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1228	1269	68.26895	1182	1287	95.44997		100.6			99.8
Boundary TS1 M1b Mod Char R1							1258	1294	68.26895	1240	1314	95.44997					98.7

1.18.3 - Dataset M1b; Run 2; Uniform Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R2 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 81.6 Aoverall 80.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	0	68.26895	-85	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	0.7735	1.7	68.26895	3.47E-18	1.7	95.44997		100			98.8
Sequence																	
Boundary Model M1b							1107	1229	68.26895	1066	1249	95.44997					96.9
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1135	1243	68.26895	1105	1267	95.44997		85.8			99.1
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1190	1261	68.26895	1165	1277	95.44997		108.4			99.7
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1136	1243	68.26895	1106	1268	95.44997		84.6			99.1
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1172	1241	68.26895	1135	1274	95.44997		115.1			99.5
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1188	1252	68.26895	1162	1276	95.44997		111.2			99.6
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1221	1268	68.26895	1179	1284	95.44997		100.3			99.8
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1204	1265	68.26895	1167	1278	95.44997		106.6			99.7

Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1187	1251	68.26895	1162	1275	95.44997		111.5			99.5
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1162	1238	68.26895	1123	1274	95.44997		102.8			99.3
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1181	1246	68.26895	1158	1276	95.44997		114.1			99.5
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1225	1267	68.26895	1183	1286	95.44997		99.2			99.8
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1214	1268	68.26895	1172	1281	95.44997		103			99.8
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1226	1267	68.26895	1183	1289	95.44997		98.9			99.8
Prior M14b	993	1117	68.26895	977	1156	95.44997	1123	1248	68.26895	1104	1267	95.44997		45.8			99.1
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1232	1287	68.26895	1226	1299	95.44997		52.9			99.5
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1163	1239	68.26895	1124	1274	95.44997		103.9			99.3
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1157	1239	68.26895	1118	1273	95.44997		92.9			99.2
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1224	1268	68.26895	1182	1285	95.44997		99.5			99.8
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1229	1268	68.26895	1213	1296	95.44997		96.9			99.8
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1177	1243	68.26895	1150	1279	95.44997		116.1			99.5
Boundary TS1 M1b Mod Char R2							1252	1296	68.26895	1235	1317	95.44997					98.7

1.18.4 - Dataset M1b; Run 3; Uniform Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R3 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 88.8 Aoverall 85.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-10	0	68.26895	-47	0	95.44997					99.8
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	1.3515	68.26895	3.47E-18	1.5402	95.44997		100			98.4
Sequence																	
Boundary Model M1b							1162	1214	68.26895	1140	1239	95.44997					96.5
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1200	1246	68.26895	1175	1264	95.44997		116.4			99.3
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1198	1244	68.26895	1174	1264	95.44997		117.2			99.2
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1191	1233	68.26895	1164	1254	95.44997		107.8			98.7
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1202	1247	68.26895	1176	1265	95.44997		115.3			99.4
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1199	1244	68.26895	1174	1264	95.44997		117			99.2
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1223	1250	68.26895	1215	1279	95.44997		83.9			99.8
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1198	1244	68.26895	1174	1263	95.44997		117.2			99.2
Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1222	1251	68.26895	1208	1279	95.44997		90.9			99.9
Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1224	1250	68.26895	1218	1279	95.44997		74.1			99.9
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1221	1252	68.26895	1186	1276	95.44997		95.7			99.9

Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1189	1234	68.26895	1154	1253	95.44997		42.8			98.4
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1192	1236	68.26895	1168	1258	95.44997		121			98.7
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1217	1254	68.26895	1185	1270	95.44997		100.4			99.8
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1193	1236	68.26895	1169	1259	95.44997		120.5			99
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1209	1252	68.26895	1180	1268	95.44997		109.5			99.6
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1197	1242	68.26895	1173	1263	95.44997		117.6			99.1
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1190	1234	68.26895	1157	1253	95.44997		54.7			98.6
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1218	1254	68.26895	1185	1271	95.44997		100			99.8
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1190	1233	68.26895	1159	1254	95.44997		73.6			98.5
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1194	1238	68.26895	1171	1260	95.44997		119.2			99
Last M1b R3 modChar							1232	1265	68.26895	1225	1282	95.44997					99.5
Boundary TS1 M1b Mod Char R3							1233	1269	68.26895	1225	1289	95.44997					98.8

1.18.5 - Dataset M1b; Run 4; Uniform Prior/50-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R4 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93 Aoverall 92.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-28	0	68.26895	-104	0	95.44997					99.7
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	1.1033	1.7	68.26895	3.47E-18	1.7	95.44997		100			99.2
Sequence																	
Boundary Model M1b							1133	1241	68.26895	1100	1251	95.44997					96
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1229	1262	68.26895	1215	1289	95.44997		95.1			99.7
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1214	1263	68.26895	1175	1277	95.44997		107.5			99.7
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1228	1262	68.26895	1187	1287	95.44997		97.6			99.8
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1191	1254	68.26895	1147	1274	95.44997		110.6			98.9
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1228	1263	68.26895	1188	1287	95.44997		97.8			99.8
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1191	1254	68.26895	1148	1273	95.44997		111.5			99
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1156	1255	68.26895	1130	1270	95.44997		80			98.8
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1195	1254	68.26895	1157	1272	95.44997		118			99
Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1218	1264	68.26895	1178	1279	95.44997		104.8			99.7

Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1193	1254	68.26895	1154	1273	95.44997		116.5			99
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1197	1254	68.26895	1160	1271	95.44997		117.6			99.1
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1215	1263	68.26895	1175	1277	95.44997		107.1			99.6
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1229	1262	68.26895	1218	1288	95.44997		93.2			99.7
Prior M14b	977	1029	68.26895	892	1114	95.44997	1141	1255	68.26895	1114	1267	95.44997		37.1			97.9
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1228	1262	68.26895	1208	1289	95.44997		96.7			99.7
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1190	1254	68.26895	1144	1273	95.44997		106.3			98.9
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1226	1263	68.26895	1186	1283	95.44997		98.8			99.7
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1196	1254	68.26895	1160	1271	95.44997		117.6			99.1
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1198	1255	68.26895	1162	1271	95.44997		116.7			99.1
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1146	1254	68.26895	1124	1269	95.44997		81.4			98.6
Last M1b R4 modChar							1246	1277	68.26895	1233	1294	95.44997					99.1
Boundary TS1 M1b Mod Char R4							1247	1283	68.26895	1233	1303	95.44997					98.5

1.19.1 - Dataset M1b; Uniform Prior/Default Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model M1b");
    Phase()
    {
      Date(Prior("M1b","M1b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2b","M2b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3b","M3b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4b","M4b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5b","M5b.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6b","M6b.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7b","M7b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8b","M8b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9b","M9b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10b","M10b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11b","M11b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12b","M12b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13b","M13b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14b","M14b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15b","M15b.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16b", "M16b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17b", "M17b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18b", "M18b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19b", "M19b.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20b", "M20b.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1b Char R1");
};
};

```

1.19.2 - Dataset M1b; Run 1; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 90.6 Aoverall 89.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-26	1	68.26895	-122	1	95.44997					99.3
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	3.60E-17	1.926	68.26895	3.60E-17	1.932	95.44997		100			94.6
Sequence																	
Boundary Model M1b							1100	1259	68.26895	1056	1274	95.44997					91.6
Phase																	
Prior M1b	1229	1281	68.26895	1220	1292	95.44997	1237	1276	68.26895	1223	1294	95.44997		89.2			99.7
Prior M2b	1220	1266	68.26895	1175	1277	95.44997	1227	1273	68.26895	1182	1290	95.44997		101.9			99.5
Prior M3b	1180	1264	68.26895	1164	1272	95.44997	1219	1274	68.26895	1174	1287	95.44997		104.1			99
Prior M4b	1047	1203	68.26895	1039	1215	95.44997	1155	1265	68.26895	1113	1291	95.44997		94.2			95
Prior M5b	1047	1208	68.26895	1040	1216	95.44997	1157	1264	68.26895	1114	1291	95.44997		96.1			94.9
Prior M6b	1053	1220	68.26895	1044	1259	95.44997	1176	1263	68.26895	1137	1291	95.44997		113.8			95.9
Prior M7b	1052	1216	68.26895	1040	1222	95.44997	1166	1262	68.26895	1127	1290	95.44997		109.9			95.6
Prior M8b	1044	1165	68.26895	1034	1211	95.44997	1144	1267	68.26895	1105	1288	95.44997		86.7			94.5

Prior M9b	995	1146	68.26895	992	1157	95.44997	1117	1273	68.26895	1101	1286	95.44997		72.9			94.2
Prior M10b	1181	1266	68.26895	1166	1272	95.44997	1220	1274	68.26895	1175	1288	95.44997		103.7			99.1
Prior M11b	1046	1201	68.26895	1038	1213	95.44997	1153	1266	68.26895	1112	1290	95.44997		91.8			95
Prior M12b	1167	1254	68.26895	1053	1270	95.44997	1204	1271	68.26895	1166	1285	95.44997		107.2			97.9
Prior M13b	1053	1218	68.26895	1040	1225	95.44997	1170	1262	68.26895	1132	1289	95.44997		112.8			95.6
Prior M14b	1230	1284	68.26895	1221	1296	95.44997	1237	1277	68.26895	1224	1294	95.44997		83.7			99.7
Prior M15b	1227	1272	68.26895	1181	1283	95.44997	1234	1273	68.26895	1213	1298	95.44997		100			99.7
Prior M16b	1024	1151	68.26895	995	1158	95.44997	1120	1273	68.26895	1100	1286	95.44997		92.1			93.9
Prior M17b	1048	1210	68.26895	1040	1217	95.44997	1158	1264	68.26895	1116	1292	95.44997		98			95.1
Prior M18b	1227	1273	68.26895	1181	1284	95.44997	1234	1273	68.26895	1215	1298	95.44997		99.5			99.7
Prior M19b	1226	1267	68.26895	1179	1280	95.44997	1232	1273	68.26895	1184	1295	95.44997		101			99.7
Prior M20b	1223	1266	68.26895	1178	1279	95.44997	1231	1273	68.26895	1183	1293	95.44997		101.3			99.5
Boundary TS1 M1b Char R1							1260	1295	68.26895	1242	1316	95.44997					98.9

1.19.3 - Dataset M1b; Run 2; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 84.3 Aoverall 83.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-27	1	68.26895	-112	1	95.44997					99.3
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	0.768	1.905	68.26895	3.60E-17	1.911	95.44997		100			96.2
Sequence																	
Boundary Model 1b							1111	1241	68.26895	1070	1268	95.44997					92.3
Phase																	
Prior M1b	1036	1154	68.26895	1023	1198	95.44997	1137	1256	68.26895	1109	1285	95.44997		87.5			95.3
Prior M2b	1168	1255	68.26895	1053	1270	95.44997	1203	1268	68.26895	1166	1285	95.44997		108.1			98.8
Prior M3b	1037	1155	68.26895	1024	1199	95.44997	1138	1255	68.26895	1109	1286	95.44997		86.3			95.2
Prior M4b	1053	1218	68.26895	1040	1225	95.44997	1175	1253	68.26895	1137	1288	95.44997		114.2			97.1
Prior M5b	1162	1251	68.26895	1050	1268	95.44997	1191	1263	68.26895	1163	1285	95.44997		110.5			98.3
Prior M6b	1217	1267	68.26895	1168	1275	95.44997	1223	1271	68.26895	1180	1290	95.44997		101			99.7
Prior M7b	1177	1260	68.26895	1054	1273	95.44997	1208	1270	68.26895	1168	1286	95.44997		106.5			99.1

Prior M8b	1162	1251	68.26895	1050	1269	95.44997	1191	1263	68.26895	1163	1285	95.44997		110.7			98.2
Prior M9b	1049	1214	68.26895	1040	1219	95.44997	1164	1251	68.26895	1127	1288	95.44997		102.4			96.6
Prior M10b	1158	1224	68.26895	1048	1265	95.44997	1187	1258	68.26895	1159	1286	95.44997		113.3			97.8
Prior M11b	1222	1265	68.26895	1177	1278	95.44997	1227	1271	68.26895	1183	1293	95.44997		100.1			99.8
Prior M12b	1180	1264	68.26895	1164	1272	95.44997	1216	1272	68.26895	1174	1288	95.44997		103.6			99.4
Prior M13b	1224	1266	68.26895	1178	1279	95.44997	1228	1271	68.26895	1184	1295	95.44997		99.7			99.8
Prior M14b	993	1117	68.26895	977	1156	95.44997	1126	1263	68.26895	1106	1284	95.44997		50.2			94.9
Prior M15b	1269	1376	68.26895	1228	1387	95.44997	1233	1289	68.26895	1226	1302	95.44997		55			99.4
Prior M16b	1049	1214	68.26895	1040	1219	95.44997	1165	1251	68.26895	1128	1288	95.44997		103.5			96.5
Prior M17b	1047	1202	68.26895	1039	1214	95.44997	1158	1252	68.26895	1121	1288	95.44997		93.1			96.2
Prior M18b	1220	1266	68.26895	1175	1278	95.44997	1225	1271	68.26895	1183	1291	95.44997		100.3			99.8
Prior M19b	1228	1275	68.26895	1182	1286	95.44997	1231	1272	68.26895	1215	1300	95.44997		97.4			99.8
Prior M20b	1053	1221	68.26895	1045	1260	95.44997	1182	1255	68.26895	1153	1290	95.44997		115.3			97.2
Boundary TS1 M1b Char R2							1255	1298	68.26895	1236	1320	95.44997					98.7

1.19.4 - Dataset M1b; Run 3; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 88.6 Aoverall 85.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-11	1	68.26895	-53	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	0.081	1.347	68.26895	3.60E-17	1.605	95.44997		100			98.3
Sequence																	
Boundary Model M1b							1162	1214	68.26895	1142	1244	95.44997					95.4
Phase																	
Prior M1b	1166	1253	68.26895	1053	1269	95.44997	1200	1247	68.26895	1176	1266	95.44997		116.2			99.4
Prior M2b	1164	1252	68.26895	1052	1268	95.44997	1198	1245	68.26895	1175	1266	95.44997		117			99.2
Prior M3b	1050	1216	68.26895	1040	1220	95.44997	1191	1234	68.26895	1165	1259	95.44997		107.6			99
Prior M4b	1168	1257	68.26895	1053	1271	95.44997	1202	1249	68.26895	1177	1267	95.44997		115.1			99.4
Prior M5b	1164	1252	68.26895	1052	1268	95.44997	1199	1245	68.26895	1175	1266	95.44997		116.8			99.3
Prior M6b	1229	1278	68.26895	1218	1288	95.44997	1223	1251	68.26895	1215	1279	95.44997		83.9			99.5
Prior M7b	1164	1252	68.26895	1052	1268	95.44997	1198	1245	68.26895	1175	1266	95.44997		117.1			99.3
Prior M8b	1228	1274	68.26895	1182	1285	95.44997	1222	1252	68.26895	1208	1279	95.44997		91.1			99.5

Prior M9b	1229	1281	68.26895	1220	1292	95.44997	1224	1251	68.26895	1218	1279	95.44997		73.9			99.5
Prior M10b	1225	1267	68.26895	1179	1280	95.44997	1221	1253	68.26895	1187	1276	95.44997		96.1			99.5
Prior M11b	1042	1157	68.26895	1028	1202	95.44997	1189	1235	68.26895	1155	1258	95.44997		43.2			98.7
Prior M12b	1053	1221	68.26895	1046	1261	95.44997	1192	1236	68.26895	1169	1262	95.44997		120.7			99.1
Prior M13b	1219	1266	68.26895	1168	1276	95.44997	1217	1255	68.26895	1185	1271	95.44997		100.6			99.4
Prior M14b	1054	1222	68.26895	1047	1263	95.44997	1192	1237	68.26895	1170	1262	95.44997		120.1			99.2
Prior M15b	1180	1263	68.26895	1162	1272	95.44997	1209	1253	68.26895	1180	1269	95.44997		109.6			99.4
Prior M16b	1162	1252	68.26895	1051	1268	95.44997	1197	1244	68.26895	1174	1265	95.44997		117.4			99.3
Prior M17b	1044	1162	68.26895	1032	1210	95.44997	1189	1234	68.26895	1157	1258	95.44997		54.8			98.9
Prior M18b	1219	1266	68.26895	1168	1277	95.44997	1218	1254	68.26895	1185	1272	95.44997		100.3			99.5
Prior M19b	1046	1199	68.26895	1037	1213	95.44997	1190	1234	68.26895	1160	1259	95.44997		73.6			98.9
Prior M20b	1159	1224	68.26895	1048	1266	95.44997	1193	1239	68.26895	1172	1264	95.44997		118.9			99.2
Last M1b R3 Char							1233	1265	68.26895	1225	1282	95.44997					98.9
Boundary TS1 M1b Char R3							1234	1269	68.26895	1225	1289	95.44997					96.7

1.19.5 - Dataset M1b; Run 4; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1b R4 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.2 Aoverall 101.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-41	1	68.26895	-147	1	95.44997					98.4
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	1.305	1.965	68.26895	3.60E-17	2.019	95.44997		100			97.7
Sequence																	
Boundary Model M1b							1134	1259	68.26895	1102	1273	95.44997					94.4
Phase																	
Prior M1b	1228	1274	68.26895	1182	1285	95.44997	1233	1270	68.26895	1219	1293	95.44997		96.7			99.5
Prior M2b	1178	1261	68.26895	1158	1273	95.44997	1221	1271	68.26895	1178	1287	95.44997		107.3			98.9
Prior M3b	1226	1267	68.26895	1179	1280	95.44997	1232	1270	68.26895	1209	1295	95.44997		99.5			99.6
Prior M4b	1051	1216	68.26895	1040	1221	95.44997	1201	1270	68.26895	1152	1288	95.44997		109			97.1
Prior M5b	1225	1267	68.26895	1179	1280	95.44997	1232	1269	68.26895	1206	1295	95.44997		99.6			99.6
Prior M6b	1051	1216	68.26895	1040	1221	95.44997	1201	1270	68.26895	1152	1288	95.44997		109.8			97.2
Prior M7b	1044	1164	68.26895	1033	1210	95.44997	1196	1273	68.26895	1134	1286	95.44997		82.8			97.1
Prior M8b	1053	1220	68.26895	1043	1258	95.44997	1205	1270	68.26895	1160	1285	95.44997		115.8			97.4

Prior M9b	1180	1264	68.26895	1163	1272	95.44997	1224	1271	68.26895	1181	1287	95.44997		105.4			99.2
Prior M10b	1053	1218	68.26895	1040	1225	95.44997	1203	1269	68.26895	1157	1286	95.44997		114.5			97.2
Prior M11b	1054	1221	68.26895	1046	1261	95.44997	1207	1269	68.26895	1163	1284	95.44997		115.4			97.6
Prior M12b	1179	1261	68.26895	1159	1273	95.44997	1222	1271	68.26895	1178	1287	95.44997		107.1			99
Prior M13b	1228	1276	68.26895	1216	1287	95.44997	1234	1269	68.26895	1220	1293	95.44997		94.7			99.6
Prior M14b	977	1029	68.26895	892	1114	95.44997	1142	1274	68.26895	1118	1285	95.44997		54.5			96.6
Prior M15b	1227	1270	68.26895	1180	1282	95.44997	1233	1269	68.26895	1214	1295	95.44997		98.4			99.6
Prior M16b	1049	1215	68.26895	1040	1219	95.44997	1200	1270	68.26895	1148	1288	95.44997		105.3			97.2
Prior M17b	1222	1265	68.26895	1177	1278	95.44997	1231	1270	68.26895	1187	1293	95.44997		100.6			99.6
Prior M18b	1054	1221	68.26895	1046	1261	95.44997	1207	1270	68.26895	1163	1284	95.44997		115.3			97.6
Prior M19b	1055	1223	68.26895	1047	1264	95.44997	1208	1270	68.26895	1165	1284	95.44997		114.4			97.8
Prior M20b	1036	1154	68.26895	1023	1198	95.44997	1149	1272	68.26895	1128	1286	95.44997		85.9			96.9
Last M1b R4 Char							1249	1282	68.26895	1234	1303	95.44997					99.1
Boundary TS1 M1b Char R4							1251	1288	68.26895	1235	1311	95.44997					98.9

1.20.1 - Dataset M1c; Combine Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Combine(TS1_M1c_R1)
{
  Date(Prior("M1c","M1c.prior"));
  Date(Prior("M2c","M2c.prior"));
  Date(Prior("M3c","M3c.prior"));
  Date(Prior("M4c","M4c.prior"));
  Date(Prior("M5c","M5c.prior"));
  Date(Prior("M6c","M6c.prior"));
  Date(Prior("M7c","M7c.prior"));
  Date(Prior("M8c","M8c.prior"));
  Date(Prior("M9c","M9c.prior"));
  Date(Prior("M10c","M10c.prior"));
  Date(Prior("M11c","M11c.prior"));
  Date(Prior("M12c","M12c.prior"));
  Date(Prior("M13c","M13c.prior"));
  Date(Prior("M14c","M14c.prior"));
  Date(Prior("M15c","M15c.prior"));
  Date(Prior("M16c","M16c.prior"));
  Date(Prior("M17c","M17c.prior"));
  Date(Prior("M18c","M18c.prior"));
  Date(Prior("M19c","M19c.prior"));
  Date(Prior("M20c","M20c.prior"));
};
```

1.20.2 - Dataset M1c; Run 1; Combine Model; Table of Distributions

Name: TS1 M1c R1 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1c_R1	1217	1221	68.26895	1183	1223	95.44997							2.3				
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1217	1221	68.26895	1183	1223	95.44997		154.2			
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1217	1221	68.26895	1183	1223	95.44997		13.1			
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1217	1221	68.26895	1183	1223	95.44997		114.5			
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1217	1221	68.26895	1183	1223	95.44997		0.3			
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1217	1221	68.26895	1183	1223	95.44997		17.3			
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1217	1221	68.26895	1183	1223	95.44997		67.8			
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1217	1221	68.26895	1183	1223	95.44997		150.2			
Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1217	1221	68.26895	1183	1223	95.44997		114.1			
Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1217	1221	68.26895	1183	1223	95.44997		141.9			
Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1217	1221	68.26895	1183	1223	95.44997		91.8			
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1217	1221	68.26895	1183	1223	95.44997		74.4			
Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1217	1221	68.26895	1183	1223	95.44997		4.1			
Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1217	1221	68.26895	1183	1223	95.44997		39.6			
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1217	1221	68.26895	1183	1223	95.44997		86.6			
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1217	1221	68.26895	1183	1223	95.44997		84.3			
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1217	1221	68.26895	1183	1223	95.44997		6.4			
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1217	1221	68.26895	1183	1223	95.44997		94.6			

Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1217	1221	68.26895	1183	1223	95.44997		58.4			
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1217	1221	68.26895	1183	1223	95.44997		59.8			
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1217	1221	68.26895	1183	1223	95.44997		153.3			

1.20.3 - Dataset M1c; Run 2; Combine Model; Table of Distributions

Name: TS1 M1c R2 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1c_R2																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997											
Prior M2c	1044	1163	68.26895	1033	1210	95.44997											
Prior M3c	1220	1266	68.26895	1175	1278	95.44997											
Prior M4c	775	879	68.26895	687	949	95.44997											
Prior M5c	1053	1217	68.26895	1040	1224	95.44997											
Prior M6c	1034	1153	68.26895	997	1167	95.44997											
Prior M7c	1227	1272	68.26895	1181	1283	95.44997											
Prior M8c	899	1021	68.26895	892	1026	95.44997											
Prior M9c	1228	1275	68.26895	1214	1287	95.44997											
Prior M10c	1053	1217	68.26895	1040	1224	95.44997											
Prior M11c	1049	1215	68.26895	1040	1219	95.44997											

Prior M12c	1051	1216	68.26895	1040	1221	95.44997											
Prior M13c	1053	1220	68.26895	1043	1258	95.44997											
Prior M14c	1165	1253	68.26895	1052	1268	95.44997											
Prior M15c	1047	1202	68.26895	1039	1214	95.44997											
Prior M16c	1159	1224	68.26895	1048	1266	95.44997											
Prior M17c	1048	1210	68.26895	1040	1217	95.44997											
Prior M18c	1226	1267	68.26895	1179	1280	95.44997											
Prior M19c	1159	1225	68.26895	1048	1267	95.44997											
Prior M20c	1049	1215	68.26895	1040	1219	95.44997											

2.20.4 - Dataset M1c; Run 3; Combine Model; Table of Distributions

Name: TS1 M1c R3 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1c_R3																	
Prior M1c	775	974	68.26895	775	991	95.44997											
Prior M2c	1034	1152	68.26895	997	1166	95.44997											
Prior M3c	434	541	68.26895	418	562	95.44997											
Prior M4c	1164	1252	68.26895	1052	1268	95.44997											
Prior M5c	1159	1224	68.26895	1048	1266	95.44997											
Prior M6c	1047	1202	68.26895	1039	1214	95.44997											
Prior M7c	1180	1264	68.26895	1163	1272	95.44997											

Prior M8c	1053	1217	68.26895	1040	1224	95.44997											
Prior M9c	1220	1266	68.26895	1175	1277	95.44997											
Prior M10c	1047	1207	68.26895	1039	1216	95.44997											
Prior M11c	1182	1266	68.26895	1166	1272	95.44997											
Prior M12c	1182	1266	68.26895	1167	1273	95.44997											
Prior M13c	1164	1252	68.26895	1052	1268	95.44997											
Prior M14c	1226	1268	68.26895	1179	1281	95.44997											
Prior M15c	1044	1162	68.26895	1032	1209	95.44997											
Prior M16c	1048	1209	68.26895	1040	1217	95.44997											
Prior M17c	1046	1200	68.26895	1038	1213	95.44997											
Prior M18c	1227	1272	68.26895	1180	1283	95.44997											
Prior M19c	1051	1216	68.26895	1040	1221	95.44997											
Prior M20c	1178	1261	68.26895	1055	1273	95.44997											

1.20.5 - Dataset M1c; Run 4; Combine Model; Table of Distributions

Name: TS1 M1c R4 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1c_R4																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997											
Prior M2c	1034	1153	68.26895	997	1167	95.44997											

Prior M3c	1229	1278	68.26895	1218	1288	95.44997											
Prior M4c	1045	1198	68.26895	1036	1212	95.44997											
Prior M5c	1181	1265	68.26895	1165	1272	95.44997											
Prior M6c	1054	1222	68.26895	1047	1263	95.44997											
Prior M7c	1044	1165	68.26895	1034	1211	95.44997											
Prior M8c	1053	1219	68.26895	1040	1252	95.44997											
Prior M9c	1224	1266	68.26895	1178	1279	95.44997											
Prior M10c	1023	1151	68.26895	995	1158	95.44997											
Prior M11c	1178	1261	68.26895	1055	1273	95.44997											
Prior M12c	1158	1224	68.26895	1048	1265	95.44997											
Prior M13c	1043	1158	68.26895	1028	1203	95.44997											
Prior M14c	1044	1165	68.26895	1034	1211	95.44997											
Prior M15c	1037	1155	68.26895	1025	1199	95.44997											
Prior M16c	1221	1265	68.26895	1175	1278	95.44997											
Prior M17c	775	951	68.26895	774	977	95.44997											
Prior M18c	1165	1253	68.26895	1052	1268	95.44997											
Prior M19c	1181	1265	68.26895	1165	1272	95.44997											
Prior M20c	1219	1266	68.26895	1168	1276	95.44997											

