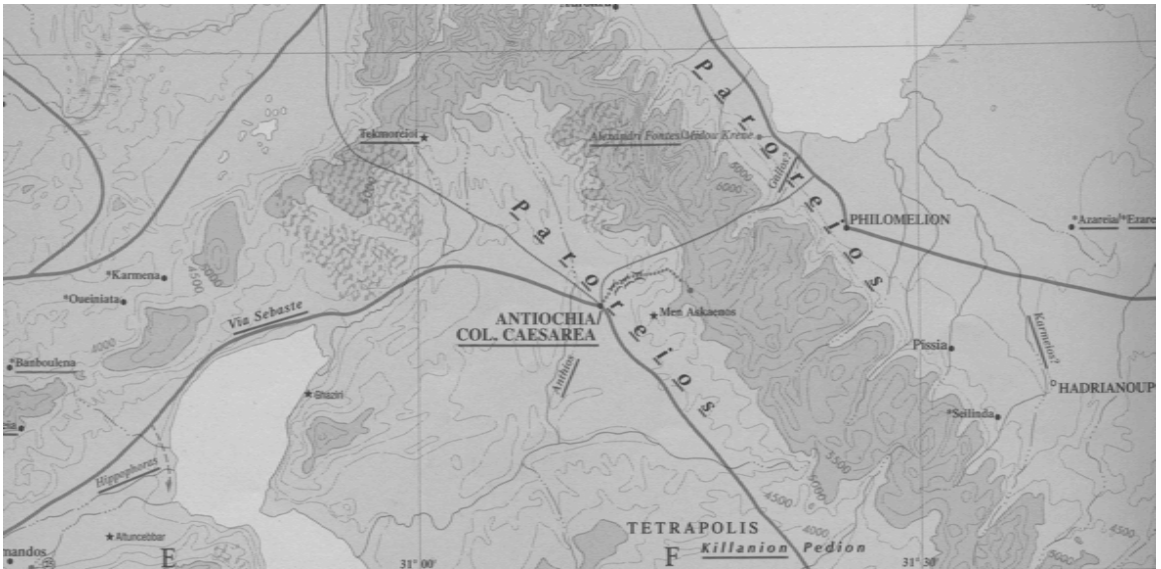
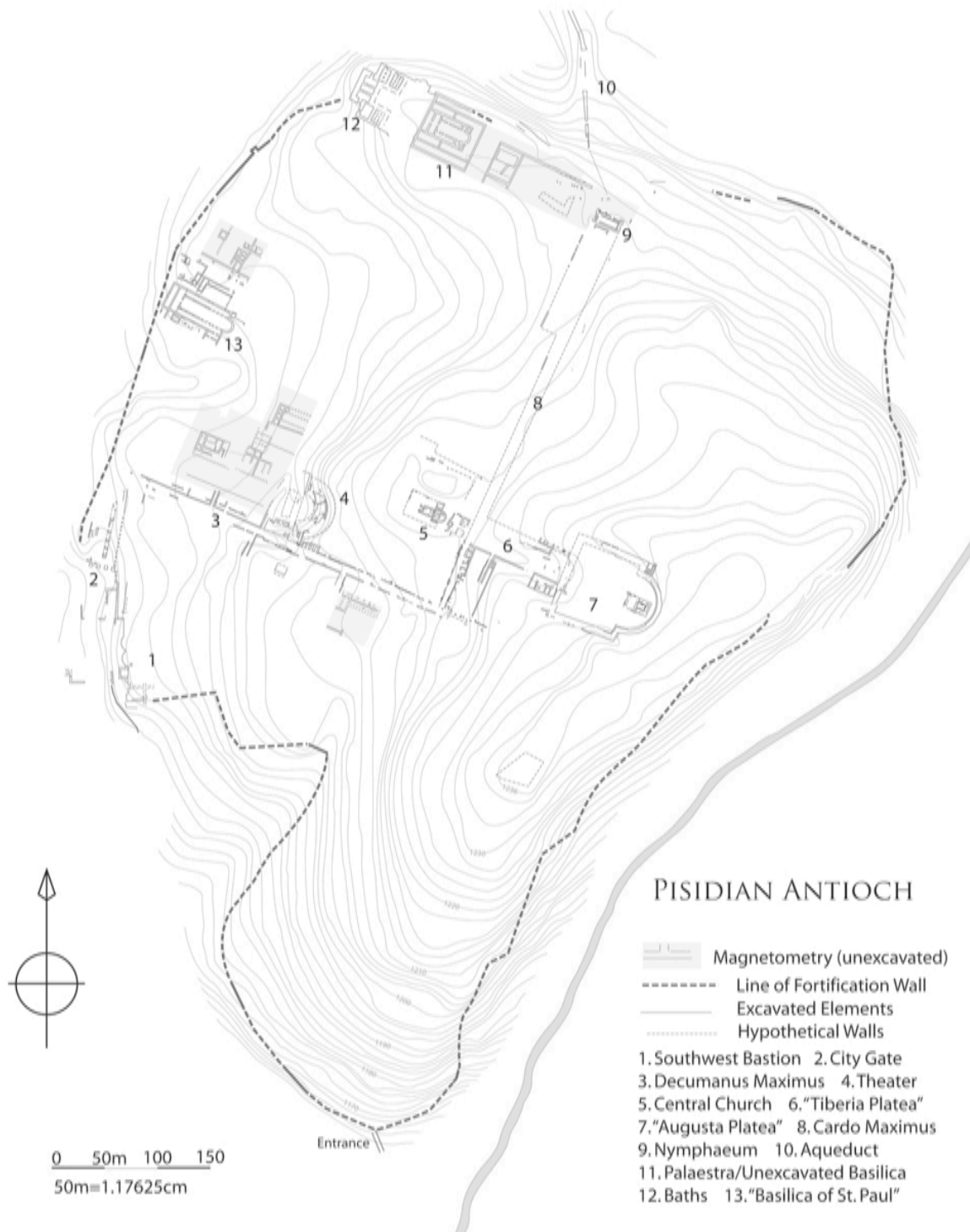




