
Supplementary information

Monumental architecture at Aguada Fénix and the rise of Maya civilization

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Supplementary Information

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Supplementary Table 2 | Depths of the layers found in excavations and auger tests. For auger tests, we interpret marl or soft limestone as the surface of bedrock.

Op/ Auger test	Depth (m)			Note
	Middle Preclassic	Marl/soft limestone	Hard Rock	
Excavation				
NR1A				Mound; did not reach bedrock.
NR2A				Soil pit in a reservoir
NR3A	0.4	7.5		
NR4A	0.5	2.7		Causeway
NR5A	0.7	3.9		
NR5B				Continuing excavation
NR6A	0.5	2.6		Causeway
NR7A	0.4	3.0		Edge platform
NR7B	0.3	1.5		
NR7C	0.4	2.2		Edge platform
NR8A	0.4			Megalithic structure
NR9A		3.0		North altar
Auger test				
1		8.5	9.9	
2				Blocked by a chert nodule at 1.2 m.
3		3.8	5.5	
4		1.5	2.3	Placed next to Op NR7B for stratigraphic comparison.
5				Blocked by hard rock at 1.4 m.
6			1.5	Confirmed with a test pit.
7		2.7	3.3	
8		4.5	5.7	
9		8.4	9.5	
10		6.1	6.5	
11		7.0/15.0	19.5	19.5 m appears too low for the surface of bedrock.

Supplementary Table 3 | Frequency of obsidian artifacts by sources. Source assignments are based on elemental data analyzed with a portable XRF (Olympus Delta Premium). El Chayal, Ixtepeque and San Martín Jilotepeque are all located in the Guatemalan highlands. See Fig. 1 for the locations of La Carmelita, Rancho Zaragoza and El Tiradero.

Period	Site	El Chayal	Ixtepeque	San Martín Jilotepeque	Total
Early Preclassic (1,250-1,000 BC)					
	Aguada Fénix centre	1			1
Early Middle Preclassic (1,000-700 BC)					
	Aguada Fénix centre	13	3		16
	Aguada Fénix periphery	4			4
	La Carmelita	11	1	1	13
Late Middle Preclassic (700-350 BC)					
	Aguada Fénix periphery	1			1
	La Carmelita			1	1
Late-Terminal Preclassic (350 BC-AD 250)					
	Aguada Fénix centre	13			13
	Aguada Fénix periphery	5			5
	El Tiradero	15		10	25
Late-Terminal Classic (AD 600-950)					
	Aguada Fénix centre	142		3	145
	Aguada Fénix periphery	1			1
	El Tiradero	3		1	4
	Rancho Zaragoza	1		1	2
Unclear					
	Aguada Fénix centre	7	1		8
	Aguada Fénix periphery	10			10
	La Carmelita	1			1
Total		228	5	17	250

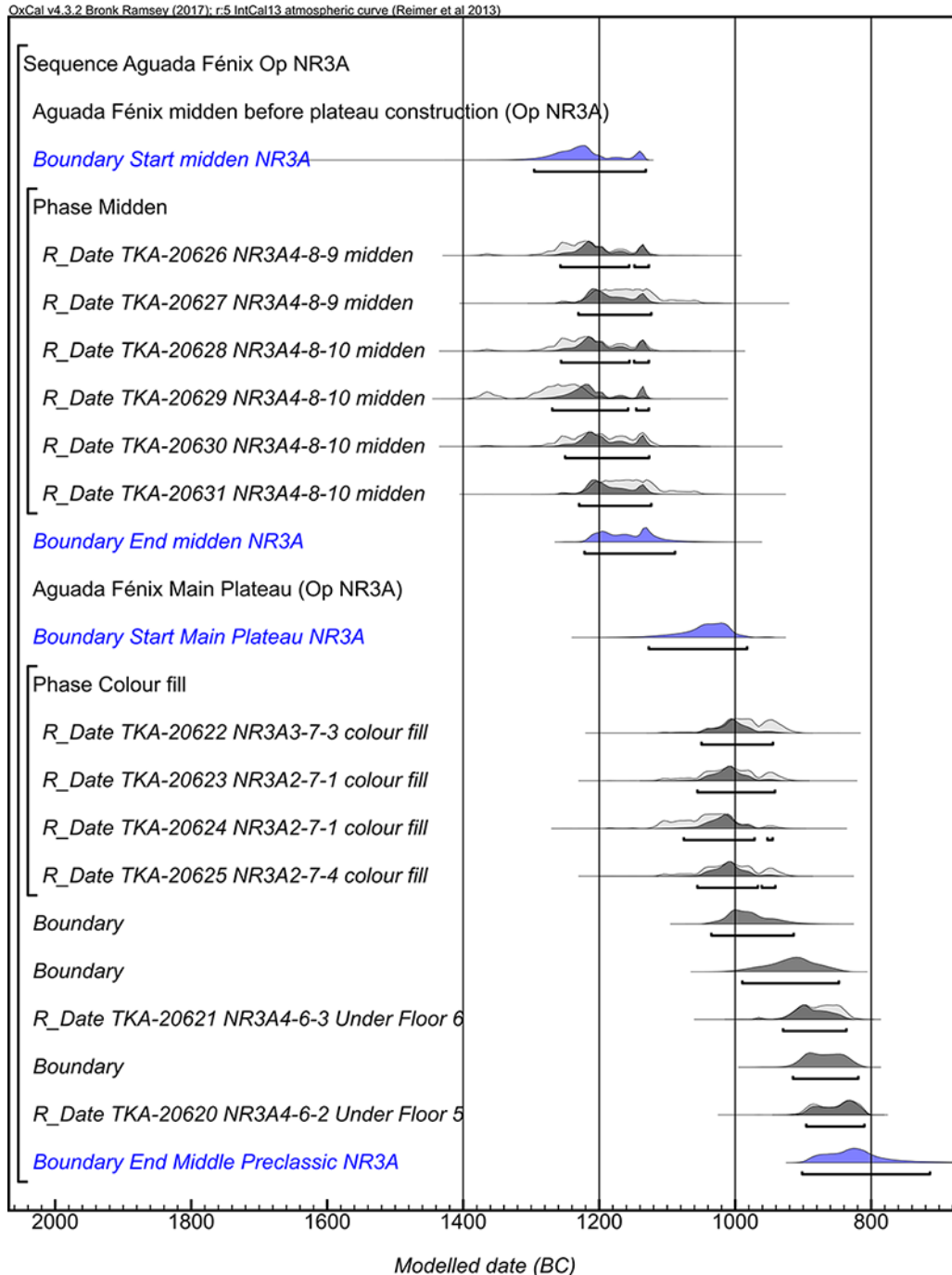
Supplementary Table 4 | Frequency of identified starch grains on grinding stones found in Middle Preclassic contexts. Starch grain analysis does not provide quantitative data on the intensity or scale of the use of specific crops. Nonetheless, the results of the analysis accord with the assumption that the use of maize was common between 1,000 and 800 BC, when the Main Plateau of Aguada Fénix was built.