1.21.1 - Dataset M1c; Exponential Prior/No Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model M1c");
    Phase()
    {
      Date(Prior("M1c", "M1c.prior"));
      Date(Prior("M2c", "M2c.prior"));
      Date(Prior("M3c", "M3c.prior"));
      Date(Prior("M4c", "M4c.prior"));
      Date(Prior("M5c", "M5c.prior"));
      Date(Prior("M6c", "M6c.prior"));
      Date(Prior("M7c", "M7c.prior"));
      Date(Prior("M8c", "M8c.prior"));
      Date(Prior("M9c", "M9c.prior"));
      Date(Prior("M10c", "M10c.prior"));
      Date(Prior("M11c", "M11c.prior"));
      Date(Prior("M12c", "M12c.prior"));
      Date(Prior("M13c", "M13c.prior"));
      Date(Prior("M14c", "M14c.prior"));
      Date(Prior("M15c", "M15c.prior"));
      Date(Prior("M16c", "M16c.prior"));
      Date(Prior("M17c", "M17c.prior"));
      Date(Prior("M18c", "M18c.prior"));
      Date(Prior("M19c", "M19c.prior"));
      Date(Prior("M20c", "M20c.prior"));
    };
    Boundary("TS1 M1c Tau R1");
  };
};
```

};

1.21.2 - Dataset M1c; Run 1; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1c R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.1 Aoverall 98				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1c							1199	1225	68.26895	1179	1236	95.44997					98.5
Phase																	
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1209	1256	68.26895	1173	1265	95.44997		108.5			99.2
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1224	1251	68.26895	1220	1272	95.44997		80.4			99.1
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1218	1255	68.26895	1179	1268	95.44997		113.3			99
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1091	1160	68.26895	1027	1215	95.44997		90.4			99.2
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1223	1251	68.26895	1220	1272	95.44997		87.8			99.3
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1222	1253	68.26895	1182	1272	95.44997		109.5			99.4
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1212	1257	68.26895	1176	1266	95.44997		110.8			99.3
Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1178	1250	68.26895	1160	1261	95.44997		104			99.3
Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1199	1254	68.26895	1166	1262	95.44997		103.3			99.1
Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1220	1253	68.26895	1181	1270	95.44997		112			99.4
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1221	1253	68.26895	1182	1271	95.44997		110.3			99.3
Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1120	1216	68.26895	1062	1220	95.44997		76.4			99.2

Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1162	1219	68.26895	1062	1256	95.44997		96.9			99.4
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1220	1254	68.26895	1181	1270	95.44997		111.7			99.4
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1173	1223	68.26895	1134	1263	95.44997		108			99.1
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1224	1250	68.26895	1221	1273	95.44997		60.4			99.4
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1173	1224	68.26895	1154	1263	95.44997		106.6			99.4
Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1170	1220	68.26895	1071	1261	95.44997		105.7			99.2
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1222	1252	68.26895	1205	1272	95.44997		108.4			99.3
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1209	1256	68.26895	1174	1266	95.44997		109.4			99
Boundary TS1 M1c Tau R1							1243	1271	68.26895	1231	1280	95.44997					95.6

1.21.3 - Dataset M1c; Run 2; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1c R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.8 Aoverall 108.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1c							1130	1181	68.26895	1089	1197	95.44997					97.8
Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1219	1250	68.26895	1179	1270	95.44997		100.6			98.8
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1077	1213	68.26895	1047	1217	95.44997		91.2			99.2
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1217	1253	68.26895	1177	1267	95.44997		102.3			99
Prior M4c	775	879	68.26895	687	949	95.44997	788	889	68.26895	708	975	95.44997		95.5			98.8

Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1160	1219	68.26895	1049	1252	95.44997		108.7			99.2
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1082	1159	68.26895	1027	1203	95.44997		97.5			99
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1221	1248	68.26895	1181	1273	95.44997		97.9			99.1
Prior M8c	899	1021	68.26895	892	1026	95.44997	960	1024	68.26895	895	1030	95.44997		103.7			98.6
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1221	1247	68.26895	1182	1274	95.44997		94.8			98.4
Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1161	1219	68.26895	1049	1252	95.44997		108.7			99.4
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1135	1220	68.26895	1048	1224	95.44997		102.2			99.1
Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1156	1219	68.26895	1048	1227	95.44997		105.5			99.2
Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1165	1220	68.26895	1051	1256	95.44997		110.2			99.2
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1176	1232	68.26895	1159	1262	95.44997		108.1			99.2
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1127	1218	68.26895	1049	1220	95.44997		94.8			99.1
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1168	1223	68.26895	1053	1262	95.44997		109.3			99.3
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1131	1219	68.26895	1048	1221	95.44997		97.8			99.2
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1220	1250	68.26895	1179	1270	95.44997		99.9			99
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1169	1224	68.26895	1054	1263	95.44997		108.9			99.1
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1135	1220	68.26895	1048	1224	95.44997		102.4			98.9
Boundary TS1 M1c Tau R2							1237	1266	68.26895	1228	1281	95.44997					95.6

1.21.4 - Dataset M1c; Run 3; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1c R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 107.6 Aoverall 107.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1c							1103	1165	68.26895	1053	1185	95.44997					96.6
Phase																	
Prior M1c	775	974	68.26895	775	991	95.44997	880	989	68.26895	776	992	95.44997		102.3			98.7
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1080	1159	68.26895	1025	1201	95.44997		98.8			99.3
Prior M3c	434	541	68.26895	418	562	95.44997	454	551	68.26895	422	570	95.44997		96.6			98.5
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1168	1249	68.26895	1055	1266	95.44997		106.1			99.2
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1167	1223	68.26895	1052	1263	95.44997		107.1			99.1
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1069	1217	68.26895	1048	1219	95.44997		95.9			99
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1183	1258	68.26895	1167	1264	95.44997		105.8			99.2
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1157	1219	68.26895	1047	1254	95.44997		107			99.1
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1218	1257	68.26895	1176	1270	95.44997		103.6			99.1
Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1071	1217	68.26895	1047	1220	95.44997		96.8			99
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1211	1260	68.26895	1168	1266	95.44997		105.2			99.1
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1212	1259	68.26895	1169	1266	95.44997		105.4			99
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1170	1249	68.26895	1155	1266	95.44997		106			99.3
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1221	1253	68.26895	1180	1273	95.44997		101.5			99

Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1066	1203	68.26895	1041	1215	95.44997		93.7			99
Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1064	1218	68.26895	1047	1220	95.44997		97.7			98.8
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1066	1216	68.26895	1047	1218	95.44997		94.8			99
Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1221	1252	68.26895	1181	1275	95.44997		99.9			98.7
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1074	1220	68.26895	1046	1224	95.44997		104			99
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1181	1254	68.26895	1164	1264	95.44997		105.9			99.1
Last M1c R3 Tau							1242	1267	68.26895	1228	1274	95.44997					99.4
Boundary TS1 M1c Tau R3							1245	1274	68.26895	1230	1286	95.44997					96.6

1.21.5 - Dataset M1c; Run 4; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1c R4 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.2 Aoverall 97				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1c							1137	1184	68.26895	1099	1201	95.44997					98.4
Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1079	1200	68.26895	1036	1214	95.44997		93			99
Prior M2c	1034	1153	68.26895	997	1167	95.44997	1083	1160	68.26895	1028	1206	95.44997		97			99.1
Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1221	1247	68.26895	1212	1274	95.44997		88.2			99.3
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1123	1217	68.26895	1049	1219	95.44997		91.7			99.1

Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1206	1254	68.26895	1168	1263	95.44997		105.6			99.2
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1169	1221	68.26895	1052	1260	95.44997		110.6			99.4
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1097	1216	68.26895	1049	1218	95.44997		90.5			99.2
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1164	1219	68.26895	1050	1254	95.44997		110.3			99.3
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1218	1250	68.26895	1179	1268	95.44997		100			99.3
Prior M10c	1023	1151	68.26895	995	1158	95.44997	1084	1156	68.26895	997	1164	95.44997		98.1			98.7
Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1181	1249	68.26895	1165	1261	95.44997		107.8			99.1
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1168	1223	68.26895	1053	1262	95.44997		110.1			99.3
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1078	1202	68.26895	1040	1215	95.44997		91.5			99.1
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1097	1216	68.26895	1049	1218	95.44997		90.5			99.1
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1078	1164	68.26895	1033	1212	95.44997		94.6			99.1
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1217	1252	68.26895	1177	1267	95.44997		101.8			99.2
Prior M17c	775	951	68.26895	774	977	95.44997	845	989	68.26895	775	992	95.44997		94			98.7
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1176	1232	68.26895	1159	1261	95.44997		108.6			99.3
Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1206	1254	68.26895	1168	1263	95.44997		105.6			98.8
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1215	1254	68.26895	1176	1266	95.44997		102.6			99.3
Last M1c R4 Tau							1233	1261	68.26895	1224	1271	95.44997					98.9
Boundary TS1 M1c Tau R4							1236	1266	68.26895	1225	1279	95.44997					95.3

1.22.1 - Dataset M1c; Exponential Prior/100-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2),"t");
  Sequence()
  {
    Tau_Boundary("Model M1c");
    Phase()
    {
      Date(Prior("M1c","M1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2c","M2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3c","M3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4c","M4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5c","M5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6c","M6c.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7c", "M7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8c", "M8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9c", "M9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10c", "M10c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11c", "M11c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12c", "M12c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13c", "M13c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14c", "M14c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15c", "M15c.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16c", "M16c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17c", "M17c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18c", "M18c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19c", "M19c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20c", "M20c.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1c Tau Mod Char R1");
};
};

```

1.22.2 - Dataset M1c; Run 1; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R1 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.1 Aoverall 99.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	1	68.26895	-64	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	1.54	68.26895	2.69E-17	1.672	95.44997		100			96.9
Sequence																	
Tau_Boundary Model M1c							1203	1241	68.26895	1185	1268	95.44997					96.1
Phase																	
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1217	1266	68.26895	1179	1280	95.44997		108.6			98.6
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1231	1264	68.26895	1223	1282	95.44997		82			98.7
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1225	1265	68.26895	1188	1282	95.44997		112.2			98.8
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1093	1260	68.26895	1036	1279	95.44997		89.9			96.6
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1231	1264	68.26895	1223	1281	95.44997		88.9			98.8
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1229	1264	68.26895	1209	1284	95.44997		108.7			98.6
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1219	1265	68.26895	1181	1280	95.44997		110.4			98.5

Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1200	1261	68.26895	1165	1278	95.44997		105.5			97.7
Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1208	1264	68.26895	1172	1278	95.44997		104.5			98.6
Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1227	1264	68.26895	1186	1284	95.44997		111			98.9
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1228	1264	68.26895	1206	1284	95.44997		109.3			98.9
Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1125	1254	68.26895	1075	1278	95.44997		76			96.6
Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1170	1251	68.26895	1073	1283	95.44997		97.5			97.6
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1228	1264	68.26895	1189	1284	95.44997		110.6			98.7
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1190	1258	68.26895	1157	1282	95.44997		109.3			97.7
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1231	1267	68.26895	1224	1282	95.44997		63.5			98.6
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1193	1259	68.26895	1161	1280	95.44997		108.2			97.7
Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1179	1254	68.26895	1129	1283	95.44997		106.5			97.2
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1229	1264	68.26895	1213	1284	95.44997		107.7			98.7
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1218	1265	68.26895	1180	1279	95.44997		109.4			98.5
Boundary TS1 M1c Tau Mod Char R1							1249	1279	68.26895	1235	1291	95.44997					97.3

1.22.3 - Dataset M1c; Run 2; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R2 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.9 Aoverall 108.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-14	1	68.26895	-84	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	1.234	68.26895	2.69E-17	2	95.44997		100			95.5
Sequence																	
Tau_Boundary Model M1c							1132	1197	68.26895	1100	1253	95.44997					98.4
Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1224	1262	68.26895	1184	1284	95.44997		99.5			99
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1098	1222	68.26895	1050	1261	95.44997		91.5			98.6
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1222	1263	68.26895	1183	1280	95.44997		101			99.2
Prior M4c	775	879	68.26895	687	949	95.44997	789	953	68.26895	707	1278	95.44997		94.8			98.2
Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1161	1239	68.26895	1055	1275	95.44997		109			98.8
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1049	1199	68.26895	1035	1260	95.44997		97.9			98.7
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1226	1260	68.26895	1189	1287	95.44997		97.4			99.3
Prior M8c	899	1021	68.26895	892	1026	95.44997	910	1039	68.26895	894	1272	95.44997		103.7			98.5
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1226	1260	68.26895	1213	1287	95.44997		94.9			99.2

Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1161	1237	68.26895	1055	1275	95.44997		109.1			98.9
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1152	1249	68.26895	1055	1268	95.44997		102.7			98.8
Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1157	1241	68.26895	1055	1271	95.44998		105.9			98.9
Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1165	1237	68.26895	1055	1279	95.44997		110.7			98.9
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1188	1256	68.26895	1162	1278	95.44997		108.3			99.2
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1126	1235	68.26895	1054	1262	95.44997		95.1			98.7
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1178	1242	68.26895	1066	1284	95.44997		109.8			99.1
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1133	1236	68.26895	1056	1263	95.44997		98			98.9
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1224	1262	68.26895	1184	1285	95.44997		99.2			99.2
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1180	1251	68.26895	1069	1284	95.44997		109.7			99
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1153	1247	68.26895	1055	1268	95.44997		102.7			98.9
Boundary TS1 M1c Tau Mod Char R2							1244	1278	68.26895	1232	1296	95.44997					98.4

1.22.4 - Dataset M1c; Run 3; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R3 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 106.7 Aoverall 106.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-9	1	68.26895	-49	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	1.006	68.26895	2.69E-17	1.606	95.44997		100			96.7
Sequence																	
Tau_Boundary Model M1c							1108	1174	68.26895	1053	1203	95.44997					97.3
Phase																	
Prior M1c	775	974	68.26895	775	991	95.44997	883	993	68.26895	777	1026	95.44997		102.2			98.4
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1048	1168	68.26895	1028	1216	95.44997		99			98.1
Prior M3c	434	541	68.26895	418	562	95.44997	461	564	68.26895	419	608	95.44997		96.4			97.8
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1181	1252	68.26895	1075	1283	95.44997		106.2			98.8
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1170	1234	68.26895	1055	1279	95.44997		107.5			98.8
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1071	1222	68.26895	1045	1239	95.44997		96.1			98.3
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1210	1266	68.26895	1169	1277	95.44997		104.8			99.1
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1157	1232	68.26895	1053	1264	95.44997		107			98.7
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1222	1264	68.26895	1180	1280	95.44997		102.9			99
Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1071	1223	68.26895	1046	1242	95.44997		97			98.6
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1215	1266	68.26895	1172	1277	95.44997		104.3			98.8
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1216	1266	68.26895	1172	1278	95.44997		104.4			99
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1181	1253	68.26895	1157	1283	95.44997		106.2			99
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1225	1263	68.26895	1184	1285	95.44997		101.1			99
Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1075	1213	68.26895	1039	1229	95.44997		93.8			98.2
Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1074	1224	68.26895	1048	1243	95.44997		97.9			98.3
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1071	1221	68.26895	1043	1238	95.44997		95.1			98.2

Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1226	1262	68.26895	1184	1287	95.44997		99.6			98.9
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1074	1232	68.26895	1053	1255	95.44997		103.9			98.7
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1188	1263	68.26895	1166	1276	95.44997		105.6			98.9
Last M1c R3 TmodC							1246	1274	68.26895	1230	1290	95.44997					99
Boundary TS1 M1c Tau Mod Char R3							1249	1282	68.26895	1234	1302	95.44997					97.1

1.22.5 - Dataset M1c; Run 4; Exponential Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R4 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.6 Aoverall 96.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-99	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	1.368	68.26895	2.69E-17	1.9	95.44997		100			98
Sequence																	
Tau_Boundary Model M1c							1140	1204	68.26895	1108	1253	95.44997					98.2
Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1091	1217	68.26895	1044	1261	95.44997		93.3			98.7
Prior M2c	1034	1153	68.26895	997	1167	95.44997	1080	1206	68.26895	1037	1259	95.44997		97.3			98.9

Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1226	1260	68.26895	1216	1288	95.44997		89.2			99.4
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1123	1236	68.26895	1054	1265	95.44997		92			98.7
Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1215	1265	68.26895	1175	1280	95.44997		103.9			99.1
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1174	1242	68.26895	1058	1284	95.44997		111.5			99
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1099	1231	68.26895	1052	1266	95.44997		91			98.8
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1165	1239	68.26895	1056	1280	95.44997		110.9			99.3
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1224	1262	68.26895	1183	1284	95.44997		99			99.2
Prior M10c	1023	1151	68.26895	995	1158	95.44997	1034	1175	68.26895	1025	1264	95.44997		98			98.6
Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1206	1263	68.26895	1169	1278	95.44997		106.7			99.2
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1179	1248	68.26895	1067	1286	95.44997		110.7			99.3
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1098	1219	68.26895	1047	1263	95.44997		92			98.8
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1102	1232	68.26895	1052	1265	95.44997		91			98.9
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1084	1213	68.26895	1041	1261	95.44997		94.8			98.8
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1222	1263	68.26895	1183	1281	95.44997		100.2			99.1
Prior M17c	775	951	68.26895	774	977	95.44997	846	997	68.26895	776	1279	95.44997		93.3			98
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1191	1257	68.26895	1163	1279	95.44997		108.9			99.2

Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1214	1265	68.26895	1175	1279	95.44997		103.9			99
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1221	1264	68.26895	1181	1280	95.44997		101			99.2
Last M1c R4 TmodC							1240	1272	68.26895	1227	1290	95.44997					98.9
Boundary TS1 M1c Tau Mod Char R4							1243	1278	68.26895	1229	1296	95.44997					97

1.23.1 - Dataset M1c; Exponential Prior/Default Charcoal Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1c");
    Phase()
    {
      Date(Prior("M1c","M1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2c","M2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3c","M3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4c","M4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5c","M5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
    }
  }
};
```

```

Date(Prior("M6c", "M6c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M7c", "M7c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M8c", "M8c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M9c", "M9c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M10c", "M10c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M11c", "M11c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M12c", "M12c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M13c", "M13c.prior"))
{
  Outlier("Charcoal", 1);
};
Date(Prior("M14c", "M14c.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M15c", "M15c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M16c", "M16c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17c", "M17c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18c", "M18c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19c", "M19c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20c", "M20c.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1c Tau and Char R1");
};
};

```

1.23.2 - Dataset M1c; Run 1; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1c R1 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100.9 Aoverall 99.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-12	1	68.26895	-61	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	1.488	68.26895	3.60E-17	1.656	95.44997		100			96.2
Sequence																	
Tau_Boundary Model M1c							1203	1241	68.26895	1185	1267	95.44997					96.9
Phase																	
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1217	1265	68.26895	1179	1279	95.44997		108.6			98.1
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1231	1263	68.26895	1224	1281	95.44997		81.9			98.7
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1225	1265	68.26895	1186	1281	95.44997		112.4			98.6
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1091	1254	68.26895	1035	1278	95.44997		90.1			97.5
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1231	1263	68.26895	1223	1281	95.44997		88.8			98.6
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1229	1264	68.26895	1210	1284	95.44997		108.8			98.2
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1219	1265	68.26895	1181	1279	95.44997		110.5			97.9
Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1199	1260	68.26895	1165	1276	95.44997		105.4			98.1
Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1208	1263	68.26895	1172	1277	95.44997		104.4			97.5

Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1227	1264	68.26895	1189	1284	95.44997		111.3			98.5
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1229	1264	68.26895	1207	1284	95.44997		109.4			98.4
Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1125	1251	68.26895	1075	1277	95.44997		75.9			97.4
Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1170	1252	68.26895	1074	1283	95.44997		97.5			97.7
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1227	1264	68.26895	1189	1284	95.44997		110.6			98.8
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1189	1256	68.26895	1157	1280	95.44997		109.4			97.8
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1231	1265	68.26895	1225	1282	95.44997		63.3			98.8
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1192	1257	68.26895	1160	1278	95.44997		108.2			98
Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1178	1255	68.26895	1131	1283	95.44997		106.6			97.5
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1229	1264	68.26895	1212	1284	95.44997		107.7			98.6
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1217	1265	68.26895	1180	1279	95.44997		109.5			98.1
Boundary TS1 M1c Tau and Char R1							1249	1279	68.26895	1236	1289	95.44997					95.7

1.23.3 - Dataset M1c; Run 2; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1c R2 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.9 Aoverall 108.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-104	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	1.29	68.26895	3.60E-17	2.007	95.44997		100			97.6
Sequence																	
Tau_Boundary Model M1c							1129	1200	68.26895	1101	1265	95.44997					98.9
Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1225	1262	68.26895	1185	1286	95.44997		99.7			99.6
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1097	1223	68.26895	1051	1270	95.44997		91.7			99
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1222	1264	68.26895	1183	1282	95.44997		101.3			99.6
Prior M4c	775	879	68.26895	687	949	95.44997	786	956	68.26895	707	1286	95.44997		95			98.7
Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1162	1248	68.26895	1055	1280	95.44997		109.1			99.2
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1047	1204	68.26895	1037	1269	95.44997		97.9			99.1
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1226	1262	68.26895	1208	1289	95.44997		97.7			99.6
Prior M8c	899	1021	68.26895	892	1026	95.44997	906	1042	68.26895	894	1282	95.44997		103.8			99.1
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1227	1262	68.26895	1215	1288	95.44997		95.1			99.6
Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1162	1245	68.26895	1055	1281	95.44997		109			99.3
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1155	1253	68.26895	1055	1277	95.44997		102.7			99.1
Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1158	1252	68.26895	1055	1278	95.44997		105.8			99.3

Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1166	1248	68.26895	1056	1283	95.44997		110.7			99.3
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1190	1259	68.26895	1163	1280	95.44997		108.2			99.5
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1129	1254	68.26895	1057	1271	95.44997		95.1			99.1
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1180	1254	68.26895	1065	1287	95.44997		109.8			99.3
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1136	1254	68.26895	1056	1273	95.44997		98			99.2
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1225	1263	68.26895	1186	1286	95.44997		99.4			99.6
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1182	1252	68.26895	1071	1286	95.44997		109.5			99.4
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1155	1255	68.26895	1055	1277	95.44997		102.7			99.2
Boundary TS1 M1c Tau and Char R2							1245	1279	68.26895	1232	1296	95.44997					99.5

1.23.4 - Dataset M1c; Run 3; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1c R3 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 106.8 Aoverall 106.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-9	1	68.26895	-45	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	0.996	68.26895	3.60E-17	1.566	95.44997		100			98.8
Sequence																	
Tau_Boundary Model M1c							1109	1175	68.26895	1058	1201	95.44997					98.3
Phase																	
Prior M1c	775	974	68.26895	775	991	95.44997	882	993	68.26895	777	1025	95.44997		102.2			98.6
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1049	1168	68.26895	1030	1212	95.44997		99.1			98.9
Prior M3c	434	541	68.26895	418	562	95.44997	462	564	68.26895	422	598	95.44997		96.4			98.3
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1180	1253	68.26895	1071	1282	95.44997		106.2			98.7
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1169	1234	68.26895	1055	1279	95.44997		107.3			98.8
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1072	1222	68.26895	1046	1238	95.44997		96.1			98.8
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1209	1265	68.26895	1169	1276	95.44997		104.8			99
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1158	1231	68.26895	1053	1263	95.44997		107.2			99
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1222	1264	68.26895	1180	1280	95.44997		102.8			98.7
Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1072	1223	68.26895	1046	1239	95.44997		97			98.4
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1215	1266	68.26895	1172	1277	95.44997		104.4			99
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1216	1266	68.26895	1173	1278	95.44997		104.2			98.8
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1180	1252	68.26895	1157	1282	95.44997		106.3			99.1
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1225	1262	68.26895	1183	1285	95.44997		101			98.9
Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1075	1213	68.26895	1040	1226	95.44997		93.9			98.6

Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1072	1224	68.26895	1047	1241	95.44997		97.8			98.7
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1071	1221	68.26895	1044	1235	95.44997		95.1			98.6
Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1226	1262	68.26895	1185	1287	95.44997		99.6			98.5
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1073	1230	68.26895	1052	1253	95.44997		104.1			99
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1186	1263	68.26895	1165	1276	95.44997		105.6			98.7
Last M1c R3 TandC							1246	1275	68.26895	1229	1290	95.44997					98.9
Boundary TS1 M1c Tau and Char R3							1249	1282	68.26895	1233	1302	95.44997					97

1.23.5 - Dataset M1c; Run 4; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1c R4 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.7 Aoverall 96.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-118	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	1.917	68.26895	3.60E-17	1.95	95.44997		100			95
Sequence																	
Tau_Boundary Model M1c							1137	1208	68.26895	1108	1267	95.44997					96.6
Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1086	1219	68.26895	1048	1272	95.44997		93.4			98.1

Prior M2c	1034	1153	68.26895	997	1167	95.44997	1081	1209	68.26895	1039	1270	95.44997		97.5			98
Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1226	1262	68.26895	1217	1291	95.44997		89.3			99.1
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1127	1248	68.26895	1055	1273	95.44997		92.2			97.9
Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1215	1267	68.26895	1175	1283	95.44997		103.9			99.2
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1177	1249	68.26895	1060	1289	95.44997		111.2			98.6
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1121	1249	68.26895	1054	1273	95.44997		91.1			98
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1167	1247	68.26895	1056	1286	95.44997		110.8			98.8
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1224	1264	68.26895	1184	1287	95.44997		99.1			99.1
Prior M10c	1023	1151	68.26895	995	1158	95.44997	1032	1251	68.26895	1027	1272	95.44997		98.1			97.8
Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1206	1265	68.26895	1169	1281	95.44997		106.7			98.9
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1183	1252	68.26895	1067	1291	95.44997		110.5			98.9
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1094	1222	68.26895	1049	1273	95.44997		92.2			97.9
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1120	1247	68.26895	1054	1272	95.44997		91.1			98.1
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1083	1216	68.26895	1044	1271	95.44997		95			97.9
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1222	1264	68.26895	1183	1284	95.44997		100.2			99.1
Prior M17c	775	951	68.26895	774	977	95.44997	842	999	68.26895	777	1287	95.44997		93.4			96.9
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1191	1260	68.26895	1163	1283	95.44997		108.8			98.9
Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1215	1267	68.26895	1176	1283	95.44997		103.9			99
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1221	1265	68.26895	1181	1283	95.44997		101.1			99.1
Last M1c R4 TandC							1240	1274	68.26895	1227	1293	95.44997					98.7

Boundary TS1 M1c Tau and Char R4							1243	1279	68.26895	1229	1299	95.44997					97.3
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1.24.1 - Dataset M1c; Uniform Prior/No Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Boundary("Model M1c");
    Phase()
    {
      Date(Prior("M1c", "M1c.prior"));
      Date(Prior("M2c", "M2c.prior"));
      Date(Prior("M3c", "M3c.prior"));
      Date(Prior("M4c", "M4c.prior"));
      Date(Prior("M5c", "M5c.prior"));
      Date(Prior("M6c", "M6c.prior"));
      Date(Prior("M7c", "M7c.prior"));
      Date(Prior("M8c", "M8c.prior"));
      Date(Prior("M9c", "M9c.prior"));
      Date(Prior("M10c", "M10c.prior"));
      Date(Prior("M11c", "M11c.prior"));
      Date(Prior("M12c", "M12c.prior"));
      Date(Prior("M13c", "M13c.prior"));
      Date(Prior("M14c", "M14c.prior"));
      Date(Prior("M15c", "M15c.prior"));
      Date(Prior("M16c", "M16c.prior"));
      Date(Prior("M17c", "M17c.prior"));
      Date(Prior("M18c", "M18c.prior"));
      Date(Prior("M19c", "M19c.prior"));
      Date(Prior("M20c", "M20c.prior"));
    };
    Boundary("TS1 M1c Uniform R1");
  };
};
```


};

1.24.2 - Dataset M1c; Run 1; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1c R1 Uniform	Un mo dell ed (BC/ AD)						Modelle d (BC/AD)						Indices Amodel 82.6 Aoverall 70.4				
	fro m	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1c							1140	1201	68.26895	1117	1212	95.44997					95.4
Phase																	
Prior M1c	117 6	1260	68.26895	1053	1273	95.44997	1185	1249	68.26895	1168	1262	95.44997		110.4			99.8
Prior M2c	123 0	1282	68.26895	1221	1293	95.44997	1221	1267	68.26895	1219	1277	95.44997		81.9			99.8
Prior M3c	121 5	1267	68.26895	1168	1274	95.44997	1212	1256	68.26895	1177	1267	95.44997		105.3			99.8
Prior M4c	102 6	1151	68.26895	995	1159	95.44997	1145	1215	68.26895	1135	1219	95.44997		30.2			99.5
Prior M5c	122 9	1280	68.26895	1220	1290	95.44997	1221	1253	68.26895	1218	1277	95.44997		87.6			99.7
Prior M6c	122 3	1266	68.26895	1178	1279	95.44997	1218	1254	68.26895	1180	1272	95.44997		101.8			99.8
Prior M7c	117 9	1261	68.26895	1159	1273	95.44997	1201	1252	68.26895	1169	1264	95.44997		109.2			99.8

Prior M8c	115 8	1224	68.26895	1048	1265	95.44997	1180	1223	68.26895	1160	1254	95.44997		116			99.8
Prior M9c	116 3	1252	68.26895	1051	1268	95.44997	1180	1229	68.26895	1164	1258	95.44997		112.8			99.8
Prior M10c	121 9	1266	68.26895	1168	1277	95.44997	1216	1256	68.26895	1179	1270	95.44997		103.5			99.9
Prior M11c	122 2	1265	68.26895	1177	1278	95.44997	1218	1254	68.26895	1180	1272	95.44997		102.2			99.7
Prior M12c	104 1	1156	68.26895	1027	1201	95.44997	1151	1217	68.26895	1137	1220	95.44997		44.1			99.6
Prior M13c	104 9	1214	68.26895	1040	1219	95.44997	1173	1219	68.26895	1143	1227	95.44997		100.4			99.7
Prior M14c	122 0	1266	68.26895	1175	1277	95.44997	1216	1255	68.26895	1179	1270	95.44997		103.1			99.8
Prior M15c	105 3	1220	68.26895	1043	1258	95.44997	1181	1221	68.26895	1154	1253	95.44997		118.8			99.7
Prior M16c	123 2	1290	68.26895	1222	1376	95.44997	1222	1270	68.26895	1220	1278	95.44997		66.2			99.7
Prior M17c	105 3	1221	68.26895	1046	1261	95.44997	1181	1222	68.26895	1156	1253	95.44997		118.3			99.7
Prior M18c	105 2	1216	68.26895	1040	1222	95.44997	1174	1220	68.26895	1147	1251	95.44997		113.5			99.7
Prior M19c	122 4	1266	68.26895	1179	1279	95.44997	1219	1253	68.26895	1181	1274	95.44997		101.3			99.8
Prior M20c	117 8	1260	68.26895	1054	1273	95.44997	1185	1251	68.26895	1169	1263	95.44997		110			99.8
Boundary TS1 M1c Uniform R1							1244	1280	68.26895	1228	1292	95.44997					96.8

1.24.3 - Dataset M1c; Run 2; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1c R2 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 69.3 Aoverall 70				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1c							920	975	68.26895	852	990	95.44997					97.2
Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1222	1261	68.26895	1178	1277	95.44997		100.4			99.6
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1043	1163	68.26895	1033	1210	95.44997		100			99.6
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1219	1262	68.26895	1175	1274	95.44997		100.5			99.5
Prior M4c	775	879	68.26895	687	949	95.44997	936	990	68.26895	865	993	95.44997		18			99.3
Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1053	1217	68.26895	1041	1224	95.44997		100.2			99.6
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1035	1153	68.26895	998	1167	95.44997		100			99.6
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1223	1258	68.26895	1180	1279	95.44997		99.9			99.6
Prior M8c	899	1021	68.26895	892	1026	95.44997	974	1022	68.26895	904	1031	95.44997		109.2			99.4
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1224	1266	68.26895	1182	1280	95.44997		98.8			99.6
Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1053	1217	68.26895	1041	1224	95.44997		100.1			99.6
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1049	1215	68.26895	1041	1220	95.44997		100			99.6

Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1051	1216	68.26895	1041	1221	95.44997		100.1			99.5
Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1053	1220	68.26895	1042	1255	95.44997		100.2			99.6
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1164	1251	68.26895	1052	1266	95.44997		101.1			99.6
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1046	1202	68.26895	1039	1215	95.44997		100			99.5
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1160	1223	68.26895	1048	1264	95.44997		100.8			99.6
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1048	1210	68.26895	1040	1217	95.44997		100			99.6
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1222	1260	68.26895	1179	1277	95.44997		100.3			99.6
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1160	1224	68.26895	1048	1265	95.44997		100.7			99.6
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1049	1215	68.26895	1040	1219	95.44997		100.1			99.7
Boundary TS1 M1c Uniform R2							1254	1289	68.26895	1236	1319	95.44997					98.3

1.24.4 - Dataset M1c; Run 3; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1c R3 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 94.8 Aoverall 94.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C	
Sequence																		
Boundary Model M1c							464	561	68.26895	381	595	95.44997					97	

Phase																	
Prior M1c	775	974	68.26895	775	991	95.44997	775	974	68.26895	774	991	95.44997		99.9			99.4
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1034	1152	68.26895	997	1166	95.44997		99.9			99.5
Prior M3c	434	541	68.26895	418	562	95.44997	506	575	68.26895	451	601	95.44997		75.6			99.5
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1164	1252	68.26895	1052	1267	95.44997		100.4			99.5
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1159	1224	68.26895	1048	1265	95.44997		100.1			99.6
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1046	1203	68.26895	1039	1214	95.44997		100			99.5
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1180	1263	68.26895	1163	1271	95.44997		100.4			99.6
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1053	1217	68.26895	1040	1224	95.44997		100.1			99.5
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1219	1264	68.26895	1175	1276	95.44997		100.5			99.5
Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1047	1206	68.26895	1039	1216	95.44997		100			99.6
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1181	1265	68.26895	1165	1271	95.44997		100.3			99.6
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1182	1265	68.26895	1166	1271	95.44997		100.4			99.5
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1164	1251	68.26895	1052	1267	95.44997		100.4			99.5
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1224	1264	68.26895	1179	1279	95.44997		100.8			99.5
Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1044	1162	68.26895	1032	1209	95.44997		100			99.6
Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1048	1209	68.26895	1039	1217	95.44997		100			99.5
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1046	1200	68.26895	1038	1213	95.44997		100			99.5
Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1225	1266	68.26895	1180	1281	95.44997		100.5			99.6
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1051	1216	68.26895	1040	1221	95.44997		100			99.6
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1178	1260	68.26895	1055	1271	95.44997		100.4			99.5

Last M1c R3 Uniform							1255	1274	68.26895	1240	1280	95.44997					99.8
Boundary TS1 M1c Uniform R3							1257	1310	68.26895	1242	1384	95.44997					98.1

1.24.5 - Dataset M1c; Run 4; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1c R4 Uniform	Unmodel led (BC/AD)						Modelled (BC/AD)						Indices Amodel 85.2 Aoverall 85				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1c							939	989	68.26895	903	1018	95.44997					97.1
Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1040	1156	68.26895	1027	1201	95.44997		100			99.3
Prior M2c	1034	1153	68.26895	997	1167	95.44997	1034	1152	68.26895	998	1168	95.44997		100			99.2
Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1224	1266	68.26895	1216	1281	95.44997		95.9			99.2
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1045	1198	68.26895	1036	1213	95.44997		100			99.1
Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1180	1261	68.26895	1164	1269	95.44997		100.2			99
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1054	1222	68.26895	1047	1260	95.44997		100.4			99.3
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1043	1165	68.26895	1034	1211	95.44997		99.9			99.1
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1053	1219	68.26895	1040	1227	95.44997		100.2			99.3
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1221	1260	68.26895	1178	1276	95.44997		100.2			99.1

Prior M10c	1023	1151	68.26895	995	1158	95.44997	1023	1151	68.26895	995	1158	95.44997		100.3			99.3
Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1177	1255	68.26895	1055	1270	95.44997		100.9			99.1
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1159	1223	68.26895	1048	1263	95.44997		100.8			99.3
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1043	1158	68.26895	1028	1204	95.44997		100			99.2
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1044	1165	68.26895	1034	1211	95.44997		100.1			99
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1037	1155	68.26895	1025	1199	95.44997		100.1			99.2
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1219	1261	68.26895	1168	1274	95.44997		100.1			99.2
Prior M17c	775	951	68.26895	774	977	95.44997	957	1017	68.26895	929	1022	95.44997		47.9			99.2
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1164	1228	68.26895	1052	1266	95.44997		101.4			99.3
Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1181	1261	68.26895	1164	1269	95.44997		100.2			99.2
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1217	1263	68.26895	1170	1272	95.44997		100.2			99.4
Last M1c R4 Uniform							1249	1272	68.26895	1234	1279	95.44997					99.5
Boundary TS1 M1c Uniform R4							1252	1286	68.26895	1234	1314	95.44997					98.6

1.25.1 - Dataset M1c; Uniform Prior/100-Year Charcoal; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Plot()  
{  
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2),"t");  
  Sequence()  
  {  
    Boundary("Model M1c");  
    Phase()  
    {  
      Date(Prior("M1c","M1c.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M2c","M2c.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M3c","M3c.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M4c","M4c.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M5c","M5c.prior"))  
      {  
        Outlier("Charcoal", 1);  
      };  
      Date(Prior("M6c","M6c.prior"))  
      {
```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M7c", "M7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8c", "M8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9c", "M9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10c", "M10c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11c", "M11c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12c", "M12c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13c", "M13c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14c", "M14c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15c", "M15c.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16c", "M16c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17c", "M17c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18c", "M18c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19c", "M19c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20c", "M20c.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1c Mod Char R1");
};
};

```

1.25.2 - Dataset M1c; Run 1; Uniform Prior /100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R1 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.5 Aoverall 92.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-26	1	68.26895	-98	1	95.44997					99.7
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	0.888	1.826	68.26895	0.012	1.842	95.44997		100			98.9
Sequence																	
Boundary Model M1c							1156	1258	68.26895	1131	1271	95.44997					96.3
Phase																	
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1220	1271	68.26895	1180	1284	95.44997		109.3			99.5
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1235	1271	68.26895	1224	1288	95.44997		83.8			99.8
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1228	1271	68.26895	1186	1287	95.44997		108			99.7
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1195	1271	68.26895	1143	1281	95.44997		69			98.5
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1235	1271	68.26895	1223	1288	95.44997		89.4			99.8
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1232	1270	68.26895	1205	1291	95.44997		104.7			99.8
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1222	1271	68.26895	1182	1284	95.44997		109.5			99.5
Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1209	1268	68.26895	1172	1282	95.44997		111.4			99.1
Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1214	1270	68.26895	1176	1284	95.44997		109			99.3
Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1230	1270	68.26895	1187	1289	95.44997		106.5			99.7
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1231	1270	68.26895	1189	1291	95.44997		105.3			99.8

Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1196	1269	68.26895	1148	1282	95.44997		62.5			98.6
Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1199	1266	68.26895	1160	1282	95.44997		99.7			98.8
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1230	1270	68.26895	1187	1289	95.44997		106.2			99.7
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1204	1267	68.26895	1167	1282	95.44997		114.7			99
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1235	1273	68.26895	1225	1289	95.44997		68.8			99.8
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1206	1267	68.26895	1169	1282	95.44997		114			99
Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1201	1266	68.26895	1163	1282	95.44997		110.7			98.9
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1232	1270	68.26895	1210	1291	95.44997		103.9			99.8
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1221	1271	68.26895	1181	1284	95.44997		109.4			99.6
Boundary TS1 M1c Mod Char R1							1254	1289	68.26895	1236	1307	95.44997					99.1

1.25.3 - Dataset M1c; Run 2; Uniform Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R2 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 107.9 Aoverall 107.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-85	-3	68.26895	-389	1	95.44997					98.9
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	1.832	2	68.26895	1.666	2	95.44997		100			98.9
Sequence																	
Boundary Model M1c							1193	1256	68.26895	1114	1279	95.44997					88.1

Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1236	1273	68.26895	1218	1302	95.44997		96.7			97.8
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1221	1271	68.26895	1163	1296	95.44997		90			96.7
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1234	1273	68.26895	1211	1300	95.44997		97.9			98.2
Prior M4c	775	879	68.26895	687	949	95.44997	1220	1272	68.26895	1145	1302	95.44997		90.3			96.9
Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1223	1270	68.26895	1180	1295	95.44997		111			97.2
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1220	1272	68.26895	1157	1296	95.44997		96.8			96.5
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1236	1273	68.26895	1222	1301	95.44997		95.2			97.8
Prior M8c	899	1021	68.26895	892	1026	95.44997	1220	1272	68.26895	1146	1302	95.44997		104			96.7
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1237	1273	68.26895	1224	1301	95.44997		93.5			97.6
Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1223	1270	68.26895	1180	1295	95.44997		110.9			97.1
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1222	1270	68.26895	1174	1295	95.44997		103.6			97.1
Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1222	1270	68.26895	1177	1295	95.44997		107.3			97.2
Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1223	1270	68.26895	1183	1294	95.44997		113.1			97.4
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1227	1271	68.26895	1194	1294	95.44997		110.1			98
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1221	1270	68.26895	1169	1296	95.44997		94.6			96.9
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1225	1270	68.26895	1189	1294	95.44997		112.3			97.7
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1221	1270	68.26895	1171	1296	95.44997		98.1			96.8
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1236	1273	68.26895	1219	1301	95.44997		96.6			98
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1225	1270	68.26895	1190	1294	95.44997		112			97.7
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1222	1270	68.26895	1174	1295	95.44997		103.6			97.1
Boundary TS1 M1c Mod Char R2							1248	1292	68.26895	1235	1325	95.44997					89.6

1.25.4 - Dataset M1c; Run 3; Uniform Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R3 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 104.3 Aoverall 103.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-93	-4	68.26895	-770	1	95.44997					99.3
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											100
U(0,2)	1.99 E-17	2	68.26895	1.99E- 17	2	95.44997	1.926	2	68.26895	1.866	2	95.44997		100			99.3
Sequence																	
Boundary Model M1c							1212	1261	68.26895	1168	1275	95.44997					93.1
Phase																	
Prior M1c	775	974	68.26895	775	991	95.44997	1231	1273	68.26895	1191	1295	95.44997		102.2			98.7
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1231	1273	68.26895	1192	1295	95.44997		98			98.7
Prior M3c	434	541	68.26895	418	562	95.44997	1231	1273	68.26895	1190	1295	95.44997		93.4			98.6
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1234	1272	68.26895	1207	1294	95.44997		109.5			98.9
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1233	1272	68.26895	1204	1294	95.44997		111.2			98.7
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1232	1272	68.26895	1196	1294	95.44997		94.9			98.6
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1236	1273	68.26895	1212	1297	95.44997		104			99
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1232	1272	68.26895	1200	1293	95.44997		110.2			98.7
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1238	1274	68.26895	1219	1298	95.44997		99.3			99.1

Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1232	1273	68.26895	1196	1294	95.44997		96.1			98.6
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1237	1274	68.26895	1214	1297	95.44997		102.4			99
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1237	1274	68.26895	1214	1297	95.44997		101.8			99
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1234	1272	68.26895	1206	1295	95.44997		109.7			98.9
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1240	1274	68.26895	1224	1298	95.44997		97.4			99
Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1231	1273	68.26895	1194	1295	95.44997		91.1			98.6
Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1232	1273	68.26895	1197	1294	95.44997		97.4			98.7
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1231	1272	68.26895	1196	1294	95.44997		93.3			98.6
Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1240	1274	68.26895	1226	1298	95.44997		96.6			98.8
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1232	1272	68.26895	1199	1294	95.44997		105.9			98.6
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1236	1273	68.26895	1210	1296	95.44997		106.3			98.9
Last M1c R3 modChar							1251	1288	68.26895	1236	1315	95.44997					96.6
Boundary TS1 M1c Mod Char R3							1250	1291	68.26895	1235	1323	95.44997					93

1.25.5 - Dataset M1c; Run 4; Uniform Prior/100-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R4 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 93.3 Aoverall 92.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-79	0	68.26895	-225	1	95.44997					99.5
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	1.75	2	68.26895	1.388	2	95.44997		100			99.3
Sequence																	
Boundary Model M1c							1161	1256	68.26895	1035	1276	95.44997					95.4
Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1201	1274	68.26895	1112	1294	95.44997		93.4			99.5
Prior M2c	1034	1153	68.26895	997	1167	95.44997	1199	1274	68.26895	1110	1293	95.44997		97.4			99.3
Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1236	1275	68.26895	1223	1303	95.44997		89.6			99.7
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1205	1272	68.26895	1119	1296	95.44997		92.5			99.5
Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1227	1273	68.26895	1189	1296	95.44997		100.4			99.7
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1214	1270	68.26895	1165	1297	95.44997		112.6			99.6
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1204	1273	68.26895	1116	1296	95.44997		91.4			99.4
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1211	1270	68.26895	1151	1300	95.44997		111.5			99.5
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1233	1274	68.26895	1207	1303	95.44997		95.5			99.7
Prior M10c	1023	1151	68.26895	995	1158	95.44997	1197	1274	68.26895	1106	1294	95.44997		97.8			99.3

Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1224	1273	68.26895	1184	1295	95.44997		105.1			99.7
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1216	1270	68.26895	1170	1295	95.44997		111.9			99.6
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1202	1273	68.26895	1111	1294	95.44997		92.2			99.4
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1204	1273	68.26895	1116	1296	95.44997		91.4			99.4
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1200	1274	68.26895	1110	1293	95.44997		95.1			99.4
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1232	1273	68.26895	1200	1301	95.44997		96.1			99.7
Prior M17c	775	951	68.26895	774	977	95.44997	1196	1275	68.26895	986	1298	95.44997		88.6			99.4
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1220	1271	68.26895	1179	1294	95.44997		109.5			99.7
Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1227	1273	68.26895	1189	1296	95.44997		100.3			99.7
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1231	1273	68.26895	1196	1299	95.44997		96.6			99.7
Last M1c R4 modChar							1250	1291	68.26895	1233	1318	95.44997					99.2
Boundary TS1 M1c Mod Char R4							1251	1297	68.26895	1233	1331	95.44997					98.2

1.26.1 - Dataset M1c; Uniform Prior/Default Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model M1c");
    Phase()
    {
      Date(Prior("M1c","M1c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2c","M2c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3c","M3c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4c","M4c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5c","M5c.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6c","M6c.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7c", "M7c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8c", "M8c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9c", "M9c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10c", "M10c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11c", "M11c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12c", "M12c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13c", "M13c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14c", "M14c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15c", "M15c.prior"))
{

```

```
    Outlier("Charcoal", 1);
};
Date(Prior("M16c", "M16c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17c", "M17c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18c", "M18c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19c", "M19c.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20c", "M20c.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1c Char R1");
};
};
```

1.26.2 - Dataset M1c; Run 1; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.3 Aoverall 92.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-25	1	68.26895	-97	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	0.924	1.815	68.26895	3.60E- 17	1.827	95.44997		100			98.7
Sequence																	
Boundary Model M1c							1152	1256	68.26895	1130	1271	95.44997					97.9
Phase																	
Prior M1c	1176	1260	68.26895	1053	1273	95.44997	1219	1270	68.26895	1180	1284	95.44997		109.4			99.7
Prior M2c	1230	1282	68.26895	1221	1293	95.44997	1234	1271	68.26895	1224	1288	95.44997		83.7			99.7
Prior M3c	1215	1267	68.26895	1168	1274	95.44997	1227	1270	68.26895	1187	1286	95.44997		108			99.7
Prior M4c	1026	1151	68.26895	995	1159	95.44997	1156	1270	68.26895	1143	1282	95.44997		68.2			99.3
Prior M5c	1229	1280	68.26895	1220	1290	95.44997	1234	1270	68.26895	1223	1288	95.44997		89.2			99.7
Prior M6c	1223	1266	68.26895	1178	1279	95.44997	1231	1269	68.26895	1205	1291	95.44997		104.5			99.7
Prior M7c	1179	1261	68.26895	1159	1273	95.44997	1221	1270	68.26895	1182	1284	95.44997		109.6			99.7
Prior M8c	1158	1224	68.26895	1048	1265	95.44997	1208	1267	68.26895	1172	1282	95.44997		111.5			99.5

Prior M9c	1163	1252	68.26895	1051	1268	95.44997	1213	1269	68.26895	1176	1283	95.44997		109.1			99.6
Prior M10c	1219	1266	68.26895	1168	1277	95.44997	1229	1270	68.26895	1187	1289	95.44997		106.4			99.7
Prior M11c	1222	1265	68.26895	1177	1278	95.44997	1230	1269	68.26895	1203	1291	95.44997		105.2			99.7
Prior M12c	1041	1156	68.26895	1027	1201	95.44997	1196	1268	68.26895	1148	1282	95.44997		62.1			99.2
Prior M13c	1049	1214	68.26895	1040	1219	95.44997	1198	1265	68.26895	1160	1282	95.44997		99.6			99.4
Prior M14c	1220	1266	68.26895	1175	1277	95.44997	1229	1270	68.26895	1187	1289	95.44997		106			99.7
Prior M15c	1053	1220	68.26895	1043	1258	95.44997	1203	1266	68.26895	1167	1282	95.44997		114.8			99.4
Prior M16c	1232	1290	68.26895	1222	1376	95.44997	1234	1273	68.26895	1225	1290	95.44997		68.8			99.7
Prior M17c	1053	1221	68.26895	1046	1261	95.44997	1205	1266	68.26895	1169	1282	95.44997		114			99.4
Prior M18c	1052	1216	68.26895	1040	1222	95.44997	1200	1265	68.26895	1163	1282	95.44997		110.8			99.4
Prior M19c	1224	1266	68.26895	1179	1279	95.44997	1231	1269	68.26895	1209	1291	95.44997		103.8			99.7
Prior M20c	1178	1260	68.26895	1054	1273	95.44997	1220	1270	68.26895	1181	1284	95.44997		109.5			99.6
Boundary TS1 M1c Char R1							1253	1290	68.26895	1235	1306	95.44997					99.1

1.26.3 - Dataset M1c; Run 2; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 108.1 Aoverall 107.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-94	-3	68.26895	-392	1	95.44997					99.3
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	1.8	2.082	68.26895	1.644	2.229	95.44997		100			97.5
Sequence																	
Boundary Model M1c							1199	1261	68.26895	1133	1287	95.44997					95.8
Phase																	
Prior M1c	1225	1267	68.26895	1179	1280	95.44997	1238	1277	68.26895	1221	1305	95.44997		97.8			99.5
Prior M2c	1044	1163	68.26895	1033	1210	95.44997	1226	1277	68.26895	1172	1304	95.44997		91			99.5
Prior M3c	1220	1266	68.26895	1175	1278	95.44997	1237	1277	68.26895	1215	1305	95.44997		98.9			99.7
Prior M4c	775	879	68.26895	687	949	95.44997	1225	1278	68.26895	1159	1309	95.44997		92.4			99.5
Prior M5c	1053	1217	68.26895	1040	1224	95.44997	1227	1276	68.26895	1185	1302	95.44997		109.9			99.5
Prior M6c	1034	1153	68.26895	997	1167	95.44997	1226	1277	68.26895	1166	1305	95.44997		97.5			99.4
Prior M7c	1227	1272	68.26895	1181	1283	95.44997	1239	1277	68.26895	1224	1305	95.44997		96.5			99.5
Prior M8c	899	1021	68.26895	892	1026	95.44997	1225	1278	68.26895	1160	1310	95.44997		103.7			99.4
Prior M9c	1228	1275	68.26895	1214	1287	95.44997	1239	1277	68.26895	1226	1304	95.44997		94.7			99.6

Prior M10c	1053	1217	68.26895	1040	1224	95.44997	1227	1276	68.26895	1186	1302	95.44997		110			99.5
Prior M11c	1049	1215	68.26895	1040	1219	95.44997	1227	1276	68.26895	1181	1303	95.44997		103.2			99.5
Prior M12c	1051	1216	68.26895	1040	1221	95.44997	1227	1276	68.26895	1183	1303	95.44997		106.5			99.4
Prior M13c	1053	1220	68.26895	1043	1258	95.44997	1228	1276	68.26895	1189	1301	95.44997		111.9			99.5
Prior M14c	1165	1253	68.26895	1052	1268	95.44997	1231	1276	68.26895	1197	1301	95.44997		108.9			99.5
Prior M15c	1047	1202	68.26895	1039	1214	95.44997	1227	1276	68.26895	1176	1304	95.44997		95.2			99.5
Prior M16c	1159	1224	68.26895	1048	1266	95.44997	1229	1276	68.26895	1193	1301	95.44997		111			99.5
Prior M17c	1048	1210	68.26895	1040	1217	95.44997	1227	1276	68.26895	1178	1304	95.44997		98.2			99.5
Prior M18c	1226	1267	68.26895	1179	1280	95.44997	1239	1277	68.26895	1222	1305	95.44997		97.8			99.6
Prior M19c	1159	1225	68.26895	1048	1267	95.44997	1229	1276	68.26895	1194	1301	95.44997		110.7			99.6
Prior M20c	1049	1215	68.26895	1040	1219	95.44997	1227	1276	68.26895	1180	1303	95.44997		103.2			99.5
Boundary TS1 M1c Char R2							1252	1298	68.26895	1237	1332	95.44997					97.7

1.26.4 - Dataset M1c; Run 3; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R3 Char	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
Outlier_Model Charcoal							-112	-5	68.26895	-791	1	95.44997					97.8

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	1.956	2.196	68.26895	1.872	2.322	95.44997		100		96.8
Sequence																
Boundary Model M1c							1214	1269	68.26895	1164	1291	95.44997				91.9
Phase																
Prior M1c	775	974	68.26895	775	991	95.44997	1236	1285	68.26895	1190	1319	95.44997		102		98.8
Prior M2c	1034	1152	68.26895	997	1166	95.44997	1236	1285	68.26895	1191	1317	95.44997		98.9		98.6
Prior M3c	434	541	68.26895	418	562	95.44997	1236	1285	68.26895	1190	1318	95.44997		95.9		98.8
Prior M4c	1164	1252	68.26895	1052	1268	95.44997	1239	1284	68.26895	1207	1315	95.44997		107.2		98.8
Prior M5c	1159	1224	68.26895	1048	1266	95.44997	1238	1284	68.26895	1205	1315	95.44997		108.6		98.8
Prior M6c	1047	1202	68.26895	1039	1214	95.44997	1236	1284	68.26895	1196	1316	95.44997		96.2		98.6
Prior M7c	1180	1264	68.26895	1163	1272	95.44997	1242	1285	68.26895	1214	1316	95.44997		103.4		99.1
Prior M8c	1053	1217	68.26895	1040	1224	95.44997	1237	1284	68.26895	1200	1315	95.44997		107.9		98.7
Prior M9c	1220	1266	68.26895	1175	1277	95.44997	1244	1285	68.26895	1221	1317	95.44997		100.5		99.3
Prior M10c	1047	1207	68.26895	1039	1216	95.44997	1236	1284	68.26895	1197	1316	95.44997		97		98.7
Prior M11c	1182	1266	68.26895	1166	1272	95.44997	1242	1285	68.26895	1217	1316	95.44997		102.4		99
Prior M12c	1182	1266	68.26895	1167	1273	95.44997	1242	1285	68.26895	1216	1316	95.44997		102.3		99.1
Prior M13c	1164	1252	68.26895	1052	1268	95.44997	1239	1284	68.26895	1207	1315	95.44997		107.3		98.8
Prior M14c	1226	1268	68.26895	1179	1281	95.44997	1246	1286	68.26895	1227	1316	95.44997		99.4		99.3

Prior M15c	1044	1162	68.26895	1032	1209	95.44997	1236	1284	68.26895	1194	1317	95.44997		93.6			98.6
Prior M16c	1048	1209	68.26895	1040	1217	95.44997	1236	1284	68.26895	1197	1317	95.44997		98			98.6
Prior M17c	1046	1200	68.26895	1038	1213	95.44997	1236	1284	68.26895	1195	1316	95.44997		95.1			98.7
Prior M18c	1227	1272	68.26895	1180	1283	95.44997	1246	1286	68.26895	1228	1316	95.44997		98.5			99.4
Prior M19c	1051	1216	68.26895	1040	1221	95.44997	1236	1284	68.26895	1199	1315	95.44997		104.5			98.6
Prior M20c	1178	1261	68.26895	1055	1273	95.44997	1241	1285	68.26895	1212	1315	95.44997		105			99
Last M1c R3 Char							1259	1303	68.26895	1240	1340	95.44997					98.2
Boundary TS1 M1c Char R3							1260	1306	68.26895	1240	1348	95.44997					95.8

1.26.5 - Dataset M1c; Run 4; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1c R4 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95 Aoverall 94.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-82	0	68.26895	-230	1	95.44997					98.5
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	1.665	2.055	68.26895	1.275	2.256	95.44997		100			97.9
Sequence																	
Boundary Model M1c							1148	1258	68.26895	970	1280	95.44997					92.1

Phase																	
Prior M1c	1040	1156	68.26895	1027	1201	95.44997	1191	1280	68.26895	1101	1303	95.44997		94.8			97.2
Prior M2c	1034	1153	68.26895	997	1167	95.44997	1188	1280	68.26895	1097	1302	95.44997		98.4			97.3
Prior M3c	1229	1278	68.26895	1218	1288	95.44997	1239	1281	68.26895	1223	1312	95.44997		91.9			99.5
Prior M4c	1045	1198	68.26895	1036	1212	95.44997	1197	1279	68.26895	1104	1304	95.44997		93.8			97.5
Prior M5c	1181	1265	68.26895	1165	1272	95.44997	1228	1279	68.26895	1186	1305	95.44997		100.1			99.4
Prior M6c	1054	1222	68.26895	1047	1263	95.44997	1209	1275	68.26895	1159	1311	95.44997		111			98.2
Prior M7c	1044	1165	68.26895	1034	1211	95.44997	1196	1279	68.26895	1102	1304	95.44997		92.9			97.5
Prior M8c	1053	1219	68.26895	1040	1252	95.44997	1206	1275	68.26895	1137	1311	95.44997		110.1			98.1
Prior M9c	1224	1266	68.26895	1178	1279	95.44997	1236	1280	68.26895	1204	1312	95.44997		96.5			99.5
Prior M10c	1023	1151	68.26895	995	1158	95.44997	1186	1280	68.26895	1093	1303	95.44997		98.4			97.2
Prior M11c	1178	1261	68.26895	1055	1273	95.44997	1223	1279	68.26895	1181	1304	95.44997		104.1			99
Prior M12c	1158	1224	68.26895	1048	1265	95.44997	1212	1275	68.26895	1165	1307	95.44997		110.6			98.4
Prior M13c	1043	1158	68.26895	1028	1203	95.44997	1192	1280	68.26895	1101	1303	95.44997		93.8			97.4
Prior M14c	1044	1165	68.26895	1034	1211	95.44997	1195	1279	68.26895	1102	1304	95.44997		92.9			97.6
Prior M15c	1037	1155	68.26895	1025	1199	95.44997	1190	1280	68.26895	1099	1302	95.44997		96.2			97.3
Prior M16c	1221	1265	68.26895	1175	1278	95.44997	1234	1280	68.26895	1197	1309	95.44997		96.7			99.6
Prior M17c	775	951	68.26895	774	977	95.44997	1182	1282	68.26895	971	1308	95.44997		88.8			97.4
Prior M18c	1165	1253	68.26895	1052	1268	95.44997	1217	1277	68.26895	1174	1304	95.44997		108.1			98.7
Prior M19c	1181	1265	68.26895	1165	1272	95.44997	1228	1280	68.26895	1187	1305	95.44997		100			99.4
Prior M20c	1219	1266	68.26895	1168	1276	95.44997	1232	1280	68.26895	1193	1307	95.44997		97.2			99.5
Last M1c R4 Char							1255	1298	68.26895	1235	1330	95.44997					98.4
Boundary TS1 M1c Char R4							1257	1306	68.26895	1235	1344	95.44997					96.1

1.27.1 - Dataset M1d; Combine Model; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Combine(TS1_M1d_R2)  
{  
  Date(Prior("M1d","M1d.prior"));  
  Date(Prior("M2d","M2d.prior"));  
  Date(Prior("M3d","M3d.prior"));  
  Date(Prior("M4d","M4d.prior"));  
  Date(Prior("M5d","M5d.prior"));  
  Date(Prior("M6d","M6d.prior"));  
  Date(Prior("M7d","M7d.prior"));  
  Date(Prior("M8d","M8d.prior"));  
  Date(Prior("M9d","M9d.prior"));  
  Date(Prior("M10d","M10d.prior"));  
  Date(Prior("M11d","M11d.prior"));  
  Date(Prior("M12d","M12d.prior"));  
  Date(Prior("M13d","M13d.prior"));  
  Date(Prior("M14d","M14d.prior"));  
  Date(Prior("M15d","M15d.prior"));  
  Date(Prior("M16d","M16d.prior"));  
  Date(Prior("M17d","M17d.prior"));  
  Date(Prior("M18d","M18d.prior"));  
  Date(Prior("M19d","M19d.prior"));  
  Date(Prior("M20d","M20d.prior"));  
};
```

