

Supplementary Materials for
**Enhancing Radiocarbon Chronologies of Colonization:
Chronometric hygiene revisited**

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OxCal models

Model 1: Agreement Index (n = 335)

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{
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      R_Date("BST SFUICE-2 ", 1020, 40);
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      R_Date("DVD Beta-236723", 1120, 40);
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      R_Date("DVD Beta-288070", 980, 40);
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Boundary("");
};
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Model 2: General Outlier Model (n = 335)

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    Phase("")
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        Outlier("General", 0.05);
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      R_Date("DOR T-13780", 1070, 40)
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      R_Date("DVD Beta-236723", 1120, 40)
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};
R_Date("ERS AAR-4743b", 1120, 30)
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R_Date("FXG U-4328", 1030, 65)
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  Outlier("General", 0.05);
};
R_Date("GAT St-3604 ", 980, 100)
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};
R_Date("GDH", 1045, 20)
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  Outlier("General", 0.05);
};
R_Date("SVK Beta-146584", 1010, 40)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27394", 1210, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27395", 1105, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27399", 1060, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27400", 1075, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27401", 1100, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27402", 1095, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27403", 1015, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-27404", 1110, 30)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-28652", 1050, 35)
{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-28653", 1090, 35)

```

```

{
  Outlier("General", 0.05);
};
R_Date("SVK SUERC-28657", 1105, 35)
{
  Outlier("General", 0.05);
};
R_Date("VGM AAR-3962", 1225, 30)
{
  Outlier("General", 0.05);
};
R_Date("VGM AAR-4249", 1088, 20)
{
  Outlier("General", 0.05);
};
R_Date("VGM AAR-4249.1", 1089, 31)
{
  Outlier("General", 0.05);
};
R_Date("VGM AAR-4249.2", 1088, 27)
{
  Outlier("General", 0.05);
};
R_Date("VOG Beta-175496", 1220, 40)
{
  Outlier("General", 0.05);
};
R_Date("VOG Beta-302066", 1030, 30)
{
  Outlier("General", 0.05);
};
R_Date("VOG Beta-302067", 1130, 30)
{
  Outlier("General", 0.05);
};
R_Date("VOG Beta-330300", 1080, 30)
{
  Outlier("General", 0.05);
};
R_Date("VOG Beta-330301", 1120, 30)
{
  Outlier("General", 0.05);
};
R_Date("VSF", 1035, 35)
{
  Outlier("General", 0.05);
};
R_Date("VSF", 1220, 35)
{
  Outlier("General", 0.05);
};
R_Date("VSF SUERC-6741", 1060, 35)
{
  Outlier("General", 0.05);
};
R_Date("YDS Lu-2999", 1140, 50)
{
  Outlier("General", 0.05);
};
R_Date("YDS Lu-3000", 1150, 50)
{
  Outlier("General", 0.05);
};
R_Date("YNL SUERC-2017", 1175, 35)
{
  Outlier("General", 0.05);
};
R_Date("YNL SUERC-2661", 1200, 35)
{
  Outlier("General", 0.05);
};
R_Date("HJD U-2660 ", 1390, 60)
{
  Outlier("General", 0.05);
};
R_Date("HJD U-2661 ", 1340, 65)
{
  Outlier("General", 0.05);
};
R_Date("HJD U-2663 ", 1300, 60)

```

```

{
  Outlier("General", 0.05);
};
R_Date("HLM Beta-143635", 1450, 70)
{
  Outlier("General", 0.05);
};
R_Date("RKV-ADR Beta-346805", 1295, 25)
{
  Outlier("General", 0.05);
};
R_Date("RKV-AST AAR-7619", 1282, 35)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2672", 1345, 60)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2680", 1375, 70)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2719", 1360, 60)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2739", 1310, 70)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2740", 1280, 65)
{
  Outlier("General", 0.05);
};
R_Date("RKV-SGT U-2741", 1330, 40)
{
  Outlier("General", 0.05);
};
R_Date("UTS SUERC-60008 ", 999, 29)
{
  Outlier("General", 0.05);
};
R_Date("SSL 2", 1170, 25)
{
  Outlier("General", 0.05);
};
R_Date("SVK Beta-28657", 1105, 35)
{
  Outlier("General", 0.05);
};
R_date("ODO SUERC-27393 ",955,30)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-164",915,40)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-267",875,45)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-6680",895,40)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-6683",880,40)
{
  Outlier("General",0.05);
};
R_date("SBO AA-52498 ",875,40)
{
  Outlier("General",0.05);
};
R_date("SBO AA-52499 ",870,40)
{
  Outlier("General",0.05);
};
R_date("SDM GU-14455",920,35)

```

```

{
  Outlier("General",0.05);
};
R_date("SKT SUERC-54612",899,30)
{
  Outlier("General",0.05);
};
R_date("SLH AA-49630",960,45)
{
  Outlier("General",0.05);
};
R_date("SVK AA-52496",920,40)
{
  Outlier("General",0.05);
};
R_date("SVK Beta-154783",930,40)
{
  Outlier("General",0.05);
};
R_date("SVK Beta-154785",930,40)
{
  Outlier("General",0.05);
};
R_date("UTS SUERC-60012 ",942,29)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-163",930,65)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-8208",950,35)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-8382",880,35)
{
  Outlier("General",0.05);
};
R_date("RKH SUERC-8383",925,35)
{
  Outlier("General",0.05);
};
R_date("DVD Beta-288069",930,40)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8249",925,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8343",890,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8346",945,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8350",895,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8351",935,35)
{
  Outlier("General",0.05);
};
R_date("HRB-EH OS 37964",955,30)
{
  Outlier("General",0.05);
};
R_date("LNG-AS1 SUERC-2380",960,35)
{
  Outlier("General",0.05);
};
R_date("LNG-REU23 SUERC-2375",935,35)
{
  Outlier("General",0.05);
};
R_date("LNG-REU23 SUERC-8212",960,35)

```

