**SUPPLEMENTAL MATERIAL**



**Supplemental Table 1 Objects associated with El Japón Burials**

Reproduced from the original site excavation report Proyecto de Rescate Arqueológico San Gregorio Atlapulco (Ávila López 1995).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Burial Number | Burial Type | Sex1 | Object | Count | Area of Body2 |
| 78 | Primary | M | Figurine fragment | 1 | Head |
| 82 | Primary | I | Bead | 26 | Neck |
| 160 | Primary | F\* | Bead | 2 | Head |
| 161 | Primary | M\* | Bead | 8 | Arm |
| 182 | Primary | F\* | Bead | 1 | - |
| 198 | Primary | I\* | Copper bell | 1 | Torso |
| 209 | Primary | F\* | Spindle whorl | 1 | - |
| 212 | Primary | I | Spindle whorl | 1 | - |
| 233 | Primary | F\* | Copper bell | 6 | Feet |
| 234 | Primary | M\* | Bead | 1 | - |
| 290 | Primary | M | Bead | 1 | - |
| 323 | Primary | M\* | Bead | 3 | - |
| 346 | Primary | M | Spindle whorl | 1 | Neck |
| 381 | Primary | F | Spindle whorl | 1 | Feet |
| 388 | Primary | M | Bead | 6 | - |

1. M-male, F-females, I-indeterminate. \*Age estimates on subadults (mean age-at-death <15) are not routinely assessed.

2. Omitted entries in the site report may indicate unclear association to the burial.

**OXCAL MODEL CODES**

**Model 1 Human Bone Collagen 14C Dates, OxCal Code**

Plot()

{

Sequence()

{

C\_Date(1521);

Boundary(“Start Lower Burials ”);

Phase(“Lower Burials Collagen”)

{

R\_Date(“Burial 50”, 399, 25)

{

Outlier();

};

R\_Date(“Burial 180”, 330, 25);

R\_Date(“Burial 145”, 360, 25);

R\_Date(“Burial 87”, 360, 25);

R\_Date(“Burial 90”, 299, 25);

};

Boundary(“End Lower burials”);

};

};

};

**Model 1 Collagen 14C Dates, Results**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Unmodelled | | | | Modelled | | | |
|  | 68.3% | | 95.4% | | 68.3% | | 95.4% | |
|  | From | To | From | To | From | To | From | To |
| Boundary, start |  |  |  |  | *1524* | *1578* | *1520* | *1617* |
| Burial 50 | 1449 | 1491 | 1441 | 1622 | *1448* | *1492* | *1440* | *1623* |
| Burial 180 | 1504 | 1635 | 1484 | 1639 | *1560* | *1631* | *1541* | *1639* |
| Burial 145 | 1474 | 1623 | 1457 | 1634 | *1574* | *1622* | *1548* | *1635* |
| Burial 87 | 1474 | 1622 | 1457 | 1634 | *1576* | *1623* | *1550* | *1634* |
| Burial 90 | 1522 | 1644 | 1500 | 1655 | *1554* | *1640* | *1534* | *1647* |
| Boundary, end |  |  |  |  | *1582* | *1653* | *1549* | *1730* |

A picture containing text, weapon, screenshot, knife

Description automatically generated

**Model 2 Human Bone Bioapatite 14C Dates, OxCal Code**

Plot()

{

Sequence()

{

C\_Date(1521);

Boundary(“Start Lower Burials ”);

Phase(“Lower Burials Bioapatite”)

{

R\_Date(“Burial 50”, 460, 30)

{

Outlier();

};

R\_Date(“Burial 180”, 400, 35);

R\_Date(“Burial 145”, 310, 25);

R\_Date(“Burial 87”, 400, 35);

R\_Date(“Burial 90”, 360, 40);

};

Boundary(“End Lower burials”);

};

};

};

**Model 2 Bioapatite 14C Dates, Results**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Unmodelled | | | | Modelled | | | |
|  | 68.3% | | 95.4% | | 68.3% | | 95.4% | |
|  | From | To | From | To | From | To | From | To |
| Boundary, start |  |  |  |  | *1548* | *1605* | *1523* | *1613* |
| Burial 50 | 1427 | 1452 | 1412 | 1471 | *1427* | *1452* | *1412* | *1471* |
| Burial 180 | 1446 | 1615 | 1435 | 1631 | *1589* | *1620* | *1562* | *1631* |
| Burial 145 | 1521 | 1641 | 1495 | 1647 | *1569* | *1635* | *1544* | *1643* |
| Burial 87 | 1446 | 1615 | 1435 | 1631 | *1590* | *1620* | *1562* | *1631* |
| Burial 90 | 1468 | 1628 | 1455 | 1636 | *1580* | *1624* | *1554* | *1636* |
| Boundary, end |  |  |  |  | *1598* | *1649* | *1564* | *1712* |

A picture containing chart

Description automatically generated

**Model 3 Combined Collagen and Bioapatite 14C Dates, OxCal Code**

Plot()

{

Sequence()

{

C\_Date(1521);

Boundary(“Start Lower Burials ”);

Phase(“Lower Bur. Collagen Bioapatite Combined”)

{

R\_Combine(“Bur. 50”)

{

R\_Date(“Burial 50”, 399, 25);

R\_Date(“Burial 50”, 460, 30);

};

Outlier();

};

R\_Combine(“Bur. 180”)

{

R\_Date(“Burial 180”, 330, 25);

R\_Date(“Burial 180”, 400, 35);

};

R\_Combine(“Bur. 145”)

{

R\_Date(“Burial 145”, 360, 25);

R\_Date(“Burial 145”, 310, 25);

};

R\_Combine(“Bur. 87”)

{

R\_Date(“Burial 87”, 360, 25);

R\_Date(“Burial 87”, 400, 35);

};

R\_Combine(“Bur. 90”)

{

R\_Date(“Burial 90”, 299, 25);

R\_Date(“Burial 90”, 360, 40);

};

Boundary(“End Lower Burials”);

};

};

};

**Model 3 Combined Collagen and Bioapatite 14C Dates, Results**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Unmodelled | | | | Modelled | | | |
|  | 68.3% | | 95.4% | | 68.3% | | 95.4% | |
|  | From | To | From | To | From | To | From | To |
| Boundary, start |  |  |  |  | *1540* | *1595* | *1522* | *1615* |
| Burial 50 | 1442 | 1465 | 1434 | 1484 | *1443* | *1465* | *1434* | *1483* |
| Burial 180 | 1480 | 1623 | 1462 | 1634 | *1583* | *1621* | *1560* | *1631* |
| Burial 145 | 1503 | 1632 | 1487 | 1637 | *1571* | *1629* | *1554* | *1635* |
| Burial 87 | 1460 | 1616 | 1453 | 1627 | *1588* | *1620* | *1563* | *1629* |
| Burial 90 | 1521 | 1637 | 1495 | 1644 | *1564* | *1633* | *1545* | *1640* |
| Boundary, end |  |  |  |  | *1593* | *1645* | *1564* | *1709* |

Diagram

Description automatically generated