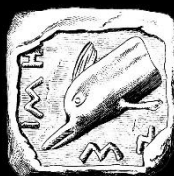


Pondera Online

*A Digital Database of Ancient Commercial Weights
from the Aegean Zone (6th Century BCE – 2nd Century CE)*

Charles DOYEN (F.R.S.-FNRS / UCLouvain)

Workshop “Weights and their Identification” (München, June 25-26, 2016)





1. First attempts to a global corpus

2. Two representative corpuses:
Athens and Olympia

3. A new digital corpus:
Pondera Online



Metrologische Untersuchungen

über

Gewichte, Münzfüße und Maße

des Alterthums

in ihrem Zusammenhange,

von

August Böckh.

BADENIA VERLAG GMBH
KARLSRUHE
1978



F88 AR 350639 XIV/71

FA 908

HULT

GRIECHISCHE UND RÖMISCHE

METROLOGIE

VON

FRIEDRICH HULTSCH.

Les Bibliothèques de l'UCL
Bibliothèque des arts et des lettres (BFLT)
Place Cardinal Mercier, 31
Boîte postale L3.04.01
B-1348 Louvain-La-Neuve

ZWEITE BEARBEITUNG.



AKADEMISCHE DRUCK- u. VERLAGSANSTALT
GRAZ - AUSTRIA

1971

[1882]

X1096
13

METROLOGICORVM SCRIPTORVM

RELIQVIAE

COLLEGIT RECENSUIT
PARTIM NVNC PRIMVM EDIDIT
FRIDERICVS HVLTSCH

VOL. I et II

EDITIO STEREOTYPA EDITIONIS
ANNORVM MDCCCLXIV/MDCCCLXVI

X1096

A/LAT

N

TEUB

METR

1 & 2



STVTGARDIAE IN AEDIBVS B.G. TEVBNERI MCMLXXI

DE PONDERIBUS ALIQUOT ANTIQUIS, GRAECIS
ET ROMANIS, MAXIMA EX PARTE
NUPER REPERTIS 1.

(Mon. dell' Inst. vol. VIII tav. XIV. tavv. d'agg. L. M)

Notum est Graecos veteres in ponderibus atque nummis appellandis dividendisque in partes eadem fere usos esse ratione. Talentum enim, quo nomine et maximum pondus nummumque significabant, dividebant in sexaginta minas, minas in centum drachmas, drachmam in sex obolos, obolum in octo chalcos. Cf. Boeckh, *Metrologische Untersuchungen* p. 32, Hultsch, *Metrologica scriptorum reliquiarum* vol. I. fragm. 94 p. 299. ὁ δὲ Διόδωρος ἐν τῷ περὶ σταθμῶν. τάλαν- τὸν ἐστὶ μινῶν ἕξ, ἡ δὲ μνᾶ δραχμῶν ῥή, ἡ δὲ δραχμὴ ὀβολῶν ἑξ, ὁ δὲ ὀβολὸς χαλκῶν ὀκτώ. Eundemque Diodorum, de quo Hultsch loquitur in eodem libro p. 156. ss., Suidas sequitur (v. τάλαντον), nisi quod obolum sex (ἑξ) tantum chalcos habere dicit (Cf. Boeckh, *M. U.* p. 32 s.). Verumtamen talentorum non est unum genus, sed multa; memorant Homericum, Babylonium, Aegineticum, Euboicum, Atticum, alia. Illa autem genera, quibus veteres potissimum in ponderando et solvendo utebantur, sunt genus Aegineticum (cf. Boeckh, *M. U.* p. 82. Mommsen, *Geschichte des römischen Münzwesens* p. 46.

1 Quum anno MDCCCLVII et insequente Athenis morarer, in- cidi apud amicum Henricum Siegel sculptorem in nonnulla pondera antiqua haud multo ante Athenis reperta. Haec mihi tum nova sane miratus et saepius de iis collocutus cum Achille Postolacca museo nummario Hellenico praeposito, institui diligentius animum ad ea adverte- re. Pondera igitur iterum atque iterum a me sunt inspecta; inscriptiones si quae erant, investigatae atque explicatae, trutina accuratissima examinatum est, quid pendat; deinde etiam delineatione pondera quam diligentissime a me sunt expressa. Postea vero quum multa sane per- pessus in patriam rediissem, sed non comperissem illorum ponderum, quae jam, priusquam ego in patriam adveni, Athenis Berolinum in museum regium migraverant, in annalibus rerum antiquarum a quopiam viro docto mentionem esse factam, operae pretium facturus mihi vi- debar, si illa pondera delineationibus expressa breviter illustrarem et in lucem proferrem. Rogatus igitur a me Achilles Postolacca amicus Atheniensis delineationes, quas dono a me acceperat, explicato consilio meo, benevolentissime non modo, quas petieram, sed etiam multas alias exprimentes pondera, quae Athenis aut in publicis collectionibus



GRIECHISCHE GEWICHTE

A 1100

GESAMMELT, BESCHRIEBEN UND ERLÄUTERT

VON

DR. ERICH PERNICE

PRIVATDOCENT AN DER UNIVERSITÄT GREIFSWALD.

MIT EINER TAFEL.



BERLIN

WEIDMANNSCHE BUCHHANDLUNG

1894.

V. Mit einem ausgeschnittenen oder runden Schild bezeichnete Gewichte.

232) Athen, arch. Gesellsch. n. 1252. Oben in Relief ein ausgeschnittener Schild. Gut erhalten und wenig bestofsen. Abgeb. Mon. dell' Ist. VIII Taf. XIV, 65, vgl. Schillbach n. 65. Soutzo étal. S. 460 n. 270. Gewicht 231,66 gr. 926,64 gr.

233) Athen, ebenda n. 1253. Oben in Relief ein ausgeschnittener Schild. In den Ecken deutlich die Buchstaben $\begin{matrix} \Gamma & \rho \\ \Xi & \Lambda \end{matrix}$ d. h. τέταρτον. Gleichmäfsig abgenutzt; auch mehrfach bestofsen. Abgeb. Mon. dell' Ist. VIII Taf. XIV, 66¹⁾, vgl. Schillbach n. 66. Soutzo étal. Taf. II, 20 S. 460 n. 271. Gewicht . . . 231,14 gr. 924,56 gr.