```

{
  Outlier("General",0.05);
};
R_date("LNG-REU23 SUERC-8216",940,35)
{
  Outlier("General",0.05);
};
R_date("RKH Beta-147804",940,70)
{
  Outlier("General",0.05);
};
R_date("AHV St-8348",925,80)
{
  Outlier("General", 0.05);
};
R_date("BDH S-66",920,60)
{
  Outlier("General", 0.05);
};
R_date("DOR Beta-125007",940,50)
{
  Outlier("General", 0.05);
};
R_date("HLS Beta 34358",950,60)
{
  Outlier("General", 0.05);
};
R_date("HLS Beta 34361",930,90)
{
  Outlier("General", 0.05);
};
R_date("STG K-4490",860,50)
{
  Outlier("General", 0.05);
};
R_date("STG K-4491 ",950,65)
{
  Outlier("General", 0.05);
};
R_date("STG K-4492 ",930,65)
{
  Outlier("General", 0.05);
};
R_date("AHV Brim-1128",940,60)
{
  Outlier("General", 0.05);
};
R_date("DVD Beta-257295",880,40)
{
  Outlier("General", 0.05);
};
R_date("DVD Beta-257296",940,40)
{
  Outlier("General", 0.05);
};
R_date("DVD Beta-288071",890,40)
{
  Outlier("General", 0.05);
};
R_date("GAT St-3605",935,100)
{
  Outlier("General", 0.05);
};
R_date("HDK St-4572",900,100)
{
  Outlier("General", 0.05);
};
R_date("HLS Beta 34360",880,80)
{
  Outlier("General", 0.05);
};
R_date("HOT St-5292",855,100)
{
  Outlier("General", 0.05);
};
R_date("HRT St-4396",955,100)
{
  Outlier("General", 0.05);
};
R_date("HTH K-1244 ",890,100)

```

```

{
  Outlier("General", 0.05);
};
R_date("HTH K-1245 ",910,100)
{
  Outlier("General", 0.05);
};
R_date("KVS HAR-2092",900,70)
{
  Outlier("General", 0.05);
};
R_date("RKH ARR-10752",933,34)
{
  Outlier("General", 0.05);
};
R_date("RKH SUERC-57017",932,29)
{
  Outlier("General", 0.05);
};
R_date("RKV-ADR Beta-339967",950,30)
{
  Outlier("General", 0.05);
};
R_date("RKV-ADR Beta-346804",885,25)
{
  Outlier("General", 0.05);
};
R_date("RKV-AST U-2593",960,90)
{
  Outlier("General", 0.05);
};
};
Boundary("");
};
};

```

Model 3: General Charcoal Plus Outlier Model (n = 335)

```

Plot()
{
  Outlier_Model("General", T(5), U(0,4), "t");
  Prior("charcoal_plus", "charcoal_plus.prior");
  Outlier_Model("Charcoal_Plus", Prior("charcoal_plus"), U(0,3), "t");
  Sequence()
  {
    Boundary("Iceland");
    Phase()
    {
      R_date("BDH K-580",1010,100)
      {
        Outlier("Charcoal Plus", 1.0);
      };
      R_date("BST SFUICE-1 ",1020,30)
      {
        Outlier("General",0.05);
      };
      R_date("BST SFUICE-2 ",1020,40)
      {
        Outlier("General",0.05);
      };
      R_date("BST SFUICE-3 ",1080,30)
      {
        Outlier("General",0.05);
      };
      R_date("BVD ARR-5905",1080,30)
      {
        Outlier("General",0.05);
      };
      R_date("DOR T-13780",1070,40)
      {
        Outlier("Charcoal Plus", 1.0);
      };
      R_date("DVD Beta-236723",1120,40)
      {
        Outlier("Charcoal Plus", 1.0);
      };
    }
  }
};

```

```

R_date("DVD Beta-236724",1130,40)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("DVD Beta-288070",980,40)
{
  Outlier("General",0.05);
};
R_date("ERS AAR-3963",1115,37)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("ERS AAR-4743a",1150,30)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("ERS AAR-4743b",1120,30)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("FOS Beta-288068",1030,40)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("FXG U-4328",1030,65)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GAT St-3604 ",980,100)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GDH UCIAMS-49330",1045,20)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GEI 1",980,60)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GEI 2",1040,45)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GEI 3",1060,40)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GFG AA-55486",982,45)
{
  Outlier("General",0.05);
};
R_date("GLH Beta-236719",980,40)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GLT U-2899 ",1015,70)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GLT U-2900",1070,65)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GLT U-299",1190,100)
{
  Outlier("Charcoal Plus", 1.0);
};
R_date("GMB SUERC-2029",1185,35)
{
  Outlier("General",0.05);
};
R_date("GMB SUERC-2670",1115,35)
{
  Outlier("General",0.05);
};
R_date("GMBL AA-46688",990,46)
{
  Outlier("Charcoal Plus", 1.0);
};
};

```

```

R_date("GMBL AA-46689",1017,56)
{
  Outlier("General",0.05);
};
R_date("GMBL AA-55489",969,43)
{
  Outlier("General",0.05);
};
R_date("GRA KI-2854",1070,50)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-2855",1032,80)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-2856",1110,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-3235",1170,90)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-3236",1100,50)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRS SUERC-2019",1145,35)
{
  Outlier("General",0.05);
};
R_date("GRS SUERC-2262",1105,35)
{
  Outlier("General",0.05);
};
R_date("GTL SUERC-2352",1170,40)
{
  Outlier("General",0.05);
};
R_date("GTL SUERC-2664",1175,35)
{
  Outlier("General",0.05);
};
R_date("HJD U-2529",1260,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2531 ",1060,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2533",1240,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2660 ",1390,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2661 ",1340,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2662",1240,50)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2663 ",1300,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-4402 ",1035,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-4403",1070,75)
{
  Outlier("Charcoal Plus",1.0);
};

R_date("HKD ARR-1252",1030,75)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HKD ARR-1253",1115,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-109905",1070,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-143634",1200,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-143635",1450,70)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM T 13781",1245,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLS Beta 34359",1190,90)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HOSK SUERC-8341",990,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8344",970,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8345",965,35)
{
  Outlier("General",0.05);
};
R_date("HOT St-5299",1040,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HRB-CK Beta 165332",1100,40)
{
  Outlier("General",0.05);
};
R_date("HRB-CK Beta 175675",1070,40)
{
  Outlier("General",0.05);
};
R_date("HRB-CK Beta-175676",1150,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HRB-EH OS-35415",1060,30)
{
  Outlier("General",0.05);
};
R_date("HRB-EH OS-37965",1060,30)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64168",1040,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64169",1055,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64170",1085,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64171",1125,20)
{
  Outlier("General",0.05);
};

```