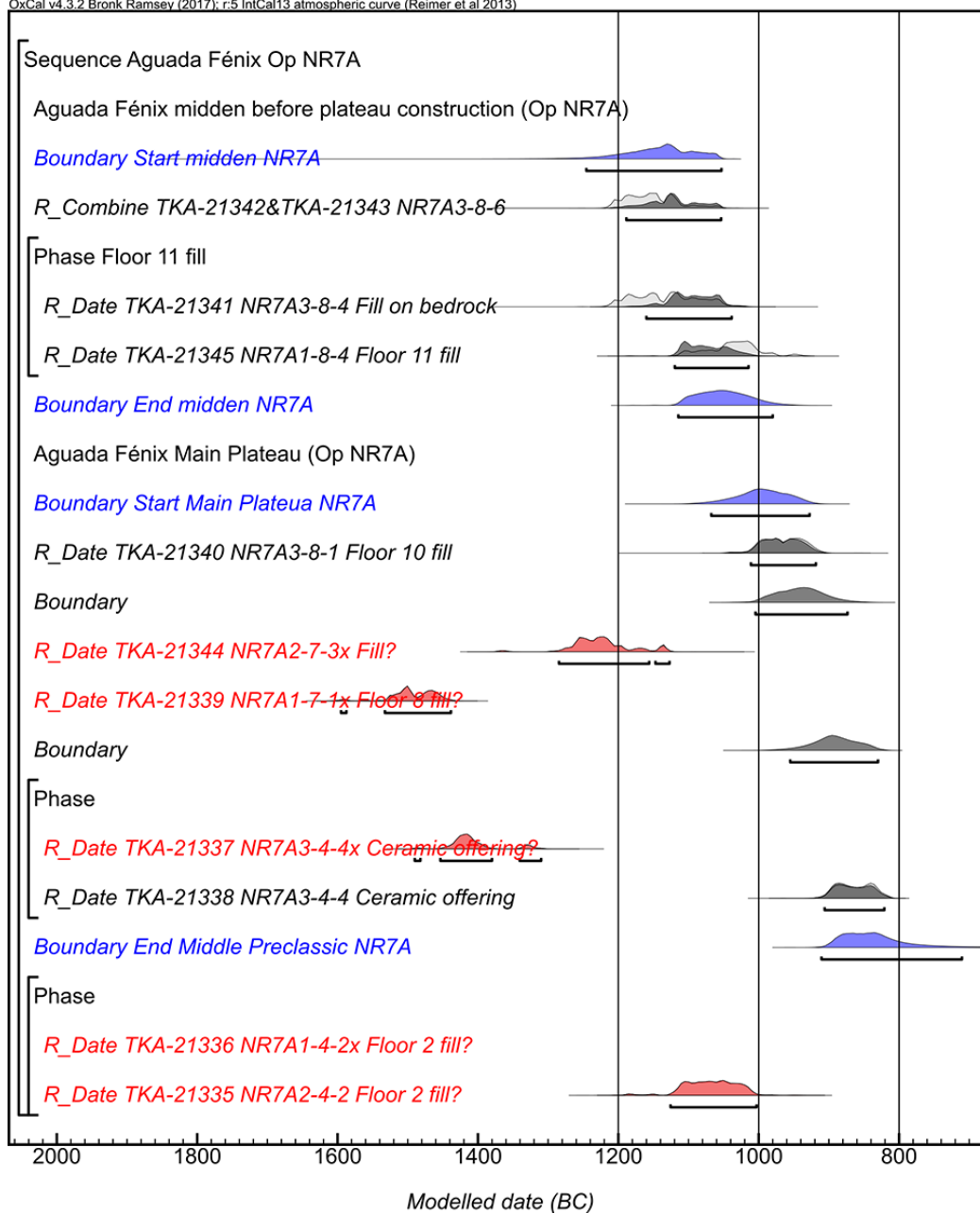
Site	Lot	Bag #	Context	Date	Plant identification*						
					Artifact	Maize	Chili	Bean	Manioc	Achira	Unidentified
Aguada Fénix	NR5A1-7-4	151	Plateau Floor 21 fill	c. 1,000 BC	<i>Metate</i>						
Aguada Fénix	NR5A2-7-3	143	Plateau Floor 21 fill	c. 1,000 BC	<i>Metate</i>	7	3				4
Aguada Fénix	NR4A1-7-7	86	Causeway Floor 19 fill	1,000-900 BC	<i>Mano</i>	2					1
Aguada Fénix	NR4A1-7-7	88	Causeway Floor 19 fill	1,000-900 BC	<i>Metate</i>	2			1	1	3
La Carmelita	LC1B1-5-8	45	E Group Floor 3 fill	c. 900 BC	<i>Mano</i>		1				
La Carmelita	LC1B1-0-0	4	E Group Disturbed layer	1,000-750 BC?	<i>Mano</i>	1	1	1			1

