Supplementary file

**A high-resolution chronology for the palatial complex of Xalla in Teotihuacan, Mexico, combining radiocarbon ages and archaeomagnetic dates in a Bayesian model**

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OxCal code of the Bayesian model for Xalla, Teotihuacan.

Phase("Xalla")

{

Sequence("wooden beams")

{

Boundary("start wooden beams");

Phase("wooden beams")

{

R\_Date("Beta204320", 2100, 40);

R\_Date("Ham3806", 2080, 80);

R\_Date("UNAM0404", 2060, 60);

R\_Date("Ham3804", 2040, 44);

R\_Date("Ham3807", 1980, 60);

R\_Date("Ham3805", 1940, 60);

R\_Date("UNAM0401", 1920, 70);

R\_Date("UNAM0517", 1860, 50);

R\_Date("Beta149964", 1850, 40);

};

Boundary ("end wooden beams");

};

Sequence("foundation rituals")

{

Boundary ("start foundation rituals");

Phase("foundation rituals")

{

R\_Date("Beta180341", 1850, 40);

R\_Date("Beta180347", 1830, 40);

R\_Date("Beta375486", 1830, 30);

R\_Date("Beta502689", 1850, 30);

R\_Date("Beta502691", 1840, 30);

R\_Date("Beta502692", 1820, 30);

Date("ArqueoXa13",U(AD(182),AD(190)));

};

Boundary ("end foundation rituals");

};

Sequence("morillos")

{

Boundary ("start morillos");

Phase("morillos")

{

R\_Date("Beta149962", 1790, 60);

R\_Date("Beta204319", 1770, 40);

R\_Date("UNAM0516", 1770, 50);

R\_Date("Ham3808", 1770, 90);

R\_Date("Beta149961", 1750, 40);

R\_Date("Beta159881", 1740, 60);

};

Boundary ("end morillos");

};

Sequence("Tlamimilolpa rituals")

{

Boundary ("start Tlamimilolpa rituals");

Phase("Tlamimilolpa rituals")

{

R\_Date("Beta159878", 1770, 40);

R\_Date("Beta159876", 1750, 40);

R\_Date("Beta204318", 1720, 40);

R\_Date("UNAM0519", 1720, 60);

R\_Date("Beta502690", 1720, 30);

R\_Date("Beta466856", 1720, 30);

};

Boundary ("end Tlamimilolpa rituals");

};

Sequence("new beams")

{

Boundary ("start new beams");

Phase("new beams")

{

R\_Date("Beta204317", 1680, 60);

R\_Date("UNAM0518", 1680, 50);

R\_Date("Beta159879", 1680, 60);

R\_Date("Beta149967", 1670, 40);

R\_Date("Beta159873", 1650, 60);

R\_Date("Beta180345", 1630, 50);

};

Boundary ("end new beams");

};

Sequence("Xolalpan")

{

Boundary ("start Xolalpan");

Phase("Xolalpan")

{

R\_Date("Beta315483", 1690, 30);

R\_Date("Beta375485", 1670, 30);

R\_Date("Beta159875", 1660, 60);

R\_Date("Beta204327", 1660, 40);

R\_Date("Beta375482", 1620, 30);

R\_Date("Beta159874", 1600, 60);

R\_Date("UNAM1514", 1580, 70);

R\_Date("Beta149966", 1560, 40);

R\_Date("UNAM1716", 1540, 70);

Date("ArqueoXa1,Xa6", U(AD(425),AD(453)));

Date("ArqueoX7,X8,X9", U(AD(428),AD(447)));

Date("ArqueoXa1712121", U(AD(434),AD(572)));

Date("ArqueoXa1712124", U(AD(421),AD(447)));

};

Boundary ("end Xolalpan")

{

Date("ArqueoXa2,Xa3,Xa4,Xa5", U(AD(552),AD(625));

Date("Arqueo X1,X2,X3,X4,X5", U(AD(553),AD(599));

};

};

};