```

R_date("HRB-TUN UCIAMS-64172",1140,15)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64173",1145,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64174",1080,25)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64175",1115,15)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49627 ",1150,35)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49628 ",1135,45)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49629 ",1135,45)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3439",1085,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3440 ",1150,40)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3441",1095,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3442",1120,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3445",1090,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3446",1080,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6431",1220,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6432",1200,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6433",1120,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6437",1120,35)
{
  Outlier("General",0.05);
};
R_date("HSB U-4014",1090,80)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HSS AA-55485",1158,44)
{
  Outlier("General",0.05);
};
R_date("HST AA-53125 ",1035,35)
{
  Outlier("Charcoal Plus",1.0);
};

R_date("HST AA-53126 ",1015,45)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HST Beta-124004",1170,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149403",1120,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149404",1130,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149405",1160,50)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11541 ",1030,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11542 ",1040,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11546 ",1075,35)
{
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};
R_date("HST SUERC-11547 ",1160,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3429",1160,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3430",1170,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3432",1040,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3433",1030,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3440",1150,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6392",1065,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6393",1120,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6397",1110,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6398",1035,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6399",1015,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8353 ",990,35)
{
  Outlier("General",0.05);
};

```

```

R_date("HST SUERC-8354 ",1035,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8356 ",1040,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8360 ",1050,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8618",1110,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8619",1110,30)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8623",1130,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8624 ",1080,35)
{
  Outlier("General",0.05);
};
R_date("HTH K-1243 ",970,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HTM UCIAMS-77365",1020,15)
{
  Outlier("General",0.05);
};
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R_date("HVE Beta-213422",1140,40)
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R_date("KTS UCIAMS-77360",1080,15)
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R_date("KVS HAR 2155",1180,130)
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R_date("LNG-AS1 SUERC-8240",1080,35)
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R_date("LNG-CP1 SUERC-8217",1135,35)
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R_date("LNG-CP4 SUERC-8228",1065,35)
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R_date("LNG-CP4 SUERC-8229",1075,35)
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R_date("MKF-REU17 SUERC-8209",1115,35)
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R_date("MLH 1",1145,15)
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R_date("MRB UCIAMS-49331",1070,20)
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R_date("MVR Beta-236720",1120,40)
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R_date("MVR Beta-236721",1170,40)
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R_date("NAU Beta-223443",1060,40)
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R_date("ODO SUERC-27385",1140,30)
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R_date("ODO SUERC-27390 ",1005,30)
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R_date("ODO SUERC-27393 ",955,30)
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R_date("PLT Beta 216811",1000,40)
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R_date("RIS 2 AA-46687",1189,32)
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R_date("RIS 2 RISL Beta-167781",1160,60)
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R_date("RKH RCD-47",1160,60)
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R_date("RKH SUERC-164",915,40)
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R_date("RKH SUERC-5119",1130,35)
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R_date("RKH SUERC-5123 a",990,35)
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R_date("RKH SUERC-8207",975,35)
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R_date("RKH SUERC-8890",990,90)
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R_date("RKV-ADR Beta-346805",1295,25)
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R_date("RKV-AST AAR-7610",1102,35)
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R_date("RKV-AST AAR-7611",1092,39)
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R_date("RKV-AST AAR-7612",1150,36)
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R_date("RKV-AST AAR-7613",1087,35)
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R_date("RKV-AST AAR-7616",1129,35)
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R_date("RKV-AST AAR-7617",1152,36)
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R_date("RKV-AST AAR-7618",1082,37)
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R_date("RKV-AST AAR-7619",1282,35)
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};
R_date("RKV-AST AAR-7620",1184,35)
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};
R_date("RKV-AST AAR-7621",1210,33)
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};
R_date("RKV-AST AAR-7622",1262,35)
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R_date("RKV-AST AAR-7623",1226,33)
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R_date("RKV-AST AAR-7624",1192,36)
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};
R_date("RKV-AST AAR-7625",1236,35)
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};
R_date("RKV-AST K-940",1340,100)
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};
R_date("RKV-AST U-2530",1330,80)
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R_date("RKV-AST U-2592",1140,90)
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};
R_date("RKV-AST U-2617",1280,120)
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R_date("RKV-GTG K-949",1340,100)
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R_date("RKV-SGT K-4271",1110,75)
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R_date("RKV-SGT U-2672",1345,60)
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R_date("RKV-SGT U-2674",1060,55)
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R_date("RKV-SGT U-2676",1260,55)
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R_date("RKV-SGT U-2677",1250,100)
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R_date("RKV-SGT U-2678",1210,260)
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R_date("RKV-SGT U-2679 ",1080,60)
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R_date("RKV-SGT U-2680",1375,70)
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R_date("RKV-SGT U-2681",1255,65)
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};
R_date("RKV-SGT U-2682",1090,80)
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R_date("RKV-SGT U-2719",1360,60)
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R_date("RKV-SGT U-2720",1270,90)
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R_date("RKV-SGT U-2721",1050,85)
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R_date("RKV-SGT U-2739",1310,70)
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R_date("RKV-SGT U-2740",1280,65)
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R_date("RKV-SGT U-2741",1330,40)
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R_date("RKV-SGT U-2742",1150,60)
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R_date("RKV-SGT U-2743",1140,65)
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R_date("RKV-SGT U-2747",1245,80)
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R_date("RKV-SGT U-2748 ",1250,65)
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R_date("RKV-TRG U-2082",1140,70)
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R_date("RKV-TRG U-2167",1190,90)
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R_date("SDM GU-14456",1040,35)
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R_date("SGFY 1",1130,15)
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R_date("SKO SUERC-27380 ",1015,30)
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R_date("SKT SUERC-54613",1070,29)
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R_date("SKT SUERC-54614",1082,30)
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R_date("SKT SUERC-54618",1137,30)
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R_date("SKT SUERC-54619",1062,30)
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R_date("SLH AA-49631",995,45)
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R_date("SVK SUERC-27395",1105,30)
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R_date("SVK SUERC-27399",1060,30)
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R_date("SVK SUERC-27400",1075,30)
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R_date("SVK SUERC-27401",1100,30)
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R_date("SVK SUERC-27403",1015,30)
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R_date("UTS SUERC-60012 ",942,29)
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R_date("VOG Beta-302066",1030,30)
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R_date("VOG Beta-330301",1120,30)
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R_date("VSF 2",1035,35)
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R_date("RKH SUERC-6683",880,40)
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R_date("SBO AA-52499 ",870,40)
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R_date("SDM GU-14455",920,35)
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R_date("SKT SUERC-54612",899,30)
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R_date("STG K-4488 ",840,50)
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R_date("STG K-5366 ",800,50)
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R_date("RKH SUERC-163",930,65)
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R_date("RKH SUERC-8208",950,35)
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};
R_date("RKH SUERC-8382",880,35)
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R_date("RKH SUERC-8383",925,35)
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R_date("HOSK SUERC-8249",925,35)
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R_date("HOSK SUERC-8346",945,35)
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R_date("HOSK SUERC-8350",895,35)
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R_date("HOSK SUERC-8351",935,35)
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R_date("LNG-REU23 SUERC-8212",960,35)
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R_date("LNG-REU23 SUERC-8216",940,35)
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R_date("RKH Beta-147804",940,70)
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R_date("BDH S-66",920,60)
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R_date("DOR Beta-125007",940,50)
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R_date("HLS Beta 34358",950,60)
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R_date("HLS Beta 34361",930,90)
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R_date("STG K-4490",860,50)
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R_date("STG K-4491 ",950,65)
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R_date("STG K-4492 ",930,65)
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R_date("AHV Brim-1128",940,60)
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R_date("DVD Beta-257295",880,40)
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R_date("DVD Beta-257296",940,40)
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R_date("DVD Beta-288071",890,40)
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R_date("GAT St-3605",935,100)
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R_date("HDK St-4572",900,100)
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R_date("HTH K-1244 ",890,100)
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  Outlier("Charcoal Plus",1.0);
};
R_date("HTH K-1245 ",910,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("KVS HAR-2092",900,70)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKH ARR-10752",933,34)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKH SUERC-57017",932,29)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKV-ADR Beta-339967",950,30)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKV-ADR Beta-346804",885,25)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKV-AST U-2593",960,90)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("RKV-SGT U-2535",810,70)
{
  Outlier("Charcoal Plus",1.0);
};
};
Boundary();
};

```

Model 4: General Outlier Model, bone samples with mixed diet (n = 49)

