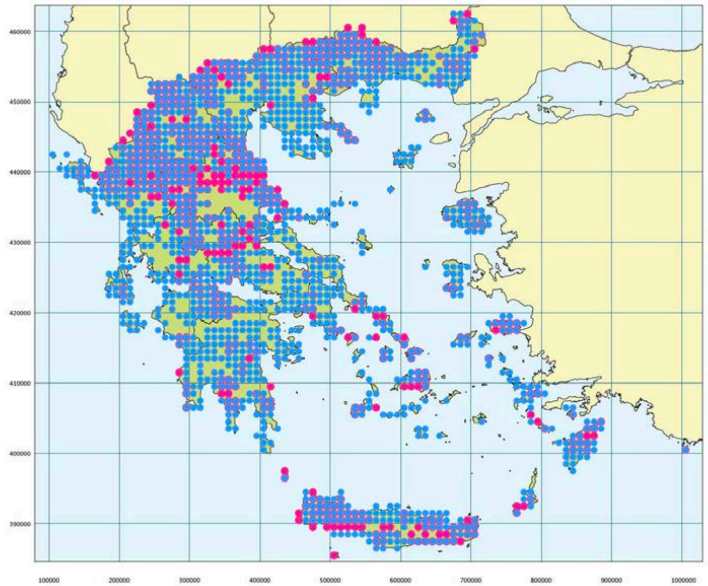
ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

Νέοι Χάρτες κατανομής των ειδών 3.3', νέος Χάρτης 3.4', νέος Χάρτης 4.15΄και νέος Χάρτης 4.16'
(επικαιροποίηση 2018)

του Λάζαρου Ν. Παμπέρη



THE BUTTERFLIES OF GREECE

New Maps distribution of species 3.3', new Map 3.4', new Chart 4.15' and new Chart 4.16'
(update 2018)

by Lazaros N. Pamperis

2018

ΠΡΟΛΟΓΟΣ

Στις επόμενες σελίδες παρουσιάζονται νέοι 241 χάρτες εξάπλωσης των ειδών δηλαδή οι Χάρτες 3.3', νέος Χάρτης 3.4' (ανάλογος με αυτόν στην σελίδα 40 της δεύτερης έκδοσης του βιβλίου ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ, 2009), νέος Χάρτης 4.15' (στην σελίδα 736) και νέος Χάρτης 4.16' (στην σελίδα 738).

Οι νέοι αυτοί χάρτες έχουν συντεταγμένες του συστήματος GGRS87 και αφορούν συνολικά όλες τις 1478 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται στους Χάρτες 4.3' η **AOO (Area Of Occupancy)** σε Km^2.

Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 371870 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2017 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση (κατά 28.70%) των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2018) αλλά κυρίως στην προσφορά και των προσωπικών καταγραφών για τις πεταλούδες της Ελλάδας από πολλούς από την Ελλάδα και το εξωτερικό. Σε όλους όσους προσέφεραν και εμπιστεύθηκαν τις καταγραφές των, αφιερώνεται το παρόν μαζί με την ευγνωμοσύνη μου.

Στη δεύτερη έκδοση το 2009, παρουσιάστηκαν 234 είδη και το *Cacyreus marshalli*. Στα 235 αυτά είδη πρέπει να προστεθούν τα δύο νέα για την Ελλάδα είδη: *Melitaea syriaca* και *Boloria selene.* Κατά την διάρκεια του έτους 2017 προστέθηκαν στις πεταλούδες της Ελλάδας το είδος *Polyommatus timfristos* (νέο στην επιστήμη) και επίσης το σπάνιο είδος *Muschampia cribrellum*. Τώρα στην Ελλάδα υπάρχουν **239** είδη πεταλούδων.

Δύο επί πλέον χάρτες για τα είδη *Thaleropis ionia* (στο Καστελλόριζο) και *Deudorix livia* (στην Αττική) παρουσιάζονται, αν και δεν έχει επιβεβαιωθεί έως σήμερα η παρουσία των στην Ελλάδα .

Σε ωρισμένες από τις 247 σελίδες παρουσιάζονται, κατά περίπτωση εάν απαιτείται, και πρόσθετα διευκρινιστικά σχόλια. Για επιπλέον 165 νέες φωτογραφίες και περισότερες λεπτομέρειες στο URL: http://www.pamperis.gr και στις 6 ελεύθερες εφαρμογές στο http://www.pamperis.gr/btf_site/

Λάρισα 16 Μαίου 2018

Λάζαρος Ν. Παμπέρης

PREFACE

The new Maps 3.3' (of distribution of species) are presented, the new Map 3.4' (as in the page 40 of the second edition of the book THE BUTTERFLIES OF GREECE, 2009), the new Chart 4.15' (as in page 736) and the new Chart 4.16' (as in page 738).

The new Maps are made with coordinates in GGRS87, after in total 371870 records for the butterflies of Greece (till 31 XII 2017) for a total number of 1478 investigated localities 10X10 km (compare to 265134 records, in 2008). For all species **AOO (Area Of Occupancy)** is noted on Maps 3.3' in Km^2.

This increase (of 28.70%) in records is made after personal investigations (from 2008-2018) and mainly after generous offer from so many recorders for the butterflies of Greece, from Greece and abroad. This update is dedicated to all those who send and trust to me their records; to all I express my gratitude.

In the second edition of the book 234 species were presented and additionaly the species Cacyreus marshalli. Two new (for Greece) species should be added to these 235 species: Melitaea syriaca and Boloria selene. During 2017 new discoveries for the butterflies of Greece were made: species Polyommatus timfristos (new in Science) and also the rare species Muschampia cribrellum. The total number of species of the butterflies of Greece is now up to **239**.

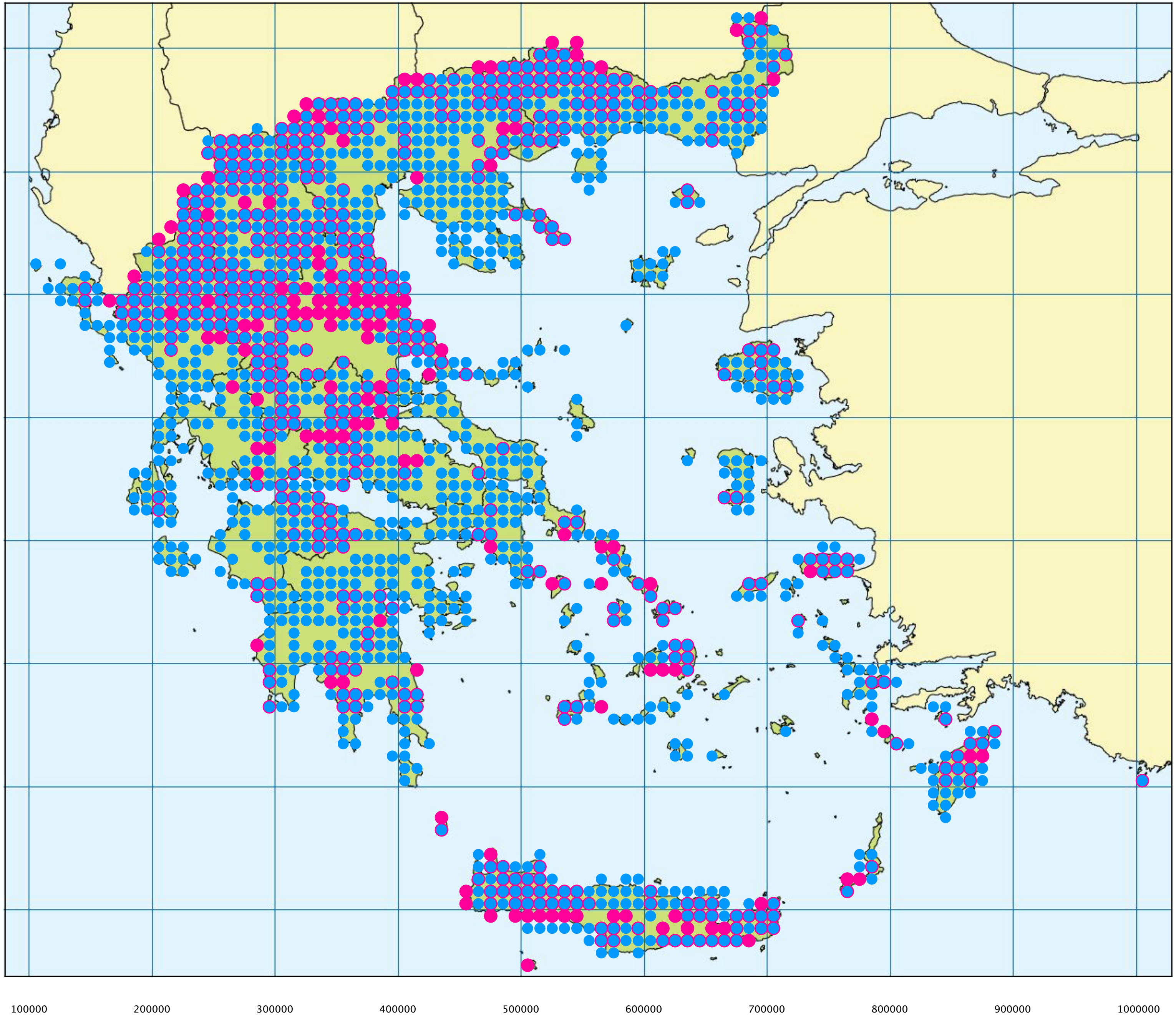
Two more Maps are presented for Thaleropis ionia (in Kastellorizo island) and Deudorix livia (in Attika); however the presence of this two species is not confirmed yet.

Additional comments are noted in some of the 247 pages.

For 165 new photographs, 6 free applications and more details see in URL: http://www.pamperis.gr and in http://www.pamperis.gr/btf_site/

Larissa 16 May 2018

Lazaros N. Pamperis



Map 3.4' (update 2018 and version in GGRS87) All 1478 Investigated localities 10X10km for all species

Χάρτης 3.4' (επικαιροποίηση 2018 με συντεταγμένες GGRS87) 'Ολες οι 1478 εξερευνηθείσες τοποθεσίες 10X10 km για όλα τα είδη

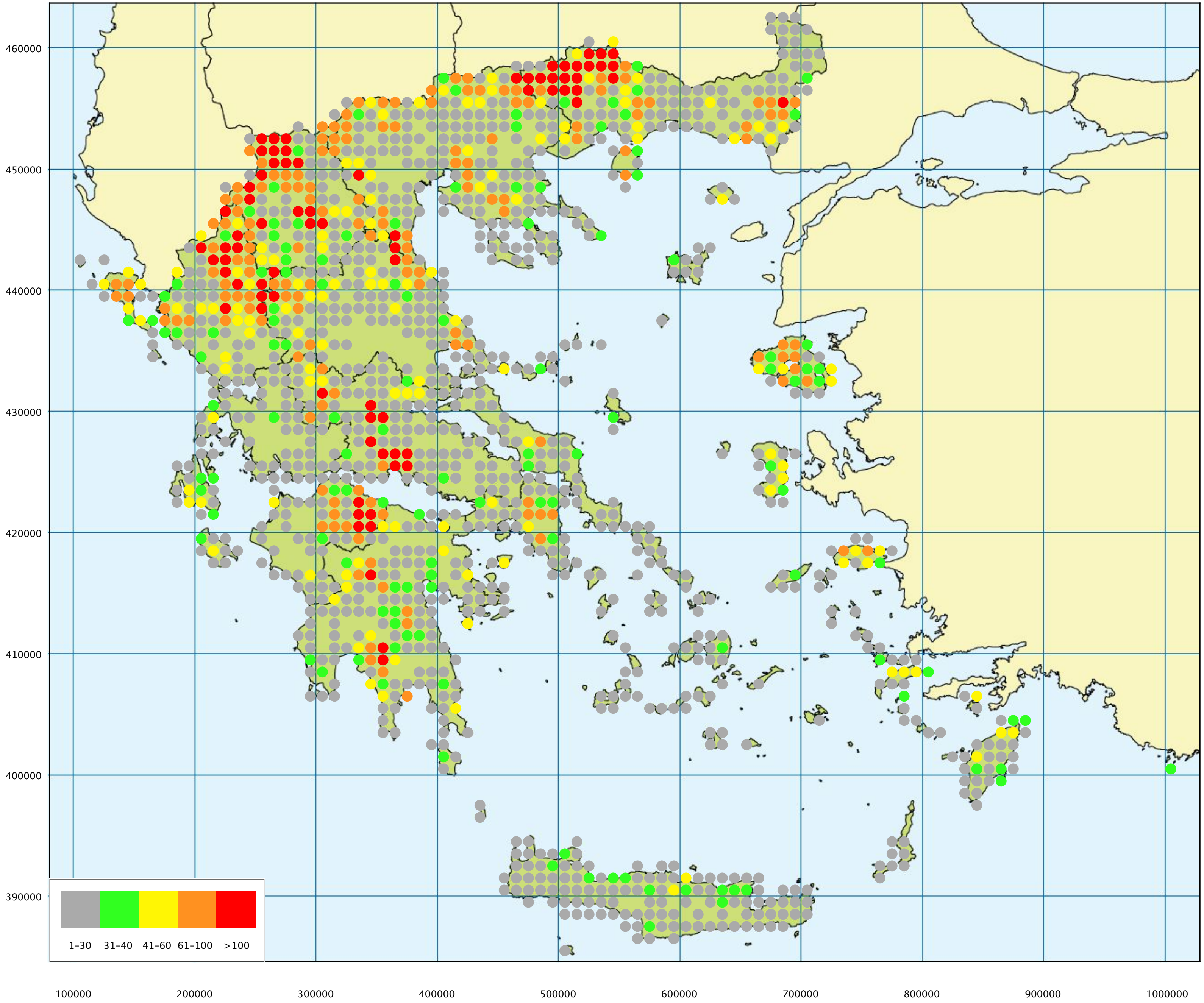


Chart 4.15' (update 2018 and version in GGRS87)
Total number of species for all 1478 localities 10X10 km

Χάρτης 4.15' (επικαιροποίηση 2018 με συντεταγμένες GGRS87) Συνολικός αριθμός των ειδών για όλες τις 1478 τοποθεσίες 10X10 km

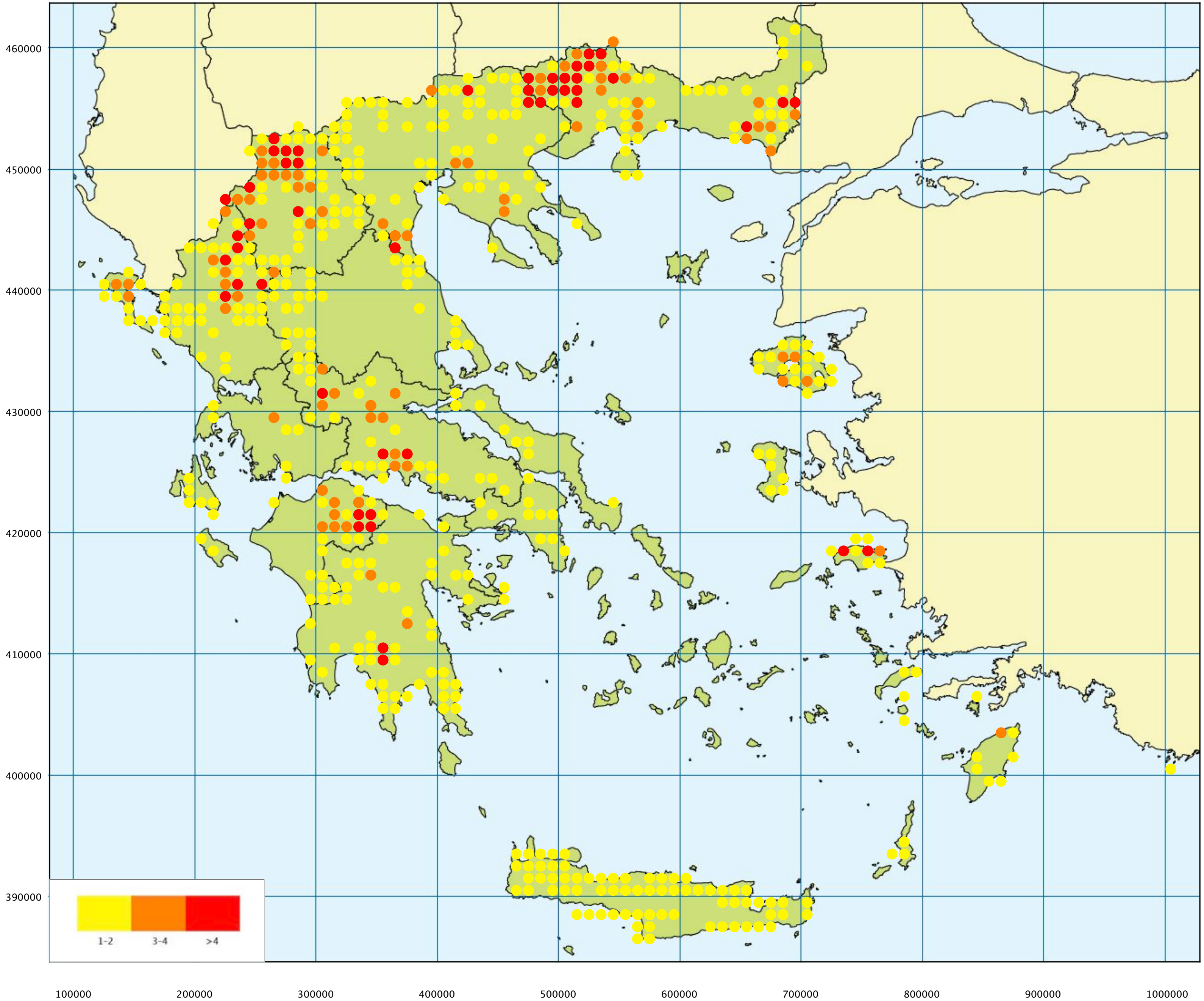
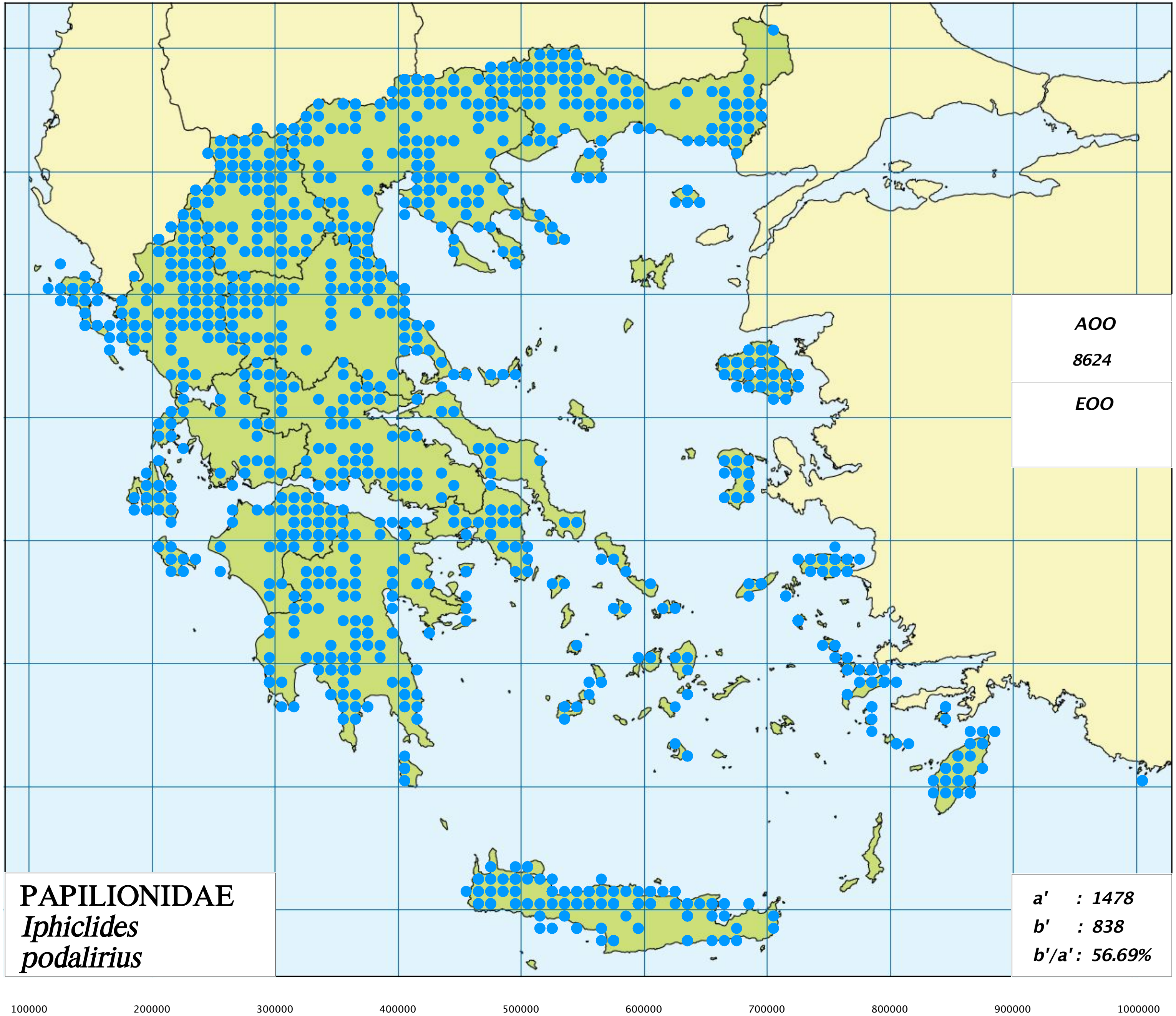
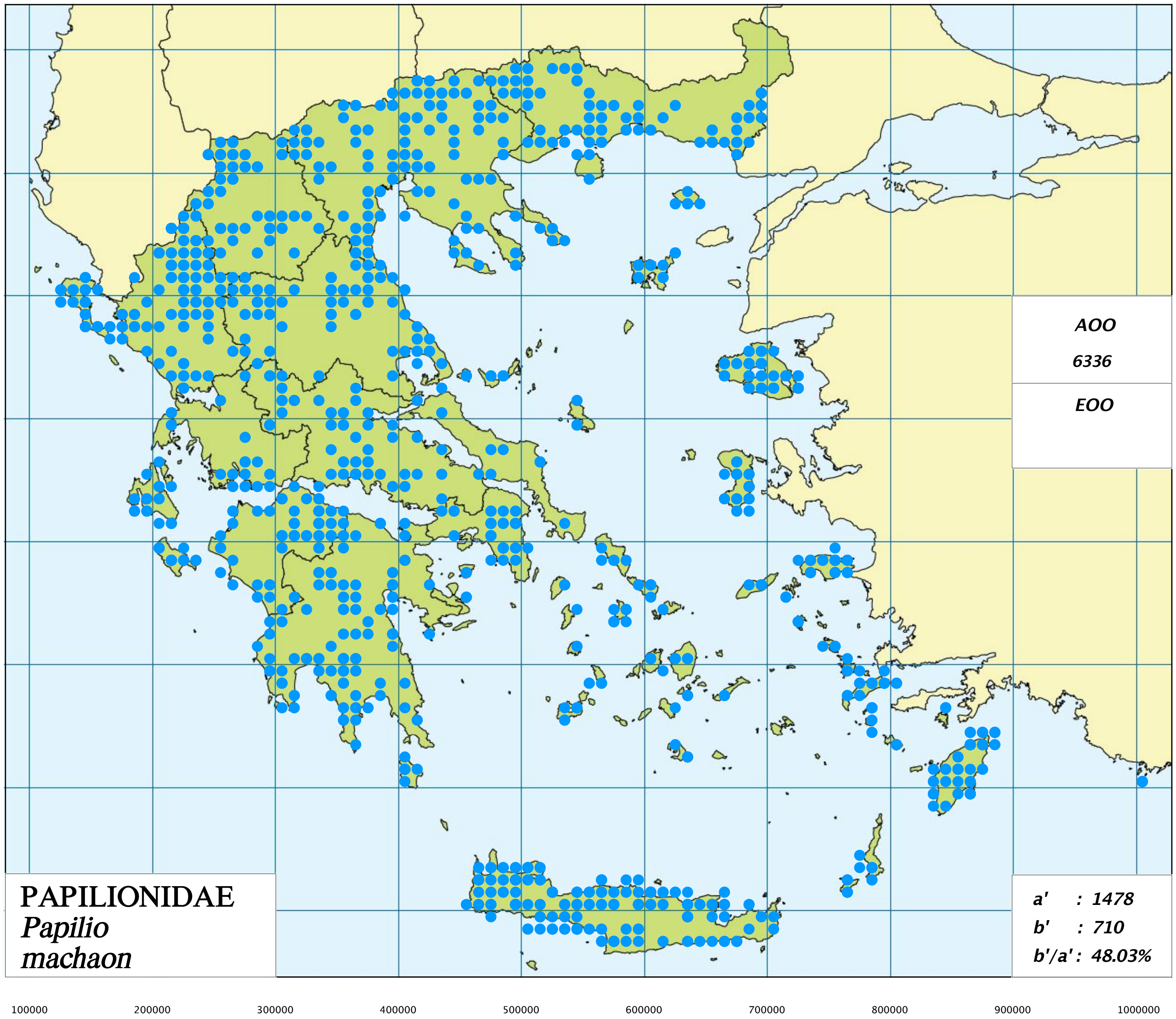


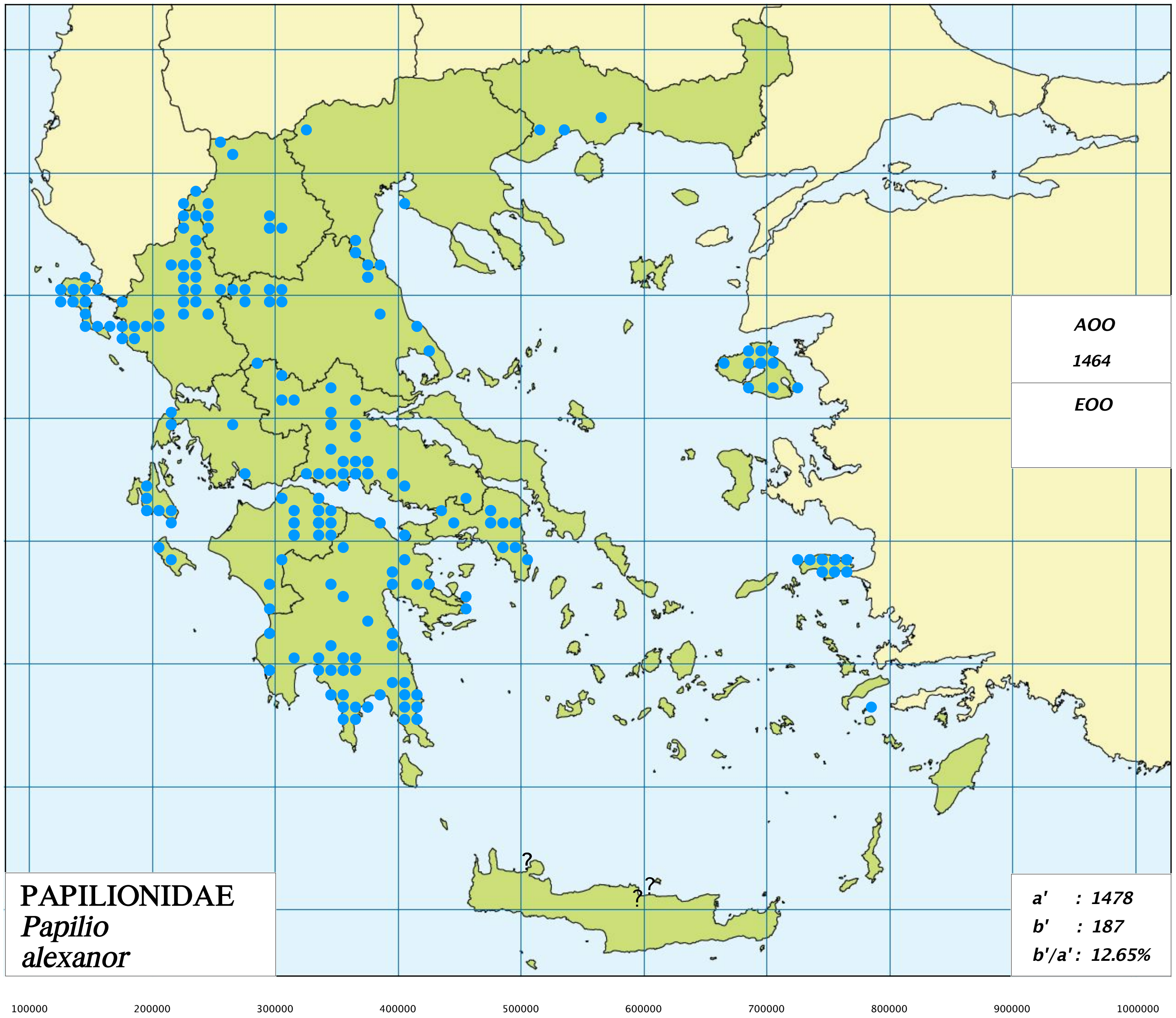
Chart 4.16' (update 2018 and version in GGRS87) Important butterfly areas in Greece

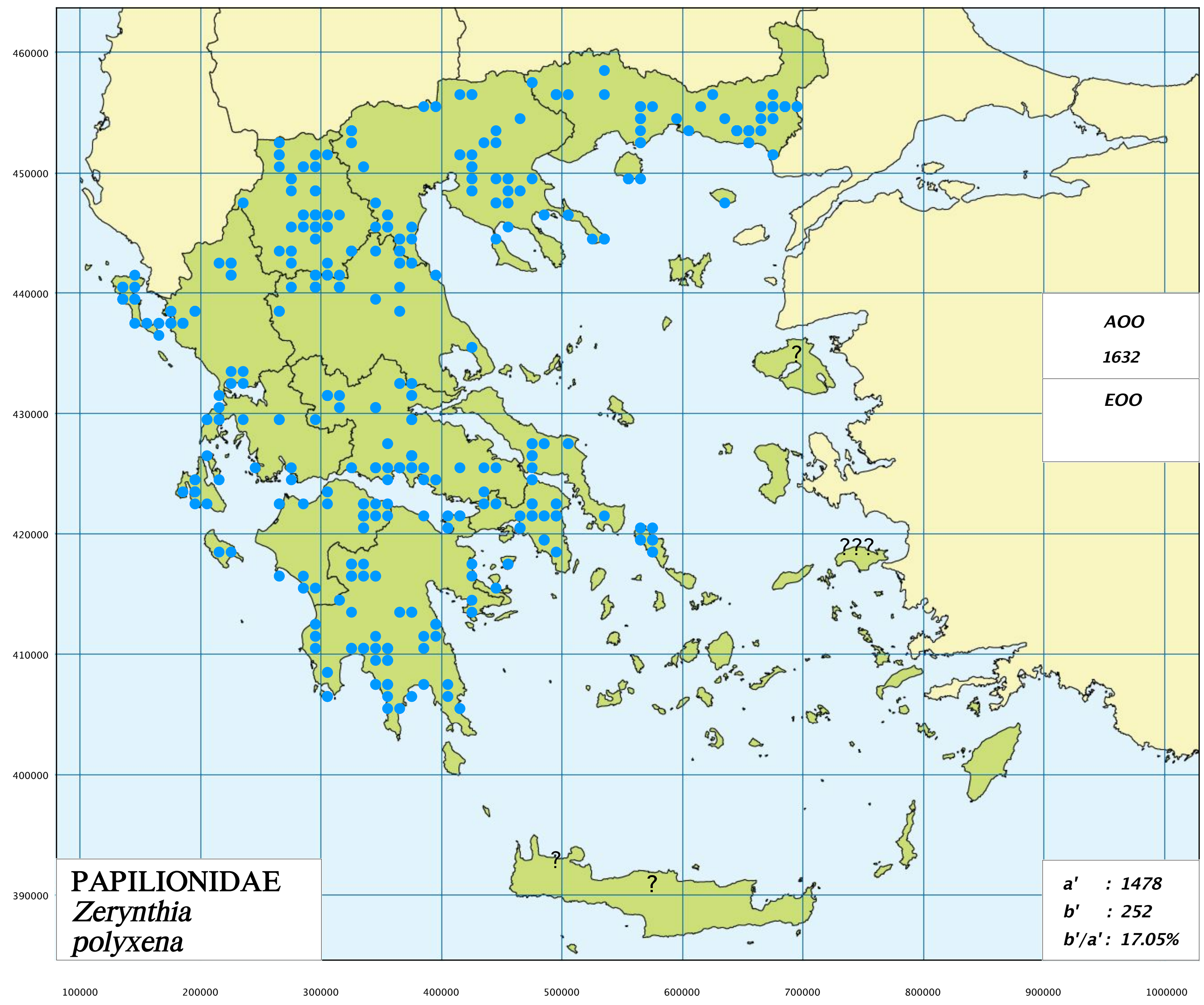
Χάρτης 4.16' (επικαιροποίηση 2018 με συντεταγμένες GGRS87) Σημαντικές περιοχές για τις πεταλούδες της Ελλάδας

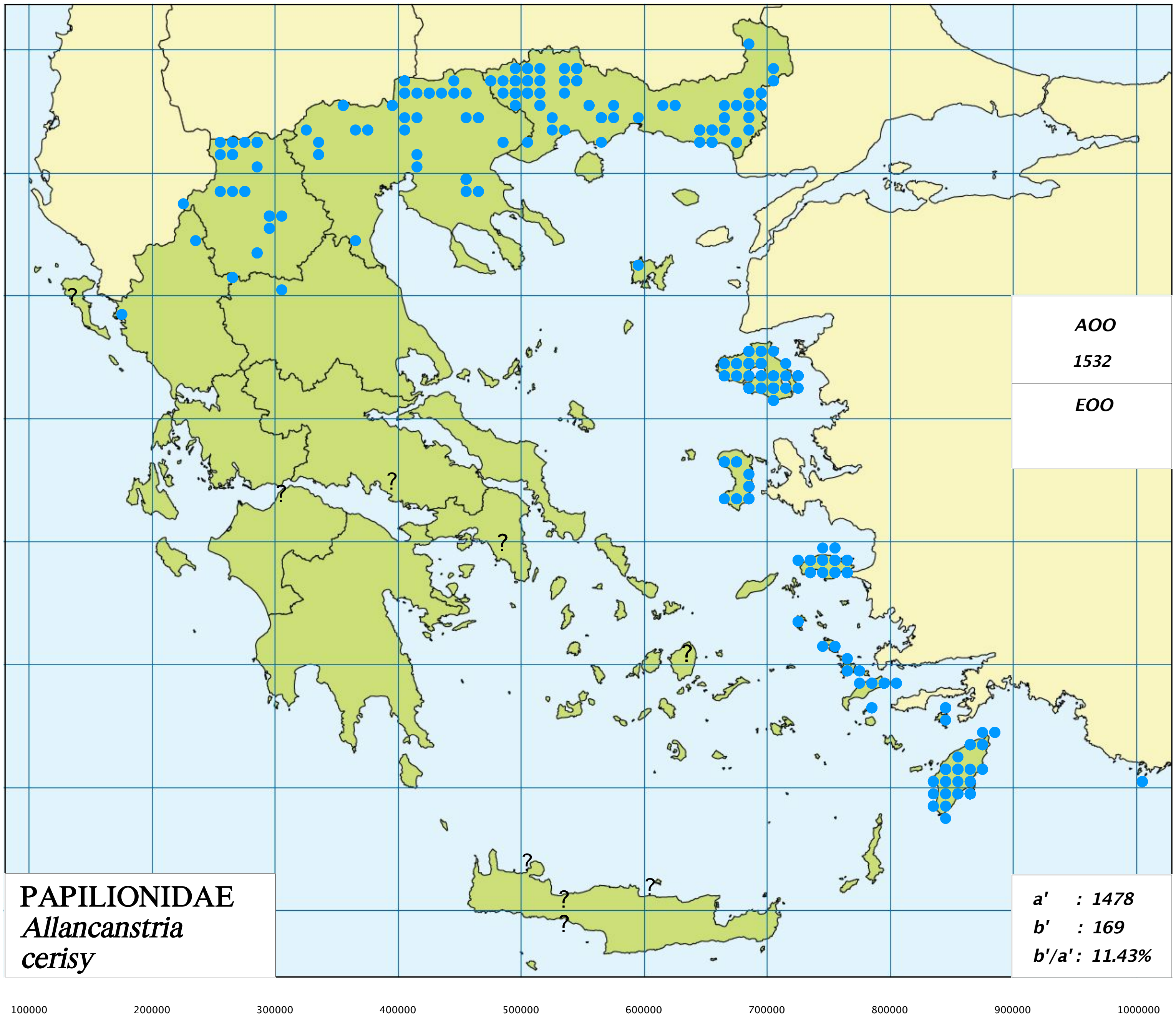


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
8624
EOO
PAPILIONIDAE
Iphiclides podalirius
a' : 1478
b' : 838
b'/a' : 56.69%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
6336
EOO
PAPILIONIDAE
Papilio
machaon
a' : 1478
b' : 710
b'/a' : 48.03%

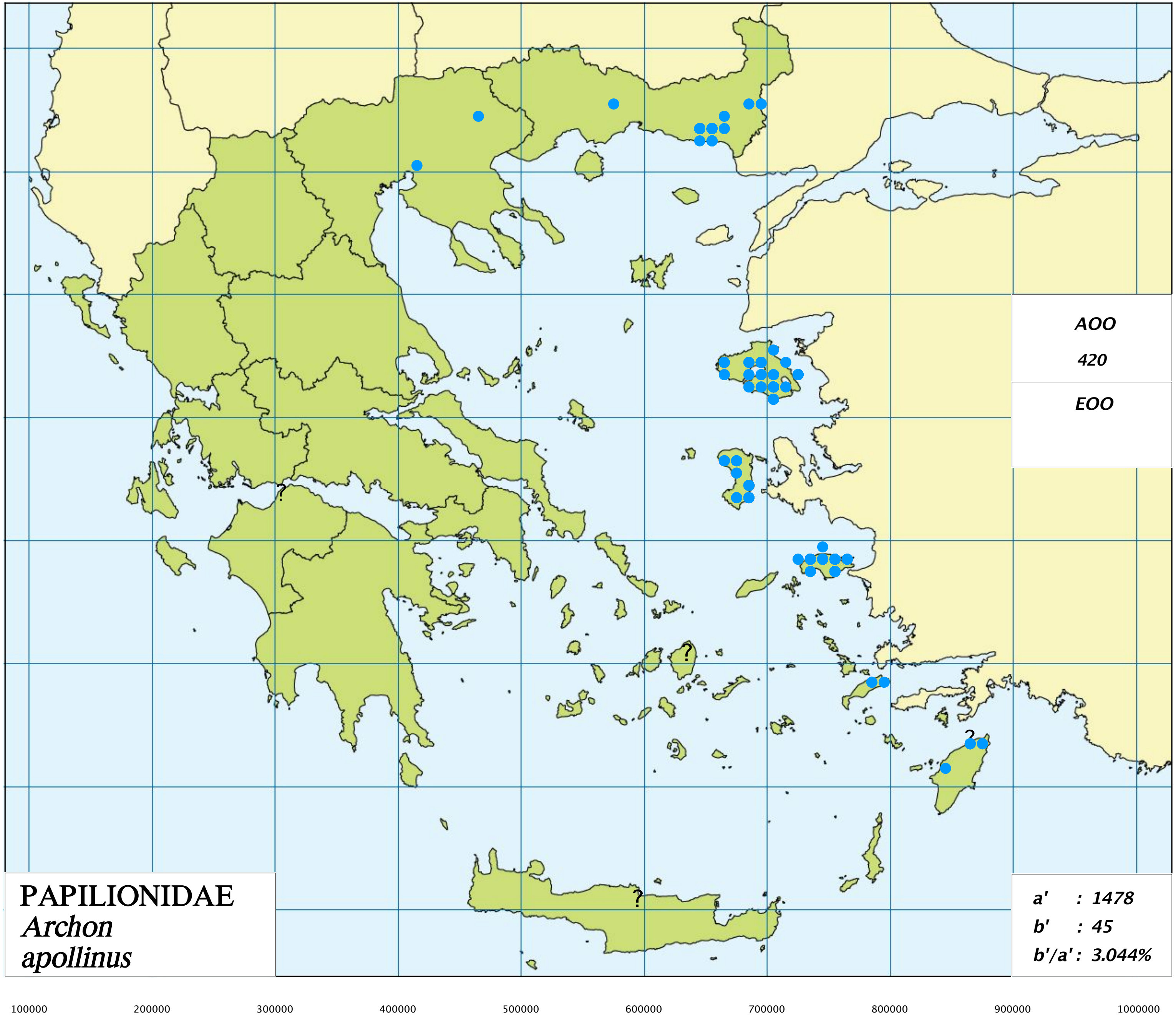

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1464
EOO
PAPILIONIDAE
Papilio
alexanor
a' : 1478
b' : 187
b'/a' : 12.65%

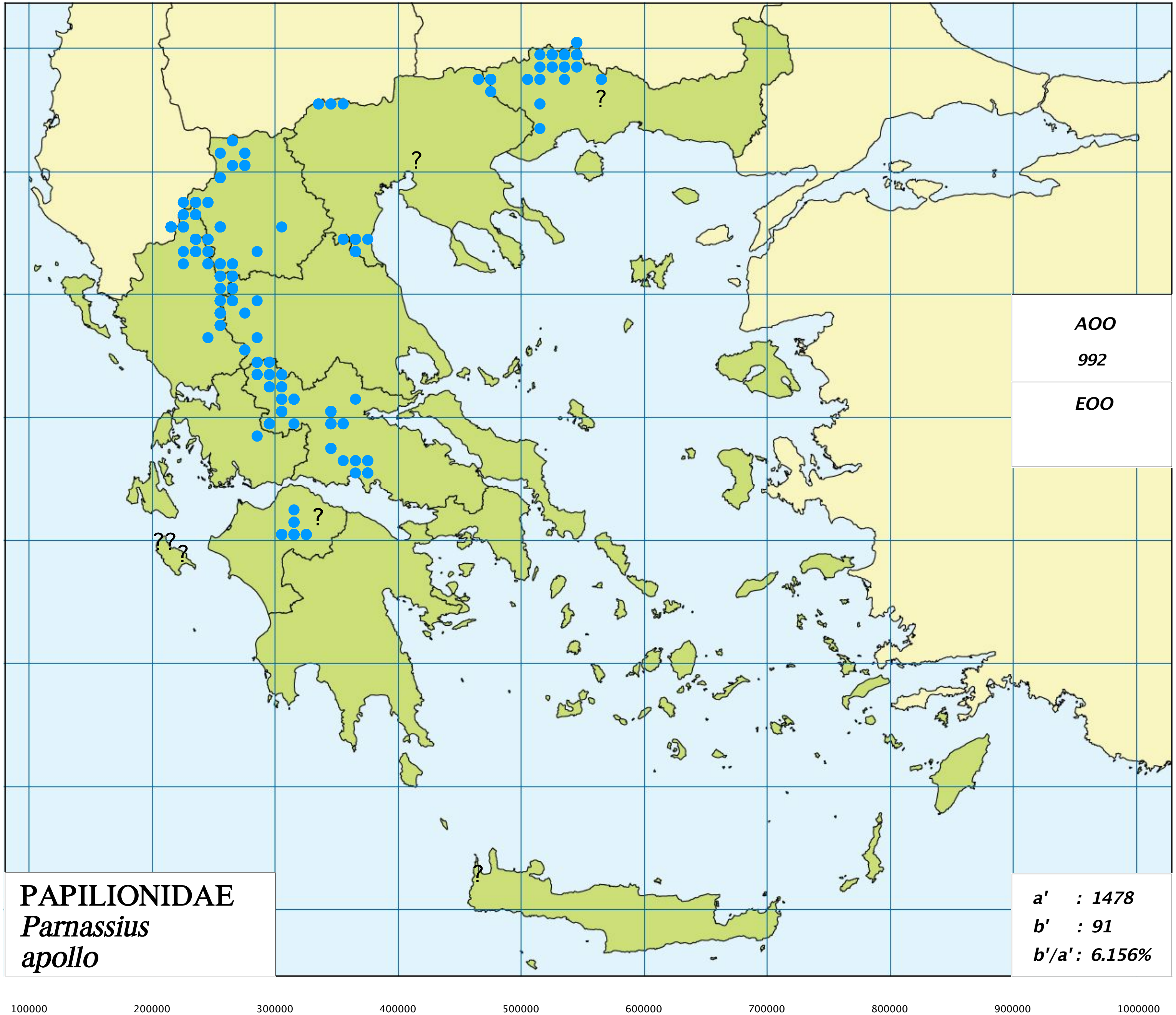

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1632
EOO
?
???
?
?
PAPILIONIDAE
Zerynthia polyxena
a' : 1478
b' : 252
b'/a' : 17.05%



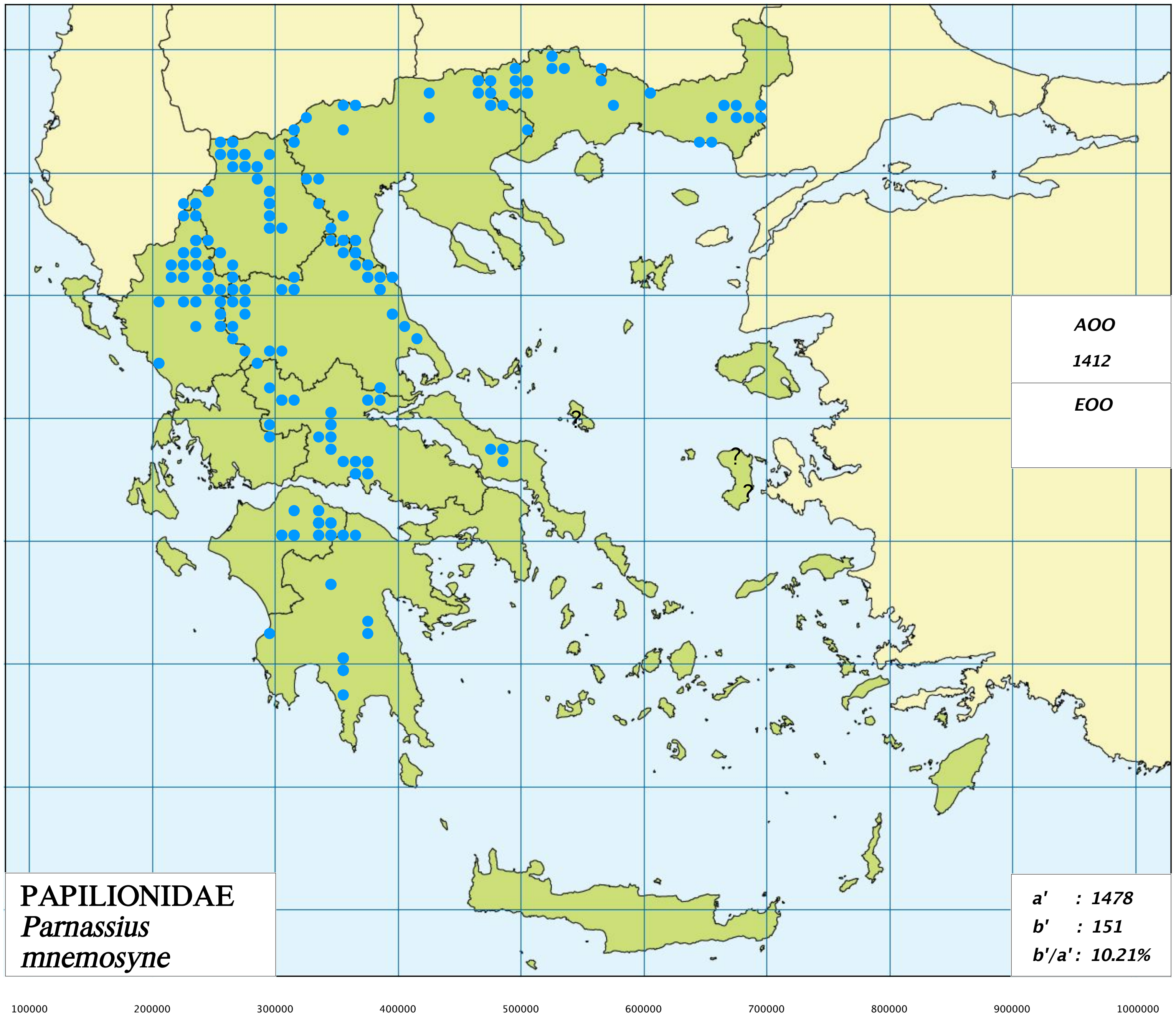
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1532
EOO
PAPILIONIDAE
Allancanstria cerisy
a' : 1478
b' : 169
b'/a' : 11.43%

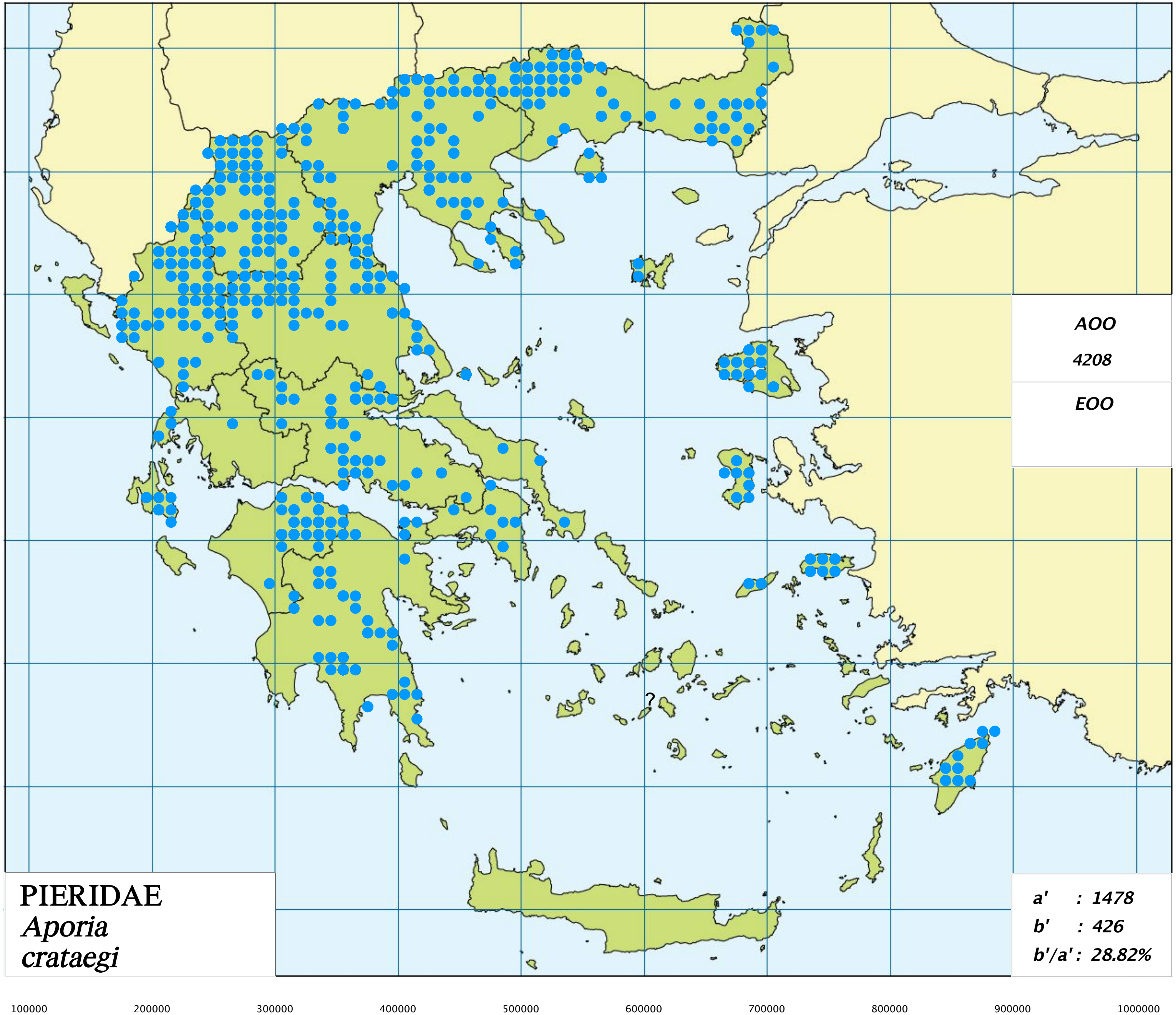

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
648
EOO
PAPILIONIDAE
Allancastria cretica
a' : 1478
b' : 70
b'/a' : 4.736%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
420
EOO
?
?
?
?
PAPILIONIDAE
Archon apollinus
a' : 1478
b' : 45
b'/a' : 3.044%

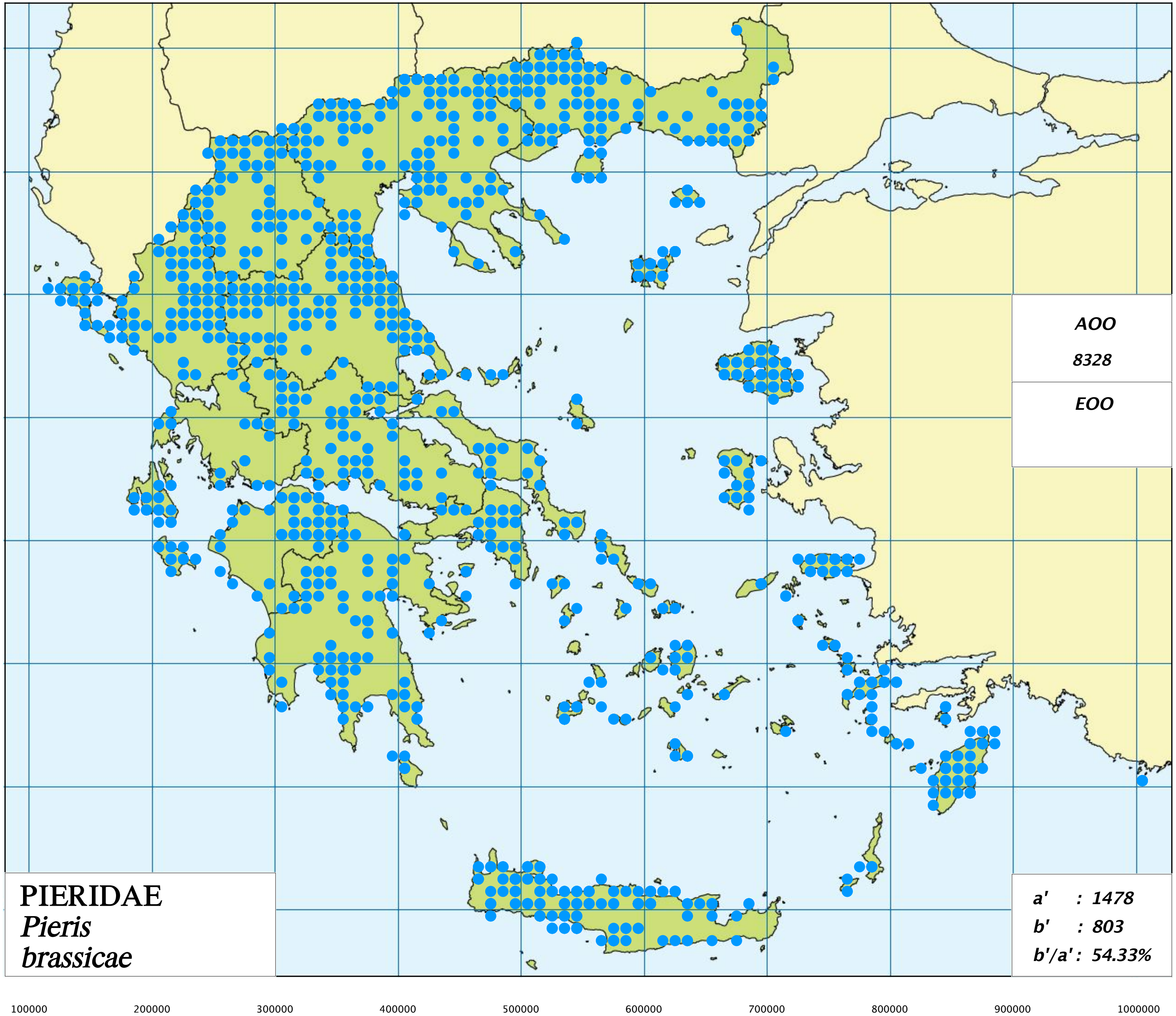


PAPILIONIDAE
Parnassius
apollo
AOO
992
EOO
a' : 1478
b' : 91
b'/a' : 6.156%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

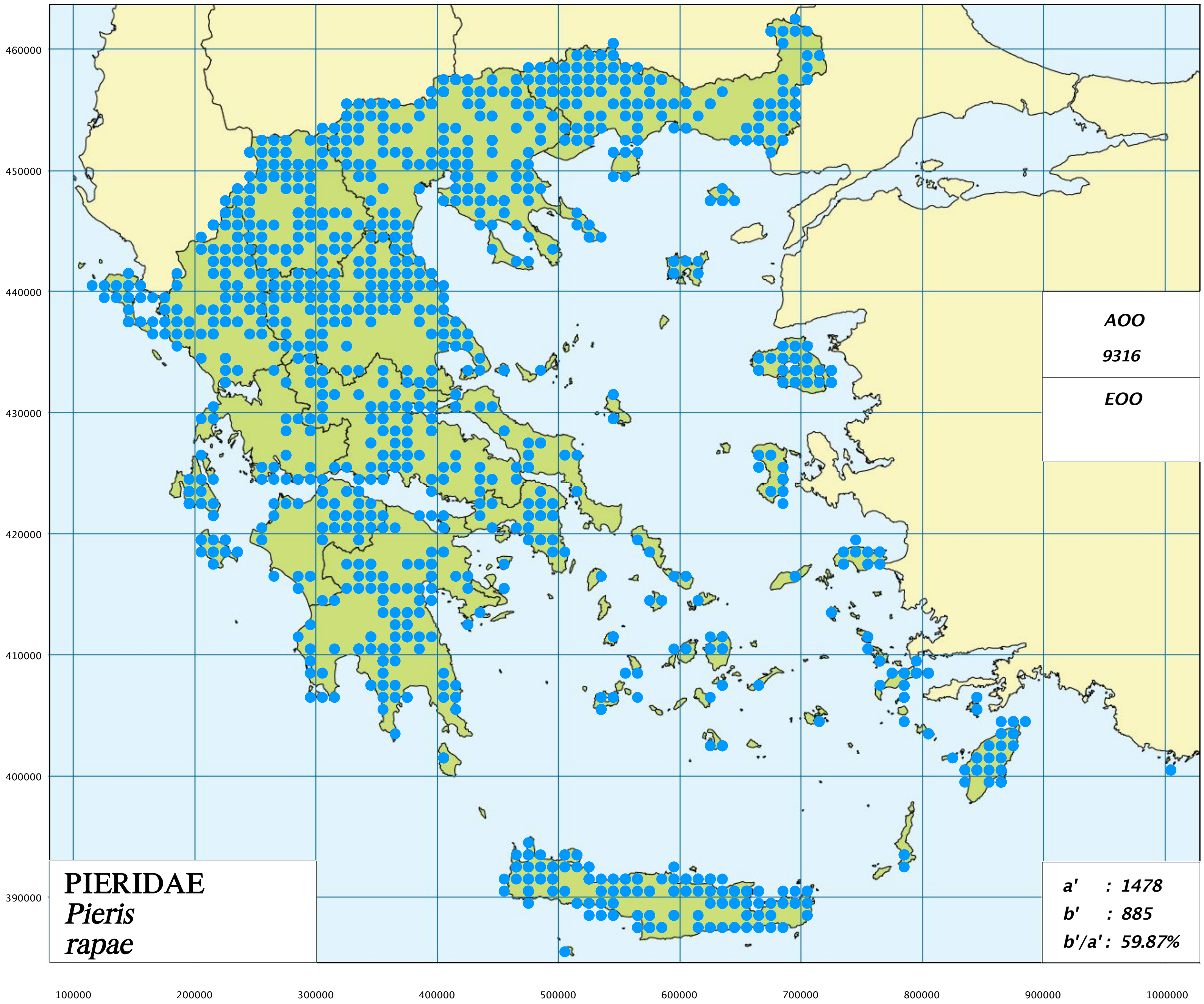

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1412
EOO
?
?
?
a' : 1478
b' : 151
b'/a' : 10.21%
PAPILIONIDAE
Parnassius mnemosyne

