

## [Supplementary material]

### A tale of two tells: dating the Çatalhöyük West Mound

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### **West Mound overall model (this paper) compared with East Mound area TP model (reconstructed from Table 1 and Figure 2 in Marciniak *et al.* 2015).**

Modelled dates/intervals included in Figures 8 and 9 are shown in bold.

```
Plot( )
{
Sequence( "West Mound")
{
Boundary( "Start West")
{
color="blue";
};
Phase( "West Mound")
{
Sequence("Trench 7 (model B)")
{
After("disarticulated")
{
R_Date("OxA-27668", 7205, 36);
R_Date("OxA-27669", 7043, 36);
};
R_Date("SUERC-59350", 6877, 32);
After("disarticulated")
```

```
{
  R_Date("OxA-27670", 7074, 36);
  R_Date("OxA-27671", 7013, 40);
  R_Date("OxA-27672", 7247, 36);
};
R_Date("SUERC-59349", 6782, 34);
};
Phase("Trench 5")
{
  Sequence("B.125/98")
  {
    Phase("B.125")
    {
      R_Date("OxA-29615", 7007, 36);
    };
    Phase("B.98")
    {
      R_Date("OxA-29614", 6944, 36);
      R_Date("OxA-29613", 6912, 36);
    };
  };
  Sequence( B.106)
  {
    Phase("15365")
    {
      R_Date("OxA-27666", 6992, 36);
      R_Date("OxA-27665", 6966, 37);
    };
    Phase("B.106 upper fill")
    {
      R_Combine( Sample29)
      {
        R_Date("OxA-27663", 6918, 38);
        R_Date("OxA-27664", 6941, 37);
      };
      R_Date("OxA-27662", 6950, 36);
    };
  };
  Phase("B.105")
  {
    R_Date("OxA-27667", 7059, 37);
    R_Date("OxA-27744", 6986, 36);
  };
};
```

```

Phase( "Trench 2")
{
  R_Date("OxA-11760", 6904, 39);
  R_Date("OxA-11761", 6730, 40);
  R_Date("OxA-11764", 6707, 38);
  R_Date("OxA-11762", 6662, 38);
  R_Date("OxA-11763", 6626, 36);
};
Phase( "Trench 1")
{
  R_Date("OxA-11757", 7103, 39);
  R_Date("OxA-11751", 7070, 45);
  R_Date("OxA-11750", 7065, 40);
  R_Date("OxA-11755", 7049, 39);
  R_Date("OxA-11759", 7028, 39);
  R_Date("OxA-11758", 7028, 37);
  R_Date("OxA-12089", 6990, 40);
  R_Date("OxA-11774", 6969, 36);
  R_Date("OxA-11754", 6945, 39);
  R_Date("OxA-11756", 6937, 38);
  R_Date("OxA-11773", 6915, 34);
};
Phase("Core CH96W")
{
  R_Date("AA-27981", 7040, 40);
  R_Date("PL-980524A", 6940, 80);
};
};
Boundary( "End West");
};
Sequence("TP Neolithic")
{
  Boundary("start TP Neolithic");
  Phase("TP Neolithic")
  {
    Sequence("TP_spine")
    {
      Phase("B.81")
      {
        R_Date("UCIAMS-96505", 7430, 25);
      };
      Date("end B.81/start Sp. 420");
      Phase("Sp.420")
      {

```

```

R_Date("Poz-40795", 7380, 60);
};
Date("end Sp.420/start B.74");
After("B.74")
{
};
Date("end_B.74/start_B.72");
Phase("B.72")
{
  After("F.2867")
  {
    R_Date("Poz-24012", 7270, 50);
  };
  Sequence()
  {
    Phase("F.2888")
    {
      R_Date("Poz-40782", 7360, 50);
      R_Date("UCIAMS-96506", 7350, 25);
    };
    Phase()
    {
      R_Date("Poz-40796", 7310, 50);
      Sequence()
      {
        Phase()
        {
          Phase("F.3182")
          {
            R_Date("Poz-40784", 7450, 50);
            R_Date("UCIAMS-96508", 7405, 25);
          };
          After("F.3141; unidentified charcoal")
          {
            R_Date("Poz-24009", 7700, 50);
          };
        };
      };
    Phase("F.1940")
    {
      R_Date("Poz-40785", 7410, 50);
      R_Date("Poz-19007", 7440, 50);
      R_Date("UCIAMS-96509", 7430, 30);
    };
  };
};