```

Plot()
{
  Outlier_Model("General", T(5), U(0,4), "t");
  Sequence()
  {
    Boundary("Start occupation");
    Phase()
    {
      Curve("IntCal13","IntCal13.14c");
      Curve("Marine13","Marine13.14c");
      Delta_R("LocalMarine",111,10);
      Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
      R_date("BRU ARR-5874",1145,34)
      {
        Outlier("General",0.05);
      };
      Curve("IntCal13","IntCal13.14c");
      Curve("Marine13","Marine13.14c");
      Delta_R("LocalMarine",111,10);
      Mix_Curve("Mixed","IntCal13","LocalMarine",23,10);
      R_date("BVD ARR-5860",1150,35)

```

```

{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",59,10);
R_date("BVD ARR-5906",1292,48)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",41,10);
R_date("HRB-CK AA-93254",1207,44)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("HRB-CK Beta-165331",1360,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",12,10);
R_date("HRB-CK Beta-203867",1080,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",25,10);
R_date("HRB-CK Beta-244587",1150,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",8,10);
R_date("HRB-CK Beta-244589",1120,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("HRB-CK Beta-244590",1270,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("HRB-CK UCIAMS-107238",1235,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",20,10);
R_date("HRB-CK UCIAMS-107239",1190,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("HRB-CK UCIAMS-134935",1020,20)

```

```

{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",31,10);
R_date("HRB-CK UCIAMS-134936",1265,20)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",44,10);
R_date("HRB-CK UCIAMS-134937",1250,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",9,10);
R_date("KDD ARR-9235",1065,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",12,10);
R_date("KDD ARR-9236",973,39)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",6,10);
R_date("KDD ARR-9237",1055,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",8,10);
R_date("KDD ARR-9238",1027,49)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",15,10);
R_date("KDD ARR-9241",1054,37)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",14,10);
R_date("KDD ARR-9242",1110,42)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",7,10);
R_date("KDD ARR-9243",1153,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",40,10);
R_date("KDD ARR-9244",1265,55)

```



```

{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",38,10);
R_date("VDP ARR-5864.1",1308,30)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("VDP ARR-5864.2",1259,26)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",47,10);
R_date("VDP ARR-5865",1330,42)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",52,10);
R_date("VDP ARR-5866",1320,30)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",49,10);
R_date("VDP ARR-5867",1263,28)
{
  Outlier("General",0.05);
};
};
Boundary();
};
};

```

Model 5: General Charcoal Plus Outlier Model, all samples (n = 384)

```

Plot()
{
  Outlier_Model("General", T(5), U(0,4), "t");
  Prior("charcoal_plus","charcoal_plus.prior");
  Outlier_Model("Charcoal_Plus",Prior("charcoal_plus"),U(0,3),"t");
  Sequence()
  {
    Boundary("387");
    Phase()
    {
      R_date("BDH K-580",1010,100)
      {
        Outlier("Charcoal Plus",1.0);
      };
      R_date("BST SFUICE-1 ",1020,30)
      {
        Outlier("General",0.05);
      };
      R_date("BST SFUICE-2 ",1020,40)
      {
        Outlier("General",0.05);
      };
      R_date("BST SFUICE-3 ",1080,30)
      {
        Outlier("General",0.05);
      };
    }
  }
}

```