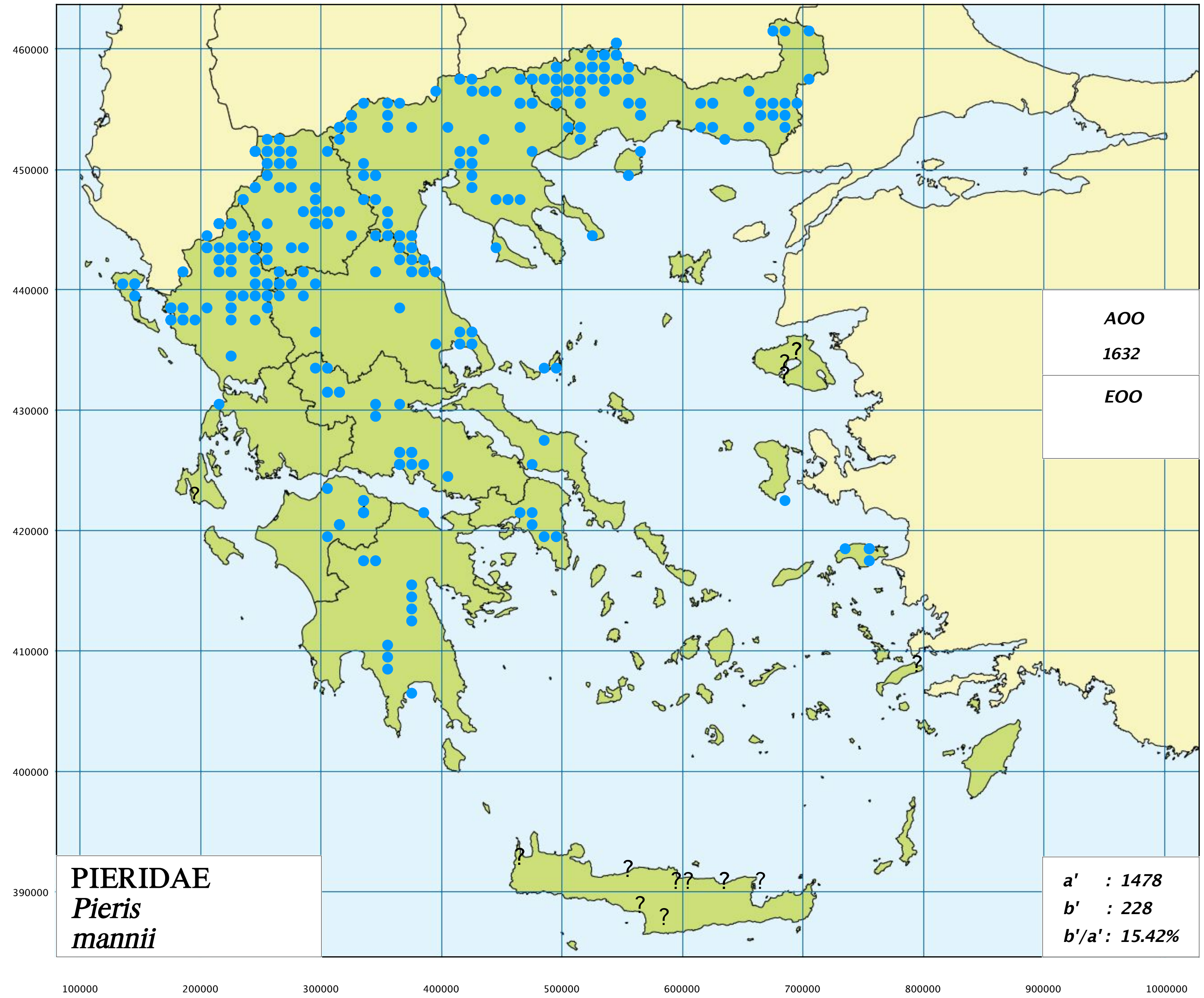


PIERIDAE
Aporia crataegi
AOO
4208
EOO
a' : 1478
b' : 426
b'/a' : 28.82%
?
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

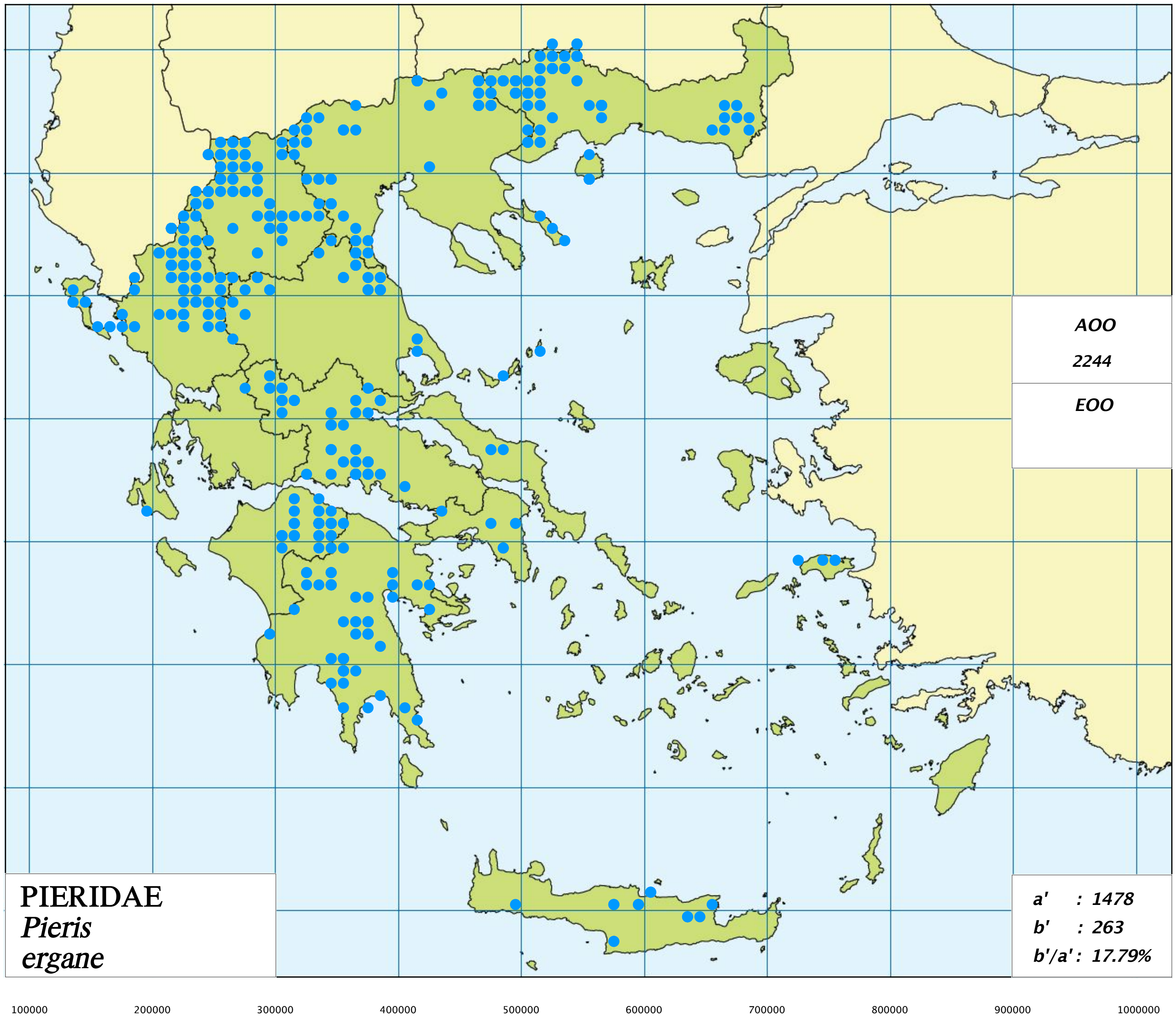


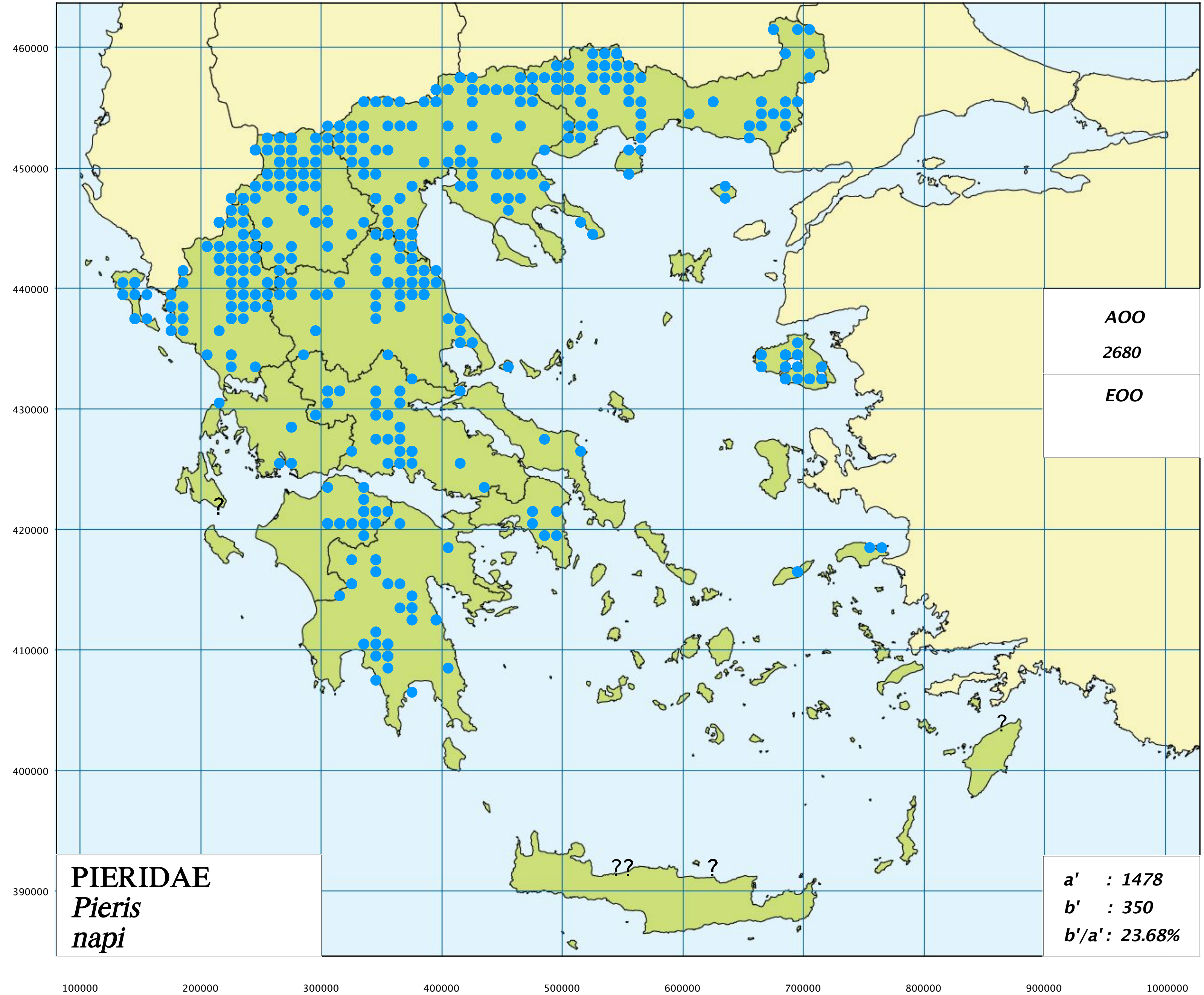
PIERIDAE
Pieris
brassicae
AOO
8328
EOO
a' : 1478
b' : 803
b'/a' : 54.33%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
9316
EOO
PIERIDAE
Pieris
rapae
a' : 1478
b' : 885
b'/a' : 59.87%



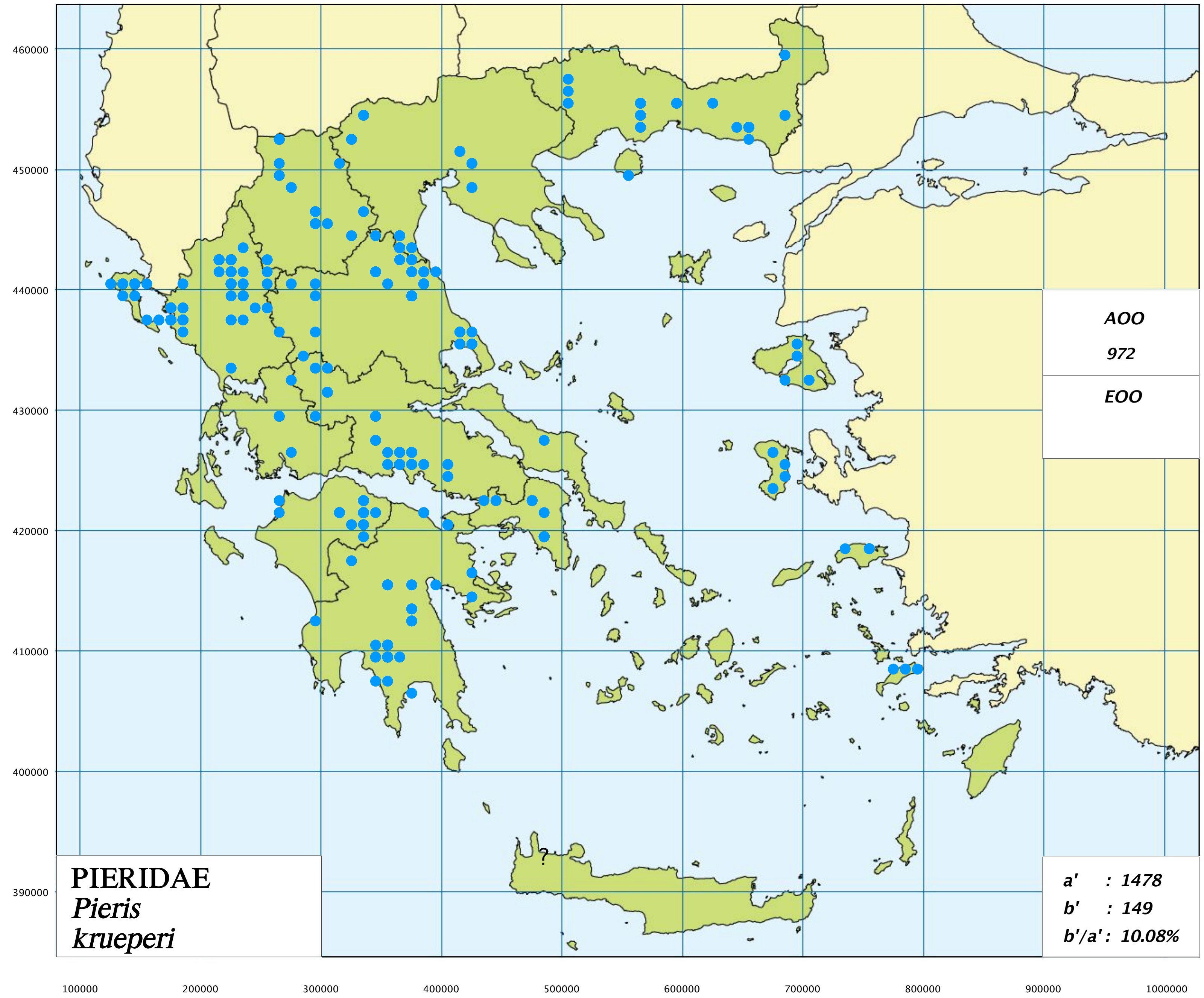
AOO
1632
EOO
PIERIDAE
Pieris mannii
a' : 1478
b' : 228
b'/a' : 15.42%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2244
EOO
PIERIDAE
Pieris
ergane
a' : 1478
b' : 263
b'/a' : 17.79%

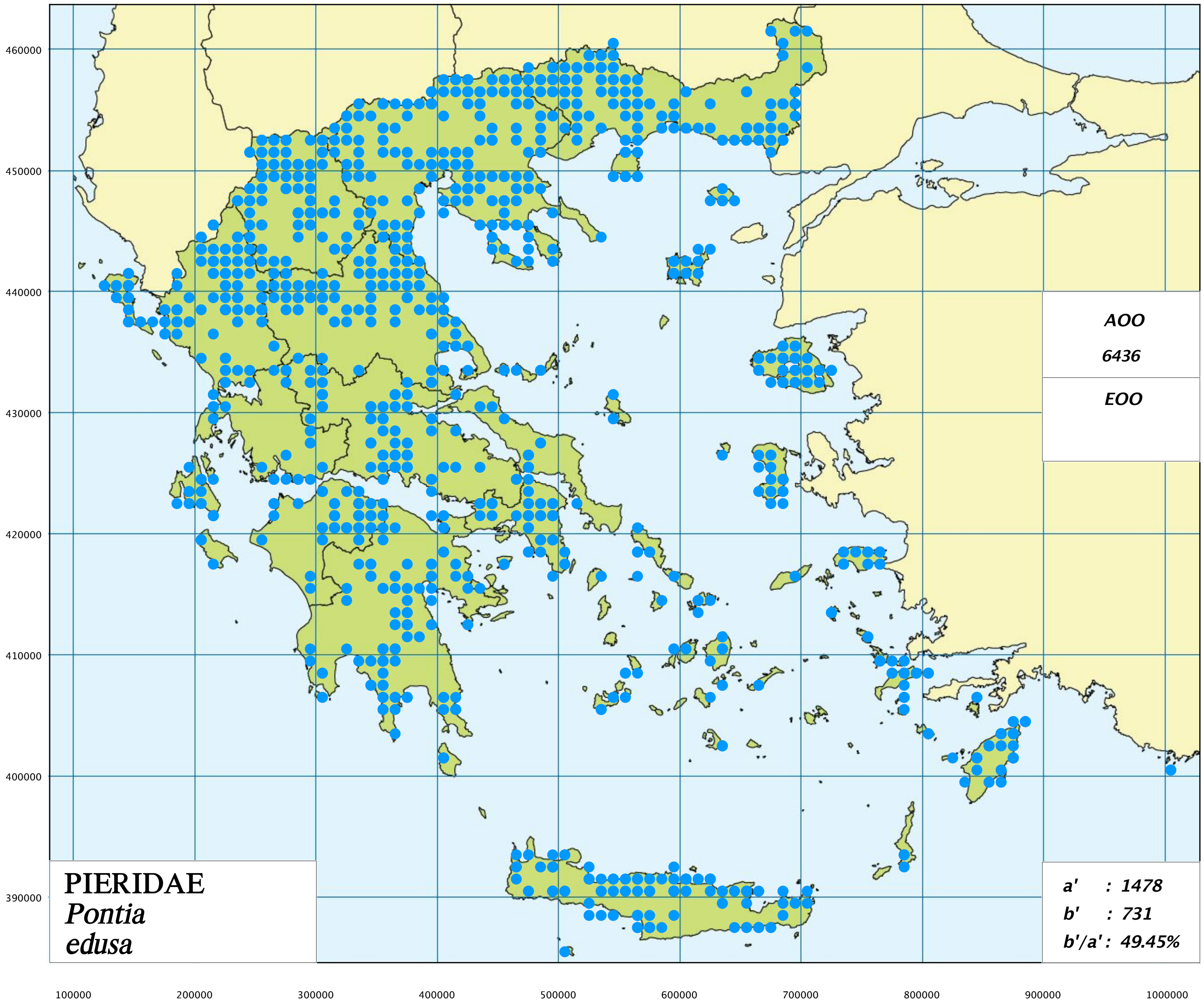


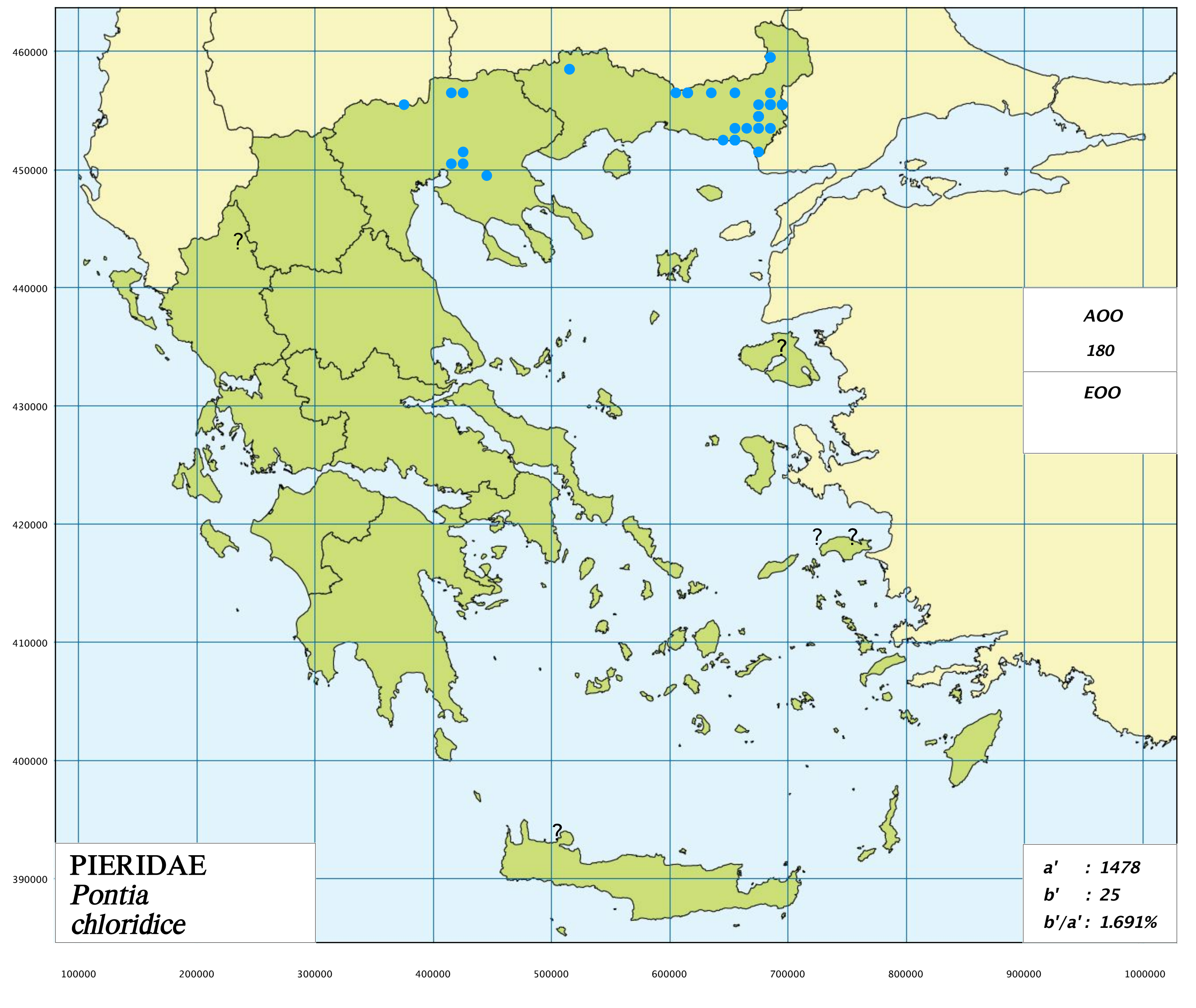
Αμφίβολη αναγνώριση / Identification uncertain

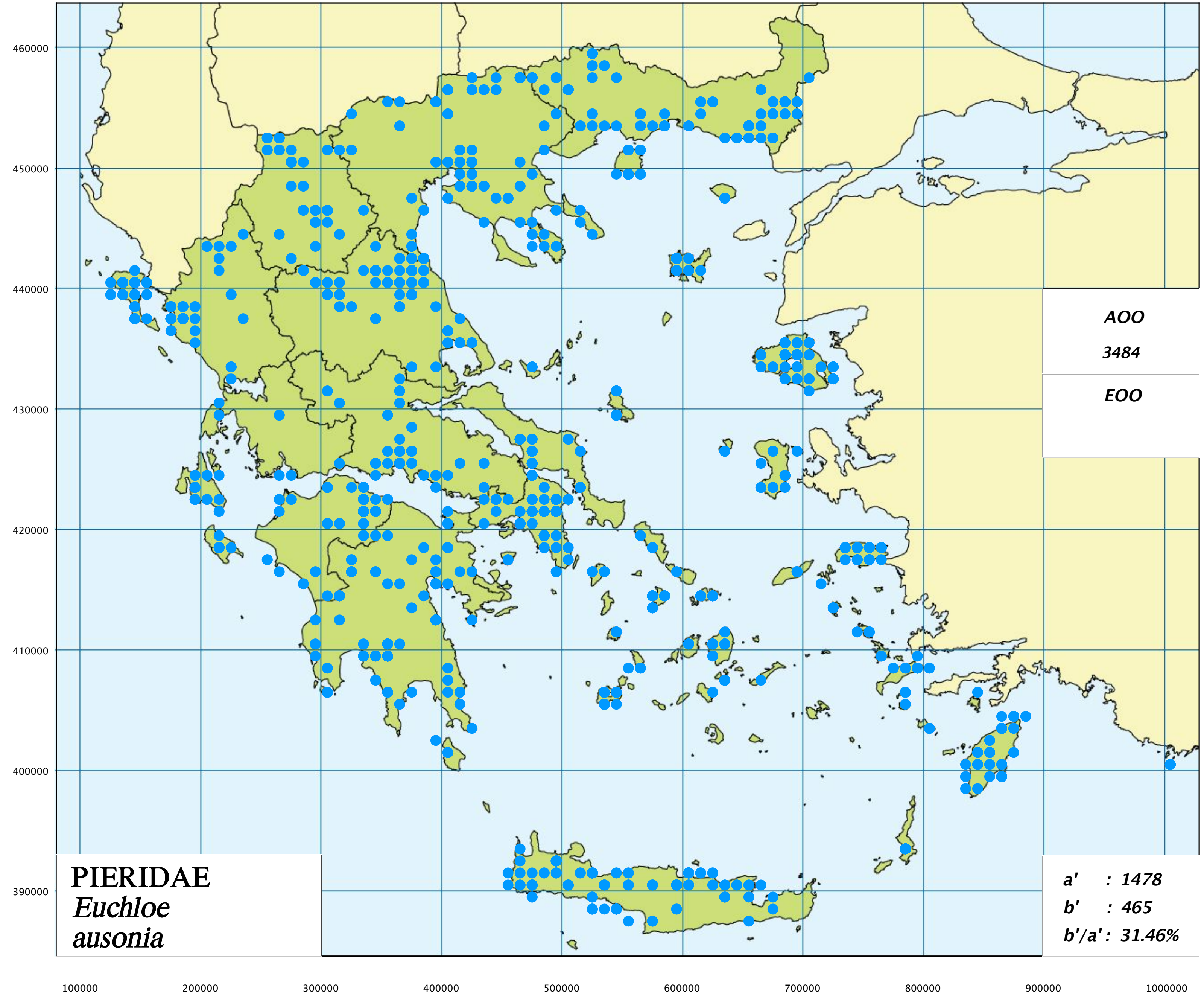
Αμφίβολη αναγνώριση / Identification uncertain



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
972
EOO
?
PIERIDAE
Pieris krueperi
a' : 1478
b' : 149
b'/a' : 10.08%

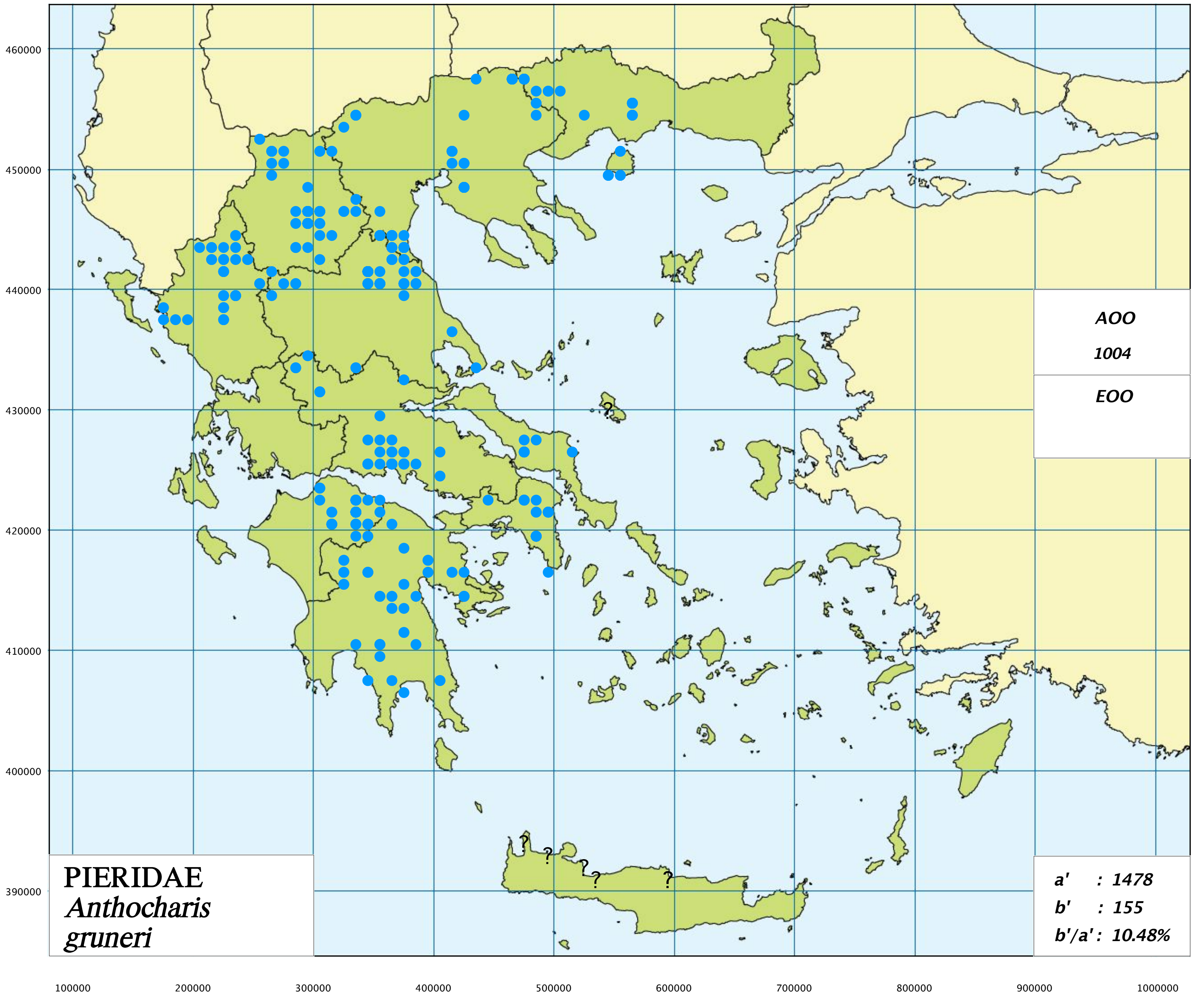

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
6436
EOO
PIERIDAE
Pontia
edusa
a' : 1478
b' : 731
b'/a' : 49.45%

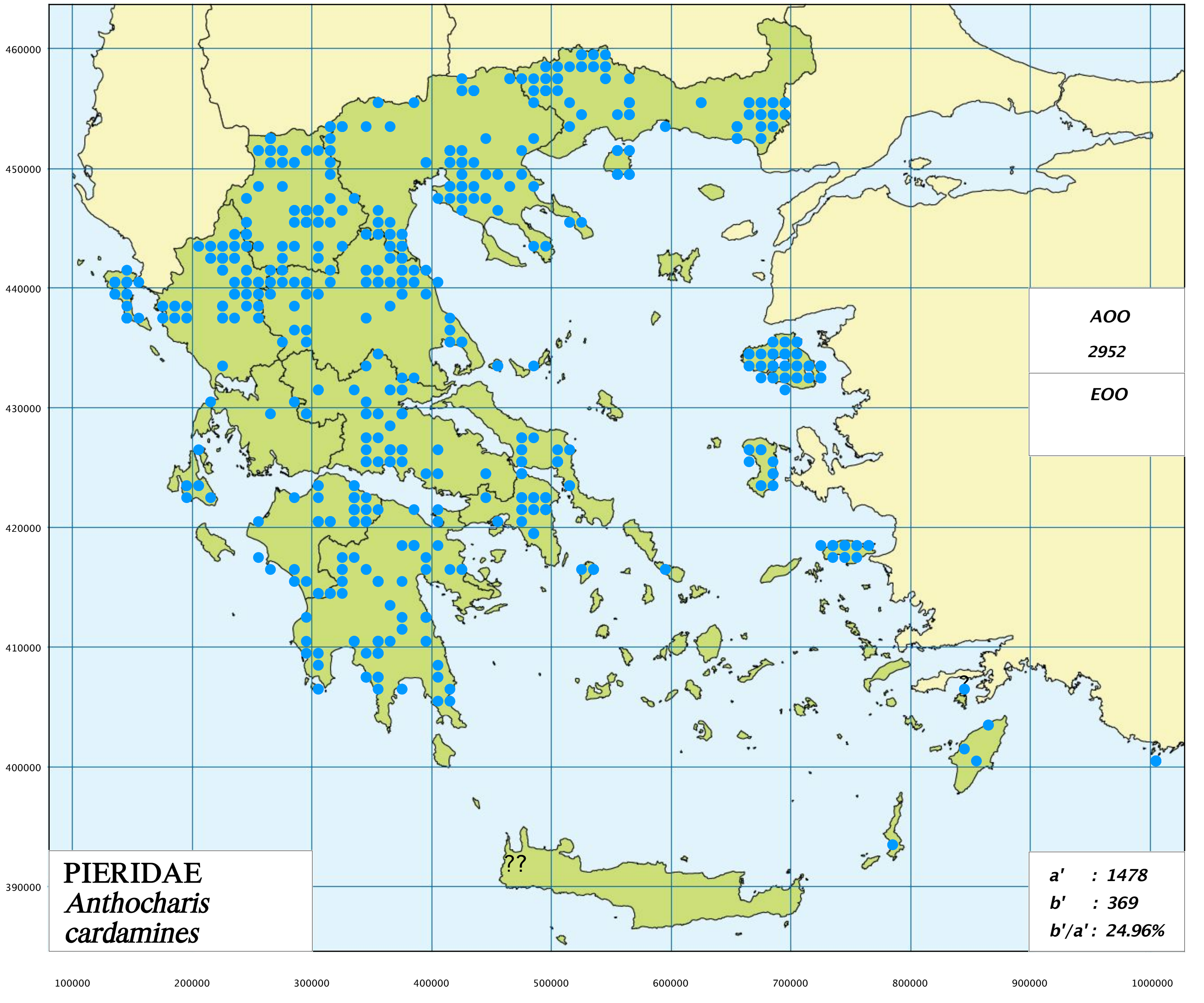

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
? ?
?
AOO
180
EOO
PIERIDAE
Pontia chloridice
a' : 1478
b' : 25
b'/a' : 1.691%



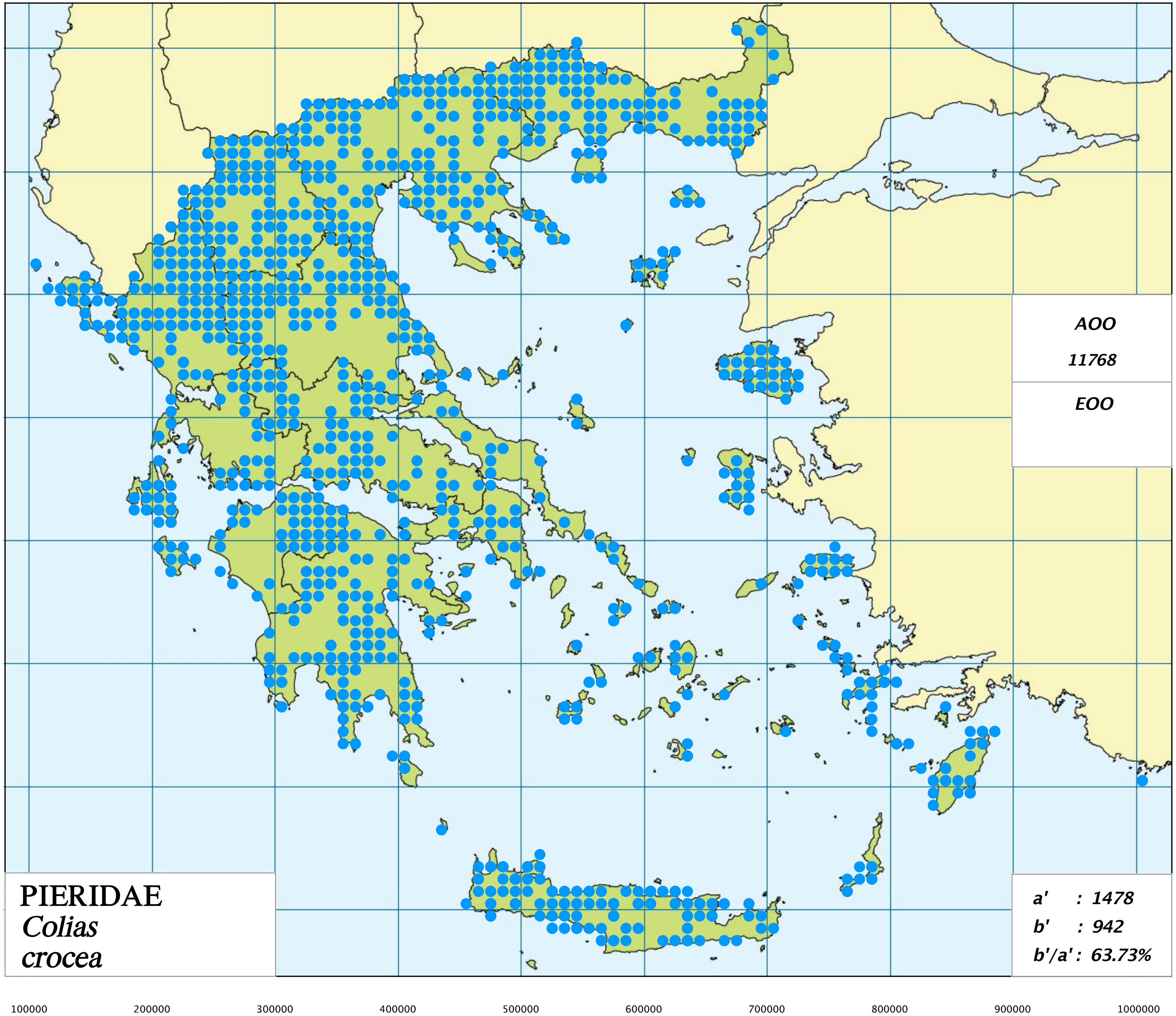
PIERIDAE
Euchloe
ausonia
AOO
3484
EOO
a' : 1478
b' : 465
b'/a' : 31.46%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
320
EOO
PIERIDAE
Euchloe
penia
a' : 1478
b' : 45
b'/a' : 3.044%

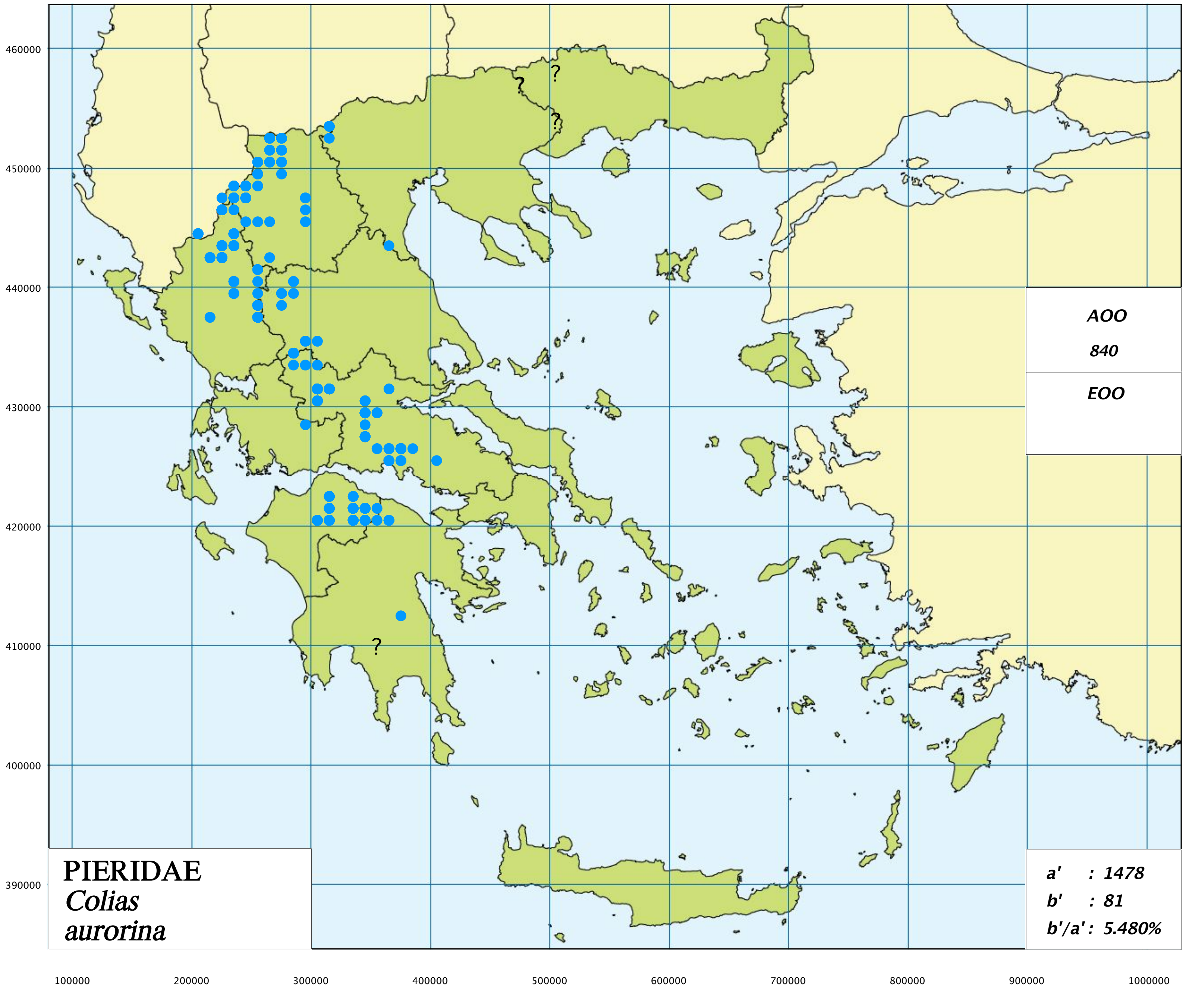

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1004
EOO
PIERIDAE
Anthocharis gruneri
a' : 1478
b' : 155
b'/a' : 10.48%

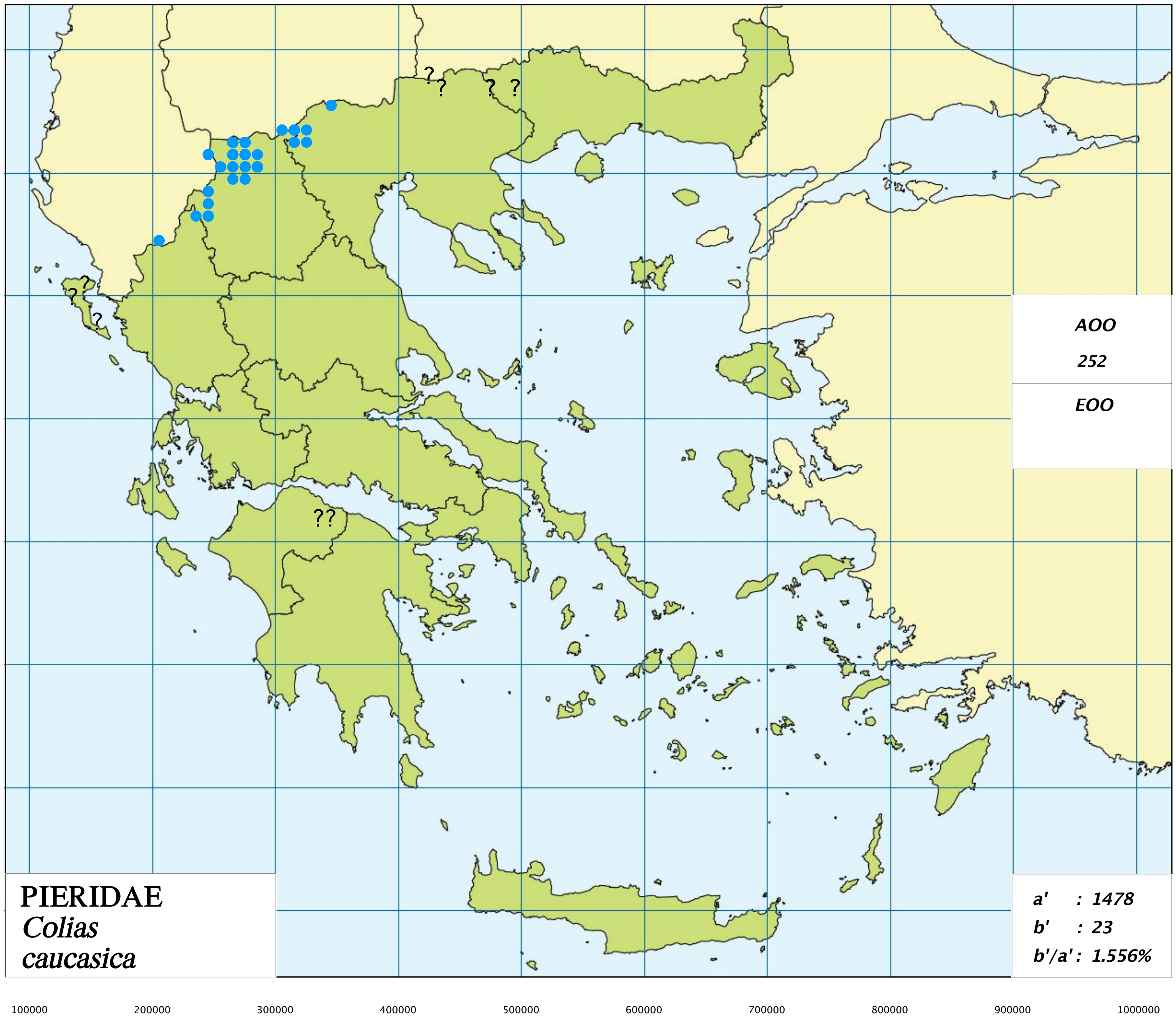

PIERIDAE
Anthocharis cardamines
AOO
2952
EOO
a' : 1478
b' : 369
b'/a' : 24.96%
??
?
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
284
EOO
PIERIDAE
Anthocharis damone
a' : 1478
b' : 49
b'/a' : 3.315%

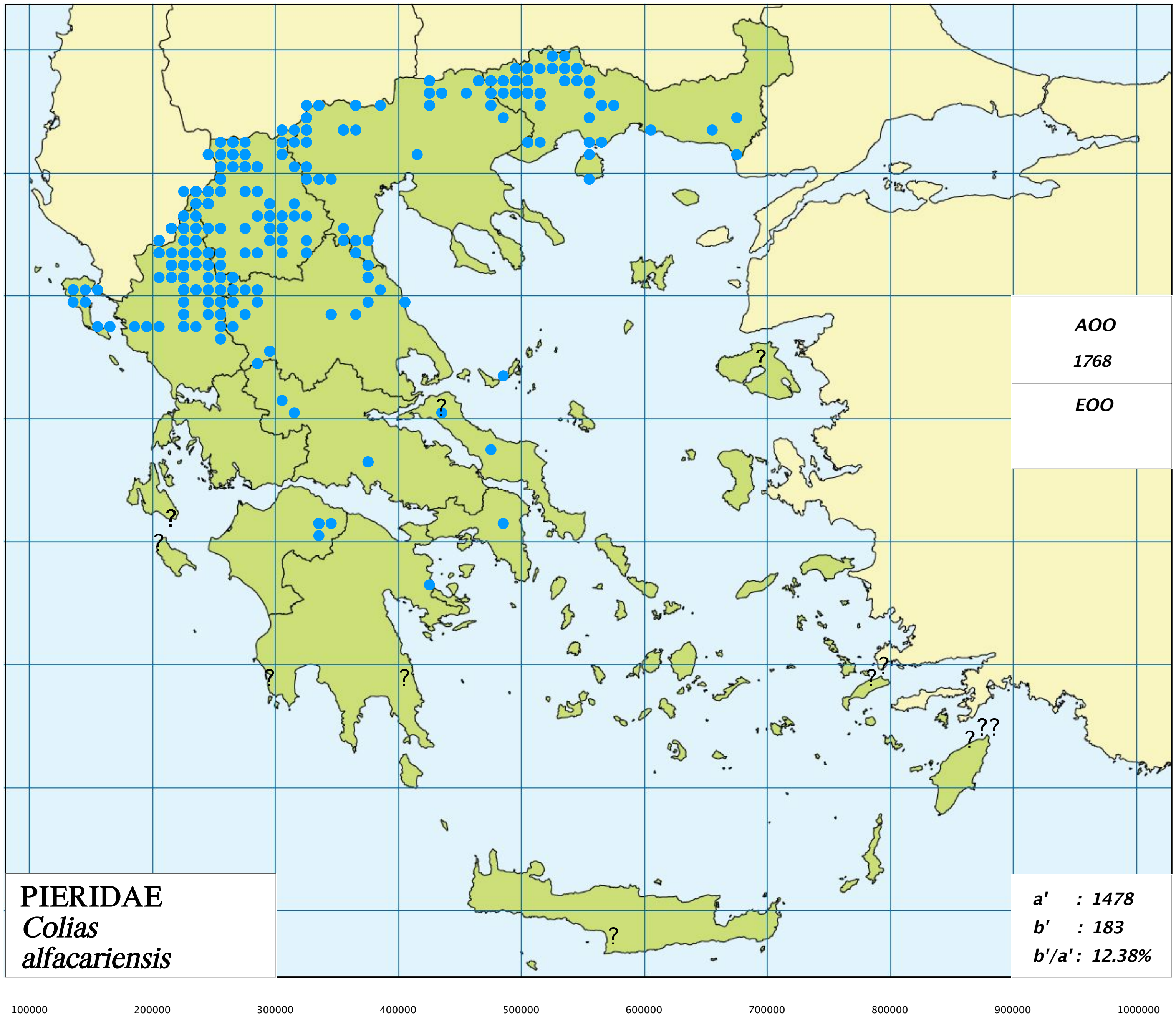


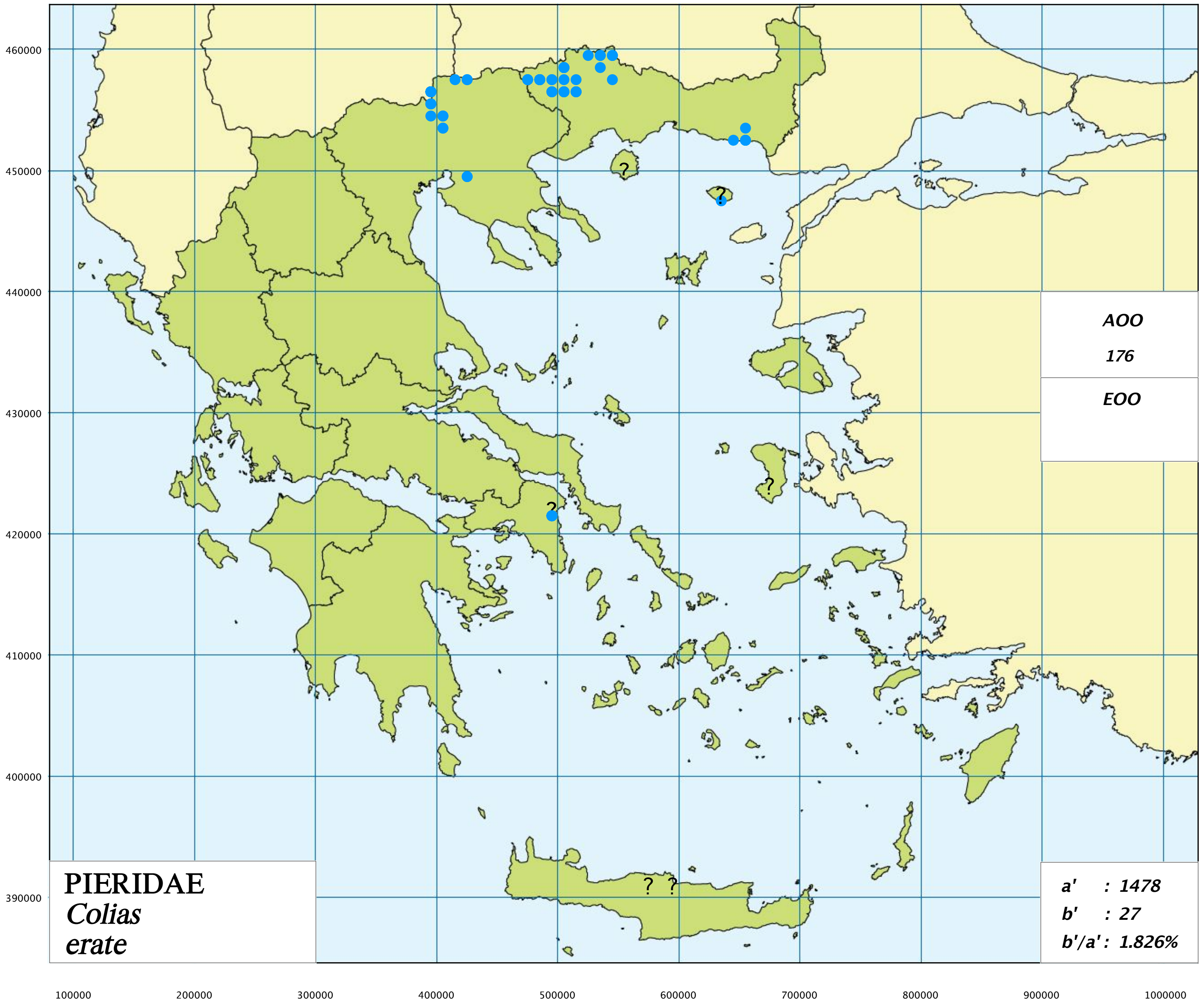
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
11768
EOO
a' : 1478
b' : 942
b'/a' : 63.73%
PIERIDAE
Colias
crocea


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
840
EOO
PIERIDAE
Colias aurorina
a' : 1478
b' : 81
b'/a' : 5.480%

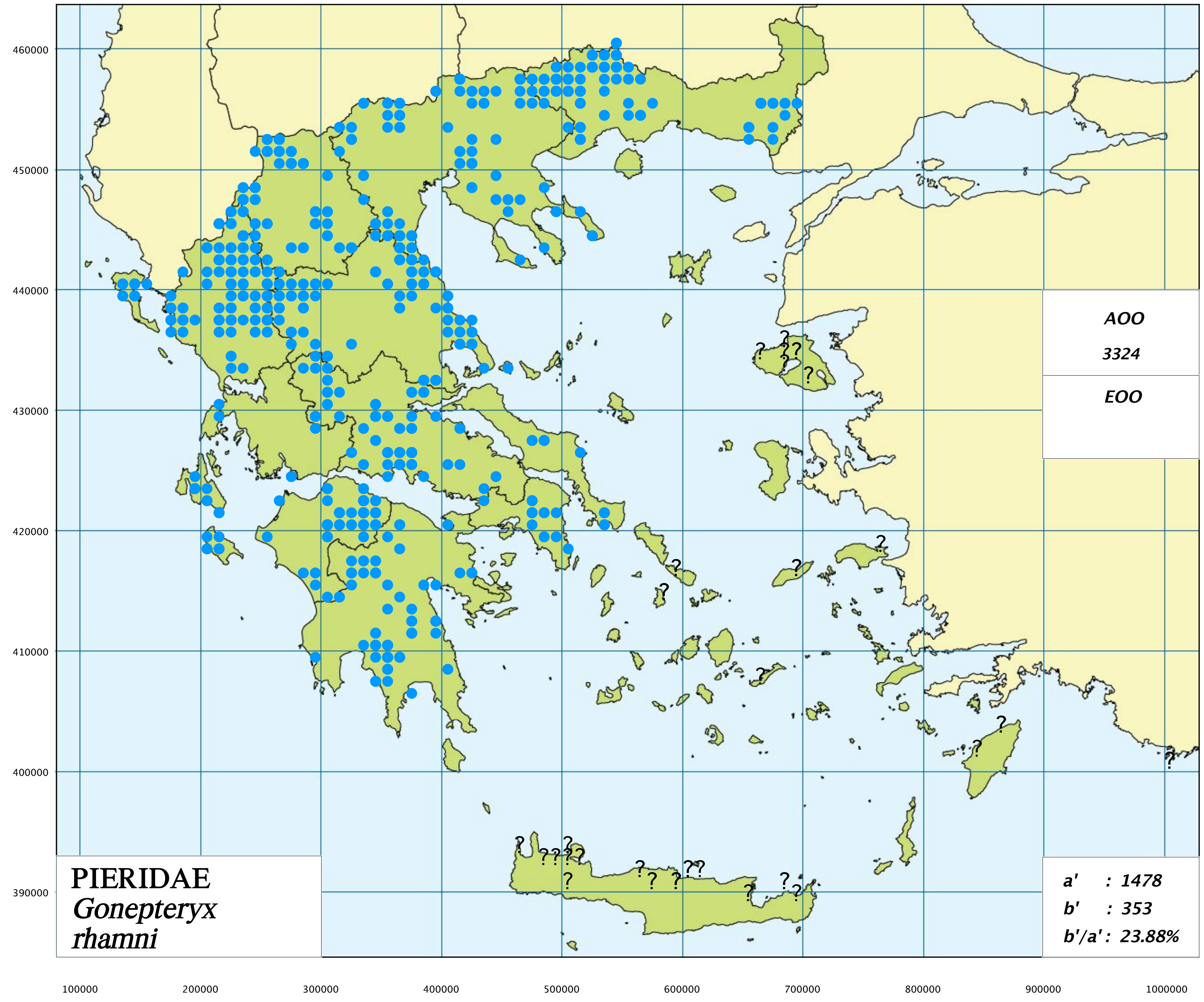


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
252
EOO
a' : 1478
b' : 23
b'/a' : 1.556%
PIERIDAE
Colias caucasica