234) Athen, ehemals bei Lafazanis. Oben in Relief Schild ohne Ausschnitte. Bestofsen und beschädigt. Abgeb. Mon. dell' Ist. VIII Taf. XIV, 67, vgl. Schillbach n. 67. Soutzo étal. S. 460 n. 272. Aus Athen. Gewicht . . . 221,06 gr. 884,24 gr.

235) Berlin, Antiquarium n. 6496. Oben in Relief ein ausgeschnittener Schild. Gut erhalten, von einer Ecke abgesehen. Aus Athen. Gewicht 217,93 gr. 871,72 gr.

236) Athen, arch. Gesellsch. n. 247. Oben in Relief ein ausgeschnittener Schild. Gut erhalten, einige kleine Bestofsungen. Wahrscheinlich aus Athen. Gewicht 217,879 gr. 871,516 gr.

237) Athen, arch. Gesellsch. n. 1255. Oben in Relief Schild ohne Ausschnitte. Sehr abgenutzt und stark verstofsen. Links oben noch Rest eines Buchstaben ρ . Gewicht . . . 216,19 gr. 864,76 gr.



1. First attempts to a global corpus

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Athens and Olympia

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Pondera Online



GRIECHISCHE GEWICHTE

A 1100

GESAMMELT, BESCHRIEBEN UND ERLÄUTERT

VON

DR. ERICH PERNICE

PRIVATDOCENT AN DER UNIVERSITÄT GREIFSWALD.

MIT EINER TAFEL.

2GA
36992



BERLIN

WEIDMANNSCHE BUCHHANDLUNG
1894.

THE ATHENIAN AGORA

RESULTS OF EXCAVATIONS

CONDUCTED BY

THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS

VOLUME X

WEIGHTS, MEASURES AND TOKENS

BY

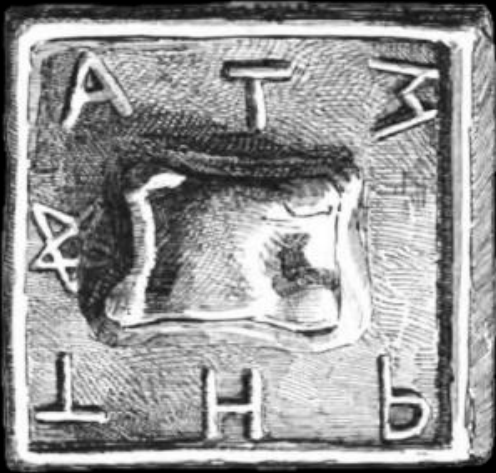
MABEL LANG AND MARGARET CROSBY



THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS
PRINCETON, NEW JERSEY

1964

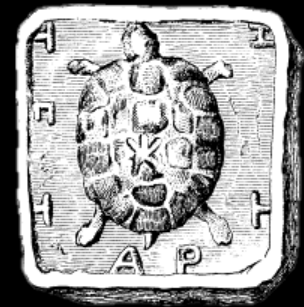
Athenian Weights



Stater



$\frac{1}{3}$ stater



$\frac{1}{4}$ stater



Mina = $\frac{1}{2}$ stater



$\frac{1}{6}$ stater



$\frac{1}{8}$ stater

C 2
D 17

DIE
INSCHRIFTEN

VON
OLYMPIA

3D190

BEARBEITET

VON

WILHELM DITTENBERGER UND KARL PURGOLD



VERLAG ADOLF M. HAKKERT · AMSTERDAM

1966

C 2
D 17

DEUTSCHES ARCHÄOLOGISCHES INSTITUT

X
DIE GEWICHTE
GRIECHISCHER ZEIT
AUS OLYMPIA

VON
KONRAD HITZL



1996

WALTER DE GRUYTER · BERLIN · NEW YORK

Olympian Weights



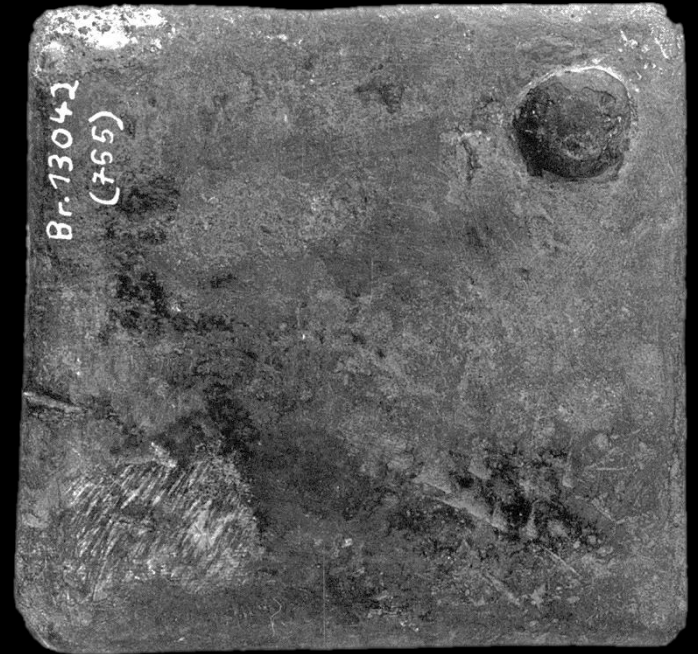
Talent = 60 minas (26,2 kg)

1 ex.

Olympian Weights



4 Minas (1740 g)



12 ex.

Olympian Weights

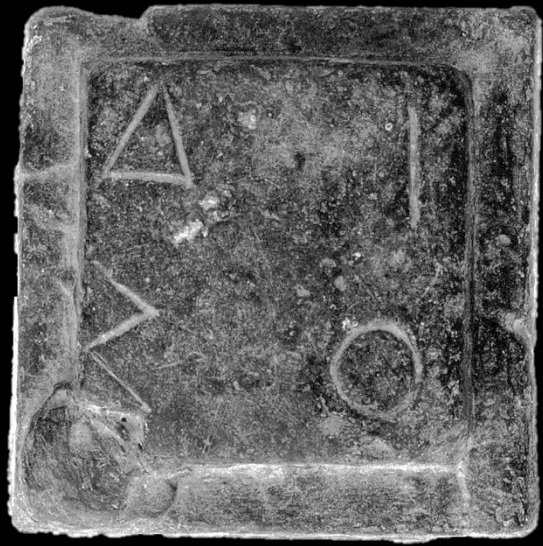


3 Minas (1305 g)



1 ex.