```

};
R_date("BVD ARR-5905",1080,30)
{
  Outlier("General",0.05);
};
R_date("DOR T-13780",1070,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("DVD Beta-236723",1120,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("DVD Beta-236724",1130,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("DVD Beta-288070",980,40)
{
  Outlier("General",0.05);
};
R_date("ERS AAR-3963",1115,37)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("ERS AAR-4743a",1150,30)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("ERS AAR-4743b",1120,30)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("FOS Beta-288068",1030,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("FXG U-4328",1030,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GAT St-3604 ",980,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GDH UCIAMS-49330",1045,20)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GEI 1",980,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GEI 2",1040,45)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GEI 3",1060,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GFG AA-55486",982,45)
{
  Outlier("General",0.05);
};
R_date("GLH Beta-236719",980,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GLT U-2899 ",1015,70)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GLT U-2900",1070,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GLT U-299",1190,100)
{
  Outlier("Charcoal Plus",1.0);
};

```



```

};
R_date("GMB SUERC-2029",1185,35)
{
  Outlier("General",0.05);
};
R_date("GMB SUERC-2670",1115,35)
{
  Outlier("General",0.05);
};
R_date("GMBL AA-46688",990,46)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GMBL AA-46689",1017,56)
{
  Outlier("General",0.05);
};
R_date("GMBL AA-55489",969,43)
{
  Outlier("General",0.05);
};
R_date("GRA KI-2854",1070,50)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-2855",1032,80)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-2856",1110,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-3235",1170,90)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRA KI-3236",1100,50)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("GRS SUERC-2019",1145,35)
{
  Outlier("General",0.05);
};
R_date("GRS SUERC-2262",1105,35)
{
  Outlier("General",0.05);
};
R_date("GTL SUERC-2352",1170,40)
{
  Outlier("General",0.05);
};
R_date("GTL SUERC-2664",1175,35)
{
  Outlier("General",0.05);
};
R_date("HJD U-2529",1260,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2531 ",1060,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2533",1240,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2660 ",1390,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2661 ",1340,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-2662",1240,50)
{
  Outlier("Charcoal Plus",1.0);
};
};
R_date("HJD U-2663 ",1300,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-4402 ",1035,65)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HJD U-4403",1070,75)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HKD ARR-1252",1030,75)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HKD ARR-1253",1115,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-109905",1070,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-143634",1200,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM Beta-143635",1450,70)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLM T 13781",1245,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HLS Beta 34359",1190,90)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HOSK SUERC-8341",990,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8344",970,35)
{
  Outlier("General",0.05);
};
R_date("HOSK SUERC-8345",965,35)
{
  Outlier("General",0.05);
};
R_date("HOT St-5299",1040,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HRB-CK Beta 165332",1100,40)
{
  Outlier("General",0.05);
};
R_date("HRB-CK Beta 175675",1070,40)
{
  Outlier("General",0.05);
};
R_date("HRB-CK Beta-175676",1150,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HRB-EH OS-35415",1060,30)
{
  Outlier("General",0.05);
};
R_date("HRB-EH OS-37965",1060,30)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64168",1040,20)
{
  Outlier("General",0.05);
};

```

```

};
R_date("HRB-TUN UCIAMS-64169",1055,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64170",1085,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64171",1125,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64172",1140,15)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64173",1145,20)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64174",1080,25)
{
  Outlier("General",0.05);
};
R_date("HRB-TUN UCIAMS-64175",1115,15)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49627 ",1150,35)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49628 ",1135,45)
{
  Outlier("General",0.05);
};
R_date("HRH AA-49629 ",1135,45)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3439",1085,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3440 ",1150,40)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3441",1095,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3442",1120,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3445",1090,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-3446",1080,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6431",1220,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6432",1200,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6433",1120,35)
{
  Outlier("General",0.05);
};
R_date("HRH SUERC-6437",1120,35)
{
  Outlier("General",0.05);
};

```

```

};
R_date("HSB U-4014",1090,80)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HSS AA-55485",1158,44)
{
  Outlier("General",0.05);
};
R_date("HST AA-53125 ",1035,35)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HST AA-53126 ",1015,45)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HST Beta-124004",1170,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149403",1120,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149404",1130,40)
{
  Outlier("General",0.05);
};
R_date("HST Beta-149405",1160,50)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11541 ",1030,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11542 ",1040,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11546 ",1075,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-11547 ",1160,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3429",1160,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3430",1170,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3432",1040,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3433",1030,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-3440",1150,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6392",1065,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6393",1120,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6397",1110,35)
{
  Outlier("General",0.05);
};

```

```

};
R_date("HST SUERC-6398",1035,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-6399",1015,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8353 ",990,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8354 ",1035,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8356 ",1040,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8360 ",1050,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8618",1110,40)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8619",1110,30)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8623",1130,35)
{
  Outlier("General",0.05);
};
R_date("HST SUERC-8624 ",1080,35)
{
  Outlier("General",0.05);
};
R_date("HTH K-1243 ",970,100)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HTM UCIAMS-77365",1020,15)
{
  Outlier("General",0.05);
};
R_date("HVE Beta-213421",1160,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("HVE Beta-213422",1140,40)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("IKB Beta-117298",1070,60)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("KTS UCIAMS-77360",1080,15)
{
  Outlier("General",0.05);
};
R_date("KUD 1",995,30)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("KVS HAR 2155",1180,130)
{
  Outlier("Charcoal Plus",1.0);
};
R_date("LGF 1",1105,15)
{
  Outlier("General",0.05);
};
R_date("LNG-AS1 SUERC-8239",1050,35)
{
  Outlier("General",0.05);
};
};
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R_date("MKF-REU17 SUERC-8210",1090,35)
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R_date("MRB UCIAMS-49331",1070,20)
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R_date("MVR Beta-236721",1170,40)
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R_date("NAU Beta-223443",1060,40)
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R_date("RKV-AST AAR-7621",1210,33)
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R_date("RKV-AST AAR-7622",1262,35)
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R_date("RKV-AST AAR-7623",1226,33)
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R_date("RKV-AST AAR-7624",1192,36)
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R_date("RKV-AST AAR-7625",1236,35)
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R_date("RKV-AST K-940",1340,100)
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};
R_date("RKV-AST U-2530",1330,80)
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R_date("RKV-AST U-2592",1140,90)
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R_date("RKV-SGT U-2739",1310,70)
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R_date("RKV-SGT U-2747",1245,80)
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R_date("RKV-SGT U-2748 ",1250,65)
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R_date("RKV-TRG U-2082",1140,70)
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R_date("STG K-4492 ",930,65)
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R_date("HTH K-1245 ",910,100)
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Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
R_date("BRU ARR-5874",1145,34)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",23,10);
R_date("BVD ARR-5860",1150,35)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",59,10);
R_date("BVD ARR-5906",1292,48)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",41,10);
R_date("HRB-CK AA-93254",1207,44)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);

```