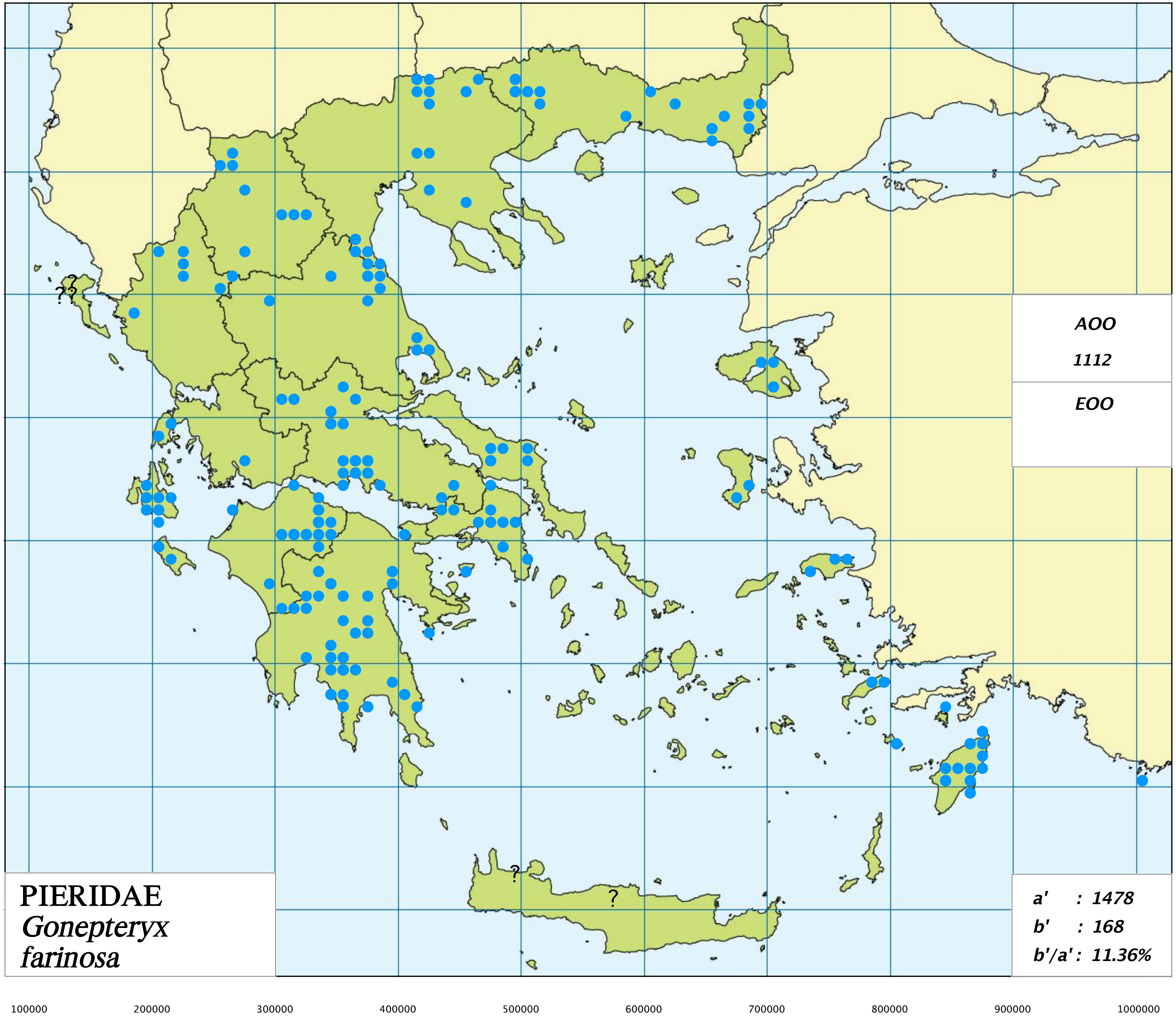

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1768
EOO
PIERIDAE
Colias
alfacariensis
a' : 1478
b' : 183
b'/a' : 12.38%



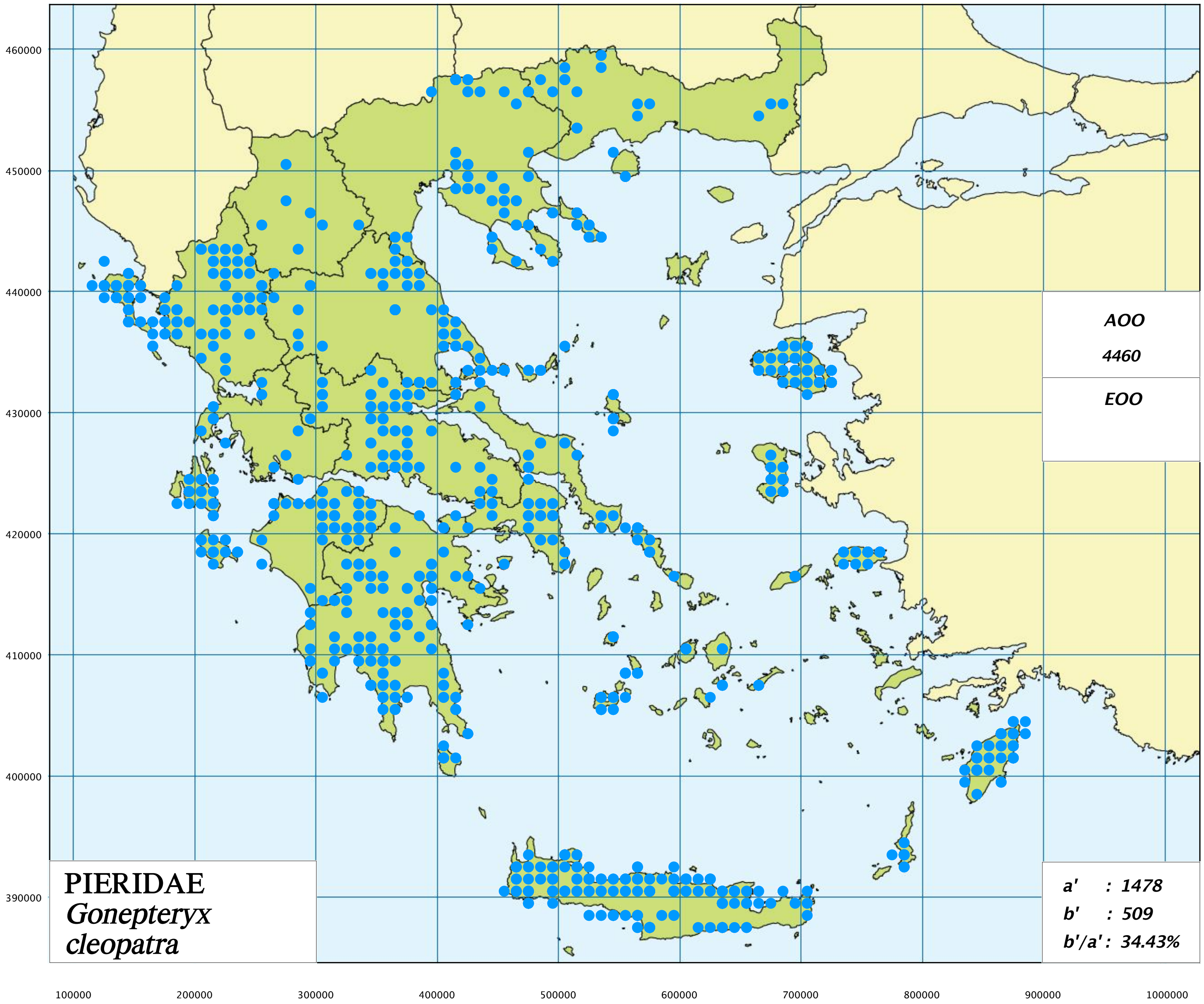
Αμφίβολη αναγνώριση / Identification uncertain



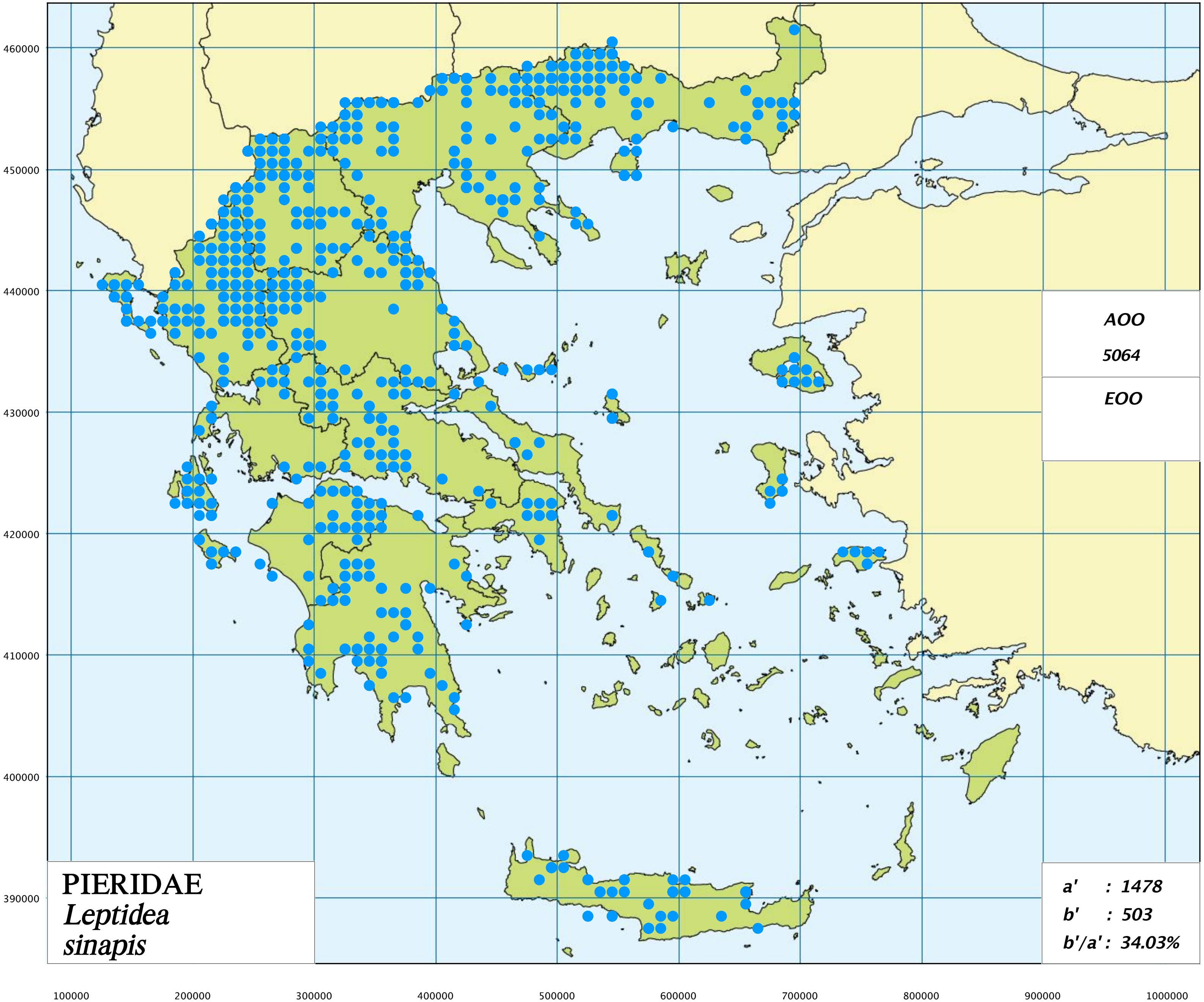
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3324
EOO
a' : 1478
b' : 353
b'/a' : 23.88%
PIERIDAE
Gonepteryx rhamni



PIERIDAE
Gonepteryx farinosa



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4460
EOO
PIERIDAE
Gonepteryx
cleopatra
a' : 1478
b' : 509
b'/a' : 34.43%

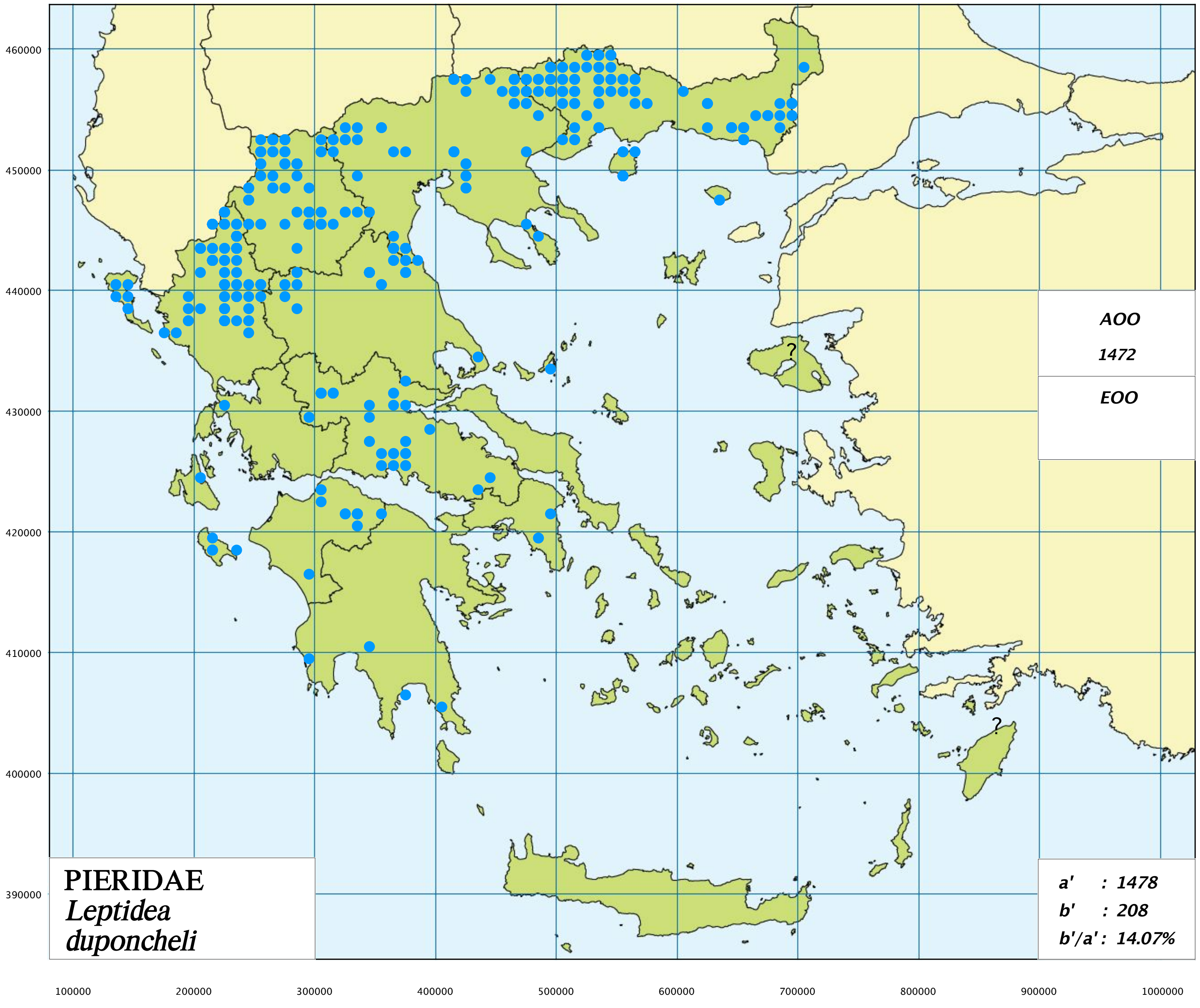


Αμφίβολη αναγνώριση / Identification uncertain

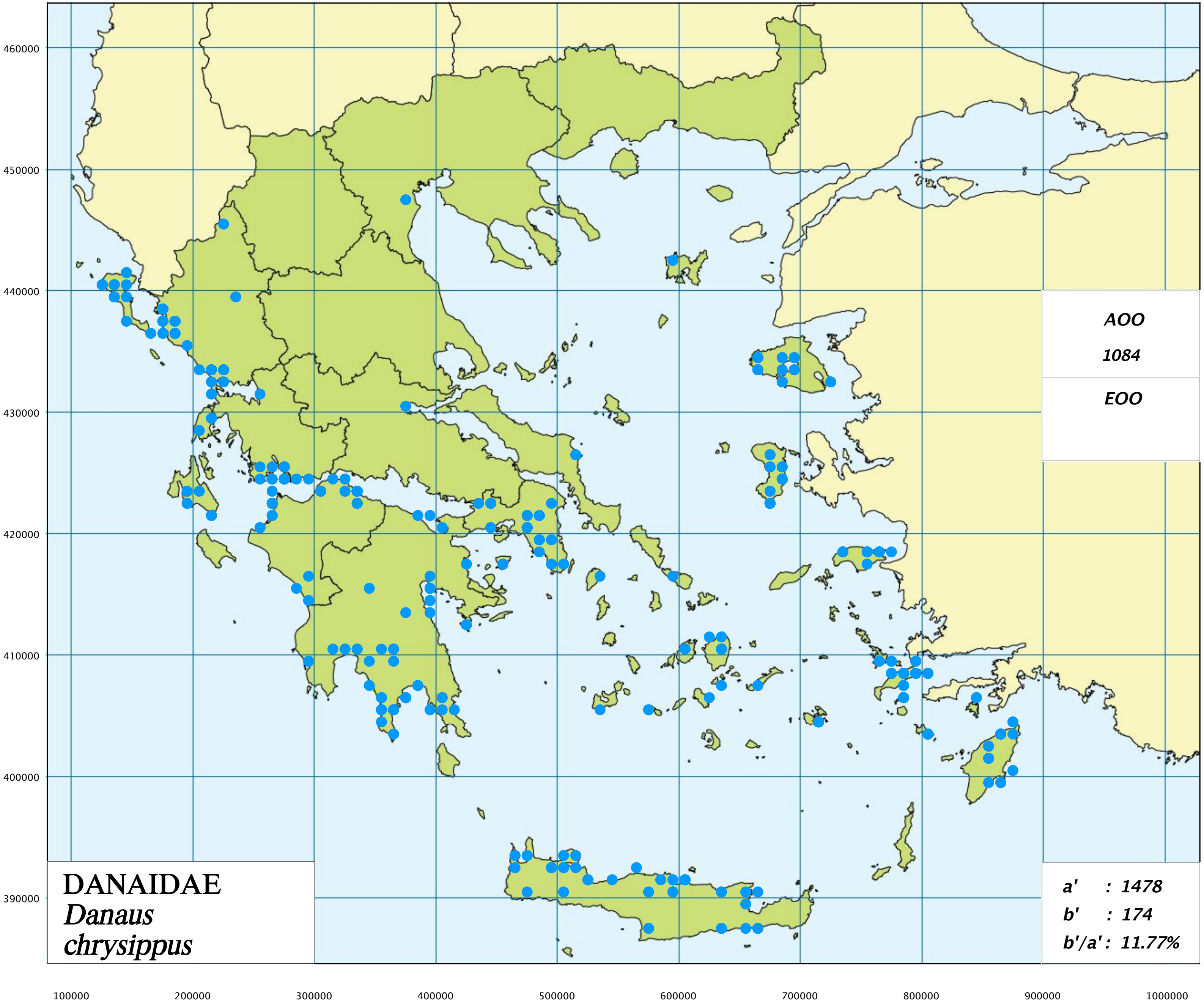
The name *Leptidea juvernica* is used now instead of *Leptidea reali*

Το όνομα *Leptidea juvernica* χρησιμοποιείται τώρα αντί του *Leptidea reali*

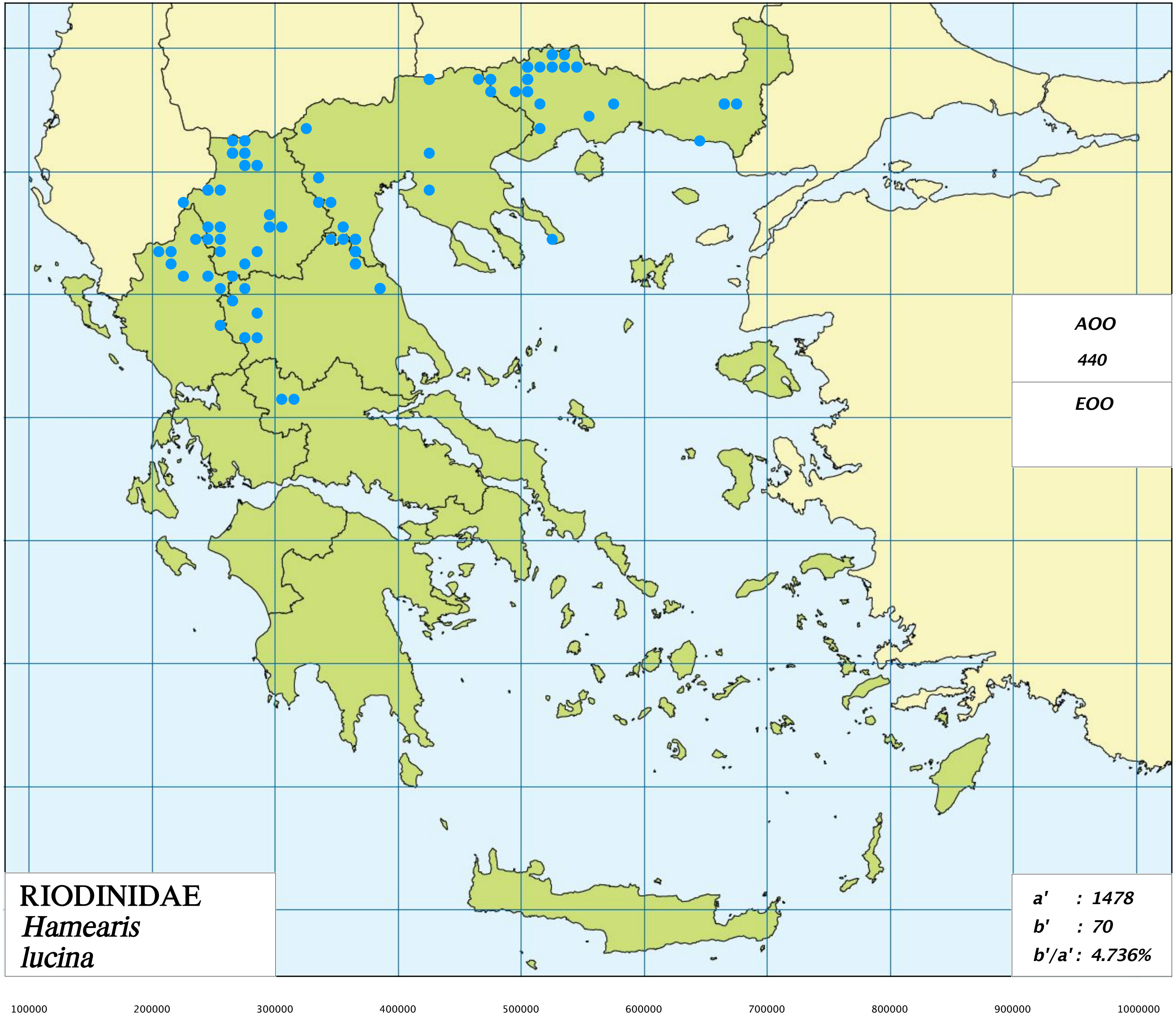
Αμφίβολη αναγνώριση / Identification uncertain



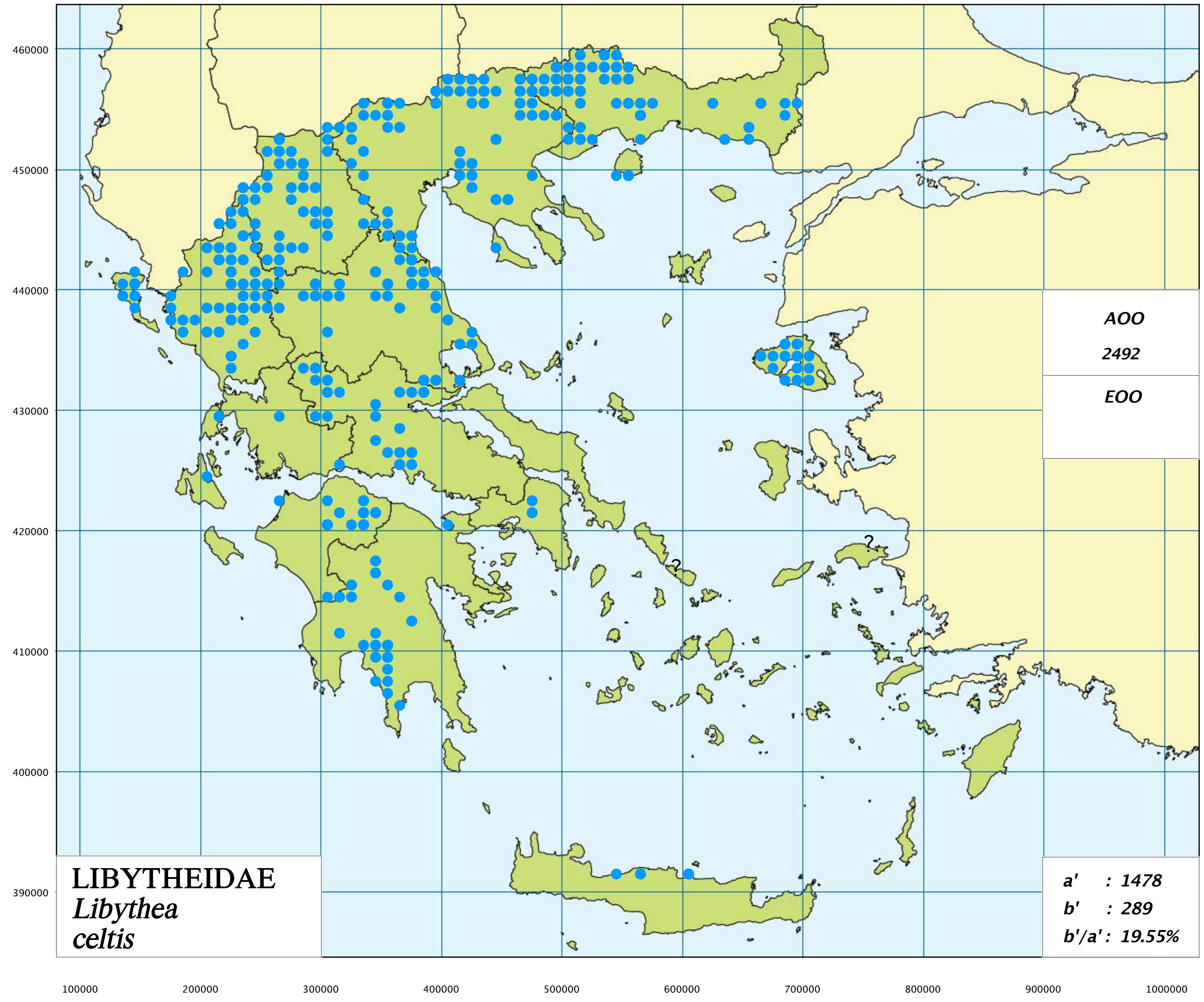
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
1472
EOO
PIERIDAE
Leptidea duponcheli
a' : 1478
b' : 208
b'/a' : 14.07%



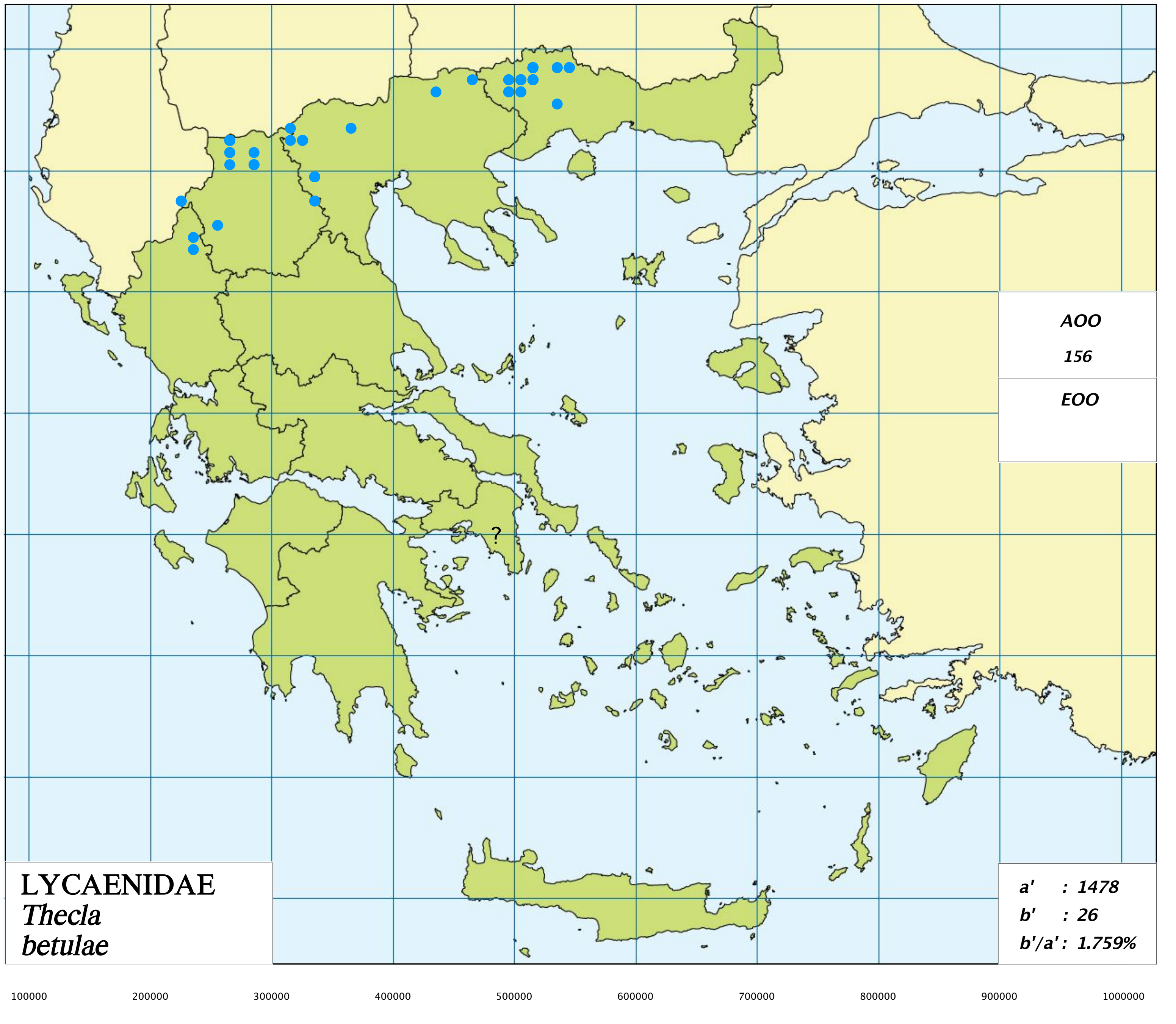
DANAIDAE
Danaus chrysippus



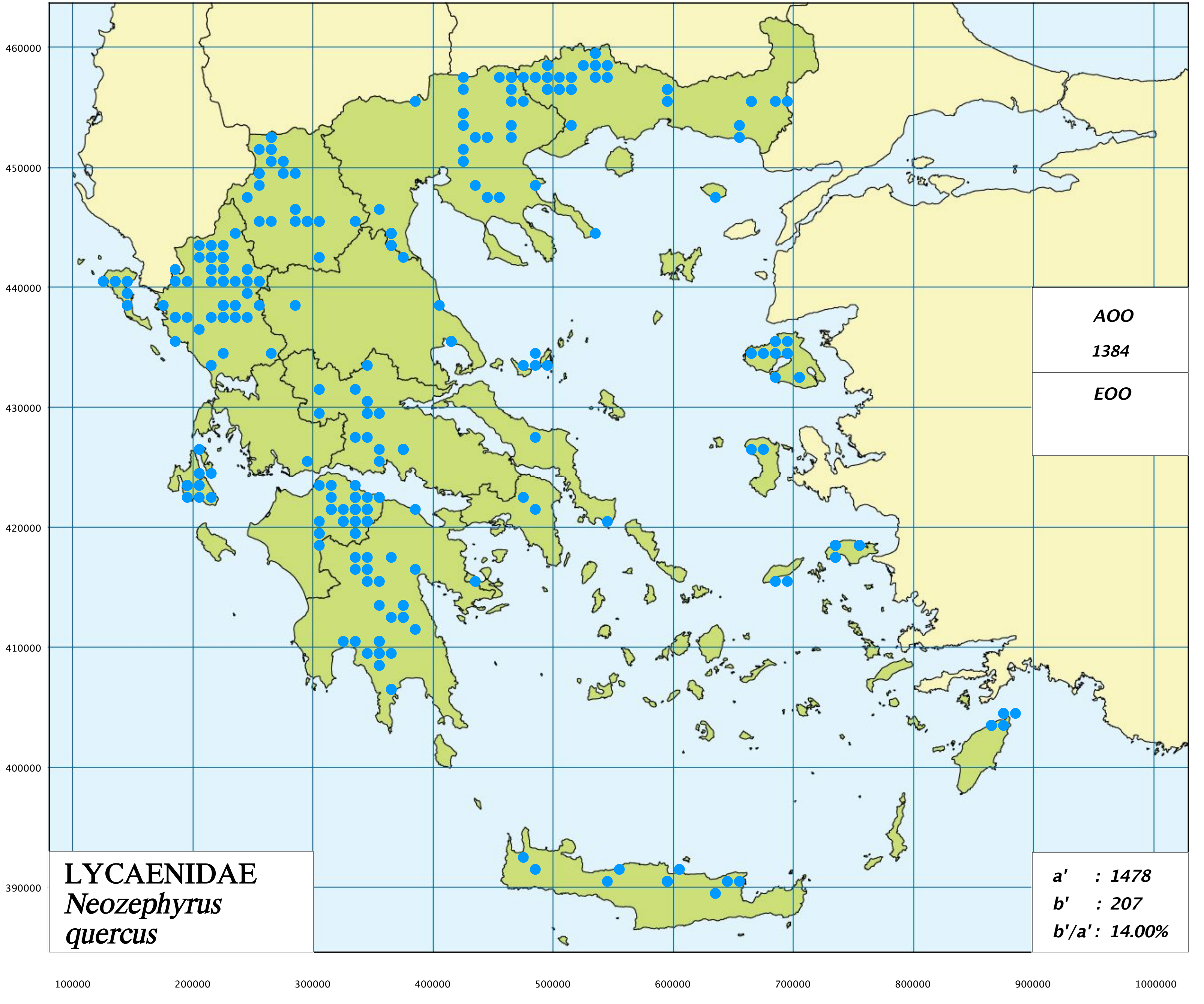
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
440
EOO
RIODINIDAE
Hamearis
lucina
a' : 1478
b' : 70
b'/a' : 4.736%



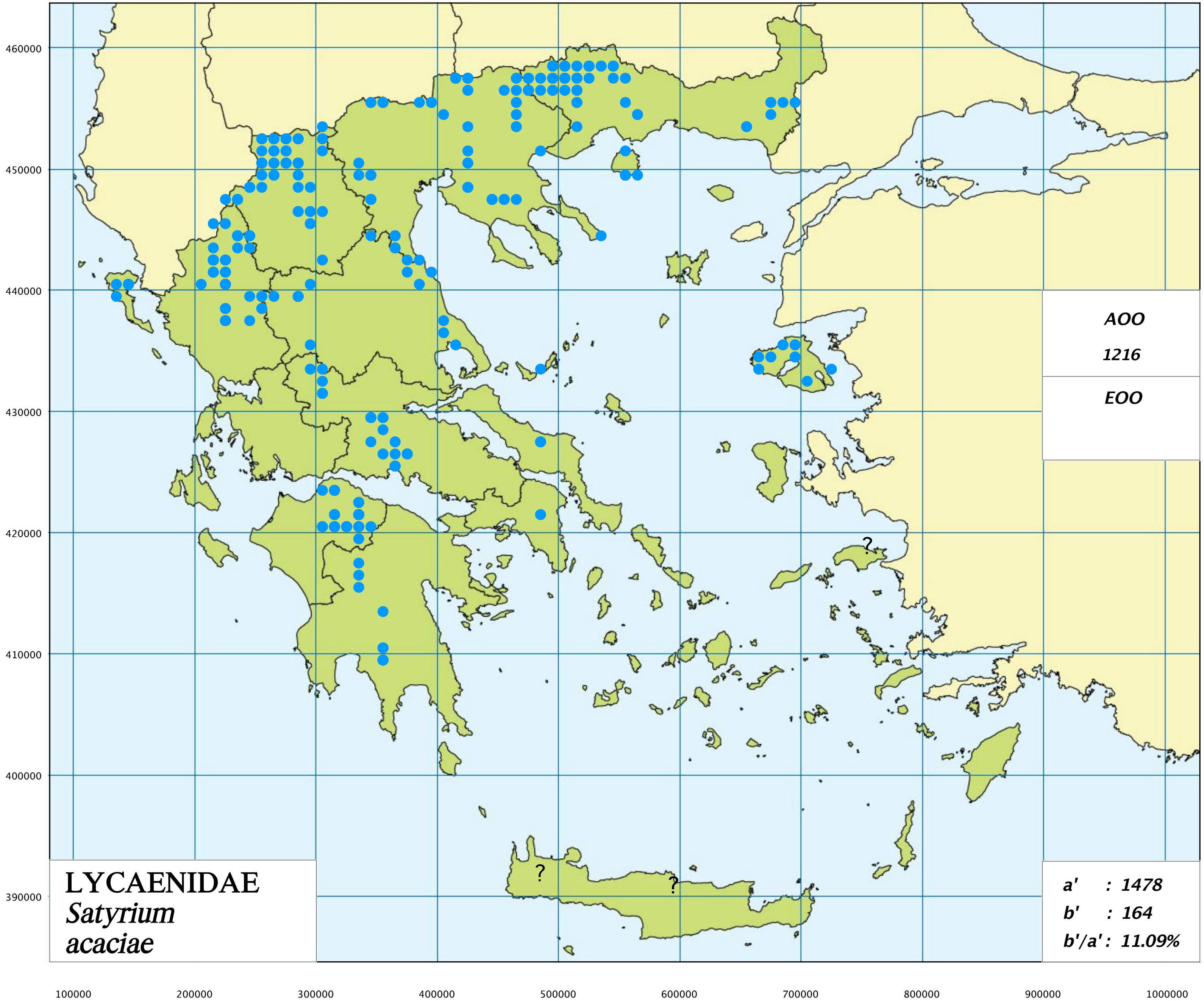
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
2492
EOO
LIBYTHEIDAE
Libythea
celtis
a' : 1478
b' : 289
b'/a' : 19.55%



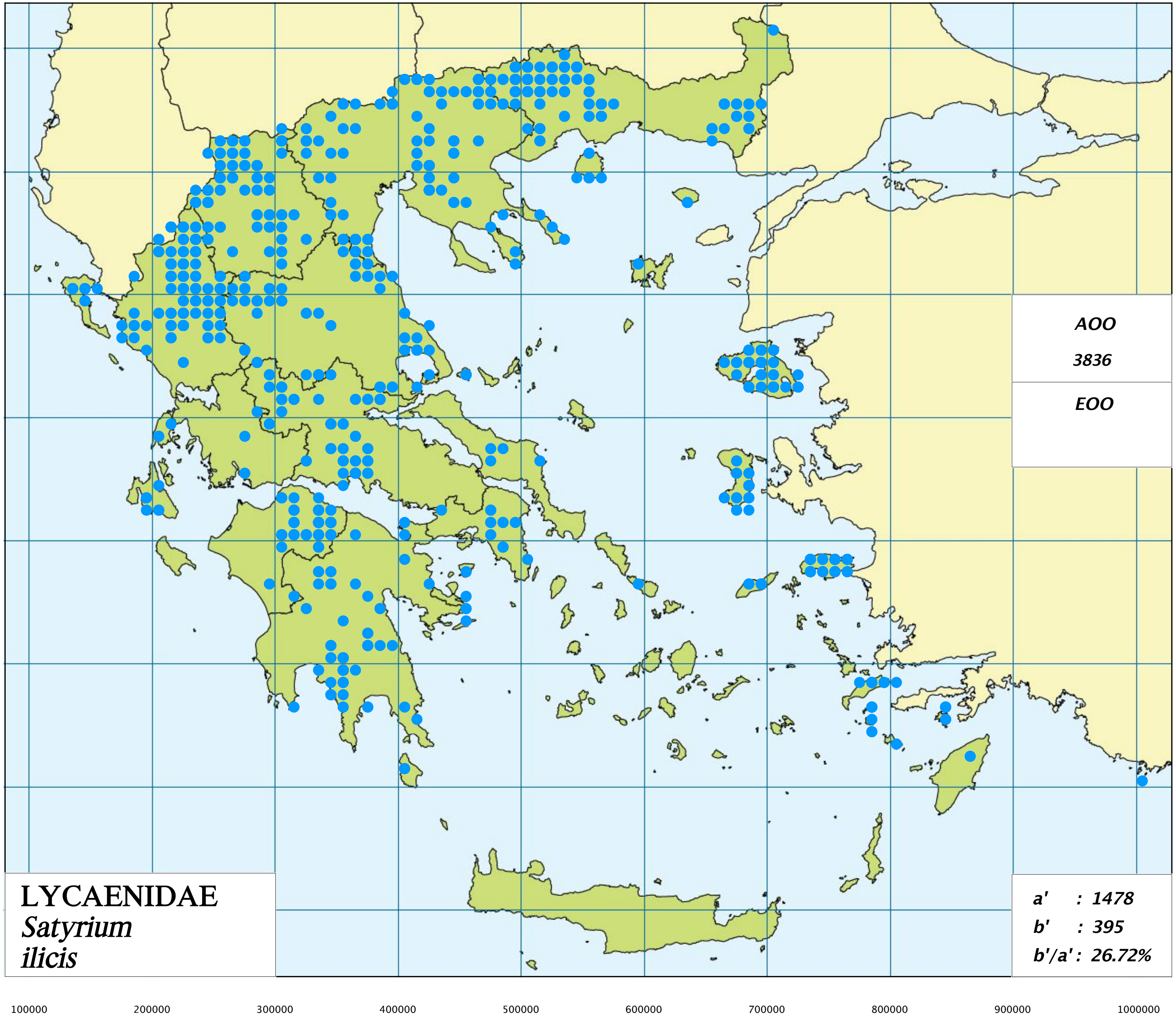
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
156
EOO
LYCAENIDAE
Thecla
betulae
a' : 1478
b' : 26
b'/a' : 1.759%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1384
EOO
LYCAENIDAE
Neozephyrus quercus
a' : 1478
b' : 207
b'/a' : 14.00%

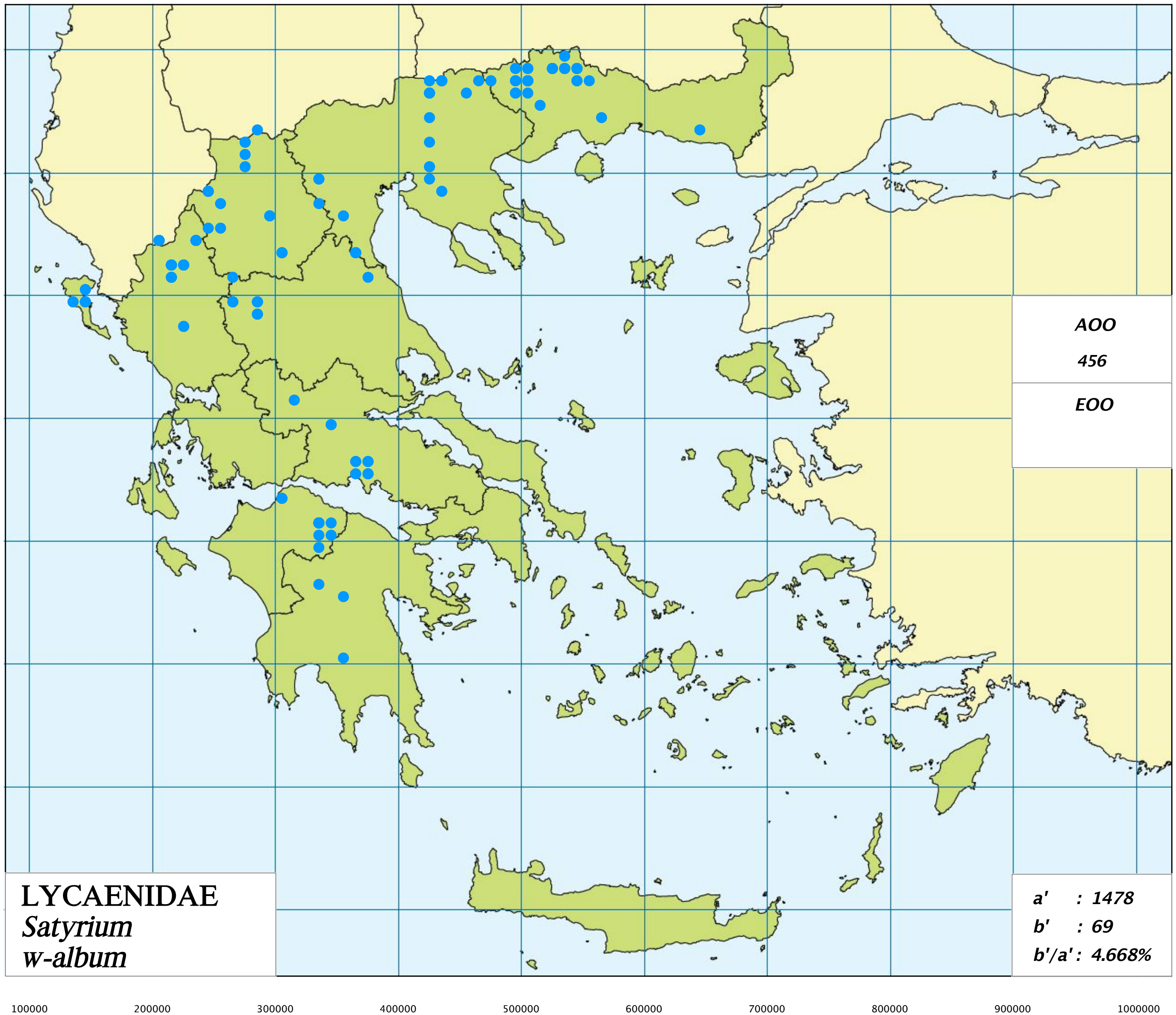
LYCAENIDAE
Satyrium ledereri

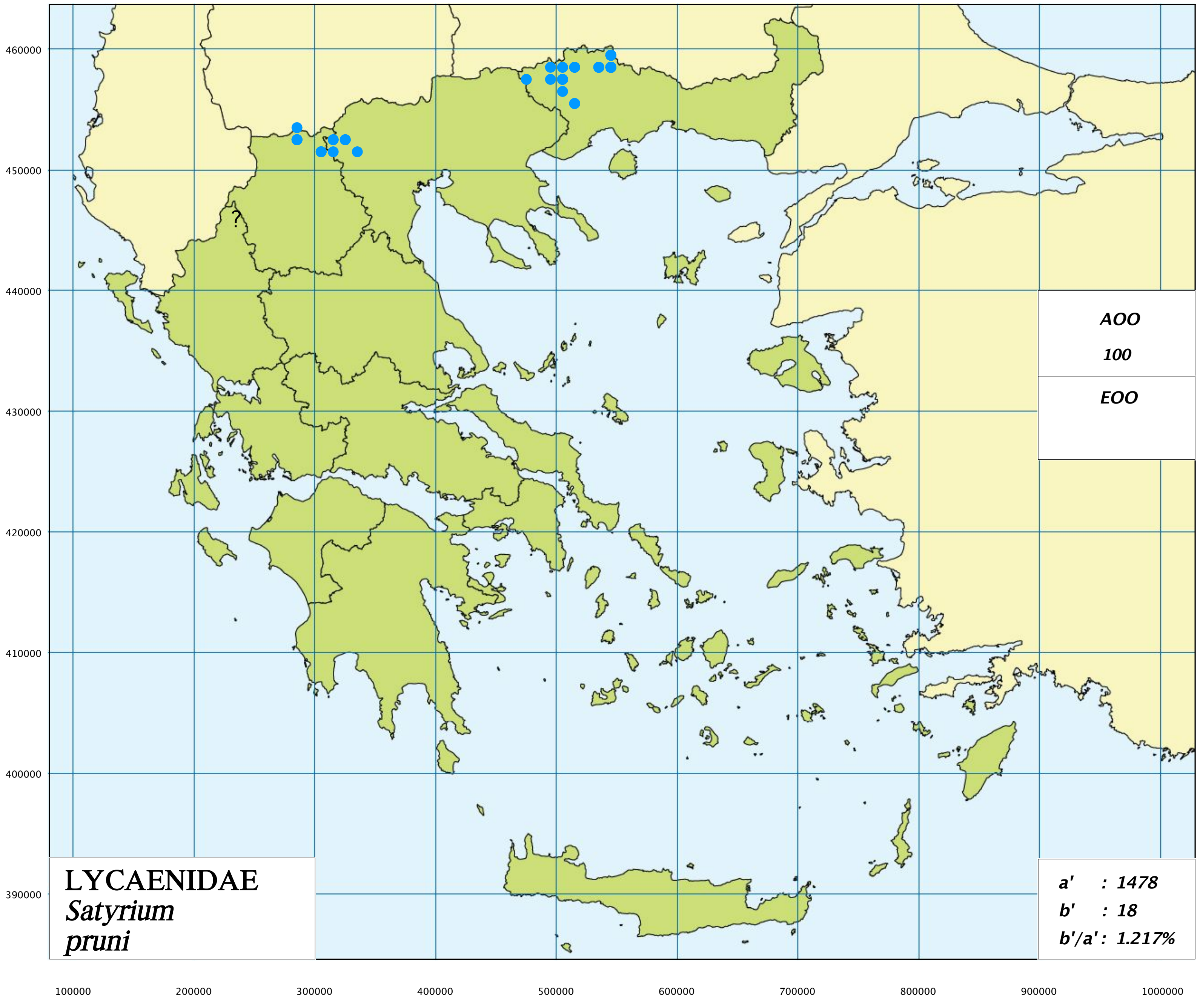


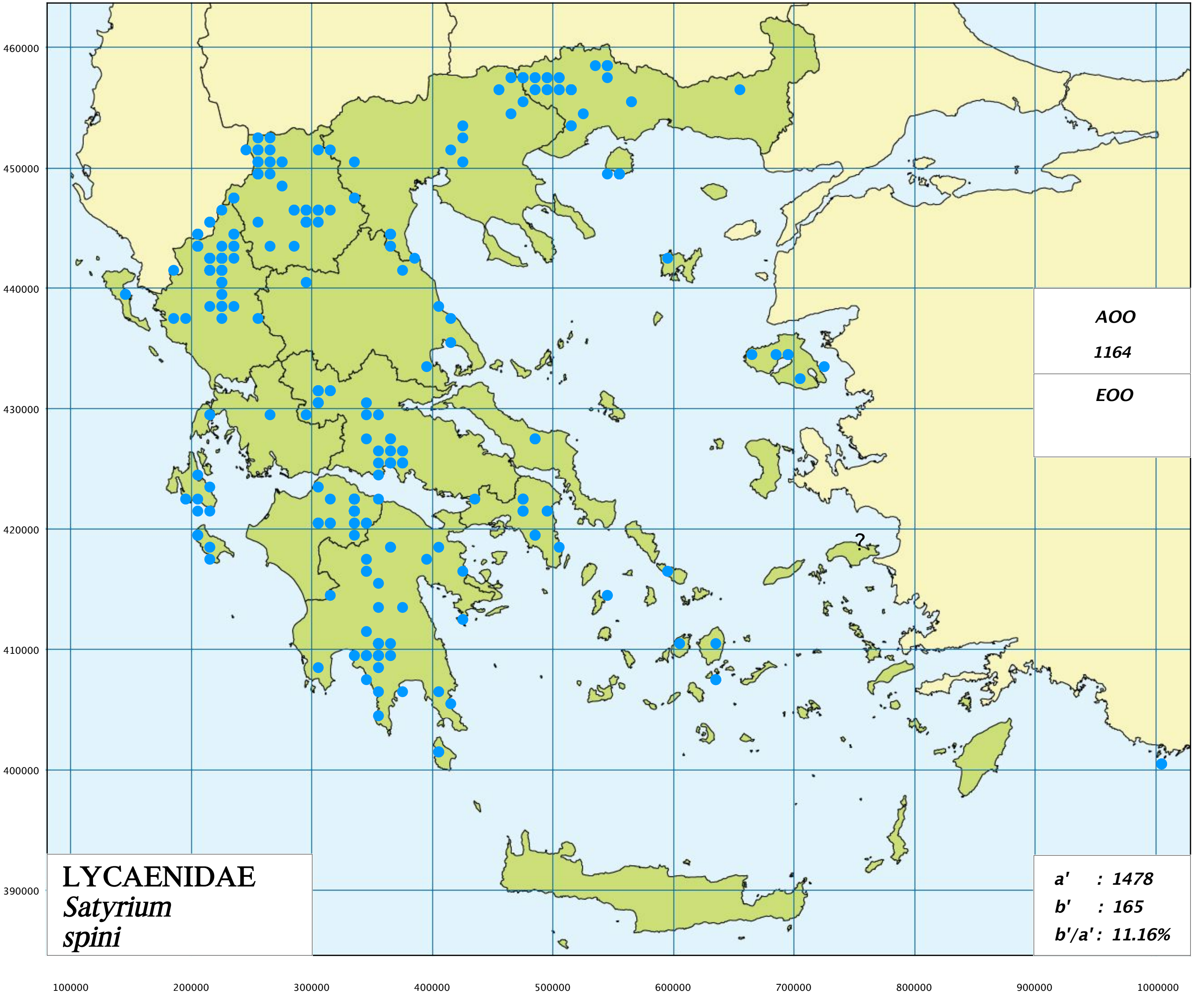
LYCAENIDAE
Satyrium acaciae

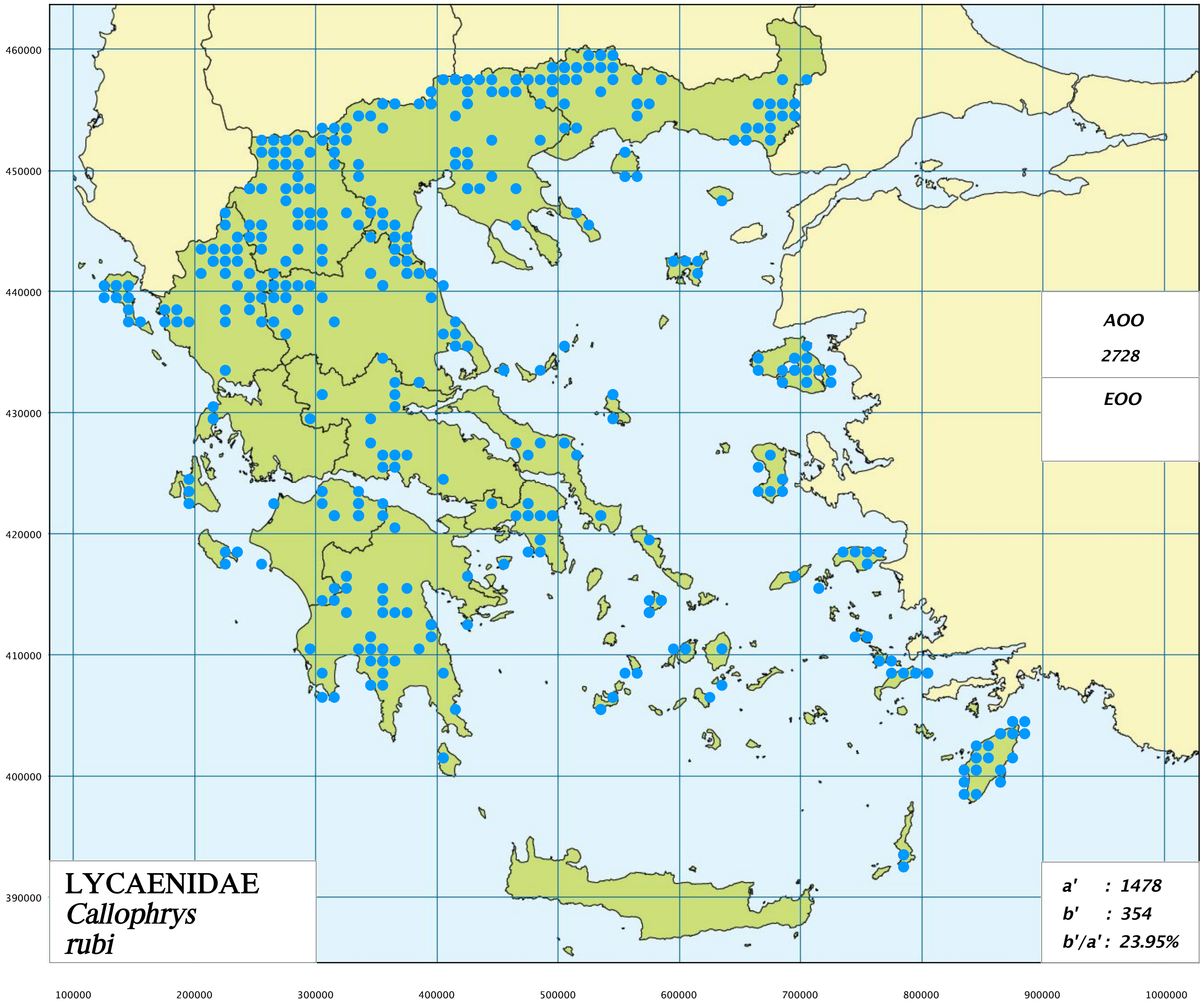


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3836
EOO
LYCAENIDAE
Satyrium ilicis
a' : 1478
b' : 395
b'/a' : 26.72%

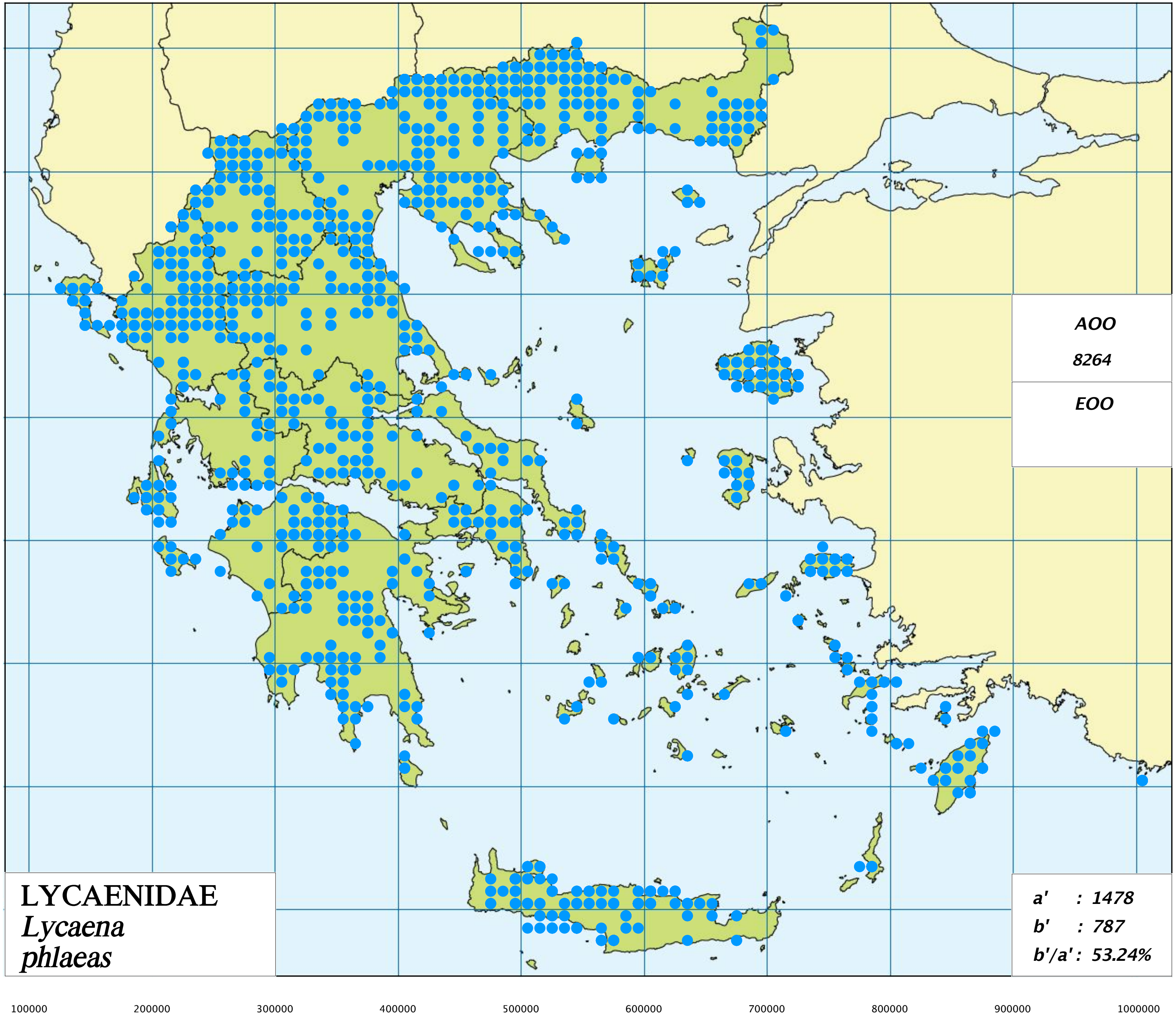

LYCAENIDAE
Satyrium
w-album
AOO
456
EOO
a' : 1478
b' : 69
b'/a' : 4.668%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