```

```

};
};
};
Date("end B.72/start Sp.327");
Phase("Sp.327")
{
  R_Date("Poz-40793", 7250, 50);
  R_Date("Poz-40794", 7250, 50);
};
Date("end Sp.327/start B.73");
Phase("B.73")
{
  Phase("F.2854")
  {
    R_Date("UCIAMS-96507", 7310, 35);
    After("residual")
    {
      R_Date("Poz-40783", 7460, 50);
    };
  };
  Phase("F.1943")
  {
    R_Date("UCIAMS-96510", 7335, 25);
  };
};
Date("end B.73/start B.62");
After("B.62")
{
  R_Date("Poz-19006", 7280, 50);
  R_Date("UCIAMS-96511", 7445, 30);
  R_Date("Poz-19005", 7460, 50);
};
Date("end B.62/start B.61");
Sequence("B.61.1")
{
  After("F.3132; unidentified charcoal")
  {
    R_Date("Poz-13573", 7620, 50);
    R_Date("Poz-19004", 7450, 50);
  };
  After("unidentified charcoal")
  {
    R_Date("Poz-19001", 7430, 50);
  };
};

```

```

Phase("F.1938")
{
  R_Date("UCIAMS-96512", 7295, 25);
  After("residual")
  {
    R_Date("Poz-40789", 7450, 50);
  };
};
Sequence("B.61.3")
{
  After("F.3135; unidentified charcoal")
  {
    R_Date("Poz-13571", 7390, 40);
    R_Date("Poz-19002", 7460, 70);
  };
  Phase()
  {
    After("After F.1916; unidentified charcoal")
    {
      R_Date("Poz-13696", 7530, 50);
    };
    Phase("F.1918")
    {
      R_Date("Poz-40790", 7290, 50);
      R_Date("UCIAMS-96513", 7300, 25);
      R_Date("Poz-40792", 7270, 50);
      R_Date("UCIAMS-96514", 7335, 30);
    };
  };
};
Date("end B.61/start Sp.248");
Phase("Sp.428")
{
  R_Date("Poz-13700", 7150, 50);
  Phase("articulated")
  {
    R_Date("UCIAMS-113462", 7025, 20);
    R_Date("UCIAMS-113461", 7175, 20);
  };
  After("disarticulated")
  {
    R_Date("Poz-13659", 7090, 50);
    R_Date("Poz-19104", 6990, 40);
  };
};

```

```

R_Date("Poz-19075", 7180, 40);
};
};
Date("end Sp.248 (burial)")
{
color="orange";
};
};
Sequence("TP 2nd string")
{
Phase("Sp.439")
{
R_Date("UCIAMS-113459", 7265, 25);
};
After("Sp.431")
{
R_Date("Poz-18999", 7183, 55);
};
After("Sp.414")
{
R_Date("Poz-7451", 7190, 40);
R_Date("Poz-7452", 7360, 50);
};
Phase("Sp.412")
{
R_Date("UCIAMS-113460", 7130, 20);
};
Date("end Sp.412/start B.33");
Phase("B.33")
{
R_Combine("7878")
{
R_Date("Poz-7449", 7100, 50);
R_Date("UCIAMS-113463", 7145, 20);
};
After("unidentified charcoal")
{
R_Date("Poz-7450", 7210, 50);
};
};
};
Date("end B.33 (domestic)")
{
color="orange";
};
};

```

```

};
};
Boundary("end East Mound occupation")
{
  color="orange";
};
Phase("Sp.410")
{
  R_Date("Poz-40788", 6870, 50)
  {
    color="orange";
  };
  R_Date("Poz-40786", 6720, 40)
  {
    color="orange";
  };
};
};
Difference("end East/start West", "Start West", "end East Mound occupation");
Difference("end Sp.248/start West", "Start West", "end Sp.248");
Difference("end B.88/start West", "Start West", "end B.33");
};

```

## References

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