6.12. Unidentified male statue base showing signature of Glykon of Dokimeion from Antonine nymphaeum at Sagalassos. Photo: author.



6.13. Map of Pisidian Antioch environs. Barrington Atlas 2000.



6.14. Pisidian Antioch urban plan. Courtesy Gazda and Ng 2011.



6.15. Pisidian Antioch limestone quarries. Photo: author.



6.16. Head of Augustus from imperial cult complex at Pisidian Antioch (Istanbul Archaeological Museum). Photo: author.



6.17. Cornelia Antonia from Mên Askaênos sanctuary at Pisidian Antioch (Istanbul Archaeological Museum). Photo: author.



6.18. Zeus statue signed by Menandros from Dokimeion at Pisidian Antioch. Photo: author.

TABLES

**Table 3.1. Aphrodisias Regional Survey: Isotopic Results from marble quarry samples**

Sample	color	(VPDB) $\delta^{13}\text{C}$	(VPDB) $\delta^{18}\text{O}$	comments
Yazır Quarry (n=8) n is the number of hand samples				
YGP 1	mottled	5.16	-7.34	Late Paleozoic marbles mottled gray and white
YGP2a	mottled	5.05	-8.55	a and b from same hand sample, a is white and b is gray
YGP2b	mottled	5.30	-7.76	
YGP3	mottled	4.19	-9.72	
Yz 1-09	mottled	2.89	-10.50	float
Yz 2-09	mottled	4.96	-8.59	float
Yz 3-09	mottled	5.16	-9.31	float
Yz 4-09	mottled	4.34	-10.45	float
Yz 5-09	mottled	3.87	-10.92	float
Haçam Quarry (n=13)				
H1	white	2.27	-3.82	
H2	white	2.23	-5.93	
H3	white	2.19	-3.60	
H4	white	1.31	-3.90	
H5	white	1.72	3.07	
H08-1a	gray	-2.72	-3.52	
H08-2	white	2.17	-5.76	
H08-3	white	2.11	-4.04	
H08-4	white	1.87	-3.33	
H08-5a	gray	2.08	-2.95	Samples 5a and b taken from a metabreccia; 5a is the matrix 5b the clast
H08-5b	white	2.10	-2.96	
H08-6	tan	1.95	-4.55	iron-stained fracture on sample
H08-7	white	2.31	-3.53	
H08-9	gray	1.86	-3.08	
Çamarası Quarry (n=3)				
CM1	white	2.18	-3.24	
CM2	white	2.37	-3.24	
CM3	white	2.27	-3.04	
Nargedik Quarry (n=4)				
NG1	white	1.98	-3.47	
NG2	white	2.59	-3.13	
NG3	white	2.50	-3.13	
NG4	white	1.40	-3.84	
Kızıl Cağıl Tepe Quarry (n=6)				
KCT1	white	1.72	-3.03	
KCT2	tan	1.78	-3.16	
KCT08-1	white	1.34	-4.51	
KCT08-2	white	1.84	-2.81	
KCT08-3	white	1.60	-3.96	
KCT08-4	white	1.63	-4.21	
Ören Quarry (n=4)				
GE1	white	2.24	-2.73	
O1	white	1.88	-2.53	
O2	white	2.18	-2.66	
O3a	white	2.39	-2.79	
O3b	white	2.32	-3.06	
City Quarries (n=9)				
CQ1	mottled	2.28	-8.92	from highest quarry-marble beds interbedded with silicates
CQ2	white	1.72	-5.52	
CQ3	white	2.42	-3.84	