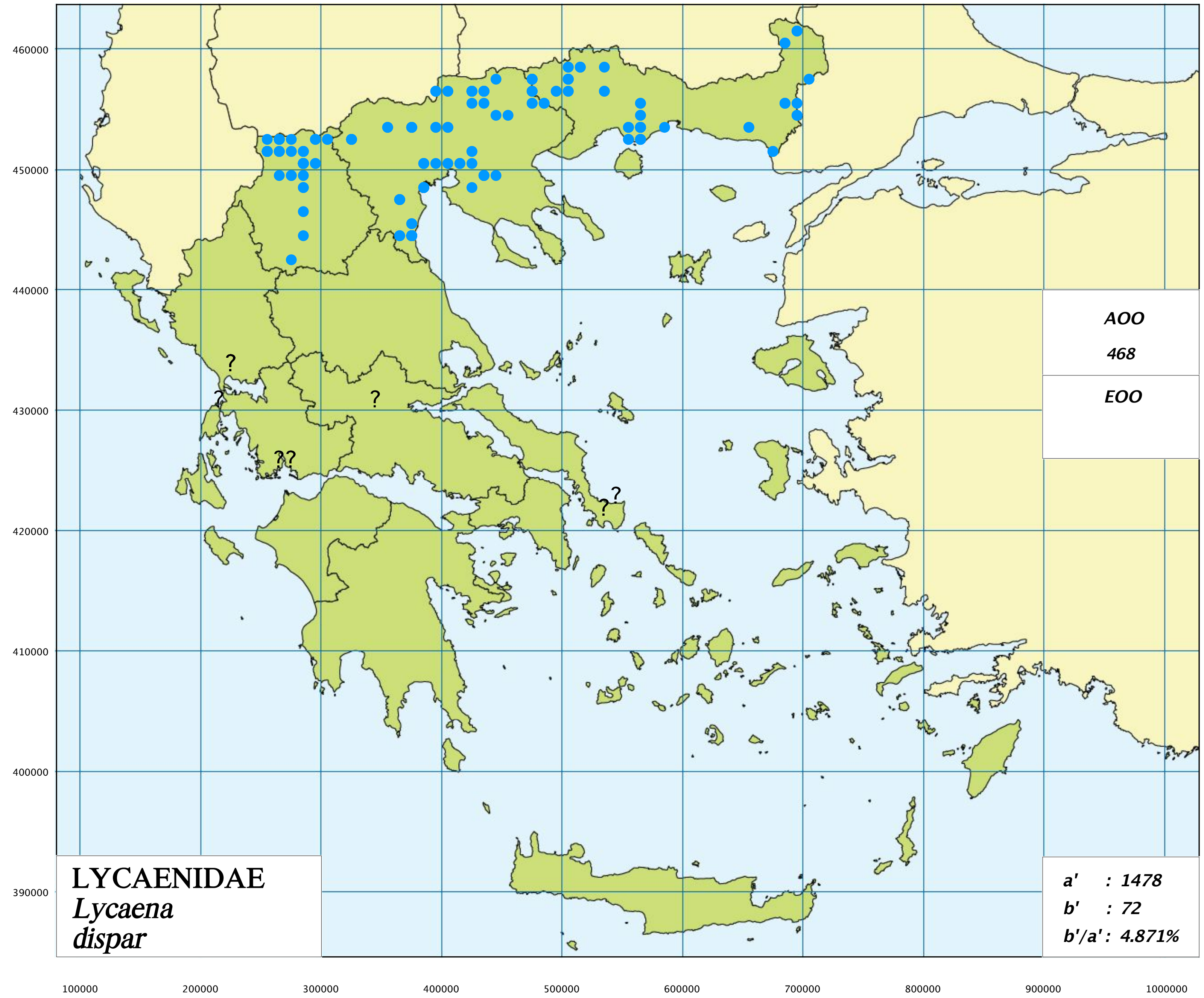

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
100
EOO
LYCAENIDAE
Satyrium
pruni
a' : 1478
b' : 18
b'/a' : 1.217%

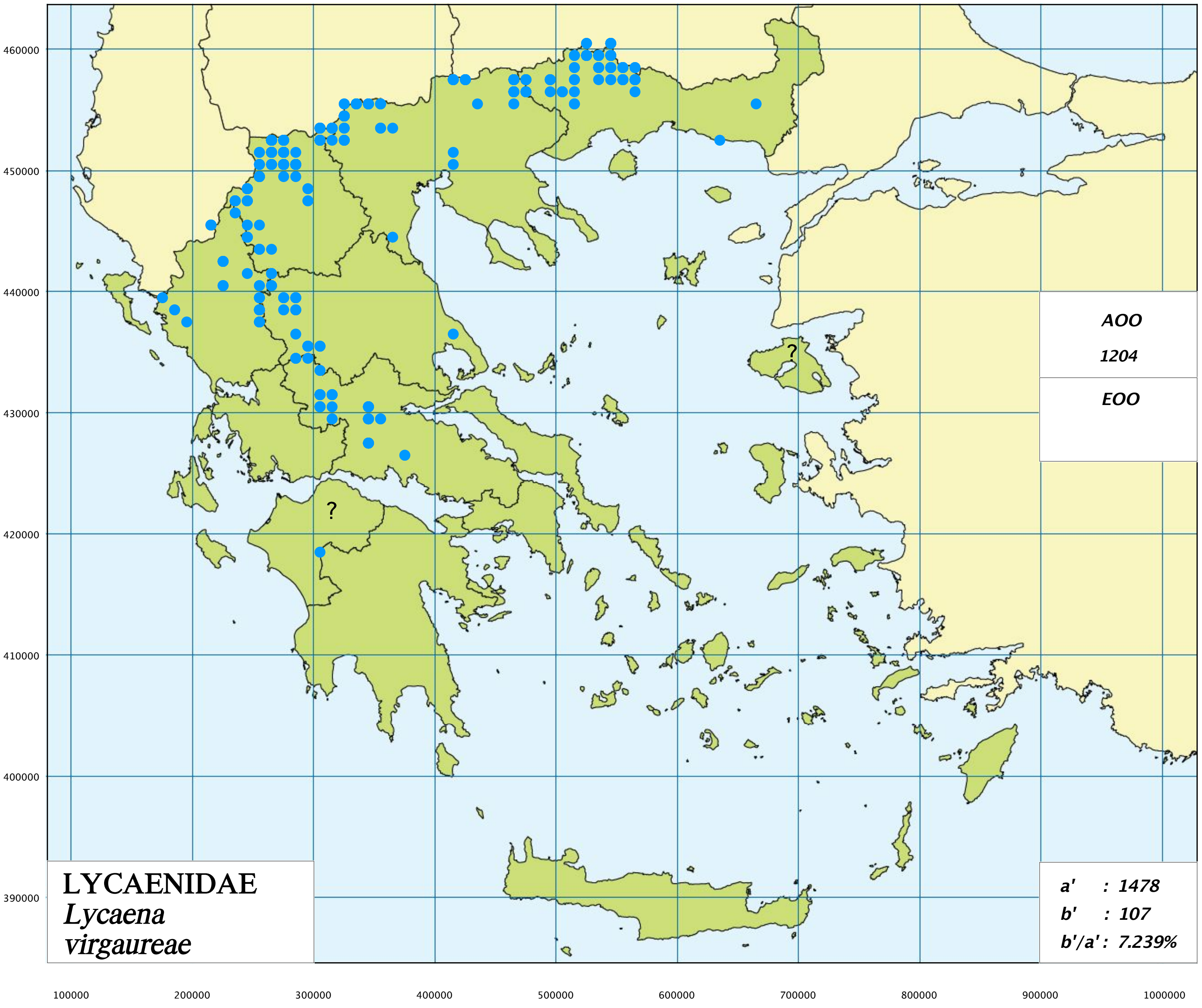

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1164
EOO
?
LYCAENIDAE
Satyrium
spini
a' : 1478
b' : 165
b'/a' : 11.16%



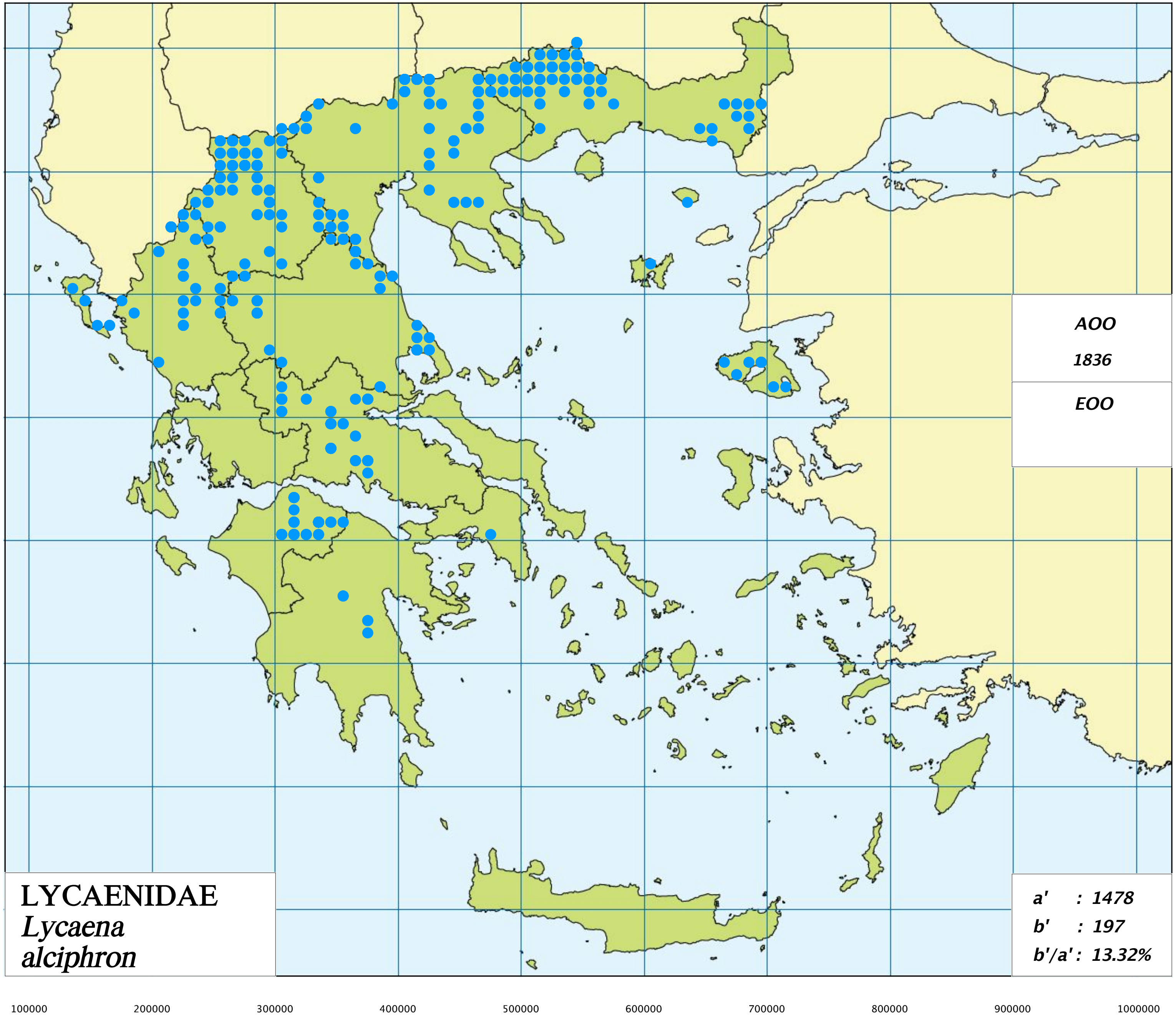
LYCAENIDAE
Callophrys rubi
AOO
2728
EOO
a' : 1478
b' : 354
b'/a' : 23.95%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

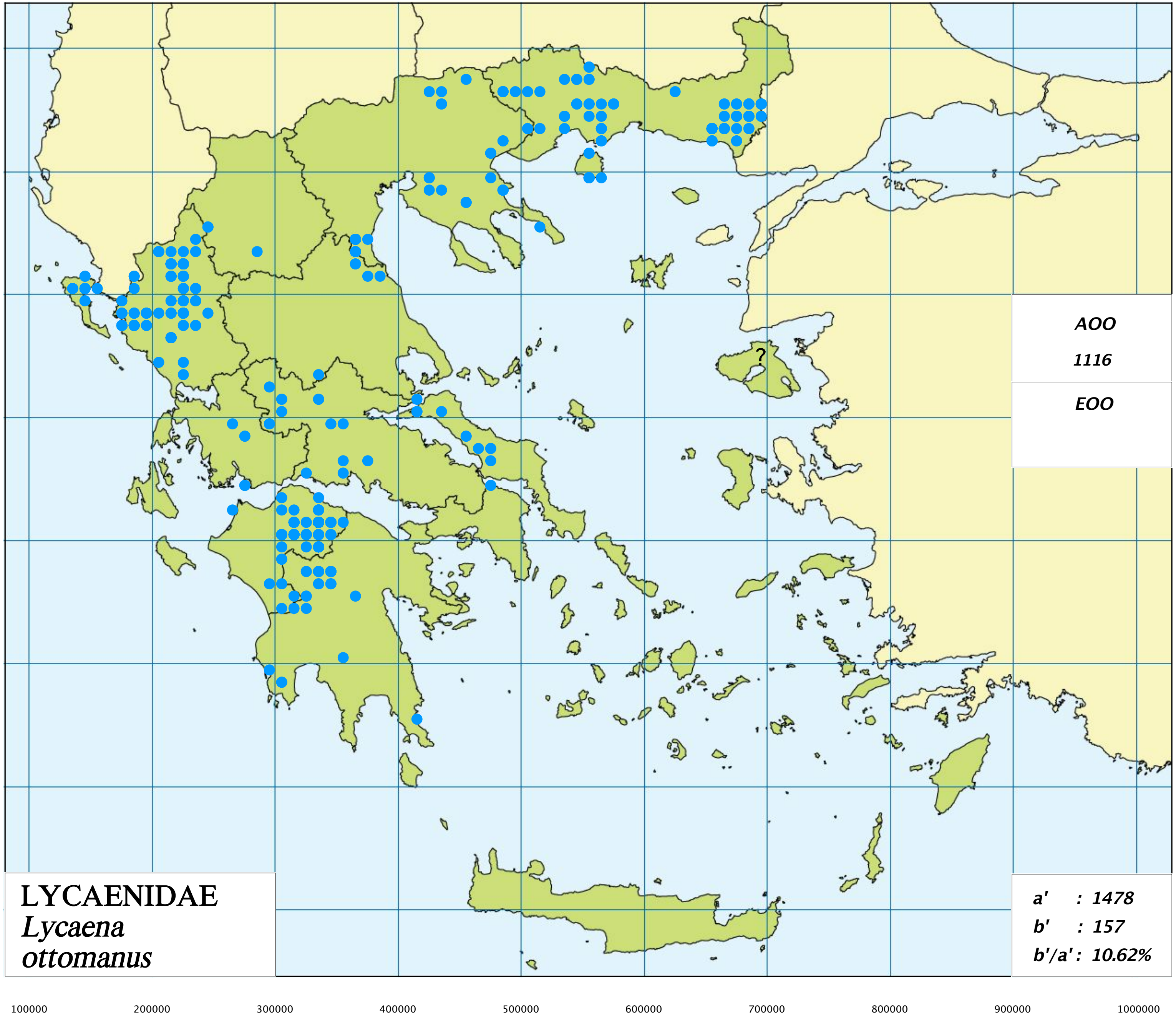

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
8264
EOO
LYCAENIDAE
Lycaena phlaeas
a' : 1478
b' : 787
b'/a' : 53.24%

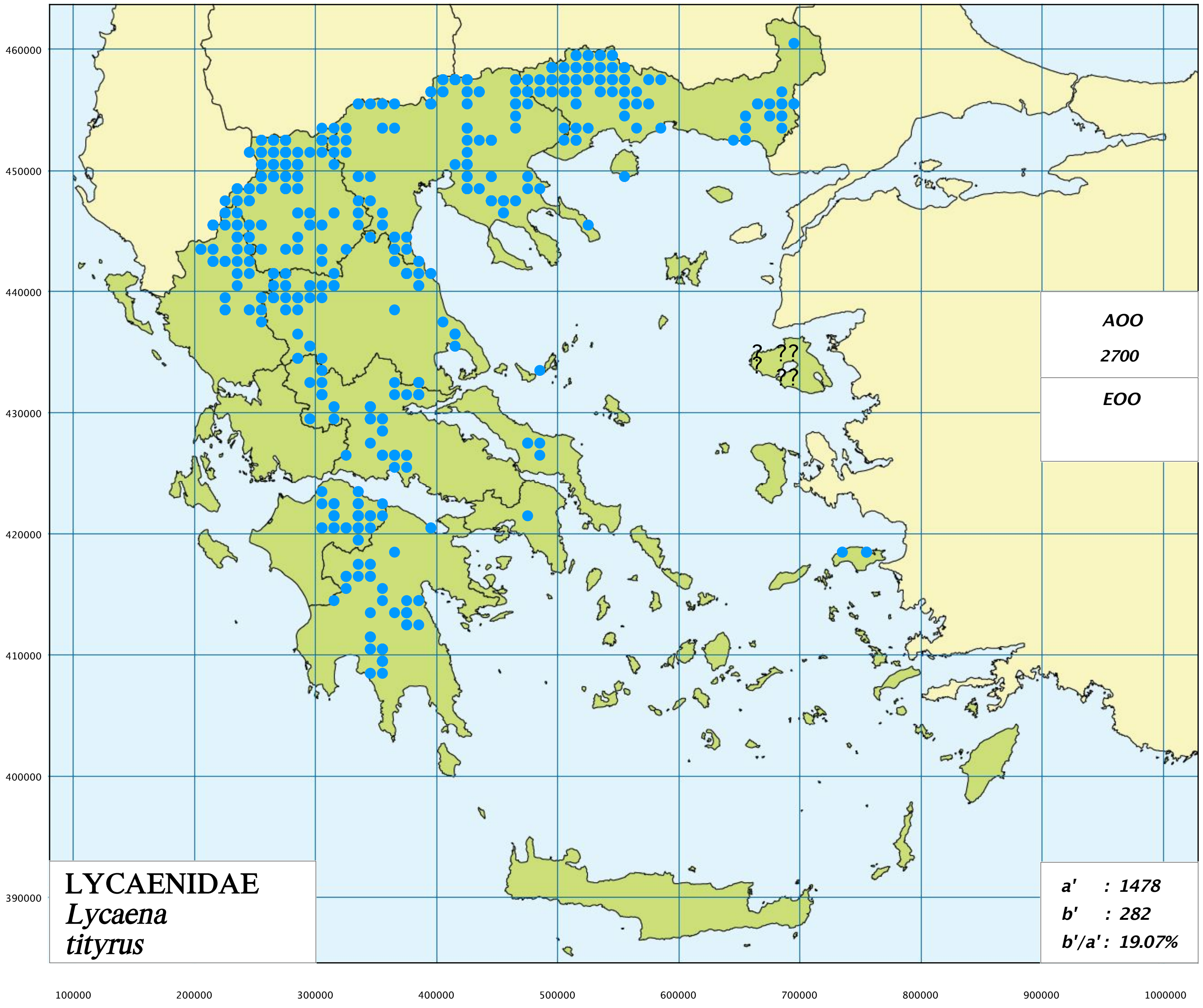

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
468
EOO
LYCAENIDAE
Lycaena dispar
a' : 1478
b' : 72
b'/a' : 4.871%



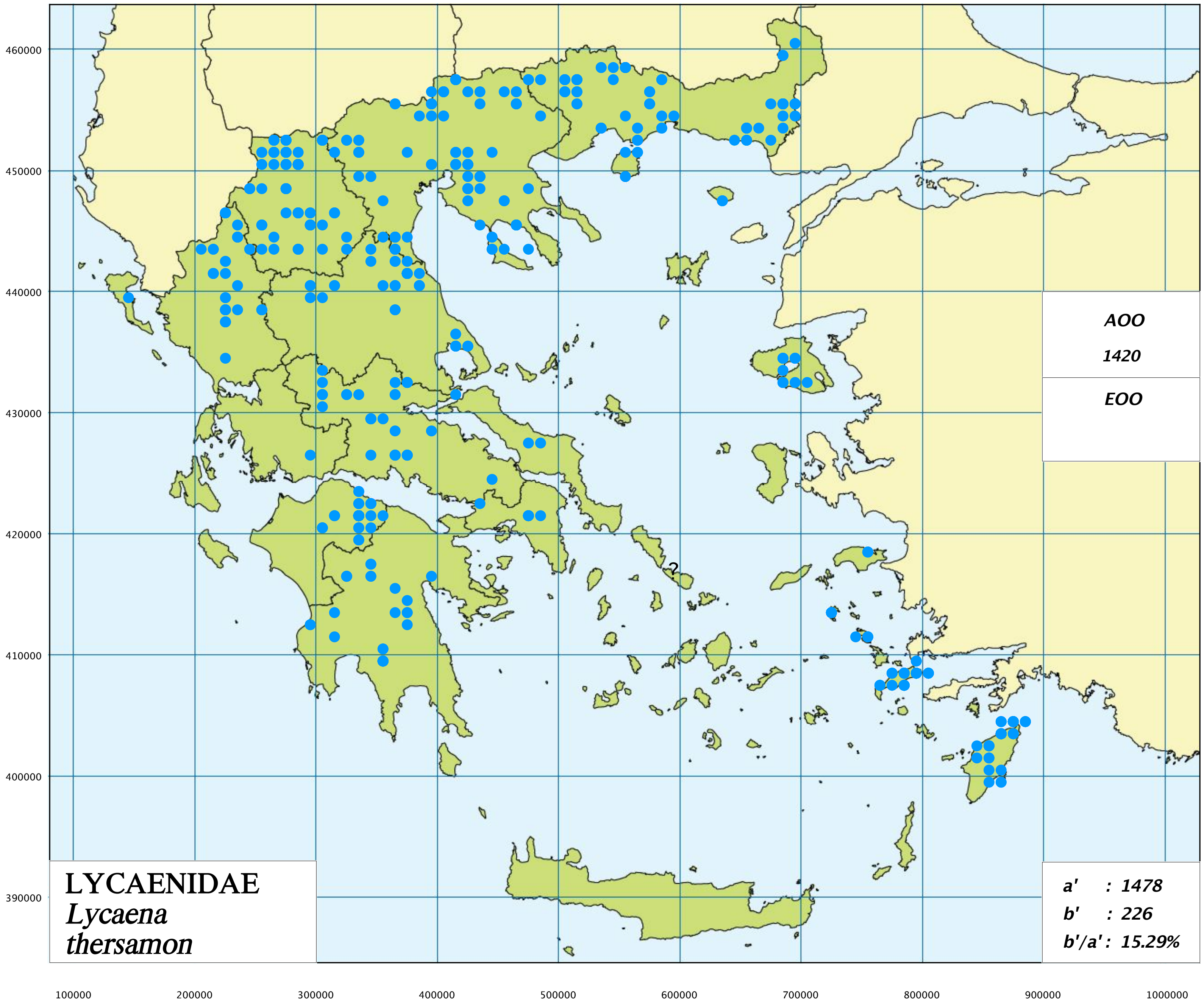
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
1204
EOO
LYCAENIDAE
Lycaena virgaureae
a' : 1478
b' : 107
b'/a' : 7.239%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1836
EOO
LYCAENIDAE
Lycaena alciphron
a' : 1478
b' : 197
b'/a' : 13.32%

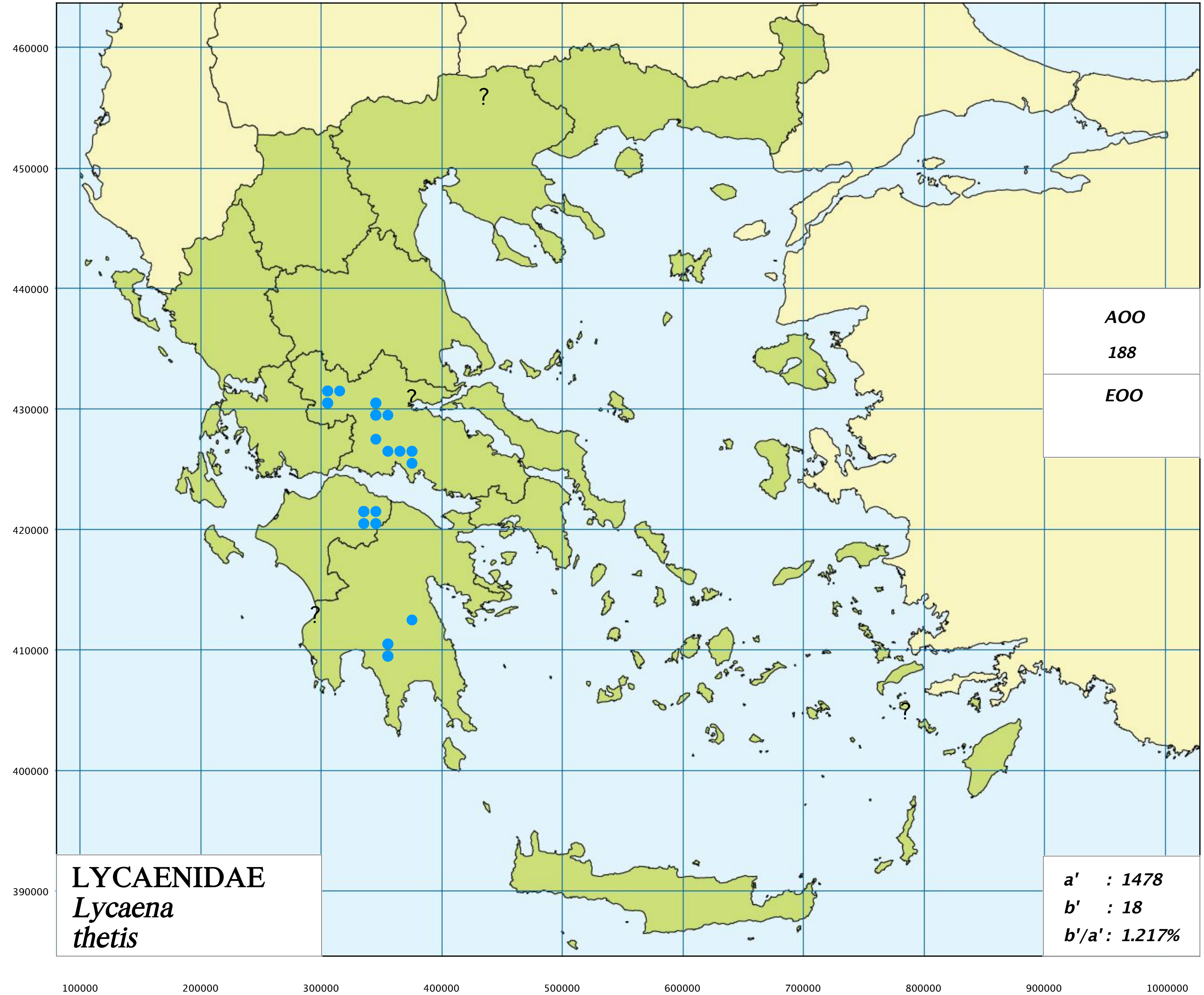

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1116
EOO
LYCAENIDAE
Lycaena ottomanus
a' : 1478
b' : 157
b'/a' : 10.62%



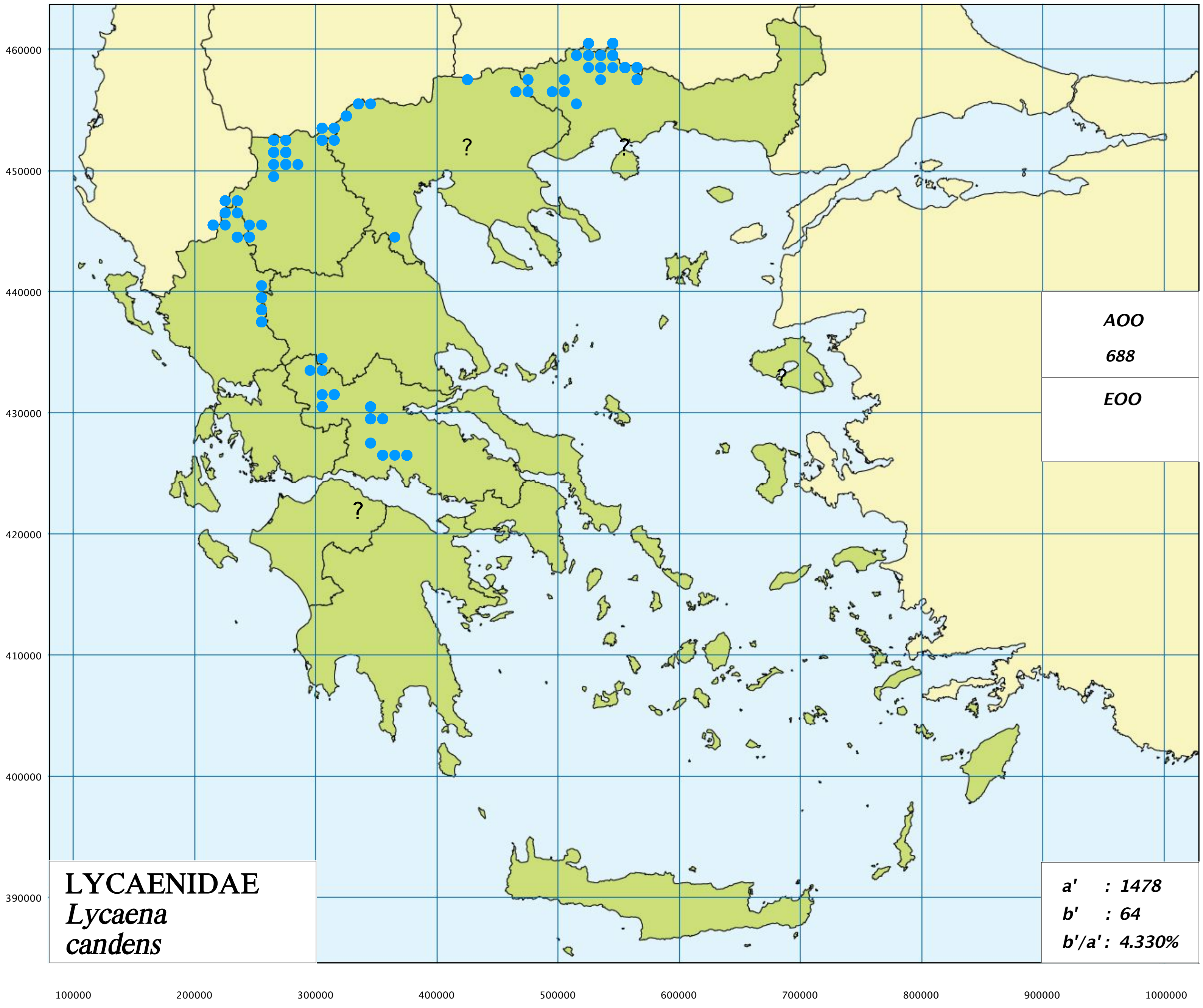
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2700
EOO
LYCAENIDAE
Lycaena tityrus
a' : 1478
b' : 282
b'/a' : 19.07%

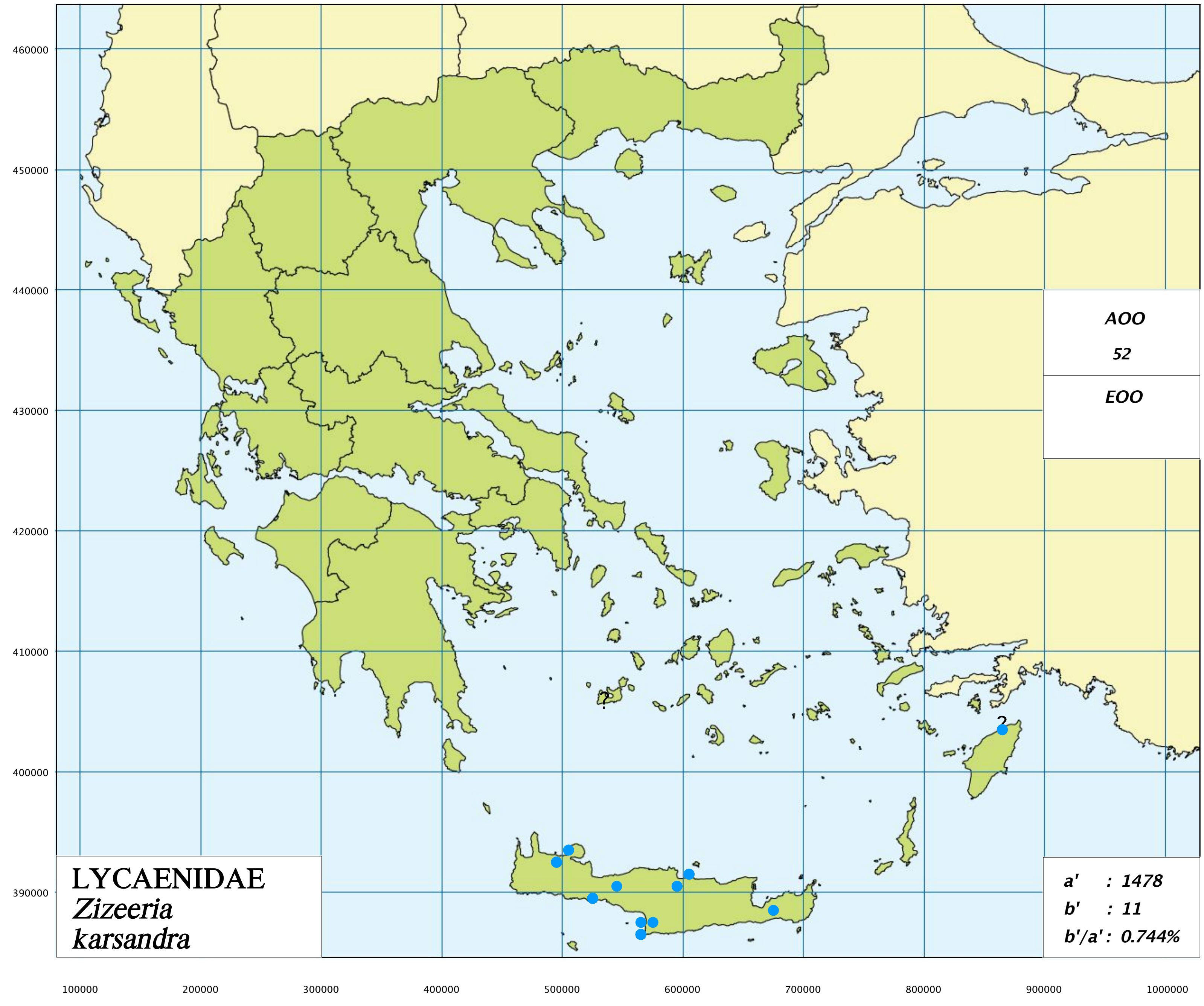


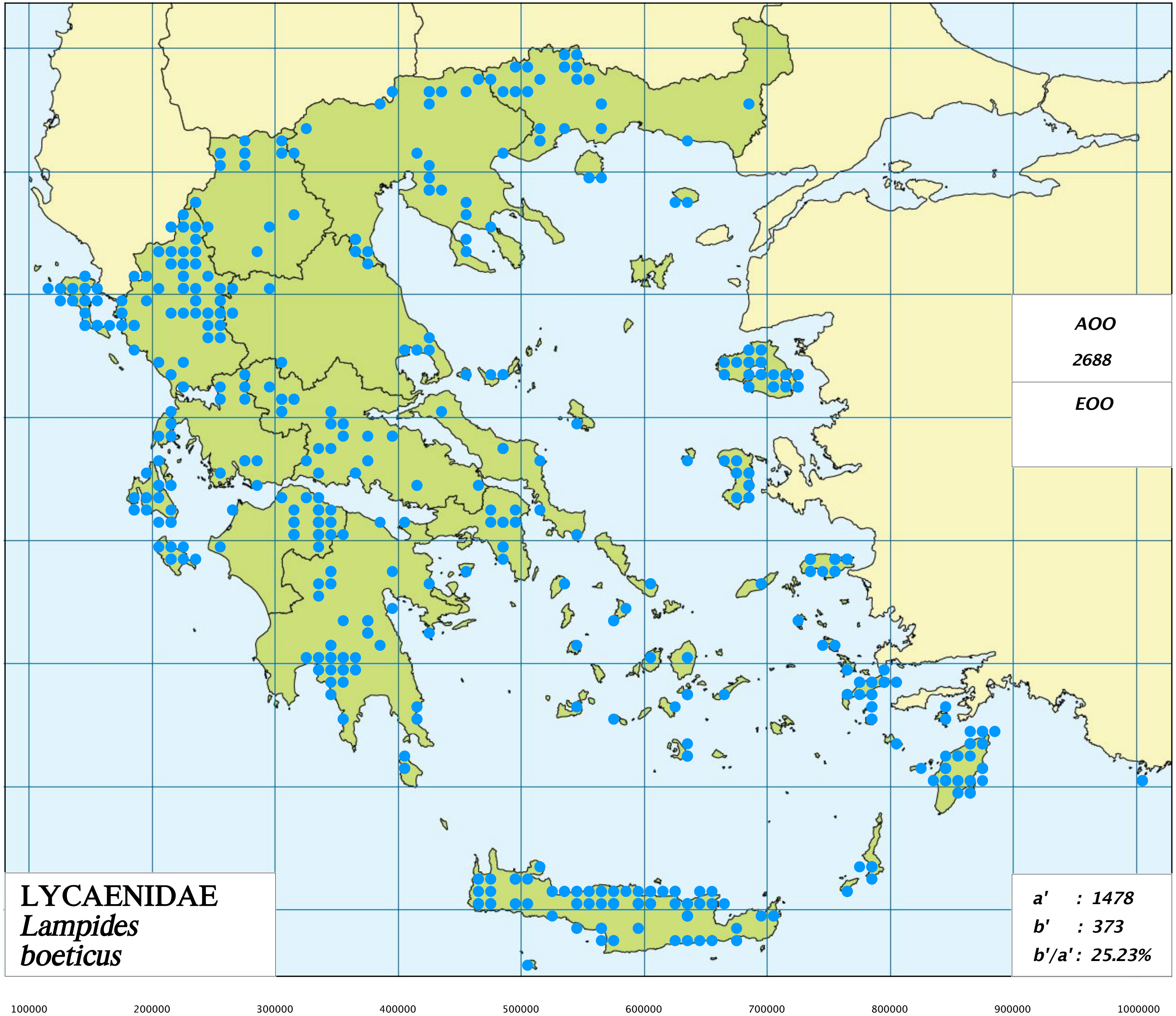
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1420
EOO
LYCAENIDAE
Lycaena thersamon
a' : 1478
b' : 226
b'/a' : 15.29%



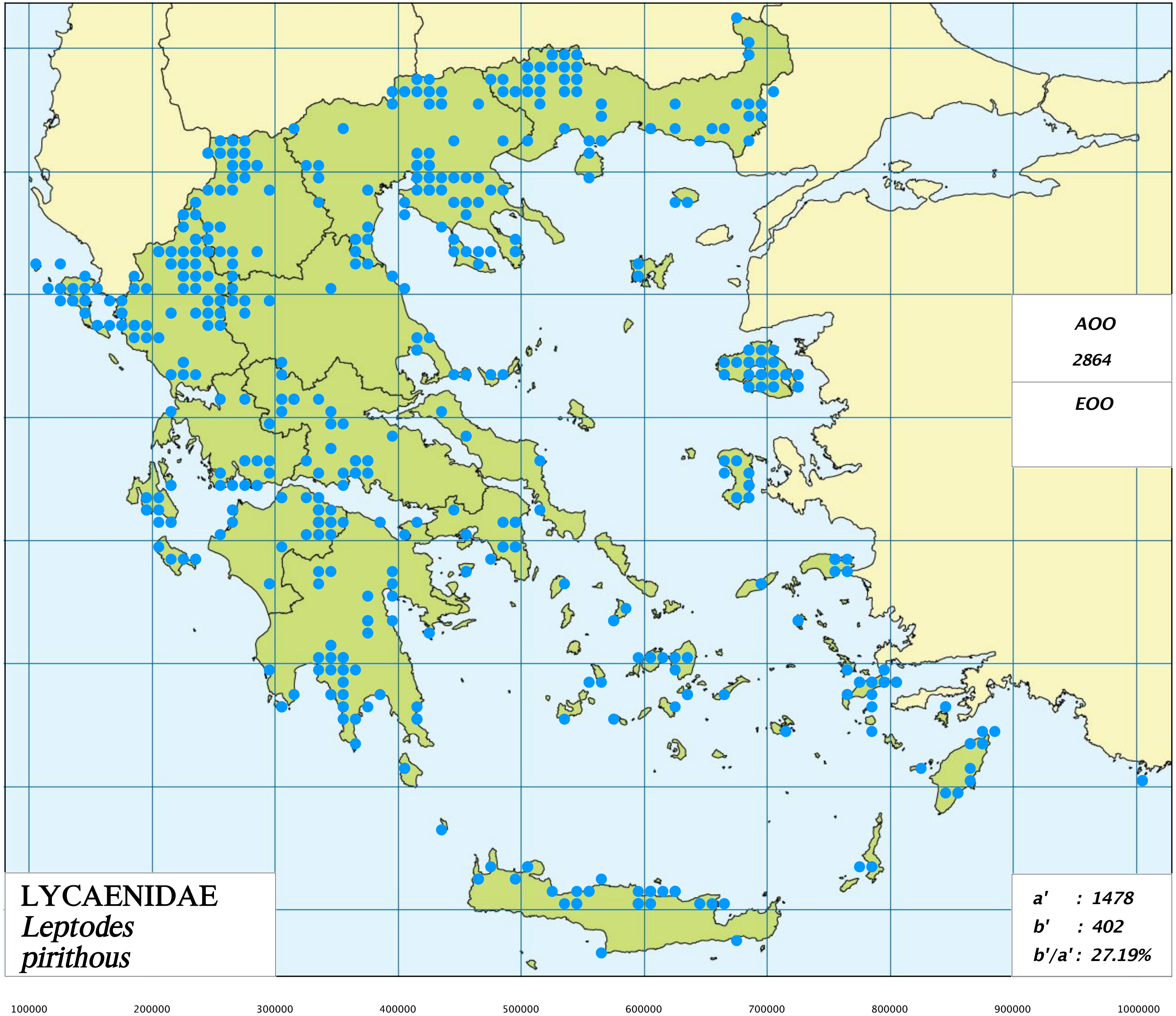
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
188
EOO
LYCAENIDAE
Lycaena
thetis
a' : 1478
b' : 18
b'/a' : 1.217%

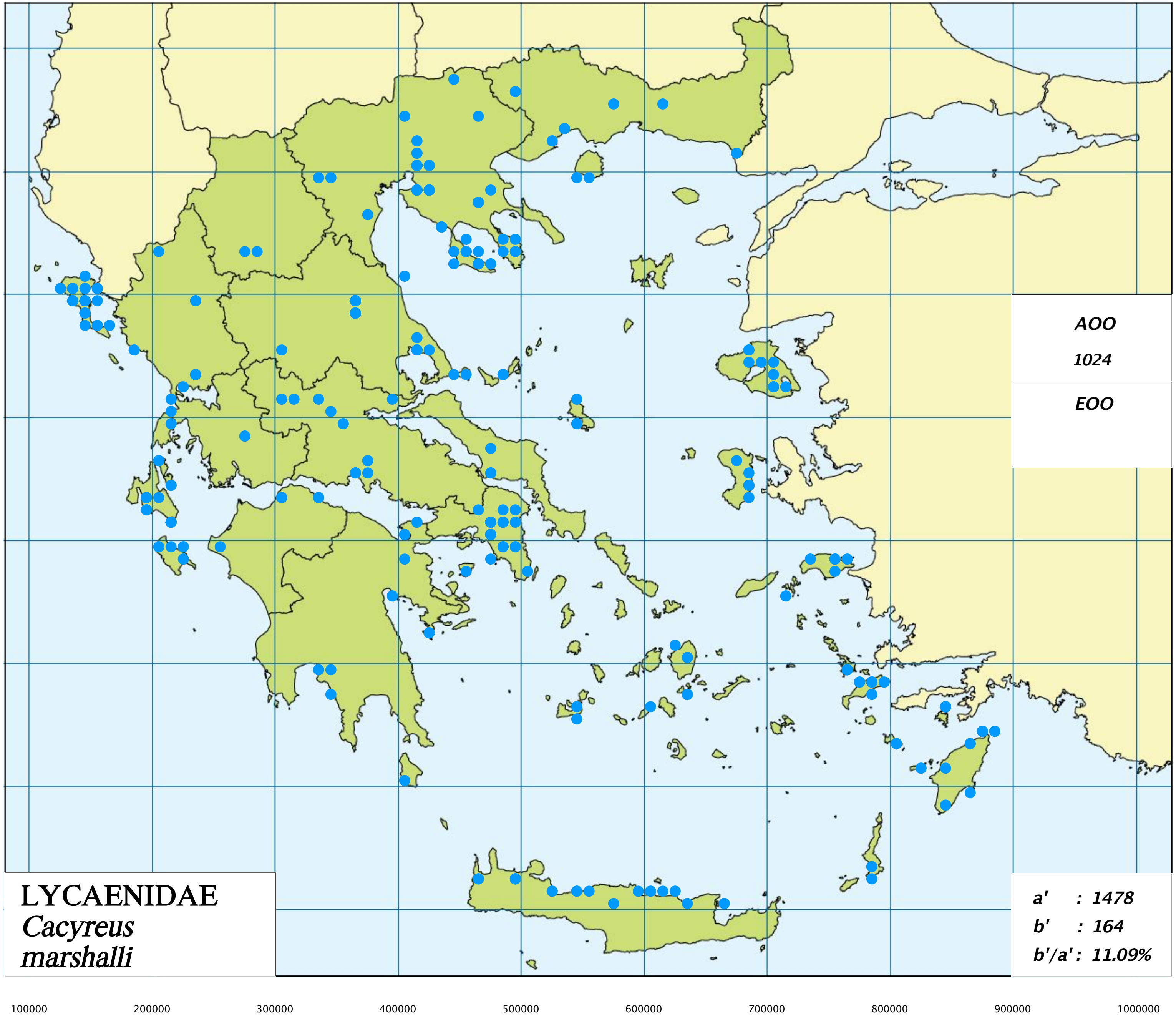

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
688
EOO
LYCAENIDAE
Lycaena
candens
a' : 1478
b' : 64
b'/a' : 4.330%

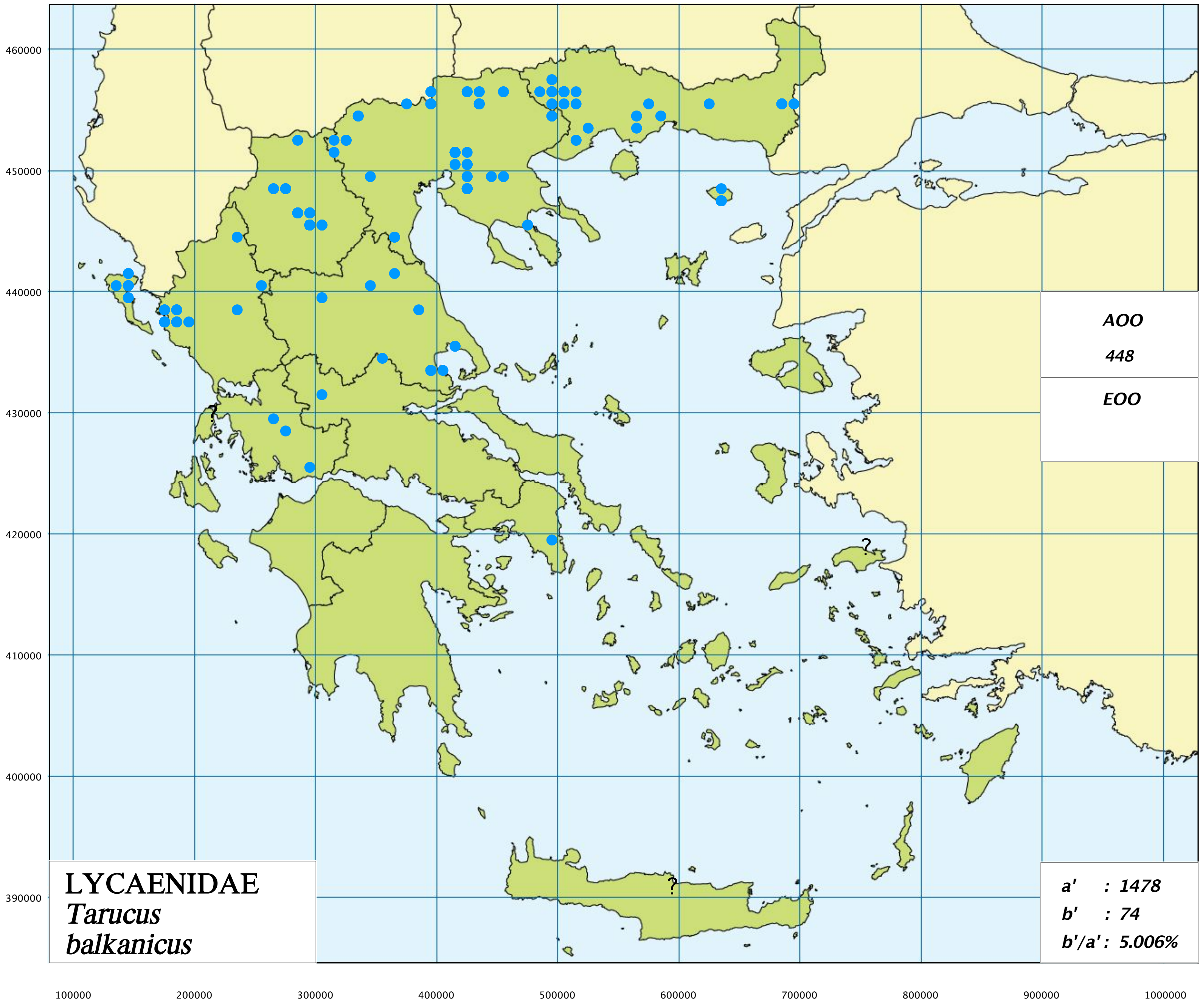

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
52
EOO
2
a' : 1478
b' : 11
b'/a' : 0.744%
LYCAENIDAE
Zizeeria karsandra



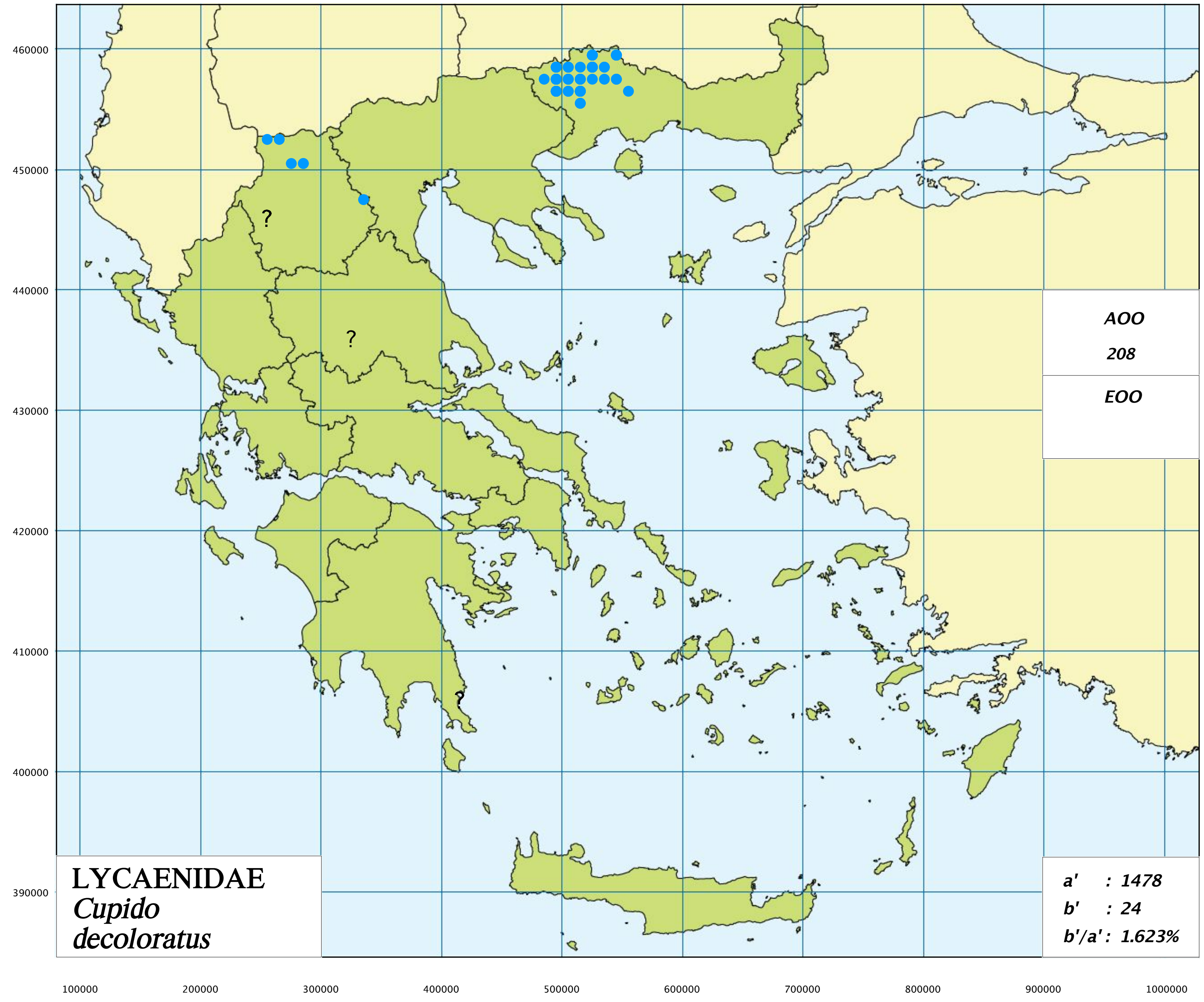
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2688
EOO
LYCAENIDAE
Lampides boeticus
a' : 1478
b' : 373
b'/a' : 25.23%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2864
EOO
LYCAENIDAE
Leptodes pirithous
a' : 1478
b' : 402
b'/a' : 27.19%

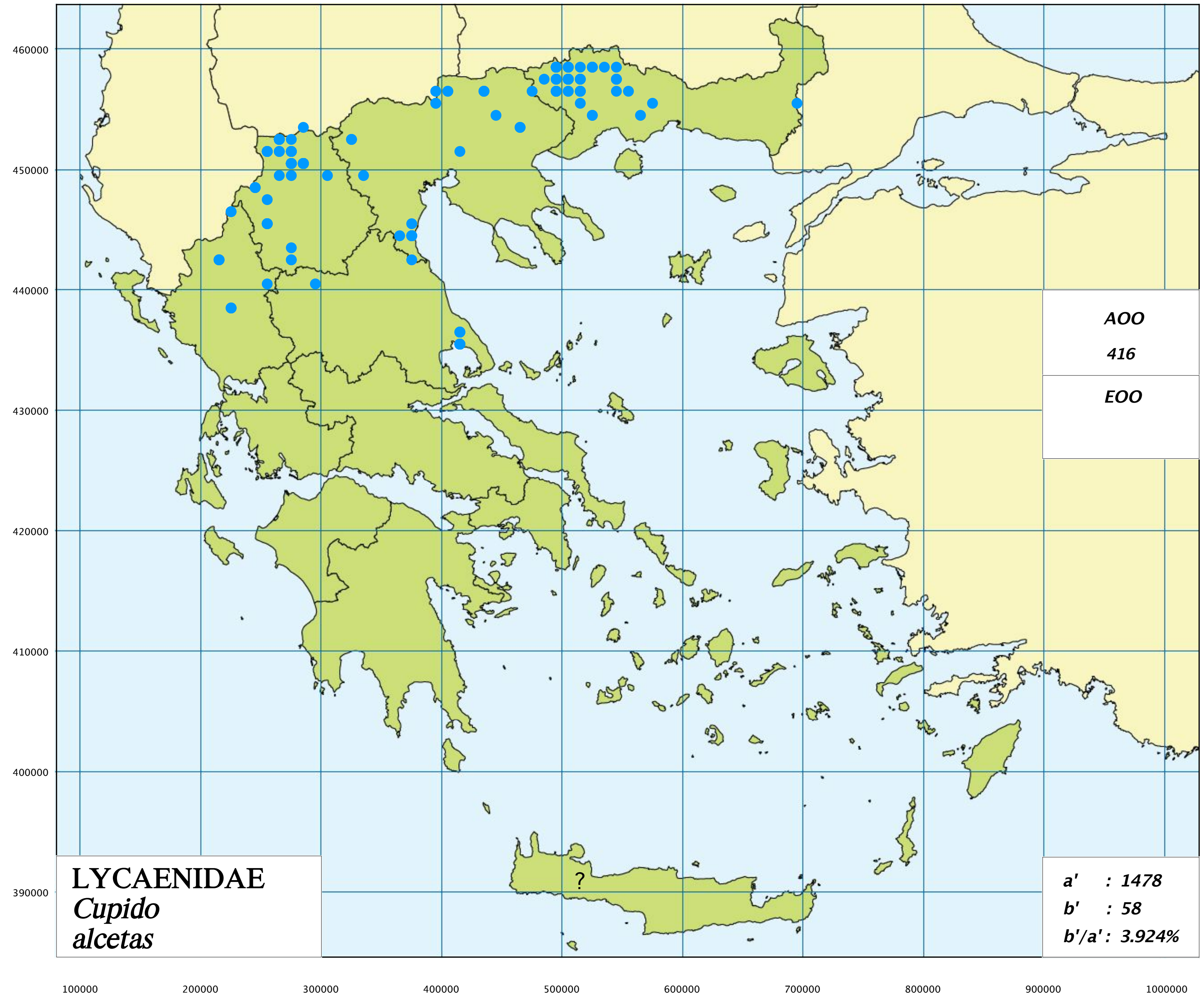

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1024
EOO
LYCAENIDAE
Cacyreus marshalli
a' : 1478
b' : 164
b'/a' : 11.09%



