

TABLE OF CONTENTS

Abbreviations	
Bibliographical Abbreviations	
Vorwort des Herausgebers	15
Acknowledgements	17
SECTION A. SETTING THE AGENDA (With a contribution by Ian K. Whitbread)	
A.1 Introduction	19
A.2 Archaeological Research at (Prehistoric) Kolonna	20
A.3 Macroscopic Study and Scientific Analysis of Aeginetan Pottery: A Review	21
A.4 Aims and Objectives of the Current Research	28
A.5 Structure of the Current Volume	29
SECTION B. THE MORPHOLOGICAL AND STYLISTIC STUDY OF POTTERY	
B.1 The Studied Pottery – Selection of Samples	31
B.1.1 Early Bronze Age III	31
B.1.2 Middle Bronze Age	31
B.1.3 Late Bronze Age	32
B.2 Pottery from Stratified Deposits	32
B.2.1 EBA II (Ceramic Phases B and C)	33
B.2.2 EBA III Advanced and Late (Ceramic Phase E)	33
B.2.3 EBA III Final (Ceramic Phase F)	33
B.2.4 MH I (Ceramic Phase G)	33
B.2.5 MH I (Ceramic Phase G, H)	33
B.2.6 MH II (Ceramic Phase I)	33
B.2.7 Late Classical	33
B.3 Archaeological Classification and Macroscopic Description	33
B.3.1 General	33
B.3.2 Archaeological Classification	33
B.3.3 Pattern-painted Pottery	34
B.3.3.1 Matt Pattern-painted Pottery (Class K1/A)	34
B.3.3.2 Lustrous Pattern-painted Pottery (Class K1/B)	34
B.3.3.3 Bichrome/Polychrome Pattern-painted Pottery (Class K1/C)	34
B.3.4 Solidly Painted Pottery (Class K2)	34
B.3.5 Unpainted Pottery (Class K3)	34
B.3.6 Surface Treatments	34
B.3.7 Classification of Colour	34
B.3.8 Technological Features	35
B.3.8.1 Rim Features	35
B.3.8.2 Incurving Rims	35
B.3.8.3 Straight-sided Outturning Rims	35
B.3.8.4 Concave Outturning Rims	35
B.3.8.5 Everted Rims	36
B.3.8.6 Carinated Rims – “Knickrand”	36
B.3.8.7 Body Carination	36
B.3.8.8 Base Features	36
B.3.8.9 Handle Shapes	36