Olympian Weights



2 Minas (870 g)

22 ex.

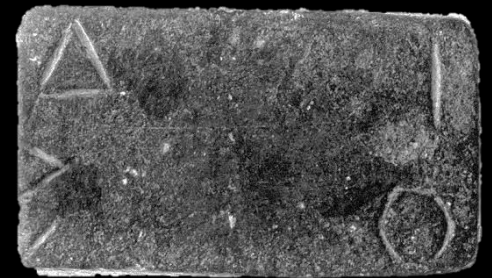
Olympian Weights



Mina (435 g)

52 ex.

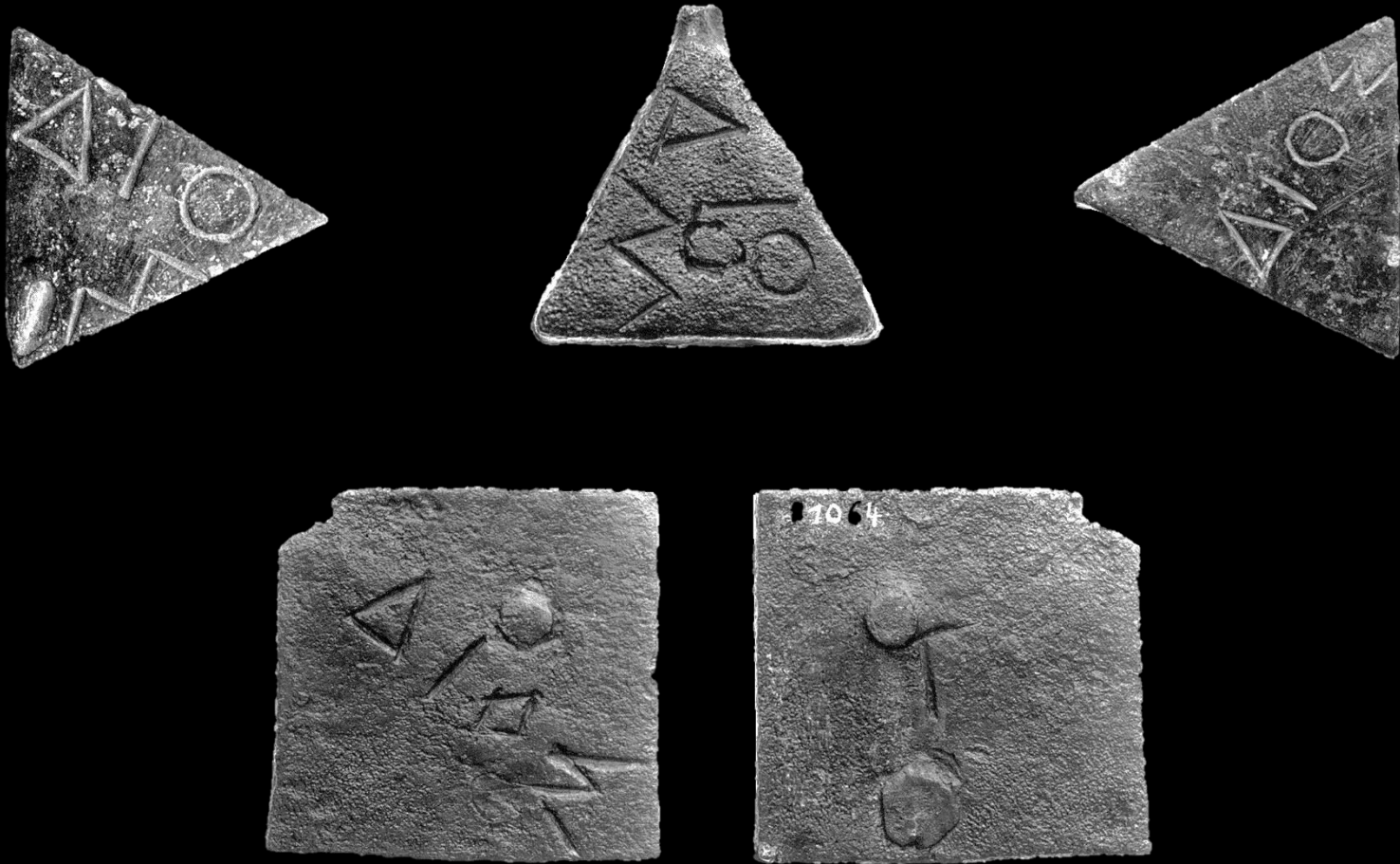
Olympian Weights



$\frac{1}{2}$ Mina (217 g)

65 ex.

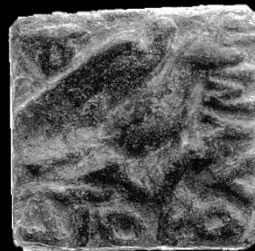
Olympian Weights



$\frac{1}{4}$ Mina (109 g)

48 ex.

Olympian Weights



$\frac{1}{8}$ Mina (61 g)

44 ex.

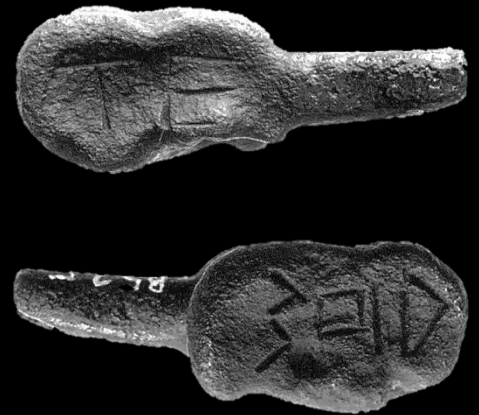
Olympian Weights



Mina (435 g)