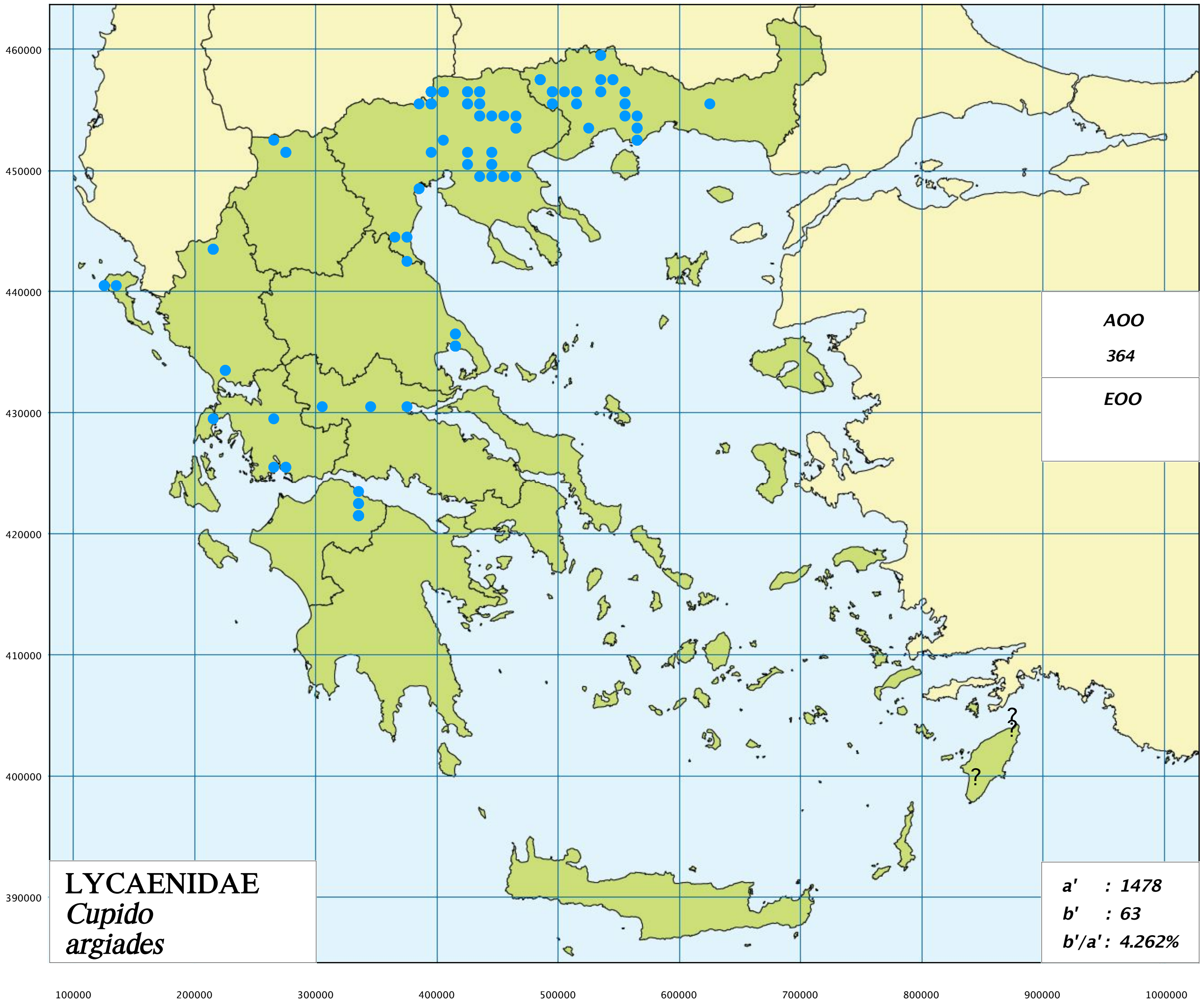
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
448
EOO
LYCAENIDAE
Tarucus balkanicus
a' : 1478
b' : 74
b'/a' : 5.006%

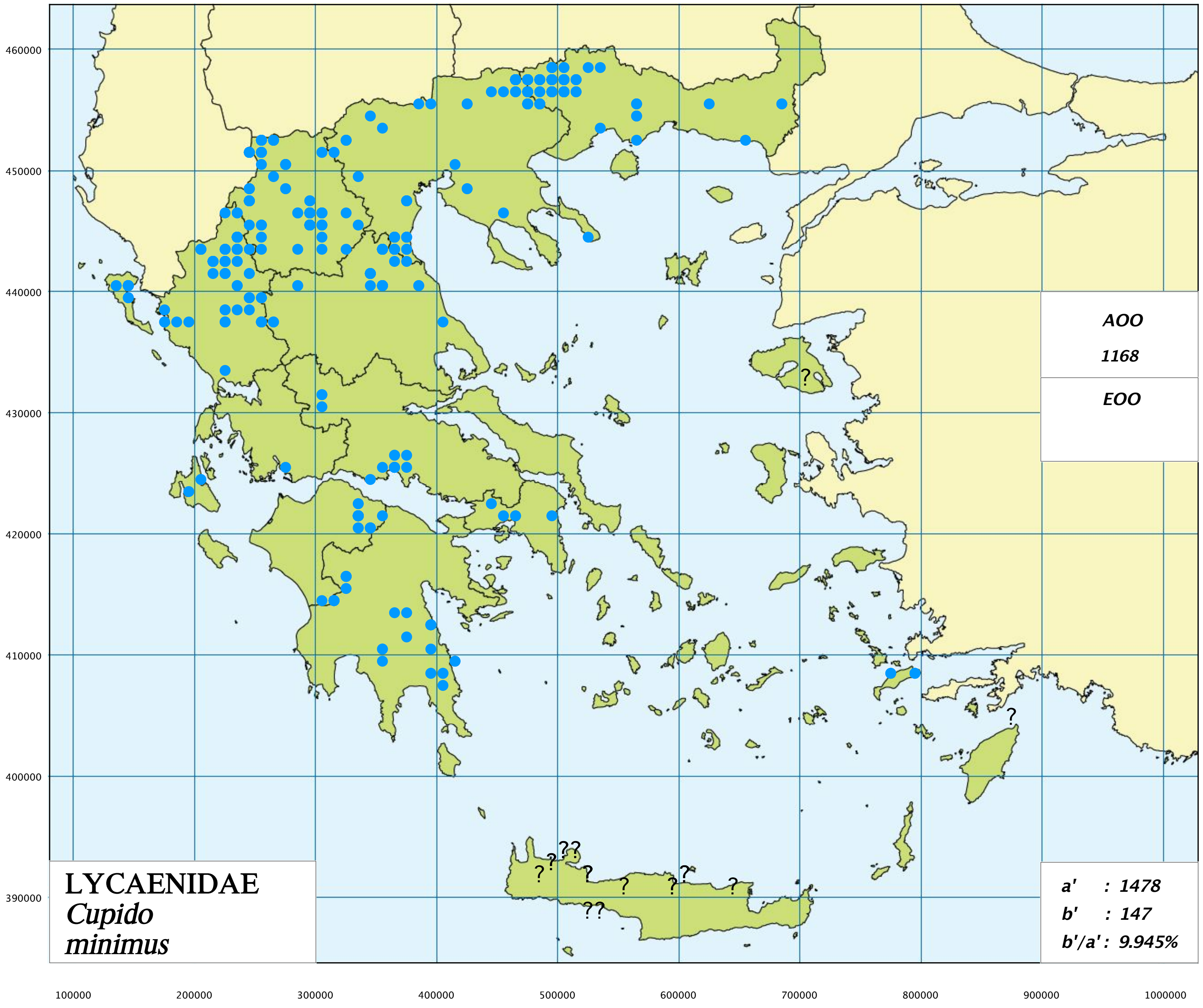


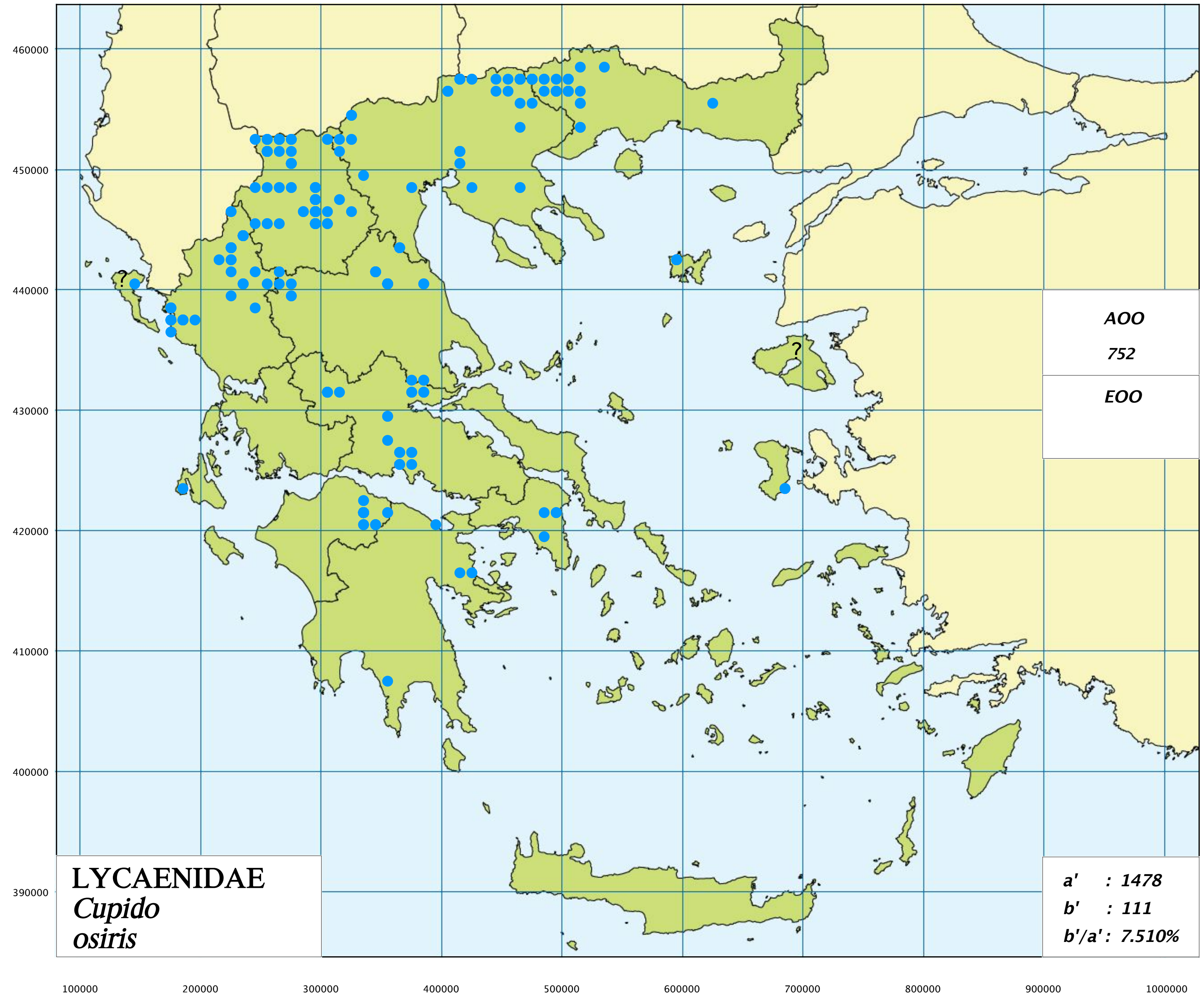
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
208
EOO
LYCAENIDAE
Cupido decoloratus
a' : 1478
b' : 24
b'/a' : 1.623%

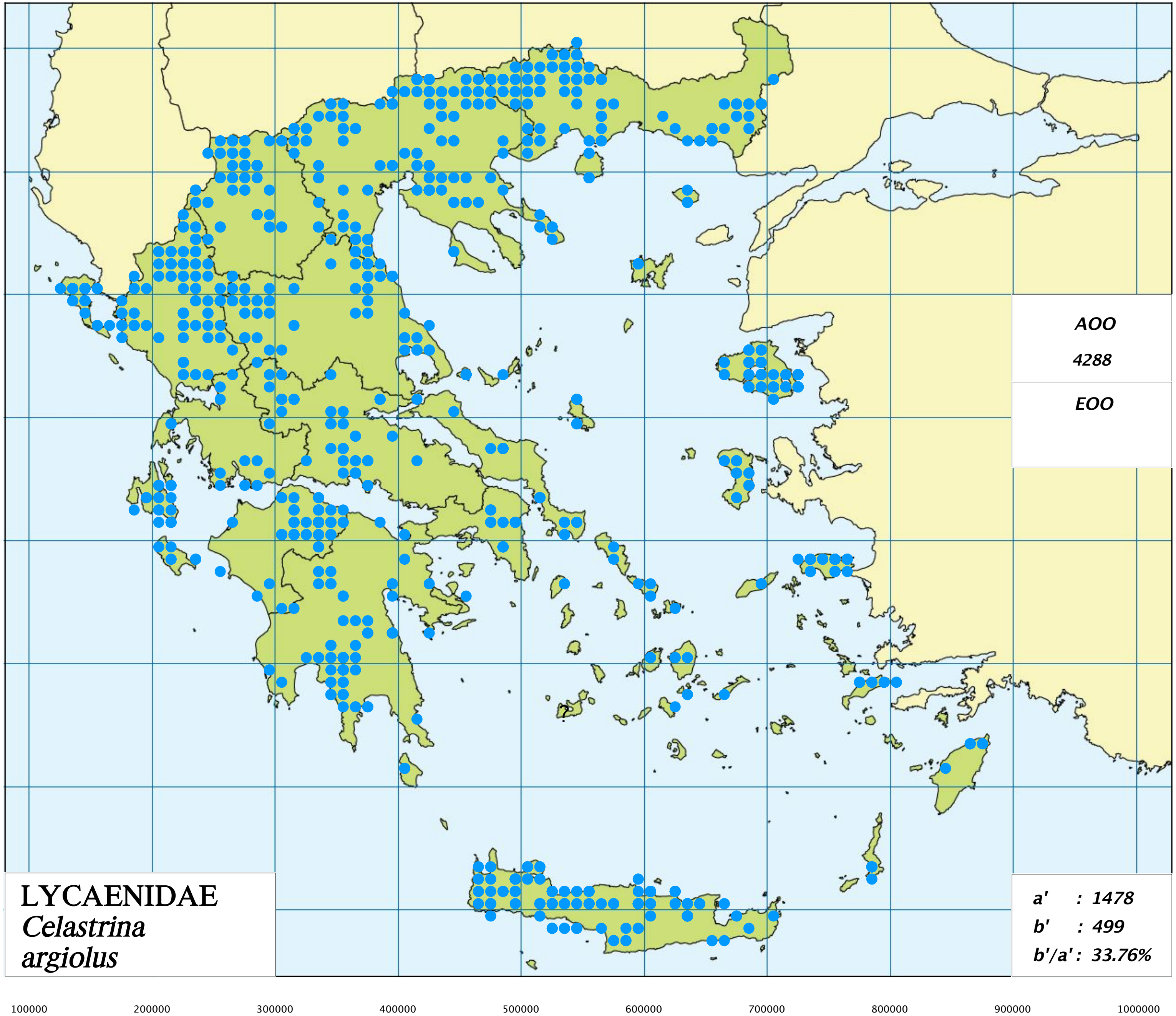


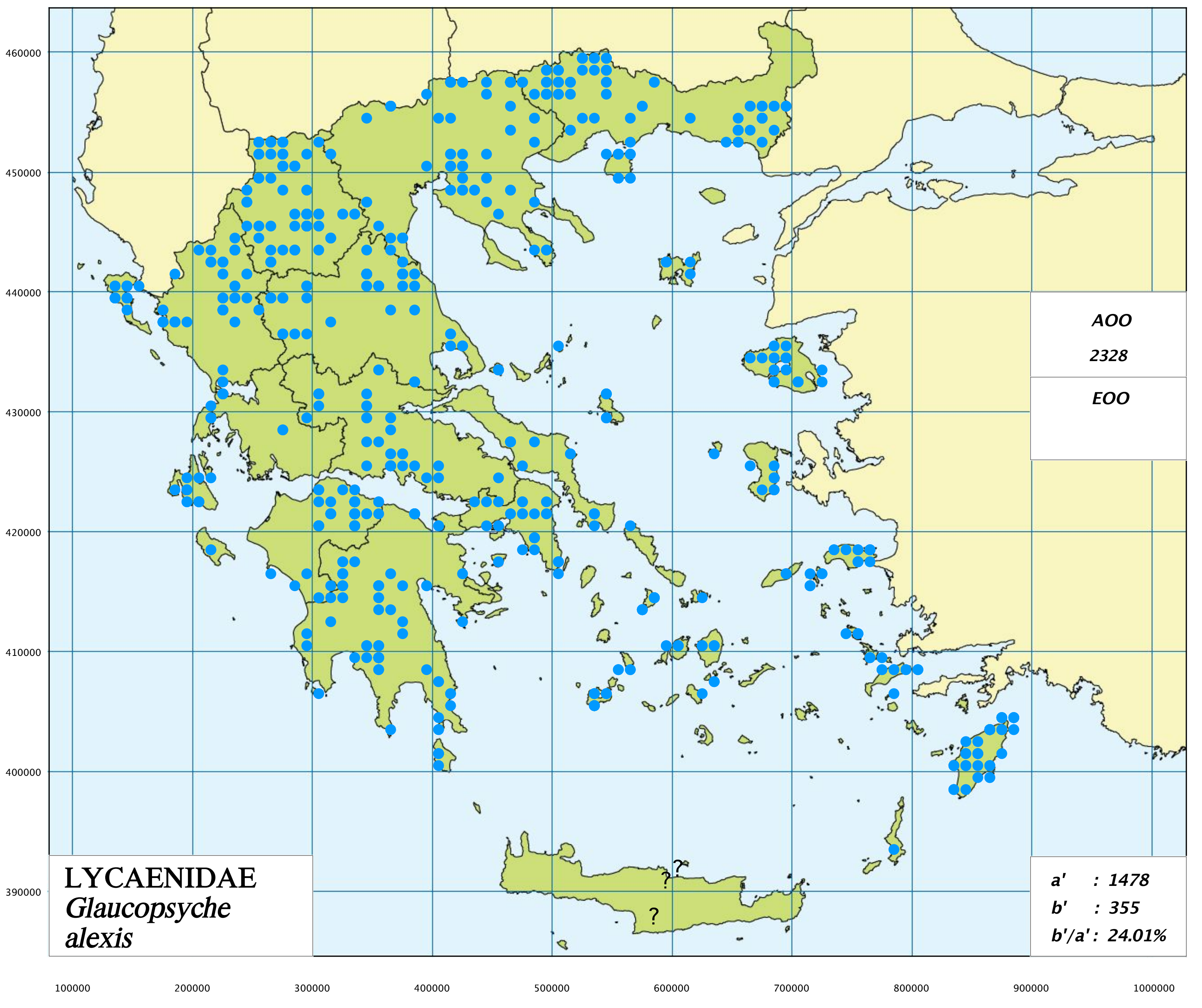
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
416
EOO
?
LYCAENIDAE
Cupido
alcetas
a' : 1478
b' : 58
b'/a' : 3.924%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
364
EOO
LYCAENIDAE
Cupido
argiades
a' : 1478
b' : 63
b'/a' : 4.262%

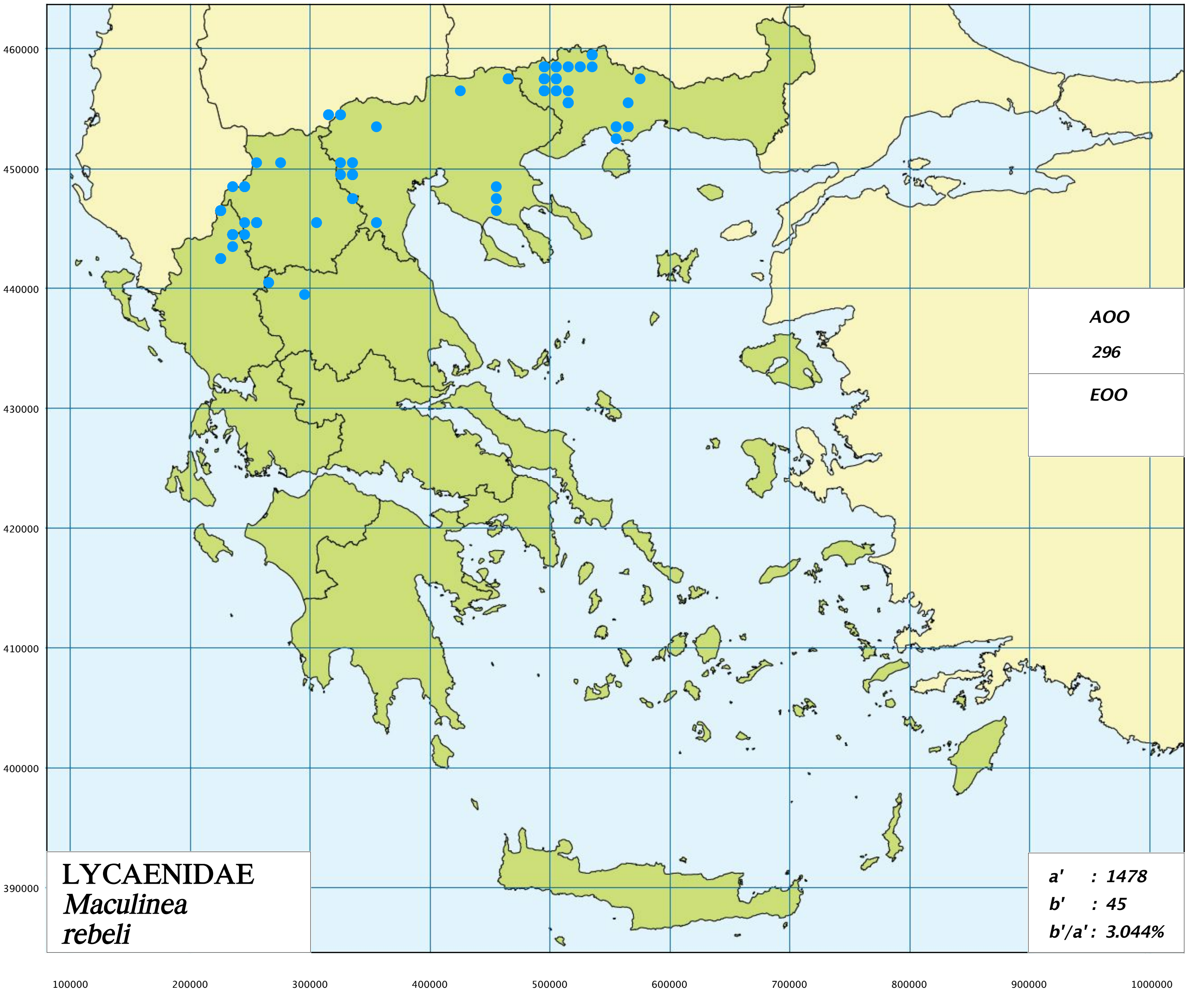

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1168
EOO
LYCAENIDAE
Cupido
minimus
a' : 1478
b' : 147
b'/a' : 9.945%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
752
EOO
LYCAENIDAE
Cupido osiris
a' : 1478
b' : 111
b'/a' : 7.510%

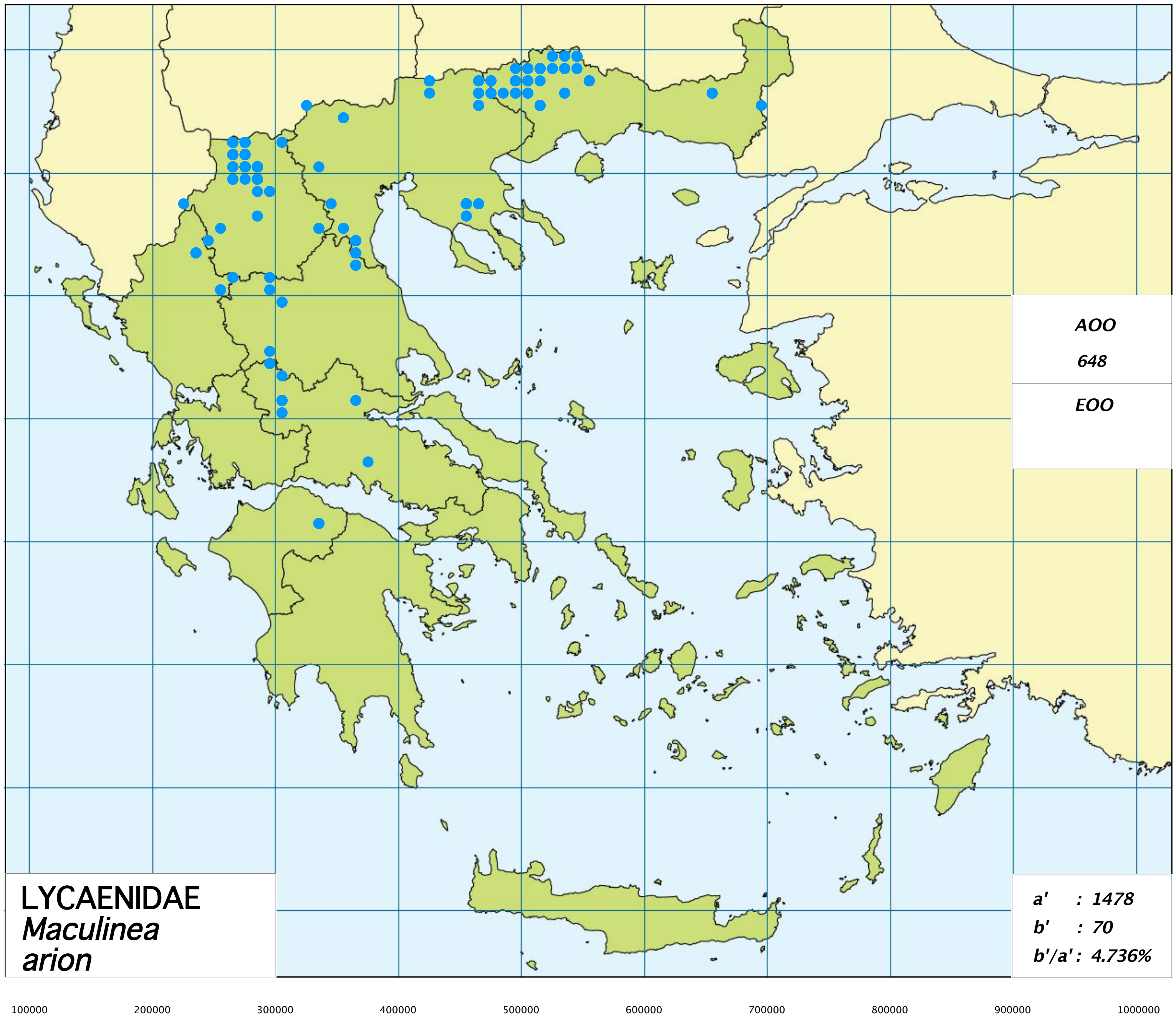

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4288
EOO
LYCAENIDAE
Celastrina argiolus
a' : 1478
b' : 499
b'/a' : 33.76%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2328
EOO
LYCAENIDAE
Glaucopsyche
alexis
a' : 1478
b' : 355
b'/a' : 24.01%

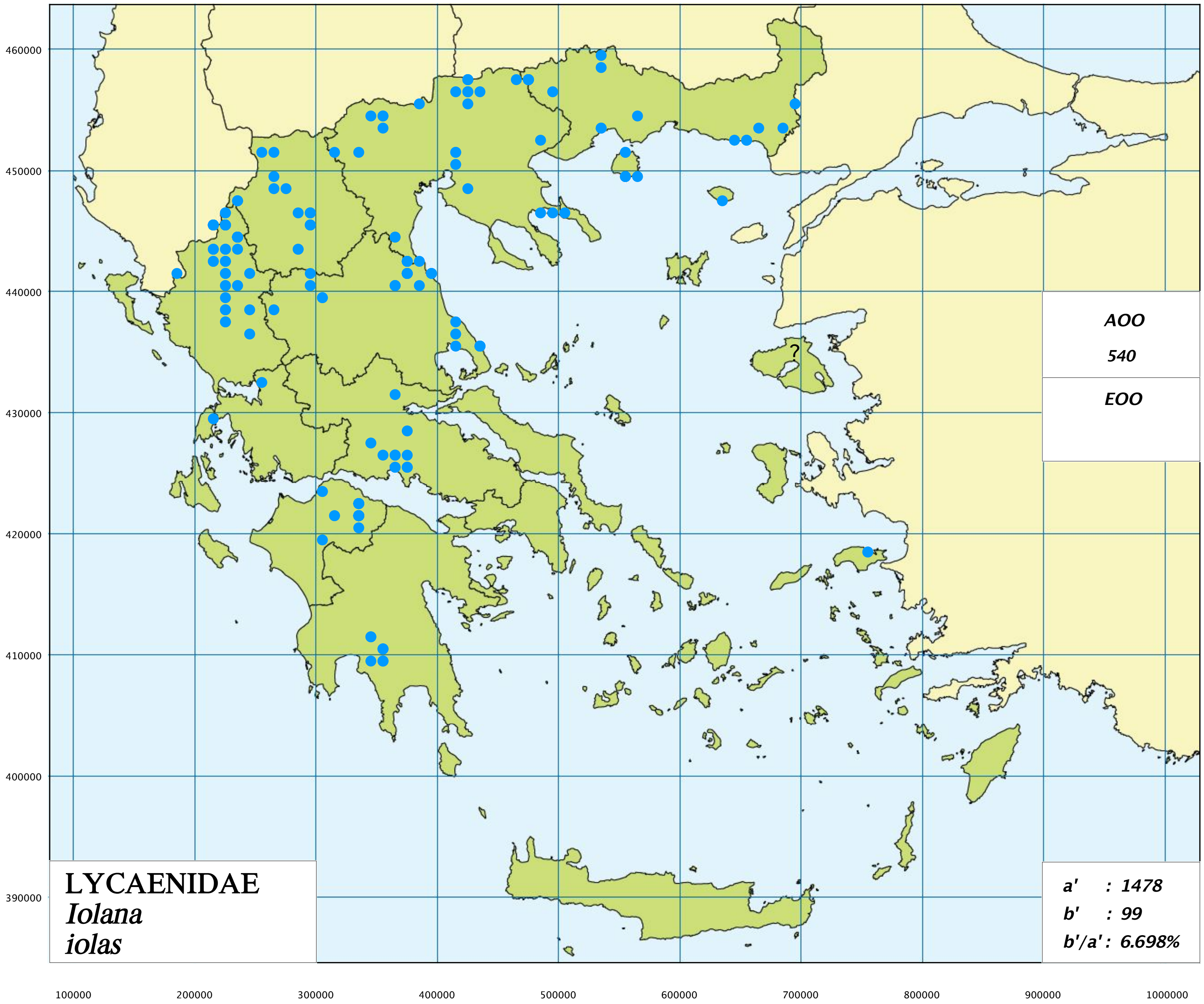
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
72
EOO
?
LYCAENIDAE
Turanana taygetica
a' : 1478
b' : 9
b'/a' : 0.608%

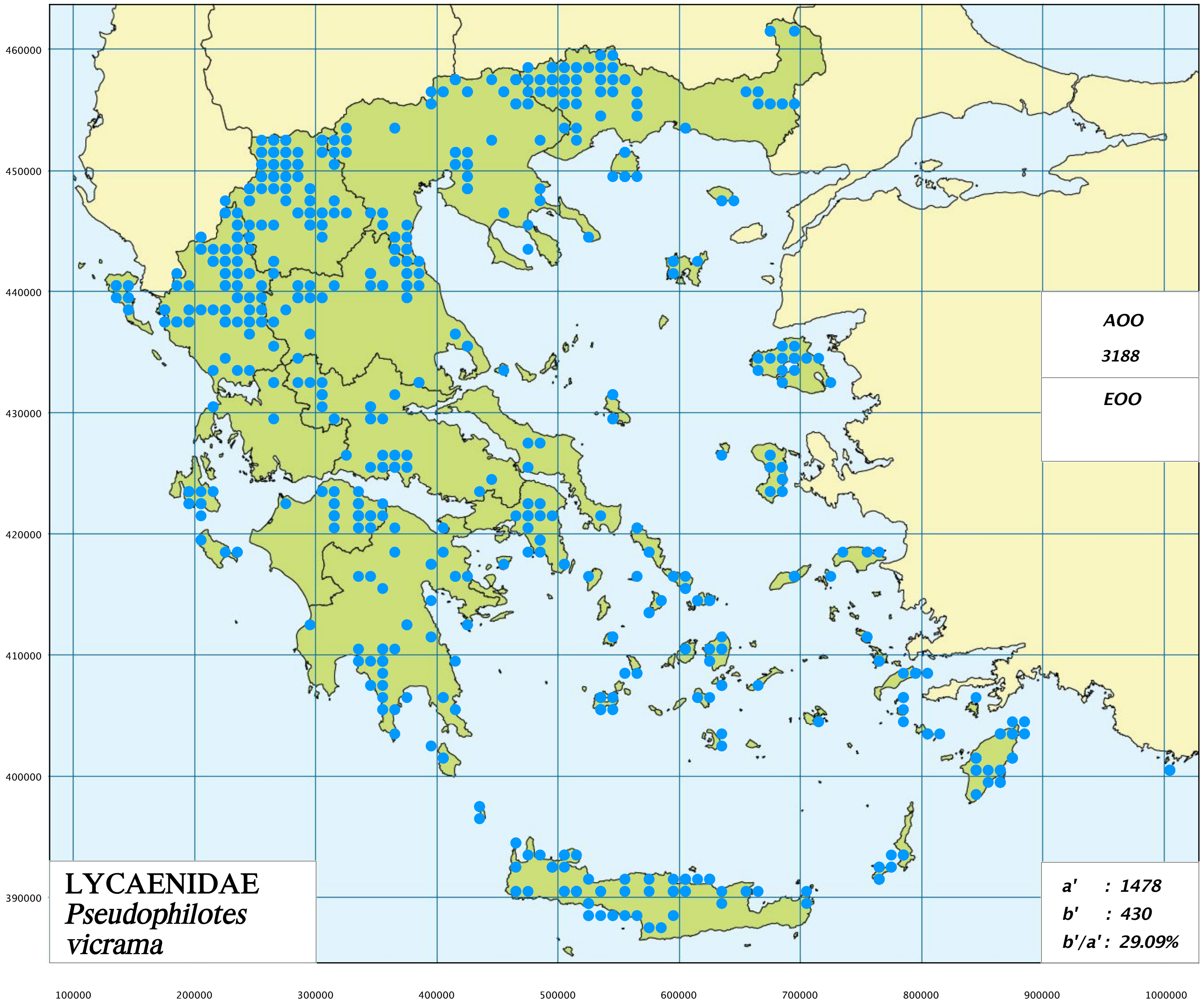


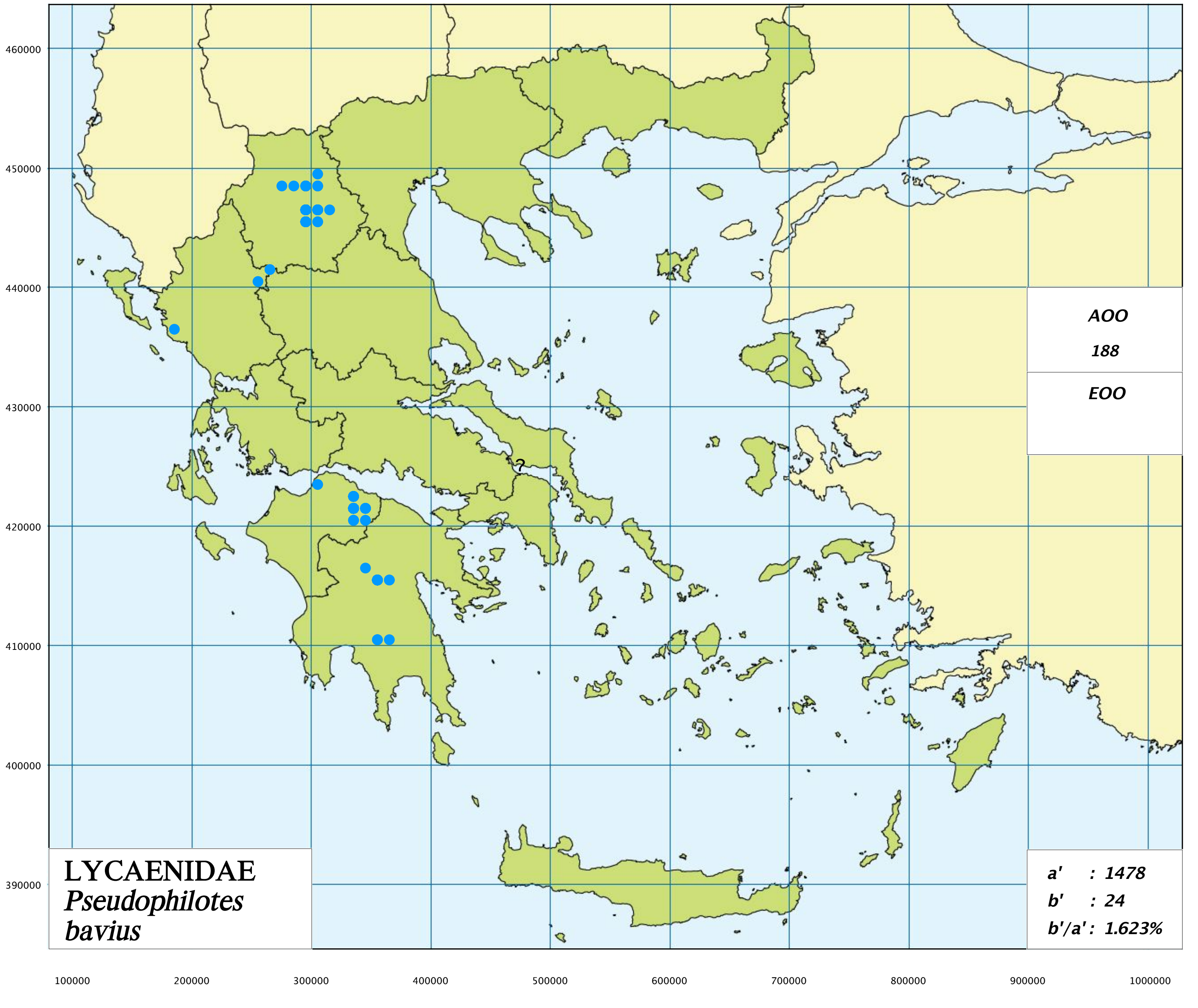
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
296
EOO
LYCAENIDAE
Maculinea
rebeli
a' : 1478
b' : 45
b'/a' : 3.044%

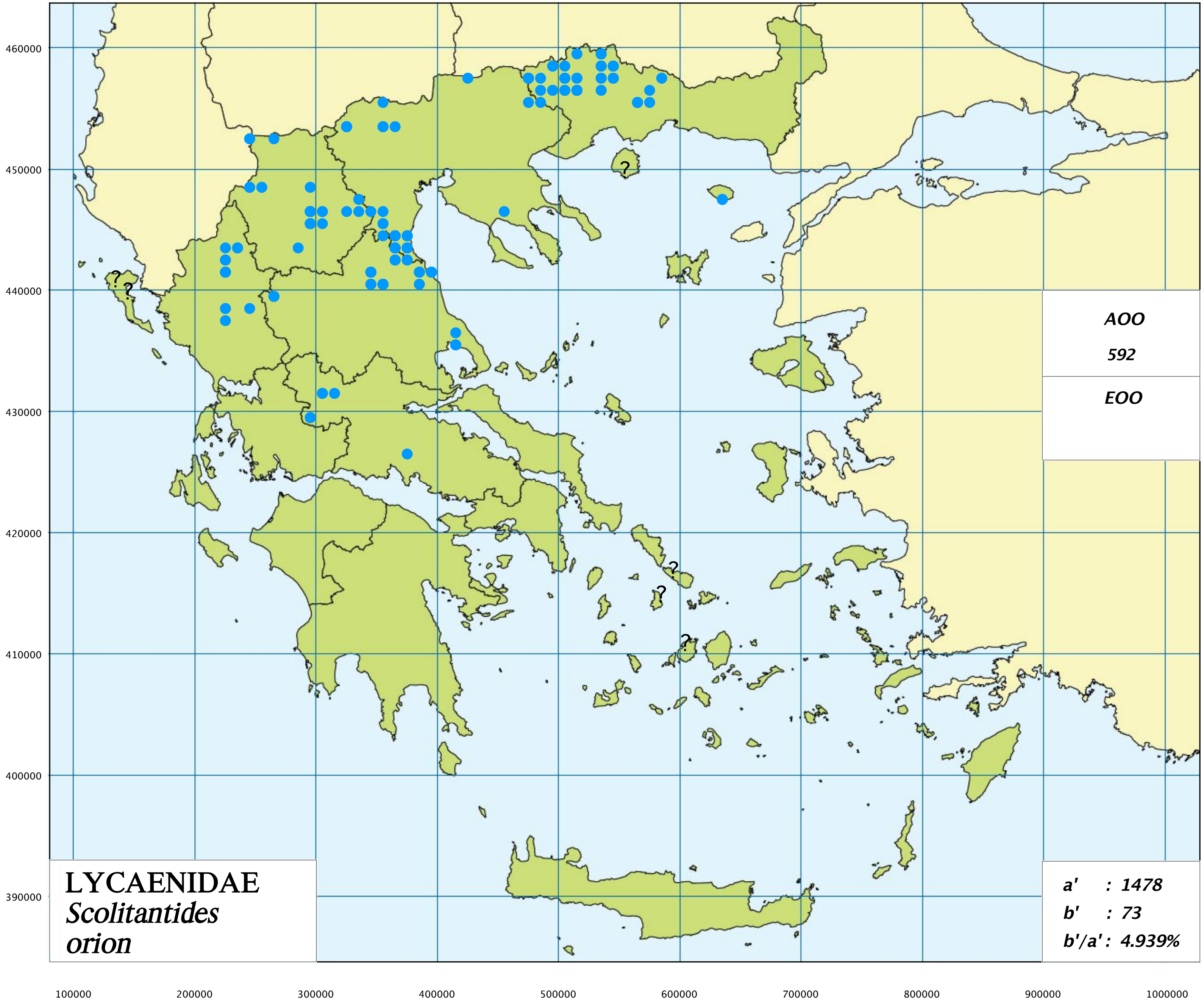


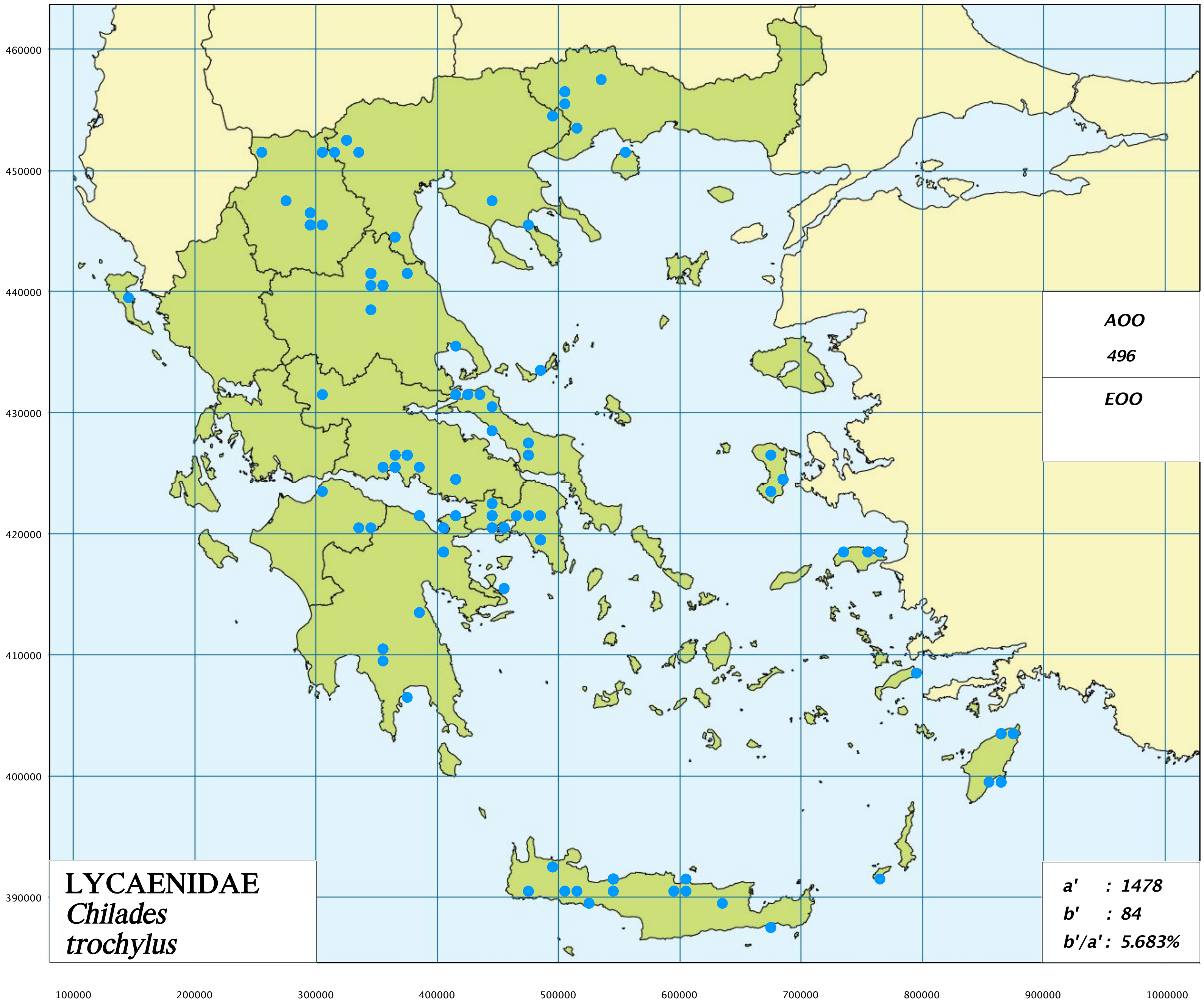
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
648
EOO
LYCAENIDAE
Maculinea arion
a' : 1478
b' : 70
b'/a' : 4.736%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
540
EOO
LYCAENIDAE
Iolana
iolas
a' : 1478
b' : 99
b'/a' : 6.698%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3188
EOO
a' : 1478
b' : 430
b'/a' : 29.09%
LYCAENIDAE
Pseudophilotes vicrama

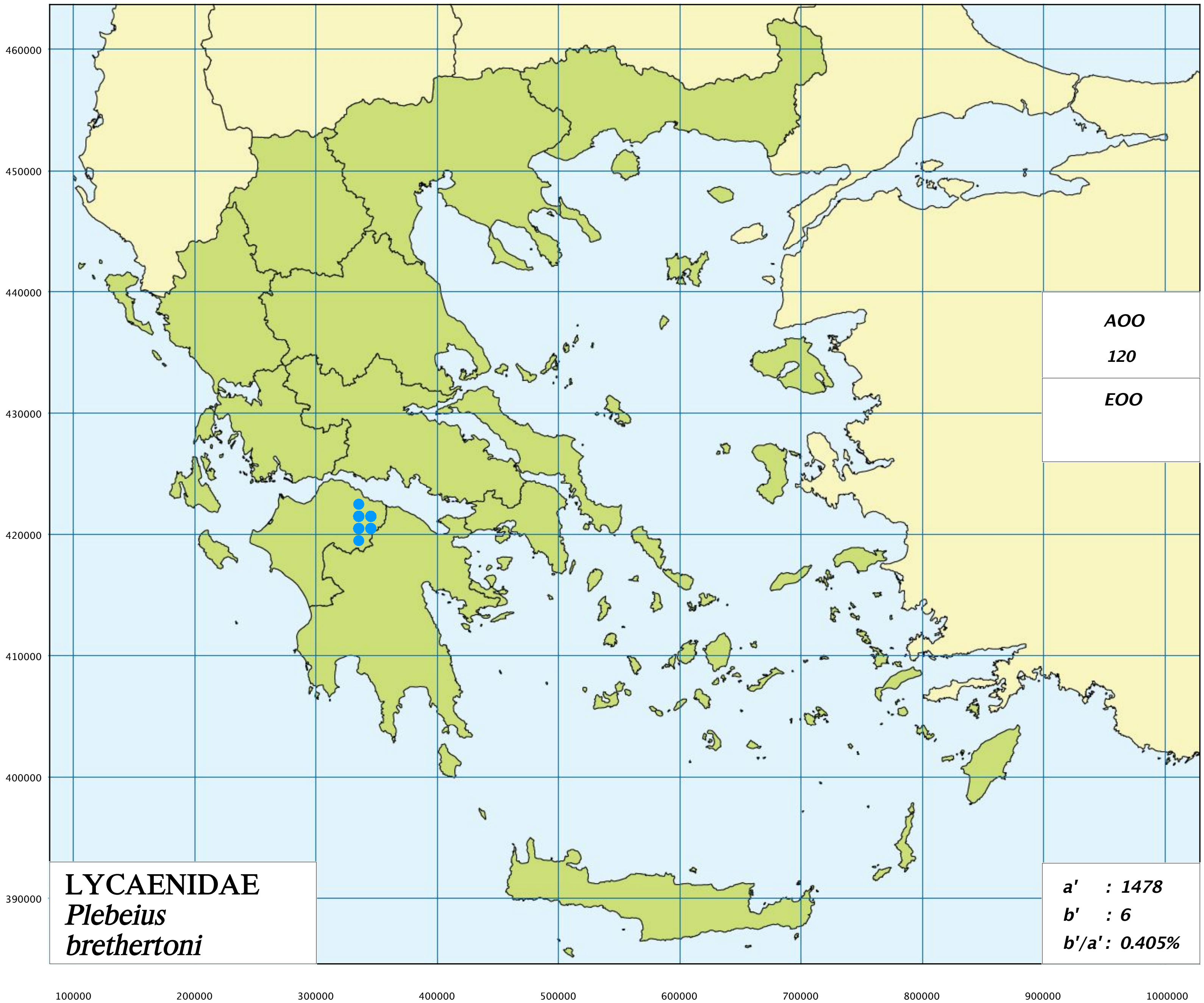

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
188
EOO
LYCAENIDAE
Pseudophilotes bavius
a' : 1478
b' : 24
b'/a' : 1.623%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
592
EOO
LYCAENIDAE
Scolitantides
orion
a' : 1478
b' : 73
b'/a' : 4.939%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
496
EOO
a' : 1478
b' : 84
b'/a' : 5.683%
LYCAENIDAE
Chilades
trochylus

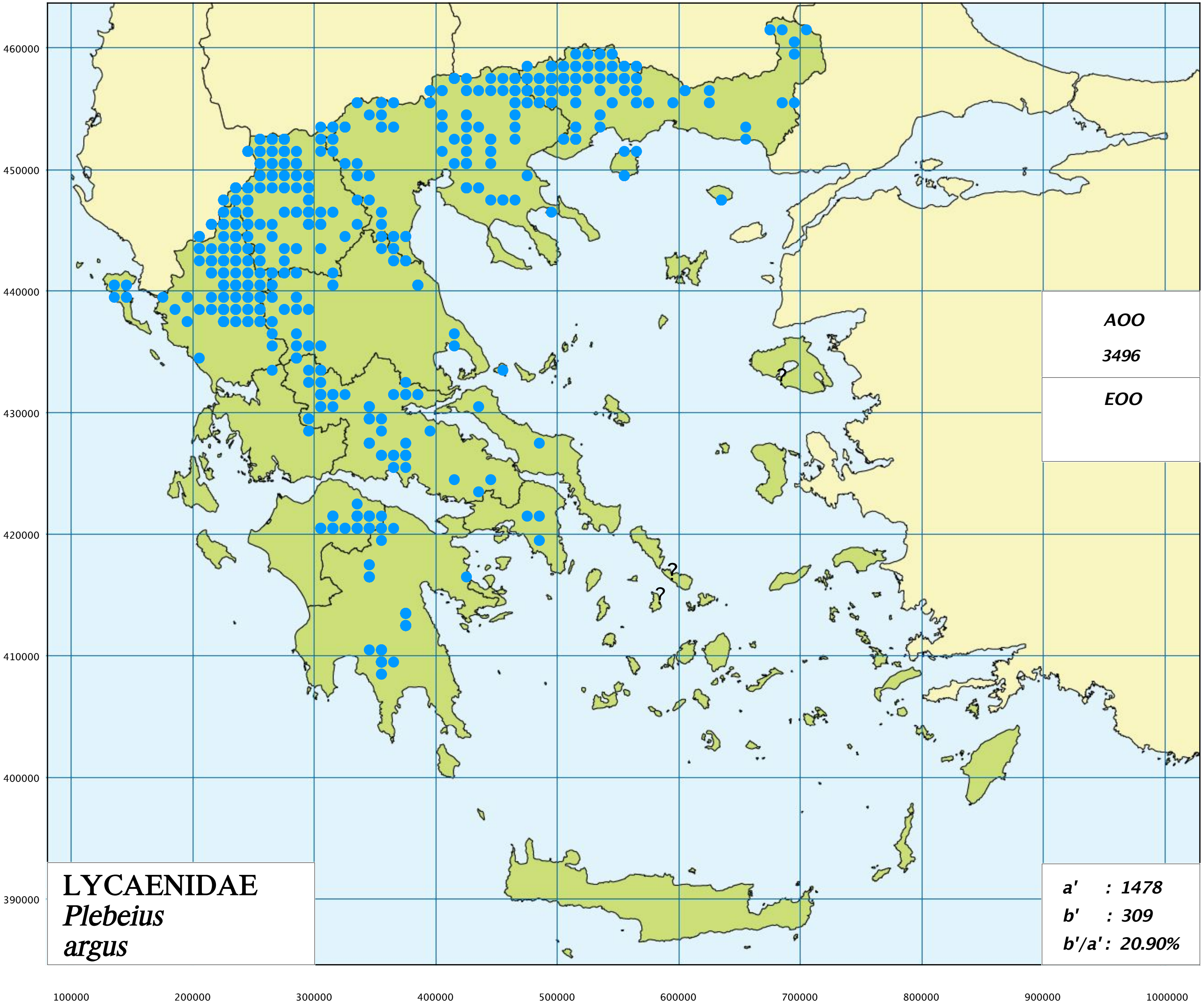
Plebeius pylaon and *Plebeius brethertoni* are synonymized by some authors

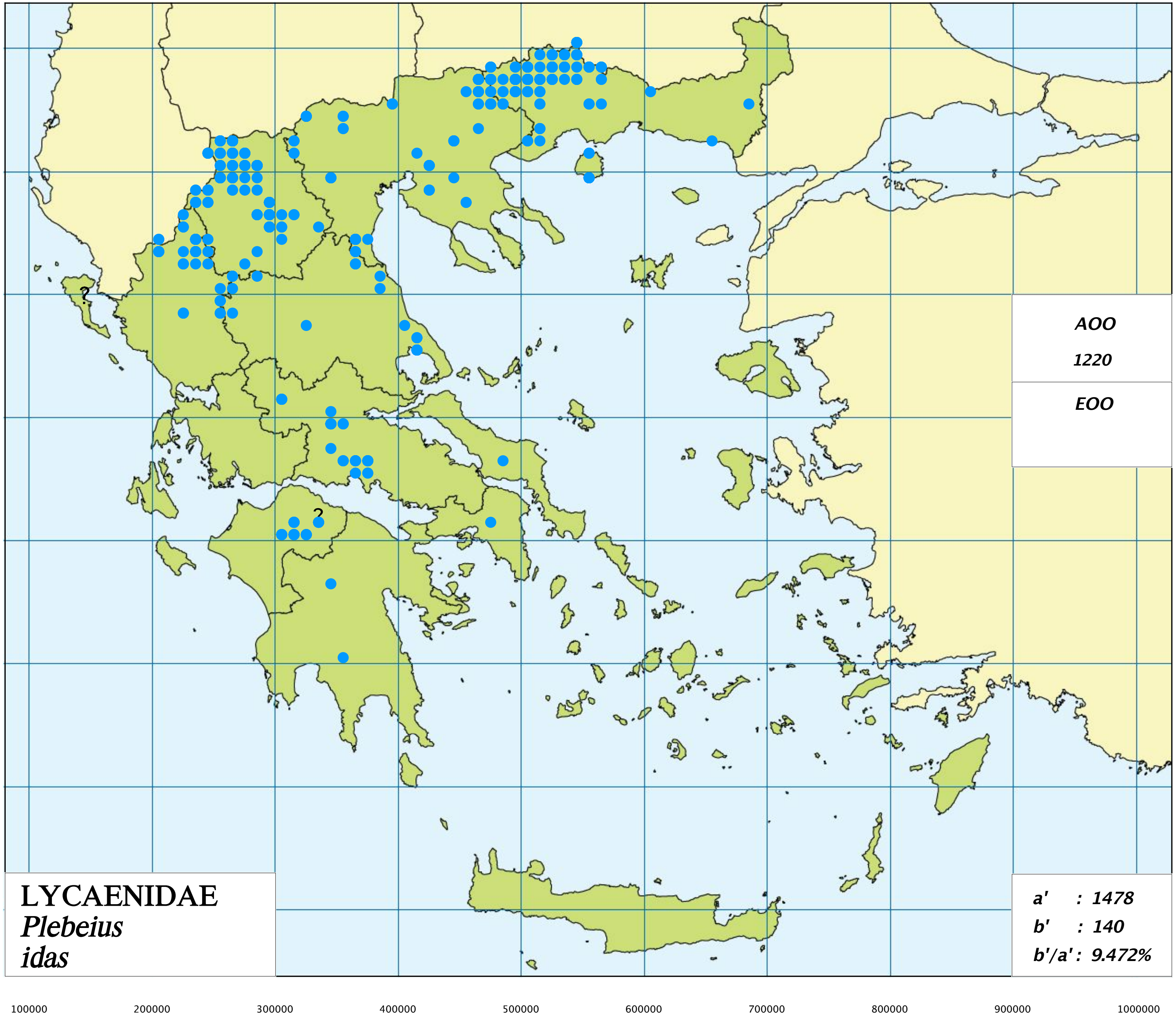
Plebeius pylaon και *Plebeius brethertoni* θεωρούνται συνώνυμα από ωρισμένους συγραφείς



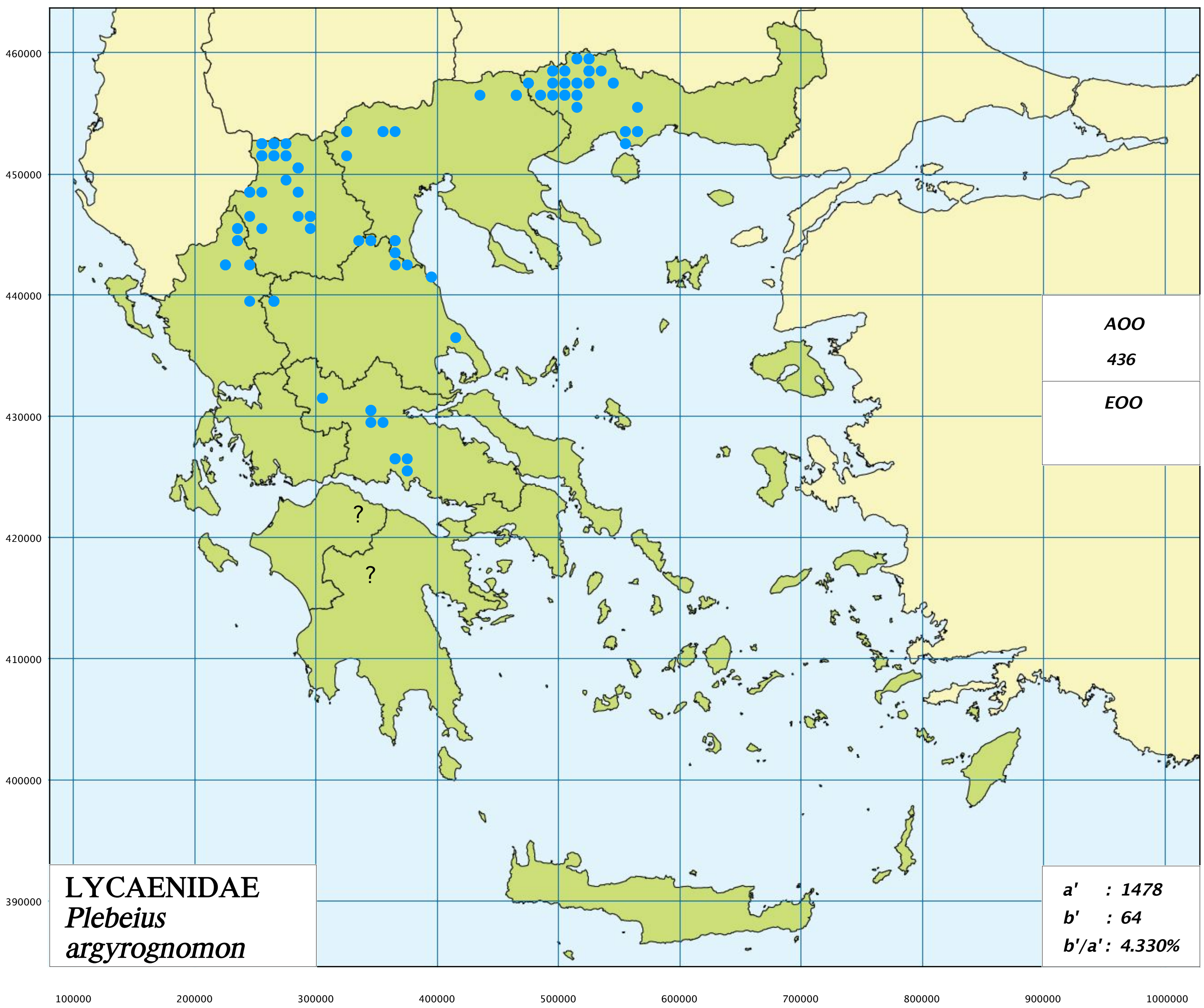
Plebeius pylaon and *Plebeius brethertoni* are synonymized by some authors