B.3.8.10 Handle Attachments	37
B.3.8.11 Plastic Decoration	37
B.3.8.12 Hand-built/Wheel-thrown or Wheel-finished Technique	38
B.3.8.13 Miscellaneous Technological Features	38
B.3.9 Pattern-painted Decoration	38
B.3.9.1 Dark on Light Patterns	39
B.3.9.2 Light on Dark Patterns	41
B.3.9.3 Bichrome / Polychrome Patterns	42
B.4 Macroscopic Description	42
B.4.1 Statistical Analysis	44
B.5 Macroscopic Characterisation of the Sample	47
B.5.1 Assumed Local Aeginetan Pottery	47
B.5.1.1 Macroscopic Group 1 (MG 1)	47
B.5.1.2 Macroscopic Group 2 (MG 2)	49
B.5.2 Assumed Imported Pottery	50
B.5.2.1 Macroscopic Group 3 (MG 3)	50
B.5.2.2 Macroscopic Group 4 (MG 4)	52
B.5.2.3 Macroscopic Group 5 (MG 5)	53
B.5.2.4 Macroscopic Group 6 (MG 6)	54
B.5.2.5 Macroscopic Group 7 (MG 7)	55
B.5.2.6 Macroscopic Group 8 (MG 8)	56
B.5.2.7 Macroscopic Group 9 (MG 9)	57
B.5.2.8 Macroscopic Group 10 (MG 10)	58
B.5.2.9 Macroscopic Group 11 (MG 11)	58
B.5.2.10 Macroscopic Group 12 (MG 12)	59
B.5.2.11 Macroscopic Group 13 (MG 13)	59
B.5.2.12 Macroscopic Group 14 (MG 14)	61
B.5.2.13 Macroscopic Group 15 (MG 15)	61
B.5.2.14 Macroscopic Group 16 (MG 16)	62
B.5.2.15 Macroscopic Group 17 (MG 17)	63
B.5.2.16 Macroscopic Group 18 (MG 18)	64
B.5.2.17 Macroscopic Group 19 (MG 19)	65
B.5.2.18 Early Bronze II Control Group	65
 SECTION C. POTTERY PRODUCTION AND IMPORTATION AT BRONZE AGE KOLONNA: THE CERAMIC FABRICS AND THE ISLAND'S LANDSCAPE (E. Kiriati, M. Georgakopoulou and A. Pentedeka)	
C.1 The Integrated Scientific Investigation of the Pottery from Kolonna: The Methodology	69
C.1.1 Petrographic Analysis with Thin Sections, Combined with Refiring Tests	69
C.1.2 Chemical Analysis	70
C.1.3 Scanning Electron Microscopy	71
C.2 Exploring the Ceramic Landscapes of Aegina	71
C.2.1 The Geology of Aegina and Raw Materials for Pottery Manufacture	72
C.2.2 Modern Pottery Production on Aegina and Local Raw Materials	74
C.2.3 Material Prospection, Sampling and Characterisation	76
C.2.4 Geological and Modern Pottery Samples from Aegina: Petrographic and Chemical Analysis	78
C.2.4.1 The Geological Samples	78
C.2.4.2 The Modern Pottery Samples	81
C.3 The Petrographic and Chemical Analysis of the Pottery from Kolonna: Looking for Patterns in Composition and Texture	93
C.3.1 Petrographic Analysis – Fabric Groups of the Kolonna Pottery	93
C.3.1.1 Fabric Group 1 (FG 1): Noncalcareous Volcanic Fabric	93

C.3.1.2	Fabric Group 2 (FG 2): Calcareous Volcanic Fabric	99
C.3.1.3	Fabric Group 3 (FG 3): Noncalcareous Metamorphic Fabric	104
C.3.1.4	Fabric Group 4 (FG 4): Sand-tempered Fabric	106
C.3.1.5	Fabric Group 5 (FG 5): Siltstone-tempered Fabric	108
C.3.1.6	Fabric Group 6 (FG 6): Silicate and Carbonate Fabric	109
C.3.1.7	Fabric Group 7 (FG 7): Volcanic and Metamorphic Fabric	112
C.3.1.8	Fabric Group 8 (FG 8): Fine Silicate Fabric	113
C.3.1.9	Fabric Group 9 (FG 9): Fine Fossiliferous Fabric	115
C.3.1.10	Fabric Group 10 (FG 10): Fine Calcareous Fabric	116
C.3.1.11	Fabric Group 11 (FG 11): Fine Calcareous Fabric with Textural Concentration Features	117
C.3.1.12	Fabric Group 12 (FG 12): Very Fine Fabric	118
C.3.1.13	Fabric Group 13 (FG 13): Semi-fine Calcareous and Micaceous Fabric	118
C.3.1.14	'SINGLES': Fine Fabrics	119
C.3.1.15	'SINGLES': Medium Coarse to Coarse Fabrics	126
C.3.2	Chemical Analysis	128
C.3.2.1	First Assessment of Chemical Data	128
C.3.2.2	Comparative Assessment of Chemical and Petrographic Data	129
C.4	Understanding Patterns in Analytical Data: Provenance and Technology of Kolonna Ceramics	131
C.4.1	Local Aeginetan Ceramic Fabrics: Sources of Raw Materials and Technologies	131
C.4.1.1	The Evidence from Petrographic Analysis	131
C.4.1.2	The Evidence from Chemical Analysis	136
C.4.2	Fabrics of Imported Pottery at Kolonna: Provenance and Technology	139
C.4.2.1	Fabric Group 3: NonCalcareous Metamorphic Fabrics	139
C.4.2.2	Fabric Group 4: Sand-tempered Fabrics	140
C.4.2.3	Fabric Group 5: Siltstone-tempered Fabrics	141
C.4.2.4	Fabric Group 6: Silicate and Carbonate Fabrics	142
C.4.2.5	Fabric Group 7: Volcanic and Metamorphic Fabric	143
C.4.2.6	Fabric Group 8: Fine Silicate Fabric	143
C.4.2.7	Fabric Group 9: Fine Fossiliferous Fabric	144
C.4.2.8	Fabric Groups 10 (Fine Calcareous Fabric), 11 (Fine Calcareous Fabric with Textural Concentration Features), 12 (Very Fine Fabric) and 13 (Semi-fine Calcareous and Micaceous Fabric)	144
C.4.3	'Singles'	145