```

Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("HRB-CK Beta-165331",1360,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",12,10);
R_date("HRB-CK Beta-203867",1080,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",25,10);
R_date("HRB-CK Beta-244587",1150,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",8,10);
R_date("HRB-CK Beta-244589",1120,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("HRB-CK Beta-244590",1270,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("HRB-CK UCIAMS-107238",1235,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",20,10);
R_date("HRB-CK UCIAMS-107239",1190,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("HRB-CK UCIAMS-134935",1020,20)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",31,10);
R_date("HRB-CK UCIAMS-134936",1265,20)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",44,10);
R_date("HRB-CK UCIAMS-134937",1250,15)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);

```

```

Mix_Curve("Mixed","IntCal13","LocalMarine",9,10);
R_date("KDD ARR-9235",1065,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",12,10);
R_date("KDD ARR-9236",973,39)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",6,10);
R_date("KDD ARR-9237",1055,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",8,10);
R_date("KDD ARR-9238",1027,49)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",15,10);
R_date("KDD ARR-9241",1054,37)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",14,10);
R_date("KDD ARR-9242",1110,42)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",7,10);
R_date("KDD ARR-9243",1153,50)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
R_date("KDD ARR-9245",1135,39)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",11,10);
R_date("KDD ARR-9246",988,42)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);

```

```

Mix_Curve("Mixed","IntCal13","LocalMarine",16,10);
R_date("KDD ARR-9247",1156,38)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
R_date("KDD ARR-9248",1116,44)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",17,10);
R_date("KDD ARR-9249",1010,39)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
R_date("KDD ARR-9250",952,38)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",12,10);
R_date("KDD ARR-9251",979,45)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",6,10);
R_date("KDD ARR-9252",1220,30)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",19,10);
R_date("KDD ARR-9253",1150,49)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",6,10);
R_date("KDD ARR-9254",1148,36)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",49,10);
R_date("KDD ARR-9255",1334,34)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",9,10);
R_date("SKS ARR-5870",1210,26)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);

```

```

Mix_Curve("Mixed","IntCal13","LocalMarine",6,10);
R_date("SLS ARR-5880",1075,35)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",7,10);
R_date("SLS ARR-5883",1094,27)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("SLS ARR-5887",1058,29)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",10,10);
R_date("SLS ARR-5890",1154,66)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",15,10);
R_date("SLS ARR-5891",1183,40)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",14,10);
R_date("STR ARR-5875",1135,35)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",13,10);
R_date("VAD ARR-5877",1060,35)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",40,10);
R_date("VDP ARR-5864",1289,37)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",38,10);
R_date("VDP ARR-5864.1",1308,30)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",39,10);
R_date("VDP ARR-5864.2",1259,26)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);

```

```

Mix_Curve("Mixed","IntCal13","LocalMarine",47,10);
R_date("VDP ARR-5865",1330,42)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",52,10);
R_date("VDP ARR-5866",1320,30)
{
  Outlier("General",0.05);
};
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Delta_R("LocalMarine",111,10);
Mix_Curve("Mixed","IntCal13","LocalMarine",49,10);
R_date("VDP ARR-5867",1263,28)
{
  Outlier("General",0.05);
};
};
Boundary();
};
};

```

Model 6: Reykjavík-SUD (n = 20)

```

Plot()
{
  Prior("charcoal_plus","charcoal_plus.prior");
  Outlier_Model("Charcoal_Plus",Prior("charcoal_plus"),U(0,3),"t");
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
    Boundary("Reykjavik-SUD");
    Phase("Early structures")
    {
      R_Date("SGT U-2720", 1270, 90)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2534", 1000, 75)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2746", 1090, 65)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2681", 1255, 65)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2748", 1250, 65)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2744", 1245, 60)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2747", 1245, 80)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
      R_Date("SGT U-2671", 1150, 55)
      {
        Outlier("Charcoal_Plus", 1);
        color="black";
      };
    }
  }
};

```

```

R_Date("SGT U-2721", 1050, 85)
{
  Outlier("Charcoal_Plus", 1);
  color="black";
};
R_Date("SGT U-2682", 1090, 80)
{
  Outlier("Charcoal_Plus", 1);
  color="black";
};
R_Date("SGT U-2677", 1250, 100)
{
  Outlier("Charcoal_Plus", 1);
  color="black";
};
Boundary("");
Phase("Later structures")
{
  R_Date("SGT U-2742", 1150, 60)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("SGT U-2743", 1140, 65)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("SGT U-2674", 1060, 55)
  {
    Outlier("General", 0.05);
    color="brown";
  };
};
Boundary("");
};

```

Model 7: Reykjavík-AST (n = 16)

```

Plot()
{
  Outlier_Model("General",T(5),U(0,4),"t");
  Prior("charcoal_plus","charcoal_plus.prior");
  Outlier_Model("Charcoal_Plus",Prior("charcoal_plus"),U(0,3),"t");
  Sequence()
  {
    Boundary("Reykjavik-AST");
    Phase("Deposits")
    {
      Phase("Floor deposits")
      {
        R_Date("ARR-7625", 1236, 35)
        {
          Outlier("Charcoal_Plus", 1);
          color="black";
        };
        R_Date("ARR-7617", 1152, 36)
        {
          Outlier("General", 0.05);
          color="brown";
        };
        R_Date("AST ARR-7623", 1226, 33)
        {
          Outlier("Charcoal_Plus", 1);
          color="black";
        };
        R_Date("ARR-7615", 1153, 36)
        {
          Outlier("General", 0.05);
          color="brown";
        };
        R_Date("ARR-7624", 1192, 36)
        {
          Outlier("Charcoal_Plus", 1);
          color="black";
        };
      }
    }
  }
};

```