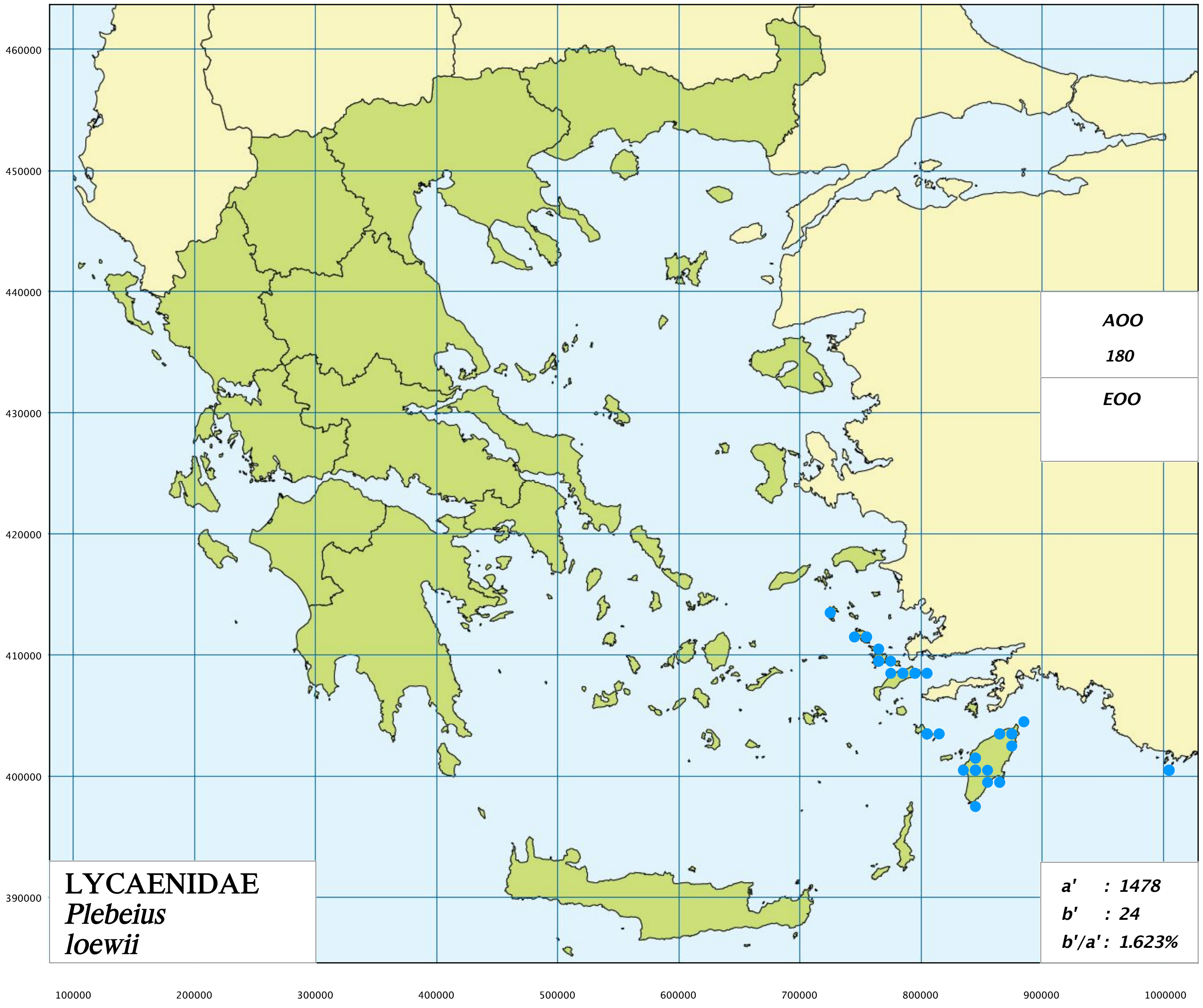
Plebeius pylaon και *Plebeius brethertoni* θεωρούνται συνώνυμα από ωρισμένους συγραφείς


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3496
EOO
LYCAENIDAE
Plebeius
argus
a' : 1478
b' : 309
b'/a' : 20.90%



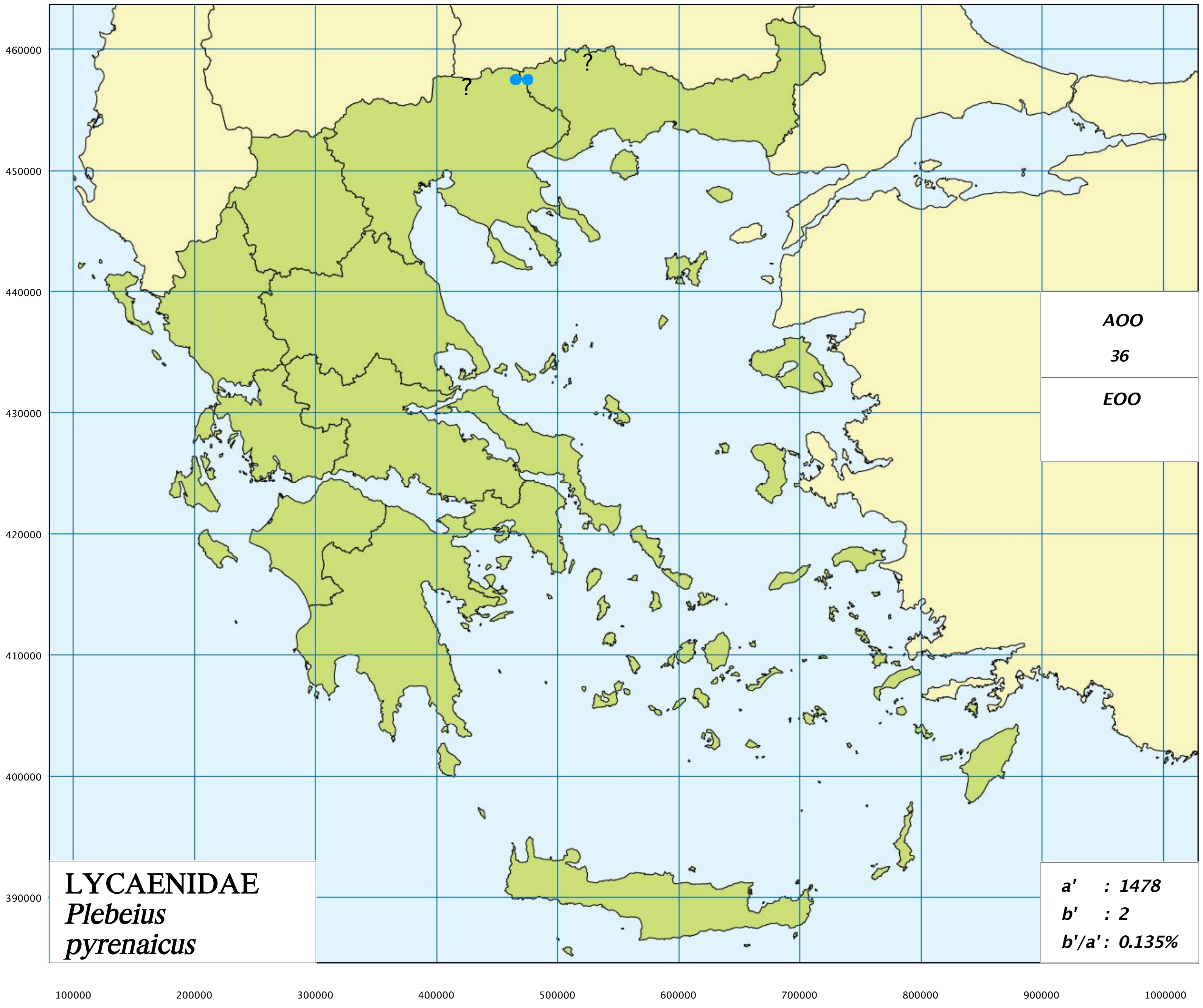
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
1220
EOO
LYCAENIDAE
Plebeius
idas
a' : 1478
b' : 140
b'/a' : 9.472%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
436
EOO
?
?
LYCAENIDAE
Plebeius argyrognomon
a' : 1478
b' : 64
b'/a' : 4.330%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
180
EOO
LYCAENIDAE
Plebeius
loewii
a' : 1478
b' : 24
b'/a' : 1.623%

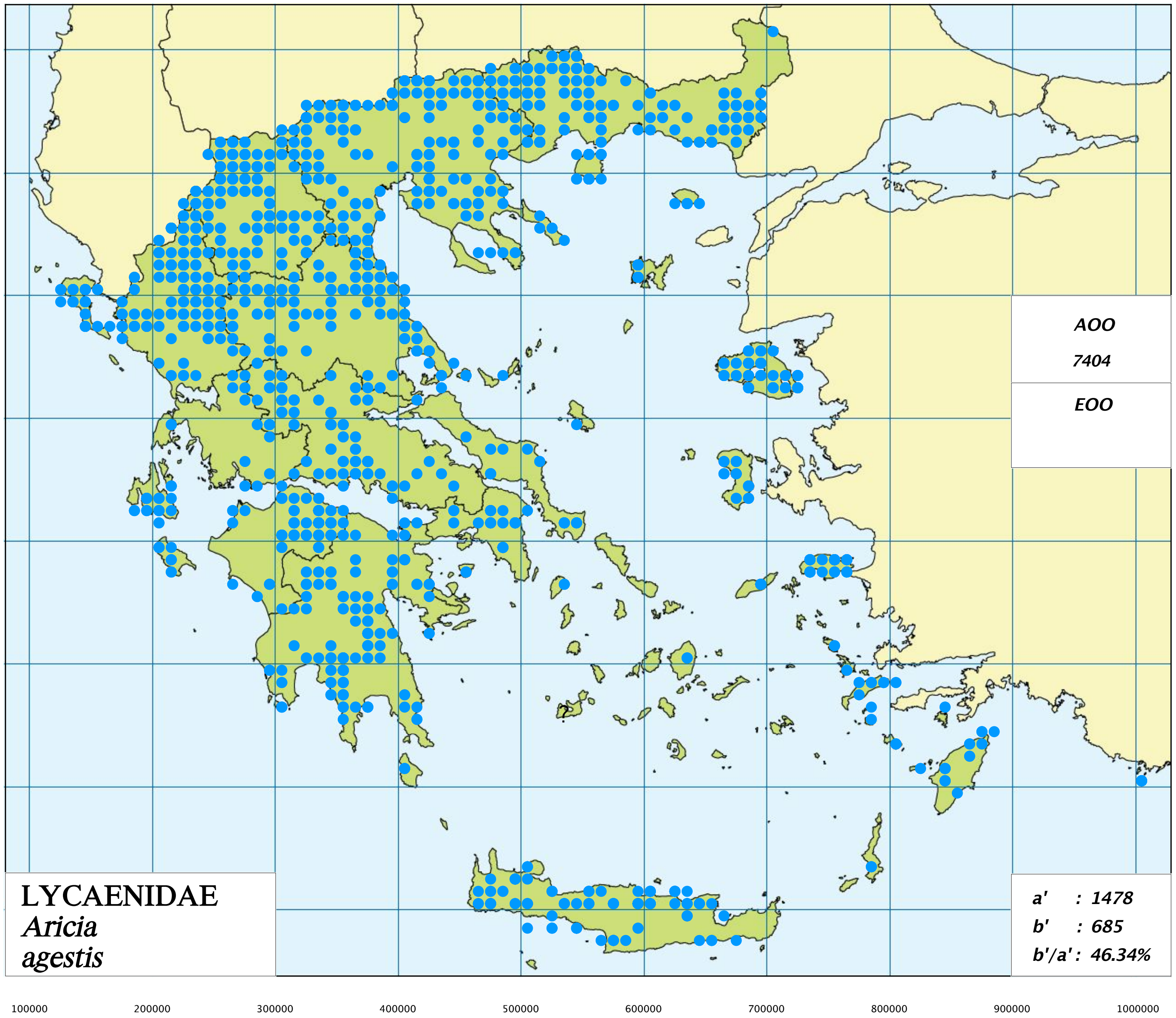
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
80
EOO
?
LYCAENIDAE
Plebeius psylorita
a' : 1478
b' : 7
b'/a' : 0.473%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
84
EOO
LYCAENIDAE
Plebeius eurypilus
a' : 1478
b' : 6
b'/a' : 0.405%

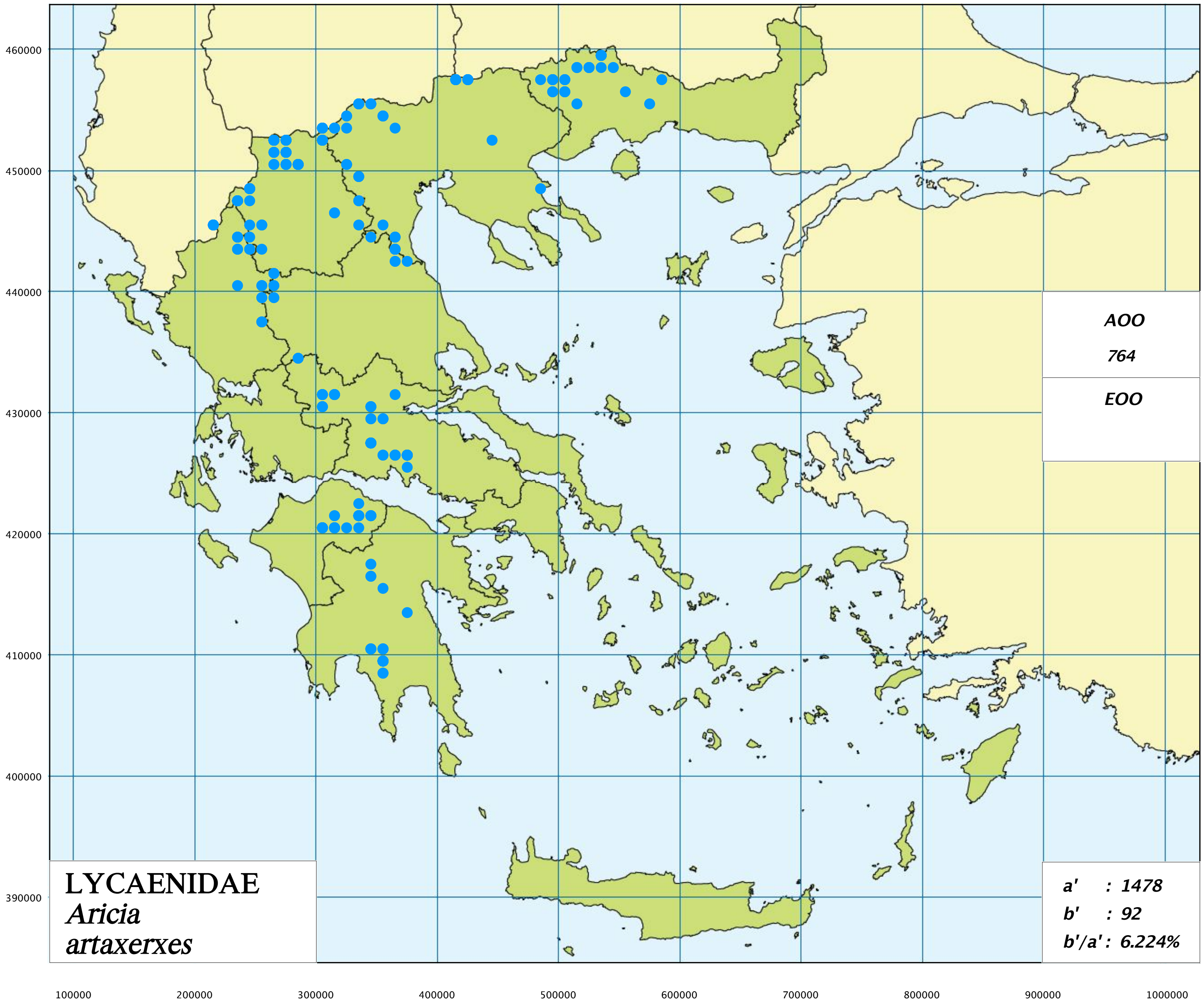


The name *Plebeius dardanus* is used by many authors

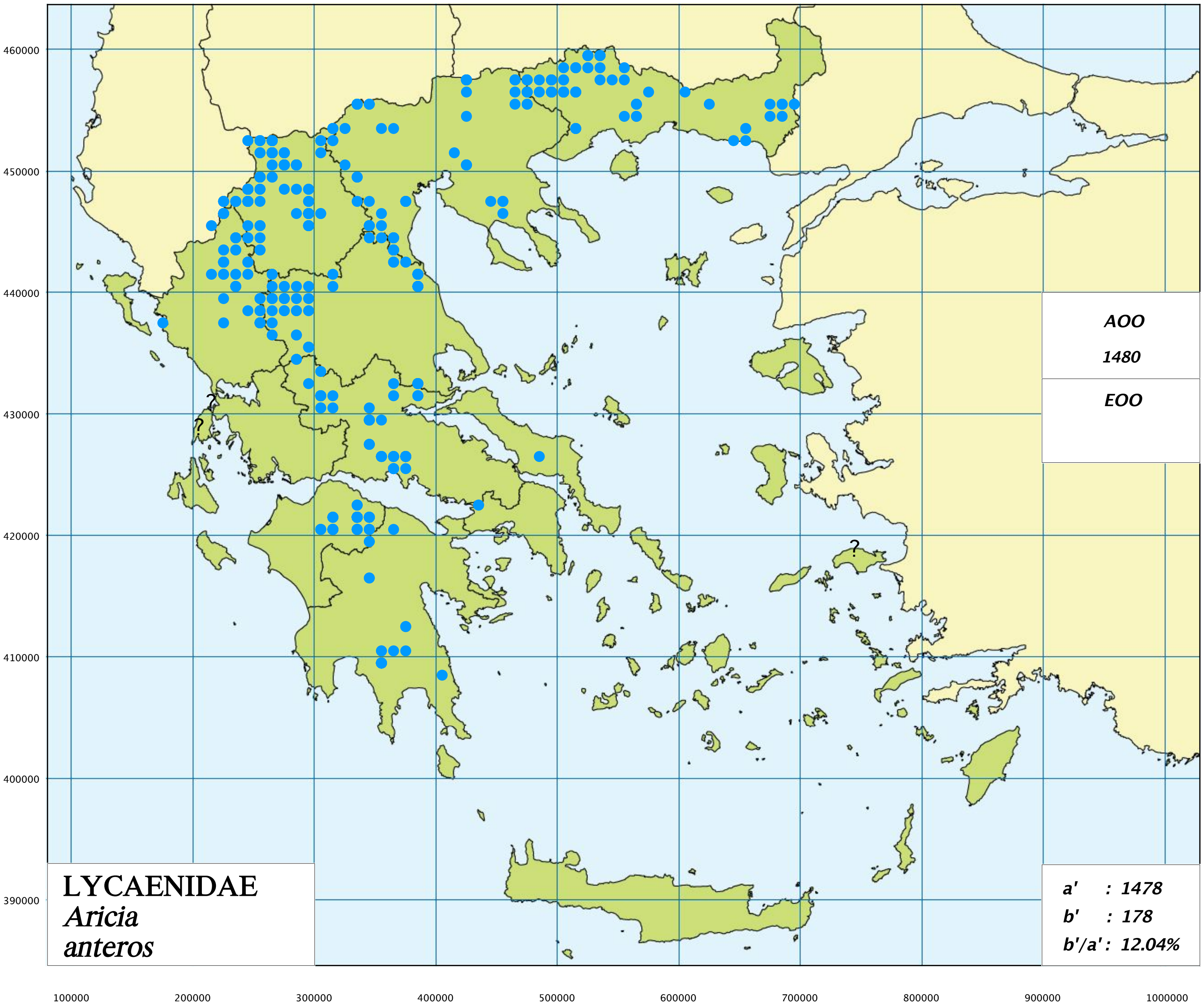
Το όνομα *Plebeius dardanus* χρησιμοποιείται από πολλούς συγγραφείς

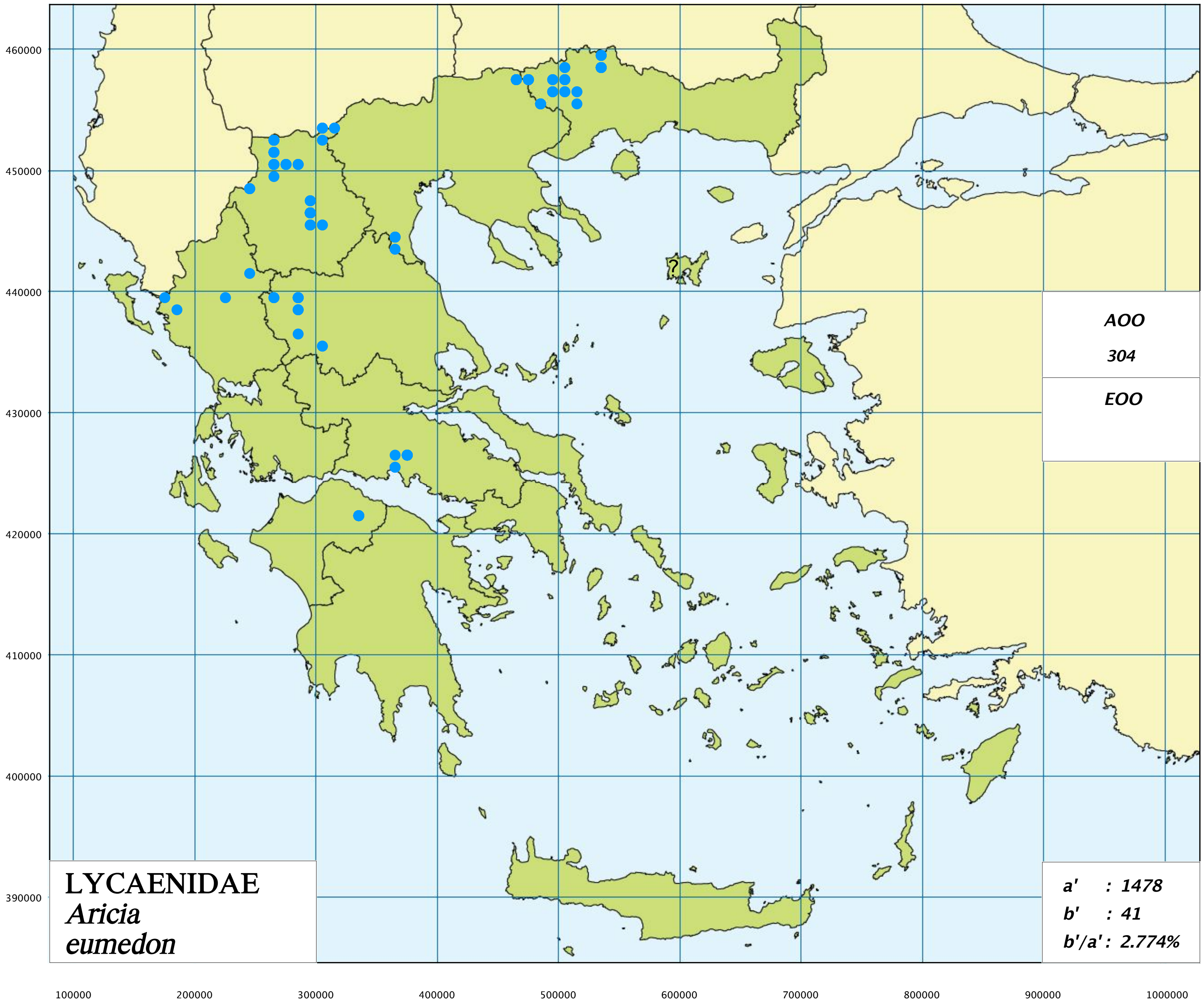


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
7404
EOO
LYCAENIDAE
Aricia
agestis
a' : 1478
b' : 685
b'/a' : 46.34%

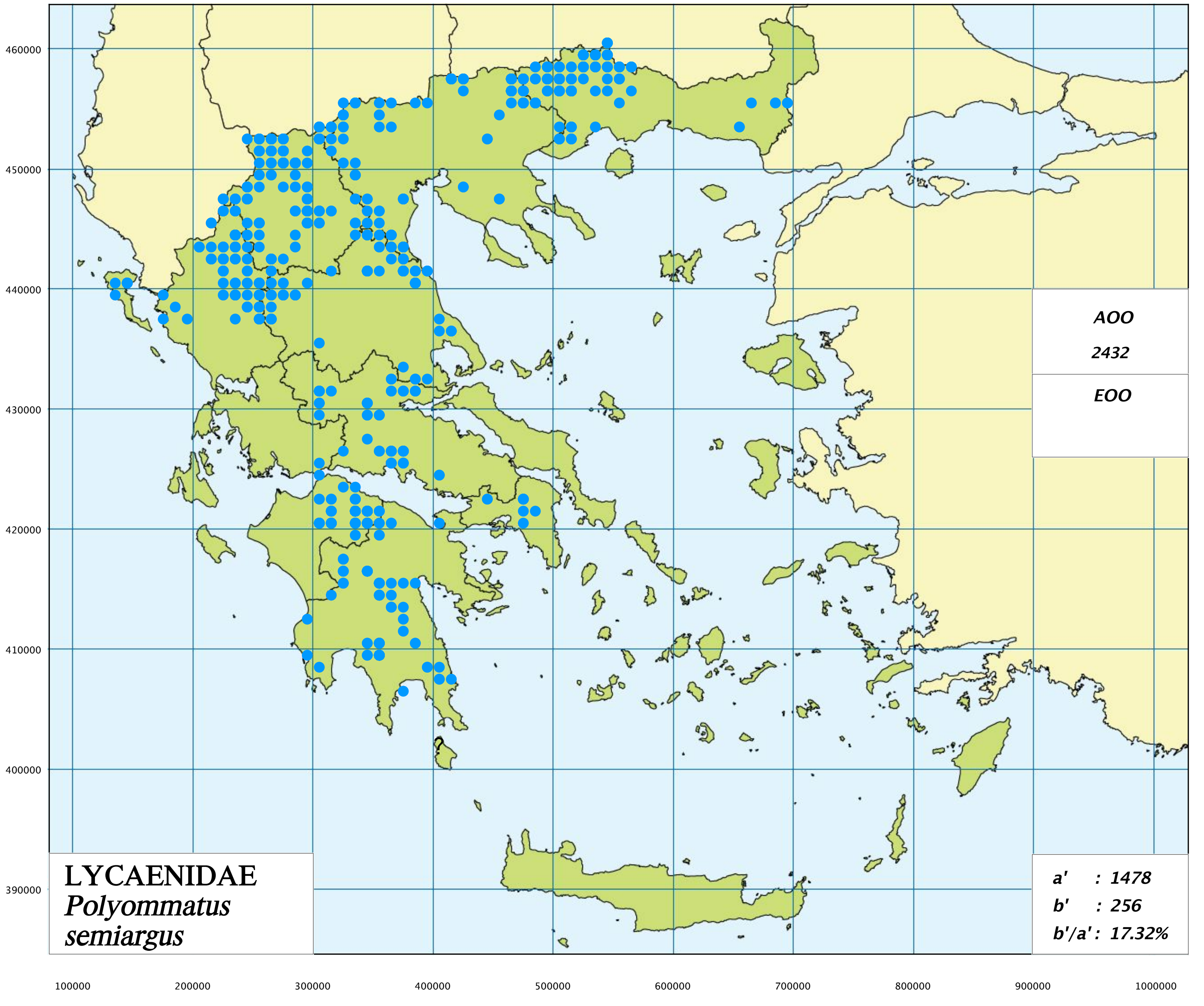


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
764
EOO
LYCAENIDAE
Aricia artaxerxes
a' : 1478
b' : 92
b'/a' : 6.224%

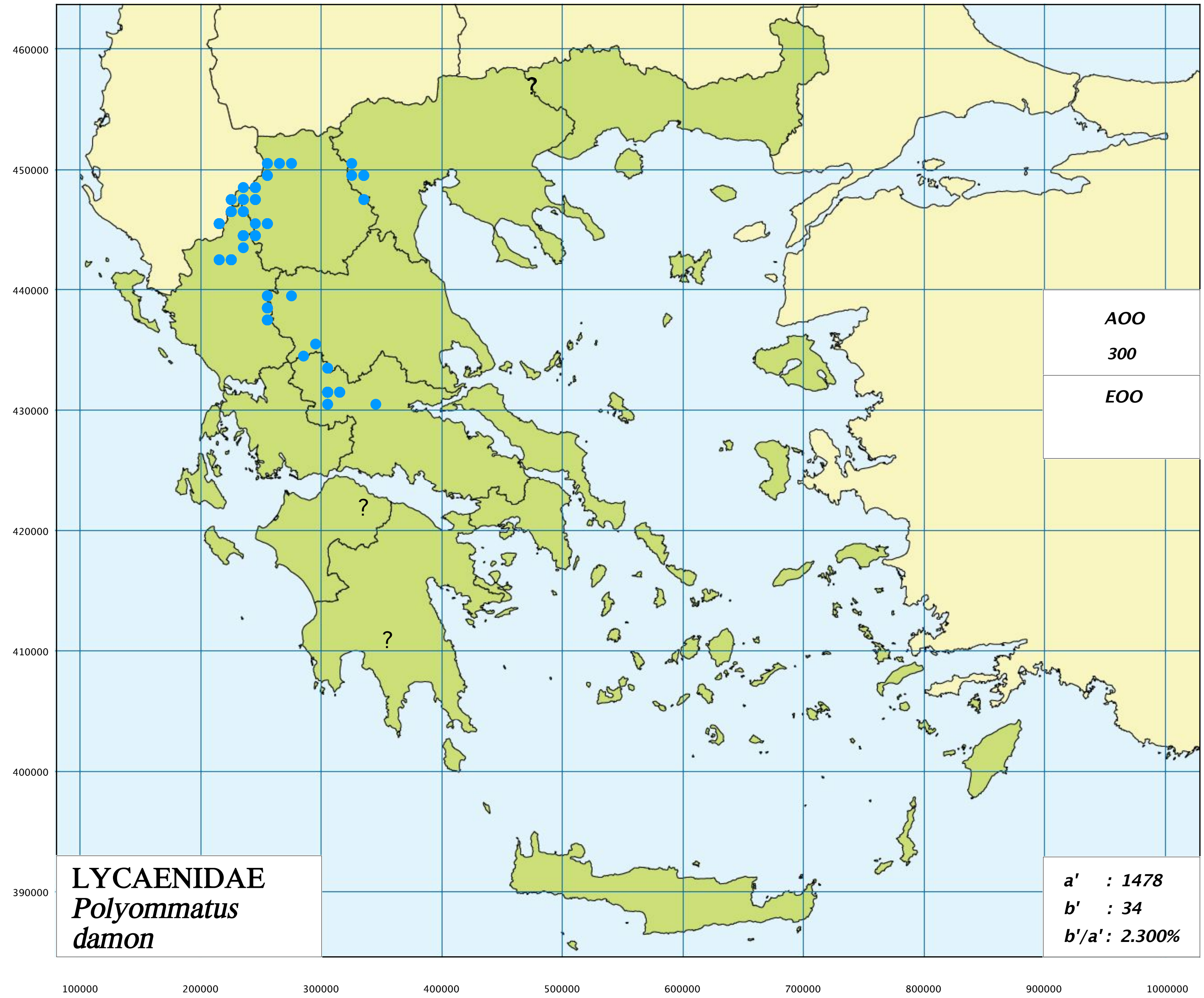

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
1480
EOO
LYCAENIDAE
Aricia
anteros
a' : 1478
b' : 178
b'/a' : 12.04%



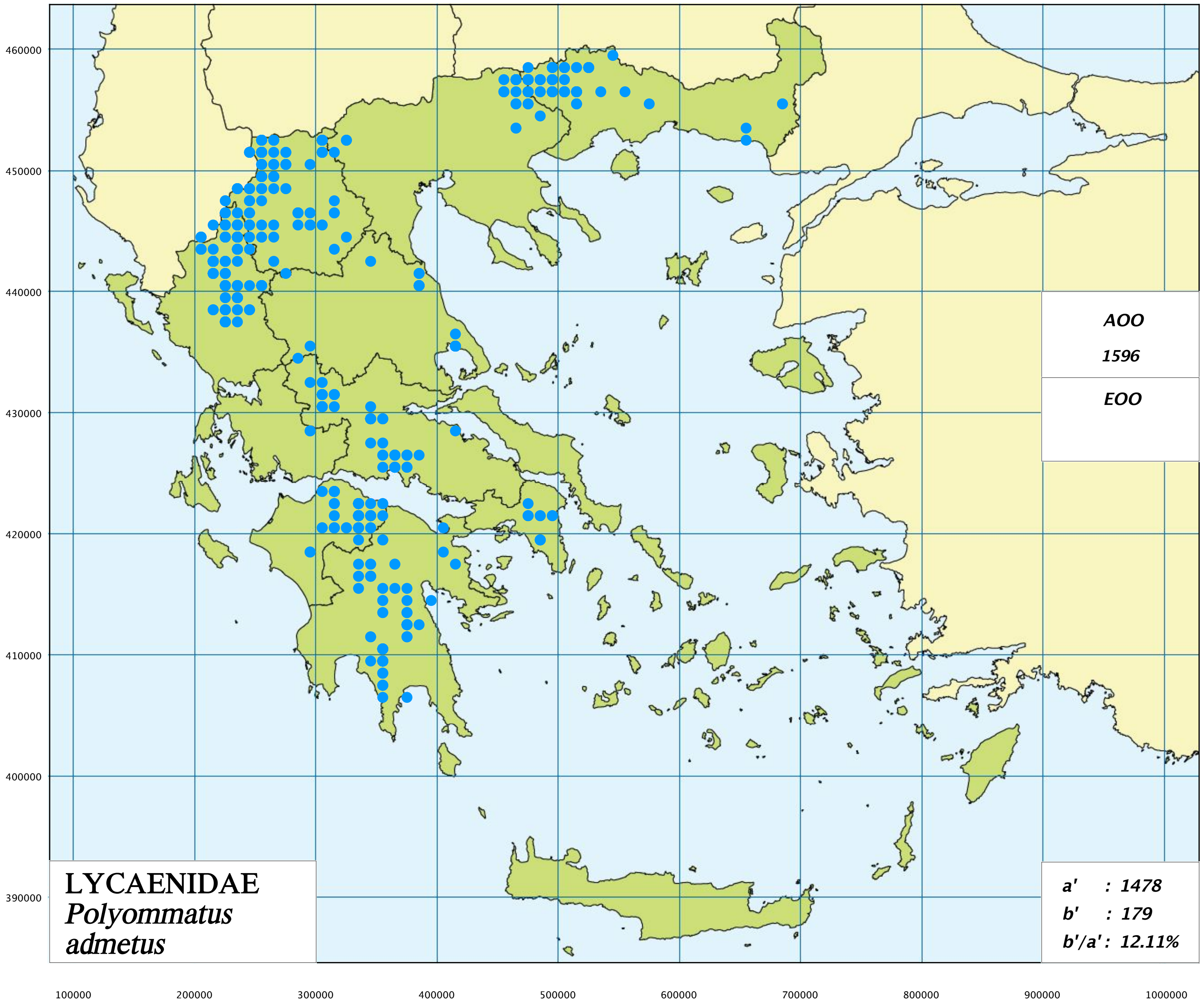
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
304
EOO
LYCAENIDAE
Aricia
eumedon
a' : 1478
b' : 41
b'/a' : 2.774%



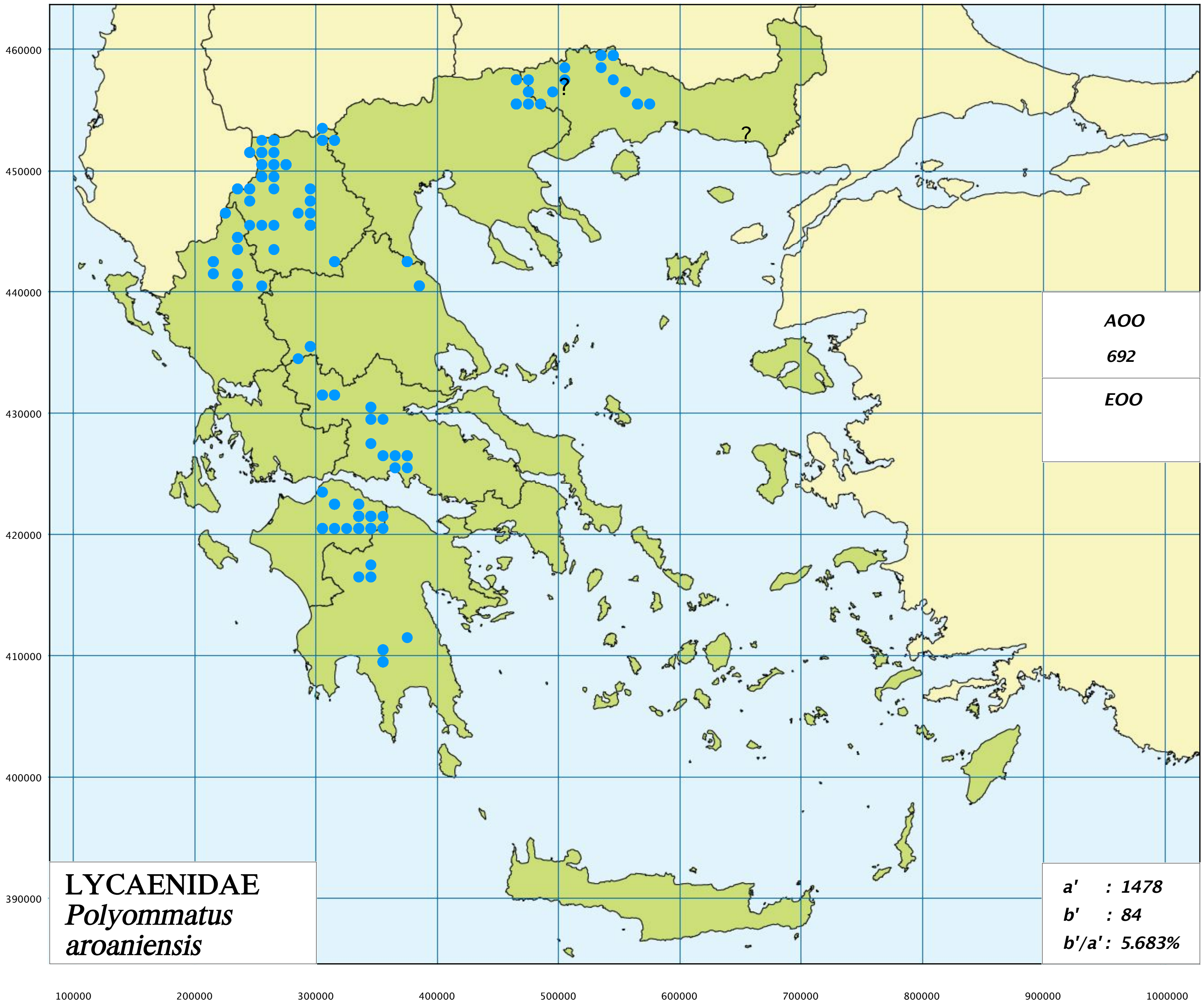
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2432
EOO
LYCAENIDAE
Polyommatus
semiargus
a' : 1478
b' : 256
b'/a' : 17.32%

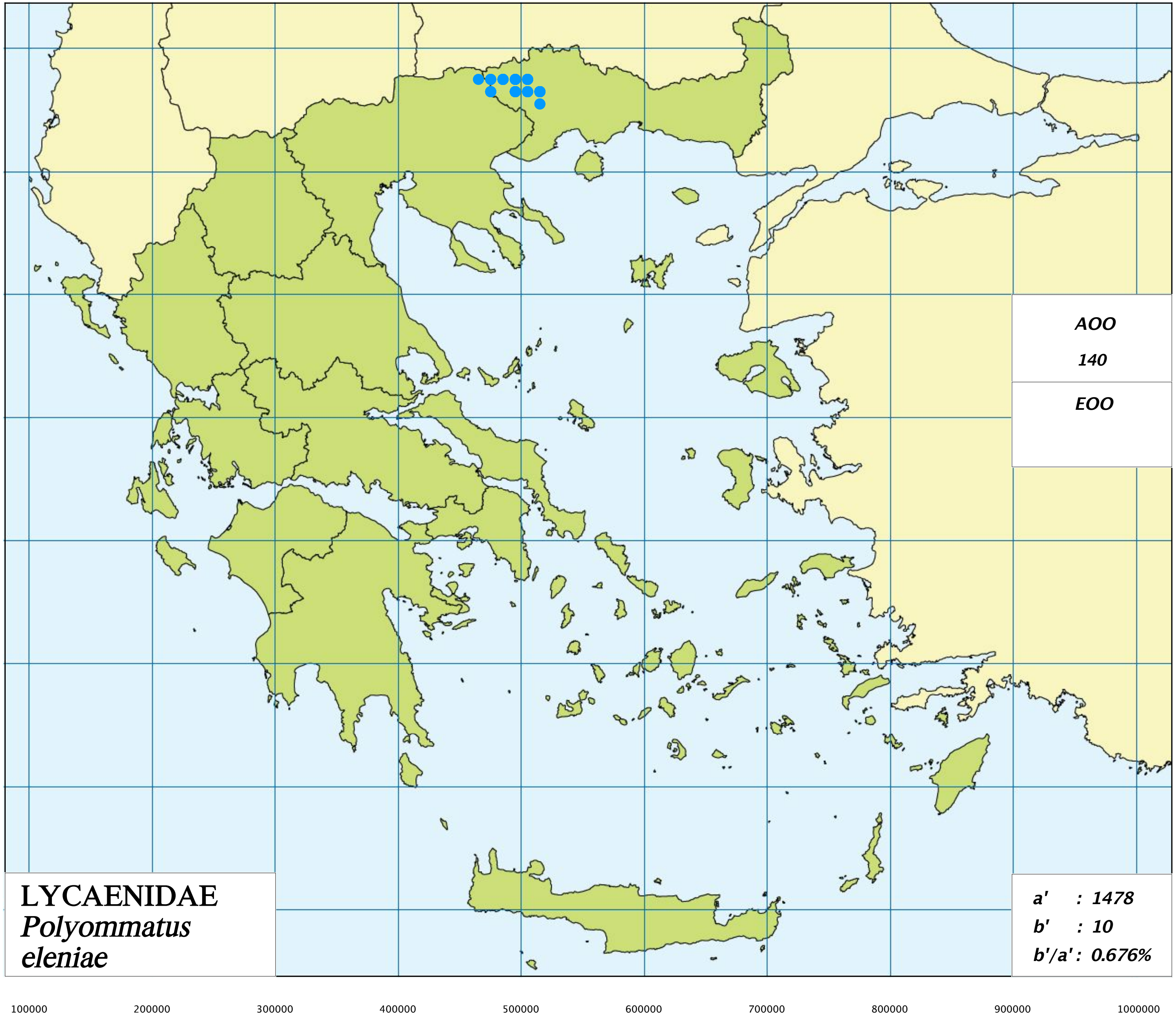

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
300
EOO
LYCAENIDAE
Polyommatus
damon
a' : 1478
b' : 34
b'/a' : 2.300%

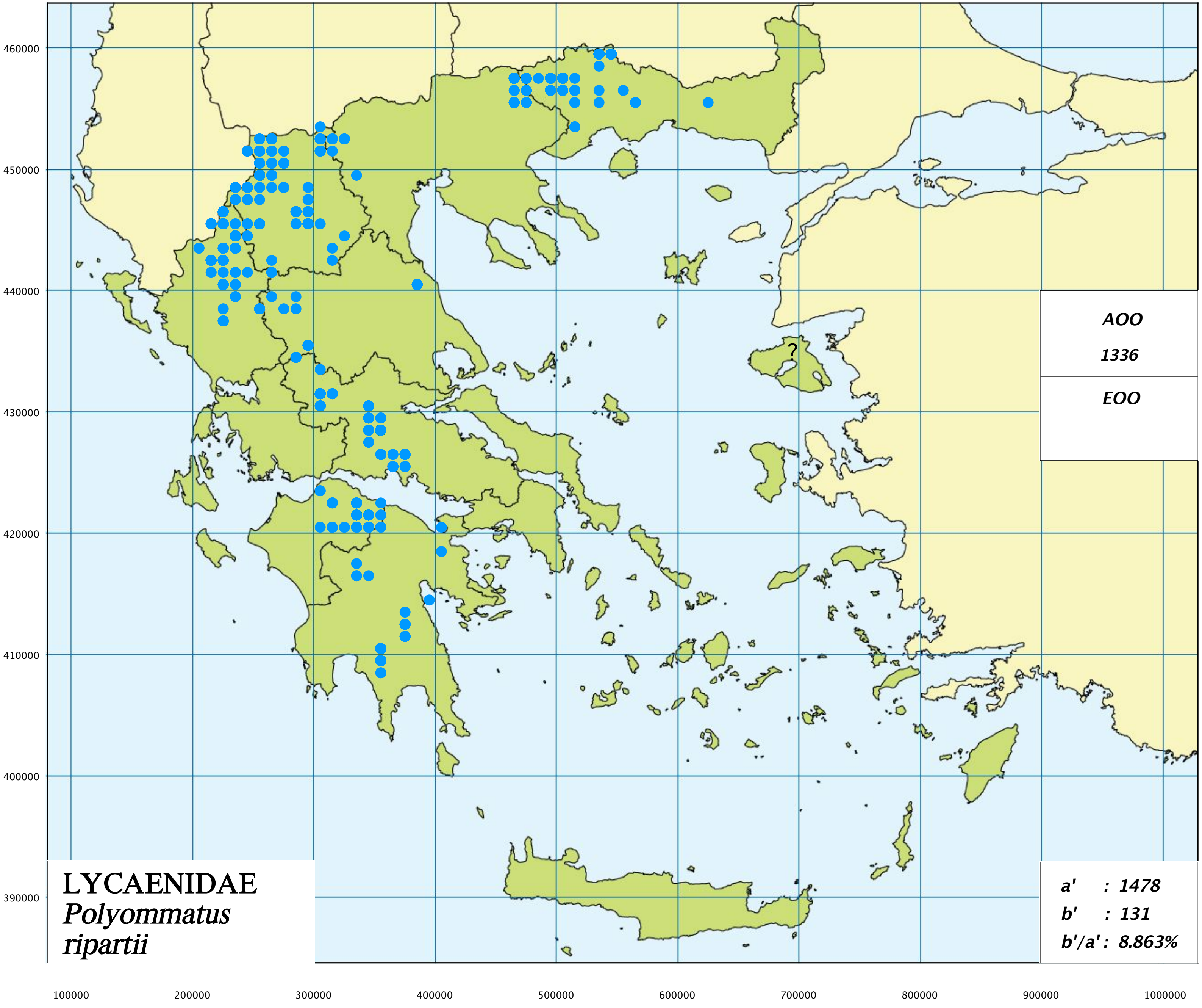
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
68
EOO
LYCAENIDAE
Polyommatus iphigenia
a' : 1478
b' : 5
b'/a' : 0.338%



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1596
EOO
LYCAENIDAE
Polyommatus admetus
a' : 1478
b' : 179
b'/a' : 12.11%


460000
450000
440000
430000
420000
410000
400000
390000
?
?
AOO
692
EOO
LYCAENIDAE
Polyommatus
aroaniensis
a' : 1478
b' : 84
b'/a' : 5.683%
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

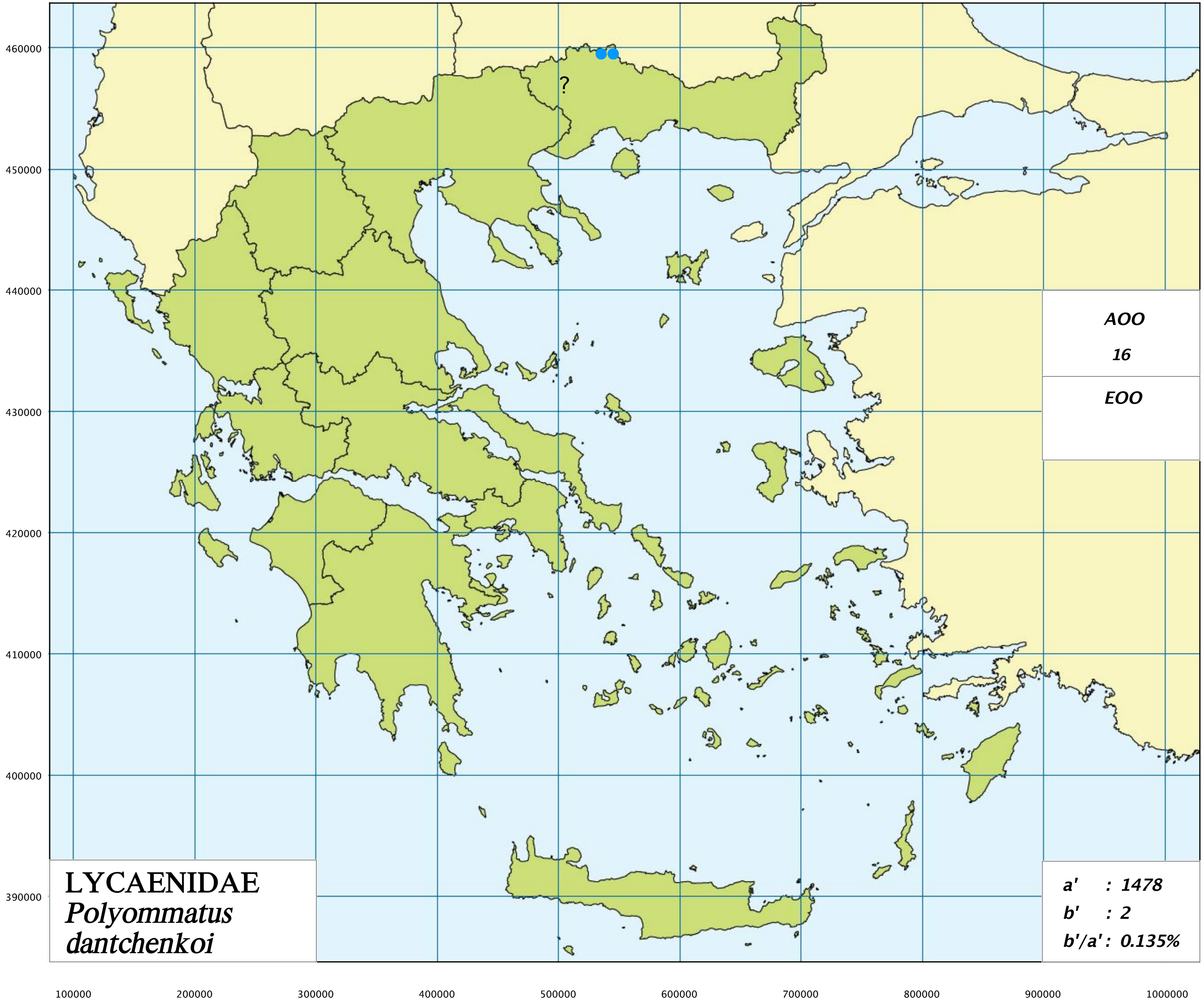

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
140
EOO
LYCAENIDAE
Polyommatus
eleniae
a' : 1478
b' : 10
b'/a' : 0.676%



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1336
EOO
LYCAENIDAE
Polyommatus ripartii
a' : 1478
b' : 131
b'/a' : 8.863%

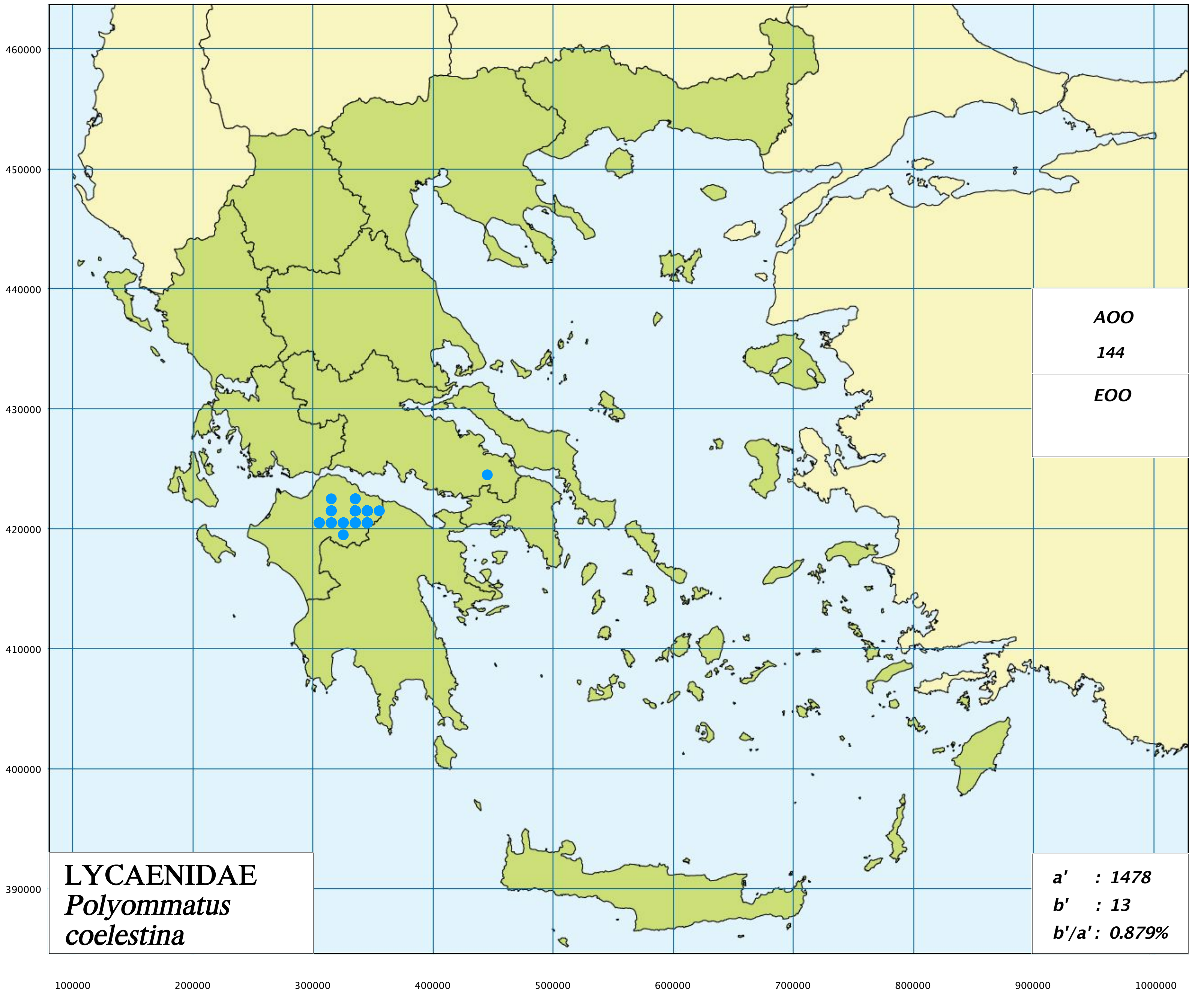
Polyommatus timfristos found in Mt. Parnassos and Mt. Timfristos (see in VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. https://doi.org/10.3897/CompCytogen.v10i5.10944)

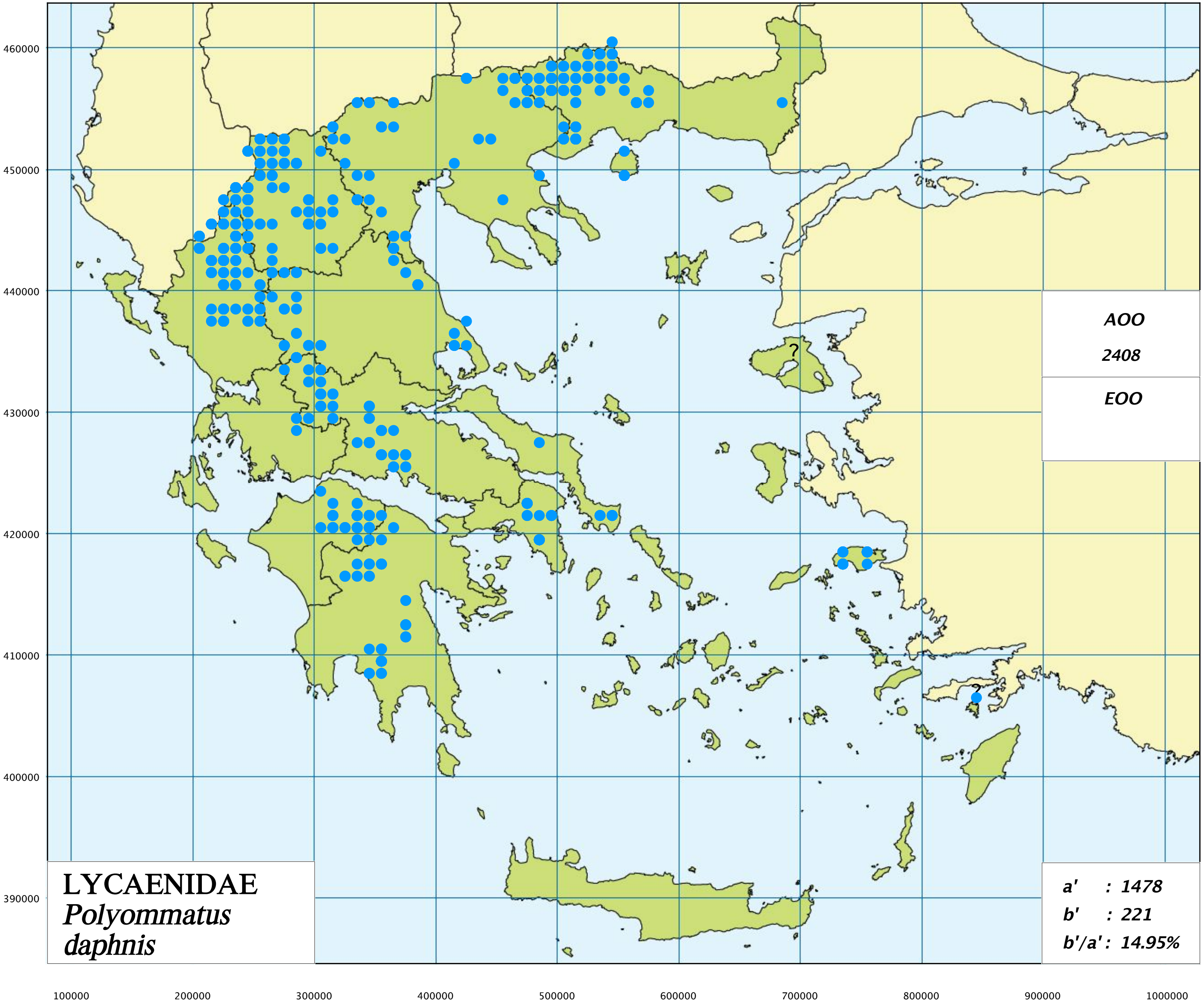
Το *Polyommatus timfristos* βρέθηκε στον Τυμφρηστό και τον Παρνασσό (δες στο VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. https://doi.org/10.3897/CompCytogen.v10i5.10944)