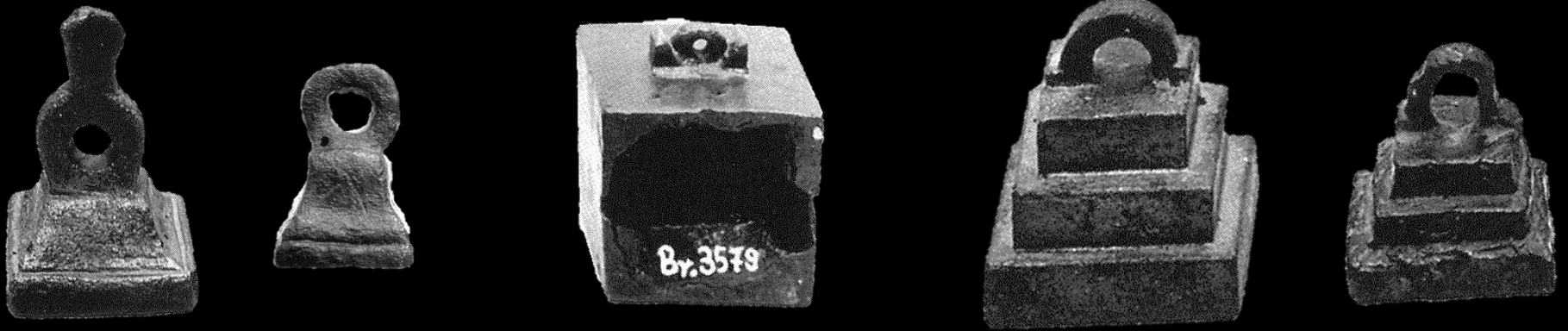


$\frac{1}{2}$ Mina (217 g)



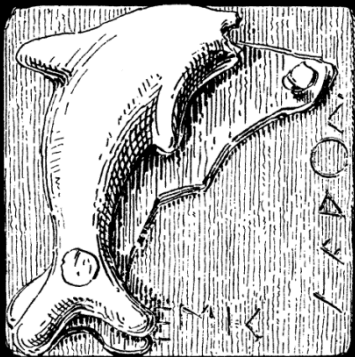
$\frac{1}{4}$ Mina (109 g)

Olympian Weights



9 ex.

Weight Increase



Mina = 100 drachmas
(435 g)



Mina = 105 drachmas
(454 g)



Mina = 112 drachmas
(487 g)



Mina = 100 drachmas
(435 g)



Mina = 105 drachmas
(454 g)



Mina = 112 drachmas
(487 g)



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THE AMERICAN SCHOOL OF CLASSICAL STUDIES AT ATHENS
PRINCETON, NEW JERSEY

1964

DEUTSCHES ARCHÄOLOGISCHES INSTITUT



DIE GEWICHTE GRIECHISCHER ZEIT AUS OLYMPIA

VON

KONRAD HITZL



1996

WALTER DE GRUYTER · BERLIN · NEW YORK

FONDATION EUGÈNE PIOT

CATALOGUE

DES

BRONZES ANTIQUES

DE LA BIBLIOTHÈQUE NATIONALE

Publié sous les auspices de l'Académie des Inscriptions et Belles-Lettres

PAR MM.

Ernest BABELON

Conservateur du Département des Médailles et Antiques

ET

J.-Adrien BLANCHET

Sous-Bibliothécaire au même Département

OUVRAGE ILLUSTRÉ DE 1.100 DESSINS PAR SAINT-ELME GAUTIER



PARIS

ERNEST LEROUX, ÉDITEUR

28, RUE BONAPARTE, 28

1895

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LES
BRONZES ANTIQUES
DU LOUVRE

PAR

A. DE RIDDER

CONSERVATEUR ADJOINT AU MUSÉE DU LOUVRE



TOME SECOND

LES INSTRUMENTS

Illustré de 60 planches en phototypie par CATALA Frères

OUVRAGE PUBLIÉ

AVEC LE CONCOURS DU MINISTÈRE DE L'INSTRUCTION PUBLIQUE ET DES BEAUX-ARTS
ET DE L'ACADÉMIE DES INSCRIPTIONS ET BELLES-LETTRES (Fonds Doulains)

PARIS

ERNEST LEROUX, ÉDITEUR

28, RUE BONAPARTE, VI^e

1915

{BnF

Médailles
et
Antiques

Médailles et Antiques de la Bibliothèque nationale de France > Notice d'oeuvre

poids (bronze.2237)

Adresse permanente de la notice

Désignation générale : poids
demi mine**Lieu de découverte :** [Grèce](#)**Précisions sur la découverte :** Découverte : Athènes
Pays : Grèce**Matières et techniques :** bronze (fonte)**Mesures :** L. 4.6 cm, Poids 255 g**Description :** poids quadrangulaire. Demi-mine. Inscription sur l'une des faces**Mode d'acquisition :** [achat](#)**Donateur(s),
testateur(s) ou
vendeur(s) :** [Lambros](#)**Date de l'acte
d'acquisition :** 27/08/1872**Ancienne(s)
appartenance(s) :** [Lambros](#)**Numéro d'inventaire :** bronze.2237**Autre(s) numéro(s) :** reg.K.1054**Bibliographie :** Babelon, Ernest, Blanchet, Jules-Adrien. Catalogue des Bronzes Antiques de la Bibliothèque nationale. Paris : 1895, p.676, n°2237.



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SEARCH



Weight Showing Dolphin Pierced with Harpoon

Created: Attica (?), 4th century BC

Found:

Name: Weight Showing Dolphin Pierced with Harpoon

Place: Attica (?)

Date: 4th century BC

Material: lead

Technique: cast

Dimension: 6.2x6.0 cm

Inventory Number: TP-16603

Category: Archaeological Artifacts

Collection: Antiquity

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Where to find It

Remark: Not on display.



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Weight with Amphora





Object Details

Title: Weight with Amphora

Artist/Maker(s): Unknown

Culture: Greek (Attic)

Place(s): Athens, Greece (Place created)

Date: second half of 5th century B.C.

Medium: Bronze filled with lead

Dimensions: 5.2 x 5.3 cm, 0.277 kg (2 1/16 x 2 1/16 in., 0.6107 lb.)