SECTION D. POTTERY TYPES AT KOLONNA (EBA III TO LBA): INTEGRATING MORPHOLOGICAL, TECHNOLOGICAL AND COMPOSITIONAL DATA

D.1	Early Bronze Age III Pottery	157
D.1.1	Locally Produced Pottery – History of Research	157
D.1.2	Imported Pottery – History of Research	157
D.1.3	Pattern-painted Pottery	158
D.1.3.1	Matt Dark on Light Pattern-painted Pottery	158
D.1.3.2	Lustrous Dark on Light Pattern-painted Pottery	163
D.1.3.3	Matt Pattern-painted Pottery, Light on Dark	166
D.1.4	Solidly Painted and Burnished Pottery	166
D.1.4.1	Solidly Painted and Burnished Pottery, Dark	166
D.1.4.2	Solidly Painted and Burnished Pottery, Red	168
D.1.5	Solidly Painted and Unburnished Pottery	168
D.1.5.1	Solidly Painted and Unburnished Pottery, Dark	168
D.1.5.2	Solidly Painted and Unburnished Pottery, Red	169
D.1.6	Unpainted and Burnished Pottery	170
D.1.6.1	Unpainted and Burnished Pottery, Dark	170

D.1.7 Unpainted Pottery	172
D.1.7.1 Unpainted and Unburnished Pottery, Dark	172
D.2 Middle Bronze Age Pottery	173
D.2.1 Locally Produced Pottery – History of Research	173
D.2.1.1 Matt-painted Pottery	173
D.2.1.2 Solidly Painted Pottery	176
D.2.1.3 Bichrome-/Polychrome-painted Pottery	176
D.2.1.4 Minoan Type Pottery Produced on Aegina	176
D.2.1.5 Unpainted MBA Pottery	177
D.2.2 Imported Pottery – History of Research	178
D.2.2.1 Lustrous-Decorated and so-called Minoanizing Pottery	178
D.2.2.2 Minoan Imports	180
D.2.2.3 Gray Minyan	181
D.2.2.4 Cycladic Imports	185
D.2.3 Pattern-painted Pottery	187
D.2.3.1 Matt Pattern-painted Pottery, Dark on Light	187
D.2.3.2 Lustrous Pattern-painted Pottery, Dark on Light	197
D.2.3.3 Matt Pattern-painted Pottery, Light on Dark	198
D.2.3.4 Polychrome Pattern-painted Pottery	201
D.2.4 Solidly Painted Pottery	202
D.2.4.1 Solidly Painted and Polished Pottery, Dark	202
D.2.4.2 Solidly Painted and Burnished Pottery, Dark	203
D.2.4.3 Solidly Painted and Unburnished Pottery, Dark	206
D.2.4.4 Solidly Painted and Polished Pottery, Red	206
D.2.4.5 Solidly Painted and Burnished Pottery, Red	207
D.2.4.6 Solidly Painted and Unburnished Pottery, Red	210
D.2.5 Unpainted Pottery	210
D.2.5.1 Unpainted and Polished Pottery, Dark	210
D.2.5.2 Unpainted and Polished Pottery, Gray	211
D.2.5.3 Unpainted and Burnished Pottery, Gray	213
D.2.5.4 Unpainted and Burnished Pottery, Red	215
D.2.5.5 Unpainted and Unburnished Pottery, Gray	216
D.2.5.6 Unpainted and Unburnished Pottery, Light	216
D.2.5.7 Unpainted and Unburnished Pottery, Dark	217
D.3 Late Bronze Age (Mycenaean Pottery)	220
D.3.1 Locally Produced Pottery – History of Research	220
D.3.1.1 Lustrous (‘Mycenaean Style’) Pattern-painted Pottery	220
D.3.1.2 Matt-painted Pottery	221
D.3.1.3 Solidly Painted Pottery	222
D.3.1.4 Unpainted Pottery	223
D.3.2 Imported Pottery – History of Research	224
D.3.2.1 Lustrous (‘Mycenaean’) Pattern-painted Pottery	224
D.3.2.2 Solidly Painted Pottery	224
D.3.2.3 Unpainted Pottery	225
D.3.3 Pattern-painted Pottery	225
D.3.3.1 Lustrous (‘Mycenaean’) Pattern-painted, Dark on Light Pottery	225
D.3.3.2 Matt Pattern-painted, Dark on Light Pottery	230
D.3.4 Solidly Painted Pottery	231
D.3.4.1 Solidly Painted and Polished Pottery, Dark	231
D.3.4.2 Solidly Painted and Polished Pottery, Red	232
D.3.4.3 Solidly Painted and Burnished Pottery, Red	232
D.3.4.4 Solidly Painted and Unburnished Pottery, Dark	233

