

UC Irvine

Unicode Project

Title

A proposal to encode the ancient Greek musical system in UCS

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PROPOSAL SUMMARY FORM

A. Administrative

1. Title

Proposal to encode Ancient Greek Musical Symbols in the UCS

2. Requester's name

Thesaurus Linguae Graecae Project (University of California, Irvine) and UTC

3. Requester type

Expert contribution

4. Submission date:

2002-11-07

5. Requester's reference

6. Completion

This is a complete proposal.

B. Technical - General

1. The proposal is for addition of a new character block:

If yes, proposed name:

Archaic Greek Musical Notation (1D200-1D24F)

2. Number of characters in proposal:

70

3. Proposed category

Category B.2

4. Proposed Level of Implementation:

Level 1 for characters 1-66 and 70.

Level 3 for characters 67-69.

5a. Character names provided?

Yes.

5b. Character names in accordance with guidelines

Yes.

5c. Character shapes reviewable?

Yes.

6a. Who will provide the appropriate computerized font for publishing the standard?

David Perry, James Kass, TLG Project

6b. Font currently available?

Yes.

6c. Font format

True Type

7a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?

Yes.

7b. Are published examples of proposed characters attached?

Yes.

8. Does the proposal address other aspects of character data processing?

No.

C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before?

No.

2. Has contact been made to members of the user community?

Yes. The TLG has been in contact with a great number of experts. Earlier versions of this proposal have been posted online and received comments by members of the profession. The proposal was extensively reviewed by Professor William Johnson, University of Cincinnati and Dr. David Creese, University of St. Andrews, Scotland.

3. Information on the user community for the proposed characters

Scholarly community.

4. The context of use for the proposed characters (type of use; common or rare)

Use varies. Some characters are common in extant Greek texts. Some appear less often.

5. Are the proposed characters in current use by the user community?

Yes. Characters are present in various editions of Greek texts and used extensively by scholars and students of Greek as well as individuals interested in the study of ancient Greek music.

6. After giving due considerations to the principles in *Principles and Procedures document*, must the proposed characters be entirely in the BMP?

No, Plane 1 (SMP).

7. Should the proposed characters be kept together in a contiguous range (rather than being scattered)?

Yes.

8. Can any of the proposed characters be considered a presentation form of an existing character or character sequence?

No.

9. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters?

No.

10. Can any of the proposed character(s) be considered to be similar (in appearance or function) to an existing character?

Yes, three of the proposed characters resemble (but are not identical) to Greek or Roman alphabetic characters.

11a. Does the proposal include use of combining characters and/or use of composite sequences

Yes (combining characters).

11b. Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?

No. Too numerous to list.

12. Does the proposal contain characters with any special properties such as control function or similar semantics?

No.

13. Does the proposal contain any Ideographic compatibility character(s)?

No.

Proposal

Introduction

Ancient Greeks developed their own distinct system of musical notation for both vocal and instrumental melody. These characters appear in a large number of ancient texts¹ and their modern publications as well as in modern studies on ancient music. UCS has already encoded Western and Byzantine Musical Symbols in Plane 1. With the addition of the Ancient Greek Musical Symbols all characters needed for the encoding of Greek music will be present in the Standard.

Several ancient Greek musical symbols resemble standard Greek letters and are not included in this proposal. The musical symbols that are formed from inverted or rotated Greek letters are proposed because they are distinct characters and should not be confused with standard Greek letters. Three symbols that are similar but not identical to already encoded Greek or Roman letters are proposed as separate codepoints.

Ancient Greek Musical Notation

The Greeks had two systems of musical notation which correspond note for note with each other: one for the vocal and one for the instrumental melody (see overview of the two systems of notation below). The whole scheme covers a little over three octaves. The symbols form groups of three. The bottom symbol in each triad represents a ‘natural’ note on a diatonic scale. The modern notes shown in the boxes are the conventional equivalents used in most scholarly literature. The other two symbols in each triad represent successive sharpenings of the ‘natural’ note.² There is no distinction in this system between enharmonic and chromatic scales.

Greek Vocal Notation

The characters proposed here represent simple rotations or reflections of the characters of the standard Greek alphabet. Greek Vocal Notation Symbols 1-24 are a set of variants on the whole Greek alphabet in reverse order. Greek Vocal Notation Symbols 49-54 are further variants of the last six letters of the standard Greek alphabet, again in reverse order.

Greek Instrumental Notation

The first two triads are variations on the last six letters of the Greek alphabet. The following twelve triads are formed thus: the first character is either a standard Greek letter or is a variant thereof; the second character in the triad is the first character rotated 90° counter-clockwise; the third is the first character reflected in the y-axis. The final three triads proposed all have variants of 039D GREEK CAPITAL LETTER ETA as

¹ Ranging from a fragment of Euripides’ *Orestes* to Christian hymns.

² West (1992) 255

their first symbol. The second and third symbols in each are based on diagonal slashes.³ Instrumental symbols that overlap with vocal, even at different pitches have not been included in this proposal. Also symbols that overlap with Greek alphabetic characters have not been repropoed.

The Font Used in this Proposal

The font used in this proposal was designed by David Perry with technical assistance by James Kass. The vast majority of the characters are variant forms of standard upper case Greek letters. We have created a font without serifs for reasons of clarity and because scholars usually type musical characters in fonts without serifs in order to distinguish them from standard letters usually represented with a serified font. It is not, however, prescriptive to represent Musical Symbols in a font without serifs.

Naming Conventions

We propose the standard names widely used by modern scholars. The naming convention is simple: Vocal Notation Symbol 1, Vocal Notation Symbol 2, etc. There is no standardized ancient system for naming these characters.

Character Properties

Characters 1D200-1D241 and 1D245 : “Symbol, other” (So)

Characters 1D242-1D244 : “Mark, nonspacing” (Mn).

³ See Winnington-Ingram (1978) 241-248

Bibliography

- Barker, A., "Music" in *OCD*³ (Oxford University Press, Oxford, 1996) 1003-1012
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- Bellermann, F., *Die Tonleitern und Musiknoten der Griechen* (Wiesbaden, 1969)
- Jan, K., *Musici scriptores Graeci* (Hildesheim, 1962)
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- Landels, J.G., *Music in Ancient Greece and Rome* (London, 1999)
- Larfeld, W., *Handbuch der griechischen Epigraphik 2.2. Die attischen Inschriften* (Leipzig, 1902)
- Mathiesen, T.J., *Apollo's Lyre: Greek music and music theory in Antiquity and the Middle Ages* (Lincoln & London, 1999)
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- Pöhlmann, E., *Denkmäler altgriechischer Musik* (Nuremberg, 1970)
- West, M.L., *Ancient Greek Music* (Oxford, 1992)
- Winnington-Ingram, R.P., "The First Notational Diagram of Aristides Quintilianus", in *Philologus* 117 (1973) 244-249
- Winnington-Ingram, R.P., "Two studies in Greek musical notation" in *Philologus* 122 (1978) 237-248
- Winnington-Ingram, R.P., *Aristides Quintiliani de musica libri tres* (Leipzig, 1963)

Overview of Archaic Greek Musical Notation⁴

Modern Equivalent	Notation Number	Vocal Characters	Instrumental Characters	Modern Equivalent	Notation Number	Vocal Characters	Instrumental Characters	Modern Equivalent	Notation Number	Vocal Characters	Instrumental Characters	Modern Equivalent	Notation Number	Vocal Characters	Instrumental Characters
					54	⊥	↘		33	Π	⊙		12	∩	⊞
					53	λ	↗		32	ρ	⊕		11	≍	⊞
			<i>a'</i>	52	⊕	↘		<i>a</i>	31	⊕	⊕	<i>A</i>	10	φ	⊞
					51	⊗	↘		30	τ	ϣ		9	⊥	⊗
					50	⊞	↘		29	γ	ϣ		8	⊞	⊞
<i>g''</i>	70	⊙	⊥	<i>g'</i>	49	⊙	⊥	<i>g</i>	28	φ	ϣ	<i>G</i>	7	⊗	⊞
	69	A'	↘		48	A	↘		27	χ	ι		6	⊥	τ
	68	B'	↘		47	B	↘		26	ψ	⊥		5	↘	γ
<i>f''</i>	67	Γ'	⊥	<i>f'</i>	46	Γ	⊥	<i>f</i>	25	Ω	ι	<i>F</i>	4	⊞	ρ
	66	Δ'	⊥		45	Δ	⊥		24	ν	ι		3	⊗	⊗
	65	E'	⊥		44	E	⊥		23	ρ	⊥		2	ϣ	ϣ
<i>e''</i>	64	Z'	⊥	<i>e'</i>	43	Z	⊥	<i>e</i>	22	ι	Γ	<i>E</i>	1	⊞	⊞
	63	H'	ν		42	H	ν		21	ν	⊥				
	62	Θ'	ν		41	Θ	ν		20	ϣ	⊥				
<i>d''</i>	61	ι'	↘	<i>d'</i>	40	ι	↘	<i>d</i>	19	γ	τ				
	60	K'	Δ		39	K	Δ		18	⊞	⊞				
	59	Λ'	Δ		38	Λ	Δ		17	⊞	⊞				
<i>c''</i>	58	M'	ν	<i>c'</i>	37	M	ν	<i>c</i>	16	↘	⊞				
	57	N'	⊗		36	N	⊗		15	κ	⊥				
	56	Ξ'	κ		35	Ξ	κ		14	ν	⊞				
<i>b'</i>	55	Ο'	κ	<i>b</i>	34	Ο	κ	<i>B</i>	13	ω	⊞				

⁴ Not including combining characters: Diseme, Triseme, Tetraseme and Pentaseme.

Archaic Greek Musical Notation: Characters Proposed

Full documentation available at: <http://www.tlg.uci.edu/Uni.prop.html>

Number		Name	Unicode	Comment
Ancient Greek Vocal Notation				
1	Ϸ	Greek Vocal Notation Symbol 1	1D200	= vocal E
2	ϸ	Greek Vocal Notation Symbol 2	1D201	= vocal first sharp of E
3	Ϲ	Greek Vocal Notation Symbol 3	1D202	= vocal second sharp of E · Greek Instrumental Notation Symbol 3 = instrumental second sharp of E
4	Ϻ	Greek Vocal Notation Symbol 4	1D203	= vocal F
5	ϻ	Greek Vocal Notation Symbol 5	1D204	= vocal first sharp of F
6	ϼ	Greek Vocal Notation Symbol 6	1D205	= vocal second sharp of F · Greek Instrumental Notation Symbol 21 = instrumental second sharp of d
7	Ͻ	Greek Vocal Notation Symbol 7	1D206	= vocal G · Greek Instrumental Notation Symbol 9 = instrumental second sharp of G
8	Ͼ	Greek Vocal Notation Symbol 8	1D207	= vocal first sharp of G
9	Ͽ	Greek Vocal Notation Symbol 9	1D208	= vocal second sharp of G · Greek Instrumental Notation Symbol 44 = instrumental first sharp of e'
10	Ͽ̄	Greek Vocal Notation Symbol 10	1D209	= vocal A This is a modification of 038F, and is therefore not the same as 03D8.
11	Ͽ̇	Greek Vocal Notation Symbol 11	1D20A	= vocal first sharp of A
12	Ͽ̈	Greek Vocal Notation Symbol 12	1D20B	= vocal second sharp of A
13	Ͽ̉	Greek Vocal Notation Symbol 13	1D20C	= vocal B
14	Ͽ̊	Greek Vocal Notation Symbol 14	1D20D	= vocal first sharp of B · Greek Instrumental Notation Symbol 41 = instrumental first sharp of d' Similar to 0056 LATIN CAPITAL LETTER V
15	Ͽ̋	Greek Vocal Notation Symbol 15	1D20E	= vocal second sharp of B · Greek Instrumental Notation Symbol 35 = instrumental first sharp of b
16	Ͽ̌	Greek Vocal Notation Symbol 16	1D20F	= vocal c This character has two glyph variants: — and \. Therefore this character may not be unified with Greek Instrumental Notation Symbol 48. These glyph variants appear in different sources.
17	Ͽ̍	Greek Vocal Notation Symbol 17	1D210	= vocal first sharp of c
18	Ͽ̎	Greek Vocal Notation Symbol 18	1D211	= vocal second sharp of c · Greek Instrumental Notation Symbol 15 = instrumental second sharp of B
19	Ͽ̏	Greek Vocal Notation Symbol 19	1D212	= vocal d

20	Ϝ	Greek Vocal Notation Symbol 20	1D213	= vocal first sharp of d · Greek Instrumental Notation Symbol 28 = instrumental g This is a modification of 0395, and is therefore not the same as 0046
21	ϝ	Greek Vocal Notation Symbol 21	1D214	= vocal second sharp of d
22	Ϟ	Greek Vocal Notation Symbol 22	1D215	= vocal e
23	Ϛ	Greek Vocal Notation Symbol 23	1D216	= vocal first sharp of e This is a modification of 0392, and is therefore not the same as 0052
24	ϛ	Greek Vocal Notation Symbol 24	1D217	= vocal second sharp of e
25	Ϝ	Greek Vocal Notation Symbol 50	1D218	= vocal first sharp of g'
26	ϝ	Greek Vocal Notation Symbol 51	1D219	= vocal second sharp of g'
27	Ϟ	Greek Vocal Notation Symbol 52	1D21A	= vocal a'
28	Ϛ	Greek Vocal Notation Symbol 53	1D21B	= vocal first sharp of a'
29	ϛ	Greek Vocal Notation Symbol 54	1D21C	= vocal second sharp of a' · Greek Instrumental Notation Symbol 20 = instrumental first sharp of d
Ancient Greek Instrumental Notation				
30	Α	Greek Instrumental Notation Symbol 1	1D21D	= instrumental E
31	Β	Greek Instrumental Notation Symbol 2	1D21E	= instrumental first sharp of e
32	Γ	Greek Instrumental Notation Symbol 4	1D21F	= instrumental F
33	Δ	Greek Instrumental Notation Symbol 5	1D220	= instrumental first sharp of F
34	Ε	Greek Instrumental Notation Symbol 7	1D221	= instrumental G
35	Ϝ	Greek Instrumental Notation Symbol 8	1D222	= instrumental first sharp of G
36	Α	Greek Instrumental Notation Symbol 11	1D223	= instrumental first sharp of A
37	Β	Greek Instrumental Notation Symbol 12	1D224	= Instrumental second sharp of A
38	Γ	Greek Instrumental Notation Symbol 13	1D225	= instrumental B
39	Δ	Greek Instrumental Notation Symbol 14	1D226	= instrumental first sharp of B
40	Ε	Greek Instrumental Notation Symbol 17	1D227	= instrumental first sharp of c
41	Ϝ	Greek Instrumental Notation Symbol 18	1D228	= instrumental second sharp of c
42	Ζ	Greek Instrumental Notation Symbol 19	1D229	= instrumental d
43	Α	Greek Instrumental Notation Symbol 23	1D22A	= instrumental first sharp of e
44	Β	Greek Instrumental Notation Symbol 24	1D22B	= instrumental second sharp of e
45	Γ	Greek Instrumental Notation Symbol 25	1D22C	= instrumental f
46	Δ	Greek Instrumental Notation Symbol 26	1D22D	= instrumental first sharp of f
47	Ε	Greek Instrumental Notation Symbol 27	1D22E	= instrumental second sharp of f
48	Ϝ	Greek Instrumental Notation Symbol 29	1D22F	= instrumental first sharp of g
49	ϝ	Greek Instrumental Notation Symbol 30	1D230	= instrumental second sharp of g
50	Α	Greek Instrumental Notation Symbol 32	1D231	= instrumental first sharp of a
51	Β	Greek Instrumental Notation Symbol 36	1D232	= instrumental second sharp of b
52	Γ	Greek Instrumental Notation Symbol 37	1D233	= instrumental c'
53	Δ	Greek Instrumental Notation Symbol 38	1D234	= instrumental first sharp of c'
54	Ε	Greek Instrumental Notation Symbol 39	1D235	= instrumental second sharp of c'
55	Ζ	Greek Instrumental Notation Symbol 40	1D236	= instrumental d'
56	Ϝ	Greek Instrumental Notation Symbol 42	1D237	= instrumental second sharp of d'