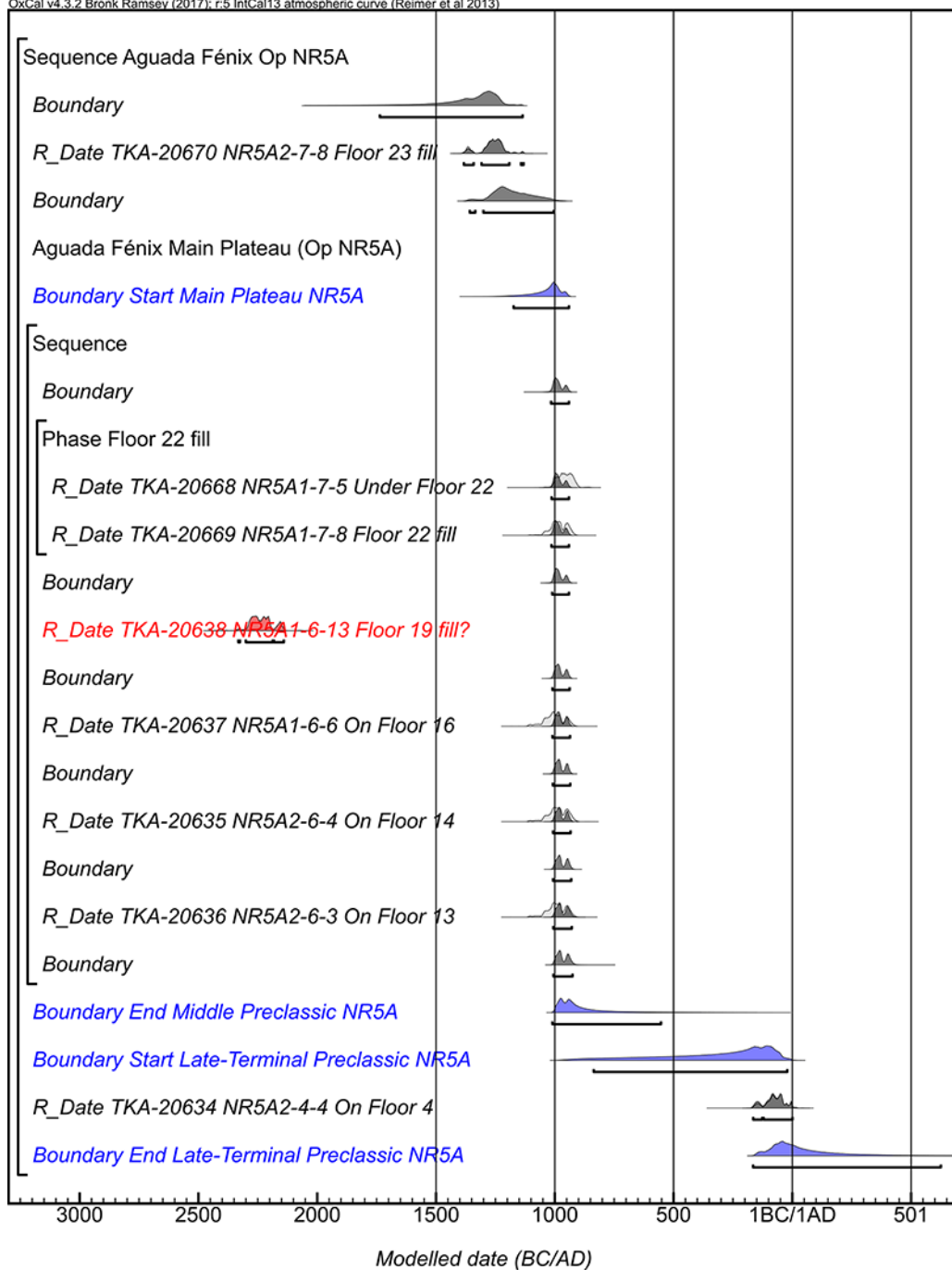
*Maize = *Zea mays*; chili = *Capsicum* sp.; bean = *Phaseolus* sp.; manioc = *Manihot esculenta*; achira (tuber) = *Canna* sp.

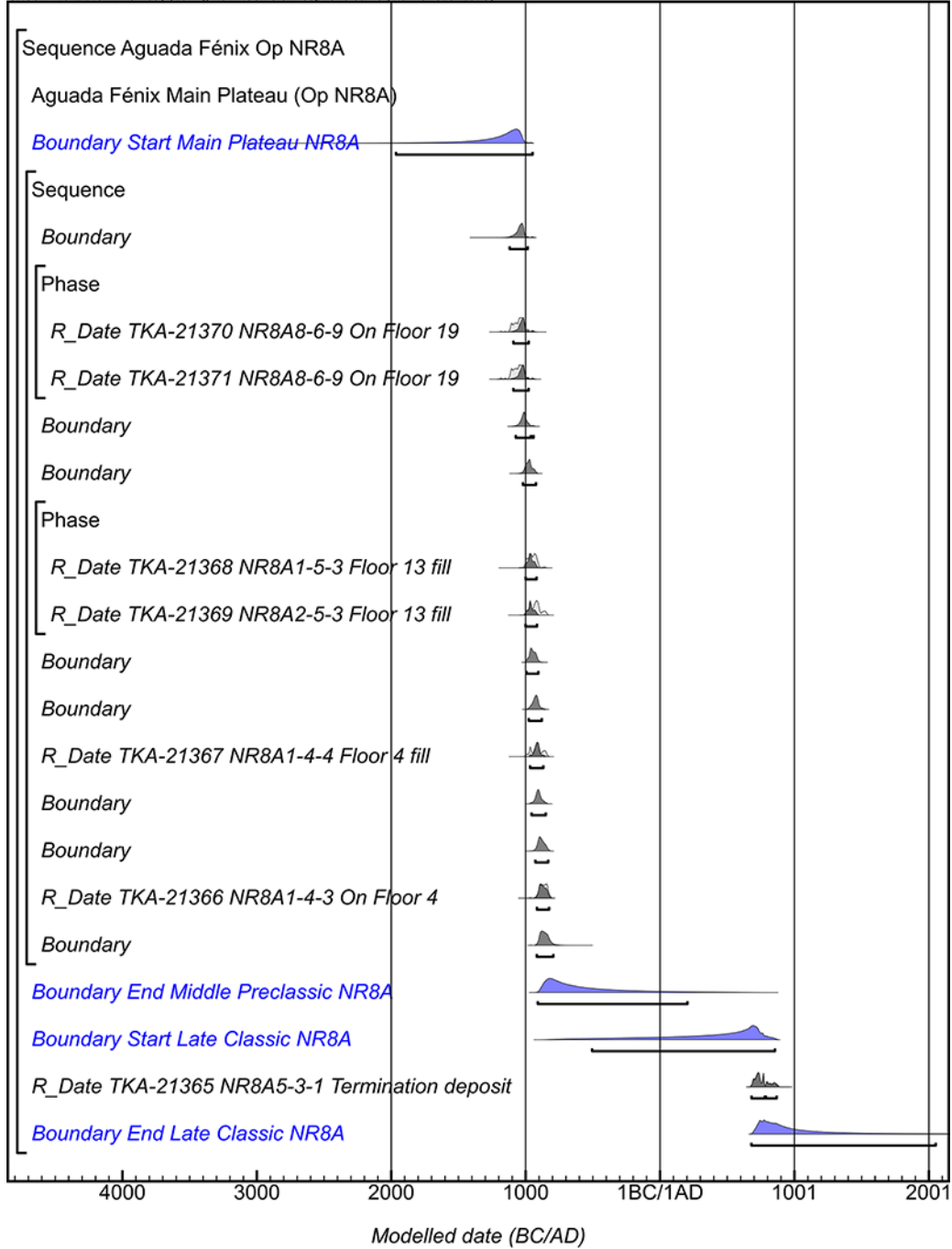
Supplementary Data | Oxcal output of Model 1