```

};
R_Date("ARR-7616", 1129, 35)
{
  Outlier("General", 0.05);
  color="brown";
};
};
Boundary("Transition Floor-hearth");
Sequence("Hearth deposits")
{
  R_Date("ARR-7622", 1262, 35)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("ARR-7614", 1218, 40)
  {
    Outlier("General", 0.05);
    color="brown";
  };
  R_Date("ARR-7620", 1184, 35)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("ARR-7612", 1150, 36)
  {
    Outlier("General", 0.05);
    color="brown";
  };
  R_Date("ARR-7621", 1210, 33)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("ARR-7613", 1087, 35)
  {
    Outlier("General", 0.05);
    color="brown";
  };
  R_Date("ARR-7619", 1282, 35)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("ARR-7611", 1092, 39)
  {
    Outlier("General", 0.05);
    color="brown";
  };
  R_Date("AST ARR-7618", 1082, 37)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  R_Date("ARR-7610", 1102, 35)
  {
    Outlier("General", 0.05);
    color="brown";
  };
  };
  };
  Boundary("Charcoal_Plus");
};
};

```

Model 8: Hrísheimar (n = 13)

```

Plot()
{
  Outlier_Model("General",T(5),U(0,4),"t");
  Sequence()
  {
    Boundary("Hrisheimar");
    Phase("")
    {
      Sequence()
      {

```

```

Phase ("Early midden LTL-V-Sv")
{
  R_Date("SUERC-6431", 1220, 35)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("SUERC-6432", 1200, 35)
  {
    Outlier("General", 0.05);
    color="green";
  };
  Boundary("GOM Hrisheimar post-Landnam");
  Phase ("Late midden post-V-Sv")
  {
    R_Date("SUERC-6437", 1120, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-6433", 1120, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-3440", 1150, 40)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("AA-49627", 1150, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("AA-49628", 1135, 45)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-3439", 1085, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
  };
  Boundary("Transition");
  Phase ("no tephra")
  {
    R_Date("SUERC-3441", 1095, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-3442", 1120, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-3445", 1090, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
    R_Date("SUERC-3446", 1080, 35)
    {
      Outlier("General", 0.05);
      color="green";
    };
  };
  };
  Boundary("");
};

```

Model 9: Sveigakot (n = 18)

```
Plot()
{
  Outlier_Model("General", T(5), U(0,4), "t");
  Curve("IntCal13", "IntCal13.14c");
  Sequence()
  {
    Boundary("Sveigakot");
    Sequence()
    {
      R_date("SVK Beta-134146", 1100, 40)
      {
        Outlier("General", 0.05);
      };
    };
    Phase(above V-Sv)
    {
      R_date("SVK Beta-134144", 1120, 40)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27400", 1075, 30)
      {
        Outlier("General", 0.05);
      };
    };
  };
  Boundary();
  Phase()
  {
    Phase(no tephra)
    {
      R_date("SVK SUERC-27394", 1210, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27395", 1105, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27399", 1060, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27401", 1100, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27402", 1095, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27403", 1015, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-27404", 1110, 30)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-28657", 1105, 35)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-28652", 1050, 35)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK SUERC-28653", 1090, 35)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK Beta-146583", 1040, 40)
      {
        Outlier("General", 0.05);
      };
      R_date("SVK Beta-146584", 1010, 40)
      {
        Outlier("General", 0.05);
      };
    };
  };
}
```

```
};
};
};
Boundary();
Phase(halls)
{
  R_date("SVK AA-52496", 920, 40)
  {
    Outlier("General", 0.05);
  };
  R_date("SVK Beta-154783", 930, 40)
  {
    Outlier("General", 0.05);
  };
  R_date("SVK Beta-154785", 930, 40)
  {
    Outlier("General", 0.05);
  };
};
Boundary();
};
};
```

Model 10: Skútustaðir (n = 17)

```
Plot()
{
  Outlier_Model("General", T(5), U(0,4), "t");
  Sequence()
  {
    Boundary("Skutusstaðir");
    Phase("")
    {
      Sequence()
      {
        R_Date("SUERC-20218", 1215, 30)
        {
          Outlier("General", 0.05);
          color="green";
        };
      };
      Boundary("");
      Phase ("multiple midden contexts post-V-Sv")
      {
        R_Date("SUERC 60004", 1166, 26)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 20219", 1040, 30)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 59997", 1000, 29)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 59998", 975, 29)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 60003", 1058, 29)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 54613", 1070, 29)
        {
          Outlier("General", 0.05);
          color="green";
        };
        R_Date("SUERC 54614", 1082, 30)
        {
          Outlier("General", 0.05);
          color="green";
        };
      };
    };
  };
}
```

```

};
R_Date("SUERC 54618", 1137, 30)
{
  Outlier("General", 0.05);
  color="green";
};
R_Date("SUERC 54619", 1062, 30)
{
  Outlier("General", 0.05);
  color="green";
};
R_Date("SUERC 54622", 1027, 30)
{
  Outlier("General", 0.05);
  color="green";
};
R_Date("SUERC 54623", 986, 29)
{
  Outlier("General", 0.05);
  color="green";
};
R_Date("SUERC 54624", 1121, 31)
{
  Outlier("General", 0.05);
  color="green";
};
};
Boundary("");
Phase("")
{
  R_Date("SUERC 54611", 1060, 29)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("SUERC 60005", 1086, 29)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("SUERC 60279", 1093, 31)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("SUERC 60006", 991, 26)
  {
    Outlier("General", 0.05);
    color="green";
  };
};
};
Boundary("");
};
};

```

Model 11: Hrísbú (n = 11)