57	⏏	Greek Instrumental Notation Symbol 43	1D238	= instrumental e´
58	⏐	Greek Instrumental Notation Symbol 45	1D239	= instrumental second sharp of e´
59	/	Greek Instrumental Notation Symbol 47	1D23A	= instrumental first sharp of f´ Similar but not identical to 002F
60	\	Greek Instrumental Notation Symbol 48	1D23B	= instrumental second sharp of f´ Similar but not identical to 005C
61	⏏	Greek Instrumental Notation Symbol 49	1D23C	= instrumental g´
62	⏐	Greek Instrumental Notation Symbol 50	1D23D	= instrumental first sharp of g´
63	⏐	Greek Instrumental Notation Symbol 51	1D23E	= instrumental second sharp of g´
64	⏏	Greek Instrumental Notation Symbol 52	1D23F	= instrumental a´
65	⏐	Greek Instrumental Notation Symbol 53	1D240	= instrumental first sharp of a´
66	⏐	Greek Instrumental Notation Symbol 54	1D241	= instrumental second sharp of a´
Further Greek Musical Notation Symbols				
67	⏏	Greek Musical Triseme	1D242	Nonspacing
68	⏏	Greek Musical Tetraseme	1D243	Nonspacing
69	⏏	Greek Musical Pentaseme	1D244	Nonspacing
70	⏏	Greek Musical Leimma	1D245	

TABLE 1D200-1D25F: ARCHAIC GREEK MUSICAL NOTATION




































































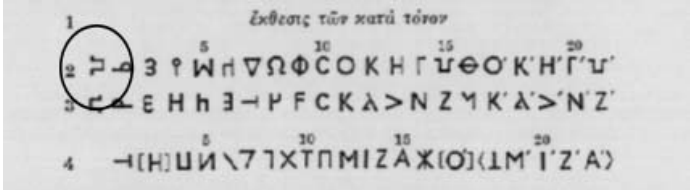
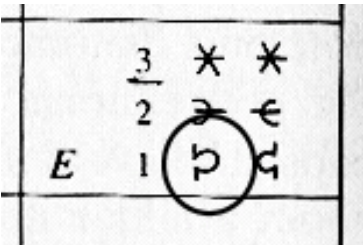
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2	 1D202	 1D212	 1D222	 1D232	 1D242
3	 1D203	 1D213	 1D223	 1D233	 1D243
4	 1D204	 1D214	 1D224	 1D234	 1D244
5	 1D205	 1D215	 1D225	 1D235	 1D245
6	 1D206	 1D216	 1D226	 1D236	 1D246
7	 1D207	 1D217	 1D227	 1D237	 1D247
8	 1D208	 1D218	 1D228	 1D238	 1D248
9	 1D209	 1D219	 1D229	 1D239	 1D249
A	 1D20A	 1D21A	 1D22A	 1D23A	 1D24A
B	 1D20B	 1D21B	 1D22B	 1D23B	 1D24B
C	 1D20C	 1D21C	 1D22C	 1D23C	 1D24C
D	 1D20D	 1D21D	 1D22D	 1D23D	 1D24D
E	 1D20E	 1D21E	 1D22E	 1D23E	 1D24E
F	 1D20F	 1D21F	 1D22F	 1D23F	 1D24F

TABLE 1D200-1D24F: ARCHAIC GREEK MUSICAL NOTATION


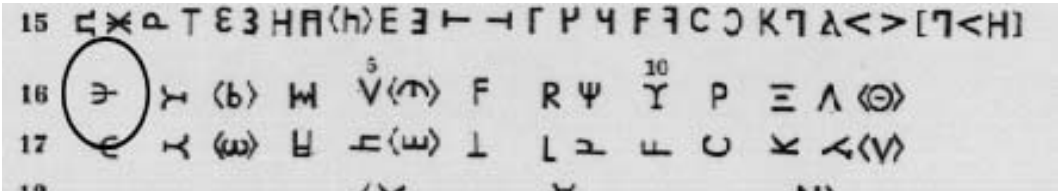
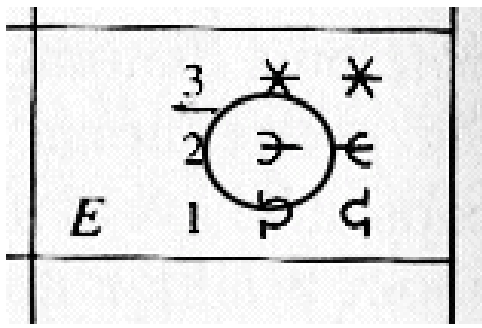
hex	Name	hex	Name
1D200	Greek Vocal Notation Symbol 1	1D240	Greek Instrumental Notation Symbol 53
1D201	Greek Vocal Notation Symbol 2	1D241	Greek Instrumental Notation Symbol 54
1D202	Greek Vocal Notation Symbol 3	1D242	Greek Musical Triseme
1D203	Greek Vocal Notation Symbol 4	1D243	Greek Musical Tetraseme
1D204	Greek Vocal Notation Symbol 5	1D244	Greek Musical Pentaseme
1D205	Greek Vocal Notation Symbol 6	1D245	Greek Musical Leimma
1D206	Greek Vocal Notation Symbol 7		
1D207	Greek Vocal Notation Symbol 8		
1D208	Greek Vocal Notation Symbol 9		
1D209	Greek Vocal Notation Symbol 10		
1D20A	Greek Vocal Notation Symbol 11		
1D20B	Greek Vocal Notation Symbol 12		
1D20C	Greek Vocal Notation Symbol 13		
1D20D	Greek Vocal Notation Symbol 14		
1D20E	Greek Vocal Notation Symbol 15		
1D20F	Greek Vocal Notation Symbol 16		
1D210	Greek Vocal Notation Symbol 17		
1D211	Greek Vocal Notation Symbol 18		
1D212	Greek Vocal Notation Symbol 19		
1D213	Greek Vocal Notation Symbol 20		
1D214	Greek Vocal Notation Symbol 21		
1D215	Greek Vocal Notation Symbol 22		
1D216	Greek Vocal Notation Symbol 23		
1D217	Greek Vocal Notation Symbol 24		
1D218	Greek Vocal Notation Symbol 50		
1D219	Greek Vocal Notation Symbol 51		
1D21A	Greek Vocal Notation Symbol 52		
1D21B	Greek Vocal Notation Symbol 53		
1D21C	Greek Vocal Notation Symbol 54		
1D21D	Greek Instrumental Notation Symbol 1		
1D21E	Greek Instrumental Notation Symbol 2		
1D21F	Greek Instrumental Notation Symbol 4		
1D220	Greek Instrumental Notation Symbol 5		
1D221	Greek Instrumental Notation Symbol 7		
1D222	Greek Instrumental Notation Symbol 8		
1D223	Greek Instrumental Notation Symbol 11		
1D224	Greek Instrumental Notation Symbol 12		
1D225	Greek Instrumental Notation Symbol 13		
1D226	Greek Instrumental Notation Symbol 14		
1D227	Greek Instrumental Notation Symbol 17		
1D228	Greek Instrumental Notation Symbol 18		
1D229	Greek Instrumental Notation Symbol 19		
1D22A	Greek Instrumental Notation Symbol 23		
1D22B	Greek Instrumental Notation Symbol 24		
1D22C	Greek Instrumental Notation Symbol 25		
1D22D	Greek Instrumental Notation Symbol 26		
1D22E	Greek Instrumental Notation Symbol 27		
1D22F	Greek Instrumental Notation Symbol 29		
1D230	Greek Instrumental Notation Symbol 30		
1D231	Greek Instrumental Notation Symbol 32		
1D232	Greek Instrumental Notation Symbol 36		
1D233	Greek Instrumental Notation Symbol 37		
1D234	Greek Instrumental Notation Symbol 38		
1D235	Greek Instrumental Notation Symbol 39		
1D236	Greek Instrumental Notation Symbol 40		
1D237	Greek Instrumental Notation Symbol 42		
1D238	Greek Instrumental Notation Symbol 43		
1D239	Greek Instrumental Notation Symbol 45		
1D23A	Greek Instrumental Notation Symbol 47		
1D23B	Greek Instrumental Notation Symbol 48		
1D23C	Greek Instrumental Notation Symbol 49		
1D23D	Greek Instrumental Notation Symbol 50		
1D23E	Greek Instrumental Notation Symbol 51		
1D23F	Greek Instrumental Notation Symbol 52		

Ancient Greek Vocal Notation


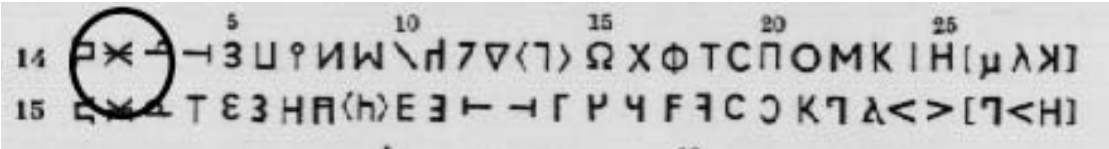
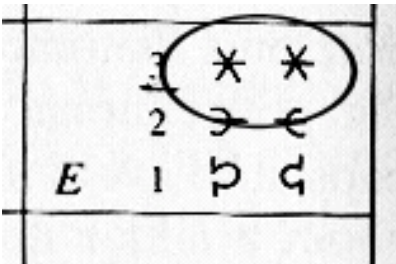
1. Greek Vocal Notation Symbol 1

Sign 	Unicode 1D200
Definition and comments This symbol is 03A9 GREEK CAPITAL LETTER OMEGA rotated 90° counter-clockwise. This represents the vocal E.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24 Example 2 West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	


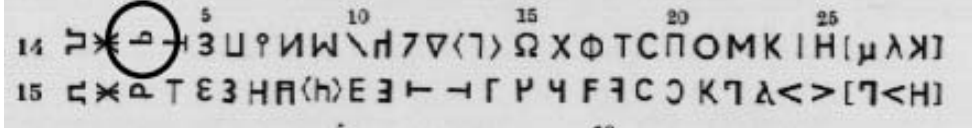
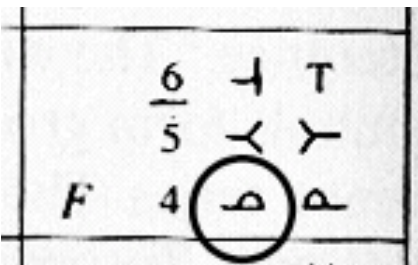
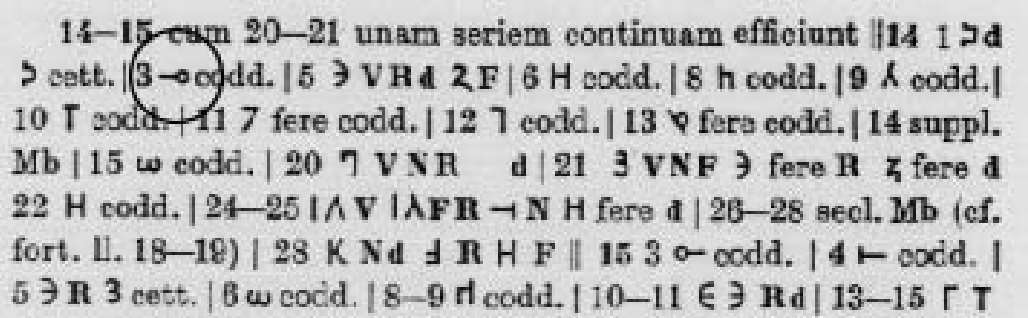
2. Greek Vocal Notation Symbol 2

Sign 	Unicode 1D201
Definition and comments This symbol is 03A8 GREEK CAPITAL LETTER PSI rotated 90° counter-clockwise. This represents the vocal first sharp of E.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11 	
Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24	
Example 2 West, M.L., <i>Ancient Greek Music</i> 	
West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	


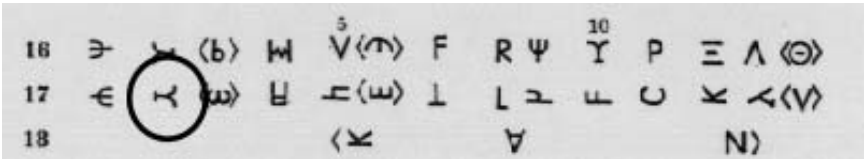
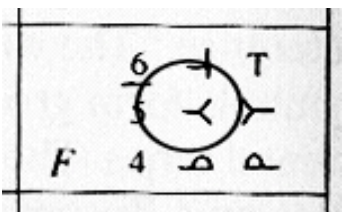
3. Greek Vocal Notation Symbol 3

Sign 	Unicode 1D202
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 3 <p>Definition and comments This symbol is 03A7 GREEK CAPITAL LETTER CHI with a horizontal line through the center. This represents the vocal second sharp of E.</p>	
<p>Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> <p>Example 2 West, M.L., <i>Ancient Greek Music</i></p>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	


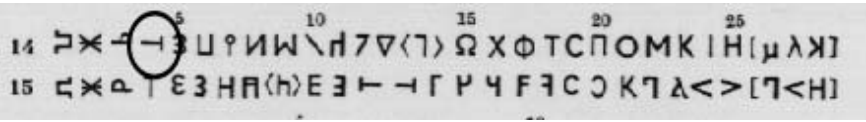
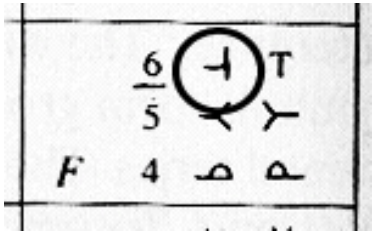
4. Greek Vocal Notation Symbol 4

Sign 	Unicode 1D203
Definition and comments This symbol is a variant form of 03A6 GREEK CAPITAL LETTER PHI rotated 90° clockwise and with the right arm and lower semi-circle removed. This represents the vocal F.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 Example 2 West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256 Example 3 (Glyph variant) Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 App. Crit.	