D.3.4.5 Solidly Painted and Unburnished Pottery, Red	234
D.3.5 Unpainted Pottery	234
D.3.5.1 Unpainted and Polished Pottery, Light	235
D.3.5.2 Unpainted and Unburnished Pottery, Light	235
D.4 Reference Group Early Bronze Age II	236
D.5 Reference Group Late Classical Pottery	239
SECTION E. THE PRODUCTION AND CIRCULATION OF AEGINETAN POTTERY FROM EBA III TO THE END OF THE LBA: A SUMMARY (With a contribution by B. Lis)	
E.1 Aeginetan Pottery Outside the Island	241
E.1.1 Early Bronze Age II and Earlier	241
E.1.2 Early Bronze Age III	242
E.1.3 Middle Bronze Age	242
E.1.4 Late Bronze Age	243
E.2 Aeginetan Pottery Production	247
E.2.1 Early Bronze Age II: The Background	247
E.2.2 Early Bronze Age III	248
E.2.3 Middle Bronze Age	250
E.2.4 Late Bronze Age	253
APPENDIX 1. SAMPLES OF BRONZE AGE POTTERY FROM KOLONNA: SUMMARY OF ARCHAEOLOGICAL, PETROGRAPHIC AND CHEMICAL EVIDENCE	259
APPENDIX 2. SCANNING ELECTRON MICROSCOPY OF AEGINETAN POTTERY SAMPLES FROM KOLONNA (E. Kiriati and I. Iliopoulos)	269
CATALOGUE	273
Bibliography	351
Topographical Index	365
Index of Pottery styles	367
List of Tables	369
List of Figures	371
Figures	379