1.27.2 - Dataset M1d; Run 1; Combine Model; Table of Distributions

Name: TS1 M1d R1 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1d_R1																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997											
Prior M2d	1053	1219	68.26895	1040	1252	95.44997											
Prior M3d	417	535	68.26895	404	551	95.44997											
Prior M4d	1053	1221	68.26895	1045	1260	95.44997											
Prior M5d	1042	1157	68.26895	1028	1202	95.44997											
Prior M6d	1176	1260	68.26895	1053	1273	95.44997											
Prior M7d	546	604	68.26895	439	645	95.44997											
Prior M8d	1031	1152	68.26895	997	1162	95.44997											
Prior M9d	775	948	68.26895	774	976	95.44997											
Prior M10d	992	1115	68.26895	902	1155	95.44997											
Prior M11d	777	977	68.26895	775	993	95.44997											
Prior M12d	1034	1152	68.26895	997	1166	95.44997											
Prior M13d	1035	1152	68.26895	1021	1168	95.44997											
Prior M14d	992	1115	68.26895	901	1155	95.44997											
Prior M15d	774	878	68.26895	683	942	95.44997											
Prior M16d	678	816	68.26895	666	876	95.44997											
Prior M17d	1053	1220	68.26895	1044	1259	95.44997											

Prior M18d	1228	1275	68.26895	1214	1287	95.44997											
Prior M19d	776	975	68.26895	775	991	95.44997											
Prior M20d	705	876	68.26895	678	886	95.44997											

1.27.3 - Dataset M1d; Run 2; Combine Model; Table of Distributions

Name: TS1 M1d R2 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1d_R2																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997											
Prior M2d	683	827	68.26895	674	879	95.44997											
Prior M3d	1028	1151	68.26895	996	1160	95.44997											
Prior M4d	1038	1156	68.26895	1025	1200	95.44997											
Prior M5d	1053	1221	68.26895	1045	1260	95.44997											
Prior M6d	893	990	68.26895	775	1019	95.44997											
Prior M7d	1179	1262	68.26895	1161	1272	95.44997											
Prior M8d	1162	1251	68.26895	1050	1268	95.44997											
Prior M9d	1047	1202	68.26895	1039	1214	95.44997											
Prior M10d	1047	1203	68.26895	1039	1215	95.44997											
Prior M11d	1048	1210	68.26895	1040	1217	95.44997											
Prior M12d	1032	1152	68.26895	997	1163	95.44997											

Prior M13d	1035	1152	68.26895	1021	1168	95.44997											
Prior M14d	894	991	68.26895	776	1020	95.44997											
Prior M15d	708	878	68.26895	680	889	95.44997											
Prior M16d	996	1150	68.26895	994	1157	95.44997											
Prior M17d	1053	1220	68.26895	1044	1259	95.44997											
Prior M18d	1027	1151	68.26895	996	1160	95.44997											
Prior M19d	891	977	68.26895	775	1014	95.44997											
Prior M20d	1031	1152	68.26895	997	1162	95.44997											

1.27.4 - Dataset M1d; Run 3; Combine Model; Table of Distributions

Name: TS1 M1d R3 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1d_R3																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997											
Prior M2d	1053	1220	68.26895	1043	1258	95.44997											
Prior M3d	705	875	68.26895	678	885	95.44997											
Prior M4d	678	774	68.26895	662	873	95.44997											
Prior M5d	1182	1266	68.26895	1166	1272	95.44997											
Prior M6d	591	643	68.26895	561	652	95.44997											
Prior M7d	1044	1164	68.26895	1033	1210	95.44997											
Prior M8d	1053	1217	68.26895	1040	1224	95.44997											

Prior M9d	597	645	68.26895	566	653	95.44997											
Prior M10d	1027	1151	68.26895	996	1160	95.44997											
Prior M11d	1023	1151	68.26895	995	1158	95.44997											
Prior M12d	1227	1272	68.26895	1181	1283	95.44997											
Prior M13d	1035	1152	68.26895	1021	1168	95.44997											
Prior M14d	1031	1152	68.26895	997	1162	95.44997											
Prior M15d	775	879	68.26895	687	949	95.44997											
Prior M16d	1049	1215	68.26895	1040	1219	95.44997											
Prior M17d	1035	1153	68.26895	1022	1174	95.44997											
Prior M18d	895	993	68.26895	777	1021	95.44997											
Prior M19d	1180	1264	68.26895	1163	1272	95.44997											
Prior M20d	1040	1156	68.26895	1027	1201	95.44997											

1.27.5 - Dataset M1d; Run 4; Combine Model; Table of Distributions

Name: TS1 M1d R4 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1d_R4																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997											
Prior M2d	994	1120	68.26895	991	1157	95.44997											
Prior M3d	775	973	68.26895	774	989	95.44997											
Prior M4d	1034	1152	68.26895	997	1167	95.44997											

Prior M5d	775	880	68.26895	687	950	95.44997											
Prior M6d	1052	1216	68.26895	1040	1222	95.44997											
Prior M7d	1026	1151	68.26895	995	1159	95.44997											
Prior M8d	899	1021	68.26895	892	1026	95.44997											
Prior M9d	1159	1224	68.26895	1048	1266	95.44997											
Prior M10d	1035	1153	68.26895	998	1174	95.44997											
Prior M11d	1158	1223	68.26895	1048	1265	95.44997											
Prior M12d	1045	1198	68.26895	1036	1212	95.44997											
Prior M13d	1035	1152	68.26895	1021	1168	95.44997											
Prior M14d	1044	1162	68.26895	1032	1209	95.44997											
Prior M15d	1044	1163	68.26895	1033	1210	95.44997											
Prior M16d	1160	1226	68.26895	1049	1268	95.44997											
Prior M17d	1047	1208	68.26895	1040	1216	95.44997											
Prior M18d	1226	1269	68.26895	1179	1281	95.44997											
Prior M19d	991	1114	68.26895	900	1154	95.44997											
Prior M20d	903	1026	68.26895	892	1034	95.44997											

1.28.1 - Dataset M1d; Exponential Prior/No Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model M1d");
    Phase()
    {
      Date(Prior("M1d", "M1d.prior"));
      Date(Prior("M2d", "M2d.prior"));
      Date(Prior("M3d", "M3d.prior"));
      Date(Prior("M4d", "M4d.prior"));
      Date(Prior("M5d", "M5d.prior"));
      Date(Prior("M6d", "M6d.prior"));
      Date(Prior("M7d", "M7d.prior"));
      Date(Prior("M8d", "M8d.prior"));
      Date(Prior("M9d", "M9d.prior"));
      Date(Prior("M10d", "M10d.prior"));
      Date(Prior("M11d", "M11d.prior"));
      Date(Prior("M12d", "M12d.prior"));
      Date(Prior("M13d", "M13d.prior"));
      Date(Prior("M14d", "M14d.prior"));
      Date(Prior("M15d", "M15d.prior"));
      Date(Prior("M16d", "M16d.prior"));
      Date(Prior("M17d", "M17d.prior"));
      Date(Prior("M18d", "M18d.prior"));
      Date(Prior("M19d", "M19d.prior"));
      Date(Prior("M20d", "M20d.prior"));
    };
    Boundary("TS1 M1d Tau R2");
  };
};
```

};

1.28.2 - Dataset M1d; Run 1; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1d R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.5 Aoverall 96.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1d							914	1042	68.26895	812	1083	95.44997					97.6
Phase																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997	1159	1219	68.26895	1046	1252	95.44997		106.7			99.6
Prior M2d	1053	1219	68.26895	1040	1252	95.44997	1054	1220	68.26895	1045	1227	95.44997		105.7			99.6
Prior M3d	417	535	68.26895	404	551	95.44997	420	538	68.26895	407	550	95.44997		100.4			99.3
Prior M4d	1053	1221	68.26895	1045	1260	95.44997	1159	1219	68.26895	1047	1251	95.44997		106.9			99.6
Prior M5d	1042	1157	68.26895	1028	1202	95.44997	1048	1161	68.26895	1030	1207	95.44997		98.5			99.6
Prior M6d	1176	1260	68.26895	1053	1273	95.44997	1169	1228	68.26895	1054	1265	95.44997		103.7			99.5
Prior M7d	546	604	68.26895	439	645	95.44997	549	633	68.26895	443	646	95.44997		101.4			99.6
Prior M8d	1031	1152	68.26895	997	1162	95.44997	1035	1155	68.26895	997	1165	95.44997		100.3			99.5
Prior M9d	775	948	68.26895	774	976	95.44997	776	953	68.26895	774	978	95.44997		97.5			99.4
Prior M10d	992	1115	68.26895	902	1155	95.44997	993	1119	68.26895	976	1157	95.44997		93.6			99.3
Prior M11d	777	977	68.26895	775	993	95.44997	887	989	68.26895	775	994	95.44997		103.1			99.3

Prior M12d	1034	1152	68.26895	997	1166	95.44997	1039	1156	68.26895	1022	1199	95.44997		100			99.4
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1041	1157	68.26895	1022	1183	95.44997		98.9			99.9
Prior M14d	992	1115	68.26895	901	1155	95.44997	992	1119	68.26895	905	1156	95.44997		93.8			99.1
Prior M15d	774	878	68.26895	683	942	95.44997	787	881	68.26895	689	950	95.44998		101.1			99.4
Prior M16d	678	816	68.26895	666	876	95.44997	684	822	68.26895	669	879	95.44997		94.2			99.3
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1158	1220	68.26895	1045	1233	95.44997		106.5			99.7
Prior M18d	1228	1275	68.26895	1214	1287	95.44997	1181	1251	68.26895	1169	1273	95.44997		75.9			99.1
Prior M19d	776	975	68.26895	775	991	95.44997	776	988	68.26895	775	992	95.44997		102.1			99.5
Prior M20d	705	876	68.26895	678	886	95.44997	709	880	68.26895	681	888	95.44997		100			99.2
Boundary TS1 M1d Tau R1							1222	1269	68.26895	1190	1297	95.44997					97.5

1.28.3 - Dataset M1d; Run 2; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1d R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.8 Aoverall 95.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1d							1026	1096	68.26895	972	1119	95.44997					97.6
Phase																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1081	1157	68.26895	1024	1167	95.44997		101.3			99.2

Prior M2d	683	827	68.26895	674	879	95.44997	707	879	68.26895	682	885	95.44997		92.3			98.7
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1035	1156	68.26895	1021	1164	95.44997		101.1			99.2
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1078	1161	68.26895	1029	1197	95.44997		100.8			99.2
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1054	1208	68.26895	1048	1220	95.44997		103.2			99
Prior M6d	893	990	68.26895	775	1019	95.44997	908	992	68.26895	881	1021	95.44997		101.8			98.9
Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1161	1196	68.26895	1051	1231	95.44997		71.8			98.9
Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1158	1203	68.26895	1049	1224	95.44997		99.7			99.2
Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1052	1197	68.26895	1044	1206	95.44997		101.3			99.2
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1052	1198	68.26895	1044	1206	95.44997		101.4			99.1
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1053	1198	68.26895	1046	1208	95.44997		101.9			99.3
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1081	1157	68.26895	1023	1165	95.44997		101.3			98.9
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1076	1160	68.26895	1024	1171	95.44997		99.8			99.8
Prior M14d	894	991	68.26895	776	1020	95.44997	900	993	68.26895	884	1021	95.44997		101.4			98.7
Prior M15d	708	878	68.26895	680	889	95.44997	789	882	68.26895	688	948	95.44997		100.7			98.6

Prior M16d	996	1150	68.26895	994	1157	95.44997	1025	1153	68.26895	995	1160	95.44997		97.3			98.7
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1054	1207	68.26895	1048	1219	95.44997		103.1			99.3
Prior M18d	1027	1151	68.26895	996	1160	95.44997	1036	1156	68.26895	1021	1163	95.44997		100.9			98.9
Prior M19d	891	977	68.26895	775	1014	95.44997	917	991	68.26895	776	1020	95.44997		103.2			98.4
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1081	1157	68.26895	1023	1165	95.44997		101.3			98.9
Boundary TS1 M1d Tau R2							1177	1218	68.26895	1157	1250	95.44997					95.8

1.28.4 - Dataset M1d; Run 3; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1d R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.3 Aoverall 97.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1d							967	1076	68.26895	879	1112	95.44997					95.8
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1167	1221	68.26895	1050	1262	95.44997		107.9			99

Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1158	1220	68.26895	1046	1251	95.44997		106.8			99.2
Prior M3d	705	875	68.26895	678	885	95.44997	708	880	68.26895	681	888	95.44997		99.5			98.7
Prior M4d	678	774	68.26895	662	873	95.44997	680	816	68.26895	665	877	95.44997		93.8			98.8
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1179	1247	68.26895	1164	1263	95.44997		95.4			98.5
Prior M6d	591	643	68.26895	561	652	95.44997	594	644	68.26895	564	652	95.44997		101.7			98.9
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1049	1200	68.26895	1037	1213	95.44997		97.1			98.9
Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1054	1220	68.26895	1045	1225	95.44997		105.4			99.2
Prior M9d	597	645	68.26895	566	653	95.44997	600	646	68.26895	569	654	95.44997		101.5			98.8
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1032	1154	68.26895	996	1162	95.44997		100.2			98.6
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1026	1153	68.26895	995	1160	95.44997		99.5			98.9
Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1217	1253	68.26895	1175	1273	95.44997		84.1			98.8
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1041	1157	68.26895	1022	1183	95.44997		98.7			99.7
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1035	1155	68.26895	997	1165	95.44997		100.2			98.8
Prior M15d	775	879	68.26895	687	949	95.44997	785	884	68.26895	704	972	95.44997		100.1			98.9

Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1053	1217	68.26895	1045	1221	95.44997		101.7			98.9
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1040	1157	68.26895	1024	1200	95.44997		99.6			99.1
Prior M18d	895	993	68.26895	777	1021	95.44997	897	994	68.26895	887	1022	95.44997		100.4			98.6
Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1177	1245	68.26895	1162	1263	95.44997		98.7			98.9
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1048	1161	68.26895	1029	1208	95.44997		98.2			99
Last M1d R3 Tau							1221	1256	68.26895	1201	1275	95.44997					99.1
Boundary TS1 M1d Tau R3							1227	1269	68.26895	1200	1297	95.44997					95.7

1.28.5 - Dataset M1d; Run 4; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1d R4 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 83.9 Aoverall 84.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1d							1059	1121	68.26895	1008	1144	95.44997					99.2
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1163	1209	68.26895	1051	1236	95.44997		112.2			99.7

Prior M2d	994	1120	68.26895	991	1157	95.44997	996	1153	68.26895	992	1159	95.44997		87.9			99.5
Prior M3d	775	973	68.26895	774	989	95.44997	874	989	68.26895	775	992	95.44997		99.7			99.4
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1081	1158	68.26895	1025	1198	95.44997		99.8			99.5
Prior M5d	775	880	68.26895	687	950	95.44997	787	887	68.26895	707	974	95.44997		97.7			99.4
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1056	1217	68.26895	1048	1221	95.44997		107.8			99.5
Prior M7d	1026	1151	68.26895	995	1159	95.44997	1034	1156	68.26895	997	1163	95.44997		100			99.4
Prior M8d	899	1021	68.26895	892	1026	95.44997	958	1024	68.26895	894	1030	95.44997		103.3			99
Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1162	1209	68.26895	1050	1232	95.44997		113.3			99.6
Prior M10d	1035	1153	68.26895	998	1174	95.44997	1081	1159	68.26895	1026	1199	95.44997		99.6			99.6
Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1162	1210	68.26895	1050	1230	95.44997		113.1			99.6
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1059	1202	68.26895	1046	1212	95.44997		97.4			99.6
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1077	1161	68.26895	1025	1183	95.44997		98.1			99.9
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1064	1199	68.26895	1039	1208	95.44997		96.6			99.5
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1063	1200	68.26895	1042	1208	95.44997		96.6			99.7

Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1163	1210	68.26895	1050	1235	95.44997		112.8			99.6
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1066	1209	68.26895	1048	1216	95.44997		100.1			99.6
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1167	1232	68.26895	1162	1243	95.44997		37.8			99.3
Prior M19d	991	1114	68.26895	900	1154	95.44997	993	1148	68.26895	978	1156	95.44997		85.8			99.4
Prior M20d	903	1026	68.26895	892	1034	95.44997	978	1027	68.26895	893	1146	95.44997		104.8			99.4
Last M1d R4 Tau							1188	1227	68.26895	1174	1247	95.44997					99.4
Boundary TS1 M1d Tau R4							1191	1234	68.26895	1177	1259	95.44997					98.4

1.29.1 - Dataset M1d; Exponential Prior/200-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1d");
    Phase()
    {
      Date(Prior("M1d","M1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2d","M2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3d","M3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4d","M4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5d","M5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6d","M6d.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7d","M7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8d","M8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9d","M9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10d","M10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11d","M11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12d","M12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13d","M13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14d","M14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15d","M15d.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16d", "M16d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17d", "M17d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18d", "M18d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19d", "M19d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20d", "M20d.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1d Tau Mod Char R2");
};
};

```

1.29.2 - Dataset M1d; Run 1; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R1 Tau mod Char	Unmodelled (BC/AD)							Modelled (BC/AD)							Indices Amodel 97.5 Aoverall 97				
	from	to	%	from	to	%	median	from	to	%	from	to	%	median	Acomb	A	L	P	C
Outlier_Model Charcoal								-20	5	68.26895	-110	5	95.44997	-5					99.7
Exp(1,-10,0)	-1.24	- 0.05	68.26895	-3.19	- 0.05	95.44997	-0.74							-0.73					99.9
U(0,2.3)	-1.91E-17	2.3	68.26895	- 1.91E- 17	2.3	95.44997	1.1615	0.0414	1.7756	68.26895	- 3.30E- 17	1.9619	95.44997	1.0258		100			88
Sequence																			
Tau_Boundary Model M1d								915	1070	68.26895	815	1125	95.44997	990					94.5
Phase																			
Prior M1d	1050	1225	68.26895	1040	1260	95.44997	1180	1155	1245	68.26895	1050	1270	95.44997	1195		105.1			97.7
Prior M2d	1050	1220	68.26895	1040	1255	95.44997	1170	1070	1245	68.26895	1050	1265	95.44997	1190		104.2			97.6
Prior M3d	415	535	68.26895	400	555	95.44997	475	430	550	68.26895	400	665	95.44997	505		100.7			94.9
Prior M4d	1050	1225	68.26895	1040	1260	95.44997	1180	1160	1240	68.26895	1050	1270	95.44997	1195		105.8			97.5
Prior M5d	1040	1160	68.26895	1025	1205	95.44997	1105	1050	1180	68.26895	1030	1240	95.44997	1135		98.9			97.5
Prior M6d	1175	1260	68.26895	1050	1275	95.44997	1215	1180	1250	68.26895	1055	1295	95.44997	1215		102.6			97.9

Prior M7d	545	605	68.26895	435	650	95.44997	575	550	645	68.26895	440	750	95.44998	595		101.4			95.3
Prior M8d	1030	1155	68.26895	995	1165	95.44997	1095	1035	1170	68.26895	1020	1230	95.44997	1120		100.1			97.1
Prior M9d	770	950	68.26895	770	980	95.44997	865	825	980	68.26895	775	1085	95.44997	900		97.2			95.8
Prior M10d	990	1115	68.26895	900	1155	95.44997	1025	995	1155	68.26895	975	1225	95.44997	1045		94.6			96.1
Prior M11d	775	980	68.26895	775	995	95.44997	925	885	1000	68.26895	775	1090	95.44997	950		102.8			95
Prior M12d	1030	1155	68.26895	995	1170	95.44997	1100	1040	1170	68.26895	1025	1235	95.44997	1125		100.4			97.5
Prior M13d	1035	1155	68.26895	1020	1170	95.44997	1100	1050	1170	68.26895	1025	1225	95.44997	1125		99.2			99
Prior M14d	990	1115	68.26895	900	1155	95.44997	1020	990	1155	68.26895	905	1230	95.44997	1045		94.1			96.7
Prior M15d	770	880	68.26895	680	945	95.44997	820	780	905	68.26895	685	1000	95.44997	850		101			96.5
Prior M16d	675	820	68.26895	665	880	95.44997	735	685	875	68.26895	665	945	95.44997	775		93.8			95.6
Prior M17d	1050	1220	68.26895	1040	1260	95.44997	1175	1155	1245	68.26895	1050	1270	95.44997	1195		104.9			97.5
Prior M18d	1225	1280	68.26895	1210	1290	95.44997	1250	1220	1270	68.26895	1175	1295	95.44997	1240		80			96.1
Prior M19d	775	980	68.26895	770	995	95.44997	900	845	1000	68.26895	775	1075	95.44997	940		102.2			95.7
Prior M20d	705	880	68.26895	675	890	95.44997	800	715	895	68.26895	680	980	95.44997	830		100.3			95.6
Boundary TS1 M1d Tau Mod Char R1								1225	1285	68.26895	1195	1330	95.44997	1255					94.4

1.29.3 - Dataset M1d; Run 2; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R2 TmodC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.9 Aoverall 95.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-26	0	68.26895	-165	0	95.44997					99.8
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	2.1045	68.26895	-3.30E-17	2.1091	95.44997		100			95.6
Sequence																	
Tau_Boundary Model M1d							1026	1129	68.26895	988	1209	95.44997					98.4
Phase																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1082	1186	68.26895	1033	1225	95.44997		101.7			99.2
Prior M2d	683	827	68.26895	674	879	95.44997	705	896	68.26895	678	1234	95.44998		91.6			98.6
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1045	1184	68.26895	1027	1225	95.44997		101.3			99.1
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1082	1187	68.26895	1038	1226	95.44997		101.4			99.3
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1156	1228	68.26895	1054	1242	95.44997		100.7			99.5
Prior M6d	893	990	68.26895	775	1019	95.44997	900	1021	68.26895	885	1226	95.44997		101.9			98.8
Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1167	1218	68.26895	1054	1265	95.44997		73.9			99.4

Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1164	1221	68.26895	1054	1253	95.44997		98.7			99.5
Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1071	1217	68.26895	1049	1232	95.44997		101.5			99.4
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1071	1217	68.26895	1050	1232	95.44997		101.5			99.3
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1071	1218	68.26895	1050	1233	95.44997		101.6			99.4
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1083	1186	68.26895	1031	1225	95.44997		101.6			99.2
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1083	1189	68.26895	1033	1226	95.44997		100.5			99.4
Prior M14d	894	991	68.26895	776	1020	95.44997	901	1022	68.26895	886	1225	95.44997		101.4			98.9
Prior M15d	708	878	68.26895	680	889	95.44997	717	950	68.26895	692	1233	95.44997		100.6			98.7
Prior M16d	996	1150	68.26895	994	1157	95.44997	1028	1173	68.26895	1000	1225	95.44997		97.7			98.9
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1077	1228	68.26895	1054	1240	95.44997		100.9			99.5
Prior M18d	1027	1151	68.26895	996	1160	95.44997	1042	1184	68.26895	1027	1226	95.44997		101.2			99.2
Prior M19d	891	977	68.26895	775	1014	95.44997	895	1018	68.26895	881	1229	95.44997		103.2			98.8
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1082	1187	68.26895	1030	1225	95.44997		101.6			99.2
Boundary TS1 M1d Tau Mod Char R2							1184	1236	68.26895	1163	1282	95.44997					98.8

1.29.4 - Dataset M1d; Run 3; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R3 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.9 Aoverall 98.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-22	0	68.26895	-149	0	95.44997					99.7
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	2.2103	95.44997		100			88.3
Sequence																	
Tau_Boundary Model M1d							974	1104	68.26895	888	1198	95.44997					97.1
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1170	1244	68.26895	1054	1298	95.44997		107.1			98.7
Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1159	1246	68.26895	1053	1280	95.44997		105.9			98.7
Prior M3d	705	875	68.26895	678	885	95.44997	711	894	68.26895	675	1100	95.44997		99.4			98.5
Prior M4d	678	774	68.26895	662	873	95.44997	683	830	68.26895	662	1250	95.44997		93.5			98.8
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1187	1265	68.26895	1166	1295	95.44997		95.5			98.7
Prior M6d	591	643	68.26895	561	652	95.44997	583	659	68.26895	546	1263	95.44997		101.8			98.9
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1069	1213	68.26895	1038	1258	95.44997		97.7			98.6
Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1070	1246	68.26895	1052	1272	95.44997		104.6			98.7

Prior M9d	597	645	68.26895	566	653	95.44997	589	663	68.26895	550	1187	95.44997		101.8			98.8
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1033	1168	68.26895	1000	1255	95.44997		100.3			98.5
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1028	1167	68.26895	998	1242	95.44997		99.6			98.4
Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1222	1268	68.26895	1180	1297	95.44997		88.3			98.4
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1050	1173	68.26895	1027	1249	95.44997		99			98.6
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1037	1172	68.26895	1024	1259	95.44997		100.4			98.4
Prior M15d	775	879	68.26895	687	949	95.44997	782	945	68.26895	691	1131	95.44997		100.1			98.6
Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1062	1232	68.26895	1048	1268	95.44997		101.6			98.7
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1045	1176	68.26895	1028	1253	95.44997		99.9			98.4
Prior M18d	895	993	68.26895	777	1021	95.44997	905	1020	68.26895	883	1248	95.44997		100.4			98.6
Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1185	1261	68.26895	1163	1297	95.44997		98.3			98.6
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1063	1181	68.26895	1033	1254	95.44997		98.7			98.6
Last M1d R3 TmodC							1226	1273	68.26895	1204	1317	95.44997					98
Boundary TS1 M1d Tau Mod Char R3							1234	1288	68.26895	1212	1332	95.44997					98

1.29.5 - Dataset M1d; Run 4; Exponential Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R4 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 89.8 Aoverall 89.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-28	0	68.26895	-160	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	0.2162	2.093	68.26895	-3.30E-17	2.1022	95.44997		100			93.7
Sequence																	
Tau_Boundary Model M1d							1061	1158	68.26895	1022	1227	95.44997					98.4
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1172	1229	68.26895	1056	1274	95.44997		110.6			99.5
Prior M2d	994	1120	68.26895	991	1157	95.44997	1002	1172	68.26895	997	1235	95.44997		88.7			98.9
Prior M3d	775	973	68.26895	774	989	95.44997	839	1005	68.26895	778	1249	95.44997		99.8			98.6
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1084	1202	68.26895	1035	1242	95.44997		100.4			99.1
Prior M5d	775	880	68.26895	687	950	95.44997	783	963	68.26895	712	1253	95.44997		97.3			98.7
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1155	1237	68.26895	1056	1254	95.44997		106.1			99.4

Prior M7d	1026	1151	68.26895	995	1159	95.44997	1039	1186	68.26895	1026	1244	95.44997		100.4			98.9
Prior M8d	899	1021	68.26895	892	1026	95.44997	904	1054	68.26895	898	1240	95.44997		103.5			98.9
Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1170	1229	68.26895	1056	1271	95.44997		111			99.5
Prior M10d	1035	1153	68.26895	998	1174	95.44997	1084	1203	68.26895	1036	1243	95.44997		100.3			99.2
Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1169	1229	68.26895	1055	1269	95.44997		110.9			99.5
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1101	1228	68.26895	1050	1248	95.44997		98.1			99.2
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1083	1198	68.26895	1035	1243	95.44997		98.9			99.3
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1100	1219	68.26895	1047	1246	95.44997		97.7			99.3
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1099	1221	68.26895	1047	1246	95.44997		97.7			99.2
Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1171	1230	68.26895	1056	1273	95.44997		110.9			99.6
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1128	1233	68.26895	1053	1249	95.44997		100.2			99.4
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1180	1247	68.26895	1167	1268	95.44997		50.3			99.4
Prior M19d	991	1114	68.26895	900	1154	95.44997	996	1160	68.26895	992	1245	95.44997		86.3			99
Prior M20d	903	1026	68.26895	892	1034	95.44997	909	1119	68.26895	902	1241	95.44997		105.1			98.9

Last M1d R4 TmodC							1199	1250	68.26895	1181	1277	95.44997					99.3
Boundary TS1 M1d Tau Mod Char R4							1205	1258	68.26895	1185	1285	95.44997					99.1

1.30.1 - Dataset M1d; Exponential Prior/Default Charcoal Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1d");
    Phase()
    {
      Date(Prior("M1d","M1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2d","M2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3d","M3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4d","M4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5d","M5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6d","M6d.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7d","M7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8d","M8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9d","M9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10d","M10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11d","M11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12d","M12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13d","M13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14d","M14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15d","M15d.prior"))
{

```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M16d", "M16d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17d", "M17d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18d", "M18d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19d", "M19d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20d", "M20d.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1d Tau and Char R2");
};
};

```

1.30.2 - Dataset M1d; Run 1; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1d R1 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.5 Aoverall 97.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-37	1	68.26895	-249	1	95.44997					98.6
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	0.246	2.256	68.26895	3.60E-17	2.283	95.44997		100			66.2
Sequence																	
Tau_Boundary Model M1d							919	1090	68.26895	847	1229	95.44997					85
Phase																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997	1162	1250	68.26895	1054	1287	95.44997		104.8			96.5
Prior M2d	1053	1219	68.26895	1040	1252	95.44997	1157	1256	68.26895	1054	1280	95.44997		103.9			96.2
Prior M3d	417	535	68.26895	404	551	95.44997	422	561	68.26895	382	1275	95.44998		100.4			93.4
Prior M4d	1053	1221	68.26895	1045	1260	95.44997	1162	1250	68.26895	1054	1288	95.44997		104.7			96.2
Prior M5d	1042	1157	68.26895	1028	1202	95.44997	1070	1205	68.26895	1036	1265	95.44997		99.3			94.1
Prior M6d	1176	1260	68.26895	1053	1273	95.44997	1183	1255	68.26895	1072	1310	95.44997		102.1			97.3
Prior M7d	546	604	68.26895	439	645	95.44997	546	663	68.26895	442	1270	95.44997		101.4			94.4
Prior M8d	1031	1152	68.26895	997	1162	95.44997	1037	1182	68.26895	1026	1267	95.44997		100.5			93.7
Prior M9d	775	948	68.26895	774	976	95.44997	783	992	68.26895	776	1251	95.44997		97.5			92.3