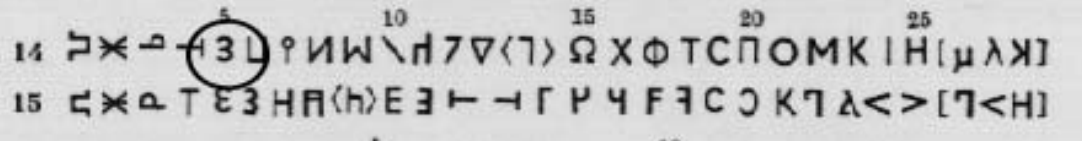
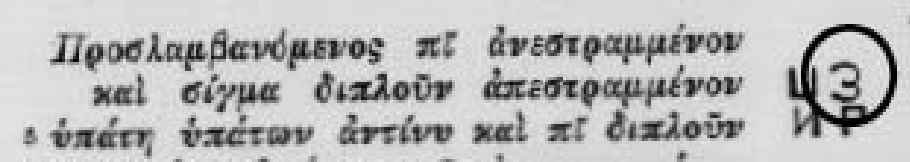
5. Greek Vocal Notation Symbol 5

Sign 	Unicode 1D204
Definition and comments This symbol is a 03A5 GREEK CAPITAL LETTER UPSILON rotated 90° clockwise. This represents the vocal first sharp of F. In Aristides Quintillianus, this symbol is used for Greek Instrumental Notation Symbol 5.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> Example 2 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	

6. Greek Vocal Notation Symbol 6


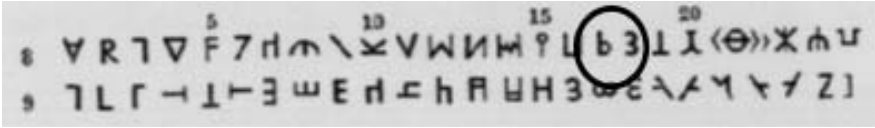
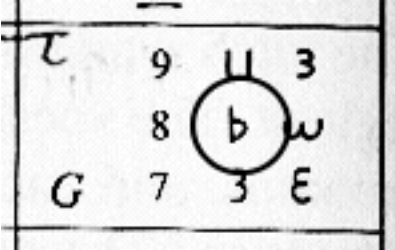
Sign 	Unicode 1D205
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 21 <p>Definition and comments This symbol is a 03A4 GREEK CAPITAL LETTER TAU rotated 90° clockwise. This represents the vocal second sharp of F.</p>	
<p>Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> <p>Example 2 West, M.L., <i>Ancient Greek Music</i></p>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	

7. Greek Vocal Notation Symbol 7


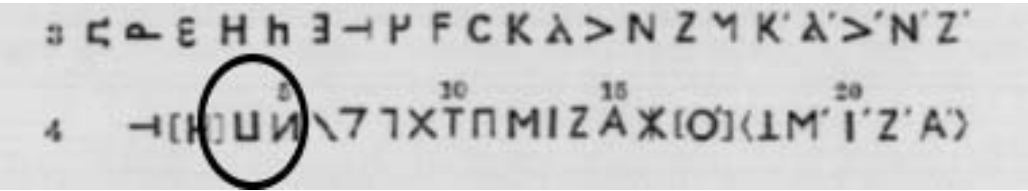
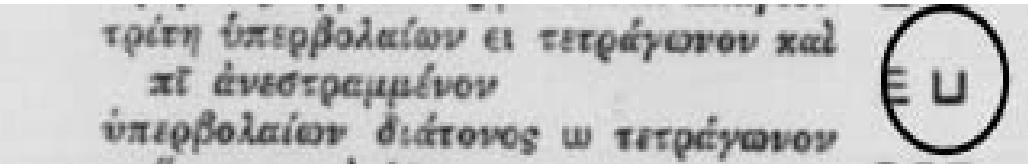
Sign 3	Unicode 1D206
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 9 <p>Definition and comments</p> <p>This symbol is most probably 03A3 GREEK CAPITAL LETTER SIGMA rounded and reflected in the y-axis, or is possibly a doubled GREEK CAPITAL LUNATE SIGMA reflected in the y-axis.⁵</p> <p>This represents the vocal G.</p>	
<p>Example 1 (Vocal notation)</p> <p>Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> <p>Example 2 (Instrumental notation)</p> <p>Alypius Mus., <i>Isagoge</i> Diat. 5</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373</p>	

⁵ For discussion on the origins of this character see Winnington-Ingram (1978) 240-241 who convincingly argues that a rounded capital letter Sigma is the most plausible solution.


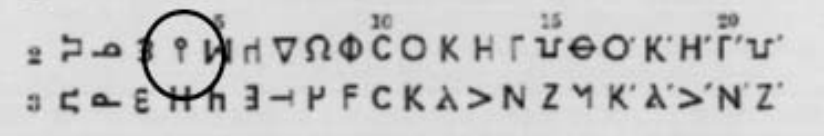
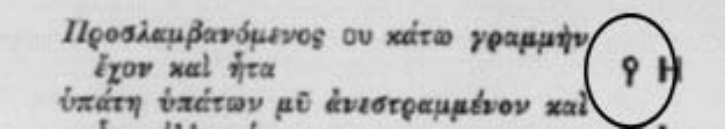
8. Greek Vocal Notation Symbol 8

Sign 	Unicode 1D207
Definition and comments This symbol is 03A1 GREEK CAPITAL LETTER RHO reflected in the x-axis. This represents the vocal first sharp of G.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25 Example 2 West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	

9. Greek Vocal Notation Symbol 9


Sign 	Unicode 1D208
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 44 <p>Definition and comments This symbol is 03A0 GREEK CAPITAL LETTER PI rotated 180°. This represents the vocal second sharp of G.</p>	
<p>Example 1 (Vocal notation) Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p> <p>Example 2 (Instrumental notation) Alypius Mus., <i>Isagoge</i> Diat. 2</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 370</p>	

10. Greek Vocal Notation Symbol 10


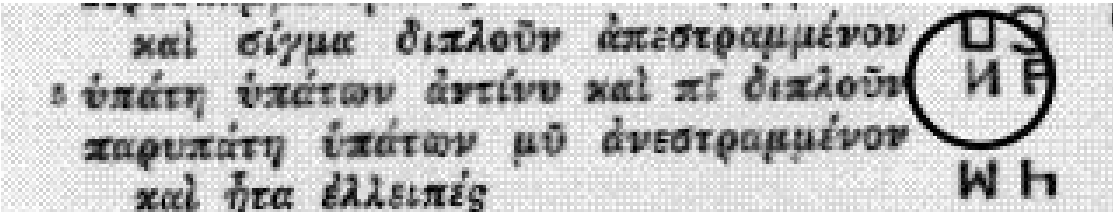
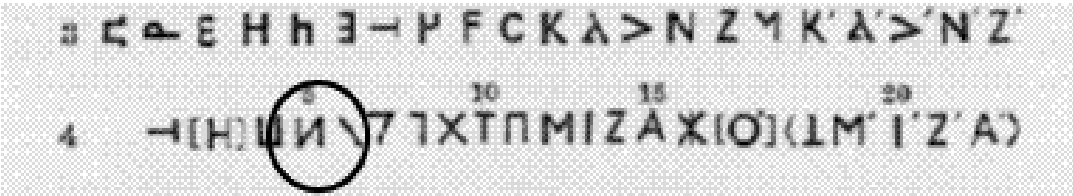
Sign 	Unicode 1D209
Definition and comments This is a modification of 039F GREEK CAPITAL LETTER OMICRON: the character has been reduced in size, and a short bar is added below. ⁶ This symbol is visually close to 03D8 ARCHAIC KOPPA although the origin of the letter is quite different. This represents the vocal A.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p> Example 2 Alypius Mus., <i>Isagoge</i> Diat. 2  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 370</p>	

⁶ That this is a variant omicron not based on 03DE GREEK LETTER KOPPA can be seen by its position in the series: following the variant of Pi and preceding the variant of Xi.


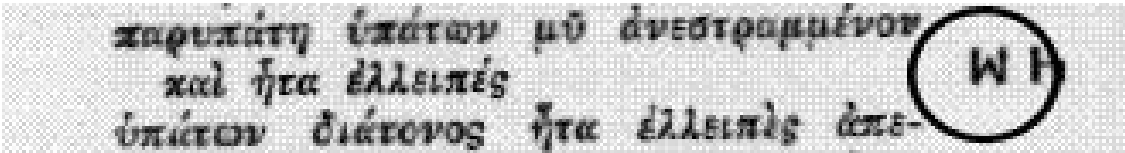
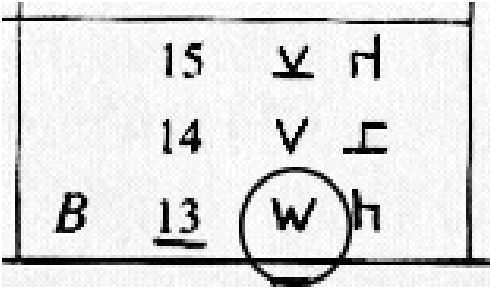
11. Greek Vocal Notation Symbol 11

Sign 	Unicode 1D20A
Definition and comments This symbol is 039C GREEK CAPITAL LETTER XI rotated 90° counter-clockwise. This represents the vocal first sharp of A.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div> </div> <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 Alypius Mus., <i>Isagoge</i> Diat. 8 <div> </div> <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 376</p> Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11 <div> </div> <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p>	


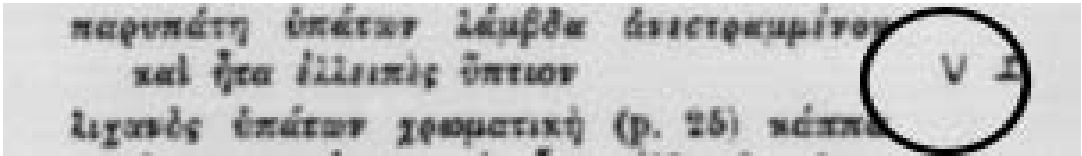
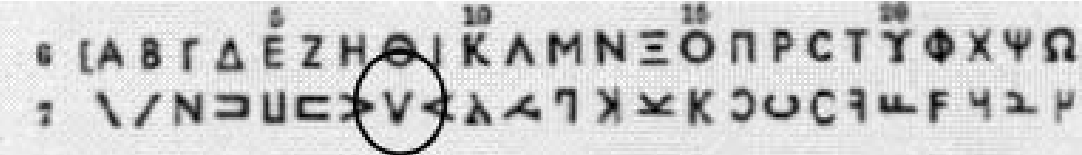
12. Greek Vocal Notation Symbol 12

Sign 	Unicode 1D20B
Definition and comments This symbol is 039C GREEK CAPITAL LETTER NU reflected in the y-axis. This represents the vocal second sharp of A.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 5  <p>καὶ σίγμα διπλοῦν ἀνεστραμμένον ὑπάτη ὑπάτων ἀντίου καὶ π̄ διπλοῦν παρυπάτη ὑπάτων μὴ ἀνεστραμμένον καὶ ἦτα ἑλλειπίς</p> <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>⊖ ς ρ ε η η ε - ρ φ κ λ > ν ζ γ κ' α' > ν' ζ' 4 - [η] ψ η λ 7 τ χ τ π μ ι ζ α χ (ο) (ι μ' ι' ζ' α')</p> <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p>	



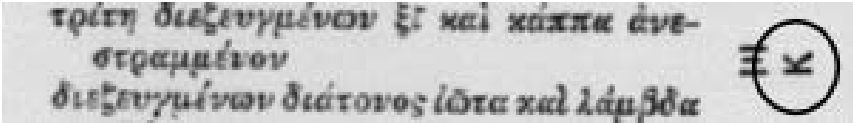
13. Greek Vocal Notation Symbol 13

Sign 	Unicode 1D20C
Definition and comments This symbol is 039C GREEK CAPITAL LETTER MU rotated 180°. This represents the vocal B.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 5  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373	
Example 2 (Glyph variant) West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	

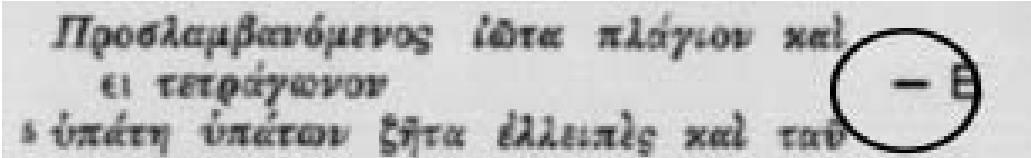
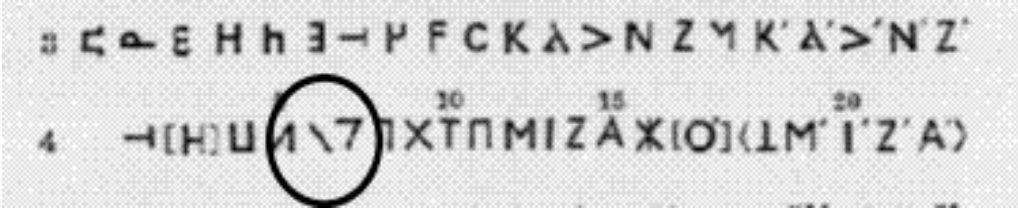
14. Greek Vocal Notation Symbol 14

Sign 	Unicode 1D20D
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 41 <p>Definition and comments This symbol is 039B GREEK CAPITAL LETTER LAMBDA rotated 180°. This represents the vocal first sharp of B.</p>	
<p>Example 1 (Vocal) Alypius Mus., <i>Isagoge</i> Diat. 2</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373</p> <p>Example 2 (Instrumental) Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	