CQ4	blue gray	-2.75	-2.48	
CQ5	white	1.62	-4.01	
CQ6	white	1.65	-3.96	
CQ7	blue gray	0.09	-3.81	
CQ08-7	blue gray	-1.36	-2.49	
CQ08-8a	blue gray	-2.02	-2.83	
CQ08-8b	blue gray	-2.07	-3.45	
<b>Baba Dağ (n=6)</b>				
BD 1	dk gray	0.24	-2.35	float thin bedded, weakly metamorphosed marbles
BD 2	dk gray	-0.65	-3.84	float thin-bedded, weakly metamorphosed marbles
BDQ1	mottled	-0.30	-7.73	single sample collected by Ratte from high quarry
BDQ 3	mottled	0.14	-2.43	
	mottled			
BDQ 4	(gray)	2.43	-3.77	
BDQ 5	mottled	2.45	-3.08	
<b>Çamova Tepe (n=3)</b>				
CT1	white	2.18	-2.66	
CT2a	mottled (W)	2.80	-4.36	a and b from same sample, a from white mottle, b from purple gray
	mottled			
CT2b	(gray)	2.49	-4.37	
CT3a	mottled (W)	2.66	-3.46	a and b from same hand sample, a is white and b is purple gray
	mottled			
CT3b	(gray)	2.65	-3.49	
<b>Kirköy modern quarry (n=2)</b>				
K1	dk gray	-0.09	-2.33	bedding and fossils well preserved =? recrystallized limestone
K2	dk gray	-0.16	-2.17	
<b>Demirağlar modern quarry (n=2)</b>				
DM1a	white	2.16	-7.85	beds of metavolcanics near top of quarry; probably Triassic age
DM3	rosa	3.63	-5.52	
DM1b	calcite	-7.79	-7.96	modern calcite from a small vein on the sample

Carbon and oxygen compositions are expressed as the per mil difference of the isotope ratios of the samples. Sample s taken from quarry faces in Roman quarries unless otherwise noted.