ABBREVIATIONS USED IN TEXT AND TABLES

a	angular	MG	Macroscopic Group
AEG	Aegina	MH	Middle Helladic
AGS	Aegina Geological Sample	NAA	Neutron Activation Analysis
AMPS	Aegina Modern Pottery Sample	O	Open (vessel shape)
a-r	angular to rounded	O/C	Open/Closed (vessel shape)
AREP	Aegina Fabric Replication	OES	Optical Emission Spectroscopy
ARF	Argillaceous Rock Fragment	PCA	principal components analysis
a-sr	angular to subrounded	PET	Polyethylene Terephthalate
bf	buff	PPL	Plane Polarised Light
bl	black	ppm	parts per million
br	brown	r	rounded
c	coarse	r.s.d.	relative standard deviation
C	Closed (vessel shape)	rd	red
c:f	coarse to fine material	s	single
c:f:v	the ratio of coarse fraction to fine fraction to voids	sa	subangular
ca. or c.	approximately	sa-sr	subangular to subrounded
DoL	Dark on Light	SEM	Scanning Electron Microscopy
EBA	Early Bronze Age	SING	Single
EH	Early Helladic	sr	subrounded
ext. (angle)	extinction (angle)	sr-r	subrounded-rounded
f	fine	sr-sa	subrounded-rounded to subangular
FB	Feature Base (Form Boden)	Tcfs	Textural concentration features
FG	Fabric Group	TD	Tree Diagramm
FHA	Feature Handle Attachment (Form Henkelan-bringung)	v	variant
fov	field of view	w	kiln waster
FPD	Feature Plastic Deoration (Form Plastischer Dekor)	wr	well rounded
FR	Feature Rim (Form Rand)	XP	Cross Polars
FTA	Feature Technic (Feature Technik)	YR	yellow red
FT	Feature potters wheel (Feature Töpferscheibe)		
FW	Feature Body (Form Wand)		Additional abbreviations used only in the catalogue
IAEA	International Atomic Energy Agency	BDM	Boden Durchmesser
ICP-OES	Inductively Coupled Plasma Atomic Emission Spectroscopy	erh.	erhalten
KOL	Kolonna Sample Number (used for prehistoric pottery)	FONr	Fundort Nummer
LBA	Late Bronze Age	H	Höhe
LD	Lustrous Decorated	kanteng.	kantengerundet
LH	Late Helladic	Klass.	Klassifikation
LoD	Light on Dark	längl.	länglich
m	medium	längl.- sphär.	länglich bis sphärisch
Ma	millions of years	m. längl.	mäßig länglich
max.	maximum	RDM	Rand Durchmesser
MBA	Middle Bronze Age	sphär.	sphärisch
MET	Method	tlw.	teilweise
		WDM	Wand Durchmesser

BIBLIOGRAPHICAL ABBREVIATIONS

AA	Archäologischer Anzeiger	IstMitt	Istanbuler Mitteilungen
ActaPraehistA	Acta praehistorica et archaeologica	JAS	Journal of Archaeological Science
ArchDelt	Archaiologikon Deltion	JHS	The Journal of Hellenic Studies
AEphem	Archaiologike Ephemeris	Keos	Keos. Results of excavations conducted by the University of Cincinnati under the auspices of the American School of Classical Studies at Athens
AEMTH	Archaiologiko Ergo sti Makedonia kai Thraki	Lerna	Lerna. A preclassical site in the Argolid. Results of excavations conducted by the American School of Classical Studies at Athens
AJA	American Journal of Archaeology	ÖJh	Jahreshefte des Österreichischen Archäologischen Institutes in Wien
Akamas	Akamas. Omilos Anadexis Mnimeion Salaminos. Newsletter	ÖJhBeibl	Jahreshefte des Österreichischen Archäologischen Institutes in Wien, Beiblatt
AM	Mitteilungen des Deutschen Archäologischen Instituts. Athenische Abteilung	OpAth	Opuscula Atheniensia. Acta Inst. Athen. Regni Sueciae
ArchNews	Archaeological News	PCPS	Proceedings of the Cambridge Philological Society
BAM	Beiträge zur ur- und frühgeschichtlichen Archäologie des Mittelmeer-Kulturraumes	Prakt	Praktika tes en Athenais Archaiologikes Etaireias
BAR International series	British Archaeological Reports: International series	PZ	Prähistorische Zeitschrift
BCH	Bulletin de Correspondance Hellénique	SIMA	Studies in Mediterranean archaeology
Bjb	Bonner Jahrbücher des rheinischen Landesmuseums in Bonn und des Vereins von Altertumsfreunden	SkrAth	Skrifter utg. av Svenska institutet i Athen
BPW	Berliner Philologische Wochenschrift	SMEA	Studi micenei ed egeo-anatolici
BSA	The Annual of the British School at Athens	TÜBA-AR	Türkiye Bilimler Akademisi Arkeoloji Dergisi
CChEM	Contributions to the Chronology of the Eastern Mediterranean	UMI	University Microfilms International
FuF	Forschungen und Funde		
Hesperia	Hesperia. Journal of the American School of Classical Studies at Athens		