15. Greek Vocal Notation Symbol 15


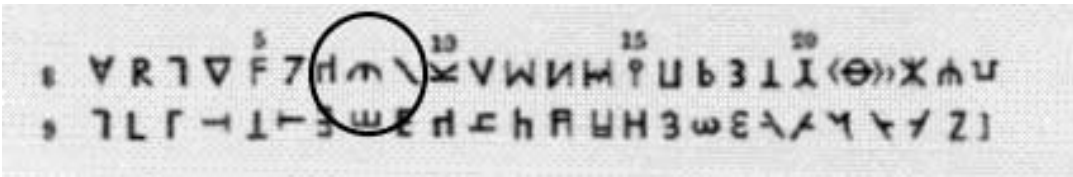
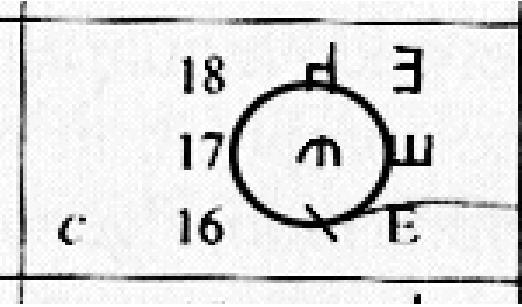
Sign 	Unicode 1D20E
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 35 <p>Definition and comments</p> <p>This symbol is 039A GREEK CAPITAL LETTER KAPPA rotated 90° counter-clockwise.</p> <p>This represents the vocal second sharp of B.</p>	
<p>Example 2 (Vocal)</p> <p>Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p> <p>Example 1 (Instrumental)</p> <p>Alypius Mus., <i>Isagoge</i> Diat. 2</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 370</p>	

16. Greek Vocal Notation Symbol 16


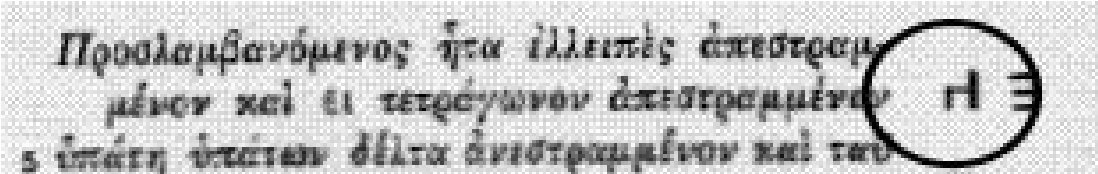
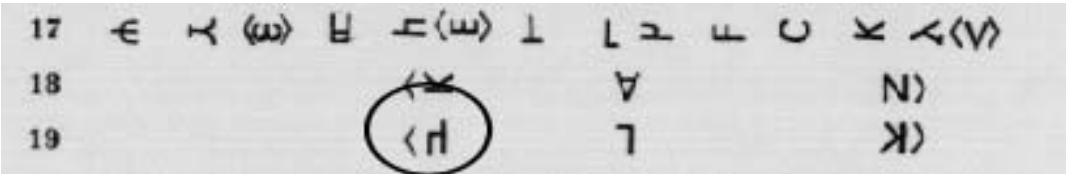
Sign 	Unicode 1D20F
Definition and comments There are two glyph variants of this character: — and \ both forms seem to be widely used. ⁷ Since this has a glyph variant of — it is not the same as Greek Instrumental Notation Symbol 48. While the codepoint 2014 covers one glyph variant, there is no single Unicode character which currently unifies these glyph variants. This symbol represents vocal c.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 7  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 375</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	

⁷ See Winnington-Ingram (1973) 246-7


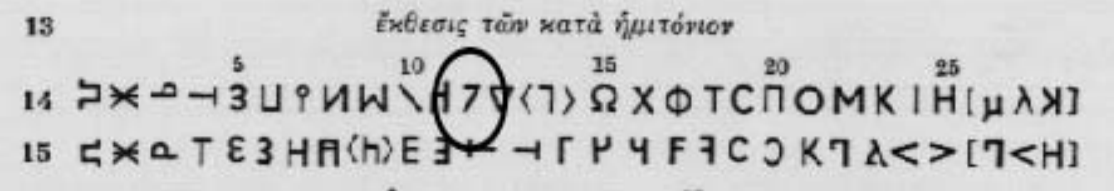
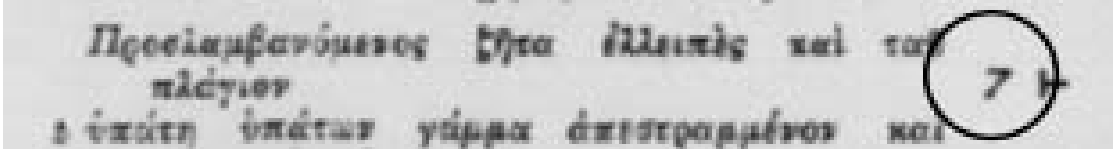
17. Greek Vocal Notation Symbol 17

Sign 	Unicode 1D210
Definition and comments This symbol is half of 0398 GREEK CAPITAL LETTER THETA with the open end face down. This symbol represents the vocal first sharp of c.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p> Example 2 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	

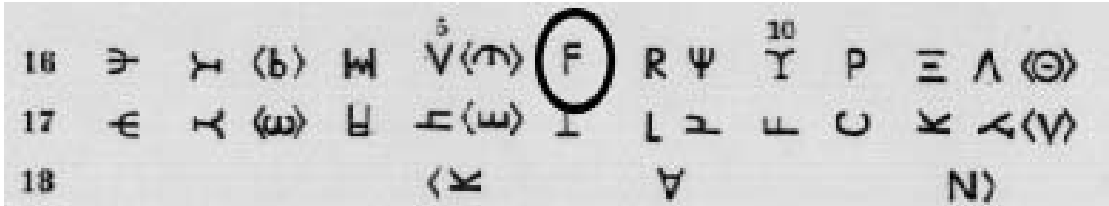
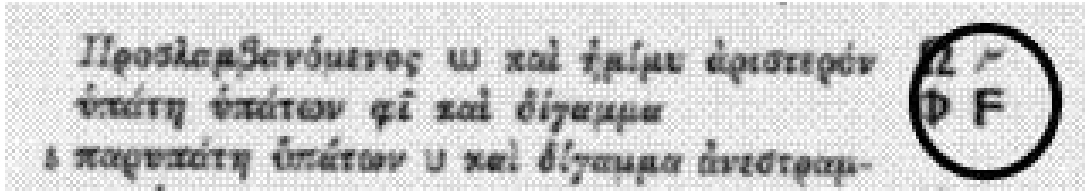
18. Greek Vocal Notation Symbol 18

Sign 	Unicode 1D211
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 15 <p>Definition and comments</p> <p>This symbol is 0397 GREEK CAPITAL LETTER ETA with the top half of the left hand vertical bar removed.</p> <p>This symbol represents the vocal second sharp of c.</p>	
<p>Example 1 (Vocal)</p> <p>Alypius Mus., <i>Isagoge</i> Diat 5</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373</p> <p>Example 1 (Instrumental)</p> <p>Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


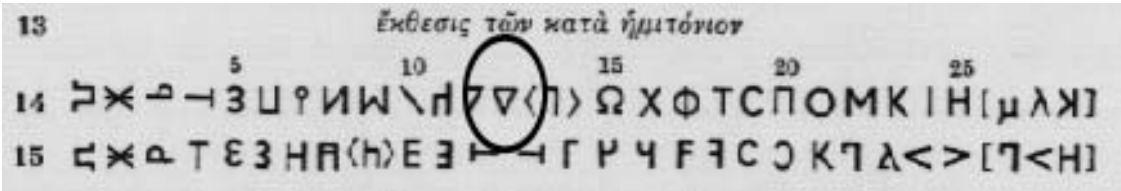
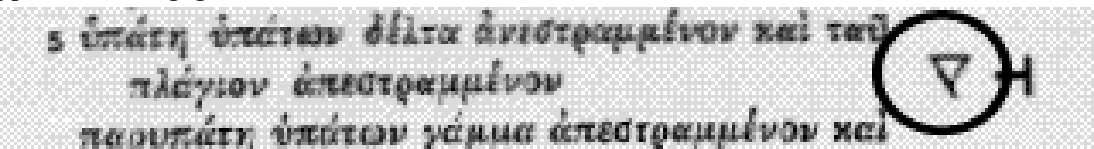
19. Greek Vocal Notation Symbol 19

Sign 	Unicode 1D212
Definition and comments This symbol is 0396 GREEK CAPITAL LETTER ZETA with the lower horizontal bar removed. This symbol represents the vocal d.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> Example 2 Alypius Mus., <i>Isagoge Chrom.</i> 4  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 384</p>	


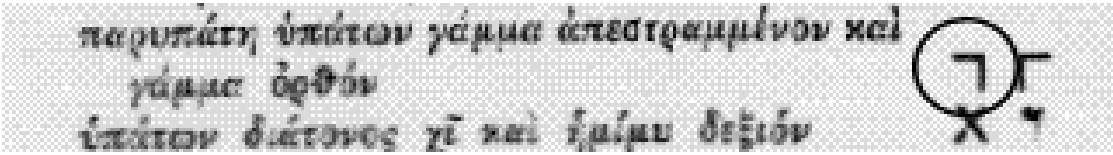
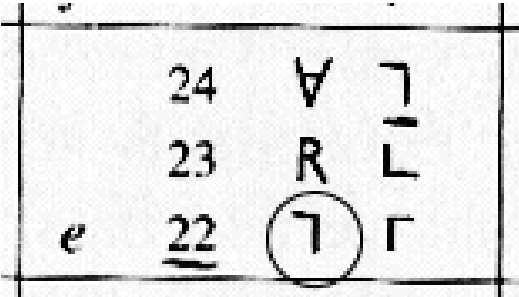
20. Greek Vocal Notation Symbol 20

Sign F	Unicode 1D213
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 28 <p>Definition and comments</p> <p>This symbol is either 0395 GREEK CAPITAL LETTER EPSILON with its lower bar removed, or possibly is identical to 03DC GREEK LETTER DIGAMMA.</p> <p>This represents the vocal first sharp of d.</p>	
<p>Example 1</p> <p>Aristides Quintilianus Mus., <i>De musica</i> 1.11</p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p> <p>Example 2</p> <p>Alypius Mus., <i>Isagoge</i> Diat. 9</p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 377</p>	

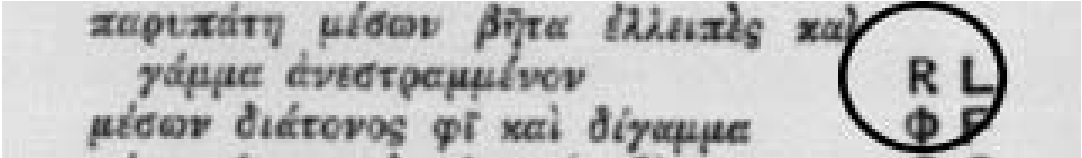
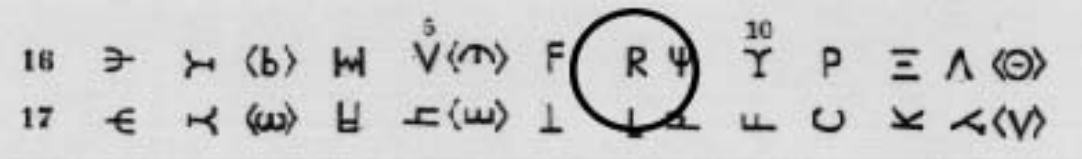
21. Greek Vocal Notation Symbol 21

Sign 	Unicode 1D214
Definition and comments This symbol is 0394 GREEK CAPITAL LETTER DELTA rotated 180°. This represents the vocal second sharp of d.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 Example 2 (Glyph variant) Alypius Mus., <i>Isagoge</i> Diat. 4  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 372	


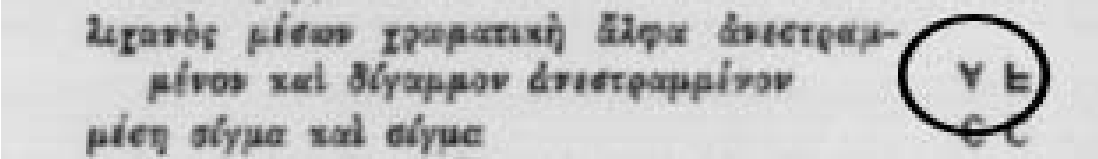
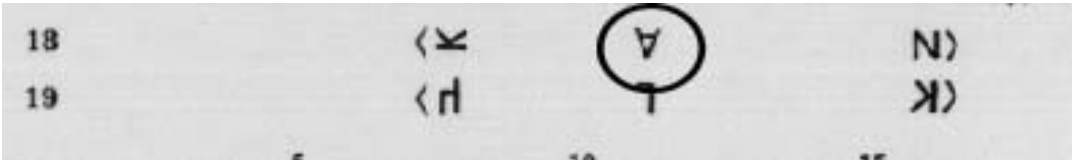
22. Greek Vocal Notation Symbol 22

Sign 	Unicode 1D215
Definition and comments This symbol is 0393 GREEK CAPITAL LETTER GAMMA reflected in the y-axis. This represents e.	
Example 1 Alypius Mus., <i>Isagoge Diat. 4</i> 	
Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 372	
Example 2 West, M.L., <i>Ancient Greek Music</i>	
	
West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	


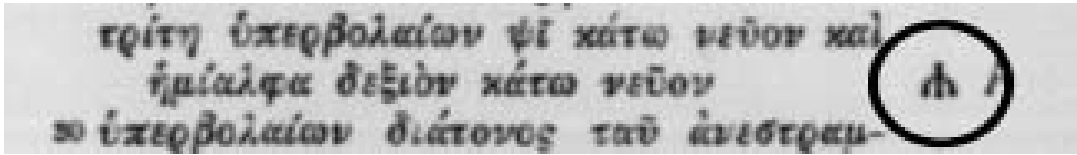
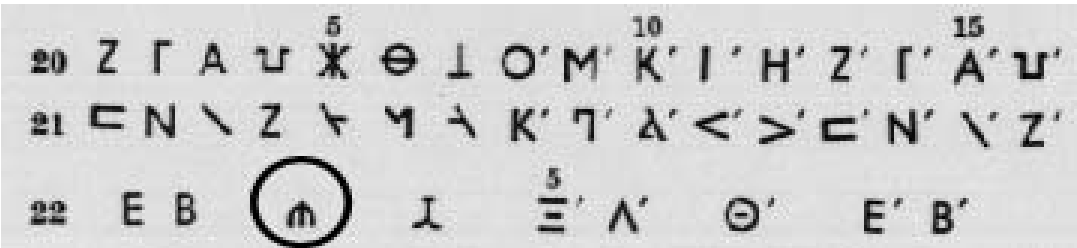
23. Greek Vocal Notation Symbol 23

