

Supplementary material of

Indoor air quality assessment in the Library of the National Observatory of Athens, Greece

Fani Drougka¹, Eleni Liakakou^{2,*}, Arezina Sakka¹, Dimitrios Mitsos¹, Nikolaos Zacharias¹, Nikolaos Mihalopoulos^{2,3}, Evangelos Gerasopoulos²

¹ *University of the Peloponnese, Department of History, Archaeology & Cultural Resources Management, 24100 Kalamata, Greece.*

² *National Observatory of Athens, Institute for Environmental Research and Sustainable Development, 15236 P. Penteli, Athens, Greece.*

³ *Environmental Chemical Processes Laboratory (ECPL), Department of Chemistry, University of Crete, 71003 Heraklion, Crete, Greece*

* Corresponding author. Tel: +30-210-810-9139 ; Fax: +30-210-810-3236

E-mail address: liakakou@noa.gr

Table Captions

Table S1. Basic statistics on temperature data (in °C) for the library, the showcase and the outdoor conditions. BG, AC and V correspond to background, air-conditioned and ventilation periods, respectively.

Table S2. Basic statistics on relative humidity data (in %) for the library, the showcase and the outdoor conditions. BG, AC and V correspond to background, air-conditioned and ventilation periods, respectively.

Table S1. Basic statistics on temperature data (in °C) for the library, the showcase and the outdoor conditions. BG, AC and V correspond to background, air-conditioned and ventilation periods, respectively.

period	date-time	library					showcase					outdoor				
		min	max	med	aver	stdev	min	max	med	aver	stdev	min	max	med	aver	stdev
<i>BG1</i>	4/8/2016 2:00 - 11/8/2016 7:55	27.8	34.9	32.7	32.7	1.0	28.5	33.5	31.4	31.4	1.0	25.3	36.7	29.1	30.0	3.0
<i>BG2</i>	11/8/2016 20:05 - 16/8/2016 7:55	24.9	34.4	28.5	29.0	2.0	25.4	33.2	27.4	27.9	1.9	21.7	36.3	26.2	26.4	3.3
<i>BG3</i>	16/8/2016 20:05 - 18/8/2016 7:55	22.9	31.7	29.5	29.0	1.9	23.3	30.4	28.4	27.6	2.0	23.0	35.9	26.7	28.0	3.9
<i>BG4</i>	18/8/2016 20:05 - 22/8/2016 8:55	23.1	32.7	31.0	30.7	1.6	23.8	31.5	29.9	29.6	1.7	25.1	35.6	28.1	29.3	3.2
<i>BG5</i>	22/8/2016 10:05 - 22/8/2016 12:55	31.2	33.1	32.3	32.3	0.5	29.8	31.2	30.4	30.4	0.4	29.9	34.0	33.2	32.7	1.1
<i>BG6</i>	22/8/2016 14:05 - 24/8/2016 8:55	30.9	34.3	32.5	32.7	0.9	29.6	33.2	31.4	31.5	1.0	24.7	35.2	28.5	29.2	3.1
<i>BG7</i>	24/8/2016 10:05 - 24/8/2016 12:55	30.1	30.8	30.5	30.5	0.2	29.4	29.7	29.5	29.5	0.1	28.0	30.6	29.1	29.2	0.7
<i>BG8</i>	24/8/2016 14:05 - 26/8/2016 8:55	27.1	31.4	29.5	29.6	1.1	26.6	30.2	28.6	28.7	0.9	23.9	31.2	27.0	27.0	1.9
<i>BG9</i>	26/8/2016 10:05 - 26/8/2016 12:55	27.4	28.3	28.0	27.9	0.3	26.6	27.3	26.9	26.9	0.2	26.4	28.8	27.7	27.6	0.7
<i>BG10</i>	26/8/2016 14:05 - 31/8/2016 10:20	26.9	32.4	29.0	29.3	1.3	26.2	31.0	28.1	28.2	1.2	22.9	33.5	25.8	26.7	2.7
<i>BG</i>	<i>All periods</i>	22.9	34.9	30.9	30.6	2.1	23.3	33.5	29.7	29.5	2.1	21.7	36.7	27.6	28.2	3.4
<i>AC1</i>	11/8/2016 8:00-20:00	25.5	32.4	26.3	26.9	1.5	26.5	31.1	27.4	27.8	1.1	26.2	35.7	33.7	32.7	2.6
<i>AC2</i>	16/8/2016 8:00-20:00	22.7	27.8	23.2	23.4	0.9	23.4	26.6	23.7	24.1	0.9	24.6	35.7	32.8	31.9	3.1
<i>AC3</i>	18/8/2016 8:00-20:00	23.1	29.5	23.5	23.8	1.2	23.9	28.3	24.4	25.0	1.2	25.0	35.0	32.3	31.6	2.7
<i>AC</i>	<i>All periods</i>	22.7	32.4	23.5	24.7	2.0	23.4	31.1	24.5	25.6	1.9	24.6	35.7	32.9	32.1	2.8
<i>V1 morning</i>	22/8/2016 9:00-10:00	30.5	31.0	30.7	30.7	0.1	29.6	29.7	29.7	29.7	0.0	28.0	29.9	28.9	28.9	0.5
<i>V2 noon</i>	22/8/2016 13:00-14:00	33.1	33.5	33.3	33.3	0.1	31.2	31.8	31.5	31.5	0.2	33.2	34.1	33.8	33.7	0.3
<i>V3 morning</i>	24/8/2016 9:00-10:00	29.9	30.8	30.0	30.1	0.2	29.5	29.6	29.6	29.6	0.1	27.3	28.0	27.6	27.6	0.3
<i>V4 noon</i>	24/8/2016 13:00-14:00	30.5	30.8	30.6	30.6	0.1	29.7	29.8	29.8	29.8	0.0	29.9	30.9	30.7	30.6	0.3
<i>V5 morning</i>	26/8/2016 9:00-10:00	27.0	27.5	27.1	27.2	0.1	26.6	26.7	26.6	26.6	0.0	25.3	26.3	25.6	25.7	0.3
<i>V6 noon</i>	26/8/2016 13:00-14:00	28.4	28.6	28.4	28.5	0.1	27.3	27.5	27.4	27.4	0.1	28.9	29.5	29.2	29.2	0.1
<i>V morning</i>	<i>xx/8/2016 9:00-10:00</i>	27.0	31.0	30.0	29.3	1.6	26.6	29.7	29.6	28.6	1.4	25.3	29.9	27.6	27.4	1.4
<i>V noon</i>	<i>xx/8/2016 13:00-14:00</i>	28.4	33.5	30.6	30.8	2.0	27.3	31.8	29.8	29.6	1.7	28.9	34.1	30.7	31.2	1.9
<i>V</i>	<i>All periods</i>	27.0	33.5	30.5	30.1	1.9	26.6	31.8	29.6	29.1	1.6	25.3	34.1	29.1	29.3	2.5