### 3.1. Aphrodisias Regional Survey: Isotopic results from marble quarry samples.

**Table 3.2. Aphrodisias Regional Survey: Archaeological Samples**

sample no.	name	provenance	color	grain size	century	∅13C	∅18O	comments
<b>Sculpture</b>								
BH	Blue Horse	Civil Basilica	bl/gy	fine	2nd	-1.18	-2.52	
DEM	Demos	Theater	wh	crse	2nd	2.12	-3.41	statue of priest wearing a crown
SEB-B	Boxer Candidianus	Theater	wh w/gy	crse	3rd	2.25	-3.20	
<b>Architectural Reliefs</b>								
SEB-H	Herakles & Nessos	Sebasteion	wh	crse	1st	1.87	-3.18	
SEB-C	Centaur	Sebasteion	wh	med-crse	1st	1.11	-4.69	
SEB-D	Diskouros	Sebasteion	wh	med-crse	1st	1.79	-3.86	
SEB-CB	Claudius & Britannia	Sebasteion	wh	crse	1st	1.75	-3.60	
<b>Architecture</b>								
SEB-1	column	Sebasteion	wh	med-crse	1st	2.00	-3.04	from Doric order of South Portico
TP10	monolithic column	Tetrapylon	wh	med-crse	2nd	1.63	-4.31	
TP11	monolithic column	Tetrapylon	gry/white	med	2nd	2.12	-2.66	
TP1a	monolithic column	Tetrapylon	mottled*	med-crse	2nd	3.34	-8.82	white on weathered side
TP1b						4.50	-8.34	blue gray
TP1c						4.32	-8.51	white
TP2	monolithic column	Tetrapylon	mottled	med-crse	2nd	4.77	-9.56	gray
TP3	monolithic column	Tetrapylon	mottled	med-crse	2nd	4.59	-8.45	
THB1a	monolithic column	Theater Baths	mottled	crse	2nd	4.66	-8.19	blue gray
THB1b						4.72	-8.98	cream
THB2	monolithic column	Theater Baths	mottled	med-crse	2nd	4.97	-7.61	white
TS3	monolithic column	Tetrastoon	mottled	med-crse	2nd	4.13	-9.67	white
TS4a	monolithic column	Tetrastoon	mottled	med	2nd	3.77	-10.51	gray
THB4b						4.86	-10.50	white
TS5	monolithic column	Tetrastoon	mottled	med-fine-med	2nd	0.25	-12.06	white/gray
TS6a	monolithic column	Tetrastoon	purple	med	2nd	2.69	-6.38	purple marble with iron stains and fractures
TS6b			purple			2.59	-6.74	darker purple
TS7	monolithic column	Tetrastoon	mottled	med	2nd	4.57	-9.45	blue gray
TS8a	monolithic column	Tetrastoon	mottled	med	2nd	4.47	-9.02	white/gray
TS8b						4.78	-9.11	
TS9	monolithic column	Tetrastoon	mottled	med	2nd	4.59	-8.74	white/gray
H1	pedestal	Hadrianic Baths	mottled	med-crse	2nd	3.73	-10.41	
H2a	fallen mono column	Hadrianic Baths	mottled	crse	2nd	4.58	-8.89	white
H2b						4.92	-7.82	gray
H3	fallen mono column	Hadrianic Baths	mottled	crse	2nd	3.54	-10.83	white
H4a	fallen mono column	Hadrianic Baths	mottled	med	2nd	4.73	-8.89	white
H4b						4.06	-8.75	gray
H5a	pedestal	Hadrianic Baths	mottled	crse	2nd	4.18	-9.74	white
H5b						3.86	-9.79	gray
GF1	monolithic column	Gaudin Fountain	mottled	crse	2nd	2.07	-9.30	
GG1a	monolithic column	Gaudin Gynamsium	mottled	med-crse	2nd	4.56	-9.43	white
GG1b						4.39	-9.45	dark gray
GG2	monolithic column	Gaudin Gynamsium	mottled	crse	2nd	4.52	-9.31	gray/white
B1	monolithic column	Bouleuterion	black/gr	fine	2nd	0.43	-4.11	fossils visible; column from scaenae frons
B2	spiraled column	Bouleuterion	black/gr	fine	2nd	3.79	-2.88	from scaenae frons column taken in Boul blockfield
<b>Unknown Provenance</b>								
SC1	spiraled column		black/gr	fine		-0.30	-3.10	near Sebasteion block field
TR1a	base		breccia	med-crse		1.18	-7.26	white
TR1b						0.64	-7.19	gray
TR2	base		breccia	med-crse		3.40	-11.07	
TR3a	small column		breccia	med		-1.51	-10.75	white
TR3b						-0.16	-10.81	gray

\*All marbles listed as mottled and brecciated are blue/gray and white

### 3.2. Aphrodisias Regional Survey: Archaeological samples.



Site	Building	Date	Architectural context	Architectural Order	Reference	Height (H) *	Diameter (D) *	Proportion of H:D
Dokimeion quarries No. 27	unknown	105 AD	monolithic		Fant 1989, No. 27	7.20m 21.31RF	1.14m 3.37RF	6.32
Punto Scifo A Shipwreck	unknown	200 AD	monolithic		Pensabene 1979, No. 5	4.20m 12.43RF	0.57m 1.68RF	7.36
Sardis	Bath-Gymnasium	161 - 211 AD	Screen Colonnade	Corinthian	Yegül 1986	5.25m 12.43RF	0.60m 1.78RF	8.75
Sardis	Bath-Gymnasium	161 - 211 AD	Upper Story	Corinthian	Yegül 1986	3.45m 10.21RF	0.46m 1.36RF	7.5
Hierapolis	Theater	“	1 <sup>st</sup> story	Corinthian	Sinan Ilhan, pers. comm.	5.35m 15.84RF	0.60m 1.77RF	8.95
Ephesos	Library of Celsus	117 AD	1 <sup>st</sup> story	Corinthian	FiE V/1 1953	5.30m 15.69RF	0.65m 1.92RF	8.15
Ephesos	Library of Celsus	117 AD	2 <sup>nd</sup> story	Corinthian	FiE V/1 1953	4.08m 12.07RF	0.50m 1.48RF	8.16
Ephesos	Baths of Vadius	147 - 149 AD	Kaisersaal Upper story, (other stories, including niches outside marmorsaal and lower story is based on proportions between diameter of	Corinthian	Steskal/La Torre Das Vadius Gymnasium in Ephesos	2.93m 8.67RF	0.35m 1.03RF	8.37