Sign R	Unicode 1D216
Definition and comments This symbol is a truncated form of 0392 GREEK CAPITAL LETTER BETA. This character is not an R although editors may print it as an R for convenience. This represents the vocal first sharp of e.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 2  <p>παρυκάτη μίσων βῆτα ἑλλειπὲς καὶ γάμμα ἀνιστραμμένον μίσων διάτονος φῖ καὶ δίγαμμα</p> <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 370</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>16 ϑ Υ (b) W V⁵(τ) F R Ψ Υ¹⁰ P Ξ Λ Θ 17 ϕ Υ (ω) F F(ω) L Λ F U X <V></p> <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


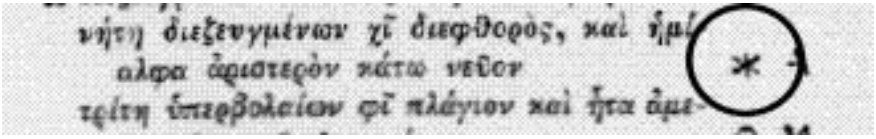

24. Greek Vocal Notation Symbol 24

Sign 	Unicode 1D217
Definition and comments This symbol is 0391 GREEK CAPITAL LETTER ALPHA rotated 180°. This character is identical to the mathematical universal quantifier U+2200 FOR ALL; but both the typography and semantics of the two symbols are too disparate to warrant conflation. This represents the vocal second sharp of e.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 2</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385</p> Example 2 Aristides Quintilianus Mus., <i>De musica 1.11</i>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


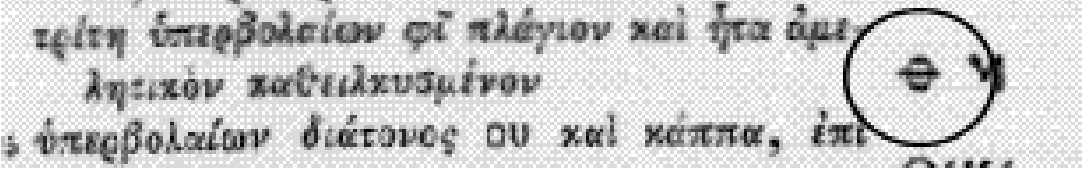
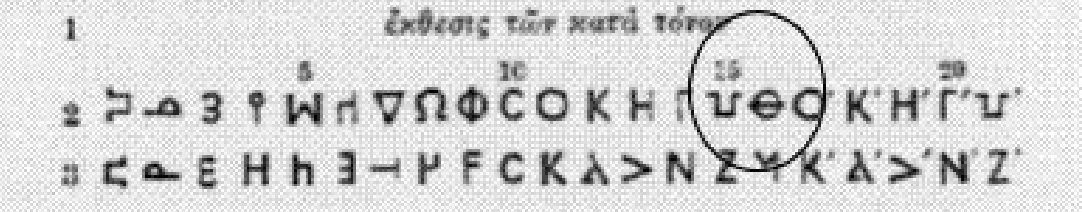
25. Greek Vocal Notation Symbol 50

Sign 	Unicode 1D218
Definition and comments This symbol is 03A8 GREEK CAPITAL LETTER PSI rotated 180°. This represents the vocal first sharp of g'.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 7  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 375	
Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26	


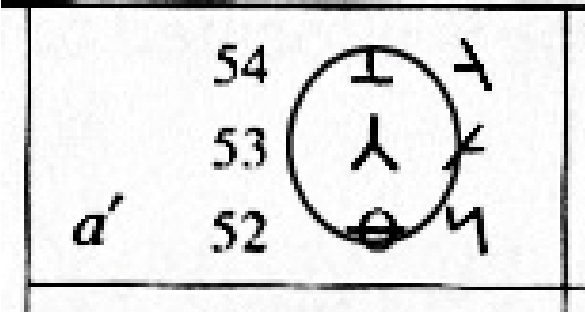
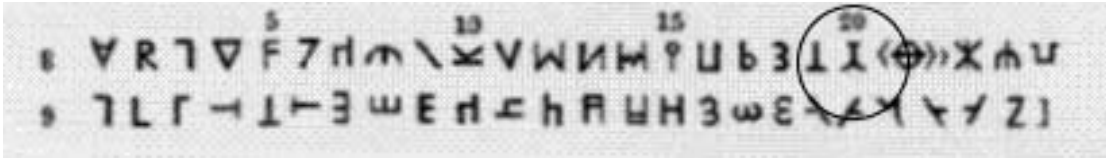
26. Greek Vocal Notation Symbol 51

Sign 	Unicode 1D219
Definition and comments This symbol is 03A7 GREEK CAPITAL LETTER CHI with a vertical line through the center. This represents the vocal second sharp of g'.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 4  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 372</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	


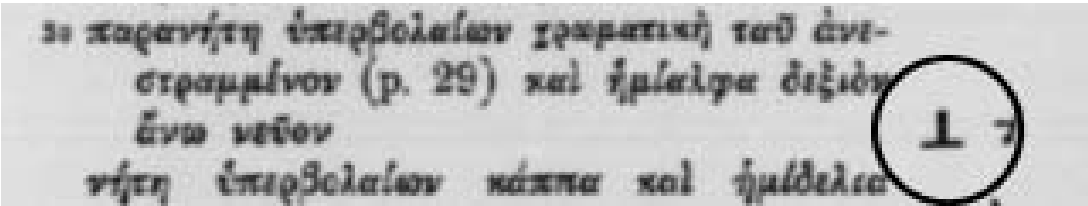
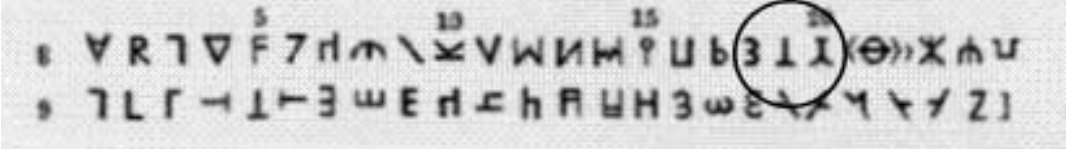
27. Greek Vocal Notation Symbol 52

Sign 	Unicode 1D21A
Definition and comments This symbol is 03A6 GREEK CAPITAL LETTER PHI rotated 90°. This represents a´.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 4 	
Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 372	
Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11 	
Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24	

28. Greek Vocal Notation Symbol 53


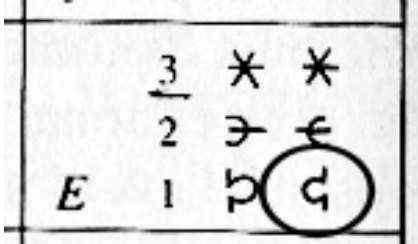
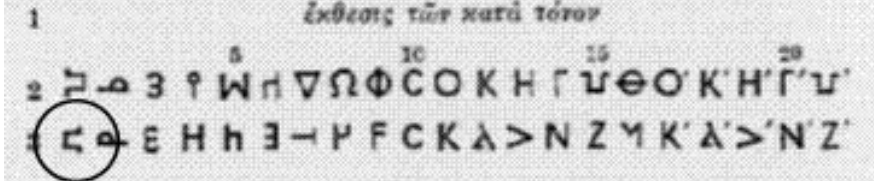
Sign 	Unicode 1D21B
Definition and comments This symbol is 03A5 GREEK CAPITAL LETTER upsilon rotated 180°. This represents the vocal first sharp of a'.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center; margin: 10px 0;">  </div> <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11 <div style="text-align: center; margin: 10px 0;">  </div> <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	

29. Greek Vocal Notation Symbol 54


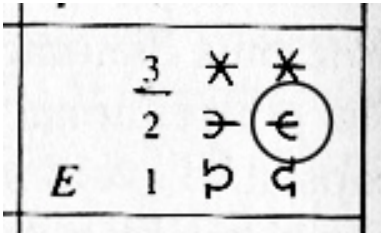
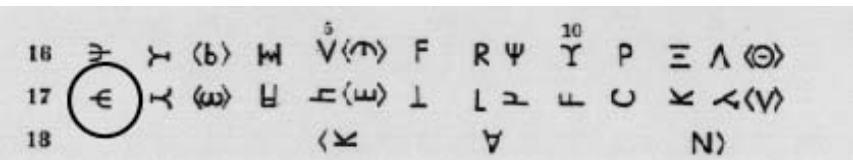
Sign 	Unicode 1D21C
<ul style="list-style-type: none"> • Greek Instrumental Notation Symbol 20 <p>Definition and comments</p> <p>This symbol is 03A4 GREEK CAPITAL LETTER TAU rotated 180°.</p> <p>This represents the vocal second sharp of a´.</p>	
<p>Example 1</p> <p>Alypius Mus., <i>Isagoge Chrom. 3</i></p>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 386</p> <p>Example 2</p> <p>Aristides Quintilianus Mus., <i>De musica 1.11</i></p>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	

Greek Instrumental Notation


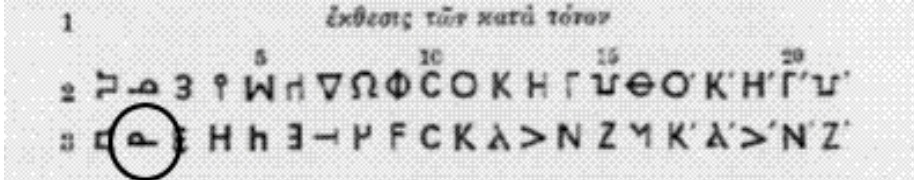
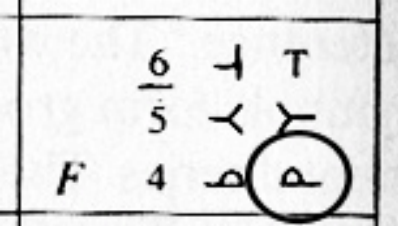
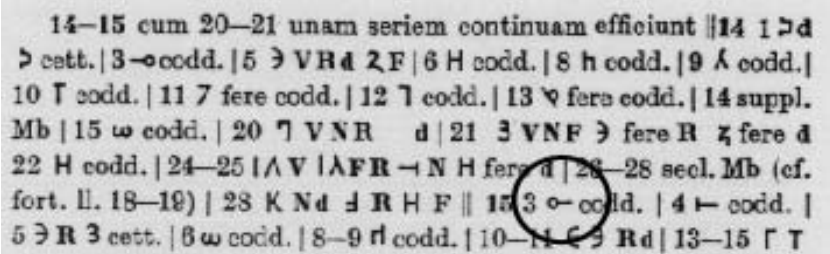
30. Greek Instrumental Notation Symbol 1

Sign 	Unicode 1D21D
Definition and comments This symbol is 03A9 GREEK CAPTIAL LETTER OMEGA rotated 90° clockwise. This represents the instrumental E.	
Example 1 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 (Glyph variant) Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p>	


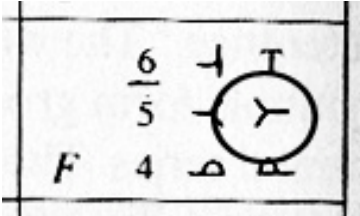
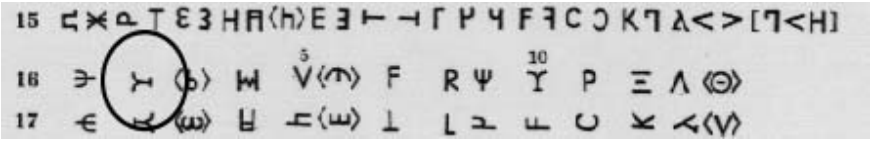
31. Greek Instrumental Notation Symbol 2

Sign 	Unicode 1D21E
Definition and comments This symbol is 03A8 GREEK CAPITAL LETTER PSI rotated 90° clockwise. This represents the instrumental first sharp of E.	
Example 1 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	
Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


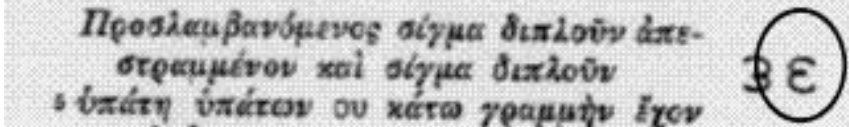
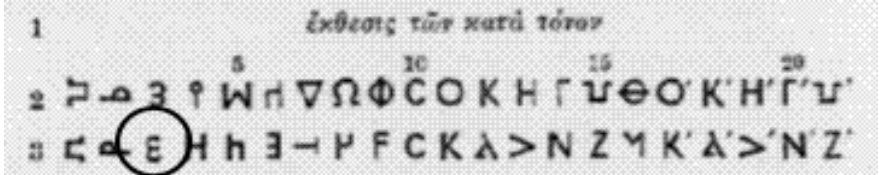
32. Greek Instrumental Notation Symbol 4

Sign 	Unicode 1D21F
Definition and comments This symbol is a variant form of 03A6 GREEK CAPITAL LETTER PHI rotated 90° clockwise and with the left arm and lower semi-circle removed. This represents the instrumental F.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p> Example 2 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 3 (Glyph variant) Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 App. Crit.</p>	

33. Greek Instrumental Notation Symbol 5


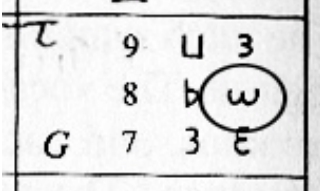
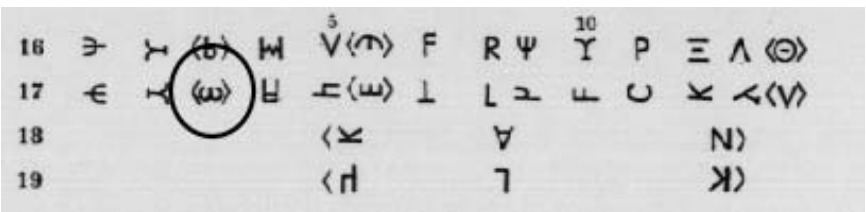
Sign 	Unicode 1D220
Definition and comments This symbol is a 03A5 GREEK CAPITAL LETTER UPSILON rotated 90° counter-clockwise. This represents the instrumental first sharp of F. In Aristides Quintillianus, this symbol is used for Greek Vocal Notation Symbol 5.	
Example 1 West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26	

34. Greek Instrumental Notation Symbol 7


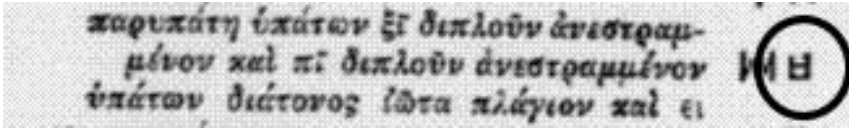
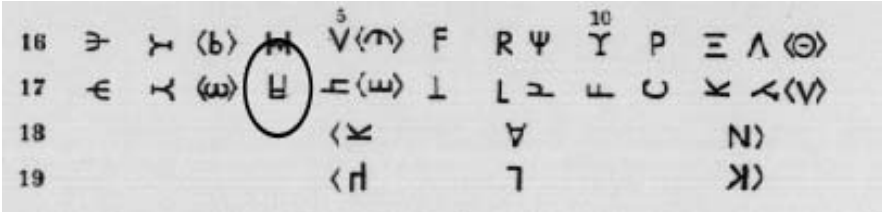
Sign 	Unicode 1D221
Definition and comments This symbol is most probably a rounded form of 03A3 GREEK CAPITAL LETTER SIGMA, or is possibly a doubled GREEK CAPITAL LUNATE SIGMA reflected in the y-axis. ⁸ This represents the instrumental G.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 8  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 376</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p>	

⁸ For discussion on the origins of this character see Winnington-Ingram (1978) 240-241 who convincingly argues that a rounded capital letter Sigma is the most plausible solution.