Credit Line: Gift of Barbara and Lawrence Fleischman

[See more](#) v

In antiquity, the Athenian government kept sets of official weights used to calibrate and verify the accuracy of other weights used in the city. These official weights were made of bronze rather than the usual, more easily alterable lead used for other weights. They also carried an inscription indicating that they belonged to the *Demosion* or public. This thick, square plaque is an Athenian official weight dating to the period from about 450 to 400 B.C. The symbol of an amphora in high relief and the inscription on the front indicate its value. The letters are an abbreviation for tritemorion, or one-third of a stater, a basic unit of weight at this time. The dotted inscription on the side of the weight is the abbreviation for *Demosion*. The stamped image of an owl, the symbol of Athens, on the front and side of the plaque are countermarks, indicating that the weight was periodically inspected. The back of the plaque is plain except for a rectangular cutting filled with lead to adjust the weight.

Provenance

Exhibitions

Bibliography

A Passion for Antiquities: Ancient Art from the Collection of Barbara and Lawrence Fleischman (October 13, 1994 to April 23, 1995) (25)

- The J. Paul Getty Museum, (Malibu), October 13, 1994 to January 15, 1995
- The Cleveland Museum of Art, (Cleveland), February 14 to April 23, 1995



weight

[Back to search results >](#)

Object type	weight ?
Museum number	1842,0728.536
Description	Lead weight: an amphora, 1/3 stater.
Culture/period	Attic ?
Date	6thC BC-5thC BC
Production place	Made in: Athens ?; (Europe,Greece,Attica,Athens)
Materials	lead
Dimensions	Weight: 272.12 grammes Length: 5.08 centimetres Width: 5.08 centimetres
Location	G69/25
Acquisition name	Purchased from: Thomas Burgon ?
Acquisition date	1842
Department	Greek & Roman Antiquities
Registration number	1842,0728.536

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Recommend





Antikensammlung Berlin: Antike Bronzen in Berlin



Staatliche Museen zu Berlin
Preußischer Kulturbesitz

[Home](#) [Projektinformation](#) [Datenbank](#) [Originaltext](#) [Hilfe](#) [Impressum](#)



Bilddatenbank: Antike Bronzen in Berlin

Die Bronzesammlung nach C. Friederichs, *Antike Bronzen und Geräte im Alten Museum (1871)* und weitere Erwerbungen bis 1945 (Bestände und Verluste).

Ein Projekt der Antikensammlung der Staatlichen Museen zu Berlin, 2004-2007 und 2008-2011 durchgeführt mit Unterstützung der DFG - Deutsche Forschungsgemeinschaft von Norbert Franken unter der Leitung von Wolf-Dieter Heilmeyer und Andreas Scholl.



Antikensammlung Berlin: Antike Bronzen in Berlin

[Home](#) [Projektinformation](#) [Datenbank](#) [Originaltext](#) [Hilfe](#) [Impressum](#)[Suche](#) [Resultat](#) [Mappe](#)Resultate: **129**

Sortierung: Inv. Nr. ▼ Ansicht: Detail ▼ Funktionen ▼ ◀ 98 ▶

**Inv. Nr.: Ol. 7652**

Einstufiges rechteckiges Gewicht (äginetischer Standard, Halbminenstück) mit griechischer Inschrift (ΔΙΟΣ) und Niete

Fotograf: Mirko Vonderstein

**Grunddaten**

Inv. Nr.: Ol. 7652

Gattung: Waagen und Gewichte

Titel: Einstufiges rechteckiges Gewicht (äginetischer Standard, Halbminenstück) mit griechischer Inschrift (ΔΙΟΣ) und Niete

Maße

Höhe: 1,1 cm (mit Niete 1,5 cm)

Breite: 3,9 cm



Grunddaten

Inv. Nr.: Ol. 7652

Gattung: Waagen und Gewichte

Titel: Einstufiges rechteckiges Gewicht (äginetischer Standard, Halbminenstück) mit griechischer Inschrift (ΔΙΟΣ) und Niete

Maße

Höhe: 1,1 cm (mit Niete 1,5 cm)

Breite: 3,9 cm

Länge: 6,1 cm

Gewicht: 205 g

Material: Bronze

Provenienz

Fundort: Olympia (Griechenland)

Erwerbungsdatum: 1889

Abbildungen: Skizze im Grabungsinventar (ungenau bzw. abweichend; darum Identität prüfen!)

Bemerkung: Falsch identifiziert, vgl. die Zeichnung bei Dittenberger-Purgold; die richtige Inv. des vorliegenden Gewichts ist wohl Ol. 13452. (NF)

Objektstatus: vorhanden

Literatur

W. Dittenberger – K. Purgold, Die Inschriften von Olympia, Olympia. Die Ergebnisse der von dem Deutschen Reich veranstalteten Ausgrabung V (1896) 810 Nr. 97 Abb.; K. Hitzl, Die Gewichte griechischer Zeit aus Olympia. OF 25 (1996) 187 f. Nr. 157.

Nomisma

Nomisma.org is a collaborative project to provide stable digital representations of numismatic concepts according to the principles of [Linked Open Data](#). These take the form of http URIs that also provide access to reusable information about those concepts, along with links to other resources. The canonical format of nomisma.org is RDF/XML, with serializations available in JSON-LD (including geoJSON-LD for complex geographic features), Turtle, KML (when applicable), and HTML5+RDFa 1.1.

While the URIs provided by nomisma.org are stable, the project is in progress and subject to constant expansion and ongoing correction. This is particularly the case for the information provided about each nomisma.org identifier.

The information provided by nomisma.org has been provided by a wide community of scholars and institutions.

The project is steered by a committee currently consisting of:

- Florence Codine, [BnF](#)
- Karsten Dahmen, [MK Berlin](#)
- Ethan Gruber, [ANS](#)
- Sebastian Heath, [NYU ISAW](#)
- Chris Howgego, [Ashmolean Museum, University of Oxford](#)
- Andrew Meadows, [ANS](#)
- Ulrike Peter, [Berlin-Brandenburg Academy of Sciences and Humanities](#)
- Daniel Pett, [BM PAS](#)
- Karsten Tolle, [DBIS, University of Frankfurt](#)
- David Wigg-Wolf, [DAI RGK](#)

Nomisma.org also hosts the [Numismatic Description XML Schema](#)

There are two Github repositories associated with the project. The application code is available in <https://github.com/nomisma/framework>. The RDF/XML data and ontology versions are in <https://github.com/nomisma/data>.