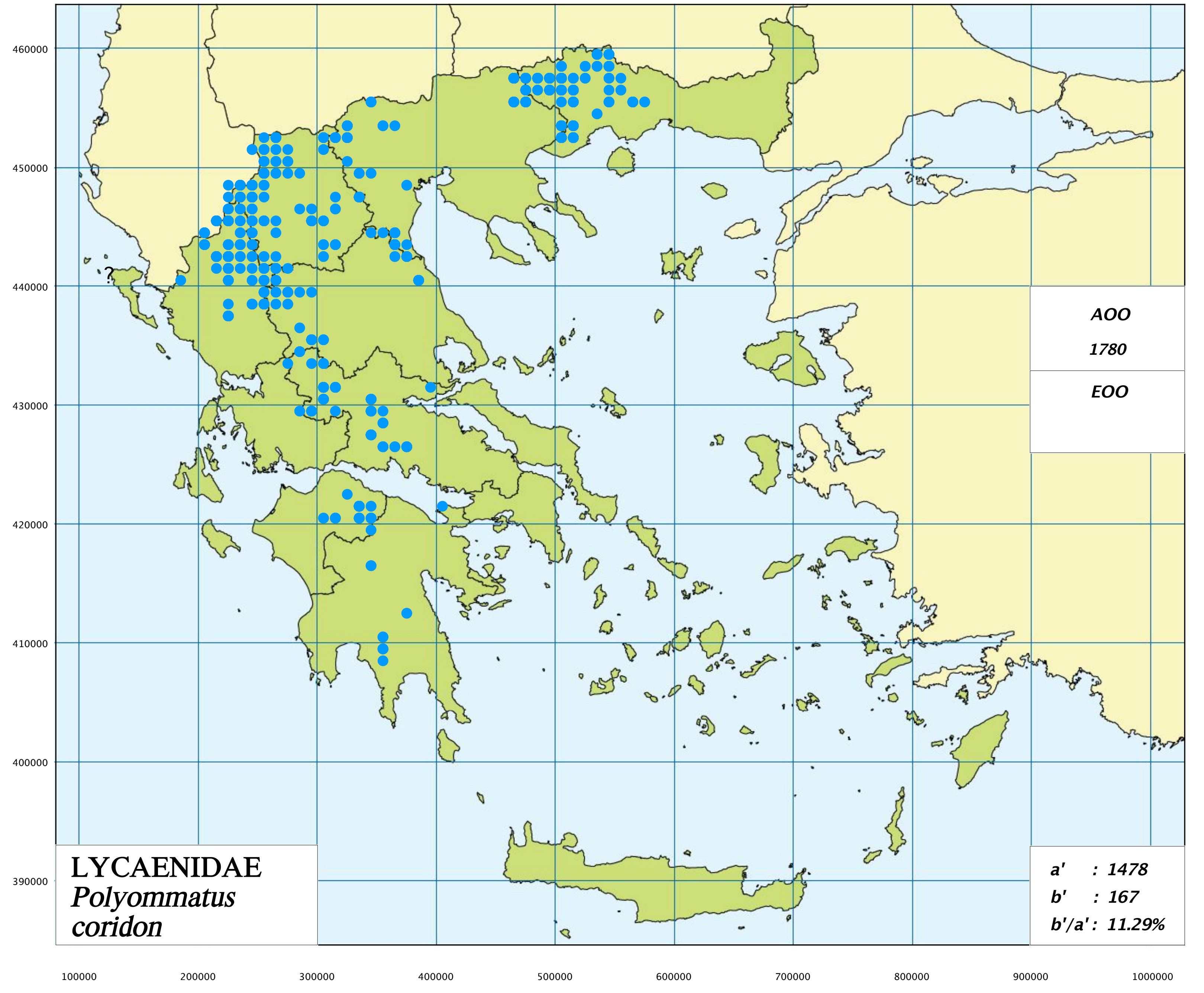
The name *Polyommatus orphicus* is used by many authors
Το όνομα *Polyommatus orphicus* χρησιμοποιείται από πολλούς συγγραφείς

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
172
EOO
LYCAENIDAE
Polyommatus
nephohiptamenos
a' : 1478
b' : 17
b'/a' : 1.150%

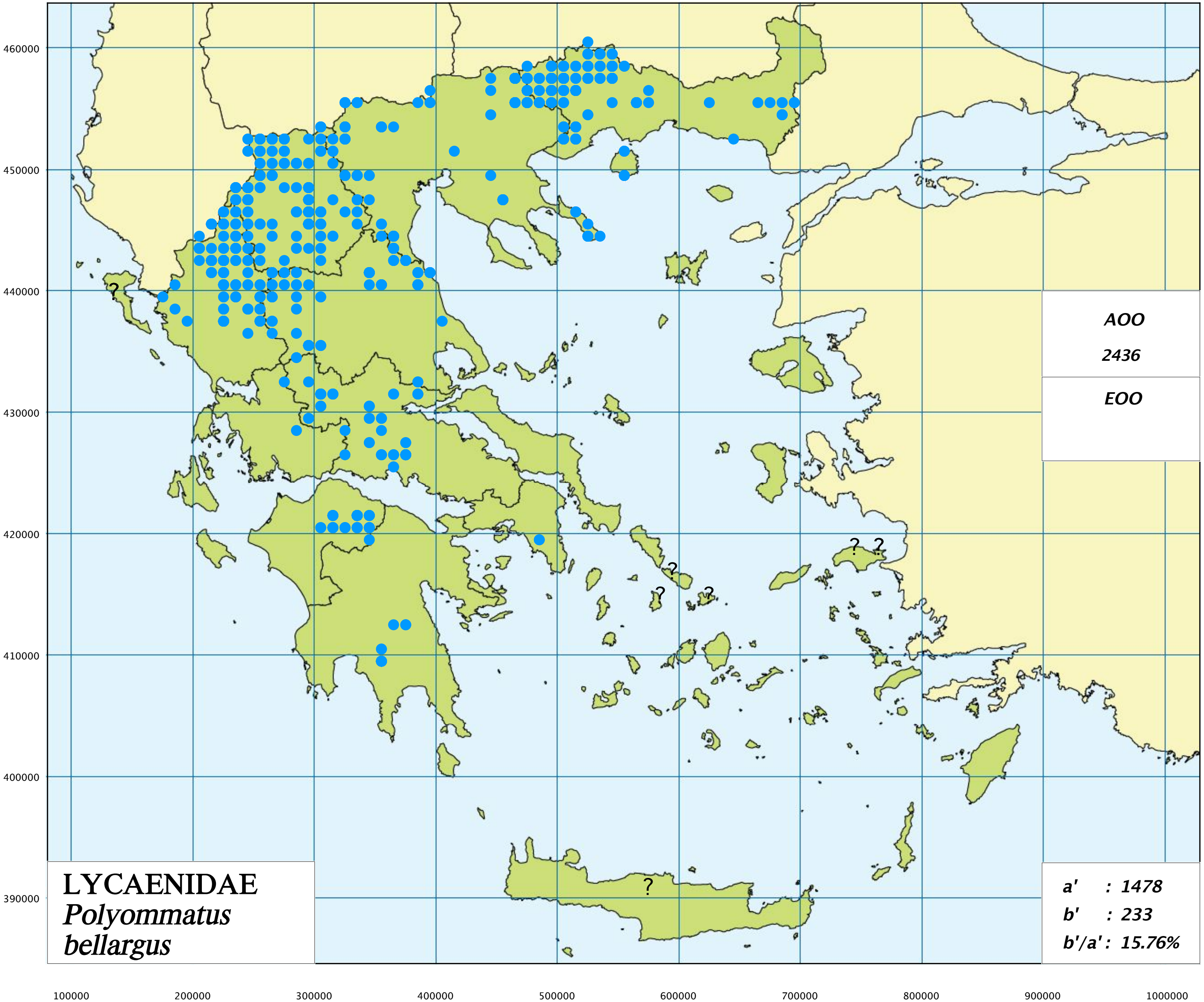

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
144
EOO
LYCAENIDAE
Polyommatus coelestina
a' : 1478
b' : 13
b'/a' : 0.879%



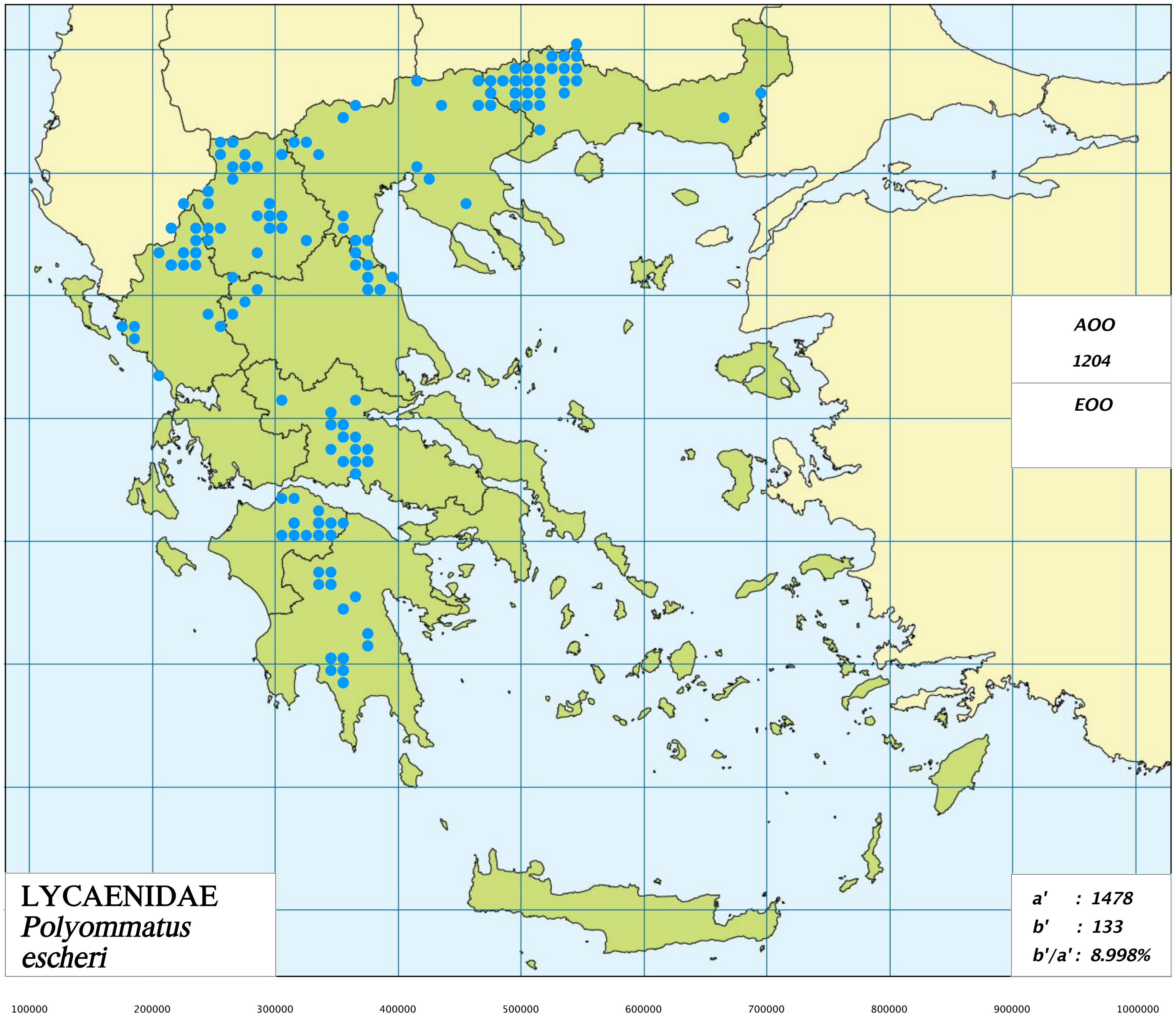
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2408
EOO
a' : 1478
b' : 221
b'/a' : 14.95%
LYCAENIDAE
Polyommatus daphnis

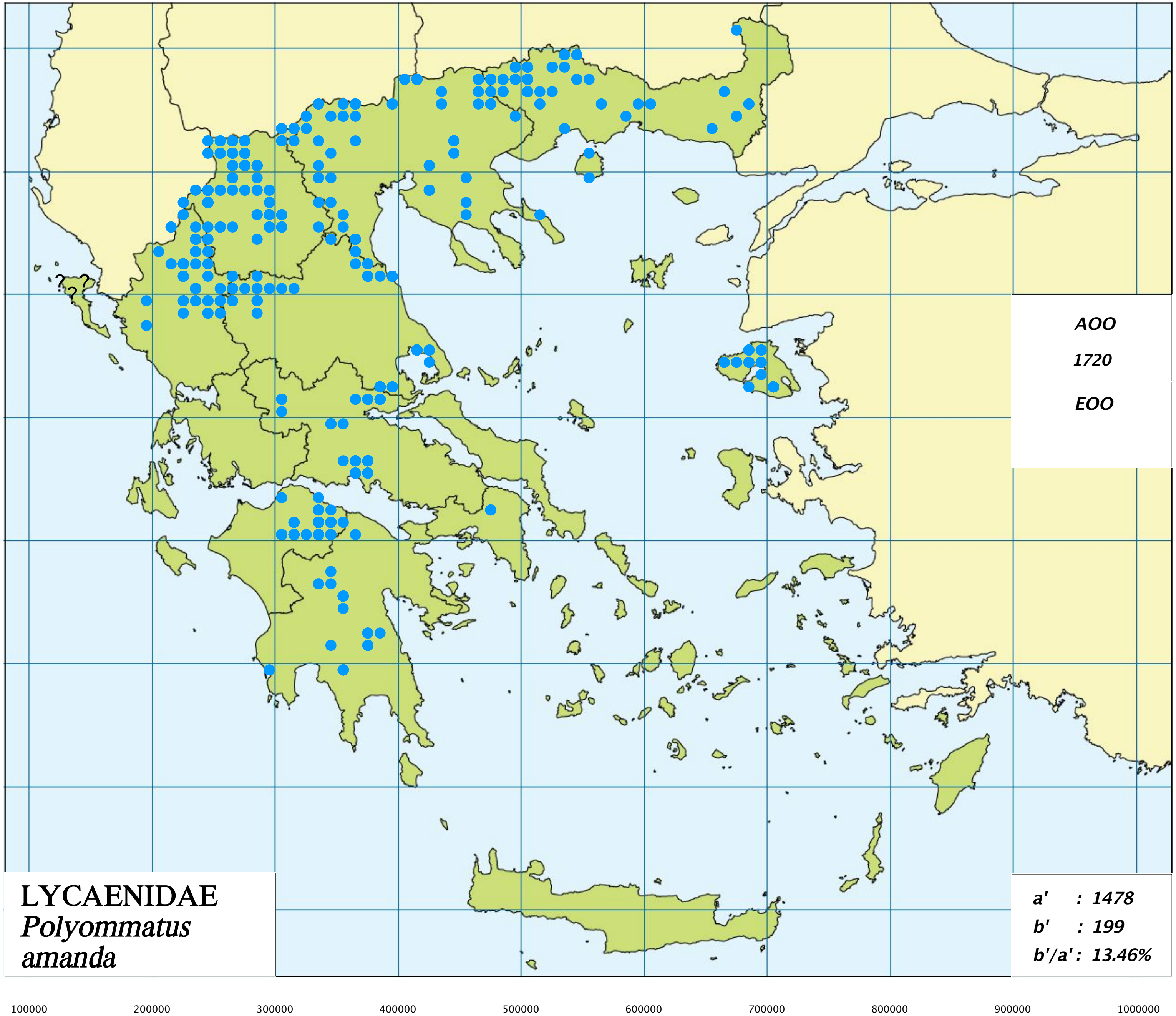


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1780
EOO
LYCAENIDAE
Polyommatus
coridon
a' : 1478
b' : 167
b'/a' : 11.29%

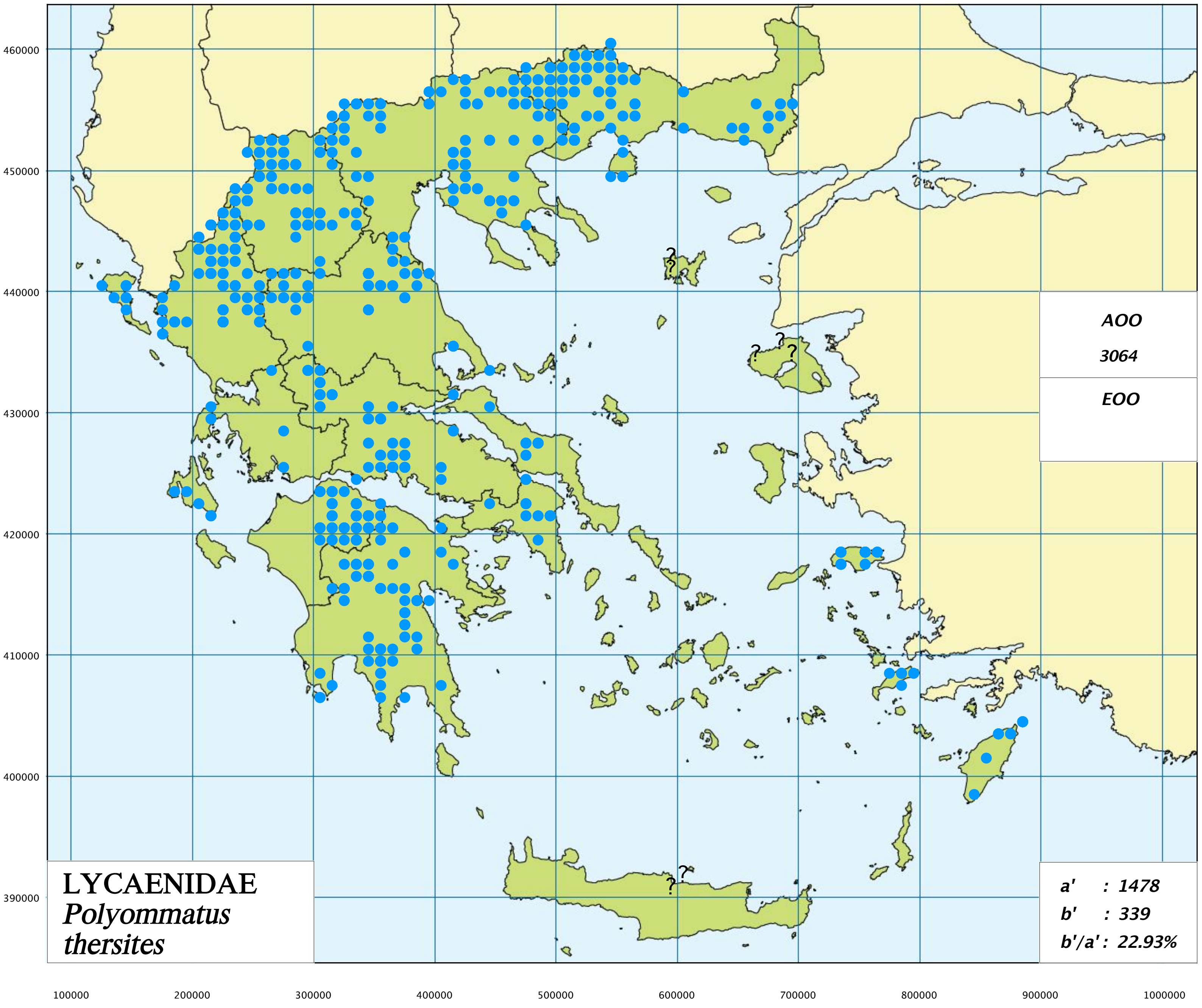


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2436
EOO
LYCAENIDAE
Polyommatus bellargus
a' : 1478
b' : 233
b'/a' : 15.76%

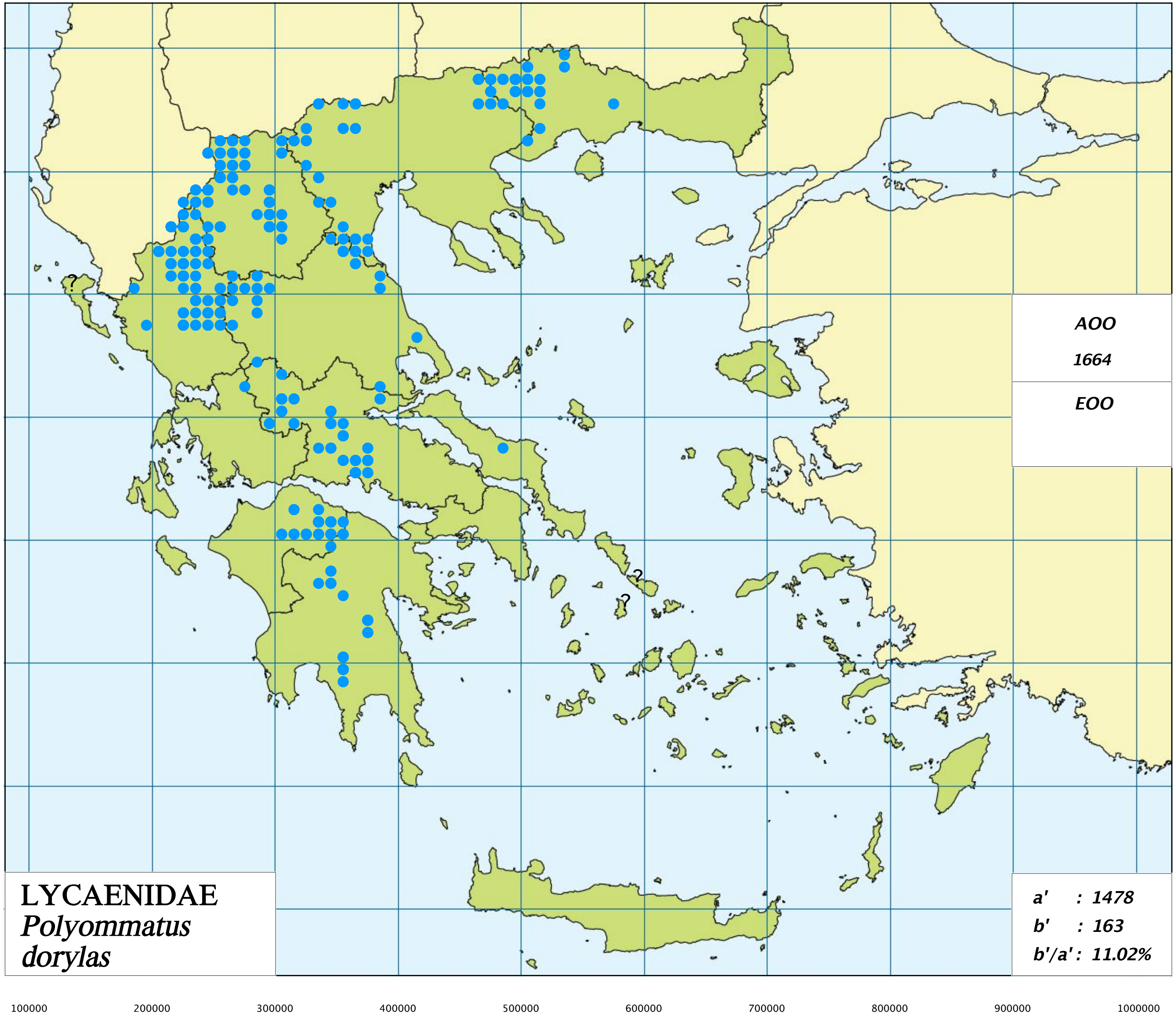

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1204
EOO
LYCAENIDAE
Polyommatus escheri
a' : 1478
b' : 133
b'/a' : 8.998%



LYCAENIDAE
Polyommatus
amanda
AOO
1720
EOO
a' : 1478
b' : 199
b'/a' : 13.46%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000



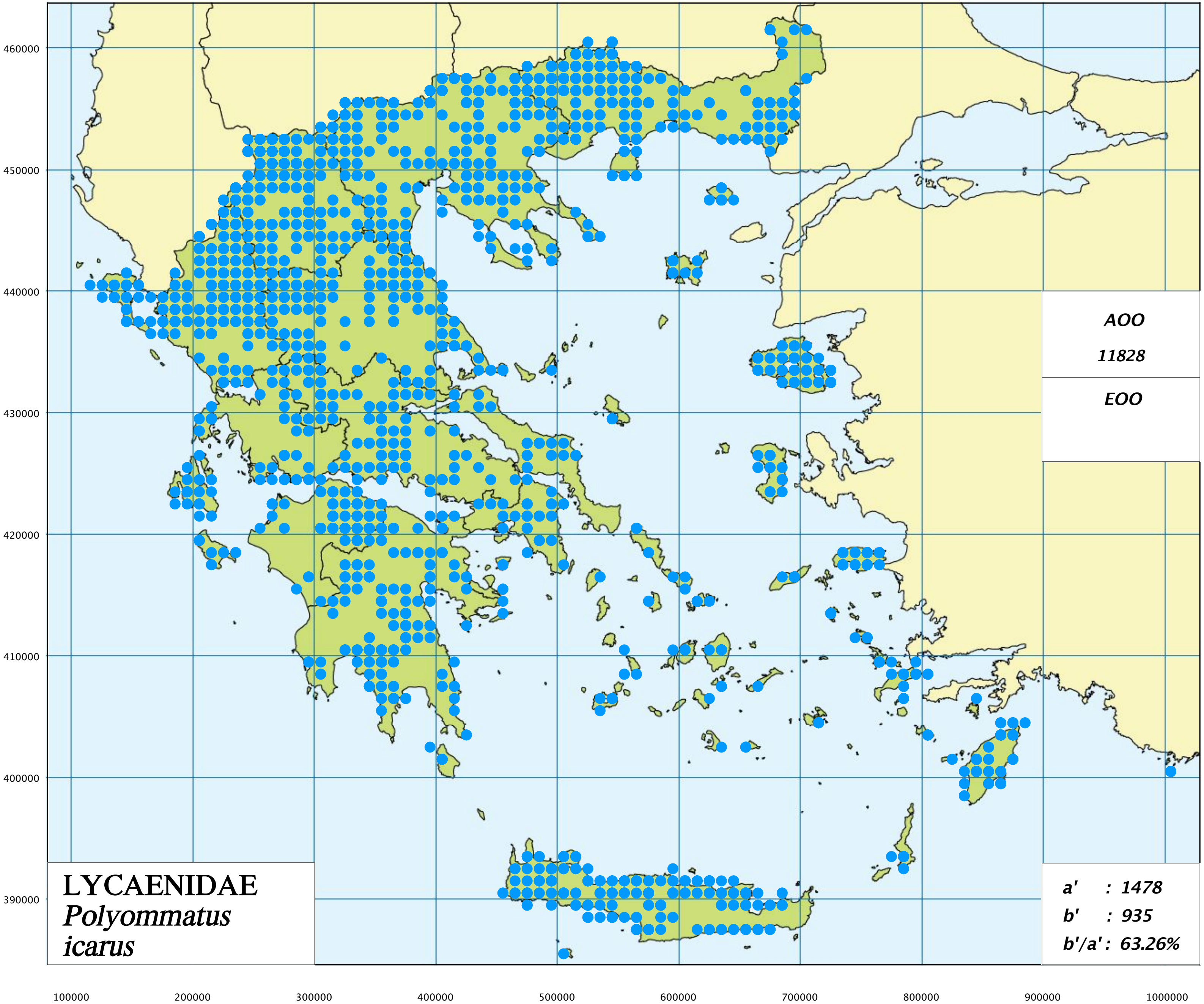
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3064
EOO
LYCAENIDAE
Polyommatus
thersites
a' : 1478
b' : 339
b'/a' : 22.93%

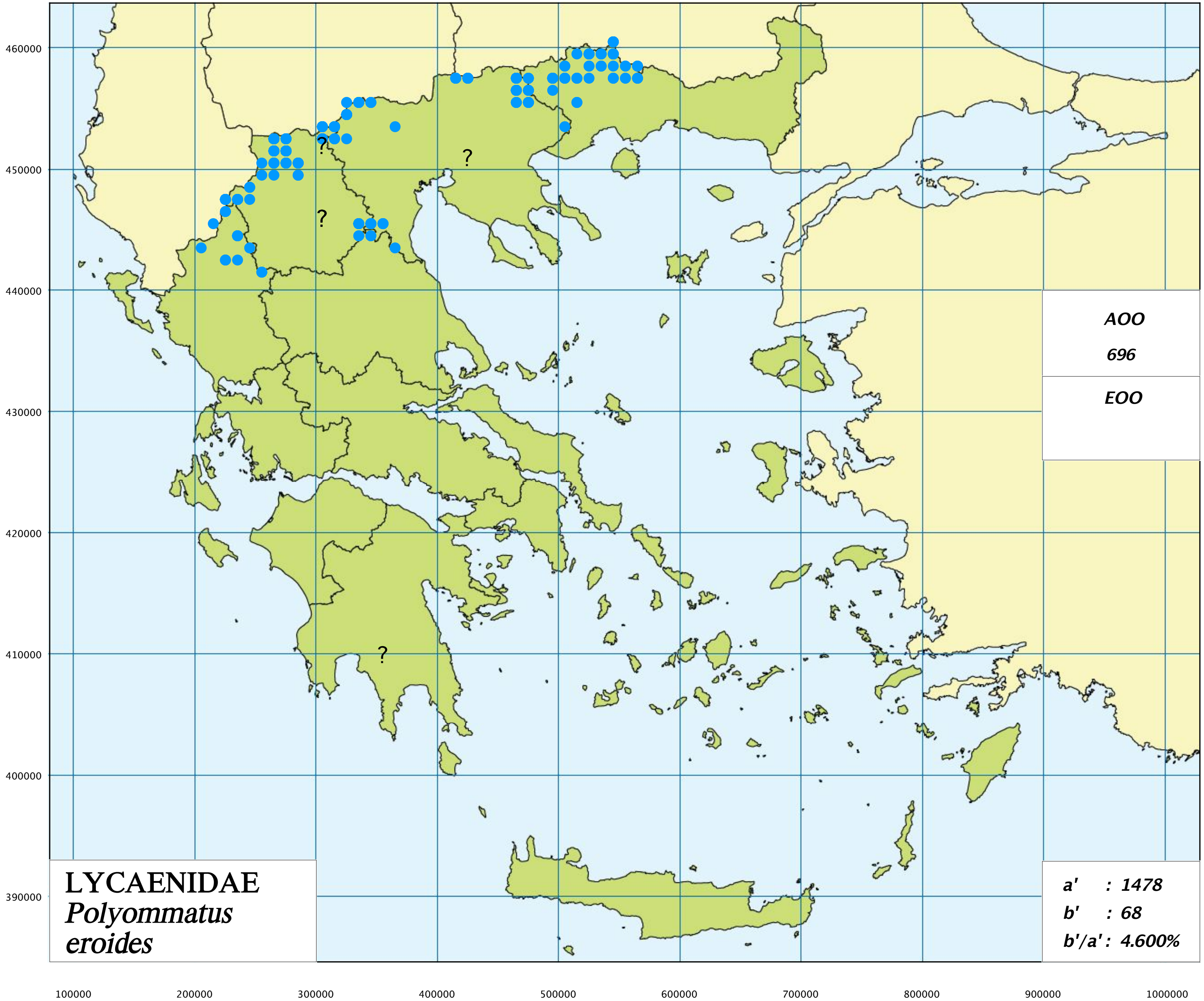


LYCAENIDAE
Polyommatus dorylas

Polyommatus icarus and *Polyommatus andronicus* are synonymized by some authors

Τα είδη *Polyommatus icarus* και *Polyommatus andronicus* θεωρούνται συνώνυμα από ωρισμένους συγραφείς



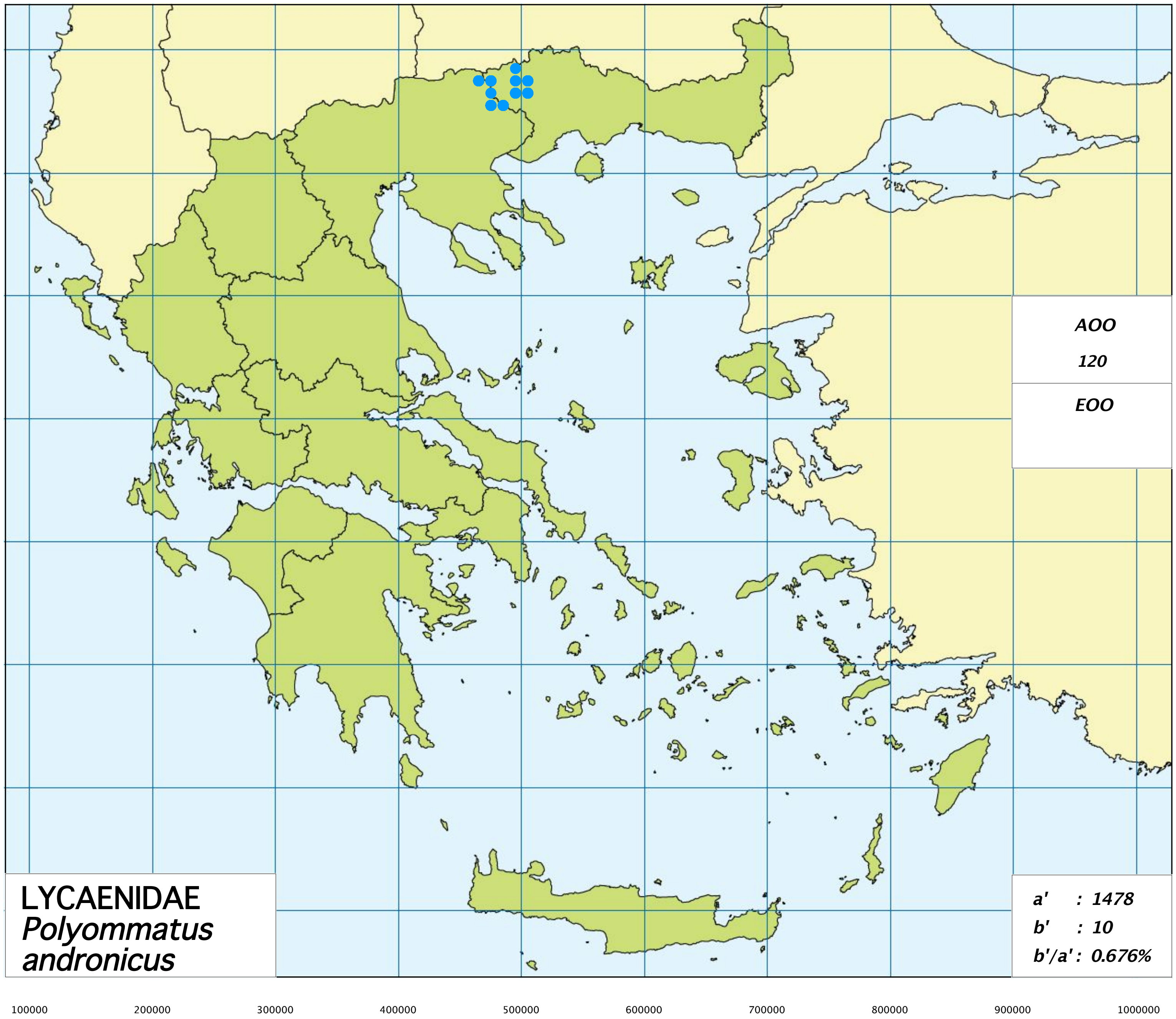


Polyommatus eroides and *Polyommatus menelaos* are synonymized by some authors

Τα είδη *Polyommatus eroides* και *Polyommatus menelaos* θεωρούνται συνώνυμα από ωρισμένους συγγραφείς

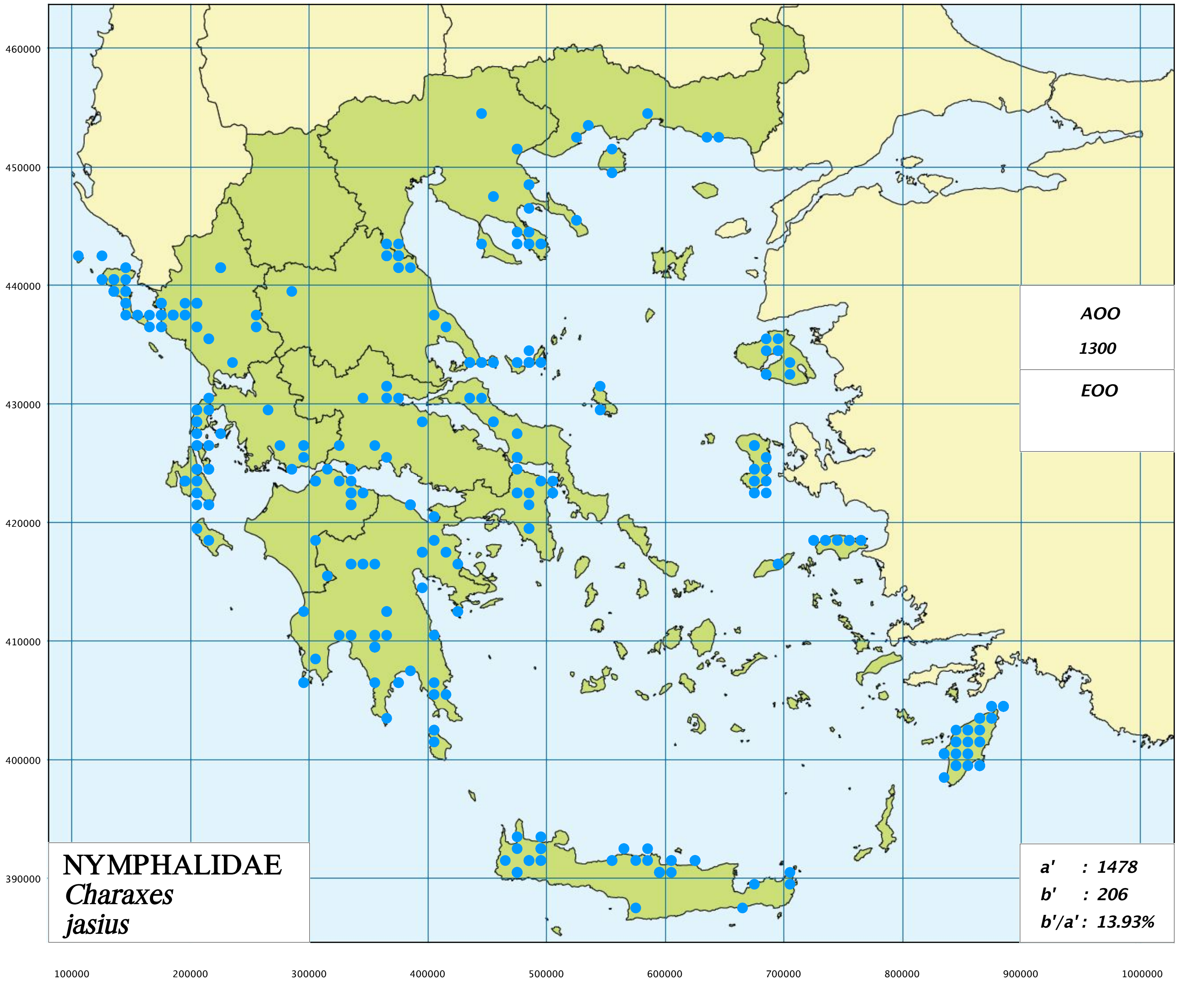
Polyommatus eroides and *Polyommatus menelaos* are synonymized by some authors

Τα είδη *Polyommatus eroides* και *Polyommatus menelao*s θεωρούνται συνώνυμα από ωρισμένους συγγραφείς

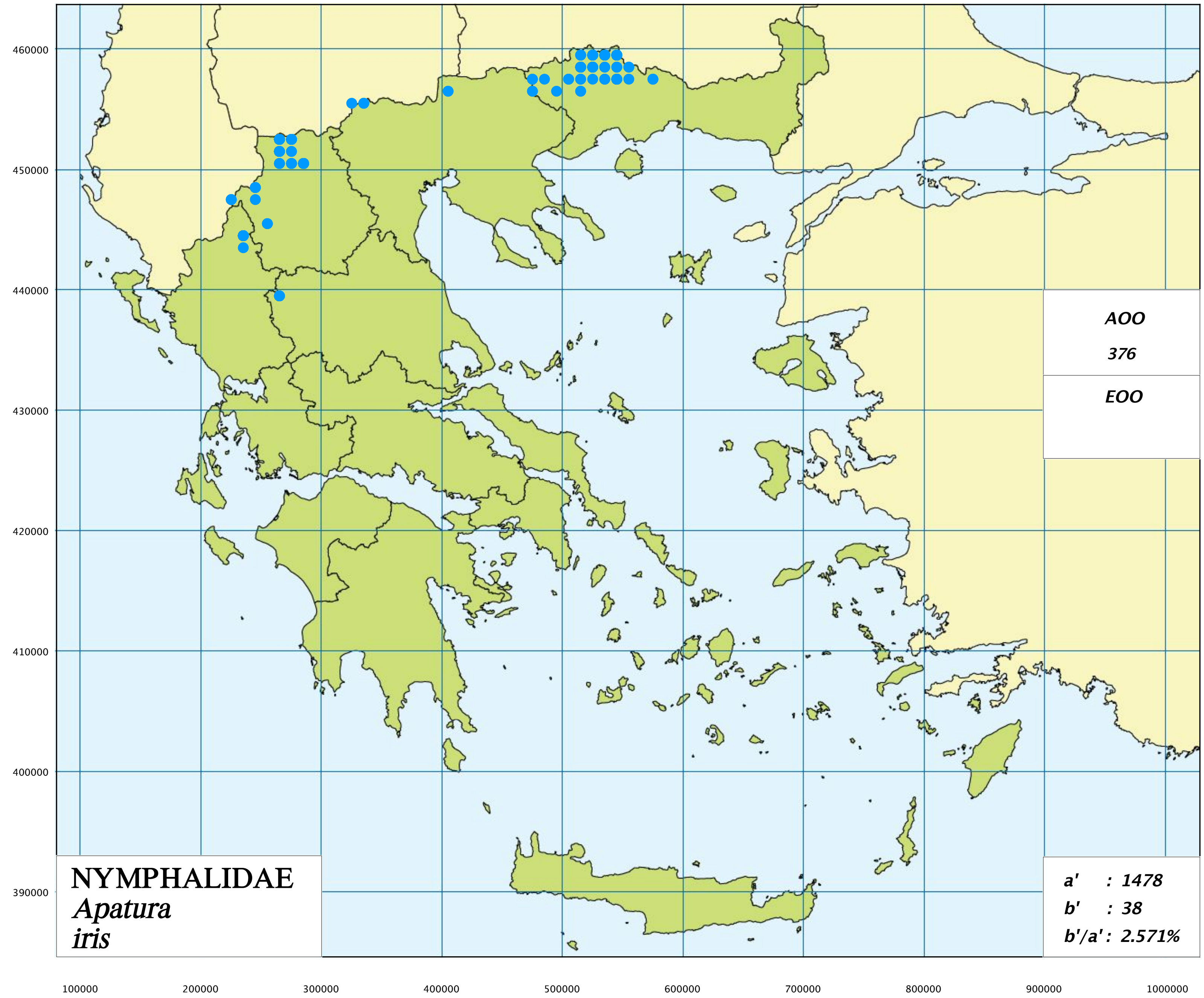


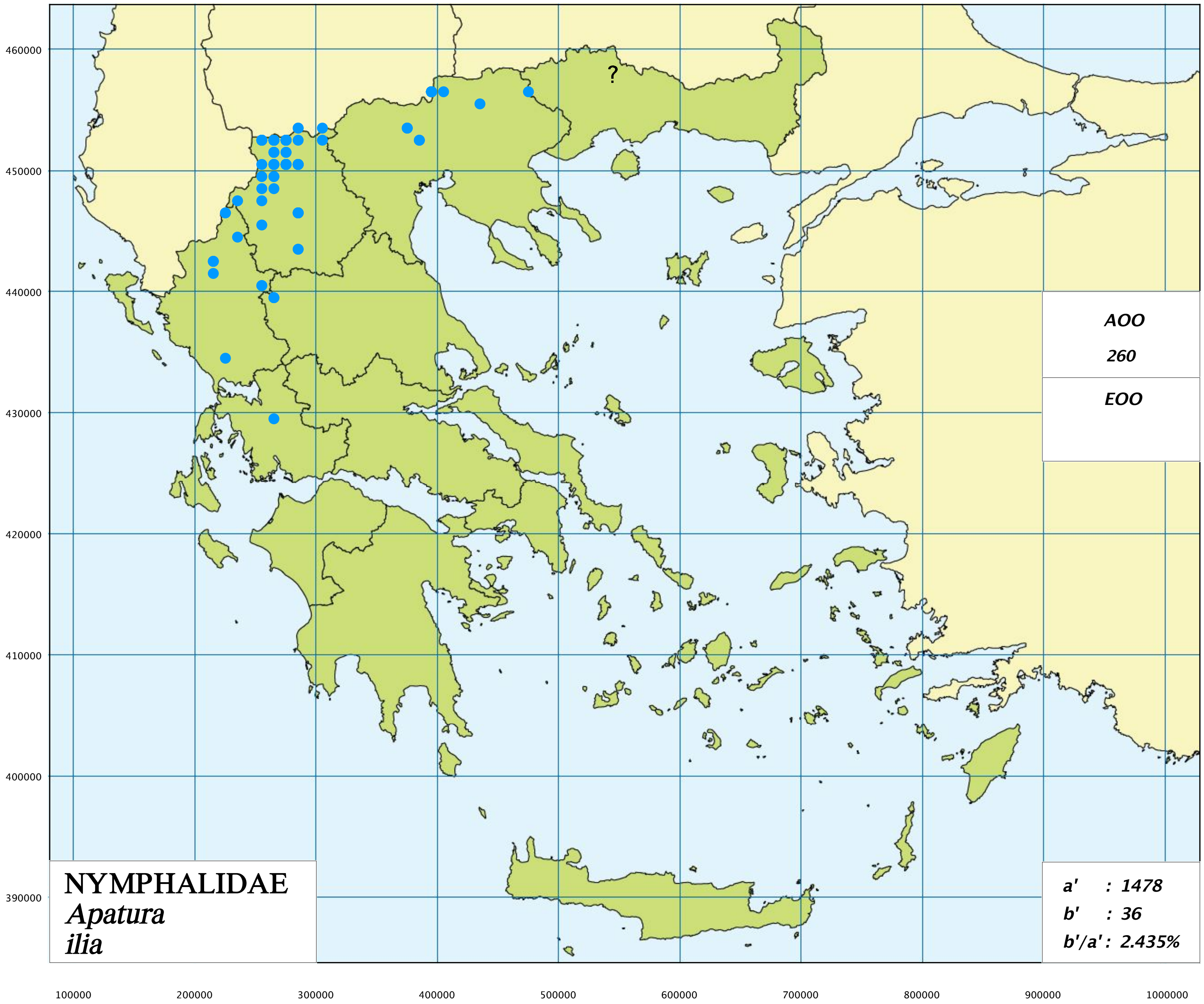
Polyommatus icarus and *Polyommatus andronicus* are synonymized by some authors

Τα είδη *Polyommatus icarus* και *Polyommatus andronicus* θεωρούνται συνώνυμα από ωρισμένους συγραφείς

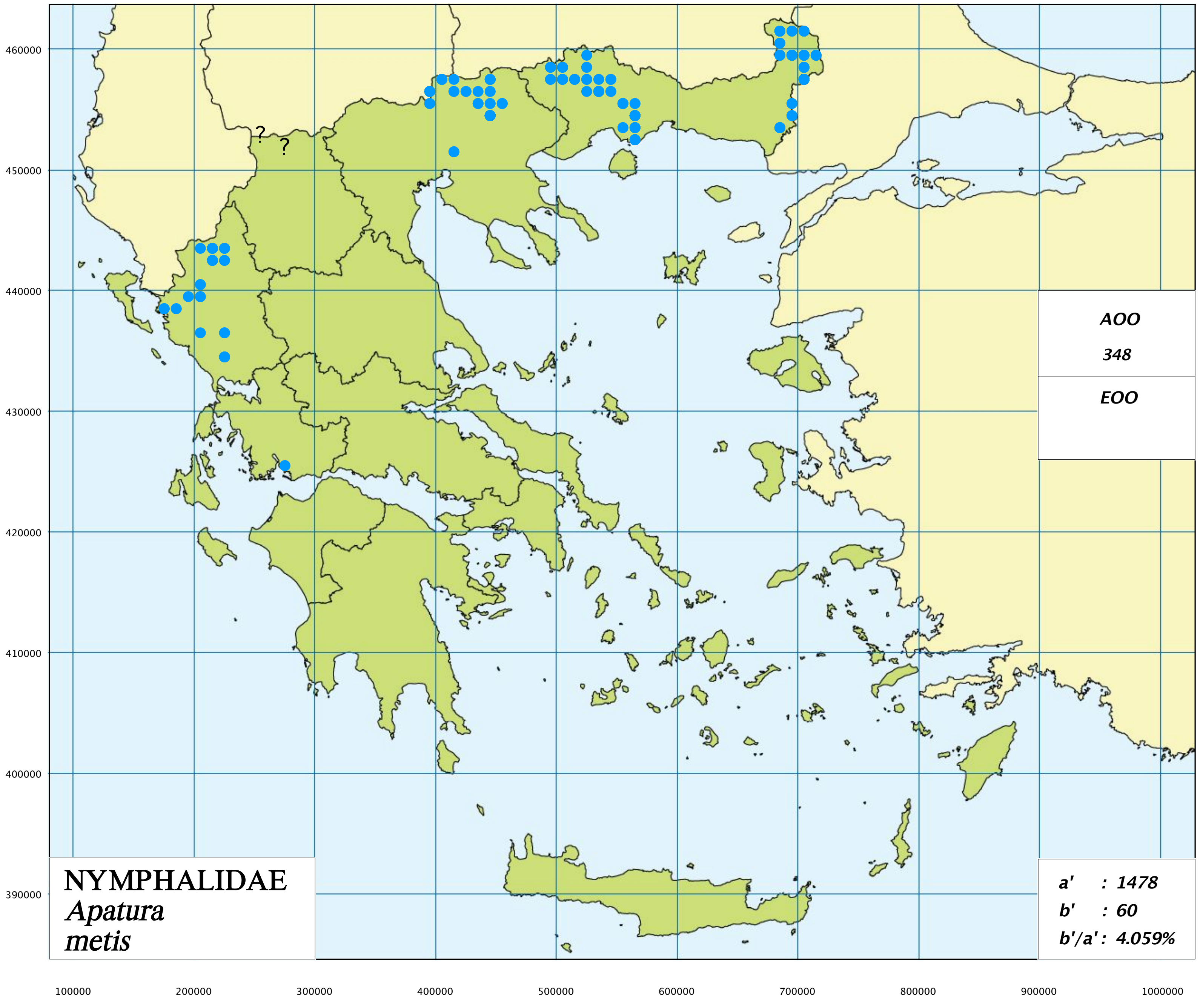


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1300
EOO
NYMPHALIDAE
Charaxes jasius
a' : 1478
b' : 206
b'/a' : 13.93%

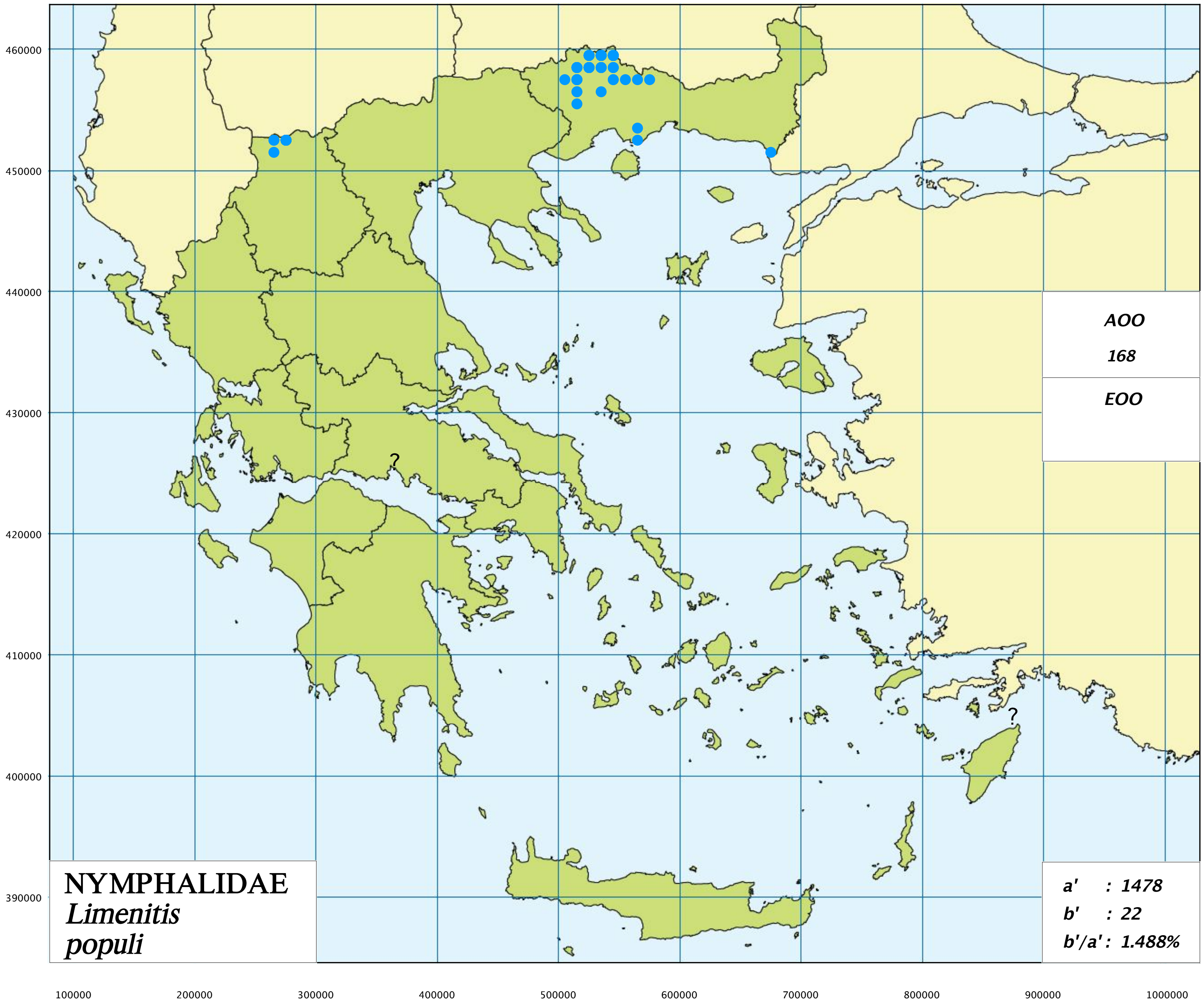

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
376
EOO
NYMPHALIDAE
Apatura iris
a' : 1478
b' : 38
b'/a' : 2.571%

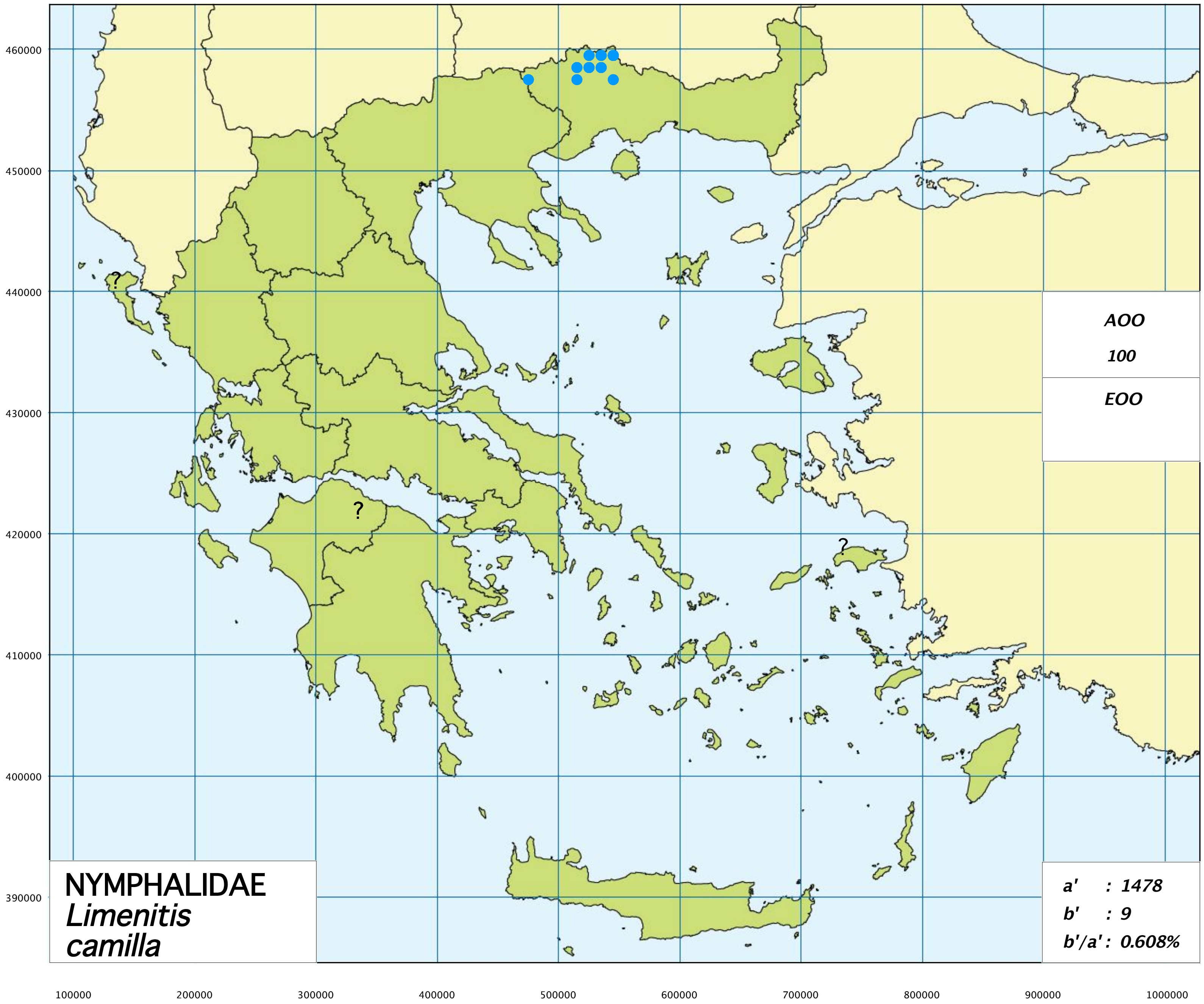


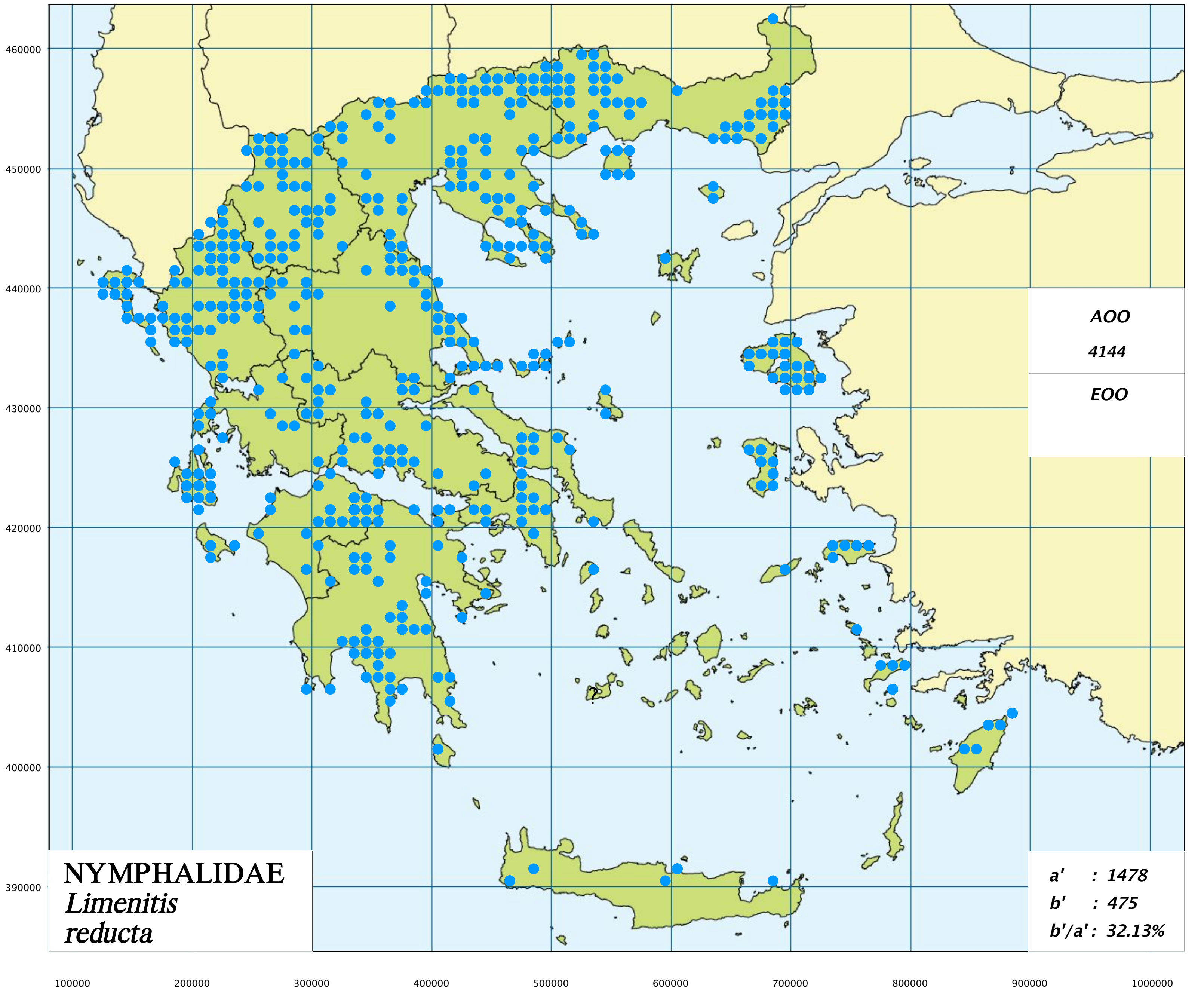
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
260
EOO
NYMPHALIDAE
Apatura
ilia
a' : 1478
b' : 36
b'/a' : 2.435%