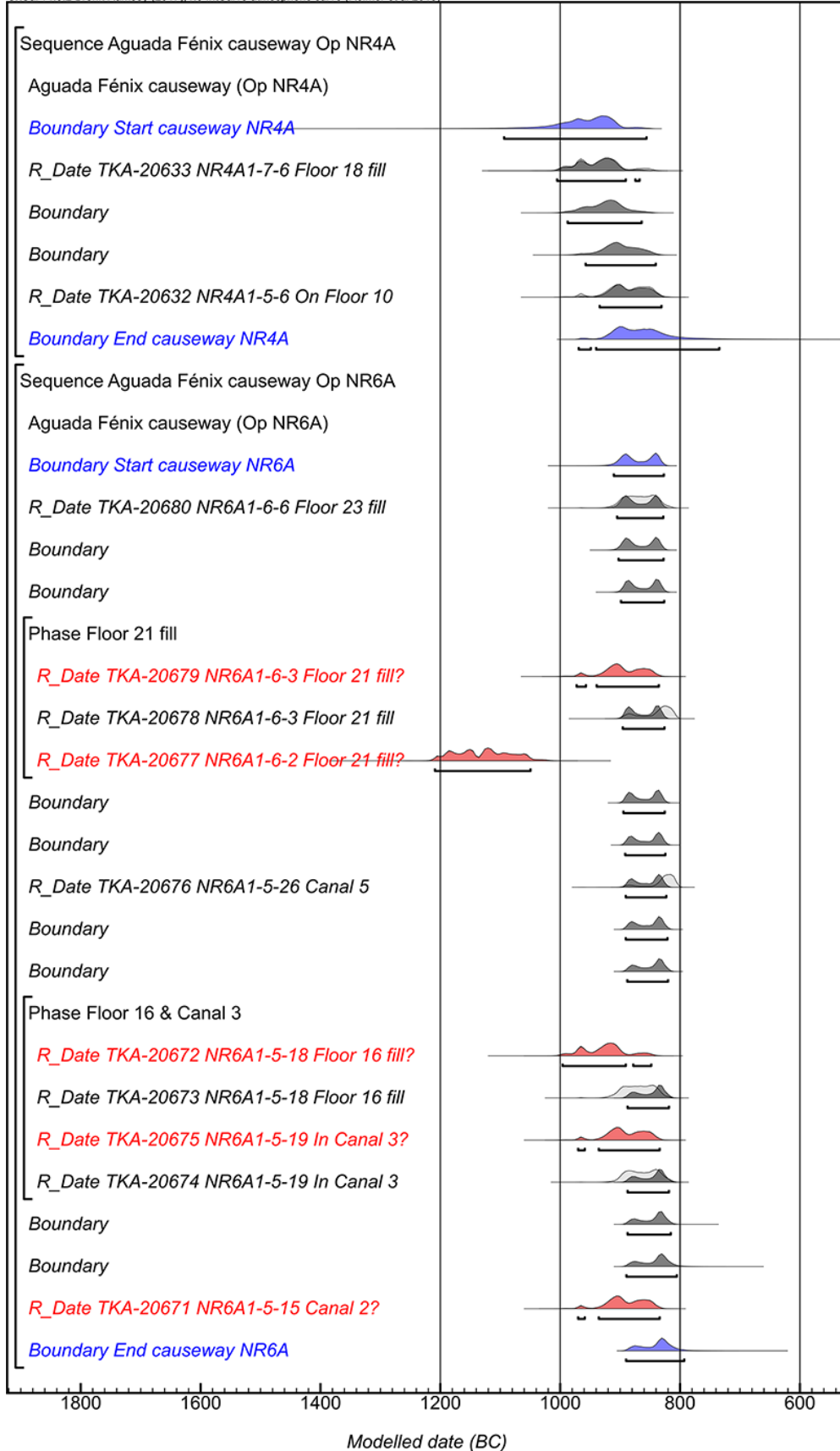
Boundary dates are indicated in blue, and outliers are shown in red.