Prior M10d	992	1115	68.26895	902	1155	95.44997	996	1156	68.26895	989	1269	95.44997		94.9			92.7
Prior M11d	777	977	68.26895	775	993	95.44997	883	1024	68.26895	777	1253	95.44997		103.2			92.9
Prior M12d	1034	1152	68.26895	997	1166	95.44997	1042	1182	68.26895	1029	1263	95.44997		100.4			93.4
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1052	1184	68.26895	1029	1261	95.44997		99.4			93.2
Prior M14d	992	1115	68.26895	901	1155	95.44997	996	1156	68.26895	983	1265	95.44997		94.8			92.8
Prior M15d	774	878	68.26895	683	942	95.44997	776	952	68.26895	694	1256	95.44997		101.2			91.8
Prior M16d	678	816	68.26895	666	876	95.44997	688	879	68.26895	667	1262	95.44997		94			92.1
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1161	1252	68.26895	1054	1286	95.44997		104.7			96.7
Prior M18d	1228	1275	68.26895	1214	1287	95.44997	1222	1273	68.26895	1179	1301	95.44997		82.3			97.5
Prior M19d	776	975	68.26895	775	991	95.44997	839	1006	68.26895	777	1253	95.44997		102.1			91.2
Prior M20d	705	876	68.26895	678	886	95.44997	707	906	68.26895	680	1266	95.44997		100			92.3
Boundary TS1 M1d Tau and Char R1							1231	1292	68.26895	1202	1337	95.44997					97

1.30.3 - Dataset M1d; Run 2; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1d R2 TandC	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.2 Aoverall 96.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-27	1	68.26895	-167	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	3.60E-17	2.088	68.26895	3.60E-17	2.115	95.44997		100		93.6
Sequence																
Tau_Boundary Model M1d							1026	1128	68.26895	985	1209	95.44997				97.9
Phase																
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1082	1186	68.26895	1032	1228	95.44997		101.7		98.8
Prior M2d	683	827	68.26895	674	879	95.44997	706	896	68.26895	677	1238	95.44997		91.8		98.3
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1046	1187	68.26895	1026	1229	95.44997		101.4		98.7
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1083	1189	68.26895	1038	1228	95.44997		101.4		98.6
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1157	1228	68.26895	1054	1243	95.44997		101.3		98.8
Prior M6d	893	990	68.26895	775	1019	95.44997	900	1021	68.26895	885	1227	95.44997		101.9		98.5
Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1167	1219	68.26895	1054	1267	95.44997		74.7		98.7
Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1164	1221	68.26895	1054	1255	95.44997		99.4		98.7
Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1072	1217	68.26895	1049	1234	95.44997		101.3		98.9
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1073	1218	68.26895	1049	1234	95.44997		101.3		98.8
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1072	1219	68.26895	1050	1235	95.44997		101.5		98.8
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1083	1186	68.26895	1030	1227	95.44997		101.7		98.7
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1083	1189	68.26895	1033	1228	95.44997		100.4		98.8
Prior M14d	894	991	68.26895	776	1020	95.44997	901	1022	68.26895	887	1227	95.44997		101.5		98.7
Prior M15d	708	878	68.26895	680	889	95.44997	718	949	68.26895	692	1237	95.44998		100.7		98.4
Prior M16d	996	1150	68.26895	994	1157	95.44997	1028	1175	68.26895	1000	1227	95.44997		97.7		98.7
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1154	1229	68.26895	1054	1241	95.44997		101.4		98.9

Prior M18d	1027	1151	68.26895	996	1160	95.44997	1044	1184	68.26895	1026	1229	95.44997		101.2			98.6
Prior M19d	891	977	68.26895	775	1014	95.44997	895	1019	68.26895	879	1234	95.44997		103.2			98.7
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1082	1184	68.26895	1030	1227	95.44997		101.7			98.6
Boundary TS1 M1d Tau and Char R2							1186	1236	68.26895	1165	1281	95.44997					98.2

1.30.4 - Dataset M1d; Run 3; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1d R3 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.2 Aoverall 98.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-15	1	68.26895	-85	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	1.572	68.26895	3.60E-17	1.794	95.44997		100			96.5
Sequence																	
Tau_Boundary Model M1d							981	1096	68.26895	891	1140	95.44997					98.3
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1170	1237	68.26895	1054	1284	95.44997		107.4			99.1
Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1159	1237	68.26895	1053	1267	95.44997		106.4			99.1

Prior M3d	705	875	68.26895	678	885	95.44997	718	890	68.26895	682	956	95.44997		99.5			98.1
Prior M4d	678	774	68.26895	662	873	95.44997	687	824	68.26895	667	899	95.44997		93.7			98.5
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1187	1262	68.26895	1167	1283	95.44997		96.1			99
Prior M6d	591	643	68.26895	561	652	95.44997	592	655	68.26895	554	723	95.44997		101.7			98.6
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1068	1207	68.26895	1038	1236	95.44997		97.4			99
Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1069	1236	68.26895	1053	1259	95.44997		105			99.2
Prior M9d	597	645	68.26895	566	653	95.44997	597	658	68.26895	557	739	95.44997		101.6			98.3
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1035	1164	68.26895	999	1220	95.44997		100.2			98.6
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1030	1162	68.26895	998	1206	95.44997		99.5			98.6
Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1222	1263	68.26895	1182	1287	95.44997		88.9			99.1
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1069	1169	68.26895	1027	1220	95.44997		98.9			99.7
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1039	1166	68.26895	1023	1222	95.44997		100.3			98.7
Prior M15d	775	879	68.26895	687	949	95.44997	787	896	68.26895	705	1004	95.44997		100.1			98.5
Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1062	1228	68.26895	1049	1253	95.44997		101.7			99.1
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1045	1169	68.26895	1028	1223	95.44997		99.8			98.6
Prior M18d	895	993	68.26895	777	1021	95.44997	906	1019	68.26895	883	1106	95.44997		100.4			98.5

Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1185	1259	68.26895	1164	1284	95.44997		99			99.1
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1068	1175	68.26895	1033	1229	95.44997		98.5			99.1
Last M1d R3 TandC							1227	1268	68.26895	1210	1297	95.44997					99.1
Boundary TS1 M1d Tau Mod Char R3							1234	1282	68.26895	1216	1315	95.44997					97.7

1.30.5 - Dataset M1d; Run 4; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1d R4 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 90 Aoverall 90.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-32	1	68.26895	-177	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	0.126	2.118	68.26895	3.60E-17	2.124	95.44997		100			88.5
Sequence																	
Tau_Boundary Model M1d							1060	1161	68.26895	1024	1235	95.44997					97.6
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1172	1231	68.26895	1056	1277	95.44997		110.4			99

Prior M2d	994	1120	68.26895	991	1157	95.44997	1002	1177	68.26895	997	1241	95.44997		88.7			98.3
Prior M3d	775	973	68.26895	774	989	95.44997	836	1014	68.26895	778	1253	95.44997		99.7			98.1
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1085	1207	68.26895	1035	1247	95.44997		100.4			98.7
Prior M5d	775	880	68.26895	687	950	95.44997	784	974	68.26895	714	1257	95.44997		97.4			98.2
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1156	1239	68.26895	1056	1257	95.44997		106			99.1
Prior M7d	1026	1151	68.26895	995	1159	95.44997	1046	1204	68.26895	1026	1248	95.44997		100.3			98.4
Prior M8d	899	1021	68.26895	892	1026	95.44997	903	1060	68.26895	899	1245	95.44997		103.5			98.4
Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1170	1231	68.26895	1056	1274	95.44997		110.9			99.1
Prior M10d	1035	1153	68.26895	998	1174	95.44997	1086	1204	68.26895	1036	1247	95.44997		100.3			98.5
Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1169	1231	68.26895	1056	1272	95.44997		110.8			99
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1102	1231	68.26895	1050	1252	95.44997		98.1			98.9
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1085	1202	68.26895	1035	1247	95.44997		98.8			98.6
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1101	1223	68.26895	1047	1250	95.44997		97.7			98.9
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1100	1224	68.26895	1047	1250	95.44997		97.6			98.8

Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1172	1231	68.26895	1056	1276	95.44997		110.7			99.1
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1129	1234	68.26895	1053	1254	95.44997		100.1			99
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1181	1248	68.26895	1168	1271	95.44997		51.4			99
Prior M19d	991	1114	68.26895	900	1154	95.44997	996	1163	68.26895	992	1250	95.44997		86.3			98.2
Prior M20d	903	1026	68.26895	892	1034	95.44997	909	1229	68.26895	903	1248	95.44997		105.2			98.5
Last M1d R4 TandC							1200	1252	68.26895	1181	1281	95.44997					98.6
Boundary TS1 M1d Tau and Char R4							1205	1259	68.26895	1184	1287	95.44997					98.3

1.31.1 - Dataset M1d; Uniform Prior/No Outlier; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Plot()  
{  
  Sequence()  
  {  
    Boundary("Model M1d");  
    Phase()  
    {  
      Date(Prior("M1d", "M1d.prior"));  
      Date(Prior("M2d", "M2d.prior"));  
      Date(Prior("M3d", "M3d.prior"));  
      Date(Prior("M4d", "M4d.prior"));  
      Date(Prior("M5d", "M5d.prior"));  
      Date(Prior("M6d", "M6d.prior"));  
      Date(Prior("M7d", "M7d.prior"));  
      Date(Prior("M8d", "M8d.prior"));  
      Date(Prior("M9d", "M9d.prior"));  
      Date(Prior("M10d", "M10d.prior"));  
      Date(Prior("M11d", "M11d.prior"));  
      Date(Prior("M12d", "M12d.prior"));  
      Date(Prior("M13d", "M13d.prior"));  
      Date(Prior("M14d", "M14d.prior"));  
      Date(Prior("M15d", "M15d.prior"));  
      Date(Prior("M16d", "M16d.prior"));  
      Date(Prior("M17d", "M17d.prior"));  
      Date(Prior("M18d", "M18d.prior"));  
      Date(Prior("M19d", "M19d.prior"));  
      Date(Prior("M20d", "M20d.prior"));  
    };  
  };  
}
```

```
Boundary("TS1 M1d Uniform R2");
};
};
```

1.31.2 - Dataset M1d; Run 1; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1d R1 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.9 Aoverall 98.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1d							456	538	68.26895	377	564	95.44997					97.7
Phase																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997	1053	1220	68.26895	1044	1255	95.44997		100.9			99.7
Prior M2d	1053	1219	68.26895	1040	1252	95.44997	1053	1218	68.26895	1041	1226	95.44997		100.6			99.7
Prior M3d	417	535	68.26895	404	551	95.44997	497	548	68.26895	428	573	95.44997		91.1			99.6
Prior M4d	1053	1221	68.26895	1045	1260	95.44997	1053	1220	68.26895	1044	1255	95.44997		101			99.6
Prior M5d	1042	1157	68.26895	1028	1202	95.44997	1041	1157	68.26895	1027	1202	95.44997		100			99.5
Prior M6d	1176	1260	68.26895	1053	1273	95.44997	1167	1232	68.26895	1053	1269	95.44997		101.1			99.6
Prior M7d	546	604	68.26895	439	645	95.44997	550	602	68.26895	534	646	95.44997		105.5			99.7

Prior M8d	1031	1152	68.26895	997	1162	95.44997	1031	1151	68.26895	997	1162	95.44997		100			99.5
Prior M9d	775	948	68.26895	774	976	95.44997	775	948	68.26895	774	976	95.44997		99.9			99.5
Prior M10d	992	1115	68.26895	902	1155	95.44997	992	1115	68.26895	902	1155	95.44997		99.7			99.5
Prior M11d	777	977	68.26895	775	993	95.44997	777	976	68.26895	775	993	95.44997		99.9			99.5
Prior M12d	1034	1152	68.26895	997	1166	95.44997	1034	1152	68.26895	997	1166	95.44997		100.1			99.5
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1035	1152	68.26895	1020	1169	95.44997		99.6			99.9
Prior M14d	992	1115	68.26895	901	1155	95.44997	992	1115	68.26895	901	1155	95.44997		99.7			99.4
Prior M15d	774	878	68.26895	683	942	95.44997	774	879	68.26895	684	942	95.44997		99.9			99.4
Prior M16d	678	816	68.26895	666	876	95.44997	677	817	68.26895	666	876	95.44997		99.8			99.5
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1053	1220	68.26895	1043	1253	95.44997		100.9			99.6
Prior M18d	1228	1275	68.26895	1214	1287	95.44997	1221	1266	68.26895	1179	1280	95.44997		92.5			99.5
Prior M19d	776	975	68.26895	775	991	95.44997	776	975	68.26895	774	991	95.44997		99.9			99.4
Prior M20d	705	876	68.26895	678	886	95.44997	705	876	68.26895	678	886	95.44997		99.9			99.6
Boundary TS1 M1d Uniform R1							1231	1296	68.26895	1208	1369	95.44997					98.2

1.31.3 - Dataset M1d; Run 2; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1d R2 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.6 Aoverall 90.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1d							801	871	68.26895	727	932	95.44997					97.7
Phase																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1033	1152	68.26895	998	1165	95.44997		100.3			99.6
Prior M2d	683	827	68.26895	674	879	95.44997	816	886	68.26895	773	948	95.44997		65.1			99.5
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1027	1151	68.26895	996	1160	95.44997		100.1			99.5
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1038	1156	68.26895	1025	1198	95.44997		100.6			99.6
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1053	1216	68.26895	1044	1225	95.44997		100.7			99.7
Prior M6d	893	990	68.26895	775	1019	95.44997	894	990	68.26895	878	1019	95.44997		103.1			99.6
Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1165	1222	68.26895	1053	1256	95.44997		85.6			99.6
Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1162	1217	68.26895	1048	1254	95.44997		102.3			99.5

Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1046	1200	68.26895	1039	1208	95.44997		101.2			99.7
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1047	1200	68.26895	1039	1209	95.44997		101.2			99.6
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1047	1202	68.26895	1039	1213	95.44997		101.1			99.6
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1032	1151	68.26895	997	1163	95.44997		100.2			99.6
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1035	1152	68.26895	1021	1167	95.44997		100			99.9
Prior M14d	894	991	68.26895	776	1020	95.44997	895	990	68.26895	880	1019	95.44997		102.7			99.7
Prior M15d	708	878	68.26895	680	889	95.44997	835	888	68.26895	786	952	95.44997		94.6			99.3
Prior M16d	996	1150	68.26895	994	1157	95.44997	996	1150	68.26895	994	1157	95.44997		100.1			99.5
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1053	1215	68.26895	1043	1223	95.44997		100.6			99.6
Prior M18d	1027	1151	68.26895	996	1160	95.44997	1027	1151	68.26895	996	1159	95.44997		100.1			99.5
Prior M19d	891	977	68.26895	775	1014	95.44997	892	977	68.26895	838	1017	95.44997		104.2			99.6
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1031	1152	68.26895	997	1162	95.44997		100.1			99.5
Boundary TS1 M1d Uniform R2							1193	1248	68.26895	1171	1290	95.44997					98.3

1.31.4 - Dataset M1d; Run 3; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1d R3 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 102.3 Aoverall 102				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1d							564	628	68.26895	505	643	95.44997					97.5
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1161	1223	68.26895	1048	1265	95.44997		101.6			99.2
Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1053	1220	68.26895	1042	1253	95.44997		100.5			99.4
Prior M3d	705	875	68.26895	678	885	95.44997	704	875	68.26895	678	885	95.44997		99.9			98.9
Prior M4d	678	774	68.26895	662	873	95.44997	678	774	68.26895	662	872	95.44997		100			99
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1180	1260	68.26895	1164	1269	95.44997		98.3			99.3
Prior M6d	591	643	68.26895	561	652	95.44997	606	647	68.26895	578	654	95.44997		107.2			99.6
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1044	1164	68.26895	1033	1210	95.44997		100.1			99
Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1053	1217	68.26895	1041	1224	95.44997		100.4			98.9
Prior M9d	597	645	68.26895	566	653	95.44997	608	648	68.26895	582	656	95.44997		107.5			99.2
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1027	1151	68.26895	995	1160	95.44997		99.9			99.2
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1023	1151	68.26895	995	1157	95.44997		99.9			98.9

Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1221	1259	68.26895	1179	1279	95.44997		95.8			98.8
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1035	1152	68.26895	1020	1169	95.44997		99.6			99.9
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1031	1152	68.26895	997	1162	95.44997		100.1			99.2
Prior M15d	775	879	68.26895	687	949	95.44997	775	879	68.26895	686	949	95.44997		100			99
Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1049	1216	68.26895	1040	1219	95.44997		100.1			99.1
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1035	1153	68.26895	1022	1198	95.44997		99.9			99.1
Prior M18d	895	993	68.26895	777	1021	95.44997	894	993	68.26895	777	1022	95.44997		99.7			98.8
Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1179	1256	68.26895	1161	1269	95.44997		99.3			99.2
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1041	1156	68.26895	1026	1202	95.44997		100			99.2
Last M1d R3 Uniform							1233	1268	68.26895	1218	1278	95.44997					99.3
Boundary TS1 M1d Uniform R3							1238	1296	68.26895	1218	1361	95.44997					96.8

1.31.5 - Dataset M1d; Run 4; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1d R4 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 76.4 Aoverall 76				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1d							896	969	68.26895	820	977	95.44997					97.2
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1164	1220	68.26895	1048	1260	95.44997		104.2			99.6
Prior M2d	994	1120	68.26895	991	1157	95.44997	994	1120	68.26895	991	1157	95.44997		100.5			99.5
Prior M3d	775	973	68.26895	774	989	95.44997	930	988	68.26895	877	993	95.44997		94.5			99.7
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1034	1153	68.26895	997	1166	95.44997		100.1			99.6
Prior M5d	775	880	68.26895	687	950	95.44997	928	975	68.26895	848	992	95.44997		31.5			99.3
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1052	1214	68.26895	1042	1221	95.44997		100.8			99.6
Prior M7d	1026	1151	68.26895	995	1159	95.44997	1026	1150	68.26895	995	1159	95.44997		100			99.6
Prior M8d	899	1021	68.26895	892	1026	95.44997	960	1021	68.26895	899	1029	95.44997		105.2			99.6
Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1161	1220	68.26895	1048	1256	95.44997		103.6			99.7
Prior M10d	1035	1153	68.26895	998	1174	95.44997	1035	1153	68.26895	1022	1172	95.44997		100.2			99.5

Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1160	1220	68.26895	1047	1252	95.44997		103.3			99.5
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1045	1175	68.26895	1036	1210	95.44997		100.5			99.7
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1035	1152	68.26895	1020	1168	95.44997		99.7			99.9
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1044	1162	68.26895	1032	1207	95.44997		100.4			99.6
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1044	1163	68.26895	1032	1207	95.44997		100.5			99.6
Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1163	1220	68.26895	1048	1259	95.44997		104.1			99.7
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1047	1203	68.26895	1039	1215	95.44997		100.6			99.6
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1178	1249	68.26895	1166	1265	95.44997		70.7			99.3
Prior M19d	991	1114	68.26895	900	1154	95.44997	991	1112	68.26895	963	1155	95.44997		102.2			99.6
Prior M20d	903	1026	68.26895	892	1034	95.44997	978	1024	68.26895	898	1036	95.44997		107.8			99.6
Last M1d R4 Uniform							1208	1251	68.26895	1183	1266	95.44997					99.5
Boundary TS1 M1d Uniform R4							1214	1268	68.26895	1184	1297	95.44997					98.6

1.32.1 - Dataset M1d; Uniform Prior/200-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.3),"t");
  Sequence()
  {
    Boundary("Model M1d");
    Phase()
    {
      Date(Prior("M1d","M1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2d","M2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3d","M3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4d","M4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5d","M5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6d","M6d.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7d","M7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8d","M8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9d","M9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10d","M10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11d","M11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12d","M12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13d","M13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14d","M14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15d","M15d.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16d", "M16d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17d", "M17d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18d", "M18d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19d", "M19d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20d", "M20d.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1d Mod Char R2");
};
};

```

1.32.2 - Dataset M1d; Run 1; Uniform Prior /200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R1 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.4 Aoverall 97.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-112	0	68.26895	-495	0	95.44997					82.3
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.8
U(0,2.3)	-1.91E-17	2.3	68.26895	-1.91E-17	2.3	95.44997	1.472	2.323	68.26895	-3.30E-17	2.323	95.44997		100			40.2
Sequence																	
Boundary Model M1d							412	1234	68.26895	388	1248	95.44997					52.1
Phase																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997	1163	1278	68.26895	1054	1320	95.44997		99.9			91.5
Prior M2d	1053	1219	68.26895	1040	1252	95.44997	1157	1282	68.26895	1053	1318	95.44997		99.6			91
Prior M3d	417	535	68.26895	404	551	95.44997	459	1280	68.26895	434	1296	95.44997		98.6			55
Prior M4d	1053	1221	68.26895	1045	1260	95.44997	1163	1278	68.26895	1055	1320	95.44997		99.8			91.3
Prior M5d	1042	1157	68.26895	1028	1202	95.44997	1087	1242	68.26895	1036	1302	95.44997		100.5			81.3
Prior M6d	1176	1260	68.26895	1053	1273	95.44997	1191	1279	68.26895	1063	1364	95.44997		99.4			97.1
Prior M7d	546	604	68.26895	439	645	95.44997	544	1279	68.26895	541	1295	95.44997		102.4			58.8
Prior M8d	1031	1152	68.26895	997	1162	95.44997	1084	1241	68.26895	1026	1300	95.44997		100.2			79

Prior M9d	775	948	68.26895	774	976	95.44997	780	1261	68.26895	778	1274	95.44997		98.4			63.8
Prior M10d	992	1115	68.26895	902	1155	95.44997	997	1244	68.26895	983	1306	95.44997		98.7			75.1
Prior M11d	777	977	68.26895	775	993	95.44997	884	1261	68.26895	778	1289	95.44997		101.9			67
Prior M12d	1034	1152	68.26895	997	1166	95.44997	1085	1240	68.26895	1029	1301	95.44997		100.3			80.4
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1082	1240	68.26895	1030	1299	95.44997		100			80.7
Prior M14d	992	1115	68.26895	901	1155	95.44997	997	1242	68.26895	982	1305	95.44997		98.9			75.1
Prior M15d	774	878	68.26895	683	942	95.44997	720	1270	68.26895	707	1289	95.44997		100.9			62.1
Prior M16d	678	816	68.26895	666	876	95.44997	681	1269	68.26895	676	1281	95.44997		94.6			58.8
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1162	1278	68.26895	1054	1319	95.44997		99.7			91.4
Prior M18d	1228	1275	68.26895	1214	1287	95.44997	1230	1292	68.26895	1192	1357	95.44997		92.9			98.7
Prior M19d	776	975	68.26895	775	991	95.44997	838	1261	68.26895	777	1286	95.44997		101.3			65.1
Prior M20d	705	876	68.26895	678	886	95.44997	706	1270	68.26895	693	1279	95.44997		100.1			60.7
Boundary TS1 M1d Mod Char R1							1249	1346	68.26895	1224	1448	95.44997					95

1.32.3 - Dataset M1d; Run 2; Uniform Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R2 modChar	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.8 Aoverall 94.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-118	0	68.26895	-353	0	95.44997					82.3
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	1.8998	2.2195	68.26895	0.0828	2.323	95.44997		100			94.3
Sequence																	
Boundary Model M1d							1077	1205	68.26895	791	...	95.44997					81.6
Phase																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1141	1223	68.26895	1047	1257	95.44997		102.2			91.9
Prior M2d	683	827	68.26895	674	879	95.44997	1116	1234	68.26895	815	1268	95.44997		87.2			91.8
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1139	1223	68.26895	1039	1256	95.44997		101.7			91.8
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1143	1224	68.26895	1060	1257	95.44997		102.4			92.4
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1169	1233	68.26895	1076	1272	95.44997		97.2			98.1
Prior M6d	893	990	68.26895	775	1019	95.44997	1112	1234	68.26895	909	1255	95.44997		102.1			91.5
Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1179	1235	68.26895	1147	1294	95.44997		77.7			98.4
Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1175	1233	68.26895	1102	1286	95.44997		96.4			98.4

Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1153	1229	68.26895	1066	1258	95.44997		101.8			95.3
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1153	1230	68.26895	1067	1259	95.44997		101.7			95.4
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1155	1230	68.26895	1067	1260	95.44997		101.2			95.9
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1140	1223	68.26895	1045	1256	95.44997		102			91.9
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1140	1224	68.26895	1055	1256	95.44997		101.2			92.3
Prior M14d	894	991	68.26895	776	1020	95.44997	1116	1234	68.26895	910	1255	95.44997		101.6			91.2
Prior M15d	708	878	68.26895	680	889	95.44997	1115	1234	68.26895	824	1267	95.44997		99.3			91.6
Prior M16d	996	1150	68.26895	994	1157	95.44997	1136	1224	68.26895	1027	1254	95.44997		98.5			91.4
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1168	1233	68.26895	1073	1270	95.44997		97			98.1
Prior M18d	1027	1151	68.26895	996	1160	95.44997	1139	1223	68.26895	1039	1256	95.44997		101.5			91.5
Prior M19d	891	977	68.26895	775	1014	95.44997	1116	1234	68.26895	907	1256	95.44997		103.6			91.6
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1140	1223	68.26895	1044	1256	95.44997		102			91.8
Boundary TS1 M1d Mod Char R2							1194	1261	68.26895	1173	1312	95.44997					92.8

1.32.4 - Dataset M1d; Run 3; Uniform Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R3 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 100 Aoverall 99.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-63	0	68.26895	-616	0	95.44997					81.3
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.6
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			29.2
Sequence																	
Boundary Model M1d							526	1240	68.26895	456	1265	95.44997					45.1
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1175	1265	68.26895	1053	1327	95.44997		102.1			90.1
Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1159	1272	68.26895	1052	1303	95.44997		101			85.6
Prior M3d	705	875	68.26895	678	885	95.44997	693	1268	68.26895	676	1310	95.44997		99.6			52.2
Prior M4d	678	774	68.26895	662	873	95.44997	674	1268	68.26895	663	1315	95.44997		96			52.9
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1209	1282	68.26895	1165	1330	95.44997		96.3			95.1
Prior M6d	591	643	68.26895	561	652	95.44997	582	1272	68.26895	559	1325	95.44997		104.5			53.3
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1060	1222	68.26895	1037	1291	95.44997		100			74.8

Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1065	1267	68.26895	1050	1302	95.44997		100.7			84.3
Prior M9d	597	645	68.26895	566	653	95.44997	586	1272	68.26895	565	1322	95.44997		104.6			54.1
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1029	1251	68.26895	1000	1295	95.44997		100.3			68
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1025	1251	68.26895	998	1286	95.44997		100			68
Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1228	1282	68.26895	1185	1333	95.44997		95.3			94.4
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1040	1208	68.26895	1028	1287	95.44997		99.8			70.8
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1033	1249	68.26895	1024	1295	95.44997		100.3			68.9
Prior M15d	775	879	68.26895	687	949	95.44997	717	1275	68.26895	691	1310	95.44997		99.9			54
Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1056	1262	68.26895	1046	1297	95.44997		100.3			81
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1039	1247	68.26895	1028	1290	95.44997		100.2			71
Prior M18d	895	993	68.26895	777	1021	95.44997	894	1262	68.26895	887	1295	95.44997		100.1			58
Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1203	1279	68.26895	1162	1335	95.44997		97.8			95.3
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1050	1218	68.26895	1033	1290	95.44997		100.1			71.3
Last M1d R3 modChar							1236	1297	68.26895	1219	1370	95.44997					88.1
Boundary TS1 M1d Mod Char R3							1248	1331	68.26895	1226	1419	95.44997					95.1

1.32.5 - Dataset M1d; Run 4; Uniform Prior/200-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R4 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91.7 Aoverall 92.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-68	0	68.26895	-250	0	95.44997					98.6
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	1.3455	2.2586	68.26895	-3.30E-17	2.2793	95.44997		100			91.5
Sequence																	
Boundary Model M1d							903	1206	68.26895	838	1234	95.44997					87.8
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1179	1252	68.26895	1056	1297	95.44997		103.4			99.4
Prior M2d	994	1120	68.26895	991	1157	95.44997	1021	1231	68.26895	997	1255	95.44997		95.5			94.5
Prior M3d	775	973	68.26895	774	989	95.44997	927	1248	68.26895	885	1265	95.44997		98.2			91.5
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1094	1228	68.26895	1033	1260	95.44997		100.9			96.2
Prior M5d	775	880	68.26895	687	950	95.44997	879	1249	68.26895	858	1267	95.44997		75.2			91.2
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1074	1255	68.26895	1054	1271	95.44997		100.9			98.6
Prior M7d	1026	1151	68.26895	995	1159	95.44997	1090	1229	68.26895	1024	1264	95.44997		100.6			95.6
Prior M8d	899	1021	68.26895	892	1026	95.44997	962	1244	68.26895	907	1262	95.44997		104.6			91.9
Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1175	1251	68.26895	1056	1289	95.44997		103.2			99.3

Prior M10d	1035	1153	68.26895	998	1174	95.44997	1096	1229	68.26895	1034	1261	95.44997		100.9			96
Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1173	1251	68.26895	1055	1287	95.44997		102.9			99.3
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1074	1242	68.26895	1047	1265	95.44997		100.5			97.3
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1092	1229	68.26895	1034	1260	95.44997		100.1			96
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1099	1237	68.26895	1043	1263	95.44997		100.5			96.7
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1099	1238	68.26895	1044	1263	95.44997		100.4			97
Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1178	1251	68.26895	1056	1294	95.44997		103.5			99.3
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1072	1246	68.26895	1050	1267	95.44997		100.6			97.7
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1217	1276	68.26895	1177	1300	95.44997		76.2			99.3
Prior M19d	991	1114	68.26895	900	1154	95.44997	997	1233	68.26895	992	1264	95.44997		94.9			93.6
Prior M20d	903	1026	68.26895	892	1034	95.44997	979	1244	68.26895	909	1267	95.44997		107.3			92
Last M1d R4 modChar							1222	1278	68.26895	1193	1318	95.44997					99.4
Boundary TS1 M1d Mod Char R4							1228	1293	68.26895	1198	1341	95.44997					98.4