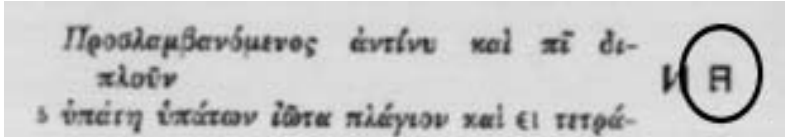
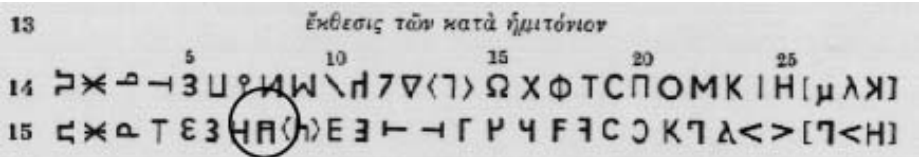
35. Greek Instrumental Notation Symbol 8

Sign 	Unicode 1D222
Definition and comments This symbol is GREEK INSTRUMENTAL NOTATION SYMBOL 7 rotated 90° counter-clockwise. The similarity with 03C9 GREEK SMALL LETTER OMEGA is coincidental. This represents the instrumental first sharp of G.	
Example 1 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


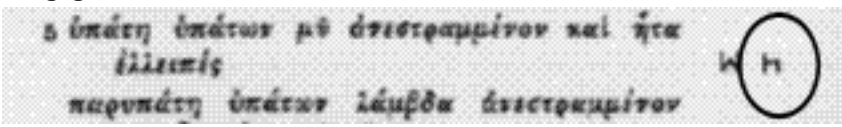
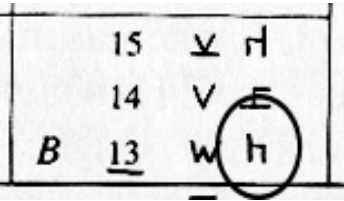
36. Greek Instrumental Notation Symbol 11

Sign 	Unicode 1D223
Definition and comments This symbol is either 0397 GREEK CAPITAL LETTER ETA with a horizontal at the bottom or possibly 03A0 GREEK CAPITAL LETTER PI with a horizontal bar half-way up and rotated 180°. This represents the instrumental first sharp of A.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 8  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 376 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26	


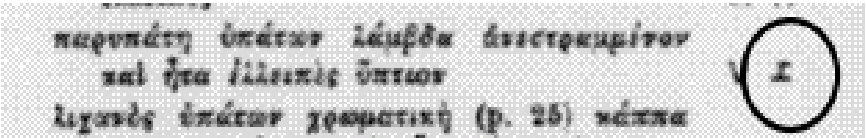
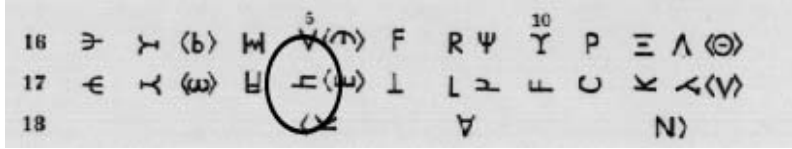
37. Greek Instrumental Notation Symbol 12

Sign 	Unicode 1D224
Definition and comments This symbol is either 0397 GREEK CAPITAL LETTER ETA with a horizontal at the top or possibly 03A0 GREEK CAPITAL LETTER PI with a horizontal bar half-way up. This represents the instrumental second sharp of A.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 13  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 381 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26	


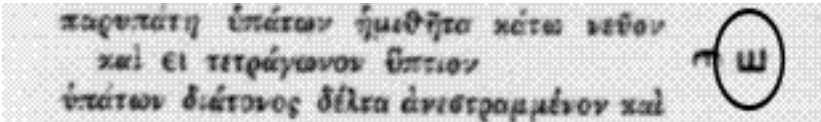
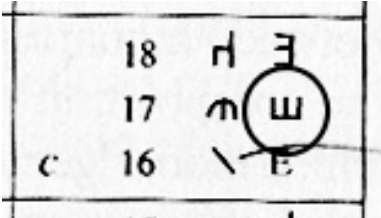
38. Greek Instrumental Notation Symbol 13

Sign 	Unicode 1D225
Definition and comments This symbol is 0397 GREEK CAPITAL LETTER ETA with the top half of the right hand vertical bar removed. This represents the instrumental B.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 2</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385</p> Example 1 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	


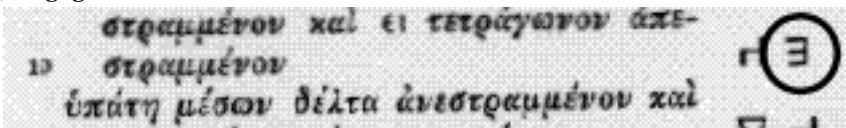
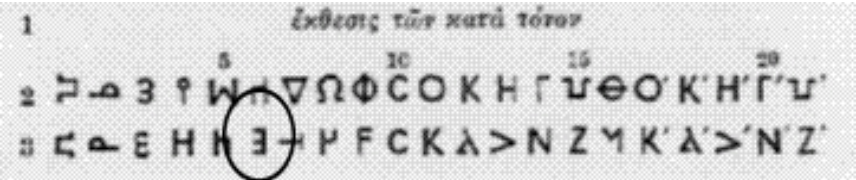
39. Greek Instrumental Notation Symbol 14

Sign 	Unicode 1D226
Definition and comments This symbol is Greek Instrumental Notation Symbol 13 rotated 90° counter-clockwise. This represents the instrumental first sharp of B.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 2</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385</p> Example 2 Aristides Quintilianus Mus., <i>De musica 1.11</i>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


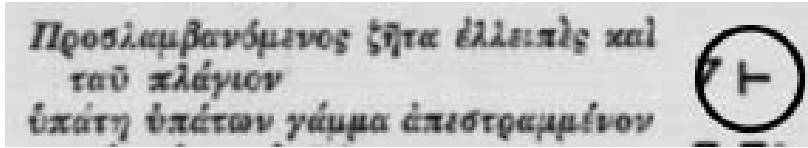
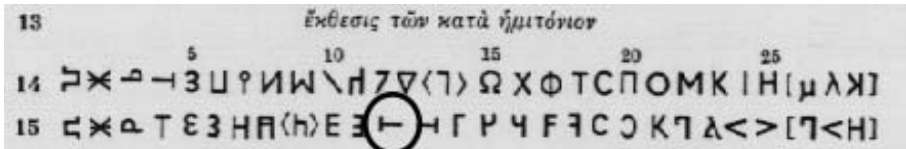
40. Greek Instrumental Notation Symbol 17

Sign 	Unicode 1D227
Definition and comments This symbol is 0395 GREEK CAPITAL LETTER EPSILON rotated 90° counter-clockwise. This represents the instrumental first sharp of c.	
Example 1 Alypius Mus., <i>Isagoge Diat. 13</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 381</p> Example 2 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p>	


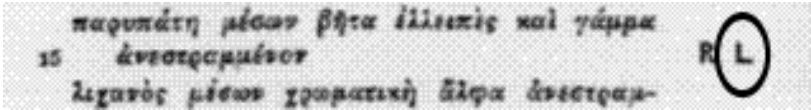
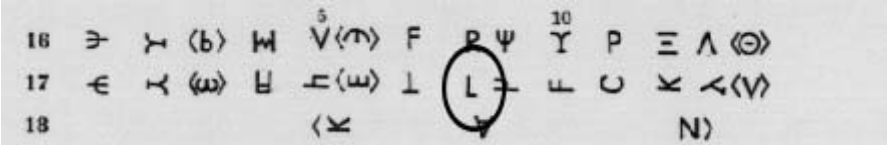
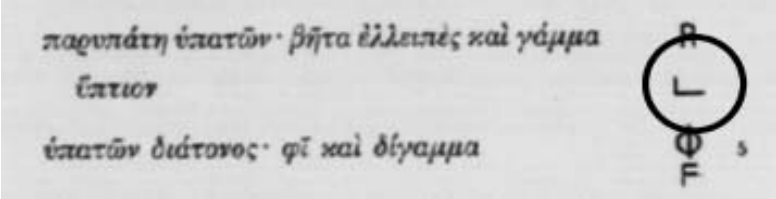
41. Greek Instrumental Notation Symbol 18

Sign 	Unicode 1D228
Definition and comments This symbol is 0395 GREEK CAPITAL LETTER EPSILON rotated 180°. This character is identical to the mathematical operator U+2203 THERE EXISTS. But both the typography and semantics of the two symbols are too disparate to warrant conflation. This represents the instrumental second sharp of c.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 5  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 373 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24	


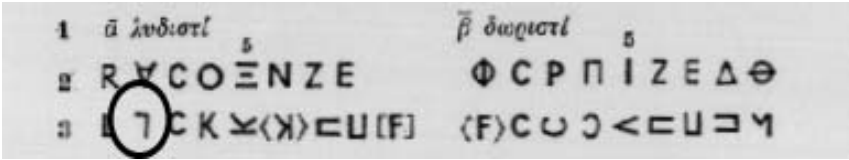
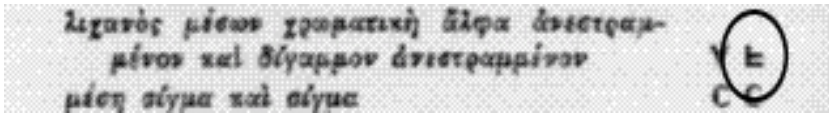




42. Greek Instrumental Notation Symbol 19

Sign 	Unicode 1D229
Definition and comments This symbol is 03A4 GREEK CAPITAL LETTER TAU rotated 90° counter-clockwise. This represents the instrumental d.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 1  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 369</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


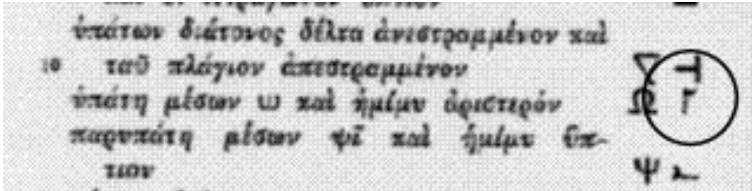
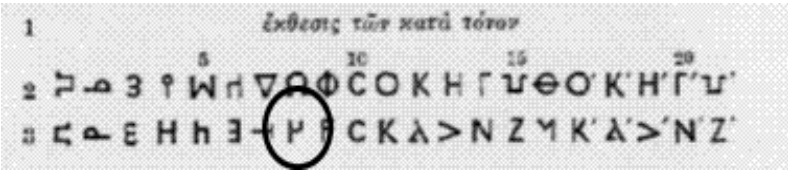
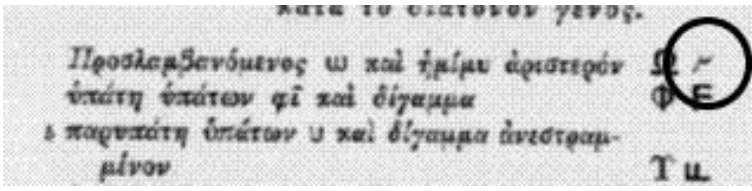
43. Greek Instrumental Notation Symbol 23

Sign 	Unicode 1D22A
Definition and comments This symbol is 0393 GREEK CAPITAL LETTER GAMMA reflected in the x-axis. The similarity to Latin L is not reflected in all glyph variants (see Example 3). This represents the instrumental first sharp of e.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 2</i>  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385 Example 2 Aristides Quintilianus Mus., <i>De musica 1.11</i>  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 Example 3 (Glyph variant) Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana. Section 67</i>  Najock, D., <i>Anonyma de musica scripta Bellermanniana</i> . (Leipzig, Teubner, 1975) 20	

44. Greek Instrumental Notation Symbol 24

Sign 	Unicode 1D22B
Definition and comments This symbol is 0393 GREEK CAPITAL LETTER GAMMA reflected in the y-axis. This character is not the same as Greek Vocal Notation Symbol 22 as this character has five glyph variants while Greek Vocal Notation Symbol 22 has only one. This represents the instrumental second sharp of e.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11 	
Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26	
Example 2 Alypius Mus., <i>Isagoge Chrom.</i> 2 	
Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385	
Example 3 West, M.L., <i>Ancient Greek Music</i> 54–53 and 51–instr., see Winnington-Ingram, <i>Philol.</i> 122 (1978) 241–8. 24 instr.: Gaudentius and Boethius give  and  (chromatic ) respectively, Alypius 	
West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	


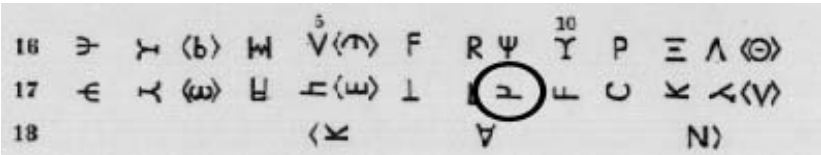
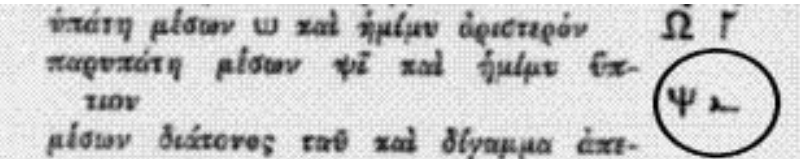
45. Greek Instrumental Notation Symbol 25

Sign 	Unicode 1D22C
Definition and comments This symbol is described by Bellermann as being the left hand half of 039C GREEK CAPITAL LETTER MU, ⁹ however, Winnington-Ingram stresses that the origin is “quite uncertain.” ¹⁰ This symbol represents the instrumental f.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 13  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 381</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p> Example 3 Alypius Mus., <i>Isagoge</i> Diat. 9  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 377</p>	