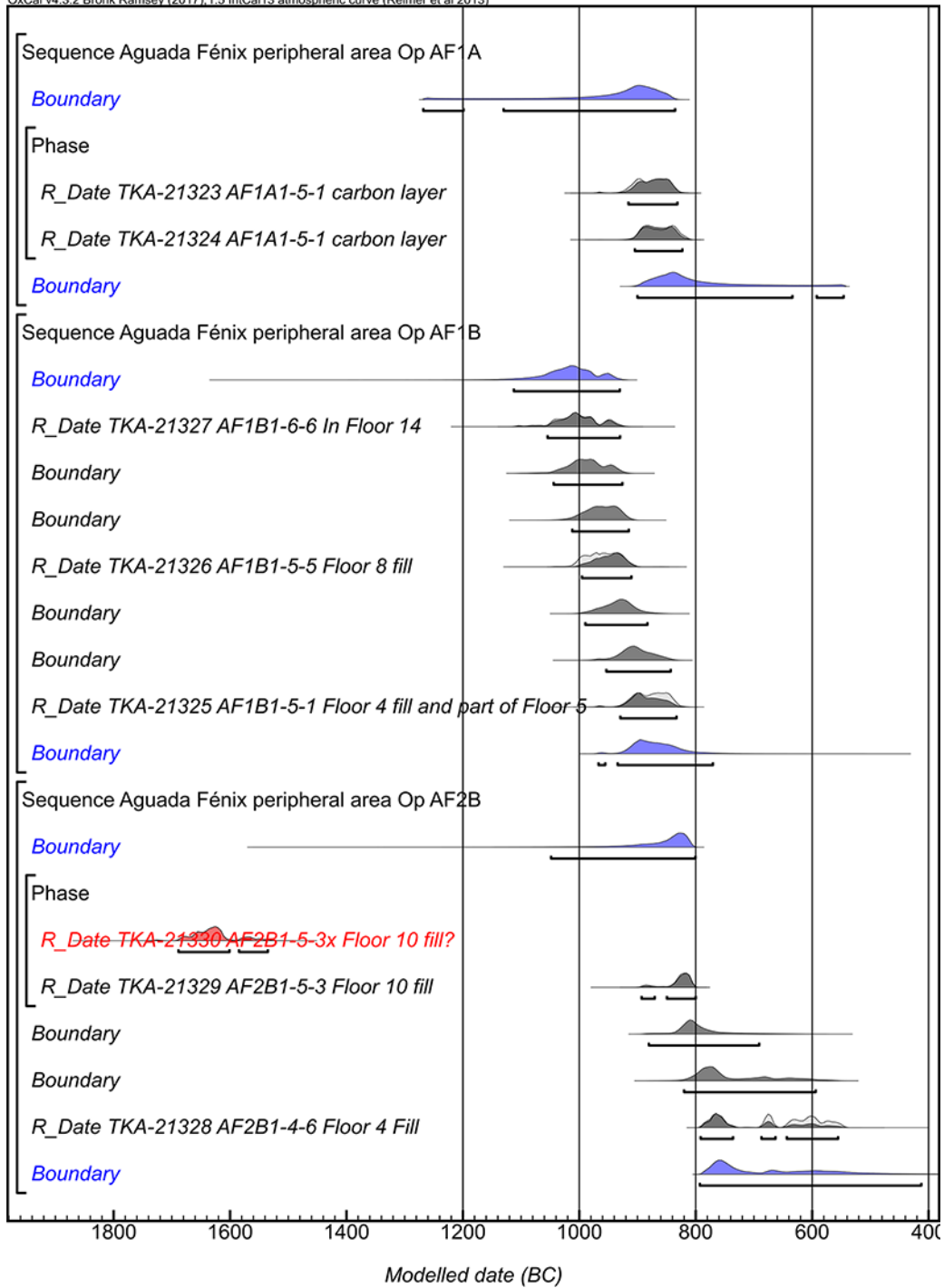


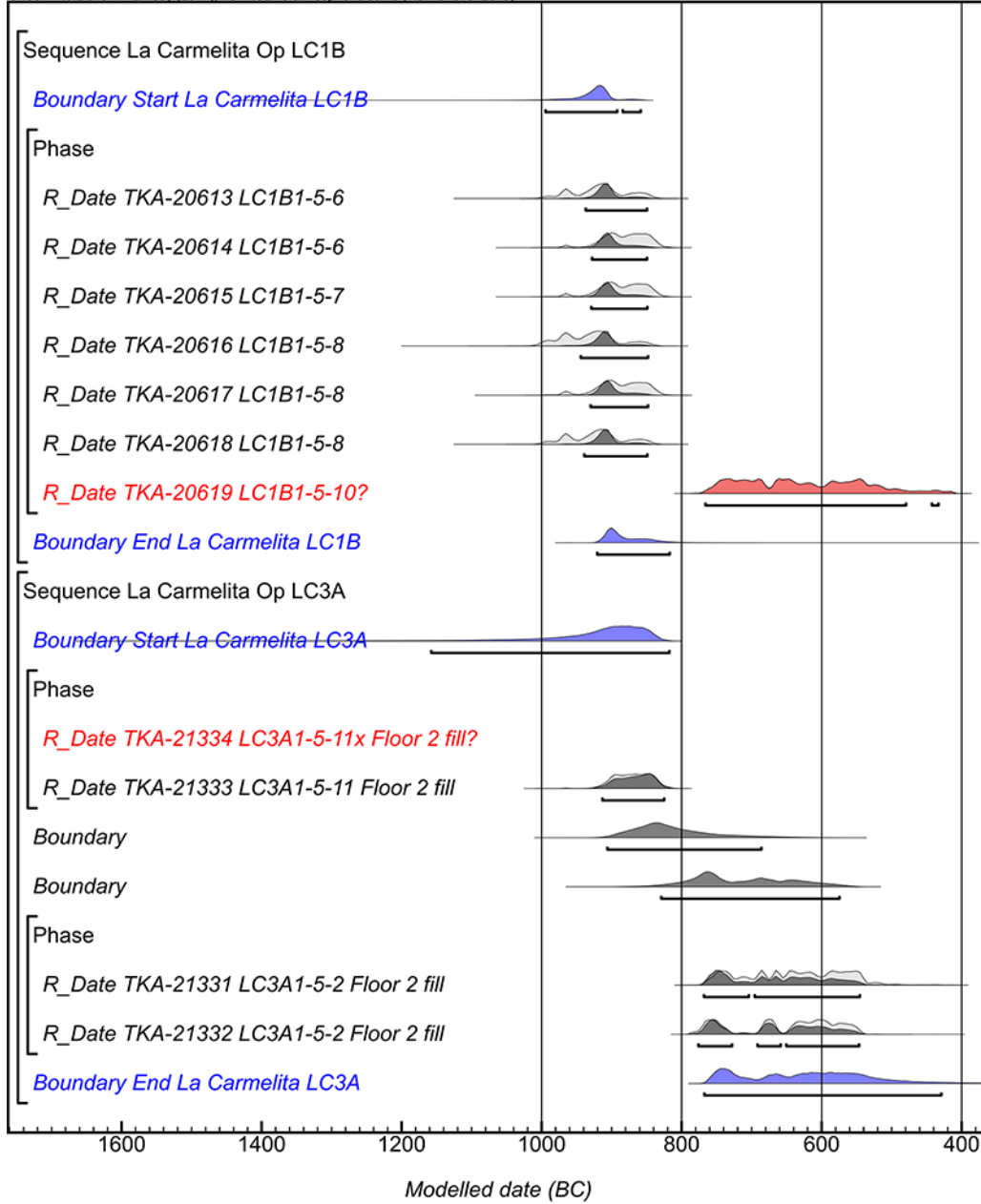












Supplementary Method | Oxcal code for the analysis of radiocarbon dates.