Table S2. Basic statistics on relative humidity data (in %) for the library, the showcase and the outdoor conditions. BG, AC and V correspond to background, air-conditioned and ventilation periods, respectively.

period	date-time	library					showcase					outdoor				
		min	max	med	aver	stdev	min	max	med	aver	stdev	min	max	med	aver	stdev
<i>BG1</i>	4/8/2016 2:00 - 11/8/2016 7:55	27	43	35	35	3	38	40	39	39	0	22	68	45	44	10
<i>BG2</i>	11/8/2016 20:05 - 16/8/2016 7:55	25	48	35	35	5	37	40	38	38	1	18	68	42	42	10
<i>BG3</i>	16/8/2016 20:05 - 18/8/2016 7:55	28	39	30	31	3	36	38	37	37	1	20	63	34	37	11
<i>BG4</i>	18/8/2016 20:05 - 22/8/2016 8:55	30	40	35	35	2	36	39	38	38	1	24	63	42	42	8
<i>BG5</i>	22/8/2016 10:05 - 22/8/2016 12:55	35	36	35	35	0	38	39	39	39	0	33	41	36	36	2
<i>BG6</i>	22/8/2016 14:05 - 24/8/2016 8:55	34	40	36	36	2	38	40	39	39	0	31	60	47	47	8
<i>BG7</i>	24/8/2016 10:05 - 24/8/2016 12:55	43	44	43	43	0	39	40	40	40	0	44	49	47	46	1
<i>BG8</i>	24/8/2016 14:05 - 26/8/2016 8:55	37	53	41	43	5	39	40	39	39	0	41	65	49	50	6
<i>BG9</i>	26/8/2016 10:05 - 26/8/2016 12:55	32	38	34	34	2	38	39	39	39	0	30	39	32	33	2
<i>BG10</i>	26/8/2016 14:05 - 31/8/2016 10:20	27	43	35	36	4	38	40	38	39	0	24	70	42	44	12
<i>BG</i>	<i>All periods</i>	25	53	35	36	4	36	40	39	39	1	18	70	44	44	10
<i>AC1</i>	11/8/2016 8:00-20:00	30	42	35	35	3	37	40	38	38	1	31	57	38	40	8
<i>AC2</i>	16/8/2016 8:00-20:00	31	37	33	33	1	36	38	36	37	1	18	46	22	25	8
<i>AC3</i>	18/8/2016 8:00-20:00	30	35	33	33	1	36	38	37	37	1	19	45	31	31	6
<i>AC</i>	<i>All periods</i>	30	42	34	34	2	36	40	37	37	1	18	57	32	32	9
<i>V1 morning</i>	22/8/2016 9:00-10:00	37	38	37	37	0	39	39	39	39	0	41	48	43	44	2
<i>V2 noon</i>	22/8/2016 13:00-14:00	34	37	35	35	1	38	39	39	39	0	32	37	34	34	2
<i>V3 morning</i>	24/8/2016 9:00-10:00	42	45	44	44	1	39	40	39	39	0	48	53	51	51	1
<i>V4 noon</i>	24/8/2016 13:00-14:00	41	44	43	43	1	39	40	40	40	0	41	45	43	43	1
<i>V5 morning</i>	26/8/2016 9:00-10:00	38	39	39	39	0	39	39	39	39	0	40	47	41	42	2
<i>V6 noon</i>	26/8/2016 13:00-14:00	31	32	32	32	0	38	38	38	38	0	29	30	29	29	0
<i>V morning</i>	xx/8/2016 9:00-10:00	37	45	39	40	3	39	40	39	39	0	40	53	44	45	4
<i>V noon</i>	xx/8/2016 13:00-14:00	31	44	35	36	5	38	40	39	39	1	29	45	34	36	6
<i>V</i>	<i>All periods</i>	31	45	38	38	4	38	40	39	39	0	29	53	42	40	7