1.33.1 - Dataset M1d; Uniform Prior/Default Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model M1d");
    Phase()
    {
      Date(Prior("M1d","M1d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2d","M2d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3d","M3d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4d","M4d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5d","M5d.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6d","M6d.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7d","M7d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8d","M8d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9d","M9d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10d","M10d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11d","M11d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12d","M12d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13d","M13d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14d","M14d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15d","M15d.prior"))
{

```

```
    Outlier("Charcoal", 1);
};
Date(Prior("M16d", "M16d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17d", "M17d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18d", "M18d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19d", "M19d.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20d", "M20d.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1d Char R2");
};
};
```


1.33.2 - Dataset M1d; Run 1; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.3 Aoverall 98.3				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-60	1	68.26895	-274	1	95.44997					98.1
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	1.083	2.256	68.26895	3.60E-17	2.262	95.44997		100			89.1
Sequence																	
Boundary Model M1d							445	...	68.26895	410	...	95.44998					90.6
Phase																	
Prior M1d	1053	1221	68.26895	1045	1260	95.44997	1075	1274	68.26895	1054	1308	95.44997		99.2			98.9
Prior M2d	1053	1219	68.26895	1040	1252	95.44997	1066	1268	68.26895	1052	1308	95.44997		99			99.1
Prior M3d	417	535	68.26895	404	551	95.44997	467	929	68.26895	429	1034	95.44997		97.3			93.3
Prior M4d	1053	1221	68.26895	1045	1260	95.44997	1075	1274	68.26895	1053	1311	95.44997		99.1			98.9
Prior M5d	1042	1157	68.26895	1028	1202	95.44997	1062	1199	68.26895	1034	1283	95.44997		100.6			99.1
Prior M6d	1176	1260	68.26895	1053	1273	95.44997	1185	1274	68.26895	1059	1353	95.44997		99.4			99.1
Prior M7d	546	604	68.26895	439	645	95.44997	545	915	68.26895	536	1055	95.44997		102.5			94
Prior M8d	1031	1152	68.26895	997	1162	95.44997	1040	1182	68.26895	1023	1289	95.44997		100			98.9

Prior M9d	775	948	68.26895	774	976	95.44997	785	991	68.26895	775	1148	95.44997		100.1			98.8
Prior M10d	992	1115	68.26895	902	1155	95.44997	997	1151	68.26895	978	1285	95.44997		100.8			98.1
Prior M11d	777	977	68.26895	775	993	95.44997	885	1031	68.26895	777	1158	95.44997		100.1			98.6
Prior M12d	1034	1152	68.26895	997	1166	95.44997	1044	1183	68.26895	1026	1286	95.44997		100.1			98.9
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1052	1184	68.26895	1027	1281	95.44997		99.9			99.2
Prior M14d	992	1115	68.26895	901	1155	95.44997	996	1150	68.26895	912	1281	95.44997		100.7			97.9
Prior M15d	774	878	68.26895	683	942	95.44997	785	944	68.26895	691	1096	95.44997		101.7			98.4
Prior M16d	678	816	68.26895	666	876	95.44997	693	888	68.26895	668	1058	95.44997		96.6			97
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1071	1272	68.26895	1053	1311	95.44997		99.1			98.8
Prior M18d	1228	1275	68.26895	1214	1287	95.44997	1229	1289	68.26895	1187	1349	95.44997		95.4			98.9
Prior M19d	776	975	68.26895	775	991	95.44997	848	1013	68.26895	776	1156	95.44997		100			98.5
Prior M20d	705	876	68.26895	678	886	95.44997	710	927	68.26895	680	1074	95.44997		100.8			98
Boundary TS1 M1d Char R1							1254	1351	68.26895	1228	1422	95.44997					98.3

1.33.3 - Dataset M1d; Run 2; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 92.4 Aoverall 91.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-29	1	68.26895	-145	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	0.204	2.001	68.26895	3.60E-17	2.001	95.44997		100			97
Sequence																	
Boundary Model M1d							801	...	68.26895	772	...	95.44997					96.9
Phase																	
Prior M1d	1033	1152	68.26895	997	1165	95.44997	1041	1168	68.26895	1026	1224	95.44997		100.4			99.6
Prior M2d	683	827	68.26895	674	879	95.44997	816	1022	68.26895	789	1129	95.44997		72			98.3
Prior M3d	1028	1151	68.26895	996	1160	95.44997	1034	1165	68.26895	1001	1225	95.44997		100.2			99.6
Prior M4d	1038	1156	68.26895	1025	1200	95.44997	1063	1170	68.26895	1032	1225	95.44997		101			99.7
Prior M5d	1053	1221	68.26895	1045	1260	95.44997	1064	1235	68.26895	1053	1254	95.44997		97.9			99.6
Prior M6d	893	990	68.26895	775	1019	95.44997	907	1019	68.26895	879	1142	95.44997		103.5			99.1

Prior M7d	1179	1262	68.26895	1161	1272	95.44997	1174	1240	68.26895	1055	1290	95.44997		85.5			99.5
Prior M8d	1162	1251	68.26895	1050	1268	95.44997	1165	1237	68.26895	1054	1275	95.44997		99.4			99.5
Prior M9d	1047	1202	68.26895	1039	1214	95.44997	1059	1206	68.26895	1041	1237	95.44997		101.6			99.7
Prior M10d	1047	1203	68.26895	1039	1215	95.44997	1060	1207	68.26895	1042	1237	95.44997		101.5			99.7
Prior M11d	1048	1210	68.26895	1040	1217	95.44997	1059	1214	68.26895	1043	1240	95.44997		101.1			99.6
Prior M12d	1032	1152	68.26895	997	1163	95.44997	1038	1167	68.26895	1024	1225	95.44997		100.3			99.6
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1052	1166	68.26895	1027	1220	95.44997		100.3			99.8
Prior M14d	894	991	68.26895	776	1020	95.44997	907	1020	68.26895	881	1139	95.44997		103			99.2
Prior M15d	708	878	68.26895	680	889	95.44997	831	1021	68.26895	790	1117	95.44997		93.9			98.4
Prior M16d	996	1150	68.26895	994	1157	95.44997	1024	1162	68.26895	996	1208	95.44997		100.3			99.5
Prior M17d	1053	1220	68.26895	1044	1259	95.44997	1061	1233	68.26895	1052	1254	95.44997		97.7			99.6
Prior M18d	1027	1151	68.26895	996	1160	95.44997	1033	1165	68.26895	1000	1222	95.44997		100.2			99.6
Prior M19d	891	977	68.26895	775	1014	95.44997	901	1017	68.26895	843	1137	95.44997		104.9			99.2
Prior M20d	1031	1152	68.26895	997	1162	95.44997	1037	1167	68.26895	1023	1226	95.44997		100.4			99.6
Boundary TS1 M1d Char R2							1205	1273	68.26895	1180	1322	95.44997					98.9

1.33.4 - Dataset M1d; Run 3; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 101.7 Aoverall 101.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-117	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	3.60E-17	1.311	68.26895	3.60E-17	2.01	95.44997		100			86.3
Sequence																	
Boundary Model M1d							548	643	68.26895	469	943	95.44998					96.4
Phase																	
Prior M1d	1160	1225	68.26895	1049	1267	95.44997	1166	1252	68.26895	1052	1298	95.44997		101			99.1
Prior M2d	1053	1220	68.26895	1043	1258	95.44997	1057	1234	68.26895	1049	1273	95.44997		100.2			99.1
Prior M3d	705	875	68.26895	678	885	95.44997	708	885	68.26895	677	965	95.44997		100			97.9
Prior M4d	678	774	68.26895	662	873	95.44997	678	820	68.26895	663	948	95.44997		98.9			98
Prior M5d	1182	1266	68.26895	1166	1272	95.44997	1187	1273	68.26895	1163	1313	95.44997		98.2			99.1
Prior M6d	591	643	68.26895	561	652	95.44997	594	662	68.26895	561	946	95.44997		106			98.2
Prior M7d	1044	1164	68.26895	1033	1210	95.44997	1053	1173	68.26895	1033	1240	95.44997		100.2			99.1

Prior M8d	1053	1217	68.26895	1040	1224	95.44997	1054	1231	68.26895	1046	1268	95.44997		100			99
Prior M9d	597	645	68.26895	566	653	95.44997	599	663	68.26895	565	960	95.44997		106.2			98.5
Prior M10d	1027	1151	68.26895	996	1160	95.44997	1031	1160	68.26895	997	1213	95.44997		99.9			98.9
Prior M11d	1023	1151	68.26895	995	1158	95.44997	1027	1158	68.26895	996	1209	95.44997		100.1			99.1
Prior M12d	1227	1272	68.26895	1181	1283	95.44997	1227	1275	68.26895	1181	1317	95.44997		97.4			98.8
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1045	1161	68.26895	1023	1223	95.44997		99.7			99.2
Prior M14d	1031	1152	68.26895	997	1162	95.44997	1035	1162	68.26895	999	1224	95.44997		100			99
Prior M15d	775	879	68.26895	687	949	95.44997	782	895	68.26895	690	994	95.44997		100.3			98.2
Prior M16d	1049	1215	68.26895	1040	1219	95.44997	1054	1223	68.26895	1041	1258	95.44997		100.1			99
Prior M17d	1035	1153	68.26895	1022	1174	95.44997	1040	1163	68.26895	1024	1229	95.44997		100			99
Prior M18d	895	993	68.26895	777	1021	95.44997	901	998	68.26895	778	1109	95.44997		100			98.9
Prior M19d	1180	1264	68.26895	1163	1272	95.44997	1185	1269	68.26895	1160	1321	95.44997		99			99.1
Prior M20d	1040	1156	68.26895	1027	1201	95.44997	1050	1165	68.26895	1029	1232	95.44997		100.1			99.1
Last M1d R3 Char							1235	1282	68.26895	1218	1343	95.44997					98.3
Boundary TS1 M1d Char R3							1250	1326	68.26895	1227	1405	95.44997					98

1.33.5 - Dataset M1d; Run 4; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1d R4 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 91 Aoverall 91				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-64	1	68.26895	-235	1	95.44997					87
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	1.383	2.196	68.26895	3.60E-17	2.223	95.44997		100			93.3
Sequence																	
Boundary Model M1d							920	...	68.26895	858	...	95.44997					85.4
Phase																	
Prior M1d	1161	1251	68.26895	1049	1268	95.44997	1175	1250	68.26895	1057	1293	95.44997		101.8			99
Prior M2d	994	1120	68.26895	991	1157	95.44997	1021	1200	68.26895	996	1247	95.44997		95.5			93.4
Prior M3d	775	973	68.26895	774	989	95.44997	931	1206	68.26895	885	1256	95.44997		97.6			84.5
Prior M4d	1034	1152	68.26895	997	1167	95.44997	1088	1206	68.26895	1033	1254	95.44997		101.4			96.7
Prior M5d	775	880	68.26895	687	950	95.44997	930	1209	68.26895	862	1258	95.44997		74.1			84.9
Prior M6d	1052	1216	68.26895	1040	1222	95.44997	1138	1249	68.26895	1054	1270	95.44997		99.5			98.6
Prior M7d	1026	1151	68.26895	995	1159	95.44997	1086	1208	68.26895	1024	1257	95.44997		101			96
Prior M8d	899	1021	68.26895	892	1026	95.44997	974	1199	68.26895	909	1251	95.44997		105			87.1

Prior M9d	1159	1224	68.26895	1048	1266	95.44997	1171	1250	68.26895	1057	1288	95.44997		101.4			98.9
Prior M10d	1035	1153	68.26895	998	1174	95.44997	1088	1207	68.26895	1033	1254	95.44997		101.4			96.5
Prior M11d	1158	1223	68.26895	1048	1265	95.44997	1168	1250	68.26895	1057	1285	95.44997		101			98.8
Prior M12d	1045	1198	68.26895	1036	1212	95.44997	1101	1228	68.26895	1047	1262	95.44997		101.1			97.9
Prior M13d	1035	1152	68.26895	1021	1168	95.44997	1086	1208	68.26895	1033	1253	95.44997		100.8			97
Prior M14d	1044	1162	68.26895	1032	1209	95.44997	1098	1220	68.26895	1043	1259	95.44997		101.4			97.5
Prior M15d	1044	1163	68.26895	1033	1210	95.44997	1099	1221	68.26895	1044	1259	95.44997		101.4			97.4
Prior M16d	1160	1226	68.26895	1049	1268	95.44997	1173	1250	68.26895	1057	1292	95.44997		101.7			98.9
Prior M17d	1047	1208	68.26895	1040	1216	95.44997	1075	1236	68.26895	1050	1264	95.44997		100.7			98.1
Prior M18d	1226	1269	68.26895	1179	1281	95.44997	1217	1277	68.26895	1175	1298	95.44997		75.7			99
Prior M19d	991	1114	68.26895	900	1154	95.44997	998	1196	68.26895	992	1254	95.44997		94.6			90.4
Prior M20d	903	1026	68.26895	892	1034	95.44997	982	1197	68.26895	911	1258	95.44997		108			86.8
Last M1d R4 Char							1222	1279	68.26895	1192	1314	95.44997					98.3
Boundary TS1 M1d Char R4							1229	1293	68.26895	1198	1336	95.44997					98.4

1.34.1 - Dataset M1e; Combine Model; Model Script

```
Options()  
{  
  Resolution=1 year;  
};  
Combine(TS1_M1e_R1)  
{  
  Date(Prior("M1e","M1e.prior"));  
  Date(Prior("M2e","M2e.prior"));  
  Date(Prior("M3e","M3e.prior"));  
  Date(Prior("M4e","M4e.prior"));  
  Date(Prior("M5e","M5e.prior"));  
  Date(Prior("M6e","M6e.prior"));  
  Date(Prior("M7e","M7e.prior"));  
  Date(Prior("M8e","M8e.prior"));  
  Date(Prior("M9e","M9e.prior"));  
  Date(Prior("M10e","M10e.prior"));  
  Date(Prior("M11e","M11e.prior"));  
  Date(Prior("M12e","M12e.prior"));  
  Date(Prior("M13e","M13e.prior"));  
  Date(Prior("M14e","M14e.prior"));  
  Date(Prior("M15e","M15e.prior"));  
  Date(Prior("M16e","M16e.prior"));  
  Date(Prior("M17e","M17e.prior"));  
  Date(Prior("M18e","M18e.prior"));  
  Date(Prior("M19e","M19e.prior"));  
  Date(Prior("M20e","M20e.prior"));  
};
```

1.34.2 - Dataset M1e; Run 1; Combine Model; Table of Distributions

Name: TS1 M1e R1 Combine	Unmodel led (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1e_R1																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997											
Prior M2e	889	977	68.26895	775	994	95.44997											
Prior M3e	652	772	68.26895	644	774	95.44997											
Prior M4e	1044	1161	68.26895	1031	1209	95.44997											
Prior M5e	404	534	68.26895	265	541	95.44997											
Prior M6e	979	1031	68.26895	894	1145	95.44997											
Prior M7e	1049	1214	68.26895	1040	1219	95.44997											
Prior M8e	601	646	68.26895	570	655	95.44997											
Prior M9e	1023	1151	68.26895	995	1158	95.44997											
Prior M10e	24	121	68.26895	-40	203	95.44997											
Prior M11e	-151	-51	68.26895	-339	5	95.44997											
Prior M12e	1219	1266	68.26895	1168	1277	95.44997											
Prior M13e	-366	-207	68.26895	-389	-198	95.44997											
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997											
Prior M15e	900	1023	68.26895	892	1030	95.44997											
Prior M16e	1047	1207	68.26895	1039	1216	95.44997											
Prior M17e	895	993	68.26895	777	1021	95.44997											

Prior M18e	264	428	68.26895	258	535	95.44997											
Prior M19e	436	572	68.26895	430	592	95.44997											
Prior M20e	1046	1199	68.26895	1036	1213	95.44997											

1.34.3 - Dataset M1e; Run 2; Combine Model; Table of Distributions

Name: TS1 M1e R2 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1e_R2																	
Prior M1e	653	772	68.26895	645	774	95.44997											
Prior M2e	1053	1220	68.26895	1044	1259	95.44997											
Prior M3e	777	977	68.26895	775	993	95.44997											
Prior M4e	1040	1156	68.26895	1027	1201	95.44997											
Prior M5e	891	977	68.26895	775	1013	95.44997											
Prior M6e	123	209	68.26895	70	236	95.44997											
Prior M7e	1043	1157	68.26895	1028	1203	95.44997											
Prior M8e	1182	1266	68.26895	1167	1273	95.44997											
Prior M9e	775	940	68.26895	709	976	95.44997											
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997											
Prior M11e	1217	1267	68.26895	1168	1275	95.44997											
Prior M12e	262	407	68.26895	250	420	95.44997											
Prior M13e	1168	1259	68.26895	1053	1271	95.44997											

Prior M14e	775	945	68.26895	774	976	95.44997											
Prior M15e	776	976	68.26895	775	992	95.44997											
Prior M16e	440	592	68.26895	433	601	95.44997											
Prior M17e	1050	1216	68.26895	1040	1220	95.44997											
Prior M18e	1043	1159	68.26895	1029	1207	95.44997											
Prior M19e	683	824	68.26895	673	878	95.44997											
Prior M20e	129	213	68.26895	79	244	95.44997											

1.34.4 - Dataset M1e; Run 3; Combine Model; Table of Distributions

Name: TS1 M1e R3 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1e_R3																	
Prior M1e	670	773	68.26895	657	820	95.44997											
Prior M2e	708	878	68.26895	680	889	95.44997											
Prior M3e	898	1019	68.26895	892	1023	95.44997											
Prior M4e	657	772	68.26895	650	774	95.44997											
Prior M5e	1265	1298	68.26895	1226	1381	95.44997											

Prior M6e	1044	1161	68.26895	1031	1209	95.44997											
Prior M7e	250	363	68.26895	243	403	95.44997											
Prior M8e	-43	60	68.26895	-92	119	95.44997											
Prior M9e	1044	1162	68.26895	1032	1210	95.44997											
Prior M10e	553	634	68.26895	444	648	95.44997											
Prior M11e	538	603	68.26895	435	640	95.44997											
Prior M12e	775	888	68.26895	706	974	95.44997											
Prior M13e	706	877	68.26895	679	887	95.44997											
Prior M14e	-338	-59	68.26895	-351	-48	95.44997											
Prior M15e	892	989	68.26895	775	1018	95.44997											
Prior M16e	1221	1265	68.26895	1176	1278	95.44997											
Prior M17e	775	887	68.26895	706	973	95.44997											
Prior M18e	775	885	68.26895	705	973	95.44997											
Prior M19e	898	1019	68.26895	892	1023	95.44997											
Prior M20e	1053	1221	68.26895	1046	1261	95.44997											

1.34.5 - Dataset M1e; Run 4; Combine Model; Table of Distributions

Name: TS1 M1e R4 Combine	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Combine TS1_M1e_R4																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997											
Prior M2e	-793	-573	68.26895	-802	-545	95.44997											
Prior M3e	775	974	68.26895	774	990	95.44997											
Prior M4e	1040	1156	68.26895	1027	1201	95.44997											
Prior M5e	25	124	68.26895	-34	204	95.44997											
Prior M6e	990	1038	68.26895	898	1152	95.44997											
Prior M7e	1029	1151	68.26895	996	1161	95.44997											
Prior M8e	677	774	68.26895	664	875	95.44997											
Prior M9e	440	590	68.26895	433	600	95.44997											
Prior M10e	1179	1261	68.26895	1159	1273	95.44997											
Prior M11e	774	878	68.26895	683	942	95.44997											
Prior M12e	1038	1155	68.26895	1025	1199	95.44997											
Prior M13e	1043	1160	68.26895	1030	1207	95.44997											
Prior M14e	1027	1151	68.26895	996	1160	95.44997											
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997											
Prior M16e	-151	-51	68.26895	-339	5	95.44997											
Prior M17e	894	992	68.26895	776	1021	95.44997											

Prior M18e	235	332	68.26895	209	379	95.44997											
Prior M19e	979	1033	68.26895	895	1148	95.44997											
Prior M20e	607	664	68.26895	595	771	95.44997											

1.35.1 - Dataset M1e; Exponential Prior/No Outlier Model; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Tau_Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e", "M1e.prior"));
      Date(Prior("M2e", "M2e.prior"));
      Date(Prior("M3e", "M3e.prior"));
      Date(Prior("M4e", "M4e.prior"));
      Date(Prior("M5e", "M5e.prior"));
      Date(Prior("M6e", "M6e.prior"));
      Date(Prior("M7e", "M7e.prior"));
      Date(Prior("M8e", "M8e.prior"));
      Date(Prior("M9e", "M9e.prior"));
      Date(Prior("M10e", "M10e.prior"));
      Date(Prior("M11e", "M11e.prior"));
      Date(Prior("M12e", "M12e.prior"));
      Date(Prior("M13e", "M13e.prior"));
      Date(Prior("M14e", "M14e.prior"));
      Date(Prior("M15e", "M15e.prior"));
      Date(Prior("M16e", "M16e.prior"));
      Date(Prior("M17e", "M17e.prior"));
      Date(Prior("M18e", "M18e.prior"));
      Date(Prior("M19e", "M19e.prior"));
      Date(Prior("M20e", "M20e.prior"));
    };
    Boundary("TS1 M1e Tau R1");
  };
};
```


};

1.35.2 - Dataset M1e; Run 1; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1e R1 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98 Aoverall 97.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1e							420	746	68.26895	163	844	95.44997					97.6
Phase																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1180	1261	68.26895	1166	1269	95.44997		94.4			99.7
Prior M2e	889	977	68.26895	775	994	95.44997	890	987	68.26895	775	1011	95.44997		101.1			99.7
Prior M3e	652	772	68.26895	644	774	95.44997	653	772	68.26895	644	774	95.44997		99			99.7
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1046	1162	68.26895	1032	1210	95.44997		99.2			99.8
Prior M5e	404	534	68.26895	265	541	95.44997	404	535	68.26895	267	543	95.44997		100.4			99.7
Prior M6e	979	1031	68.26895	894	1145	95.44997	979	1032	68.26895	895	1147	95.44997		100.4			99.6
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1050	1214	68.26895	1041	1219	95.44997		100.3			99.8
Prior M8e	601	646	68.26895	570	655	95.44997	601	646	68.26895	571	655	95.44997		100.5			99.6
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1025	1152	68.26895	995	1159	95.44997		99.9			99.7
Prior M10e	24	121	68.26895	-40	203	95.44997	25	121	68.26895	-39	204	95.44997		99.7			99.6
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-150	-50	68.26895	-336	6	95.44997		100.5			99.5
Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1181	1263	68.26895	1167	1270	95.44997		93.1			99.6

Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-362	-205	68.26895	-389	-178	95.44997		100.2			99.6
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2192	-2036	68.26895	-2204	-1979	95.44997		100.5			99.6
Prior M15e	900	1023	68.26895	892	1030	95.44997	901	1024	68.26895	893	1031	95.44997		101.2			99.5
Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1048	1209	68.26895	1041	1216	95.44997		99.7			99.7
Prior M17e	895	993	68.26895	777	1021	95.44997	896	993	68.26895	885	1021	95.44997		100.2			99.6
Prior M18e	264	428	68.26895	258	535	95.44997	265	430	68.26895	258	536	95.44997		99.2			99.6
Prior M19e	436	572	68.26895	430	592	95.44997	437	574	68.26895	431	594	95.44997		100.1			99.6
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1048	1200	68.26895	1038	1213	95.44997		99.3			99.8
Boundary TS1 M1e Tau R1							1227	1299	68.26895	1191	1368	95.44997					98.4

1.35.3 - Dataset M1e; Run 2; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1e R2 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.2 Aoverall 98.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1e							625	867	68.26895	428	944	95.44997					97.6
Phase																	
Prior M1e	653	772	68.26895	645	774	95.44997	654	772	68.26895	645	774	95.44997		98.9			99.7
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1055	1221	68.26895	1045	1254	95.44997		103.6			99.8
Prior M3e	777	977	68.26895	775	993	95.44997	886	988	68.26895	775	994	95.44997		101.6			99.6

Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1045	1159	68.26895	1028	1202	95.44997		99.3			99.8
Prior M5e	891	977	68.26895	775	1013	95.44997	892	989	68.26895	775	1017	95.44997		101.3			99.7
Prior M6e	123	209	68.26895	70	236	95.44997	125	210	68.26895	75	237	95.44997		100.9			99.7
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1046	1159	68.26895	1029	1206	95.44997		99.2			99.7
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1179	1256	68.26895	1164	1267	95.44997		95.7			99.7
Prior M9e	775	940	68.26895	709	976	95.44997	775	946	68.26895	773	977	95.44997		98.6			99.7
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997	-1220	-1057	68.26895	-1263	-1018	95.44997		99.1			99.6
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1180	1259	68.26895	1166	1268	95.44997		93.7			99.6
Prior M12e	262	407	68.26895	250	420	95.44997	264	409	68.26895	251	421	95.44997		100.7			99.7
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1167	1230	68.26895	1053	1268	95.44997		102.8			99.7
Prior M14e	775	945	68.26895	774	976	95.44997	775	948	68.26895	774	977	95.44997		98.6			99.6
Prior M15e	776	976	68.26895	775	992	95.44997	776	977	68.26895	775	992	95.44997		101.4			99.7
Prior M16e	440	592	68.26895	433	601	95.44997	442	595	68.26895	433	602	95.44997		101.4			99.7
Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1052	1216	68.26895	1043	1221	95.44997		101.3			99.8
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1047	1161	68.26895	1031	1208	95.44997		99.1			99.8
Prior M19e	683	824	68.26895	673	878	95.44997	685	864	68.26895	676	879	95.44997		97.6			99.7
Prior M20e	129	213	68.26895	79	244	95.44997	129	216	68.26895	80	245	95.44997		100.3			99.6
Boundary TS1 M1e Tau R2							1226	1287	68.26895	1197	1342	95.44997					98.5

1.35.4 - Dataset M1e; Run 3; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1e R3 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.4 Aoverall 97.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1e							637	886	68.26895	446	965	95.44997					96.7
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	672	773	68.26895	658	822	95.44997		99			99.3
Prior M2e	708	878	68.26895	680	889	95.44997	774	880	68.26895	681	891	95.44997		100.7			99.5
Prior M3e	898	1019	68.26895	892	1023	95.44997	899	1020	68.26895	892	1024	95.44997		100.5			99.3
Prior M4e	657	772	68.26895	650	774	95.44997	658	772	68.26895	651	774	95.44997		99.6			99.3
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1229	1290	68.26895	1224	1297	95.44997		87.4			99.4
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1046	1163	68.26895	1033	1211	95.44997		98.8			99.6
Prior M7e	250	363	68.26895	243	403	95.44997	251	378	68.26895	245	404	95.44997		99.3			99.3
Prior M8e	-43	60	68.26895	-92	119	95.44997	-42	62	68.26895	-90	120	95.44997		99			99.3
Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1046	1164	68.26895	1034	1211	95.44997		98.7			99.5
Prior M10e	553	634	68.26895	444	648	95.44997	556	636	68.26895	484	648	95.44997		100.5			99.5
Prior M11e	538	603	68.26895	435	640	95.44997	540	602	68.26895	436	641	95.44997		102			99.5
Prior M12e	775	888	68.26895	706	974	95.44997	775	890	68.26895	708	975	95.44997		99			99.4
Prior M13e	706	877	68.26895	679	887	95.44997	709	879	68.26895	680	889	95.44997		100.5			99.4
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-197	-57	68.26895	-350	-46	95.44997		100.7			99.2

Prior M15e	892	989	68.26895	775	1018	95.44997	894	990	68.26895	775	1019	95.44997		101			99.2
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1220	1264	68.26895	1176	1277	95.44997		100.4			99.5
Prior M17e	775	887	68.26895	706	973	95.44997	775	889	68.26895	707	975	95.44997		99.2			99.4
Prior M18e	775	885	68.26895	705	973	95.44997	775	887	68.26895	706	974	95.44997		99.5			99.3
Prior M19e	898	1019	68.26895	892	1023	95.44997	899	1020	68.26895	892	1024	95.44997		100.5			99.4
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1055	1222	68.26895	1047	1261	95.44997		102.2			99.5
Last M1e R3 Tau							1234	1291	68.26895	1227	1298	95.44997					99.5
Boundary TS1 M1e Tau R3							1257	1320	68.26895	1229	1371	95.44997					98.3

1.35.5 - Dataset M1e; Run 4; Exponential Prior/No Outlier Model; Table of Distributions

Name: TS1 M1e R4 Tau	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 95.4 Aoverall 95.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Tau_Boundary Model M1e							278	644	68.26895	-6	756	95.44997					96.7
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1893	-1770	68.26895	-1940	-1743	95.44997		100.6			99.5
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-792	-571	68.26895	-802	-544	95.44997		97.3			99.6
Prior M3e	775	974	68.26895	774	990	95.44997	776	974	68.26895	774	991	95.44997		100.2			99.7
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1042	1157	68.26895	1027	1199	95.44997		101			99.7