Model 1. Manual rejection of outliers.

```
Plot()
{
  Sequence("Aguada Fénix Op NR3A")
  {
    Label("Aguada Fénix midden before plateau construction (Op NR3A)");
    Boundary("Start midden NR3A");
    Phase("Midden")
    {
      R_Date("TKA-20626 NR3A4-8-9 midden", 2989, 25);
      R_Date("TKA-20627 NR3A4-8-9 midden", 2951, 24);
      R_Date("TKA-20628 NR3A4-8-10 midden", 2987, 26);
      R_Date("TKA-20629 NR3A4-8-10 midden", 3016, 24);
      R_Date("TKA-20630 NR3A4-8-10 midden", 2977, 28);
      R_Date("TKA-20631 NR3A4-8-10 midden", 2949, 23);
    };
    Boundary("End midden NR3A");
    Label("Aguada Fénix Main Plateau (Op NR3A)");
    Boundary("Start Main Plateau NR3A");
    Phase("Colour fill")
    {
      R_Date("TKA-20622 NR3A3-7-3 colour fill", 2832, 23);
      R_Date("TKA-20623 NR3A2-7-1 colour fill", 2848, 24);
      R_Date("TKA-20624 NR3A2-7-1 colour fill", 2869, 24);
      R_Date("TKA-20625 NR3A2-7-4 colour fill", 2848, 23);
    };
    Boundary();
    Boundary();
    R_Date("TKA-20621 NR3A4-6-3 Under Floor 6", 2743, 23);
    Boundary();
    R_Date("TKA-20620 NR3A4-6-2 Under Floor 5", 2701, 26);
    Boundary("End Middle Preclassic NR3A");
  };
  Sequence("Aguada Fénix Op NR7A")
  {
    Label("Aguada Fénix midden before plateau construction (Op NR7A)");
    Boundary("Start midden NR7A");
    R_Combine("TKA-21342&TKA-21343 NR7A3-8-6")
    {
      R_Date("TKA-21342 NR7A3-8-6* Cache NR2", 2941, 21);
      R_Date("TKA-21343 NR7A3-8-6* Cache NR2", 2940, 19);
    };
    Phase("Floor 11 fill")
    {
      R_Date("TKA-21341 NR7A3-8-4 Fill on bedrock", 2929, 21);
      R_Date("TKA-21345 NR7A1-8-4 Floor 11 fill", 2867, 19);
    };
    Boundary("End midden NR7A");
    Label("Aguada Fénix Main Plateau (Op NR7A)");
    Boundary("Start Main Plateau NR7A");
    R_Date("TKA-21340 NR7A3-8-1 Floor 10 fill", 2817, 19);
    Boundary();
    R_Date("TKA-21344 NR7A2-7-3x Fill", 2994, 20)
    {
      Outlier();
    };
    R_Date("TKA-21339 NR7A1-7-1x Floor 8 fill", 3230, 20)
    {
      Outlier();
    };
    Boundary();
    Phase()
    {
      R_Date("TKA-21337 NR7A3-4-4x Ceramic offering", 3136, 21)
      {
        Outlier();
      };
      R_Date("TKA-21338 NR7A3-4-4 Ceramic offering", 2718, 19);
    };
    Boundary("End Middle Preclassic NR7A");
    Phase()
    {
      R_Date("TKA-21336 NR7A1-4-2x Floor 2 fill", 4992, 22)
      {
        Outlier();
      };
      R_Date("TKA-21335 NR7A2-4-2 Floor 2 fill", 2889, 19)
      {
        Outlier();
      };
    };
    Sequence("Aguada Fénix Op NR5A")
    {
      Boundary();
      R_Date("TKA-20670 NR5A2-7-8 Floor 23 fill", 3017, 23);
      Boundary();
      Label("Aguada Fénix Main Plateau (Op NR5A)");
      Boundary("Start Main Plateau NR5A");
      sequence()
      {
        Boundary();
        Phase("Floor 22 fill")
        {
          R_Date("TKA-20668 NR5A1-7-5 Under Floor 22", 2805, 21);
          R_Date("TKA-20669 NR5A1-7-8 Floor 22 fill", 2834, 20);
        };
        Boundary();
        R_Date("TKA-20638 NR5A1-6-13 Floor 19 fill", 3800, 25)
        {
          Outlier();
        };
        Boundary();
        R_Date("TKA-20637 NR5A1-6-6 On Floor 16", 2845, 23);
        Boundary();
        R_Date("TKA-20635 NR5A2-6-4 On Floor 14", 2835, 25);
        Boundary();
        R_Date("TKA-20636 NR5A2-6-3 On Floor 13", 2838, 23);
        Boundary();
      };
      Boundary("End Middle Preclassic NR5A");
      Boundary("Start Late-Terminal Preclassic NR5A");
      R_Date("TKA-20634 NR5A2-4-4 On Floor 4", 2055, 22);
      Boundary("End Late-Terminal Preclassic NR5A");
    };
    Sequence("Aguada Fénix Op NR8A")
    {
      Label("Aguada Fénix Main Plateau (Op NR8A)");
      Boundary("Start Main Plateau NR8A");
      Sequence()
      {
        Boundary();
        Phase()
        {
          R_Date("TKA-21370 NR8A8-6-9 On Floor 19", 2874, 22);
          R_Date("TKA-21371 NR8A8-6-9 On Floor 19", 2879, 22);
        };
      };
    };
  };
}
```

```

Boundary();
Boundary();
Phase()
{
  R_Date("TKA-21368 NR8A1-5-3 Floor 13 fill", 2800, 22);
  R_Date("TKA-21369 NR8A2-5-3 Floor 13 fill", 2781, 25);
};
Boundary();
Boundary();
R_Date("TKA-21367 NR8A1-4-4 Floor 4 fill", 2772, 24);
Boundary();
Boundary();
R_Date("TKA-21366 NR8A1-4-3 On Floor 4", 2728, 24);
Boundary();
};
Boundary("End Middle Preclassic NR8A");
Boundary("Start Late Classic NR8A");
R_Date("TKA-21365 NR8A5-3-1 Termination deposit", 1242,
25);
Boundary("End Late Classic NR8A");
};
Sequence("Aguada Fénix causeway Op NR4A")
{
  Label("Aguada Fénix causeway (Op NR4A)");
  Boundary("Start causeway NR4A");
  R_Date("TKA-20633 NR4A1-7-6 Floor 18 fill", 2785, 23);
  Boundary();
  Boundary();
  R_Date("TKA-20632 NR4A1-5-6 On Floor 10", 2753, 23);
  Boundary("End causeway NR4A");
};
Sequence("Aguada Fénix causeway Op NR6A")
{
  Label("Aguada Fénix causeway (Op NR6A)");
  Boundary("Start causeway NR6A");
  R_Date("TKA-20680 NR6A1-6-6 Floor 23 fill", 2726, 20);
  Boundary();
  Boundary();
  Phase("Floor 21 fill")
  {
    R_Date("TKA-20679 NR6A1-6-3 Floor 21 fill", 2759, 20)
    {
      Outlier();
    };
    R_Date("TKA-20678 NR6A1-6-3 Floor 21 fill", 2689, 21);
    R_Date("TKA-20677 NR6A1-6-2 Floor 21 fill", 2927, 20)
    {
      Outlier();
    };
  };
  Boundary();
  Boundary();
  R_Date("TKA-20676 NR6A1-5-26 Canal 5", 2677, 20);
  Boundary();
  Boundary();
  Phase("Floor 16 & Canal 3")
  {
    R_Date("TKA-20672 NR6A1-5-18 Floor 16 fill", 2778, 20)
    {
      Outlier();
    };
    R_Date("TKA-20673 NR6A1-5-18 Floor 16 fill", 2730, 20);
    R_Date("TKA-20675 NR6A1-5-19 In Canal 3", 2756, 20)
    {
      Outlier();
    };
    R_Date("TKA-20674 NR6A1-5-19 In Canal 3", 2718, 20);
  };
  Boundary();
  Boundary();
  R_Date("TKA-20671 NR6A1-5-15 Canal 2", 2756, 20)
  {
    Outlier();
  };
  Boundary("End causeway NR6A");
};
Sequence("Aguada Fénix peripheral area Op AF1A")
{
  Boundary();
  Phase()
  {
    R_Date("TKA-21323 AF1A1-5-1 carbon layer", 2742, 19);
    R_Date("TKA-21324 AF1A1-5-1 carbon layer", 2717, 19);
  };
  Boundary();
};
Sequence("Aguada Fénix peripheral area Op AF1B")
{
  Boundary();
  R_Date("TKA-21327 AF1B1-6-6 In Floor 14", 2847, 19);
  Boundary();
  Boundary();
  R_Date("TKA-21326 AF1B1-5-5 Floor 8 fill", 2809, 19);
  Boundary();
  Boundary();
  R_Date("TKA-21325 AF1B1-5-1 Floor 4 fill and part of Floor
5", 2742, 20);
  Boundary();
};
Sequence("Aguada Fénix peripheral area Op AF2B")
{
  Boundary();
  Phase()
  {
    R_Date("TKA-21330 AF2B1-5-3x Floor 10 fill", 3340, 21)
    {
      Outlier();
    };
    R_Date("TKA-21329 AF2B1-5-3 Floor 10 fill", 2678, 19);
  };
  Boundary();
  Boundary();
  R_Date("TKA-21328 AF2B1-4-6 Floor 4 Fill", 2519, 19);
  Boundary();
};
Sequence("La Carmelita Op LC1B")
{
  Boundary("Start La Carmelita LC1B");
  Phase()
  {
    R_Date("TKA-20613 LC1B1-5-6", 2772, 23);
    R_Date("TKA-20614 LC1B1-5-6", 2746, 23);
    R_Date("TKA-20615 LC1B1-5-7", 2750, 23);
    R_Date("TKA-20616 LC1B1-5-8", 2782, 26);
    R_Date("TKA-20617 LC1B1-5-8", 2751, 24);
    R_Date("TKA-20618 LC1B1-5-8", 2775, 23);
    R_Date("TKA-20619 LC1B1-5-10", 2469, 25)
    {
      Outlier();
    };
  };
  Boundary("End La Carmelita LC1B");
};
Sequence("La Carmelita Op LC3A")
{
  Boundary("Start La Carmelita LC3A");
  Phase()
  {
    R_Date("TKA-21334 LC3A1-5-11x Floor 2 fill", 3723, 21)
    {

