Supplemental Text 1. OxCal code for Bayesian model of dates from Iruhito*.*

Plot()

 {

 Curve("IntCal20","IntCal20.14c");

 Curve("SHCal20","SHCal20.14c");

 Mix\_Curve("Mixed","IntCal20","SHCal20",U(0,100));

 Sequence("Iruhito Sequence")

 {

 Boundary("MF Start");

 KDE\_Plot("Ribera 1–2")

 {

 Sequence("Ribera 1–2 Sequence")

 {

 R\_Date("AA75520, U4.2, Feature 8, earliest occupation surface",2493,35);

 R\_Date("AA75519, U4.2, Feature 7, occupation surface",2458,34);

 };

 };

 Boundary("MF End");

 Interval("Gap between Ribera 2 and and 3");

 Boundary("ILF Start");

 KDE\_Plot("Ribera 3–4")

 {

 Sequence()

 {

 R\_Date("D-AMS005618, U4.17, 417.24, earliest occupation surface above sterile in 4.17",2171,25);

 R\_Date("D-AMS005619, U4.15, 415.20, thin midden associated with Ribera 4 limestone wall",2135,25);

 };

 };

 KDE\_Plot("Ribera 5")

 {

 R\_Date("D-AMS005617, U4.12, 412.9, deposition associated with Ribera 5 adobe wall",2075,27);

 R\_Date("D-AMS005621, U4.15, 415.9, fill over occupation surface associated with Ribera 5",2049,29);

 R\_Date("D-AMS005616, U4.15, 415.15, hearth feature",2043,29);

 R\_Date("AA75518, U4.2, Feature 3, final Ribera occupation surface, fragmentary adobe wall",2004,40);

 };

 Boundary("ILF End");

 Interval("Gap between ILF and Post-LF");

 Boundary("Start Post LF ");

 KDE\_Plot("Post-LF")

 {

 Sequence("Sector 5 Sequence")

 {

 R\_Date("AA110492, U5.1, Level 13, earliest occupation in Sector 5 Monticulo",1372,27);

 Date("First Tiwanaku redwares");

 R\_Date("AA75516, U5.1, Feature 9, midden between levels 8 and 9",1278,33);

 R\_Date("AA75517, U5.1, Feature 8, floor between levels 7 and 8",1231,33);

 };

 };

 Boundary("End Post-LF");

 };

 };