Example Nomisma.org URIs

Nomisma.org focuses on URIs for concepts that are unique to numismatics or which have a distinct meaning within the discipline. Examples are:

- <http://nomisma.org/id/axis>. The 'axis' is the angular relationship between the obverse and reverse of a coin.
- <http://nomisma.org/id/ephesus>. The 'mint' at Ephesus. Nomisma relates this numismatic concept to other URIs such as [wikipedia](#), [Pleiades](#), [Getty thesauri](#), and the [British Museum](#).
- <http://nomisma.org/id/quinarus>. Nomisma.org maintains lists of Roman and other denominations. To indicate that "quinarus" is a concept within Roman numismatics, the Dublin Core property "dcterms:source" relates this URI to http://nomisma.org/id/roman_numismatics.

Data Export

Nomisma Linked Data



Linked Data: [JSON-LD](#), [TTL](#), [RDF/XML](#)

Pelagios Annotations



VoID for Concepts: [RDF/XML](#)

VoID for Partner Objects: [RDF/XML](#)

Atom Feed



[Feed](#)
[Documentation](#)

Contributors

The following institutions have contributed data, specialist advice and/or financial support to the Nomisma project:



Classes

- CoinWear
- Collection
- Context
- Controlmark
- Corrosion
- Countermark
- Denomination
- DepositionType
- DieWear
- DiscoveryType
- Ethnic
- FieldOfNumismatics
- Find
- Manufacture
- Material
- Mint
- Mintmark
- Monogram
- NumismaticObject
- NumismaticTerm
- ObjectType
- Peculiarity
- PeculiarityOfProduction
- ReferenceWork
- Region
- SecondaryTreatment
- TypeSeries
- TypeSeriesItem
- Wear
- WeightStandard

Properties

- hasAppearance
- hasAuthority
- hasAxis
- hasBearsDate
- hasCollection
- hasControlmark
- hasCorrosion
- hasCountermark
- hasDate
- hasDenomination
- hasDepth
- hasDiameter
- hasDie
- hasEdge
- hasEndDate
- hasFindType
- hasFindspot
- hasHeight
- hasIconography
- hasIssuer
- hasLegend
- hasManufacture
- hasMaterial
- hasMaxDepth
- hasMinDiameter
- hasMinHeight
- hasMinWidth
- hasMint
- hasMintmark
- hasMonogram
- hasObjectType
- hasObverse
- hasPeculiarity
- hasPeculiarityOfProduction
- hasPortrait
- hasProductionDate
- hasProductionObject
- hasReferenceWork
- hasReverse
- hasSecondaryTreatment
- hasStartDate
- hasStatedAuthority
- hasTypeSeriesItem
- hasWear
- hasWeight
- hasWeightStandard
- hasWidth
- representsObjectType

General Principles of the Pondera Online Database

- MySQL relational database
- Based on the nomisma.org standards
- Online, Open access
- Selected contributors
- Trilingual: English, French, German
- Detailed search tools, in order to generate Excel tables, graphs, maps, etc.
- Conceived for ancient Greek weights, but easily adaptable to specific needs (e.g. other period and/or other region)
- Project funded by the Belgian Funds for Scientific Research (FNRS) for two years (July 2016 – July 2018)

Structure of the Pondera Online Database

- Photographs of the weight
- Denomination(s) of the weight (based on )
e.g. 1 Talent, 2 Minas, 1/3 Stater, etc.
- Place of production = “mint” (based on )
e.g. Athens, Olympia, etc.
- Finding Place (based on the ISO 3166-2)
e.g. Attica (GR-A1), Boiotia (GR-03), Euboia (GR-04), etc.
- Storage place(s)
e.g. Archaeological Society (25/05/1884 -31/12/1901),
National Archaeological Museum (01/01/1902 - 13/06/1912),
Numismatic Museum (13/06/1912 – today)

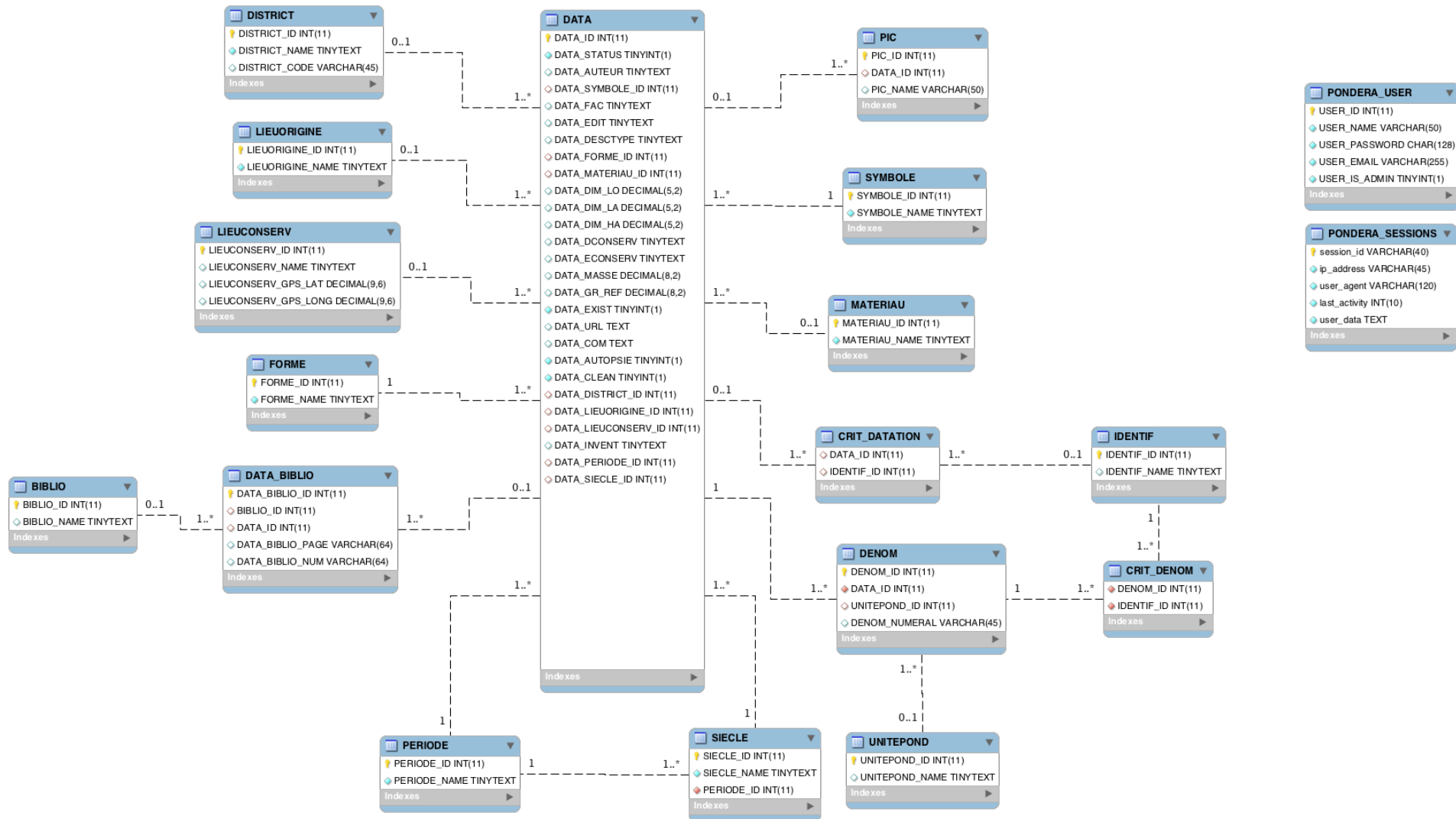
Structure of the Pondera Online Database

