**[For SUPPLEMENTARY MATERIAL]**

**Mediterranean Early Iron Age chronology: assessing radiocarbon dates from a stratified Geometric period deposit at Zagora (Andros), Greece**

Rudolph Alagich1,\* [ORCID: 0000-0002-2369-328X], Lorena Becerra-Valdivia2 [ORCID: 0000-0001-5501-5347], Margaret C. Miller1 [ORCID: 0000-0002-5210-3517], Katerina Trantalidou3 [ORCID: 0000-0002-3761-0481] & Colin Smith4,5 [ORCID: 0000-0001-5901-8780]

1 Department of Archaeology, University of Sydney, Australia

2 Oxford Radiocarbon Accelerator Unit, Research Laboratory for Archaeology and the History of Art, School of Archaeology, University of Oxford, UK

3 Hellenic Ministry of Culture, Athens, Greece

4 Department of Archaeology and History, La Trobe University, Bundoora, Australia

5 Laboratorio de Evolución Humana, Departamento de Historia, Geografía y Comunicación, Universidad de Burgos, Spain

\* Author for correspondence ✉ rudy.alagich@sydney.edu.au

*Received: 5 September 2022; Revised: 14 March 2023; Accepted: 25 May 2023*

Chart

Description automatically generated

*Figure S1. Probability density function for the difference (“D”) between the two boundaries between levels 15 and 7 (“A” and “B”). The results suggest that these are statistically comparable as the distribution includes zero at both 95.4% and 68.3% confidence interval (bars beneath distribution). This suggests that the occupation at this point in the sequence was continuous and short.*

Graphical user interface, application, table, Excel

Description automatically generated

Figure S2. Probability density functions for the difference (“D”) between the start of levels 19, 7 and 5. These results suggest that, apart from levels 7 and 5, the distributions do not overlap at 68.3% confidence interval as they do not include zero. This suggests that the cultural events were generally temporally distinct, yet in close sequential order. Bars underneath the distributions denote confidence intervals.

**OxCal code**

Plot()

{

Outlier\_Model("General",T(5),U(0,4),"t");

Sequence("Zagora")

{

Boundary("Start level 19");

Phase("Level 19")

{

R\_Date("UNSW-219", 2826, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="19";

};

R\_Date("UNSW-221", 2814, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="19";

};

};

Boundary("End level 19/Start level 18");

Label("Level 18");

R\_Date("UNSW-214", 2815, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="18";

};

Boundary("End level 18/Start level 17");

Label("Level 17");

R\_Date("UNSW-215", 2818, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="17";

};

Boundary("End level 17/Start level 16");

Label("Level 16");

R\_Date("UNSW-217", 2810, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="16";

};

Boundary("End level 16/Start level 15");

Phase("Level 15")

{

R\_Date("UNSW-213", 2809, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="15";

};

R\_Date("UNSW-216", 2807, 20)

{

Outlier("General", 0.05);

chronology="MG / SPG III";

level="15";

};

};

Boundary("End level 15/Start gap");

Date("Date of gap");

Interval("Duration of gap");

Boundary("End gap/Start level 7");

Label("Level 7");

R\_Date("UNSW-222", 2753, 20)

{

Outlier("General", 0.05);

chronology="MG II / SPG IIIb";

level="7";

};

Boundary("End level 7/Start level 6");

R\_Date("UNSW-218", 2759, 20)

{

Outlier("General", 0.05);

chronology="MG II / SPG IIIb";

level="6";

};

Boundary("End level 6/Start level 5");

R\_Date("UNSW-220", 2764, 20)

{

Outlier("General", 0.05);

chronology="LG I";

level="5";

};

Boundary("End level 5");

};

Sequence()

{

Boundary("=Start level 19");

Interval("Duration MG / SPG III");

Date("Date MG / SPG III");

Boundary("=End level 15/Start gap");

};

Sequence()

{

Boundary("=End gap/Start level 7");

Interval("Duration MG II / SPG IIIb");

Date("Date MG II / SPG IIIb");

Boundary("=End level 6/Start level 5");

};

Sequence()

{

Boundary("=End level 6/Start level 5");

Interval("Duration LG I");

Date("Date LG I");

Boundary("=End level 5");

};

Sequence()

{

Boundary("=End level 19/Start level 18");

Interval("Duration level 18 or surface 3");

Date("Date level 18 or surface 3");

Boundary("=End level 18/Start level 17");

};

};