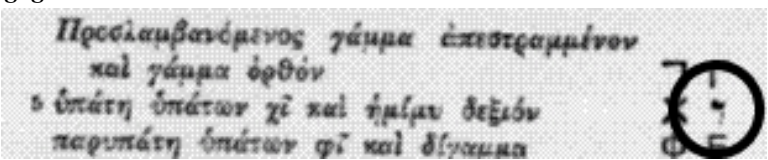
⁹ Bellermann (1969) 42

¹⁰ Winnington-Ingram (1973) 247


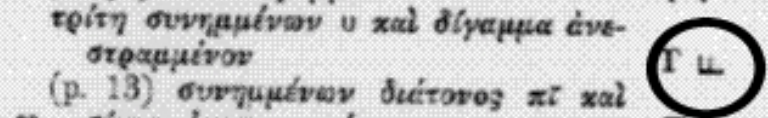

46. Greek Instrumental Notation Symbol 26

Sign 	Unicode 1D22D
Definition and comments This symbol is Greek Instrumental Notation Symbol 25 rotated 90° counter-clockwise. This is the instrumental first sharp of f.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26 Example 2 Alypius Mus., <i>Isagoge</i> Diat. 13  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 381	


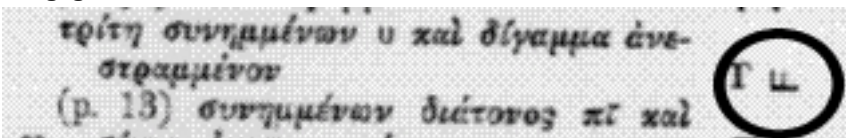

47. Greek Instrumental Notation Symbol 27

Sign 	Unicode 1D22E
Definition and comments This symbol is Greek Instrumental Notation Symbol 25 reflected in the x-axis. The similarity with 1D13E MUSICAL SYMBOL EIGHTH REST in Example 2 is a matter of the editor's typographical convenience. The two symbols are unrelated. This is the instrumental second sharp of f.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p> Example 2 (Glyph variant) Alypius Mus., <i>Isagoge</i> Diat. 12  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 380</p>	


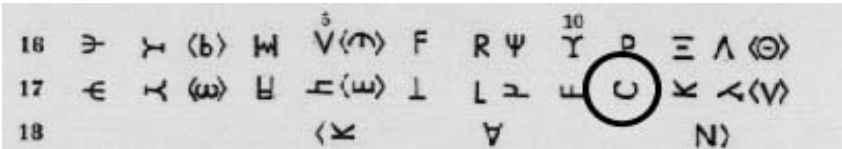
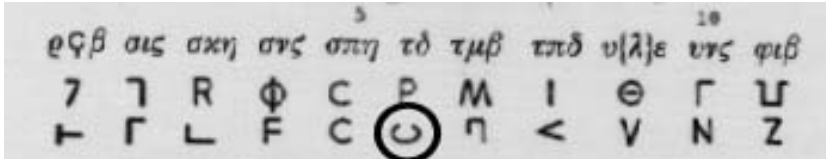
48. Greek Instrumental Notation Symbol 29

Sign 	Unicode 1D22F
Definition and comments This symbol is either 0395 GREEK CAPITAL LETTER EPSILON with its lower bar removed and rotated 90° counter-clockwise, or possibly, 03DC GREEK LETTER DIGAMMA rotated 90° counter-clockwise. This symbol represents the instrumental first sharp of g.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 8  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 380</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	


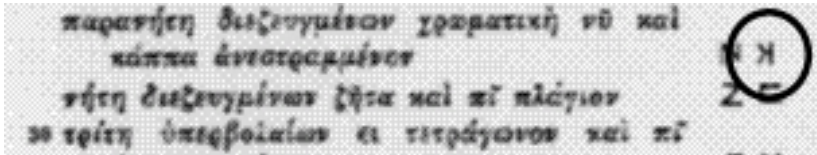
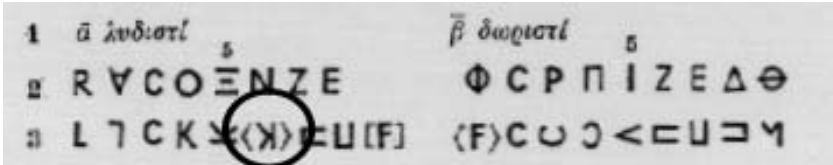
49. Greek Instrumental Notation Symbol 30

Sign 	Unicode 1D230
Definition and comments This symbol is either 0395 GREEK CAPITAL LETTER EPSILON with its lower bar removed reflected in the y-axis, or possibly, 03DC GREEK LETTER DIGAMMA rotated reflected in the y-axis. This symbol represents the instrumental second sharp of g.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 4</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 380</p> Example 2 Aristides Quintilianus Mus., <i>De musica 1.11</i>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	


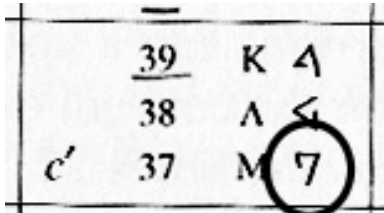
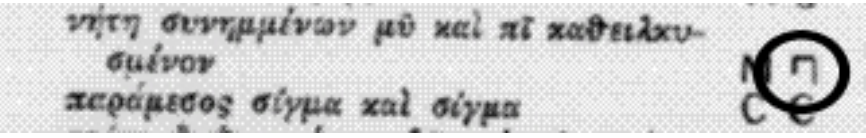
50. Greek Instrumental Notation Symbol 32

Sign 	Unicode 1D231
Definition and comments This symbol is GREEK CAPITAL LETTER LUNATE SIGMA rotated 90° counter-clockwise. This represents the instrumental first sharp of a.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p> Example 2 Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana</i>. Section 77  <p>Najock, D., <i>Anonyma de musica scripta Bellermanniana</i> (Leipzig, Teubner, 1975) 24</p>	


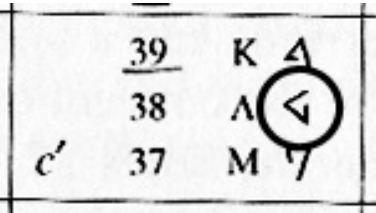
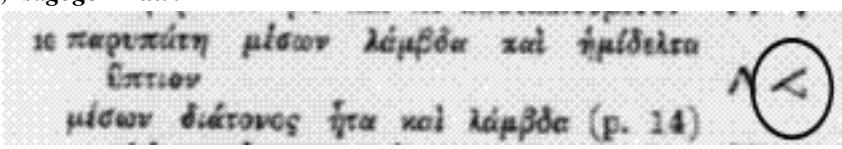
51. Greek Instrumental Notation Symbol 36

Sign 	Unicode 1D232
Definition and comments This symbol is 039A GREEK CAPITAL LETTER KAPPA reflected in the y-axis. This represents the instrumental second sharp of b.	
Example 1 Alypius Mus., <i>Isagoge Chrom. 2</i>  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385</p> Example 2 Aristides Quintilianus Mus., <i>De musica 1.9</i>  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 19</p>	



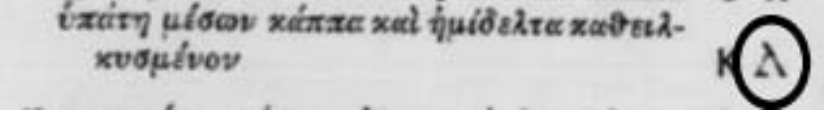


52. Greek Instrumental Notation Symbol 37

Sign 	Unicode 1D233
Definition and comments This symbol is Greek Instrumental Notation Symbol 39 rotated 90° clockwise. This symbol represents the instrumental c'.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center; margin: 10px 0;">  </div> West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256 Example 2 (Glyph variant) Alypius Mus., <i>Isagoge Diat. 8</i> <div style="text-align: center; margin: 10px 0;">  </div> Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 376	


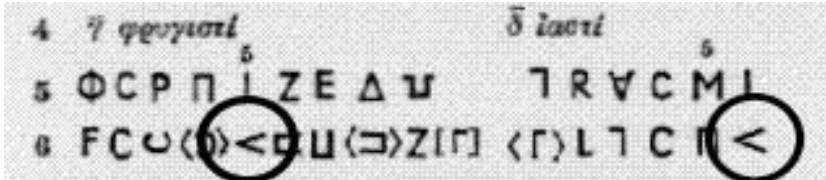
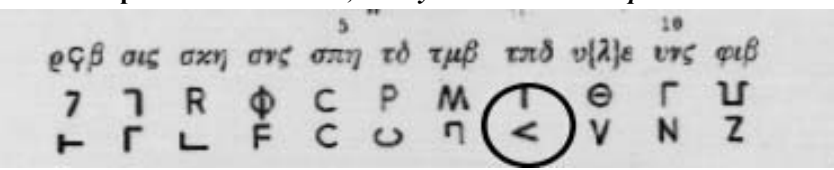
53. Greek Instrumental Notation Symbol 38

Sign 	Unicode 1D234
Definition and comments This symbol is Greek Instrumental Notation Symbol 39 rotated 90° counter-clockwise. This symbol represents the instrumental first sharp of c'.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center; margin: 10px 0;">  </div> West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	
Example 2 Alypius Mus., <i>Isagoge Diat. 9</i> <div style="text-align: center; margin: 10px 0;">  </div> Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 377	


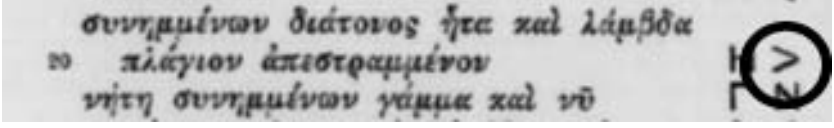
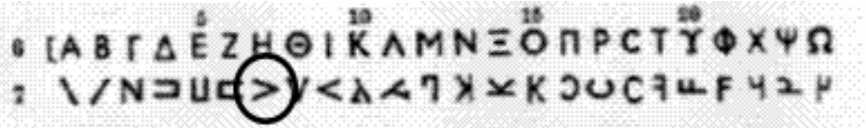
54. Greek Instrumental Notation Symbol 39

Sign 	Unicode 1D235												
Definition and comments This symbol is 0394 GREEK CAPITAL LETTER DELTA with the right hand half of its horizontal line removed. This symbol represents the instrumental second sharp of c'.													
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center;"> <table border="1"> <tr> <td></td> <td style="text-align: center;">39</td> <td style="text-align: center;">κ</td> <td style="text-align: center;"></td> </tr> <tr> <td></td> <td style="text-align: center;">38</td> <td style="text-align: center;">λ</td> <td style="text-align: center;">↙</td> </tr> <tr> <td style="text-align: center;">c'</td> <td style="text-align: center;">37</td> <td style="text-align: center;">μ</td> <td style="text-align: center;">7</td> </tr> </table> </div> <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 (Glyph variant) Alypius Mus., <i>Isagoge</i> Diat. 6 <div style="text-align: center;">  </div> <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 374</p>			39	κ			38	λ	↙	c'	37	μ	7
	39	κ											
	38	λ	↙										
c'	37	μ	7										


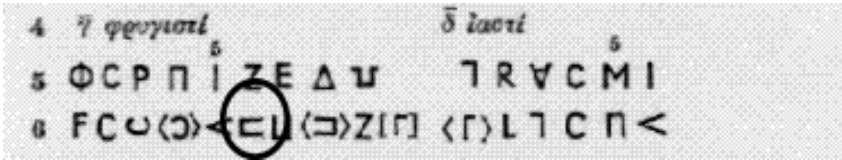
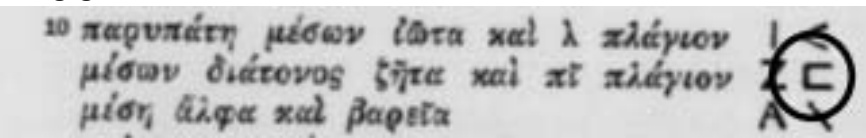
55. Greek Instrumental Notation Symbol 40

Sign 	Unicode 1D236
Definition and comments This symbol is 039B GREEK CAPITAL LETTER LAMBDA rotated 90° counter-clockwise. The similarity with the mathematical symbol is fortuitous. The typography and semantics of the two symbols are incompatible. This symbol represents the instrumental d'.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.9  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 19</p> Example 2 Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana</i> . Section 77  <p>Najock, D., <i>Anonyma de musica scripta Bellermanniana</i> (Leipzig, Teubner, 1975) 25</p>	


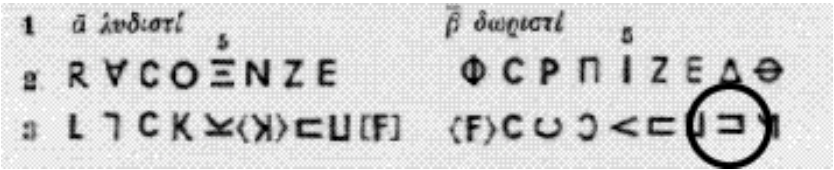
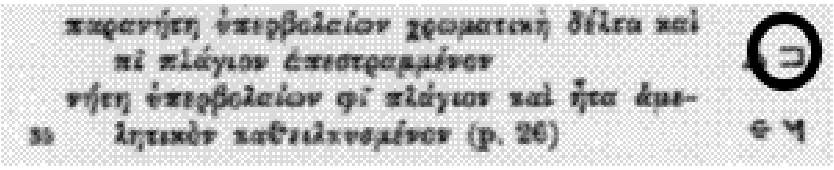
56. Greek Instrumental Notation Symbol 42

Sign 	Unicode 1D237
Definition and comments This symbol is 039B GREEK CAPITAL LETTER LAMBDA rotated 90° clockwise. The similarity with the mathematical symbol is fortuitous. The typography and semantics of the two symbols are incompatible. This represents the instrumental second sharp of d'.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 7  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 375 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25	


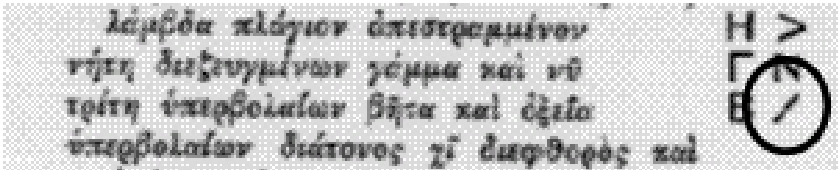
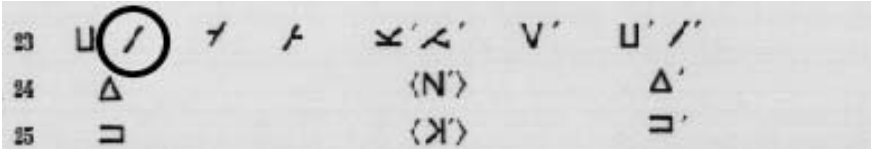
57. Greek Instrumental Notation Symbol 43