Prior M5e	25	124	68.26895	-34	204	95.44997	25	125	68.26895	-30	205	95.44997		99.4			99.7
Prior M6e	990	1038	68.26895	898	1152	95.44997	990	1111	68.26895	899	1153	95.44997		99.2			99.7
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1030	1151	68.26895	997	1161	95.44997		100.5			99.6
Prior M8e	677	774	68.26895	664	875	95.44997	678	796	68.26895	665	876	95.44997		98.2			99.7
Prior M9e	440	590	68.26895	433	600	95.44997	441	593	68.26895	433	601	95.44997		100.9			99.7
Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1161	1228	68.26895	1050	1266	95.44997		82.5			99.5
Prior M11e	774	878	68.26895	683	942	95.44997	775	879	68.26895	686	946	95.44997		100.5			99.7
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1039	1156	68.26895	1025	1176	95.44997		100.9			99.7
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1046	1160	68.26895	1030	1202	95.44997		101.2			99.8
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1028	1151	68.26895	996	1160	95.44997		100.5			99.7
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1260	-1125	68.26895	-1369	-1054	95.44997		100			99.5
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-150	-50	68.26895	-337	6	95.44997		100.5			99.5
Prior M17e	894	992	68.26895	776	1021	95.44997	895	992	68.26895	776	1021	95.44997		100.3			99.6
Prior M18e	235	332	68.26895	209	379	95.44997	236	333	68.26895	210	379	95.44997		100			99.6
Prior M19e	979	1033	68.26895	895	1148	95.44997	980	1033	68.26895	896	1149	95.44997		99.8			99.6
Prior M20e	607	664	68.26895	595	771	95.44997	608	664	68.26895	596	771	95.44997		99.8			99.8
Last M1e R4 Tua							1162	1225	68.26895	1124	1264	95.44997					99.6
Boundary TS1 M1e Tau R4							1174	1272	68.26895	1125	1354	95.44997					97.9

1.36.1 - Dataset M1e; Exponential Prior/500-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.7),"t");
  Sequence()
  {
    Tau_Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e","M1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2e","M2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3e","M3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4e","M4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5e","M5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6e","M6e.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7e","M7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8e","M8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9e","M9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10e","M10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11e","M11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12e","M12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13e","M13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14e","M14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15e","M15e.prior"))
{

```



```

    Outlier("Charcoal", 1);
};
Date(Prior("M16e", "M16e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17e", "M17e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18e", "M18e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19e", "M19e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20e", "M20e.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1e Tau Mod Char R1");
};
};

```

1.36.2 - Dataset M1e; Run 1; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R1 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.4 Aoverall 97.9				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-118	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	0.0189	1.6227	68.26895	4.34E-19	2.0115	95.44997		100			97.3
Sequence																	
Tau_Boundary Model M1e							440	770	68.26895	183	875	95.44997					98.1
Phase																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1186	1274	68.26895	1165	1309	95.44997		94.5			99.6
Prior M2e	889	977	68.26895	775	994	95.44997	895	995	68.26895	776	1088	95.44997		101.1			99.5
Prior M3e	652	772	68.26895	644	774	95.44997	655	778	68.26895	643	874	95.44997		99			99.2
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1058	1176	68.26895	1034	1243	95.44997		99.6			99.6
Prior M5e	404	534	68.26895	265	541	95.44997	410	542	68.26895	266	633	95.44997		100.3			99.1
Prior M6e	979	1031	68.26895	894	1145	95.44997	911	1060	68.26895	900	1160	95.44997		100.4			99.4
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1056	1223	68.26895	1042	1261	95.44997		100.3			99.6
Prior M8e	601	646	68.26895	570	655	95.44997	599	660	68.26895	562	748	95.44997		100.7			99.5
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1028	1161	68.26895	997	1217	95.44997		100			99.5

Prior M10e	24	121	68.26895	-40	203	95.44997	23	139	68.26895	-37	239	95.44997		99.8			99.4
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-151	-37	68.26895	-336	76	95.44997		100.6			99.3
Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1214	1277	68.26895	1167	1309	95.44997		93.5			99.6
Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-360	-195	68.26895	-388	-123	95.44997		100.2			99.5
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2185	-2023	68.26895	-2267	-1914	95.44997		100.6			99.2
Prior M15e	900	1023	68.26895	892	1030	95.44997	906	1037	68.26895	893	1125	95.44997		101			99.4
Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1057	1218	68.26895	1039	1254	95.44997		99.8			99.7
Prior M17e	895	993	68.26895	777	1021	95.44997	903	1001	68.26895	778	1124	95.44997		100.3			99.5
Prior M18e	264	428	68.26895	258	535	95.44997	270	533	68.26895	260	582	95.44997		99.4			99.3
Prior M19e	436	572	68.26895	430	592	95.44997	448	594	68.26895	425	665	95.44997		100.1			99.4
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1057	1209	68.26895	1037	1249	95.44997		99.6			99.7
Boundary TS1 M1e Tau Mod Char R1							1235	1322	68.26895	1201	1404	95.44997					98.9

1.36.3 - Dataset M1e; Run 2; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R2 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99 Aoverall 98.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-103	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	4.34E-19	1.296	68.26895	4.34E-19	1.944	95.44997		100		97.8
Sequence																
Tau_Boundary Model M1e							639	888	68.26895	443	972	95.44997				97.8
Phase																
Prior M1e	653	772	68.26895	645	774	95.44997	657	777	68.26895	644	866	95.44997		98.9		98.9
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1069	1238	68.26895	1051	1270	95.44997		102.8		99.1
Prior M3e	777	977	68.26895	775	993	95.44997	892	994	68.26895	776	1069	95.44997		101.7		98.8
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1061	1169	68.26895	1030	1229	95.44997		99.6		99.3
Prior M5e	891	977	68.26895	775	1013	95.44997	900	995	68.26895	777	1081	95.44997		101.4		99.1
Prior M6e	123	209	68.26895	70	236	95.44997	128	228	68.26895	63	323	95.44997		100.9		98.7
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1060	1170	68.26895	1032	1231	95.44997		99.5		99.2
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1186	1268	68.26895	1164	1299	95.44997		95.5		99.2
Prior M9e	775	940	68.26895	709	976	95.44997	780	958	68.26895	711	1033	95.44997		98.6		98.6
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997	-1212	-1054	68.26895	-1270	-972	95.44997		99.1		98.7
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1185	1272	68.26895	1166	1299	95.44997		93.8		99.2
Prior M12e	262	407	68.26895	250	420	95.44997	266	423	68.26895	251	529	95.44997		100.6		98.6
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1180	1253	68.26895	1056	1304	95.44997		102.3		99.2
Prior M14e	775	945	68.26895	774	976	95.44997	780	974	68.26895	717	1044	95.44997		98.6		98.9
Prior M15e	776	976	68.26895	775	992	95.44997	844	995	68.26895	776	1047	95.44997		101.3		98.7
Prior M16e	440	592	68.26895	433	601	95.44997	446	607	68.26895	429	671	95.44997		101.4		98.6

Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1056	1227	68.26895	1046	1258	95.44997		101.1			99.1
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1060	1171	68.26895	1033	1234	95.44997		99.4			99.1
Prior M19e	683	824	68.26895	673	878	95.44997	695	876	68.26895	671	928	95.44997		97.7			98.6
Prior M20e	129	213	68.26895	79	244	95.44997	141	237	68.26895	81	327	95.44997		100.3			99
Boundary TS1 M1e Tau Mod Char R2							1234	1308	68.26895	1207	1371	95.44997					98.2

1.36.4 - Dataset M1e; Run 3; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R3 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.8 Aoverall 98.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-84	1	68.26895	-457	1	95.44997					90.3
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.7
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	0.0351	2.6595	68.26895	4.34E-19	2.6622	95.44997		100			28.5
Sequence																	
Tau_Boundary Model M1e							667	1006	68.26895	489	1193	95.44997					66.3
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	668	866	68.26895	660	1298	95.44997		99.1			80.3
Prior M2e	708	878	68.26895	680	889	95.44997	709	959	68.26895	688	1291	95.44997		100.8			79.2
Prior M3e	898	1019	68.26895	892	1023	95.44997	900	1070	68.26895	893	1300	95.44997		100.4			81.3

Prior M4e	657	772	68.26895	650	774	95.44997	657	835	68.26895	650	1278	95.44997		99.6			80
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1237	1322	68.26895	1225	1373	95.44997		93			84.5
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1063	1219	68.26895	1037	1330	95.44997		99.7			84.9
Prior M7e	250	363	68.26895	243	403	95.44997	248	461	68.26895	236	1312	95.44998		99.3			82.1
Prior M8e	-43	60	68.26895	-92	119	95.44997	-45	167	68.26895	-97	...	95.44997		99			76.8
Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1063	1222	68.26895	1037	1330	95.44997		99.7			85.5
Prior M10e	553	634	68.26895	444	648	95.44997	546	721	68.26895	482	1303	95.44997		100.6			81.2
Prior M11e	538	603	68.26895	435	640	95.44997	461	715	68.26895	436	1278	95.44997		101.9			79.9
Prior M12e	775	888	68.26895	706	974	95.44997	780	981	68.26895	717	1311	95.44997		99.2			80.3
Prior M13e	706	877	68.26895	679	887	95.44997	708	952	68.26895	684	1288	95.44997		100.6			80.7
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-339	35	68.26895	-350	1326	95.44997		101			78.7
Prior M15e	892	989	68.26895	775	1018	95.44997	889	1065	68.26895	779	1317	95.44997		101.1			81.8
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1222	1298	68.26895	1178	1363	95.44997		98.5			87.1
Prior M17e	775	887	68.26895	706	973	95.44997	779	986	68.26895	714	1306	95.44997		99.3			79.2
Prior M18e	775	885	68.26895	705	973	95.44997	780	985	68.26895	711	1294	95.44997		99.7			81.1
Prior M19e	898	1019	68.26895	892	1023	95.44997	900	1070	68.26895	892	1305	95.44997		100.4			79.8
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1161	1285	68.26895	1054	1345	95.44997		101.3			87.2
Last M1e R3 TmodC							1257	1335	68.26895	1228	1401	95.44997					78.7
Boundary TS1 M1e Tau Mod Char R3							1274	1363	68.26895	1239	1439	95.44997					87.7

1.36.5 - Dataset M1e; Run 4; Exponential Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R4 Tau mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.6 Aoverall 97.2				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-22	1	68.26895	-168	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	4.34E-19	1.4499	68.26895	4.34E-19	2.1438	95.44997		100			89.4
Sequence																	
Tau_Boundary Model M1e							287	677	68.26895	7	815	95.44997					95.2
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1889	-1745	68.26895	-1954	-1593	95.44997		100.7			96.7
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-787	-547	68.26895	-801	-425	95.44997		97.2			95.8
Prior M3e	775	974	68.26895	774	990	95.44997	840	988	68.26895	775	1094	95.44997		100.3			96.5
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1050	1168	68.26895	1029	1247	95.44997		101.1			97.4
Prior M5e	25	124	68.26895	-34	204	95.44997	29	160	68.26895	-36	291	95.44997		99.7			96.8
Prior M6e	990	1038	68.26895	898	1152	95.44997	992	1126	68.26895	902	1216	95.44997		99.6			97.3
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1034	1164	68.26895	998	1239	95.44997		100.5			97.4
Prior M8e	677	774	68.26895	664	875	95.44997	686	826	68.26895	664	952	95.44997		98.1			96.6
Prior M9e	440	590	68.26895	433	600	95.44997	447	607	68.26895	424	750	95.44997		100.8			96.6

Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1166	1249	68.26895	1052	1318	95.44997		85.8			96.2
Prior M11e	774	878	68.26895	683	942	95.44997	721	901	68.26895	685	1034	95.44997		100.5			97.1
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1050	1168	68.26895	1027	1246	95.44997		101			97.3
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1057	1175	68.26895	1032	1247	95.44997		101.3			97.3
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1031	1164	68.26895	998	1228	95.44997		100.5			96.8
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1255	-1111	68.26895	-1377	-941	95.44997		100.1			96.5
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-158	-35	68.26895	-339	132	95.44997		100.4			96
Prior M17e	894	992	68.26895	776	1021	95.44997	900	999	68.26895	778	1148	95.44997		100.4			97.3
Prior M18e	235	332	68.26895	209	379	95.44997	238	356	68.26895	172	532	95.44997		100.1			96.3
Prior M19e	979	1033	68.26895	895	1148	95.44997	979	1119	68.26895	899	1184	95.44997		100.3			96.7
Prior M20e	607	664	68.26895	595	771	95.44997	611	680	68.26895	588	873	95.44997		99.9			96.9
Last M1e R4 TmodC							1167	1252	68.26895	1113	1349	95.44997					96.2
Boundary TS1 M1e Tau Mod Char R4							1182	1298	68.26895	1135	1415	95.44997					94.9

1.37.1 - Dataset M1e; Exponential Prior/Default Charcoal Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Tau_Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e","M1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2e","M2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3e","M3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4e","M4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5e","M5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6e","M6e.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7e","M7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8e","M8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9e","M9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10e","M10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11e","M11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12e","M12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13e","M13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14e","M14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15e","M15e.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16e","M16e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17e","M17e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18e","M18e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19e","M19e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20e","M20e.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1e Tau and Char R1");
};
};

```

1.37.2 - Dataset M1e; Run 1; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1e R1 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.1 Aoverall 97.8				
-------------------------------	--------------------	--	--	--	--	--	------------------	--	--	--	--	--	---	--	--	--	--

	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-98	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	1.392	68.26895	3.60E-17	1.896	95.44997		100			98
Sequence																	
Tau_Boundary Model M1e							438	770	68.26895	177	870	95.44997					96.8
Phase																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1185	1272	68.26895	1165	1301	95.44997		94.4			98.1
Prior M2e	889	977	68.26895	775	994	95.44997	897	994	68.26895	777	1075	95.44997		101.2			98
Prior M3e	652	772	68.26895	644	774	95.44997	656	776	68.26895	644	844	95.44997		99			98.2
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1059	1173	68.26895	1034	1234	95.44997		99.5			98.1
Prior M5e	404	534	68.26895	265	541	95.44997	410	541	68.26895	267	604	95.44997		100.3			97.9
Prior M6e	979	1031	68.26895	894	1145	95.44997	979	1055	68.26895	900	1155	95.44997		100.6			98.3
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1055	1222	68.26895	1042	1252	95.44997		100.3			98.4
Prior M8e	601	646	68.26895	570	655	95.44997	600	658	68.26895	561	730	95.44997		100.5			98.4
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1028	1160	68.26895	997	1208	95.44997		100			98.2
Prior M10e	24	121	68.26895	-40	203	95.44997	24	135	68.26895	-35	221	95.44997		99.7			98
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-149	-39	68.26895	-334	57	95.44997		100.6			97.8
Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1188	1276	68.26895	1167	1302	95.44997		93.3			98.6
Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-360	-196	68.26895	-387	-140	95.44997		100.2			97.6
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2184	-2025	68.26895	-2266	-1934	95.44997		100.5			97.4
Prior M15e	900	1023	68.26895	892	1030	95.44997	906	1036	68.26895	893	1114	95.44997		101.2			98.2

Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1056	1217	68.26895	1039	1246	95.44997		99.8			98.3
Prior M17e	895	993	68.26895	777	1021	95.44997	903	1000	68.26895	778	1105	95.44997		100.2			98.1
Prior M18e	264	428	68.26895	258	535	95.44997	269	532	68.26895	261	565	95.44997		99.3			97.6
Prior M19e	436	572	68.26895	430	592	95.44997	447	590	68.26895	426	646	95.44997		100			97.8
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1056	1207	68.26895	1037	1240	95.44997		99.5			98.3
Boundary TS1 M1e Tau and Char R1							1236	1321	68.26895	1202	1398	95.44997					96.4

1.37.3 - Dataset M1e; Run 2; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1e R2 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99 Aoverall 98.7				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-19	1	68.26895	-147	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	3.60E-17	1.41	68.26895	3.60E-17	2.106	95.44997		100			88.4
Sequence																	
Tau_Boundary Model M1e							637	895	68.26895	443	993	95.44997					97.9
Phase																	
Prior M1e	653	772	68.26895	645	774	95.44997	656	778	68.26895	616	930	95.44997		99			98.6
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1068	1241	68.26895	1050	1282	95.44997		102.7			99.2

Prior M3e	777	977	68.26895	775	993	95.44997	890	996	68.26895	776	1104	95.44997		101.6			99
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1053	1170	68.26895	1029	1248	95.44997		99.7			99.2
Prior M5e	891	977	68.26895	775	1013	95.44997	896	996	68.26895	776	1128	95.44997		101.3			99.1
Prior M6e	123	209	68.26895	70	236	95.44997	127	233	68.26895	34	372	95.44997		100.9			99
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1052	1172	68.26895	1030	1249	95.44997		99.5			99.2
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1185	1269	68.26895	1163	1318	95.44997		95.6			98.9
Prior M9e	775	940	68.26895	709	976	95.44997	781	959	68.26895	710	1075	95.44997		98.5			98.9
Prior M10e	- 1255	-1060	68.26895	-1267	-1019	95.44997	-1211	-1053	68.26895	-1281	-909	95.44997		99.2			98.4
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1186	1273	68.26895	1165	1314	95.44997		94			99
Prior M12e	262	407	68.26895	250	420	95.44997	266	425	68.26895	248	552	95.44997		100.6			98.8
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1180	1256	68.26895	1055	1320	95.44997		102			99.1
Prior M14e	775	945	68.26895	774	976	95.44997	781	974	68.26895	711	1081	95.44997		98.7			98.9
Prior M15e	776	976	68.26895	775	992	95.44997	843	997	68.26895	776	1089	95.44997		101.3			98.9
Prior M16e	440	592	68.26895	433	601	95.44997	447	607	68.26895	426	725	95.44997		101.4			98.8
Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1056	1228	68.26895	1043	1271	95.44997		101			99.2
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1058	1175	68.26895	1031	1253	95.44997		99.4			99.2
Prior M19e	683	824	68.26895	673	878	95.44997	695	878	68.26895	669	969	95.44997		97.7			98.9
Prior M20e	129	213	68.26895	79	244	95.44997	136	238	68.26895	68	396	95.44997		100.2			98.8
Boundary TS1 M1e Tau and Char R2							1232	1311	68.26895	1208	1393	95.44997					98.1

1.37.4 - Dataset M1e; Run 3; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1e R3 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.6 Aoverall 98.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-73	1	68.26895	-411	1	95.44997					91.9
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	0.189	2.529	68.26895	3.60E-17	2.532	95.44997		100			42.5
Sequence																	
Tau_Boundary Model M1e							662	991	68.26895	495	1159	95.44997					73.5
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	670	839	68.26895	658	1245	95.44997		99.1			86
Prior M2e	708	878	68.26895	680	889	95.44997	711	949	68.26895	685	1251	95.44997		100.8			84.6
Prior M3e	898	1019	68.26895	892	1023	95.44997	901	1059	68.26895	892	1296	95.44997		100.5			84.6
Prior M4e	657	772	68.26895	650	774	95.44997	659	818	68.26895	649	1247	95.44997		99.6			84.5
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1236	1319	68.26895	1225	1376	95.44997		93.2			85.6
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1064	1218	68.26895	1036	1330	95.44997		99.6			87
Prior M7e	250	363	68.26895	243	403	95.44997	252	435	68.26895	233	1018	95.44997		99.3			86.5
Prior M8e	-43	60	68.26895	-92	119	95.44997	-43	144	68.26895	-105	821	95.44997		99			86.2

Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1064	1218	68.26895	1036	1329	95.44997		99.6			87.9
Prior M10e	553	634	68.26895	444	648	95.44997	548	701	68.26895	445	1190	95.44998		100.5			84.1
Prior M11e	538	603	68.26895	435	640	95.44997	482	697	68.26895	434	1140	95.44997		101.8			85.6
Prior M12e	775	888	68.26895	706	974	95.44997	782	975	68.26895	711	1283	95.44997		99.1			84.2
Prior M13e	706	877	68.26895	679	887	95.44997	708	941	68.26895	681	1234	95.44997		100.4			84
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-337	15	68.26895	-352	631	95.44997		100.9			87.3
Prior M15e	892	989	68.26895	775	1018	95.44997	890	1050	68.26895	778	1310	95.44997		101			82.5
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1222	1298	68.26895	1177	1368	95.44997		98.8			88.2
Prior M17e	775	887	68.26895	706	973	95.44997	781	972	68.26895	710	1283	95.44997		99.4			83.3
Prior M18e	775	885	68.26895	705	973	95.44997	781	974	68.26895	709	1295	95.44997		99.7			84.2
Prior M19e	898	1019	68.26895	892	1023	95.44997	902	1059	68.26895	891	1293	95.44997		100.4			84.4
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1160	1283	68.26895	1053	1344	95.44997		101.2			87.4
Last M1e R3 TandC							1246	1331	68.26895	1228	1411	95.44997					79.8
Boundary TS1 M1e Tau and Char R3							1272	1363	68.26895	1238	1446	95.44997					85.5

1.37.5 - Dataset M1e; Run 4; Exponential Prior/Default Charcoal Outlier; Table of Distributions

Name: TS1 M1e R4 Tau and Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.6 Aoverall 97.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-25	1	68.26895	-171	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	0.033	1.992	68.26895	3.60E-17	2.151	95.44997		100			88.4
Sequence																	
Tau_Boundary Model M1e							301	678	68.26895	19	810	95.44997					97
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1888	-1743	68.26895	-1951	-1596	95.44997		100.7			98.1
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-787	-545	68.26895	-800	-424	95.44997		97.4			97.9
Prior M3e	775	974	68.26895	774	990	95.44997	839	991	68.26895	775	1101	95.44997		100.2			98.4
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1053	1170	68.26895	1029	1250	95.44997		101.1			98.9
Prior M5e	25	124	68.26895	-34	204	95.44997	29	167	68.26895	-37	314	95.44997		99.5			98.1
Prior M6e	990	1038	68.26895	898	1152	95.44997	992	1126	68.26895	901	1215	95.44997		99.2			98.6
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1034	1165	68.26895	999	1247	95.44997		100.5			98.9
Prior M8e	677	774	68.26895	664	875	95.44997	686	828	68.26895	664	962	95.44997		98.1			98.4
Prior M9e	440	590	68.26895	433	600	95.44997	447	608	68.26895	425	743	95.44997		100.8			98

Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1167	1252	68.26895	1052	1327	95.44997		86.2			98.2
Prior M11e	774	878	68.26895	683	942	95.44997	720	902	68.26895	685	1030	95.44997		100.5			98.5
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1049	1168	68.26895	1027	1248	95.44997		101			98.8
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1059	1173	68.26895	1032	1252	95.44997		101.3			98.8
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1032	1164	68.26895	997	1241	95.44997		100.4			98.7
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1255	-1108	68.26895	-1375	-937	95.44997		100.1			97.9
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-157	-34	68.26895	-339	140	95.44997		100.5			98.4
Prior M17e	894	992	68.26895	776	1021	95.44997	899	1001	68.26895	778	1146	95.44997		100.3			98.5
Prior M18e	235	332	68.26895	209	379	95.44997	238	361	68.26895	174	549	95.44997		100			98.1
Prior M19e	979	1033	68.26895	895	1148	95.44997	979	1118	68.26895	900	1188	95.44997		100			98.4
Prior M20e	607	664	68.26895	595	771	95.44997	610	682	68.26895	589	858	95.44997		100			98.1
Last M1e R4 TandC							1167	1255	68.26895	1116	1342	95.44997					98.2
Boundary TS1 M1e Tau and Char R4							1184	1303	68.26895	1140	1419	95.44997					97.7

1.38.1 - Dataset M1e; Uniform Prior/No Outlier; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Sequence()
  {
    Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e", "M1e.prior"));
      Date(Prior("M2e", "M2e.prior"));
      Date(Prior("M3e", "M3e.prior"));
      Date(Prior("M4e", "M4e.prior"));
      Date(Prior("M5e", "M5e.prior"));
      Date(Prior("M6e", "M6e.prior"));
      Date(Prior("M7e", "M7e.prior"));
      Date(Prior("M8e", "M8e.prior"));
      Date(Prior("M9e", "M9e.prior"));
      Date(Prior("M10e", "M10e.prior"));
      Date(Prior("M11e", "M11e.prior"));
      Date(Prior("M12e", "M12e.prior"));
      Date(Prior("M13e", "M13e.prior"));
      Date(Prior("M14e", "M14e.prior"));
      Date(Prior("M15e", "M15e.prior"));
      Date(Prior("M16e", "M16e.prior"));
      Date(Prior("M17e", "M17e.prior"));
      Date(Prior("M18e", "M18e.prior"));
      Date(Prior("M19e", "M19e.prior"));
      Date(Prior("M20e", "M20e.prior"));
    };
    Boundary("TS1 M1e Uniform R1");
  };
};
```

};

1.38.2 - Dataset M1e; Run 1; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1e R1 Uniform	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
Sequence																	
Boundary Model M1e							-2290	-2051	68.26895	-2586	-1980	95.44997					96.6
Phase																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1214	1267	68.26895	1168	1273	95.44997		98.8			99.7
Prior M2e	889	977	68.26895	775	994	95.44997	889	977	68.26895	775	994	95.44997		100			99.7
Prior M3e	652	772	68.26895	644	774	95.44997	652	772	68.26895	644	774	95.44997		99.9			99.7
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1044	1161	68.26895	1031	1209	95.44997		100			99.8
Prior M5e	404	534	68.26895	265	541	95.44997	404	534	68.26895	265	541	95.44997		99.9			99.7
Prior M6e	979	1031	68.26895	894	1145	95.44997	979	1031	68.26895	894	1146	95.44997		99.8			99.7
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1049	1214	68.26895	1040	1218	95.44997		100			99.8
Prior M8e	601	646	68.26895	570	655	95.44997	601	646	68.26895	570	655	95.44997		100.1			99.8
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1023	1151	68.26895	995	1158	95.44997		99.9			99.7
Prior M10e	24	121	68.26895	-40	203	95.44997	24	120	68.26895	-40	203	95.44997		100			99.6
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-151	-51	68.26895	-339	5	95.44997		100			99.5

Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1218	1266	68.26895	1170	1276	95.44997		98.6			99.7
Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-366	-208	68.26895	-389	-197	95.44997		99.9			99.6
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2142	-1986	68.26895	-2200	-1976	95.44997		99.6			99.7
Prior M15e	900	1023	68.26895	892	1030	95.44997	900	1023	68.26895	892	1030	95.44997		100			99.7
Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1047	1206	68.26895	1039	1216	95.44997		100			99.8
Prior M17e	895	993	68.26895	777	1021	95.44997	894	993	68.26895	777	1021	95.44997		100			99.6
Prior M18e	264	428	68.26895	258	535	95.44997	265	428	68.26895	258	535	95.44997		99.9			99.6
Prior M19e	436	572	68.26895	430	592	95.44997	437	572	68.26895	430	592	95.44997		100			99.7
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1045	1199	68.26895	1036	1213	95.44997		100			99.7
Boundary TS1 M1e Uniform R1							1234	1430	68.26895	1206	1737	95.44997					96.5

1.38.3 - Dataset M1e; Run 2; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1e R2 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 96.9 Aoverall 96.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1e							-1289	-1077	68.26895	-1499	-1019	95.44997					96.9

Phase																	
Prior M1e	653	772	68.26895	645	774	95.44997	653	772	68.26895	645	774	95.44997		99.9			99.7
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1053	1220	68.26895	1043	1257	95.44997		100.3			99.8
Prior M3e	777	977	68.26895	775	993	95.44997	886	977	68.26895	775	993	95.44997		99.9			99.7
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1040	1156	68.26895	1026	1201	95.44997		100			99.8
Prior M5e	891	977	68.26895	775	1013	95.44997	891	977	68.26895	775	1013	95.44997		100			99.7
Prior M6e	123	209	68.26895	70	236	95.44997	123	209	68.26895	70	236	95.44997		100			99.6
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1042	1158	68.26895	1028	1203	95.44997		100			99.8
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1181	1264	68.26895	1166	1271	95.44997		99.1			99.7
Prior M9e	775	940	68.26895	709	976	95.44997	775	940	68.26895	709	976	95.44997		99.9			99.7
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997	-1181	-1021	68.26895	-1254	-1012	95.44997		88.4			99.6
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1215	1266	68.26895	1168	1273	95.44997		98.8			99.7
Prior M12e	262	407	68.26895	250	420	95.44997	262	407	68.26895	250	419	95.44997		100			99.7
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1168	1254	68.26895	1053	1270	95.44997		100.5			99.8
Prior M14e	775	945	68.26895	774	976	95.44997	775	945	68.26895	774	976	95.44997		99.8			99.7
Prior M15e	776	976	68.26895	775	992	95.44997	776	976	68.26895	775	992	95.44997		99.9			99.7
Prior M16e	440	592	68.26895	433	601	95.44997	440	592	68.26895	433	601	95.44997		100			99.8
Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1050	1216	68.26895	1041	1220	95.44997		100			99.7
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1044	1158	68.26895	1029	1204	95.44997		100			99.8
Prior M19e	683	824	68.26895	673	878	95.44997	683	824	68.26895	673	878	95.44997		99.8			99.7
Prior M20e	129	213	68.26895	79	244	95.44997	128	213	68.26895	79	244	95.44997		100			99.7
Boundary TS1 M1e Uniform R2							1236	1377	68.26895	1209	1604	95.44997					96.8

1.38.4 - Dataset M1e; Run 3; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1e R3 Uniform	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98 Aoverall 98.1				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1e							-207	-65	68.26895	-368	-32	95.44997					96.1
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	670	773	68.26895	657	821	95.44997		100			99.4
Prior M2e	708	878	68.26895	680	889	95.44997	708	878	68.26895	680	889	95.44997		99.9			99.5
Prior M3e	898	1019	68.26895	892	1023	95.44997	898	1019	68.26895	892	1023	95.44997		100			99.3
Prior M4e	657	772	68.26895	650	774	95.44997	657	772	68.26895	650	774	95.44997		100			99.5
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1264	1297	68.26895	1223	1302	95.44997		98.9			99.7
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1043	1161	68.26895	1031	1209	95.44997		99.9			99.5
Prior M7e	250	363	68.26895	243	403	95.44997	250	363	68.26895	243	403	95.44997		100			99.4
Prior M8e	-43	60	68.26895	-92	119	95.44997	-42	60	68.26895	-89	119	95.44997		100.7			99.3
Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1044	1162	68.26895	1032	1210	95.44997		100			99.6
Prior M10e	553	634	68.26895	444	648	95.44997	553	635	68.26895	444	648	95.44997		100.1			99.6
Prior M11e	538	603	68.26895	435	640	95.44997	486	603	68.26895	435	640	95.44997		99.9			99.6
Prior M12e	775	888	68.26895	706	974	95.44997	775	888	68.26895	706	974	95.44997		100			99.4
Prior M13e	706	877	68.26895	679	887	95.44997	706	877	68.26895	679	887	95.44997		99.8			99.5
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-139	-49	68.26895	-199	-1	95.44997		92.7			99.2

Prior M15e	892	989	68.26895	775	1018	95.44997	892	989	68.26895	775	1018	95.44997		100			99.4
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1221	1265	68.26895	1176	1277	95.44997		99.8			99.6
Prior M17e	775	887	68.26895	706	973	95.44997	775	887	68.26895	706	973	95.44998		100			99.4
Prior M18e	775	885	68.26895	705	973	95.44997	775	885	68.26895	705	972	95.44997		99.9			99.5
Prior M19e	898	1019	68.26895	892	1023	95.44997	898	1019	68.26895	892	1023	95.44997		99.9			99.3
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1053	1221	68.26895	1046	1261	95.44997		100.1			99.5
Last M1e R3 Uniform							1264	1295	68.26895	1227	1303	95.44997					99.7
Boundary TS1 M1e Uniform R3							1266	1369	68.26895	1233	1495	95.44997					96.8

1.38.5 - Dataset M1e; Run 4; Uniform Prior/No Outlier; Table of Distributions

Name: TS1 M1e R4 Uniform	Unmo delled (BC/A D)						Modelled (BC/AD)						Indices Amodel 98.8 Aoverall 99				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Sequence																	
Boundary Model M1e							-1997	-1781	68.26895	-2276	-1707	95.44997					95.6
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1881	-1748	68.26895	-1923	-1698	95.44997		100.1			99.6
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-793	-572	68.26895	-802	-545	95.44997		99.9			99.6
Prior M3e	775	974	68.26895	774	990	95.44997	775	974	68.26895	774	990	95.44997		99.9			99.7

Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1040	1156	68.26895	1026	1201	95.44997		100.3			99.8
Prior M5e	25	124	68.26895	-34	204	95.44997	25	124	68.26895	-34	204	95.44997		99.9			99.6
Prior M6e	990	1038	68.26895	898	1152	95.44997	990	1038	68.26895	898	1152	95.44997		99.9			99.6
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1028	1151	68.26895	996	1161	95.44997		100			99.7
Prior M8e	677	774	68.26895	664	875	95.44997	677	774	68.26895	664	875	95.44997		99.9			99.6
Prior M9e	440	590	68.26895	433	600	95.44997	440	590	68.26895	433	600	95.44997		100			99.7
Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1167	1253	68.26895	1053	1271	95.44997		95.3			99.7
Prior M11e	774	878	68.26895	683	942	95.44997	774	878	68.26895	683	942	95.44997		99.9			99.7
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1037	1155	68.26895	1025	1199	95.44997		100.3			99.7
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1043	1159	68.26895	1030	1205	95.44997		100.4			99.8
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1027	1151	68.26895	996	1160	95.44997		100			99.7
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1260	-1126	68.26895	-1374	-1054	95.44997		100			99.5
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-151	-51	68.26895	-339	4	95.44997		99.9			99.6
Prior M17e	894	992	68.26895	776	1021	95.44997	894	992	68.26895	776	1021	95.44997		100			99.6
Prior M18e	235	332	68.26895	209	379	95.44997	236	331	68.26895	208	379	95.44997		100			99.7
Prior M19e	979	1033	68.26895	895	1148	95.44997	979	1033	68.26895	895	1148	95.44997		99.9			99.7
Prior M20e	607	664	68.26895	595	771	95.44997	607	664	68.26895	595	771	95.44997		100			99.7
Last M1e R4 Uniform							1174	1253	68.26895	1153	1270	95.44997					99.8
Boundary TS1 M1e Uniform R4							1187	1382	68.26895	1150	1665	95.44997					96.2

1.39.1 - Dataset M1e; Uniform Prior/500-Year Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,2.7),"t");
  Sequence()
  {
    Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e","M1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2e","M2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3e","M3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4e","M4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5e","M5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6e","M6e.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7e","M7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8e","M8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9e","M9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10e","M10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11e","M11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12e","M12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13e","M13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14e","M14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15e","M15e.prior"))
{