- Dating of the weight
 - e.g. Archaic period (8th–6th c. BCE), Classical period (5th–4th c. BCE), etc.
- Archaeological description:
 - Material: e.g. bronze, lead, silver, stone, glass, etc. (cf. [Δ^SΑnomisma.org](https://www.nomisma.org))
 - Size (in cm): length x width x height (cf. [Δ^SΑnomisma.org](https://www.nomisma.org))
 - Shape: e.g. triangle, square, pyramid, sphere, etc.
 - Main symbol: e.g. dolphin, turtle, amphora, etc. (cf. [Δ^SΑnomisma.org](https://www.nomisma.org))
 - Wear and conservation status (based on [Δ^SΑnomisma.org](https://www.nomisma.org))

Structure of the Pondera Online Database

- Inscription (if any):
 - Fac-simile
 - Edition (based on  EpiDoc standards)
- Object description [free text].
- Metrological analysis:
 - Weight (based on ): e.g. 220g (for ½ mina)
 - Standard weight: e.g. 440g (i.e. 1 mina)
- Hyperlink to another database
- Free commentary
- Bibliography

Architecture of the Pondera Online Database



[Gestion des fiches](#)[Gestion des standards ▼](#)[Gestion des utilisateurs](#)[Liste des fiches](#)[Créer une fiche](#)[Recherche](#)

Photographies

[Ajouter des photos](#)

Dénomination

Numéral
Unité pondérale
Critères d'identification

1 1.0000 Statère(s) ▼

[Inscription ×](#) [Symbole principal ×](#)

2 0000.0000 Sélectionner... ▼

3 0000.0000 Sélectionner... ▼

4 0000.0000 Sélectionner... ▼

Identification

N° FICHE (Read only) 213

Statut: En travail (privée) ▼

Auteur (Read only) doyenc

Lieu d'origine (production)

Lieu d'origine (production) Athènes ▼

Lieu de provenance (trouvaille)

District 11/GR/A1. Αττική ▼

Lieu de conservation

Lieu de conservation Athènes, Musée de l'... ▼

N° inventaire B 495

Pièce perdue ou détruite ☐

Datation

Période 1. Époque archaïque ... ▼

Siècle ▼

Critère de datation

[Contexte de fouille ×](#)

Description archéologique

Matériau	Bronze ▼
Longueur (cm)	6.40
Largeur (cm)	6.30
Hauteur (cm)	3.40
Forme	Carré ▼
Symbole principal	Astragale ▼
Degré de conservation	Bon ▼
Etat de conservation	Intact ▼
Objet nettoyé	☒

Inscription (fac-simile)

1. ΕΤΑΤΕΡ
2. ΔΕΜΟΕΙΟΝ ΑΘΕΝΑΙΟΝ

Inscription (édition)

1. Ετατέρ
2. Δεμόσιον Αθηναίων

Description du type

Square corners and edges. Bronze with high lead content. Added in relief, an astragalos; incised letters: Ετατέρ. Incised around two of the sides: Δεμόσιον Αθηναίων. Good condition.

Analyse métrologique

Masse (g)	795.00
Etalon de référence (g)	795.00

Bibliographie

	Bibliographie	Page	Numéro
1	Lang & Crosby 1964 ▼	25	BW 1
2	Selectionner... ▼		
3	Selectionner... ▼		
4	Selectionner... ▼		