Sign 	Unicode 1D238
Definition and comments This symbol is 03A0 GREEK CAPITAL LETTER PI rotated 90° counter-clockwise. This represents the instrumental e'.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.9  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 19</p> Example 2 Alypius Mus., <i>Isagoge</i> Diat. 6  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 374</p>	


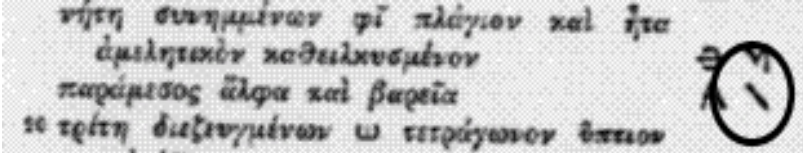
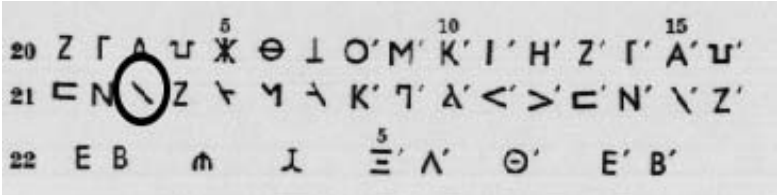
58. Greek Instrumental Notation Symbol 45

Sign 	Unicode 1D239
Definition and comments This symbol is 03A0 GREEK CAPITAL LETTER PI rotated 90° clockwise. This represents the instrumental second sharp of e´.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.9  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 19</p> Example 2 Alypius Mus., <i>Isagoge Chrom.</i> 2  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 385</p>	


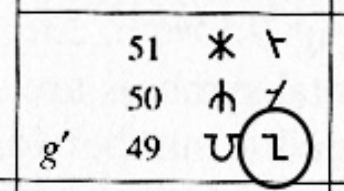
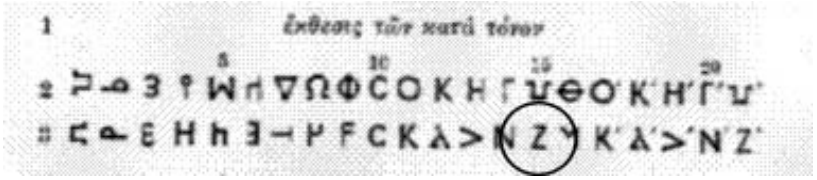
59. Greek Instrumental Notation Symbol 47

Sign 	Unicode 1D23A
Definition and comments This represents the instrumental first sharp of f'. The similarity with the mathematical symbols 2215 DIVISION SLASH or 002F SOLIDUS is fortuitous. The typography and semantics of the two symbols are incompatible.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 13  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 381</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 27</p>	


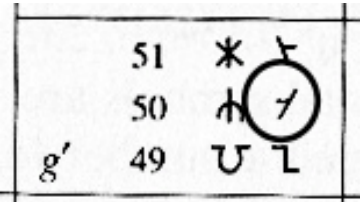
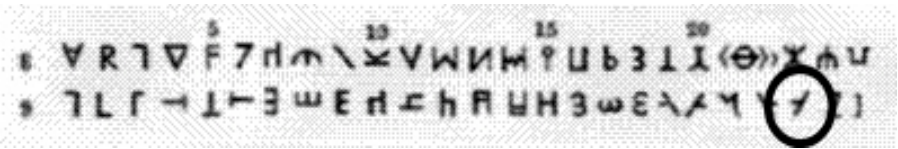
60. Greek Instrumental Notation Symbol 48

Sign 	Unicode 1D23B
Definition and comments Note: this symbol has no glyph variants and is therefore not the same as GREEK VOCAL NOTATION SYMBOL 16. The similarity with the mathematical symbol 2216 SET MINUS or O05C REVERSE SOLIDUS is fortuitous. The typography and semantics of the two symbols are incompatible. This represents the instrumental second sharp of f'.	
Example 1 Alypius Mus., <i>Isagoge</i> Diat. 12  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 380</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 26</p>	


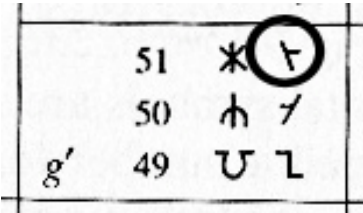

61. Greek Instrumental Notation Symbol 49

Sign 	Unicode 1D23C
Definition and comments This character has two glyph variants, the one given above and one which is identical to 0396 GREEK CAPITAL LETTER ZETA. This represents the instrumental g'.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center; margin: 10px 0;">  </div> <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11 <div style="text-align: center; margin: 10px 0;">  </div> <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 24</p>	


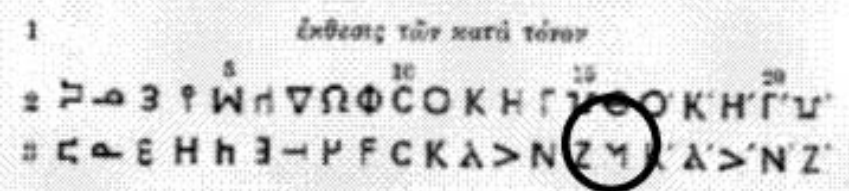
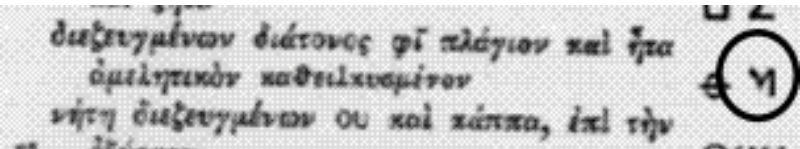
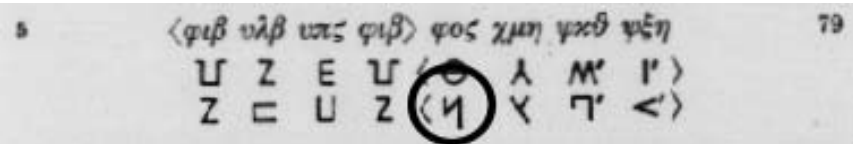
62. Greek Instrumental Notation Symbol 50

Sign 	Unicode 1D23D
Definition and comments This symbol is Greek Instrumental Notation Symbol 54 reflected in the x-axis. This represents the instrumental first sharp of g'.	
Example 1 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p>	

63. Greek Instrumental Notation Symbol 51



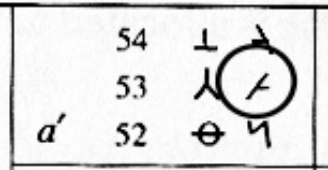
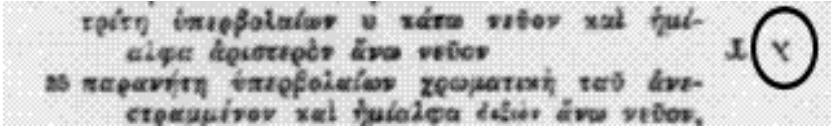
Sign 	Unicode 1D23E
Definition and comments This symbol is Greek Instrumental Notation Symbol 54 rotated 180°. This represents the instrumental second sharp of g'.	
Example 1 West, M.L., <i>Ancient Greek Music</i> <div style="text-align: center; margin: 10px 0;">  </div> West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256 Example 2 Aristides Quintilianus Mus., <i>De musica</i> 1.11 <div style="text-align: center; margin: 10px 0;">  </div> Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25	

64. Greek Instrumental Notation Symbol 52


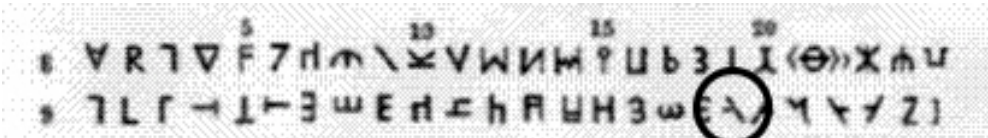
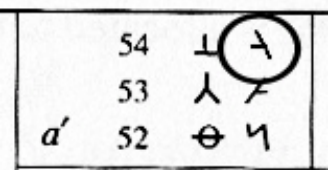
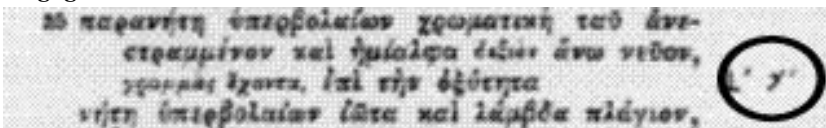
Sign 	Unicode 1D23F
Definition and comments This symbol is probably a variant form of 039D GREEK CAPITAL LETTER NU, but may be a variation on 0397 GREEK CAPITAL LETTER ETA. ¹¹ This represents the instrumental a'.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 23 Example 2 Alypius Mus., <i>Isagoge</i> Diat. 12  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 380 Example 3 (Glyph variant) Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana</i>. Section 77  Najock, D., <i>Anonyma de musica scripta Bellermanniana</i> (Leipzig, Teubner, 1975) 25	

¹¹ See Winnington-Ingram (1978) 246






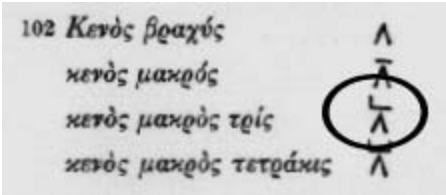
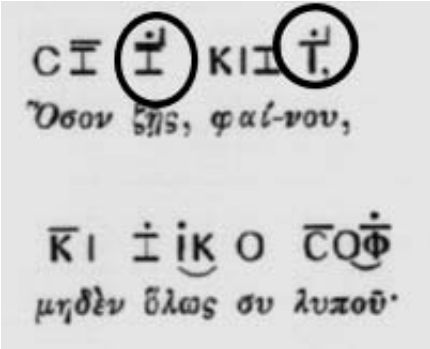
65. Greek Instrumental Notation Symbol 53

Sign 	Unicode 1D240
Definition and comments This symbol is Greek Instrumental Notation Symbol 54 reflected in the y-axis. This represents the instrumental first sharp of a'.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25	
Example 2 West, M.L., <i>Ancient Greek Music</i>  West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256	
Example 3 (Alypian glyph variant) Alypius Mus., <i>Isagoge Chrom.</i> 1  Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 384	


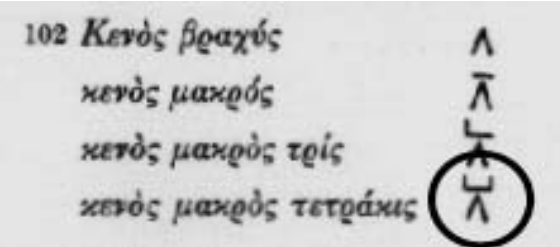
66. Greek Instrumental Notation Symbol 54

Sign 	Unicode 1D241
Definition and comments This represents the instrumental second sharp of a'.	
Example 1 Aristides Quintilianus Mus., <i>De musica</i> 1.11  <p>Winnington-Ingram, R.P., <i>Aristides Quintiliani de musica libri tres</i> (Teubner, Leipzig, 1963) 25</p> Example 2 West, M.L., <i>Ancient Greek Music</i>  <p>West, M.L., <i>Ancient Greek Music</i> (Clarendon Press, Oxford, 1992) 256</p> Example 3 (Alypian glyph variant) Alypius Mus., <i>Isagoge Chrom.</i> 1  <p>Jan, K., <i>Musici scriptores Graeci</i> (Georg Olms, Hildesheim, 1962) 384</p>	


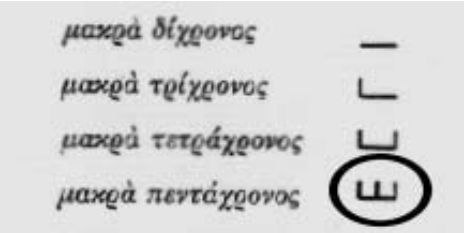
67. Greek Musical Triseme

Sign 	Unicode 1D242
Definition and comments A long nonspacing overbar with a small upright at the right which marks three beats. There are three glyph variants in antiquity: examples of  may be found in Winnington-Ingram (1975) 1, examples of  may be found in Jan (1962 Supp) 38, an example of  may be found in Johnson (2000) 76. The form  is the TLG's preferred glyph as it appears to be the more common. This form also combines with the Greek Musical Stigme, below. Similar to the Greek Metrical Symbol Triseme .	
Example 1 Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana</i>. Section 102 <div style="text-align: center;">  </div> <p>Najock, D., <i>Anonyma de musica scripta Bellermanniana</i>. (Leipzig, Teubner, 1975) 32</p> Example 3 (Combining with Stigme) <i>Sicili epitaphium</i> <div style="text-align: center;">  </div> <p>Jan, K., <i>Musici scriptores Graeci: Supplementum</i> (Georg Olms, Hildesheim, 1962) 38</p>	


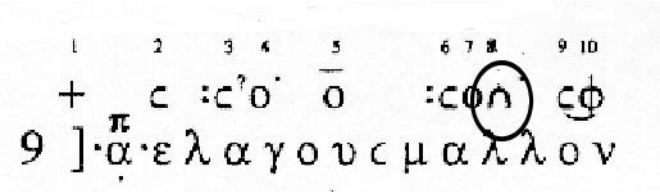
68. Greek Musical Tetraseme

Sign 	Unicode 1D243
Definition and comments A long nonspacing overbar with a small upright at the left and right which marks four beats. This form also combines with the Greek Musical Stigme, below. Similar to the Greek Metrical Tetraseme.	
Example 2 Anonyma de musica scripta Bellermanniana, <i>Anonyma de musica scripta Bellermanniana</i>. Section 83  Najock, D., <i>Anonyma de musica scripta Bellermanniana</i> . (Leipzig, Teubner, 1975) 28	

69. Greek Musical Pentaseme

Sign 	Unicode 1D244
Definition and comments A long nonspacing overbar with a small upright to the left and to the right and at the center which mark five beats. This form also combines with the Greek Musical Stigme.. Similar to the Greek Metrical Pentaseme.	
Example 1 <i>Anonyma de musica scripta Bellermanniana, Anonyma de musica scripta Bellermanniana. Section 83</i>  <p>Najock, D., <i>Anonyma de musica scripta Bellermanniana</i>. (Leipzig, Teubner, 1975) 28</p>	

70. Greek Musical Leimma

Sign 	Unicode 1D245
Definition and comments This character is used as a mark of lengthening or rest. The TLG notes two glyph variants: Ω and Λ.	
Example 1  <p>Johnson, W.A., "Musical Evenings in the Early Empire" in <i>JHS</i> 120 (2000) 61</p>	