```

```

    Outlier();
};
R_Date("TKA-21333 LC3A1-5-11 Floor 2 fill", 2733, 20);
};
Boundary();
Boundary();
Phase()
{

```

```

    R_Date("TKA-21331 LC3A1-5-2 Floor 2 fill", 2481, 19);
    R_Date("TKA-21332 LC3A1-5-2 Floor 2 fill", 2508, 20);
};
Boundary("End La Carmelita LC3A");
};
};

```

Model 2. Outlier model.

```

Plot()
{
    Outlier_Model("General",T(5),U(0,4),"t");
    Sequence("Aguada Fénix Op NR3A")
    {
        Label("Aguada Fénix midden before plateau construction (Op
NR3A)");
        Boundary("Start midden NR3A");
        Phase("Midden")
        {
            R_Date("TKA-20626 NR3A4-8-9 midden", 2989, 25)
            {
                Outlier(0.05);
            };
            R_Date("TKA-20627 NR3A4-8-9 midden", 2951, 24)
            {
                Outlier(0.05);
            };
            R_Date("TKA-20628 NR3A4-8-10 midden", 2987, 26)
            {
                Outlier(0.05);
            };
            R_Date("TKA-20629 NR3A4-8-10 midden", 3016, 24)
            {
                Outlier(0.05);
            };
            R_Date("TKA-20630 NR3A4-8-10 midden", 2977, 28)
            {
                Outlier(0.05);
            };
            R_Date("TKA-20631 NR3A4-8-10 midden", 2949, 23)
            {
                Outlier(0.05);
            };
            };
            Boundary("End midden NR3A");
            Label("Aguada Fénix Main Plateau (Op NR3A)");
            Boundary("Start Main Plateau NR3A");
            Phase("Color fill")
            {
                R_Date("TKA-20622 NR3A3-7-3 color fill", 2832, 23)
                {
                    Outlier(0.05);
                };
                R_Date("TKA-20623 NR3A2-7-1 color fill", 2848, 24)
                {
                    Outlier(0.05);
                };
                R_Date("TKA-20624 NR3A2-7-1 color fill", 2869, 24)
                {
                    Outlier(0.05);
                };
                R_Date("TKA-20625 NR3A2-7-4 color fill", 2848, 23)
                {
                    Outlier(0.05);
                };
            };
        };
    };
}

```

```

};
Boundary();
Boundary();
R_Date("TKA-20621 NR3A4-6-3 Under Floor 6", 2743, 23)
{
    Outlier(0.05);
};
Boundary();
R_Date("TKA-20620 NR3A4-6-2 Under Floor 5", 2701, 26)
{
    Outlier(0.05);
};
Boundary("End Middle Preclassic NR3A");
};
Sequence("Aguada Fénix Op NR7A")
{
    Label("Aguada Fénix midden before plateau construction (Op
NR7A)");
    Boundary("Start midden NR7A");
    R_Combine("NR7A3-8-6 TKA-21342&TKA-21343")
    {
        R_Date("TKA-21342 NR7A3-8-6* Cache NR2", 2941, 21);
        R_Date("TKA-21343 NR7A3-8-6* Cache NR2", 2940, 19);
        Outlier(0.05);
    };
    Phase("Floor 11 fill")
    {
        R_Date("TKA-21341 NR7A3-8-4 Fill on bedrock", 2929, 21)
        {
            Outlier(0.05);
        };
        R_Date("TKA-21345 NR7A1-8-4 Floor 11 fill", 2867, 19)
        {
            Outlier(0.05);
        };
    };
    Boundary("End midden NR7A");
    Label("Aguada Fénix Main Plateau (Op NR7A)");
    Boundary("Start Main Plateau NR7A");
    R_Date("TKA-21340 NR7A3-8-1 Floor 10 fill", 2817, 19)
    {
        Outlier(0.05);
    };
    Boundary();
    R_Date("TKA-21344 NR7A2-7-3x Fill", 2994, 20)
    {
        Outlier();
    };
    R_Date("TKA-21339 NR7A1-7-1x Floor 8 fill", 3230, 20)
    {
        Outlier();
    };
    Boundary();
    Phase()
    {

```

```

R_Date("TKA-21337 NR7A3-4-4x Ceramic offering", 3136,
21)
{
  Outlier();
};
R_Date("TKA-21338 NR7A3-4-4 Ceramic offering", 2718, 19)
{
  Outlier(0.05);
};
};
Boundary();
Phase()
{
  R_Date("TKA-21336 NR7A1-4-2x Floor 2 fill", 4992, 22)
  {
    Outlier();
  };
  R_Date("TKA-21335 NR7A2-4-2 Floor 2 fill", 2889, 19)
  {
    Outlier(0.05);
  };
};
Boundary("End Middle Preclassic NR7A");
};
Sequence("Aguada Fénix Op NR5A")
{
  Boundary();
  R_Date("TKA-20670 NR5A2-7-8 Floor 23 fill", 3017, 23)
  {
    Outlier(0.05);
  };
  Boundary();
  Label("Aguada Fénix Main Plateau (Op NR5A)");
  Boundary("Start Main Plateau NR5A");
  Sequence()
  {
    Boundary();
    Phase("Floor 22 fill")
    {
      R_Date("TKA-20668 NR5A1-7-5 On dark clay under Floor
22", 2805, 21)
      {
        Outlier(0.05);
      };
      R_Date("TKA-20669 NR5A1-7-8 Floor 22 fill", 2834, 20)
      {
        Outlier(0.05);
      };
      };
      Boundary();
      R_Date("TKA-20638 NR5A1-6-13 Floor 19 fill", 3800, 25)
      {
        Outlier(0.05);
      };
      Boundary();
      R_Date("TKA-20637 NR5A1-6-6 On Floor 16", 2845, 23)
      {
        Outlier(0.05);
      };
      Boundary();
      R_Date("TKA-20635 NR5A2-6-4 On Floor 14", 2835, 25)
      {
        Outlier(0.05);
      };
      Boundary();
      R_Date("TKA-20636 NR5A2-6-3 On Floor 13", 2838, 23)
      {
        Outlier(0.05);
      };
      Boundary();