Divers

Autopsie ☐

Hyperlien

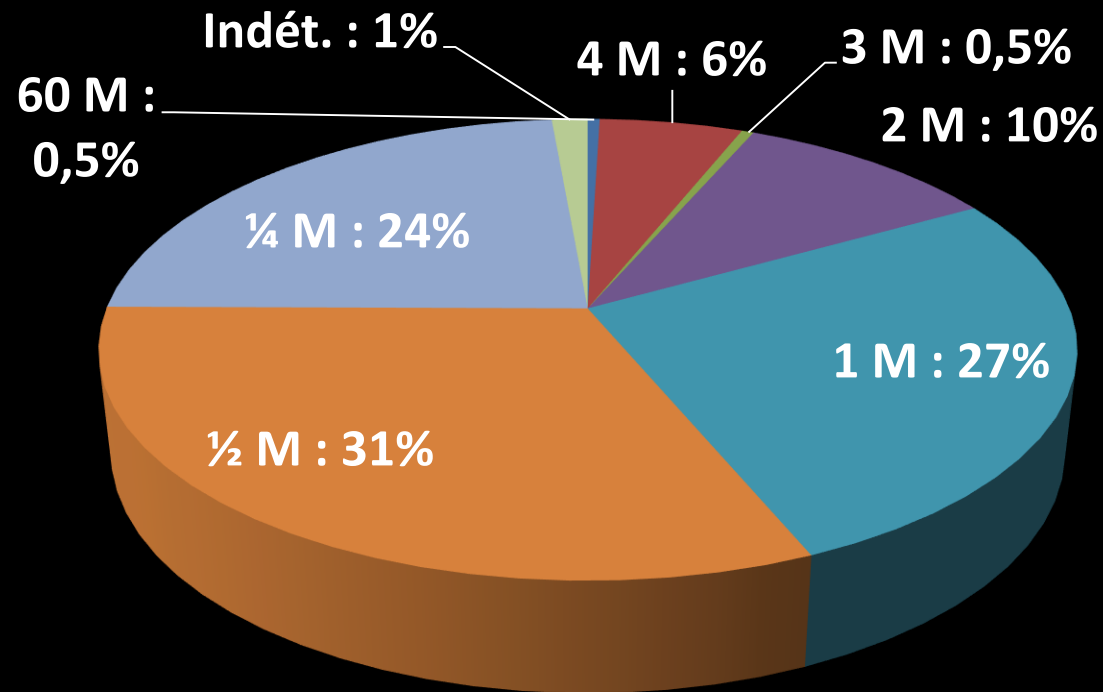
Commentaire

Found on Athenian Agora, D 15:1. Ca. 500 B.C. Hesperia, VII, 1938, p. 362.

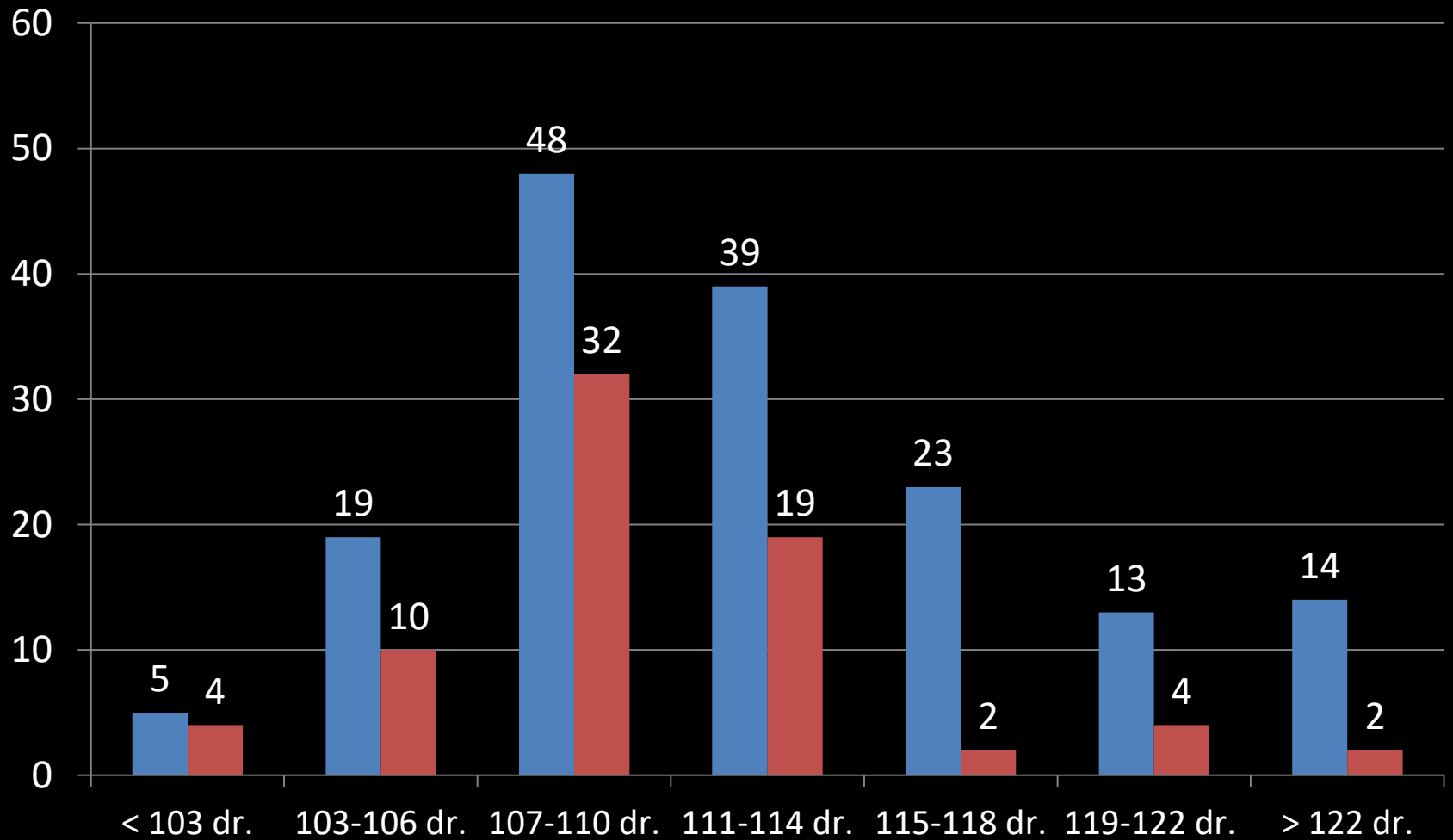
[Retour à la liste des fiches](#)

Modification désactivée

Pie Chart



Distribution Graph



161 ex. (73 ex. $\geq \frac{1}{2} M$)

Distribution Map



Pondera Online Team



Dr. Charles Doyen
Project leader



Dr. Simone Killen
Postdoc researcher

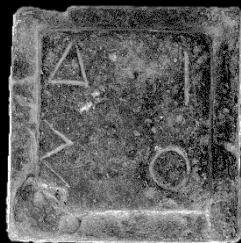
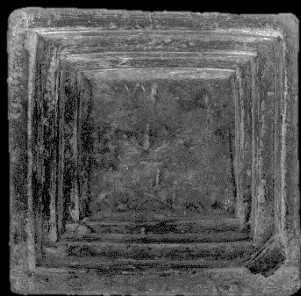


Louise Willocx
PhD student



Patrick Kalume
Computer technician

<http://sites.uclouvain.be/pondera>



Pondera Online

*A Digital Database of Ancient Commercial Weights
from the Aegean Zone (6th Century BCE – 2nd Century CE)*

Charles DOYEN (F.R.S.-FNRS / UCLouvain)

Workshop “Weights and their Identification” (München, June 25-26, 2016)

