

SUPPLEMENTARY MATERIAL

Full OxCal code for Rakahanga sample triads.

```
Plot()
{
Sequence()
{
Boundary();
Phase()
{
Curve("SHCal13","SHCal13.14c");
Curve("IntCal13","IntCal13.14c");
Curve("Marine13","Marine13.14c");
Sequence()
{
Boundary();
Phase("TK001 R-92")
{
Mix_Curves("MixedTerrestrial1","SHCal13","IntCal13",U(0,100));
R_Date("38552 pandanus", 110, 20);
Curve("=Marine13");
Delta_R("Regional Marine1", U(-100,100));
R_Date("38554 shell", 750, 20);
Mix_Curve("MixedMarineTerrestrial1","MixedTerrestrial1","Regional Marine1",85,10);
R_Date("36969 dog", 670, 20);
};
Boundary();
};
Sequence()
{
Boundary();
Phase("TK001 R-48")
{
Mix_Curves("MixedTerrestrial2","SHCal13","IntCal13",U(0,100));
R_Date("36970 pandanus", 310, 20);
Curve("=Marine13");
Delta_R("Regional Marine2", U(-100,100));
R_Date("38553 shell", 810, 20);
Mix_Curve("MixedMarineTerrestrial2","MixedTerrestrial2","Regional Marine2",64,10);
R_Date("36967 dog", 740, 20);
};
Boundary();
};
Sequence()
{
Boundary();
Phase("TK001 R-60")
{
Mix_Curves("MixedTerrestrial3","SHCal13","IntCal13",U(0,100));
R_Date("40095 cocos", 660,25);
Curve("=Marine13");
Delta_R("Regional Marine3", U(-100,100));
R_Date("40097 shell", 810,30);
Mix_Curve("MixedMarineTerrestrial3","MixedTerrestrial3","Regional Marine3",78,10);
R_Date("40096 dog", 850, 25);
};
Boundary();
};
Boundary();
Before("Ethnographic Record",C_Date(1849,10));
};
};
```