```

Plot()
{
  Prior("charcoal_plus","charcoal_plus.prior");
  Outlier_Model("Charcoal_Plus",Prior("charcoal_plus"),U(0.3),"t");
  Outlier_Model("General",T(5),U(0.4),"t");
  Sequence()
  {
    Boundary("Hrisbru");
    Phase ("Early occupation")
    {
      Phase ("Pre-church")
      {
        R_Date("Beta-175675", 1070, 40)
        {
          Outlier("General", 0.05);
          color="olive";
        };
        R_Date("Beta-165332", 1100, 40)
        {

```

```

  Outlier("General", 0.05);
  color="olive";
  };
  };
  Phase ("Upper floor layer")
  {
    R_Date("UCIAMS-64171", 1125, 20)
    {
      Outlier("General", 0.05);
      color="brown";
    };
    R_Date("UCIAMS-64173", 1145, 20)
    {
      Outlier("General", 0.05);
      color="brown";
    };
    R_Date("UCIAMS-64172", 1140, 15)
    {
      Outlier("General", 0.05);
      color="brown";
    };
  };
  Boundary("Transition floor-midden deposits");
  Phase("Midden deposits")
  {
    Phase("Deposit")
    {
      R_Date("UCIAMS-64175", 1115, 15)
      {
        Outlier("General", 0.05);
        color="brown";
      };
      R_Date("UCIAMS-64170", 1085, 20)
      {
        Outlier("General", 0.05);
        color="brown";
      };
    };
  };
  Sequence ("Deposit")
  {
    R_Date("UCIAMS-64174", 1080, 25)
    {
      Outlier("General", 0.05);
      color="brown";
    };
    R_Date("UCIAMS-64168", 1040, 20)
    {
      Outlier("General", 0.05);
      color="brown";
    };
    R_Date("UCIAMS-64169", 1055, 20)
    {
      Outlier("General", 0.05);
      color="brown";
    };
  };
  R_Date("Beta-175676", 1150, 40)
  {
    Outlier("Charcoal_Plus", 1);
    color="black";
  };
  };
  Boundary("End occupation TUN");
  };
};

```

Model 12: Hofstaðir pit house (n = 11)

```

Plot()
{
  Outlier_Model("General",T(5),U(0.4),"t");
  Sequence()
  {
    Boundary("Hofstadir pit house");
    R_Date("Beta 149404", 1130, 40)
    {
      Outlier("General", 0.05);

```

```

color="green";
};
Boundary("");
Phase ("Context 7a")
{
R_Date("SUERC 3430", 1170, 40)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 3429", 1160, 35)
{
Outlier("General", 0.05);
color="green";
};
};
Boundary("");
Phase ("Context 6n")
{
R_Date("SUERC 8624", 1080, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8623", 1130, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8619", 1110, 30)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8618", 1110, 40)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("Beta 124004", 1170, 40)
{
Outlier("General", 0.05);
color="green";
};
};
Boundary("");
R_Date("SUERC 3433", 1030, 35)
{
Outlier("General", 0.05);
color="green";
};
};
Boundary("");
Phase ("Context 6d")
{
R_Date("SUERC 3432", 1040, 40)
{
Outlier("General", 0.05);
color="green";
};
};
};
Boundary("");
R_Date("Beta 149403", 1120, 40)
{
Outlier("General", 0.05);
color="green";
};
};
Boundary("");
};
};

```

```

{
Boundary("OM Hofstadir hall");
Phase ("Hall and annexes")
{
Sequence ("Annexe D1")
{
R_Date("SUERC 11547", 1160, 35)
{
Outlier("General", 0.05);
color="green";
};
};
Phase ("D1, Turf collapse")
{
R_Date("SUERC 6393", 1120, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 6392", 1065, 35)
{
Outlier("General", 0.05);
color="green";
};
};
};
Phase ("Hall AB, floor")
{
R_Date("SUERC 11541", 1030, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 11542", 1040, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 11546", 1075, 35)
{
Outlier("General", 0.05);
color="green";
};
};
};
Phase ("Annexe A2, collapse")
{
R_Date("SUERC 6397", 1110, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 6398", 1035, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 6399", 1015, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8356", 1040, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8354", 1035, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8353", 990, 35)
{
Outlier("General", 0.05);
color="green";
};
};
R_Date("SUERC 8360", 1050, 35)
{
Outlier("General", 0.05);
color="green";
};
};
};
};

```

Model 13: Hofstaðir hall (n = 13)

```

Plot()
{
Outlier_Model("General",T(5),U(0.4),"t");
Sequence("Hall")

```

```

};
};
Boundary("");
};
};

```

Model 14: Archaeological sites prior (118)

```

Plot()
{
  Sequence()
  {
    Boundary("Iceland OM priors");
    Phase ("")
    {
      Date(Prior("Reykjavik_SUD", "Reykjavik_SUD.prior"));
      Date(Prior("Reykjavik_AST", "Reykjavik_AST.prior"));
      Date(Prior("Hrisheimar", "Hrisheimar.prior"));
      Date(Prior("Skutusstadir", "Skutusstadir.prior"));
      Date(Prior("Sveigakot", "Sveigakot.prior"));
      Date(Prior("Hrisbru", "Hrisbru.prior"));
      Date(Prior("Hofstadir_pit_house", "Hofstadir_pit_house.prior"));
      Date(Prior("Hofstadir_hall", "Hofstadir_hall.prior"));
    };
    Boundary("");
  };
};

```

Model 15: Archaeological sites prior including LTL (n = 118)

```

Plot()
{
  Sequence()
  {
    C_Date("LTL", 877, 1);
    Boundary("Iceland OM priors");
    Phase ("")
    {
      Date(Prior("Reykjavik_SUD", "Reykjavik_SUD.prior"));
      Date(Prior("Reykjavik_AST", "Reykjavik_AST.prior"));
      Date(Prior("Hrisheimar", "Hrisheimar.prior"));
      Date(Prior("Skutusstadir", "Skutusstadir.prior"));
      Date(Prior("Hrisbru", "Hrisbru.prior"));
      Date(Prior("Sveigakot", "Sveigakot.prior"));
      Date(Prior("Hofstadir_pit_house", "Hofstadir_pit_house.prior"));
      Date(Prior("Hofstadir_hall", "Hofstadir_hall.prior"));
    };
    Boundary("");
  };
};

```