

Supplementary Information 2

2.1. *OxCal code SM/C:Dune*

```
Plot()
{
  Outlier_Model("General",T(5),U(0,4),"t");
  Axis(1250,1500);
  Curve("SHCal20","shcal20.14c");
  Sequence(SRM Dune)
  {
    Boundary("Start 11");
    Phase("SRM Layer 11")
    {
      R_Date("WkA-43681 egg",614,20)
      {
        color="red";
        Outlier("General", 0.05);
      };
      R_Date("WkA-43682 egg",627,20)
      {
        color="red";
        Outlier("General", 0.05);
      };
    };
    Boundary("SRM End 11");
    Interval("Interval L9/11");
    Boundary("SRM Start 9");
    Phase("SRM Layer 9")
    {
      R_Date("WkA-55312 ch",694,16)
      {
        color="green";
        Outlier("General", 0.05);
      };
      R_Date("WkA-56765 egg",709,16)
      {
        color="green";
        Outlier("General",0.05);
      };
    };
  };
};
```

```
Boundary("SRM End 9");
Phase("SRM Layer 8")
{
};
Interval("Interval L8/9");
Boundary("SRM Start 7");
Phase("SRM Layer 7")
{
  R_Date("WkA-55309 ch",623,16)
  {
    color="yellow";
    Outlier("General", 0.05);
  };
  R_Date("WkA-55308 ch",645,16)
  {
    color="yellow";
    Outlier("General", 0.05);
  };
};
Boundary("SRM Layer 6 lower");
Interval("Interval L7/6");
Boundary("SRM Layer 6 upper");
Phase("SRM Layer 6")
{
  R_Date("WkA-55307 ch",546,15)
  {
    color="pink";
    Outlier("General", 0.05);
  };
  R_Date("WkA-56764 ch",565,16)
  {
    color="pink";
    Outlier("General", 0.05);
  };
};
Boundary("SRM Start 5");
Phase("SRM Layer 5")
{
  R_Date("WkA-60533 egg",597,18)
  {
    color="orange";
    Outlier("General",0.05);
```

```
};  
R_Date("WkA-56203 pigeon bone",590,15)  
{  
  color="orange";  
  Outlier("General",0.05);  
};  
R_Date("WkA-55305 ch",620,15)  
{  
  color="orange";  
  Outlier("General", 0.05);  
};  
};  
Boundary("SRM Start 4");  
Phase("SRM Layer 4")  
{  
  R_Date("WkA-56763 ch",543,20)  
  {  
    color="blue";  
    Outlier("General",0.05);  
  };  
};  
Boundary("SRM End 3");  
Span("Span SRM");  
Difference("Difference 11/9","SRM Start 9","SRM End 11");  
Difference("Difference 9/7","SRM Start 7","SRM End 9");  
};  
};
```

2.2. OxCal code Kokohuia, Area 3 midden

```
Plot()
{
Axis(1400,1650);
Curve("SHCal20","shcal20.14c");
Outlier_Model("General", T(5), U(0,4), "t");
Phase("A")
{
Sequence(Kokohuia)
{
Boundary("Start Layer 5");
Phase("Layer 5a")
{
R_Date("WkA-60656 Layer Va-2 s",540,15)
{
Outlier("General", 0.05);
color="red";
};
R_Date("WkA-60812 Layer Va-1 s",502,17)
{
Outlier("General", 0.05);
color="red";
};
};
Boundary("End Layer 5");
Interval("Layer 4/5 sand lens");
Boundary("Start Layer 4");
R_Date("WkA-55275 Layer IV",372,19)
{
Outlier("General", 0.05);
color="blue";
};
Boundary("End Layer 4");
Interval("Layer 3/4 sand lens");
Boundary("Start Layer 3");
R_Date("WkA-58630 Layer III",362,16)
{
Outlier("General", 0.05);
color="grey";
};
};
};
```

```
Boundary("Start Layer 2");
Phase("Layer II")
{
  R_Date("WkA-58629 Layer II",386,16)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("WkA-59271 Layer II",390,16)
  {
    Outlier("General", 0.05);
    color="green";
  };
  R_Date("WkA-59272 Layer II",393,17)
  {
    Outlier("General", 0.05);
    color="green";
  };
};
Boundary("End Layer 2");
Span("kok");
Difference("Lower sand","Start Layer 4","End Layer 5");
Difference("Upper sand","Start Layer 3","End Layer 4");
};
};
};
```