```

```

};
Boundary("End Middle Preclassic NR5A");
Boundary("Start Late-Terminal Preclassic NR5A");
R_Date("TKA-20634 NR5A2-4-4 On Floor 4", 2055, 22)
{
  Outlier(0.05);
};
Boundary("End Late-Terminal Preclassic NR5A");
};
Sequence("Aguada Fénix Op NR8A")
{
  Label("Aguada Fénix Main Plateau (Op NR8A)");
  Boundary("Start Main Plateau NR8A");
  Sequence()
  {
    Boundary();
    Phase()
    {
      R_Date("TKA-21370 NR8A8-6-9 On Floor 19", 2874, 22)
      {
        Outlier(0.05);
      };
      R_Date("TKA-21371 NR8A8-6-9 On Floor 19", 2879, 22)
      {
        Outlier(0.05);
      };
      };
      Boundary();
      Boundary();
      Phase()
      {
        R_Date("TKA-21368 NR8A1-5-3 Floor 13 fill", 2800, 22)
        {
          Outlier(0.05);
        };
        R_Date("TKA-21369 NR8A2-5-3 Floor 13 fill", 2781, 25)
        {
          Outlier(0.05);
        };
        };
        Boundary();
        Boundary();
        R_Date("TKA-21367 NR8A1-4-4 Floor 4 fill", 2772, 24)
        {
          Outlier(0.05);
        };
        Boundary();
        Boundary();
        R_Date("TKA-21366 NR8A1-4-3 On Floor 4", 2728, 24)
        {
          Outlier(0.05);
        };
        Boundary();
        };
        Boundary("End Middle Preclassic NR8A");
        Boundary("Start Late Classic NR8A");
        R_Date("TKA-21365 NR8A5-3-1 Termination deposit", 1242,
25)
        {
          Outlier(0.05);
        };
        Boundary("End Late Classic NR8A");
        };
        Sequence("Aguada Fénix causeway Op NR4A")
        {
          Label("Aguada Fénix causeway (Op NR4A)");
          Boundary("Start causeway NR4A");
          R_Date("TKA-20633 NR4A1-7-6 Floor 18 fill", 2785, 23)
          {
            Outlier(0.05);

```

```

};
Boundary();
Boundary();
R_Date("TKA-20632 NR4A1-5-6 On Floor 10", 2753, 23)
{
  Outlier(0.05);
};
Boundary("End causeway NR4A");
};
Sequence("Aguada Fénix causeway Op NR6A")
{
  Label("Aguada Fénix causeway (Op NR6A)");
  Boundary("Start causeway NR6A");
  R_Date("TKA-20680 NR6A1-6-6 Floor 23 fill", 2726, 20)
  {
    Outlier(0.05);
  };
  Boundary();
  Boundary();
  Phase("Floor 21 fill")
  {
    R_Date("TKA-20679 NR6A1-6-3 Floor 21 fill", 2759, 20)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20678 NR6A1-6-3 Floor 21 fill", 2689, 21)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20677 NR6A1-6-2 Floor 21 fill", 2927, 20)
    {
      Outlier(0.05);
    };
  };
  Boundary();
  Boundary();
  R_Date("TKA-20676 NR6A1-5-26 Canal 5", 2677, 20)
  {
    Outlier(0.05);
  };
  Boundary();
  Boundary();
  Phase("Floor 16 & Canal 3")
  {
    R_Date("TKA-20672 NR6A1-5-18 Floor 16 fill", 2778, 20)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20673 NR6A1-5-18 Floor 16 fill", 2730, 20)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20675 NR6A1-5-19 In Canal 3", 2756, 20)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20674 NR6A1-5-19 In Canal 3", 2718, 20)
    {
      Outlier(0.05);
    };
  };
  Boundary();
  Boundary();
  R_Date("TKA-20671 NR6A1-5-15 Canal 2", 2756, 20)
  {
    Outlier(0.05);
  };
  Boundary("End causeway NR6A");
};
Sequence("Aguada Fénix peripheral area Op AF1A")

```

```

{
  Boundary();
  Phase()
  {
    R_Date("TKA-21323 AF1A1-5-1 carbon layer", 2742, 19)
    {
      Outlier(0.05);
    };
    R_Date("TKA-21324 AF1A1-5-1 carbon layer", 2717, 19)
    {
      Outlier(0.05);
    };
  };
  Boundary();
};
Sequence("Aguada Fénix peripheral area Op AF1B")
{
  Boundary();
  R_Date("TKA-21327 AF1B1-6-6 In Floor 14", 2847, 19)
  {
    Outlier(0.05);
  };
  Boundary();
  Boundary();
  R_Date("TKA-21326 AF1B1-5-5 Floor 8 fill", 2809, 19)
  {
    Outlier(0.05);
  };
  Boundary();
  Boundary();
  R_Date("TKA-21325 AF1B1-5-1 Floor 4 fill and part of Floor
5", 2742, 20)
  {
    Outlier(0.05);
  };
  Boundary();
};
Sequence("Aguada Fénix peripheral area Op AF2B")
{
  Boundary();
  Phase()
  {
    R_Date("TKA-21330 AF2B1-5-3x Floor 10 fill", 3340, 21)
    {
      Outlier();
    };
    R_Date("TKA-21329 AF2B1-5-3 Floor 10 fill", 2678, 19)
    {
      Outlier(0.05);
    };
  };
  Boundary();
  Boundary();
  R_Date("TKA-21328 AF2B1-4-6 Floor 4 Fill", 2519, 19)
  {
    Outlier(0.05);
  };
  Boundary();
};
Sequence("La Carmelita Op LC1B")
{
  Boundary("Start La Carmelita LC1B");
  Phase()
  {
    R_Date("TKA-20613 LC1B1-5-6", 2772, 23)
    {
      Outlier(0.05);
    };
    R_Date("TKA-20614 LC1B1-5-6", 2746, 23)
    {

```

```

    Outlier(0.05);
};
R_Date("TKA-20615 LC1B1-5-7", 2750, 23)
{
    Outlier(0.05);
};
R_Date("TKA-20616 LC1B1-5-8", 2782, 26)
{
    Outlier(0.05);
};
R_Date("TKA-20617 LC1B1-5-8", 2751, 24)
{
    Outlier(0.05);
};
R_Date("TKA-20618 LC1B1-5-8", 2775, 23)
{
    Outlier(0.05);
};
R_Date("TKA-20619 LC1B1-5-10", 2469, 25)
{
    Outlier(0.05);
};
};
Boundary("End La Carmelita LC1B");
};
Sequence("La Carmelita Op LC3A")
{
    Boundary("Start La Carmelita LC3A");
};

```

```

Phase()
{
    R_Date("TKA-21334 LC3A1-5-11x Floor 2 fill", 3723, 21)
    {
        Outlier();
    };
    R_Date("TKA-21333 LC3A1-5-11 Floor 2 fill", 2733, 20)
    {
        Outlier(0.05);
    };
};
Boundary();
Boundary();
Phase()
{
    R_Date("TKA-21331 LC3A1-5-2 Floor 2 fill", 2481, 19)
    {
        Outlier(0.05);
    };
    R_Date("TKA-21332 LC3A1-5-2 Floor 2 fill", 2508, 20)
    {
        Outlier(0.05);
    };
};
Boundary("End La Carmelita LC3A");
};
};

```