```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M16e", "M16e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17e", "M17e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18e", "M18e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19e", "M19e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20e", "M20e.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1e Mod Char R1");
};
};

```

1.39.2 - Dataset M1e; Run 1; Uniform Prior /500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R1 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)							Indices Amodel 99.6 Aoverall 99.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C	
Outlier_Model Charcoal							-73	1	68.26895	-364	1	95.44997					52.2	
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.8	
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	4.34E-19	2.4948	68.26895	4.34E-19	2.5029	95.44997		100			40	
Sequence																		
Boundary Model M1e							-2421	-668	68.26895	-2685	...	95.44997					29.1	
Phase																		
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1185	1309	68.26895	1165	1469	95.44997		98.9			68.3	
Prior M2e	889	977	68.26895	775	994	95.44997	885	1045	68.26895	777	1276	95.44997		99.9			74.3	
Prior M3e	652	772	68.26895	644	774	95.44997	654	795	68.26895	643	1067	95.44997		99.7			65.3	
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1053	1209	68.26895	1031	1399	95.44997		100.3			77.3	
Prior M5e	404	534	68.26895	265	541	95.44997	395	573	68.26895	266	829	95.44997		100			75.2	
Prior M6e	979	1031	68.26895	894	1145	95.44997	909	1127	68.26895	897	1353	95.44997		100			64.1	
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1055	1233	68.26895	1037	1428	95.44997		100			76.5	
Prior M8e	601	646	68.26895	570	655	95.44997	587	696	68.26895	568	867	95.44997		99.8			65.3	
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1026	1178	68.26895	996	1368	95.44997		99.9			74.4	
Prior M10e	24	121	68.26895	-40	203	95.44997	21	204	68.26895	-40	478	95.44997		100			74.2	
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-162	7	68.26895	-338	299	95.44997		99.8			73.5	

Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1188	1321	68.26895	1166	1483	95.44997		98.9			67
Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-370	-166	68.26895	-390	114	95.44997		100			75.8
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2194	-603	68.26895	-2267	...	95.44997		100.3			31.1
Prior M15e	900	1023	68.26895	892	1030	95.44997	902	1068	68.26895	892	1344	95.44997		99.8			70.1
Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1056	1224	68.26895	1035	1418	95.44997		100.2			77.4
Prior M17e	895	993	68.26895	777	1021	95.44997	896	1040	68.26895	778	1327	95.44997		100.1			71.2
Prior M18e	264	428	68.26895	258	535	95.44997	269	541	68.26895	258	846	95.44997		100			71.9
Prior M19e	436	572	68.26895	430	592	95.44997	443	607	68.26895	424	862	95.44997		99.9			73.2
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1057	1218	68.26895	1034	1407	95.44997		100.3			76.7
Boundary TS1 M1e Mod Char R1							1263	1581	68.26895	1225	1865	95.44997					73.6

1.39.3 - Dataset M1e; Run 2; Uniform Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R2 mod Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 98.1 Aoverall 98				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-420	1	68.26895	-2427	1	95.44997					10.8
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.1
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	2.5218	2.7	68.26895	4.34E-19	2.7	95.44997		100			66.4
Sequence																	
Boundary Model M1e							788	1310	68.26895	-1437	1368	95.44997					20.5

Phase																	
Prior M1e	653	772	68.26895	645	774	95.44997	661	1370	68.26895	655	1400	95.44997		98.6			30.4
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1191	1341	68.26895	1062	1445	95.44997		99.3			65.1
Prior M3e	777	977	68.26895	775	993	95.44997	939	1358	68.26895	880	1429	95.44997		101.4			40.9
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1144	1337	68.26895	1042	1432	95.44997		100.5			53.9
Prior M5e	891	977	68.26895	775	1013	95.44997	949	1364	68.26895	888	1424	95.44997		101.2			39.9
Prior M6e	123	209	68.26895	70	236	95.44997	147	1376	68.26895	79	1471	95.44997		101			32.8
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1146	1337	68.26895	1047	1425	95.44997		100.5			55.7
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1228	1347	68.26895	1178	1484	95.44997		96.1			81.1
Prior M9e	775	940	68.26895	709	976	95.44997	862	1369	68.26895	781	1403	95.44997		98.9			41.5
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997	-1139	1386	68.26895	-1244	1501	95.44998		97.9			37.9
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1234	1348	68.26895	1182	1483	95.44997		95.6			82.6
Prior M12e	262	407	68.26895	250	420	95.44997	355	1375	68.26895	256	1447	95.44997		100.8			33
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1216	1345	68.26895	1161	1482	95.44997		99.6			75.7
Prior M14e	775	945	68.26895	774	976	95.44997	879	1369	68.26895	781	1404	95.44997		98.9			43.3
Prior M15e	776	976	68.26895	775	992	95.44997	936	1366	68.26895	841	1413	95.44997		101.1			41.1
Prior M16e	440	592	68.26895	433	601	95.44997	544	1377	68.26895	439	1434	95.44997		101.5			33.2
Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1175	1342	68.26895	1057	1440	95.44997		99.7			60.9
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1148	1336	68.26895	1045	1430	95.44997		100.5			54.8
Prior M19e	683	824	68.26895	673	878	95.44997	720	1375	68.26895	699	1398	95.44997		97.7			41.5
Prior M20e	129	213	68.26895	79	244	95.44997	138	1376	68.26895	87	1465	95.44997		100.2			31.9
Boundary TS1 M1e Mod Char R2							1272	1460	68.26895	1242	1684	95.44997					53

1.39.4 - Dataset M1e; Run 3; Uniform Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R3 mod Char	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							-288	1	68.26895	-1050	1	95.44997					21.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.6
U(0,2.7)	1.43E-17	2.7	68.26895	1.43E-17	2.7	95.44997	2.187	2.7	68.26895	4.34E-19	2.7	95.44997		100			32.9
Sequence																	
Boundary Model M1e							-212	1130	68.26895	-349	...	95.44998					37.9
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	675	1141	68.26895	666	1330	95.44997		99.3			42
Prior M2e	708	878	68.26895	680	889	95.44997	787	1157	68.26895	705	1346	95.44997		100.6			53.2
Prior M3e	898	1019	68.26895	892	1023	95.44997	911	1188	68.26895	895	1379	95.44997		99.9			62.1
Prior M4e	657	772	68.26895	650	774	95.44997	662	1097	68.26895	655	1321	95.44997		99.6			41.6
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1270	1365	68.26895	1231	1463	95.44997		100.8			82.3
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1084	1289	68.26895	1040	1410	95.44997		101.1			82.1
Prior M7e	250	363	68.26895	243	403	95.44997	253	1234	68.26895	243	1377	95.44997		99			38.9
Prior M8e	-43	60	68.26895	-92	119	95.44997	-40	1253	68.26895	-87	1418	95.44997		98.5			39.5
Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1081	1294	68.26895	1041	1409	95.44997		101.2			85.8
Prior M10e	553	634	68.26895	444	648	95.44997	551	1209	68.26895	545	1342	95.44997		100.6			29.8

Prior M11e	538	603	68.26895	435	640	95.44997	541	1247	68.26895	445	1348	95.44997		101.6			35.2
Prior M12e	775	888	68.26895	706	974	95.44997	808	1140	68.26895	776	1364	95.44997		100.1			56.2
Prior M13e	706	877	68.26895	679	887	95.44997	720	1159	68.26895	694	1348	95.44997		100.5			52.8
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-165	1291	68.26895	-202	1420	95.44997		99.8			41.1
Prior M15e	892	989	68.26895	775	1018	95.44997	901	1169	68.26895	877	1402	95.44997		100.3			60.5
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1231	1344	68.26895	1183	1449	95.44997		97.5			82.6
Prior M17e	775	887	68.26895	706	973	95.44997	801	1146	68.26895	775	1370	95.44997		100.2			55.9
Prior M18e	775	885	68.26895	705	973	95.44997	789	1141	68.26895	775	1367	95.44997		100.2			55.6
Prior M19e	898	1019	68.26895	892	1023	95.44997	912	1187	68.26895	896	1377	95.44997		100			63.8
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1166	1335	68.26895	1056	1423	95.44997		97.8			85.9
Last M1e R3 modChar							1273	1403	68.26895	1239	1534	95.44997					74.2
Boundary TS1 M1e Mod Char R3							1302	1452	68.26895	1265	1603	95.44997					91.5

1.39.5 - Dataset M1e; Run 4; Uniform Prior/500-Year Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R4 mod 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							-38	1	68.26895	-271	1	95.44997					98.4
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	2.3679	68.26895	4.34E-19	2.403	95.44997		100			68.1
Sequence																	
Boundary Model M1e							-2145	-1724	68.26895	-2365	-706	95.44997					86.4
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1895	-1693	68.26895	-1946	-634	95.44997		101.1			93.2
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-788	-545	68.26895	-802	-373	95.44997		99.9			95.6
Prior M3e	775	974	68.26895	774	990	95.44997	784	991	68.26895	775	1158	95.44997		99.9			96.5
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1048	1174	68.26895	1027	1317	95.44997		100.3			96.6
Prior M5e	25	124	68.26895	-34	204	95.44997	27	199	68.26895	-37	357	95.44997		100			96.5
Prior M6e	990	1038	68.26895	898	1152	95.44997	992	1128	68.26895	900	1274	95.44997		100.2			95.6
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1032	1167	68.26895	997	1315	95.44997		100			95.9
Prior M8e	677	774	68.26895	664	875	95.44997	684	828	68.26895	664	1003	95.44997		100			96.3
Prior M9e	440	590	68.26895	433	600	95.44997	446	610	68.26895	426	794	95.44997		99.9			96.1
Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1178	1274	68.26895	1054	1434	95.44997		97.4			96
Prior M11e	774	878	68.26895	683	942	95.44997	717	907	68.26895	683	1079	95.44997		99.9			96.1
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1046	1170	68.26895	1025	1327	95.44997		100.2			96.4
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1051	1180	68.26895	1029	1327	95.44997		100.4			96.5
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1030	1167	68.26895	997	1304	95.44997		100			96.6
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1262	-1087	68.26895	-1378	-685	95.44997		99.9			95.6
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-162	-3	68.26895	-340	208	95.44997		100			96.1
Prior M17e	894	992	68.26895	776	1021	95.44997	899	1013	68.26895	778	1197	95.44997		99.9			95.9

Prior M18e	235	332	68.26895	209	379	95.44997	237	365	68.26895	163	616	95.44997		100			96.2
Prior M19e	979	1033	68.26895	895	1148	95.44997	979	1122	68.26895	897	1265	95.44997		100			95.9
Prior M20e	607	664	68.26895	595	771	95.44997	608	692	68.26895	589	895	95.44997		100.1			95.7
Last M1e R4 modChar							1172	1282	68.26895	1146	1490	95.44997					93.1
Boundary TS1 M1e Mod Char R4							1216	1495	68.26895	1172	1794	95.44997					93.9

1.40.1 - Dataset M1e; Uniform Prior/Default Charcoal; Model Script

```
Options()
{
  Resolution=1 year;
};
Plot()
{
  Outlier_Model("Charcoal",Exp(1,-10,0),U(0,3),"t");
  Sequence()
  {
    Boundary("Model M1e");
    Phase()
    {
      Date(Prior("M1e","M1e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M2e","M2e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M3e","M3e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M4e","M4e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M5e","M5e.prior"))
      {
        Outlier("Charcoal", 1);
      };
      Date(Prior("M6e","M6e.prior"))
      {
```

```

    Outlier("Charcoal", 1);
};
Date(Prior("M7e","M7e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M8e","M8e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M9e","M9e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M10e","M10e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M11e","M11e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M12e","M12e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M13e","M13e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M14e","M14e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M15e","M15e.prior"))
{

```

```
    Outlier("Charcoal", 1);
};
Date(Prior("M16e", "M16e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M17e", "M17e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M18e", "M18e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M19e", "M19e.prior"))
{
    Outlier("Charcoal", 1);
};
Date(Prior("M20e", "M20e.prior"))
{
    Outlier("Charcoal", 1);
};
};
Boundary("TS1 M1e Char R1");
};
};
```

1.40.2 - Dataset M1e; Run 1; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R1 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.4 Aoverall 99.4				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-16	1	68.26895	-92	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	1.524	68.26895	3.60E-17	1.866	95.44997		100			98.5
Sequence																	
Boundary Model M1e							-2312	-2031	68.26895	-2677	-1896	95.44997					95.6
Phase																	
Prior M1e	1216	1267	68.26895	1168	1275	95.44997	1214	1279	68.26895	1166	1316	95.44997		98.7			99.5
Prior M2e	889	977	68.26895	775	994	95.44997	896	993	68.26895	777	1051	95.44997		99.9			99.5
Prior M3e	652	772	68.26895	644	774	95.44997	656	775	68.26895	644	831	95.44997		100			99.4
Prior M4e	1044	1161	68.26895	1031	1209	95.44997	1055	1168	68.26895	1033	1231	95.44997		100.1			99.5
Prior M5e	404	534	68.26895	265	541	95.44997	409	540	68.26895	266	595	95.44997		100			99.4
Prior M6e	979	1031	68.26895	894	1145	95.44997	979	1053	68.26895	899	1150	95.44997		100			99.4
Prior M7e	1049	1214	68.26895	1040	1219	95.44997	1054	1221	68.26895	1040	1254	95.44997		100			99.6
Prior M8e	601	646	68.26895	570	655	95.44997	600	657	68.26895	562	720	95.44997		99.9			99.5
Prior M9e	1023	1151	68.26895	995	1158	95.44997	1028	1158	68.26895	997	1198	95.44997		100			99.5

Prior M10e	24	121	68.26895	-40	203	95.44997	25	133	68.26895	-34	213	95.44997		100			99.5
Prior M11e	-151	-51	68.26895	-339	5	95.44997	-150	-41	68.26895	-337	43	95.44997		100			99.4
Prior M12e	1219	1266	68.26895	1168	1277	95.44997	1219	1279	68.26895	1168	1320	95.44997		98.6			99.5
Prior M13e	-366	-207	68.26895	-389	-198	95.44997	-362	-199	68.26895	-386	-157	95.44997		100			99.5
Prior M14e	-2194	-2037	68.26895	-2269	-1981	95.44997	-2138	-1981	68.26895	-2202	-1875	95.44997		100			98.8
Prior M15e	900	1023	68.26895	892	1030	95.44997	905	1035	68.26895	892	1094	95.44997		99.9			99.4
Prior M16e	1047	1207	68.26895	1039	1216	95.44997	1055	1214	68.26895	1037	1247	95.44997		100			99.5
Prior M17e	895	993	68.26895	777	1021	95.44997	902	998	68.26895	778	1081	95.44997		99.9			99.5
Prior M18e	264	428	68.26895	258	535	95.44997	267	526	68.26895	260	555	95.44997		99.9			99.4
Prior M19e	436	572	68.26895	430	592	95.44997	445	584	68.26895	427	636	95.44997		100			99.4
Prior M20e	1046	1199	68.26895	1036	1213	95.44997	1053	1202	68.26895	1035	1241	95.44997		100.1			99.7
Boundary TS1 M1e Char R1							1246	1469	68.26895	1218	1787	95.44997					96.4

1.40.3 - Dataset M1e; Run 2; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R2 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 97.5 Aoverall 97.6				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-79	1	68.26895	-331	1	95.44997					75.3
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	0.033	2.433	68.26895	3.60E-17	2.442	95.44997		100			26.8
Sequence																	
Boundary Model M1e							-1330	...	68.26895	-1571	...	95.44997					45.7
Phase																	
Prior M1e	653	772	68.26895	645	774	95.44997	655	799	68.26895	646	1034	95.44997		100			81
Prior M2e	1053	1220	68.26895	1044	1259	95.44997	1060	1290	68.26895	1050	1393	95.44997		99.3			85.2
Prior M3e	777	977	68.26895	775	993	95.44997	880	1060	68.26895	777	1259	95.44997		99.8			84.6
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1049	1203	68.26895	1030	1367	95.44997		100.3			84.9
Prior M5e	891	977	68.26895	775	1013	95.44997	889	1048	68.26895	777	1255	95.44997		99.8			83.1
Prior M6e	123	209	68.26895	70	236	95.44997	90	276	68.26895	64	530	95.44997		99.9			83.8
Prior M7e	1043	1157	68.26895	1028	1203	95.44997	1053	1207	68.26895	1033	1345	95.44997		100.4			86.3
Prior M8e	1182	1266	68.26895	1167	1273	95.44997	1187	1309	68.26895	1166	1421	95.44997		98.4			82.1
Prior M9e	775	940	68.26895	709	976	95.44997	782	978	68.26895	713	1228	95.44997		100.1			86.1
Prior M10e	-1255	-1060	68.26895	-1267	-1019	95.44997	-1213	65	68.26895	-1262	...	95.44997		93.2			42.9
Prior M11e	1217	1267	68.26895	1168	1275	95.44997	1209	1318	68.26895	1167	1429	95.44997		98.5			82
Prior M12e	262	407	68.26895	250	420	95.44997	263	466	68.26895	253	658	95.44997		99.9			83.2
Prior M13e	1168	1259	68.26895	1053	1271	95.44997	1176	1294	68.26895	1056	1443	95.44997		99.8			84.3
Prior M14e	775	945	68.26895	774	976	95.44997	781	987	68.26895	721	1244	95.44997		100			86.1
Prior M15e	776	976	68.26895	775	992	95.44997	837	1027	68.26895	776	1238	95.44997		99.7			84.8
Prior M16e	440	592	68.26895	433	601	95.44997	453	642	68.26895	433	813	95.44997		99.7			83.9
Prior M17e	1050	1216	68.26895	1040	1220	95.44997	1057	1250	68.26895	1042	1385	95.44997		99.8			86.3
Prior M18e	1043	1159	68.26895	1029	1207	95.44997	1055	1210	68.26895	1032	1363	95.44997		100.4			85.7
Prior M19e	683	824	68.26895	673	878	95.44997	696	885	68.26895	670	1136	95.44997		100			85.3

Prior M20e	129	213	68.26895	79	244	95.44997	126	283	68.26895	82	505	95.44997		100			82.4
Boundary TS1 M1e Char R2							1266	1483	68.26895	1231	1683	95.44997					82.5

1.40.4 - Dataset M1e; Run 3; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R3 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.5 Aoverall 99.5				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-291	1	68.26895	-1068	1	95.44997					20.7
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.7
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	2.166	2.742	68.26895	3.60E-17	2.76	95.44997		100			27.2
Sequence																	
Boundary Model M1e							-196	...	68.26895	-361	...	95.44997					22.2
Phase																	
Prior M1e	670	773	68.26895	657	820	95.44997	675	1112	68.26895	665	1338	95.44997		99.3			36.6
Prior M2e	708	878	68.26895	680	889	95.44997	788	1146	68.26895	705	1350	95.44997		100.6			45.2
Prior M3e	898	1019	68.26895	892	1023	95.44997	908	1183	68.26895	895	1375	95.44997		100			65.9
Prior M4e	657	772	68.26895	650	774	95.44997	660	1144	68.26895	655	1340	95.44997		99.6			34
Prior M5e	1265	1298	68.26895	1226	1381	95.44997	1268	1371	68.26895	1232	1472	95.44997		100.3			77
Prior M6e	1044	1161	68.26895	1031	1209	95.44997	1077	1287	68.26895	1039	1416	95.44997		101.1			82.6

Prior M7e	250	363	68.26895	243	403	95.44997	253	1250	68.26895	242	1397	95.44998		99.1			25.4
Prior M8e	-43	60	68.26895	-92	119	95.44997	-40	1269	68.26895	-88	1426	95.44997		98.6			26.2
Prior M9e	1044	1162	68.26895	1032	1210	95.44997	1084	1286	68.26895	1040	1411	95.44997		101.1			83.4
Prior M10e	553	634	68.26895	444	648	95.44997	551	1209	68.26895	544	1355	95.44997		100.4			27.3
Prior M11e	538	603	68.26895	435	640	95.44997	541	1250	68.26895	445	1351	95.44997		101.7			26.2
Prior M12e	775	888	68.26895	706	974	95.44997	790	1141	68.26895	775	1375	95.44997		100.1			52.2
Prior M13e	706	877	68.26895	679	887	95.44997	720	1151	68.26895	693	1343	95.44997		100.4			46.1
Prior M14e	-338	-59	68.26895	-351	-48	95.44997	-171	1300	68.26895	-202	1430	95.44997		99.8			26.4
Prior M15e	892	989	68.26895	775	1018	95.44997	898	1168	68.26895	877	1400	95.44997		100.4			63.8
Prior M16e	1221	1265	68.26895	1176	1278	95.44997	1229	1346	68.26895	1181	1455	95.44997		97.2			80.4
Prior M17e	775	887	68.26895	706	973	95.44997	790	1146	68.26895	775	1377	95.44997		100.2			49.1
Prior M18e	775	885	68.26895	705	973	95.44997	789	1131	68.26895	721	1378	95.44997		100.2			50.7
Prior M19e	898	1019	68.26895	892	1023	95.44997	908	1193	68.26895	895	1376	95.44997		100			62.8
Prior M20e	1053	1221	68.26895	1046	1261	95.44997	1166	1337	68.26895	1056	1427	95.44997		97.6			81.2
Last M1e R3 Char							1271	1408	68.26895	1237	1531	95.44997					67.5
Boundary TS1 M1e Char R3							1300	1458	68.26895	1267	1605	95.44997					87.9

1.40.5 - Dataset M1e; Run 4; Uniform Prior/Default Charcoal Outlier Model; Table of Distributions

Name: TS1 M1e R4 Char	Unmodelled (BC/AD)						Modelled (BC/AD)						Indices Amodel 99.6 Aoverall 99.8				
	from	to	%	from	to	%	from	to	%	from	to	%	Acomb	A	L	P	C
Outlier_Model Charcoal							-84	1	68.26895	-807	1	95.44997					29
Exp(1,-10,0)	-1.24	-0.05	68.26895	-3.19	-0.05	95.44997											99.4
U(0,3)	2.21E-17	3	68.26895	2.21E-17	3	95.44997	3.60E-17	2.817	68.26895	3.60E-17	2.82	95.44997		100			9.5
Sequence																	
Boundary Model M1e							-2272	1185	68.26895	-2551	1191	95.44997					9.5
Phase																	
Prior M1e	-1895	-1771	68.26895	-1941	-1745	95.44997	-1937	1240	68.26895	-1960	1393	95.44997		101.2			14.2
Prior M2e	-793	-573	68.26895	-802	-545	95.44997	-792	-522	68.26895	-804	1378	95.44997		98.8			26.5
Prior M3e	775	974	68.26895	774	990	95.44997	778	1021	68.26895	775	1314	95.44997		99.8			52.5
Prior M4e	1040	1156	68.26895	1027	1201	95.44997	1046	1202	68.26895	1028	1396	95.44997		100.4			64.3
Prior M5e	25	124	68.26895	-34	204	95.44997	12	227	68.26895	-41	1352	95.44997		100			34.3
Prior M6e	990	1038	68.26895	898	1152	95.44997	992	1155	68.26895	900	1361	95.44997		100.5			44
Prior M7e	1029	1151	68.26895	996	1161	95.44997	1030	1184	68.26895	997	1400	95.44997		100.1			58.9
Prior M8e	677	774	68.26895	664	875	95.44997	678	877	68.26895	666	1273	95.44997		99.7			40.6
Prior M9e	440	590	68.26895	433	600	95.44997	441	640	68.26895	424	1296	95.44997		100			39.6
Prior M10e	1179	1261	68.26895	1159	1273	95.44997	1175	1294	68.26895	1054	1495	95.44997		97.3			69.5

Prior M11e	774	878	68.26895	683	942	95.44997	710	953	68.26895	687	1291	95.44997		100			48.1
Prior M12e	1038	1155	68.26895	1025	1199	95.44997	1041	1204	68.26895	1025	1393	95.44997		100.3			61
Prior M13e	1043	1160	68.26895	1030	1207	95.44997	1050	1206	68.26895	1029	1409	95.44997		100.6			63.7
Prior M14e	1027	1151	68.26895	996	1160	95.44997	1028	1186	68.26895	997	1391	95.44997		100			59.6
Prior M15e	-1260	-1126	68.26895	-1374	-1054	95.44997	-1364	-1006	68.26895	-1385	1395	95.44997		99.7			18.3
Prior M16e	-151	-51	68.26895	-339	5	95.44997	-173	43	68.26895	-343	1351	95.44997		100			31.2
Prior M17e	894	992	68.26895	776	1021	95.44997	891	1057	68.26895	777	1339	95.44997		100.2			45.4
Prior M18e	235	332	68.26895	209	379	95.44997	220	411	68.26895	164	1339	95.44997		99.9			36.7
Prior M19e	979	1033	68.26895	895	1148	95.44997	979	1151	68.26895	898	1364	95.44997		100.7			43.1
Prior M20e	607	664	68.26895	595	771	95.44997	603	774	68.26895	589	1290	95.44997		99.9			31.5
Last M1e R4 Char							1167	1346	68.26895	1141	1622	95.44997					39.2
Boundary TS1 M1e Char R4							1221	1538	68.26895	1176	1902	95.44997					80.4