			column heights)					
Patara	Theater	126 - 147 AD	1 <sup>st</sup> story	Corinthian	Piesker/Ganzert 2011	3.71m 10.95RF	0.47m 1.39RF	7.9
Carthage	Theater	Mid -2 <sup>nd</sup> c. AD	1 <sup>st</sup> story	Composite	Ros 1990	4.73m 14RF	0.50m 1.48RF	9.46
Carthage	Theater	“	2 <sup>nd</sup> story	Corinthian	Ros 1990	4.20m 12.43RF	0.45m 1.33RF	9.3
Carthage	Theater	“	3 <sup>rd</sup> story	Corinthian	Ros 1990	3.68m 10.89RF	0.43m 1.27RF	8.56
Sabratha	Theater	193 - 235 AD	1 <sup>st</sup> story	Corinthian	Caputo 1959	5.27m 15.59RF	0.7m 2.07RF	7.52
Rome	Temple of Apollo Sosianus	Lat e 1 <sup>st</sup> c. B.C .	Cella of Temple - Aedicula e (10) with column-shafts in pavonazetto and other colored marbles	Corinthian	Viscogliosi 1998	2.36m 7RF		
Rome	Temple of Mars Ultor	Mid 30's - 2 B.C .	Two columns at entrance to Colossal Hall on NW Porticus	Corinthian	Ganzert 1996; Wilson Jones 2003 Table 2	7.0m 20.72RF	1.01m 3RF	7.0
Rome	Pantheon	117 - 138 AD	1 <sup>st</sup> story - rotunda	Corinthian	Wilson Jones 2003	8.87m 26.25RF	1.25m 3.7RF	7.1
Rome	Trajan's	98-	Lower	Corinthian	Packer	4.78m	0.6m	7.96

	Forum	117 AD	Interior order Libraries	an	1997	14.14RF	1.77RF	
Rome	Trajan's Forum	"	Upper Interior order Libraries	Corinthian	Packer 1997	3.53m 10.44RF	0.41m 1.21RF	8.61
Rome	Trajan's Forum	"	Columnar screens library	Corinthian	Packer 1997	5.17m 15.3RF	0.85m 2.51RF	6.08
Rome	Trajan's Forum	"	Peristyle surrounding T's column	Corinthian	Packer 1997	7.05m 20.86RF	0.97m 2.87RF	7.27
Rome	Trajan's Forum	"	East and West Colonnades	Corinthian	Packer 1997	7.05m 20.86RF	0.97m 2.87RF	7.27
Rome	Trajan's Forum	"	Southern façade of Basilica Ulpia	Corinthian	Packer 1997	8.83m 26.13RF	1.08m 3.19RF	8.18
Rome	Colosseum	72-96 AD	Upper Portico of <i>summa cavea</i>	Corinthian	Bianchi and Bruno 2009	6.94m 20.54RF	0.83m 2.45RF	8.36
Rome	Baths of Caracalla	211 - 216 AD	Screens btw. Rooms 8,9,10	Composite Corinthian	Delaine 1997 Appendix 3	7.0m 20.72RF	0.80m 2.36RF	8.75
Rome	Baths of Caracalla	211 - 216 AD	Screen 12/13 & Room 12 Portico	Composite Corinthian	Delaine 1997 Appendix 3	5.85m 17.31RF	0.64m 1.89RF	9.14
Crete	Gortyn	2 <sup>nd</sup> c. AD	Nymphaeum	Ionic found nearby	Paton and Schneider	3.55m 10.5RF	0.50m 1.48RF	7.1

**Principal dimensions of select *Pavonazetto* monolithic columns in the Roman Empire, including height and diameter of column shaft, and proportional relationship**

\*in meters and Roman Foot, standardized at 2.96m.

4.1. Measurements of monolithic columns from Dokimeion.

Table 5.1 Archaeological Samples from Ephesos Terrace House 2/31

sample no.	name	provenance	color	grain size	century	$\delta^{13}C$	$\delta^{18}O$
<u>Architecture</u>							
1a	Base 1	Terrace House 2/31	wh		2nd	3.10	-3.23
1b	Base 1	Terrace House 2/31	wh		2nd	3.08	-3.27
2a	Base 2	Terrace House 2/31	wh	Medium-coarse	2nd	3.11	-3.87
2b	Base 2	Terrace House 2/31	wh	Medium-Coarse	2nd	3.10	-3.86
3a	Pilaster Capital	Terrace House 2/31	wh		2nd	2.98	-4.42
3b	Pilaster Capital	Terrace House 2/31	wh	Medium-coarse	2nd	2.87	-4.64

5.1. Archaeological samples from Terrace House 2/31 in Ephesus.

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