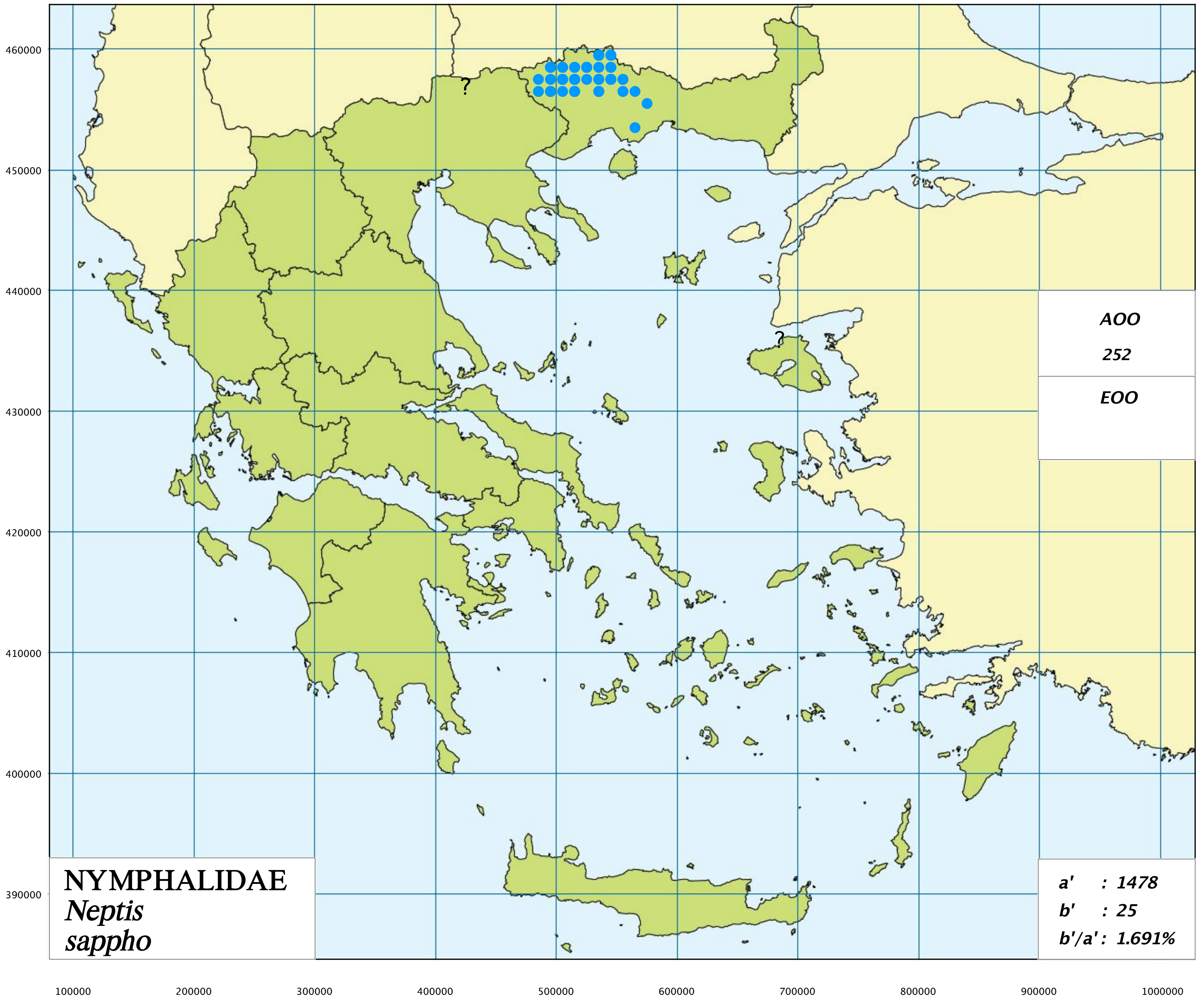


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
348
EOO
NYMPHALIDAE
Apatura
metis
a' : 1478
b' : 60
b'/a' : 4.059%

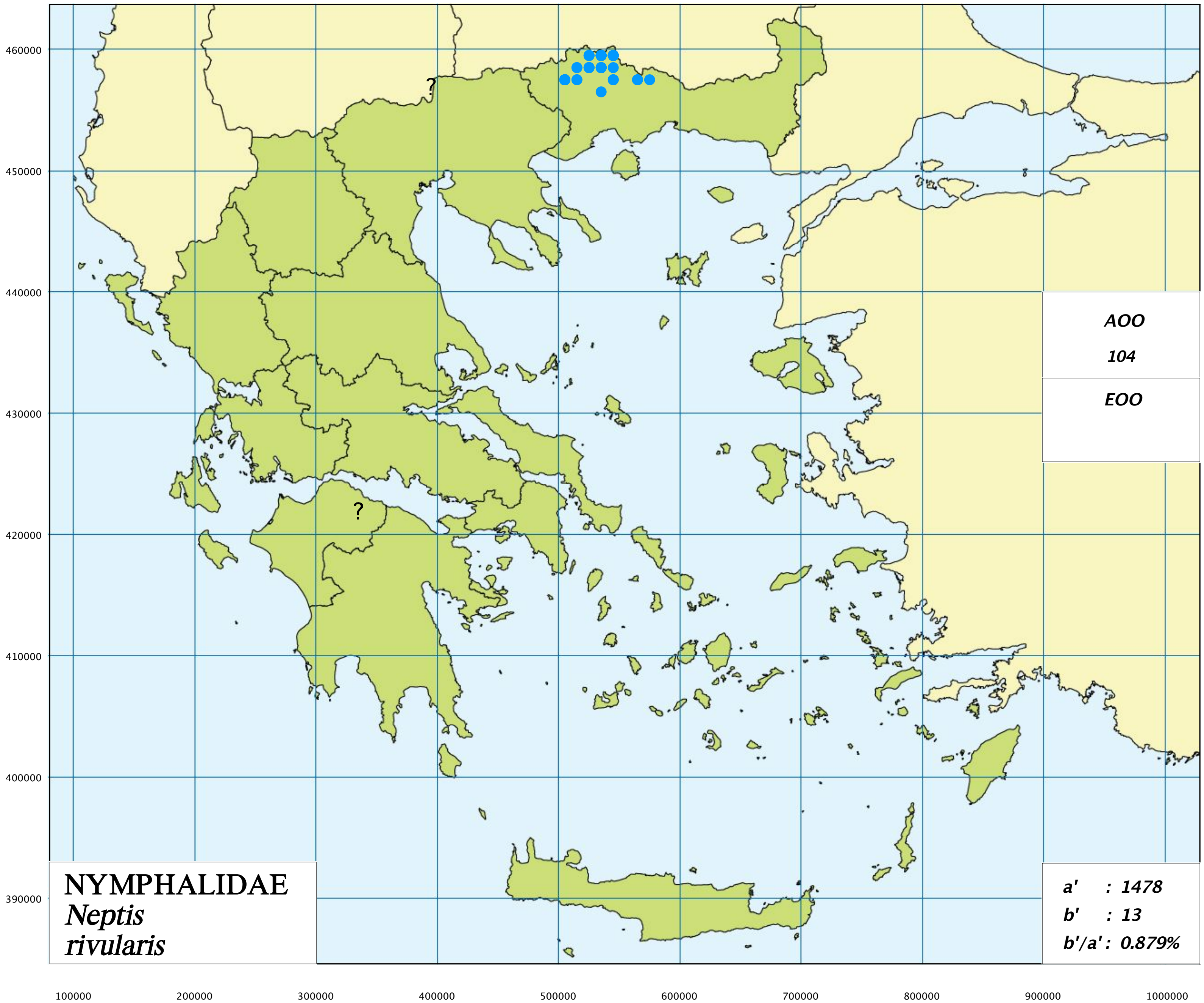

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
168
EOO
NYMPHALIDAE
Limenitis
populi
a' : 1478
b' : 22
b'/a' : 1.488%

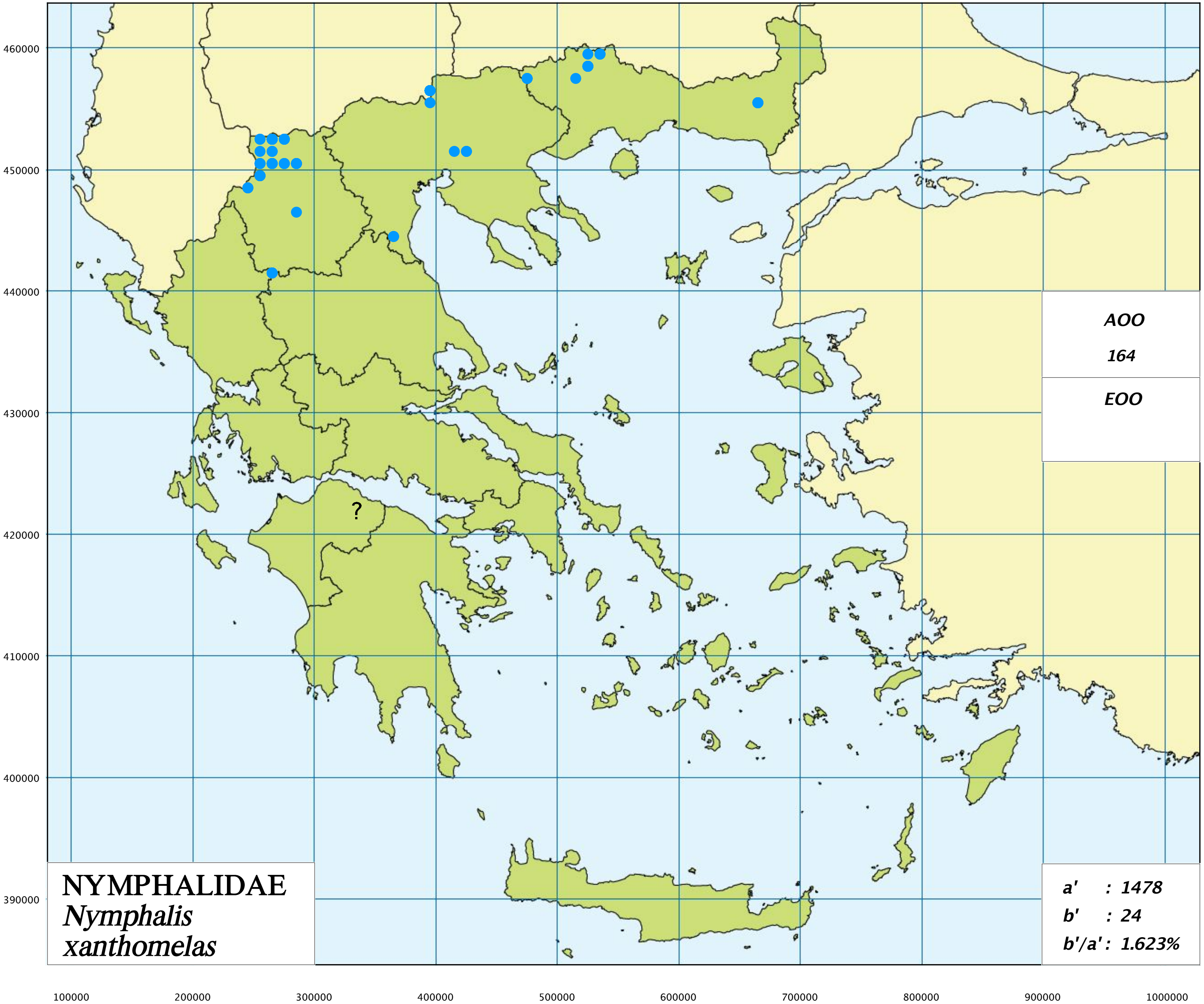

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
100
EOO
NYMPHALIDAE
Limenitis
camilla
a' : 1478
b' : 9
b'/a' : 0.608%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4144
EOO
NYMPHALIDAE
Limenitis
reducta
a' : 1478
b' : 475
b'/a' : 32.13%

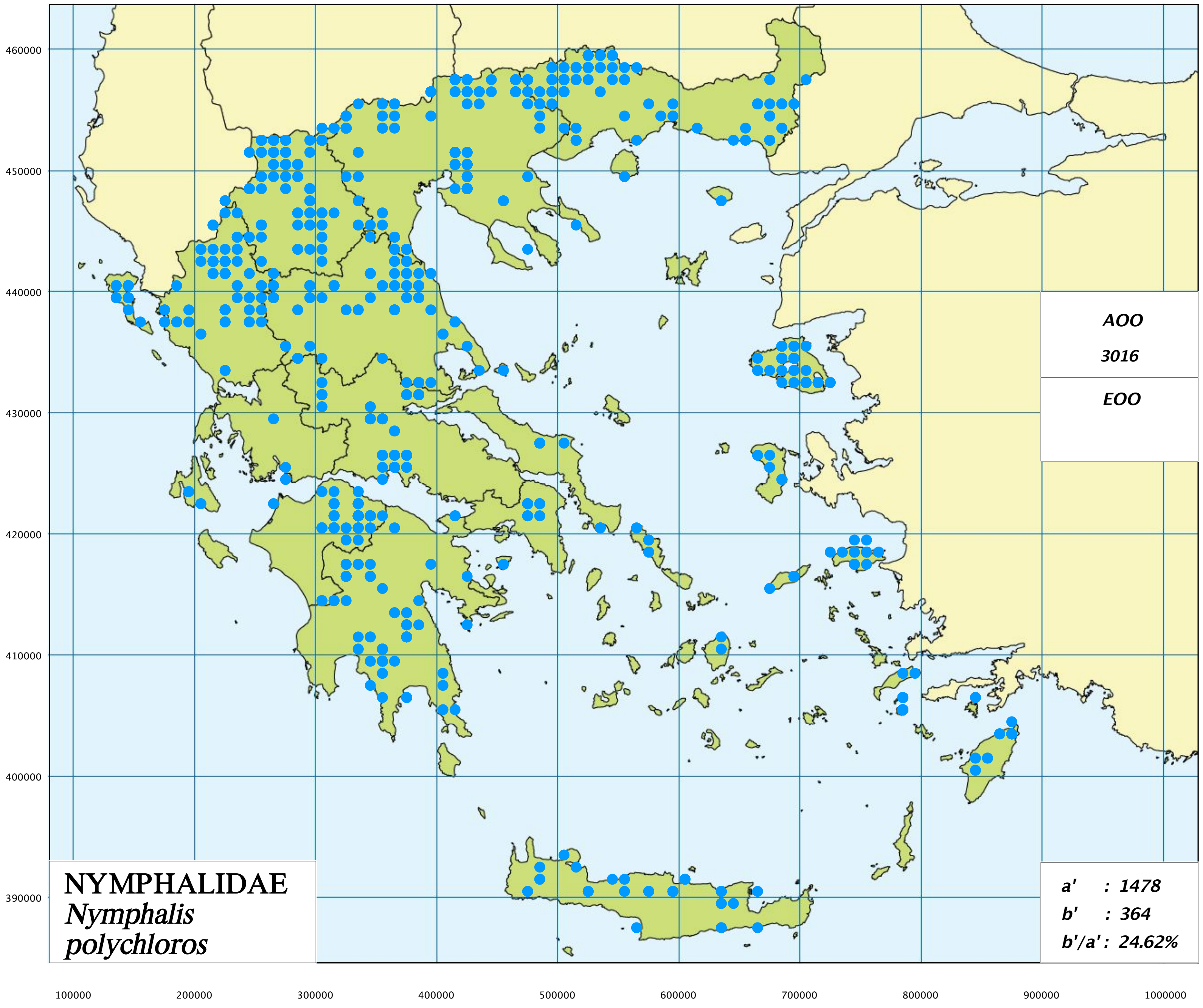


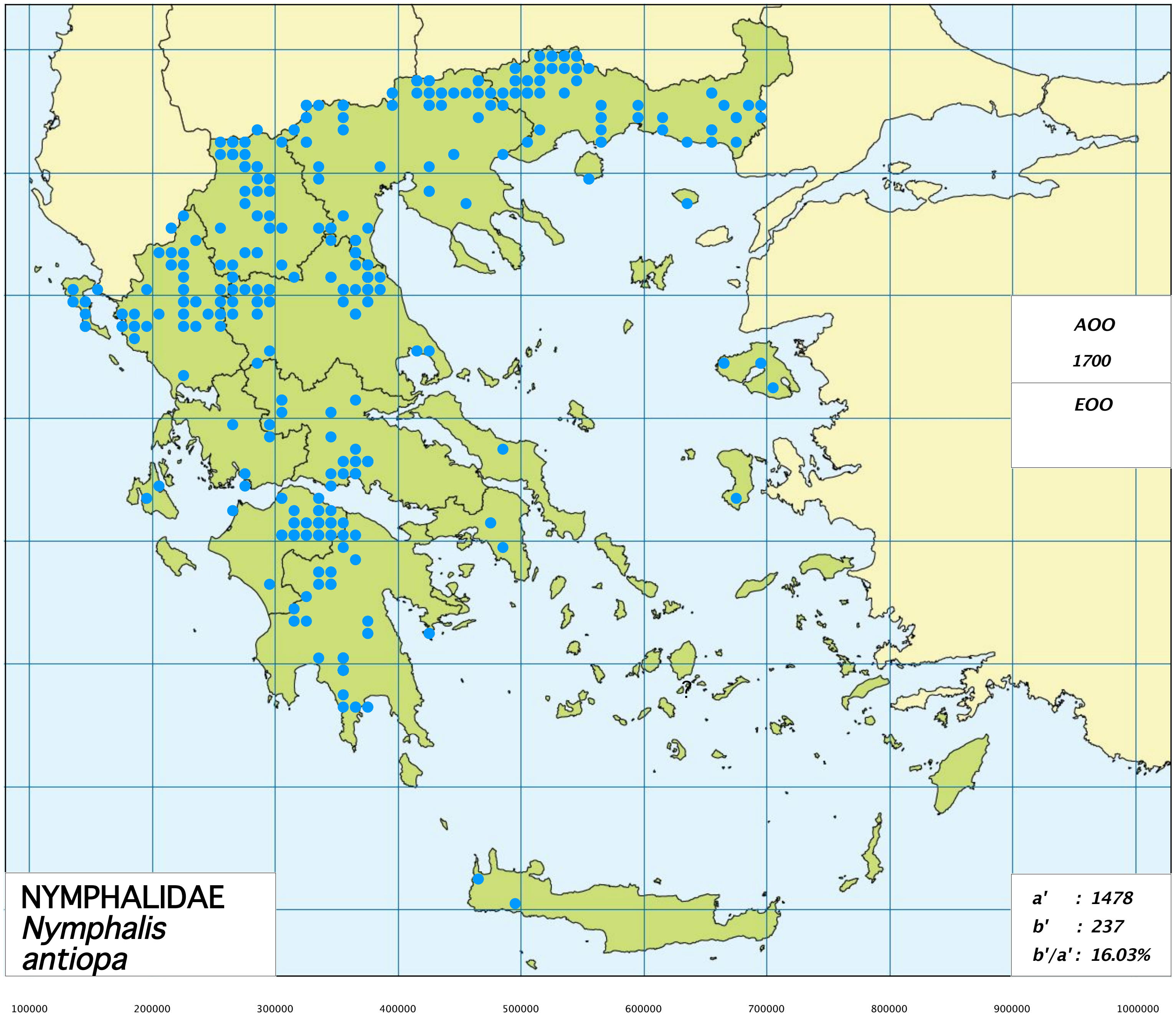
NYMPHALIDAE
Neptis
sappho

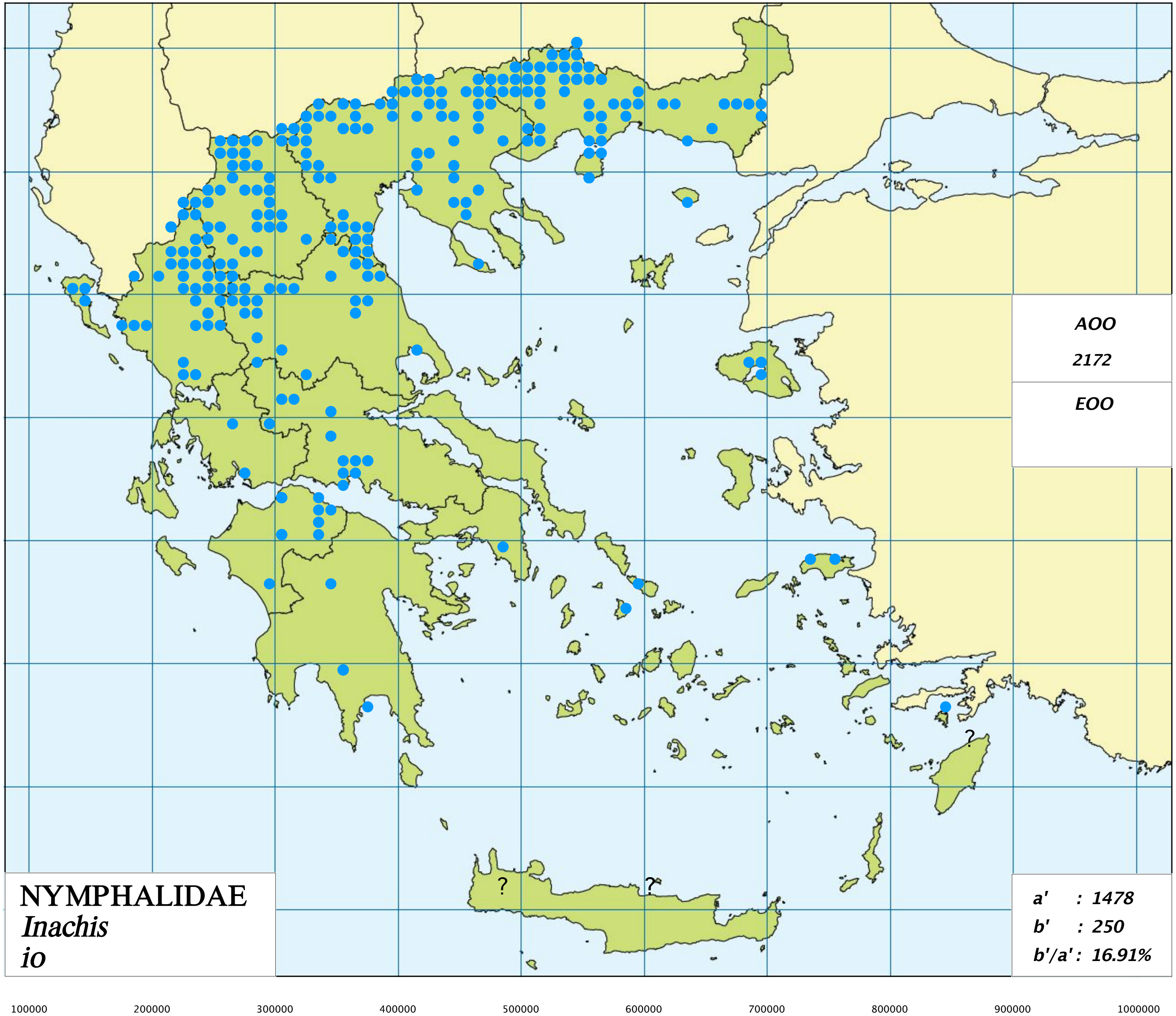

NYMPHALIDAE
Neptis
rivularis
AOO
104
EOO
a' : 1478
b' : 13
b'/a' : 0.879%
?
?
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000



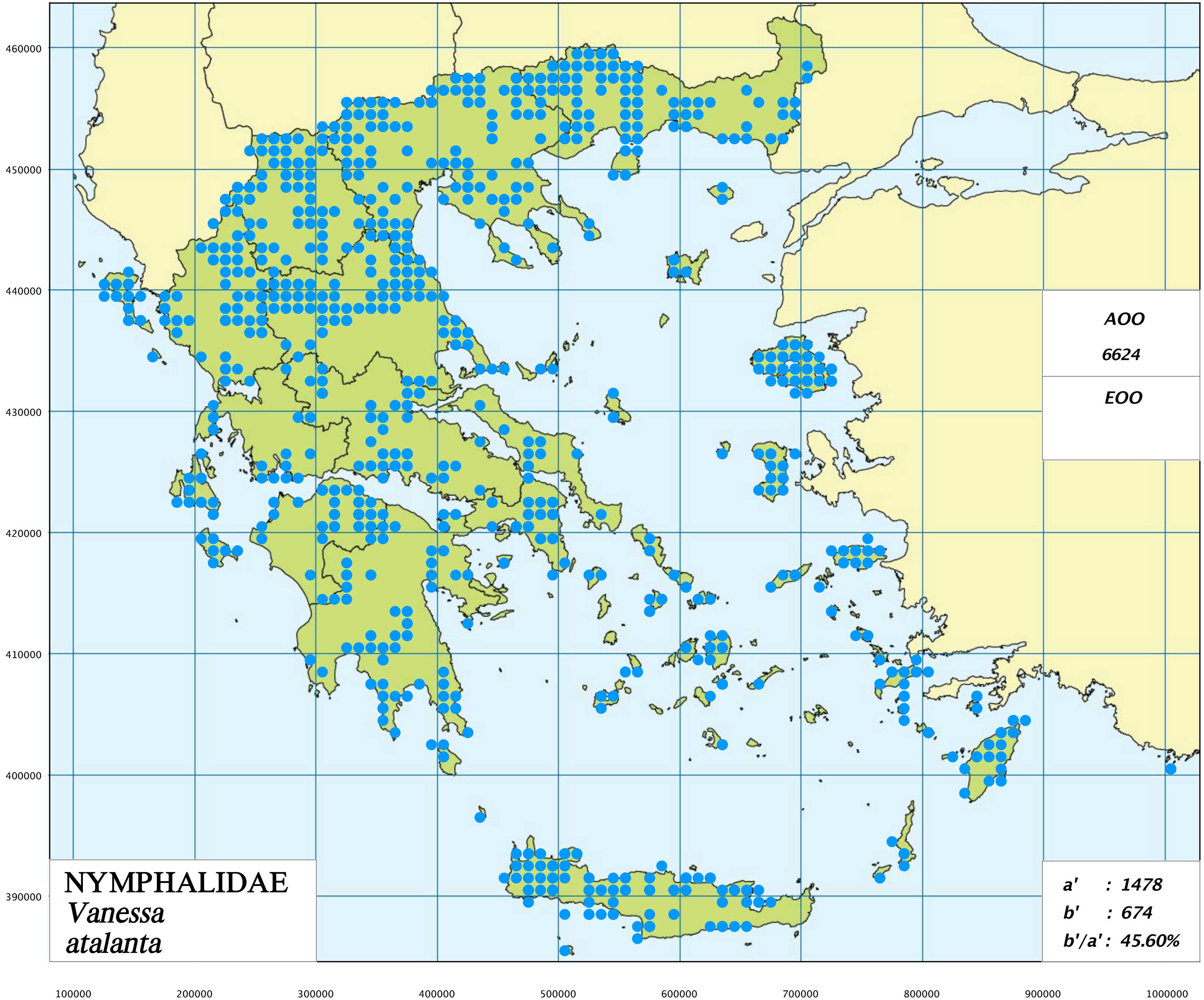
NYMPHALIDAE
Nymphalis
xanthomelas
AOO
164
EOO
a' : 1478
b' : 24
b'/a' : 1.623%
?
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3016
EOO
NYMPHALIDAE
Nymphalis polychloros
a' : 1478
b' : 364
b'/a' : 24.62%

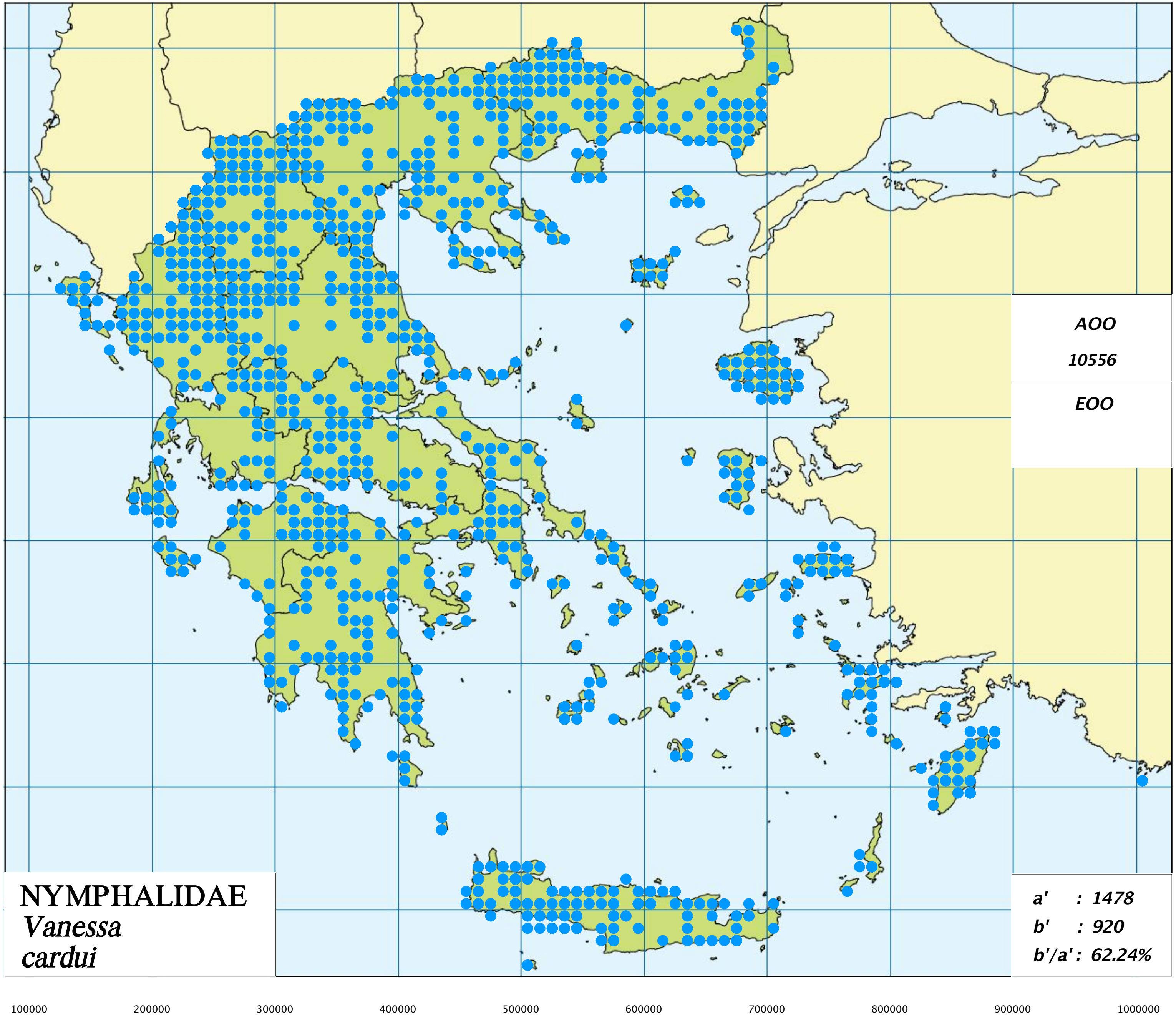

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1700
EOO
NYMPHALIDAE
Nymphalis
antiopa
a' : 1478
b' : 237
b'/a' : 16.03%



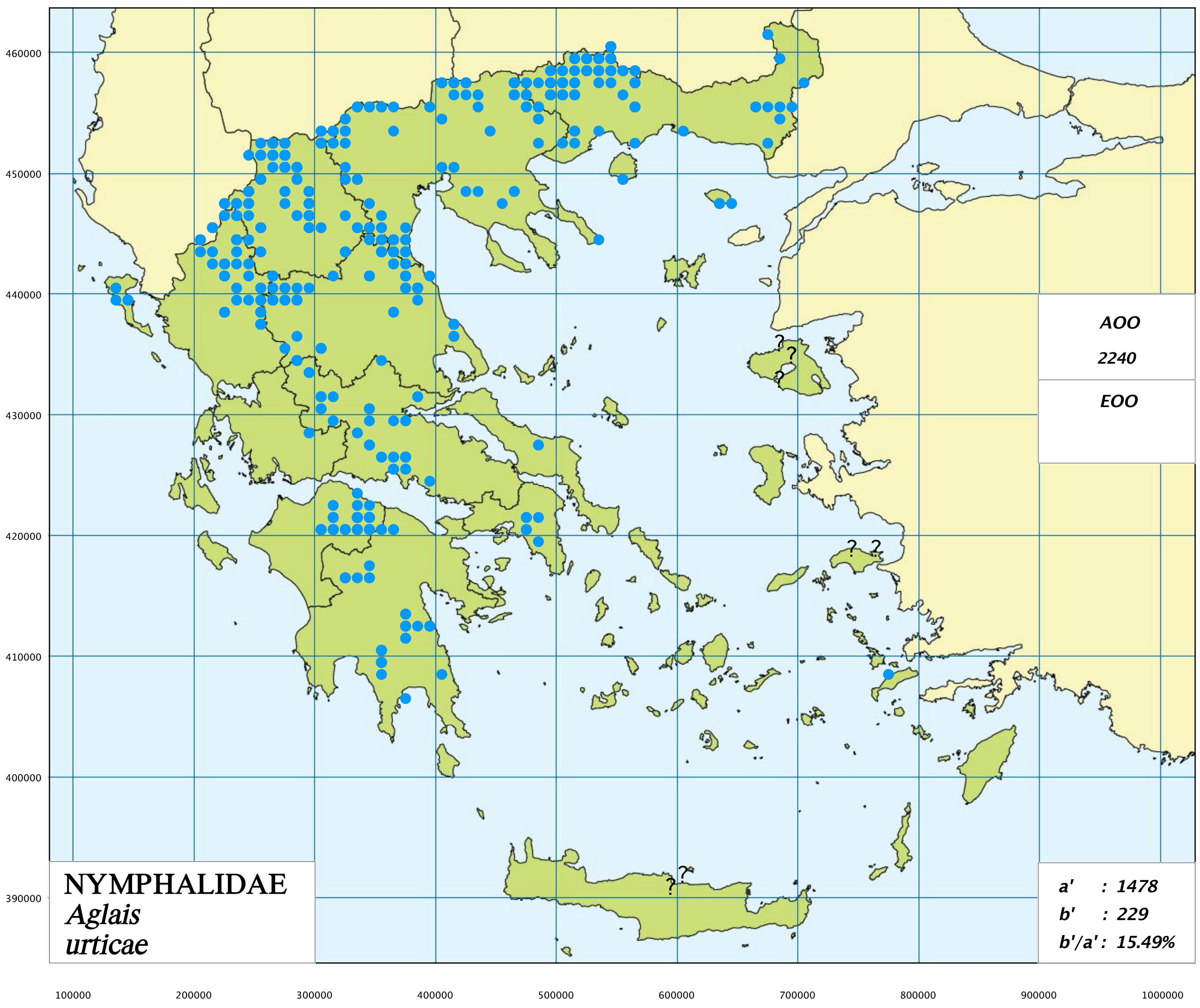
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2172
EOO
NYMPHALIDAE
Inachis
io
a' : 1478
b' : 250
b'/a' : 16.91%
?
?
?

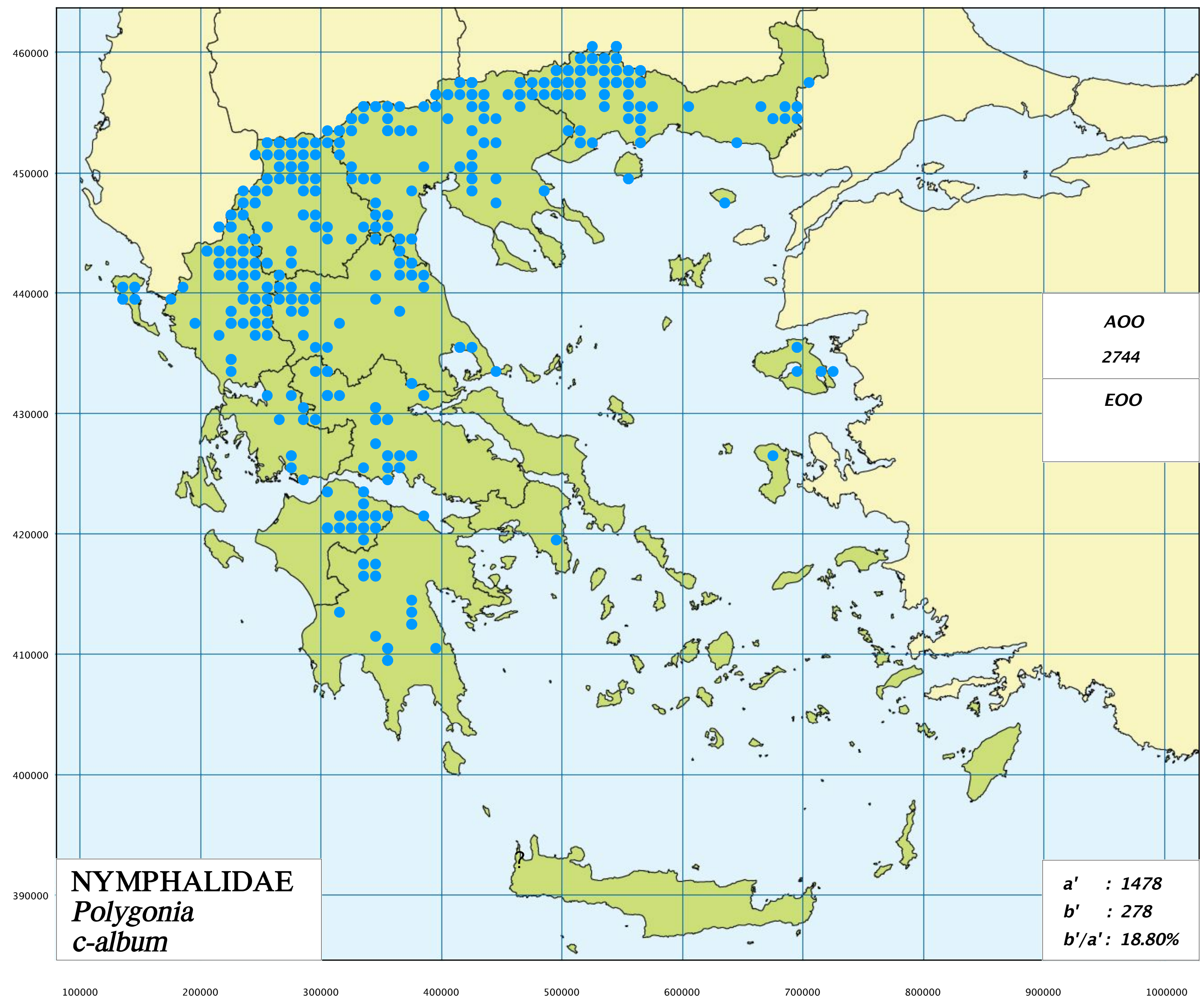


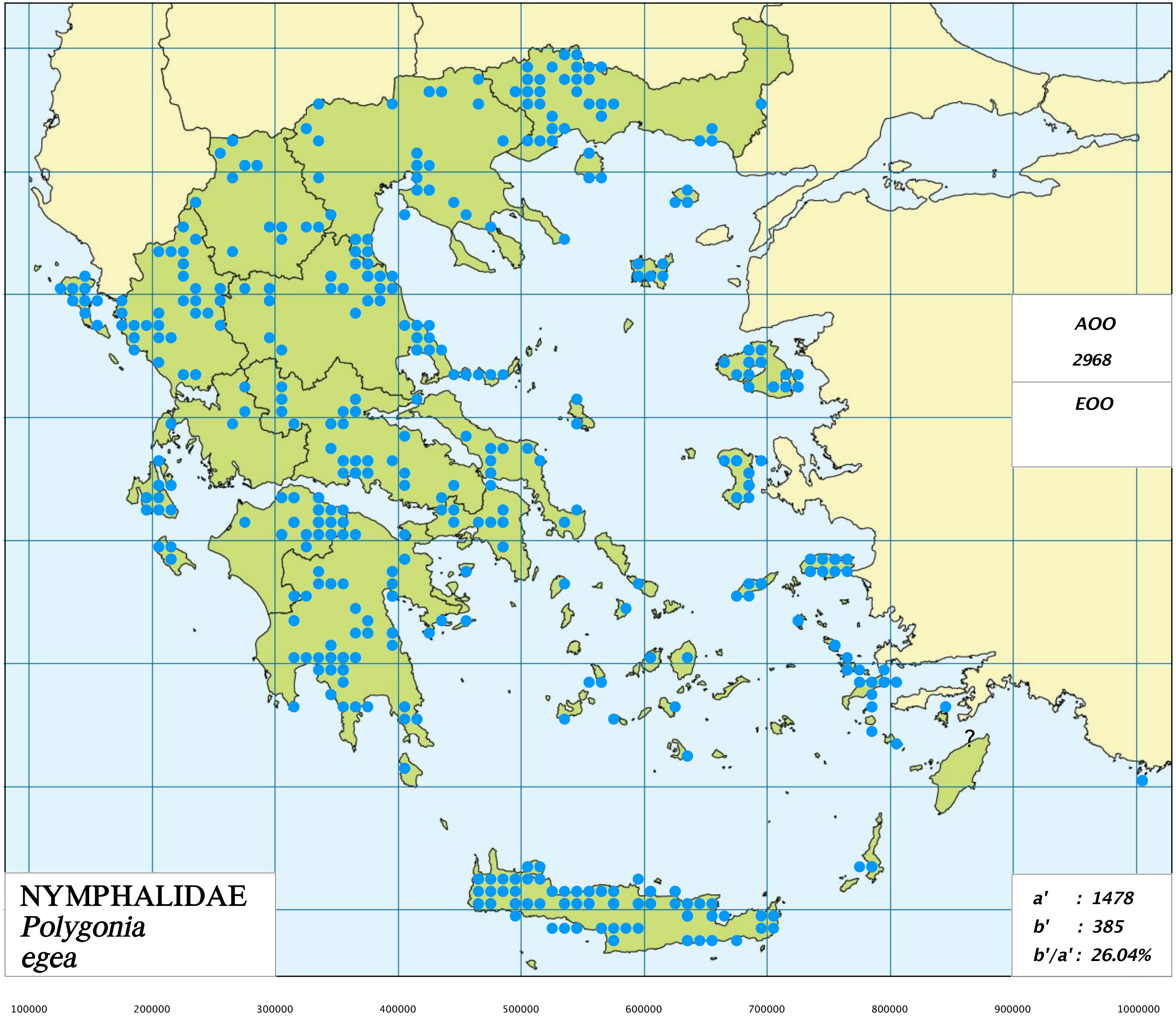
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
6624
EOO
NYMPHALIDAE
Vanessa
atalanta
a' : 1478
b' : 674
b'/a' : 45.60%



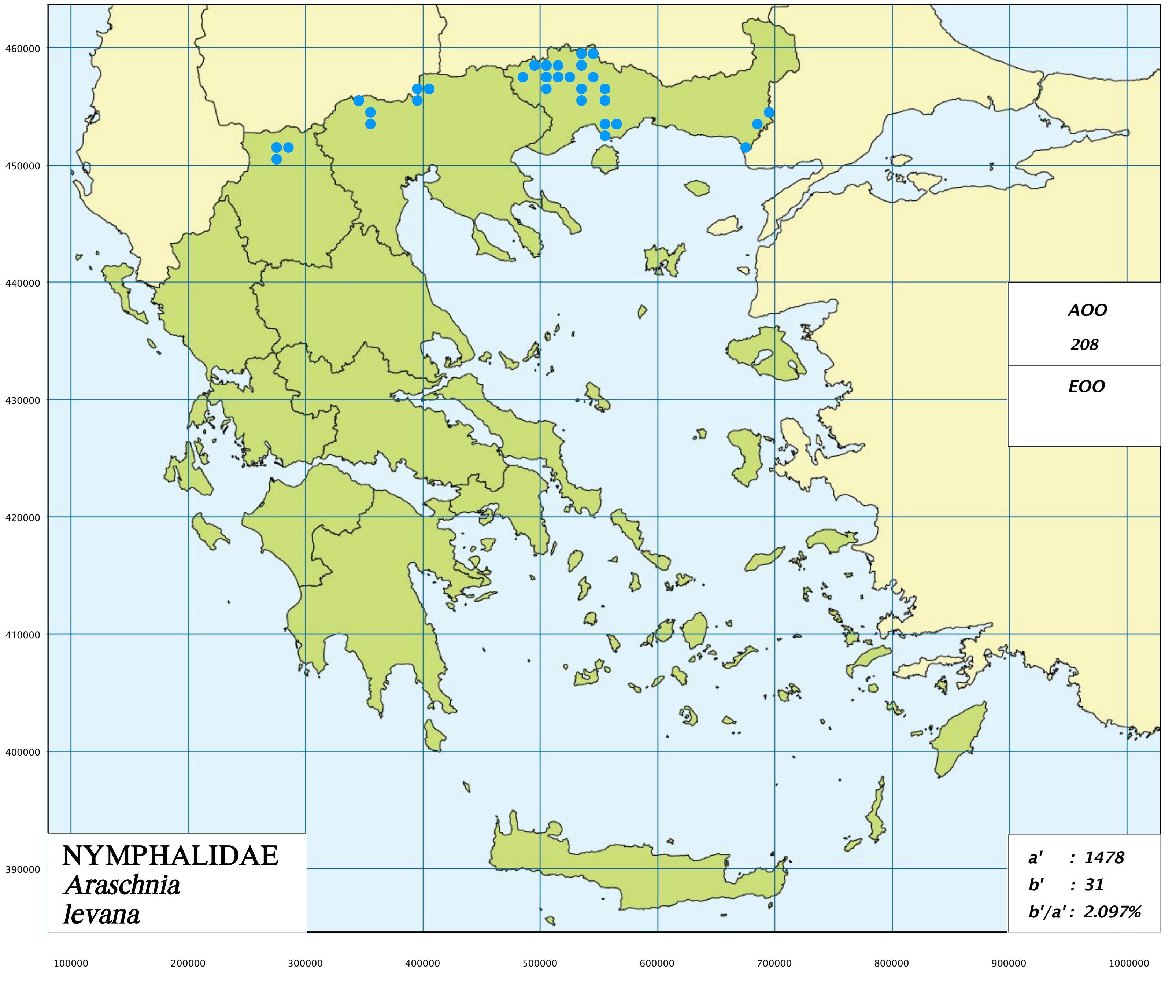
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
10556
EOO
NYMPHALIDAE
Vanessa cardui
a' : 1478
b' : 920
b'/a' : 62.24%

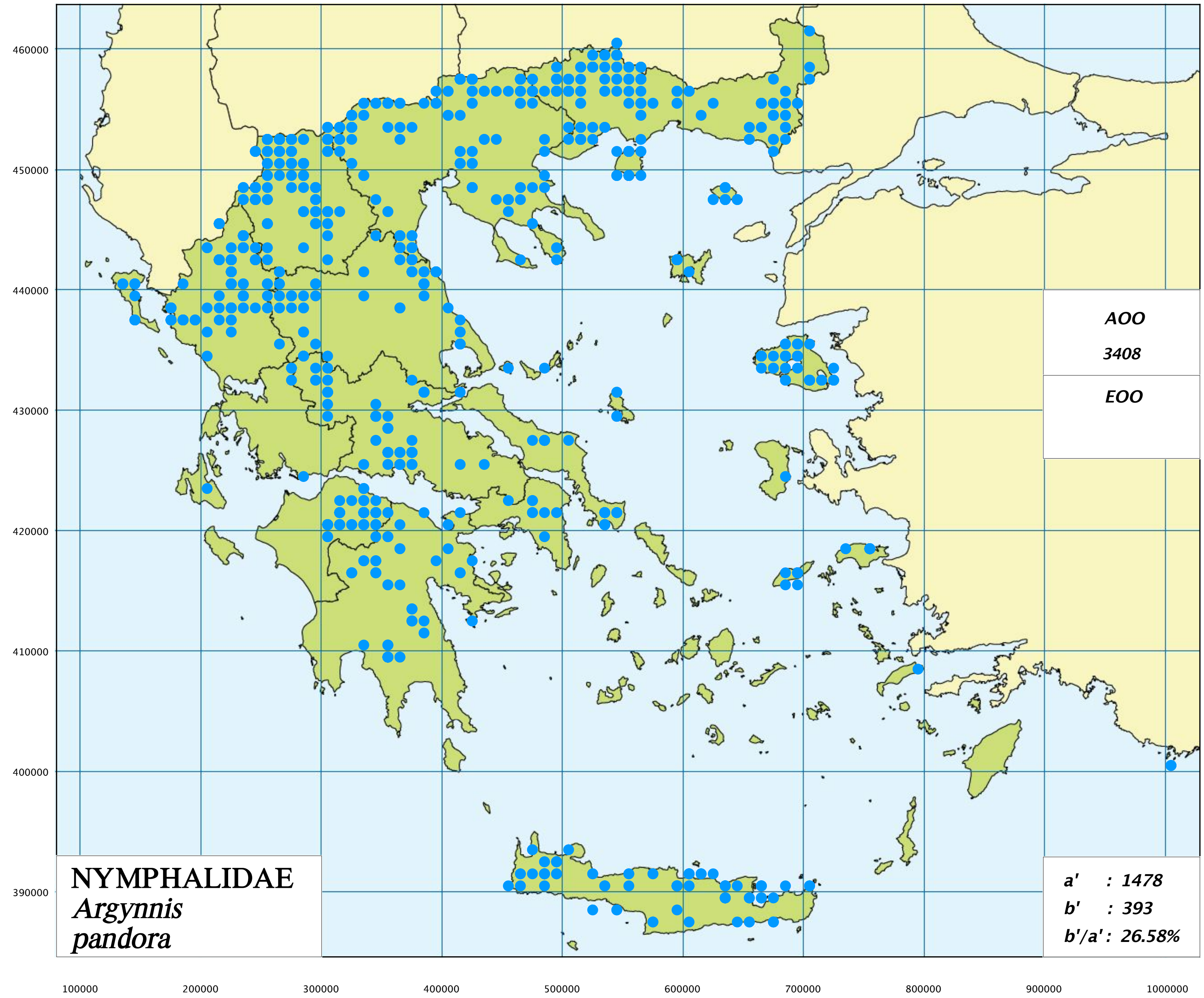

NYMPHALIDAE
Aglais
urticae
AOO
2240
EOO
a' : 1478
b' : 229
b'/a' : 15.49%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

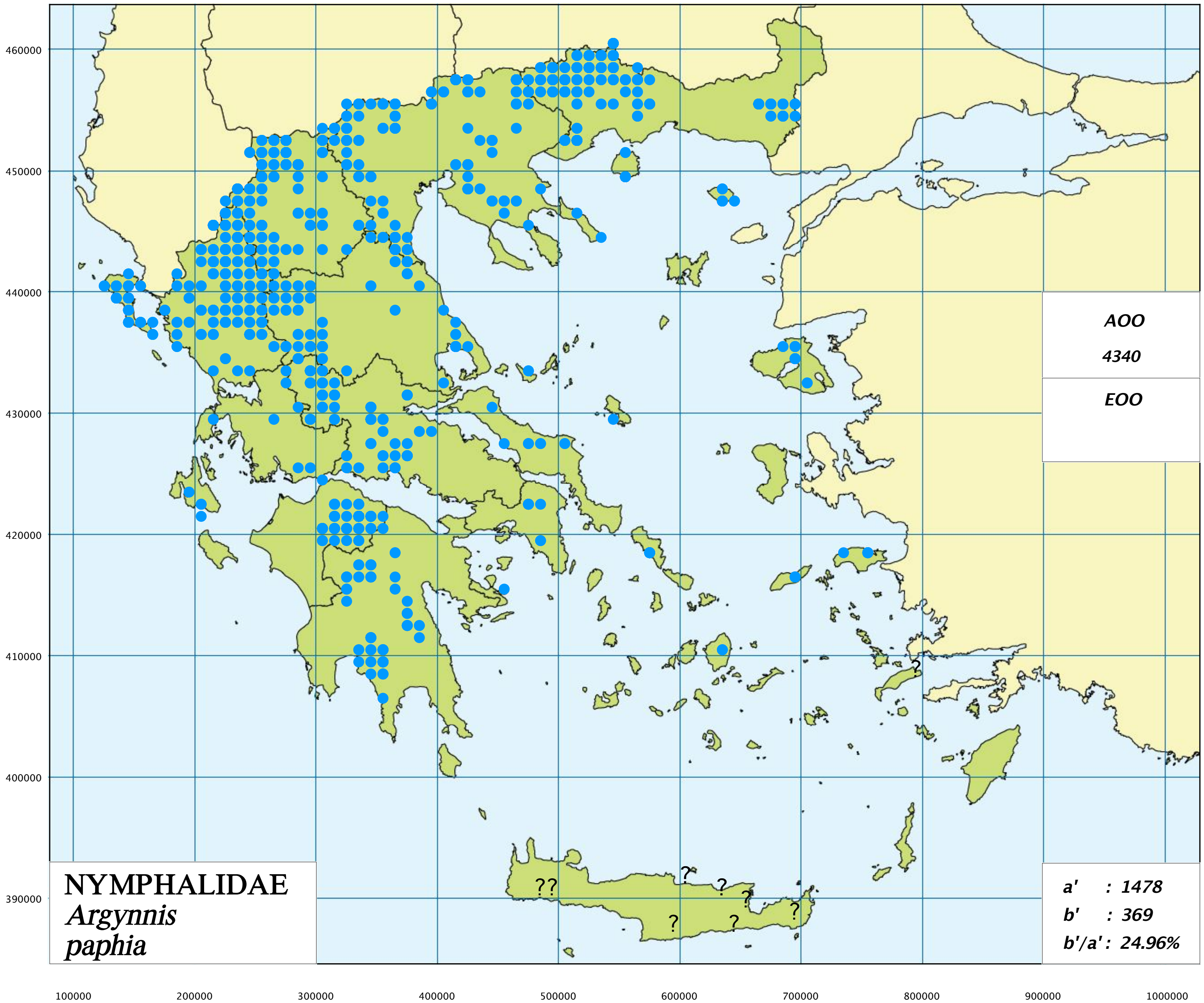

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2744
EOO
NYMPHALIDAE
Polygonia
c-album
a' : 1478
b' : 278
b'/a' : 18.80%

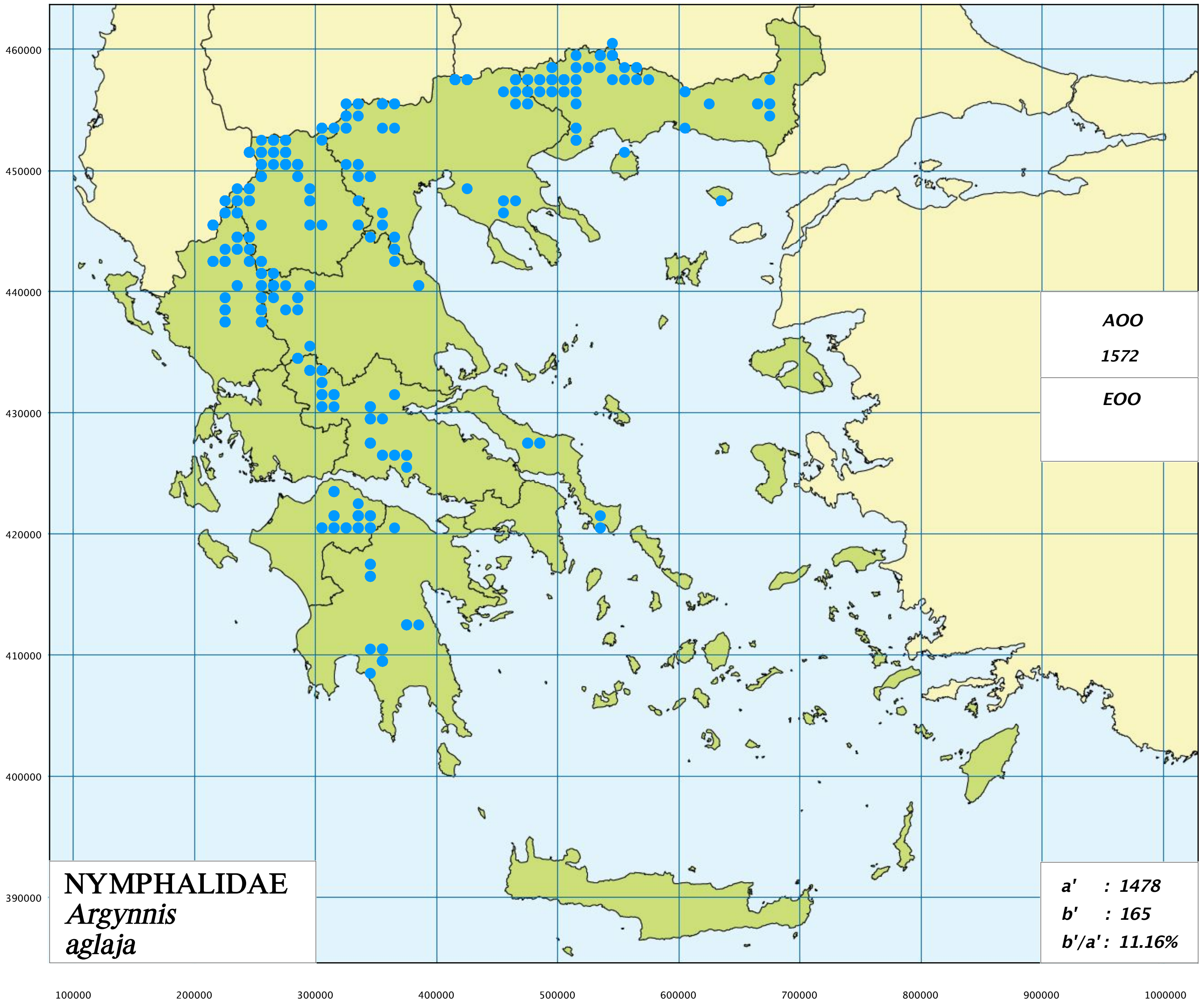


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2968
EOO
?
NYMPHALIDAE
Polygonia
egea
a' : 1478
b' : 385
b'/a' : 26.04%

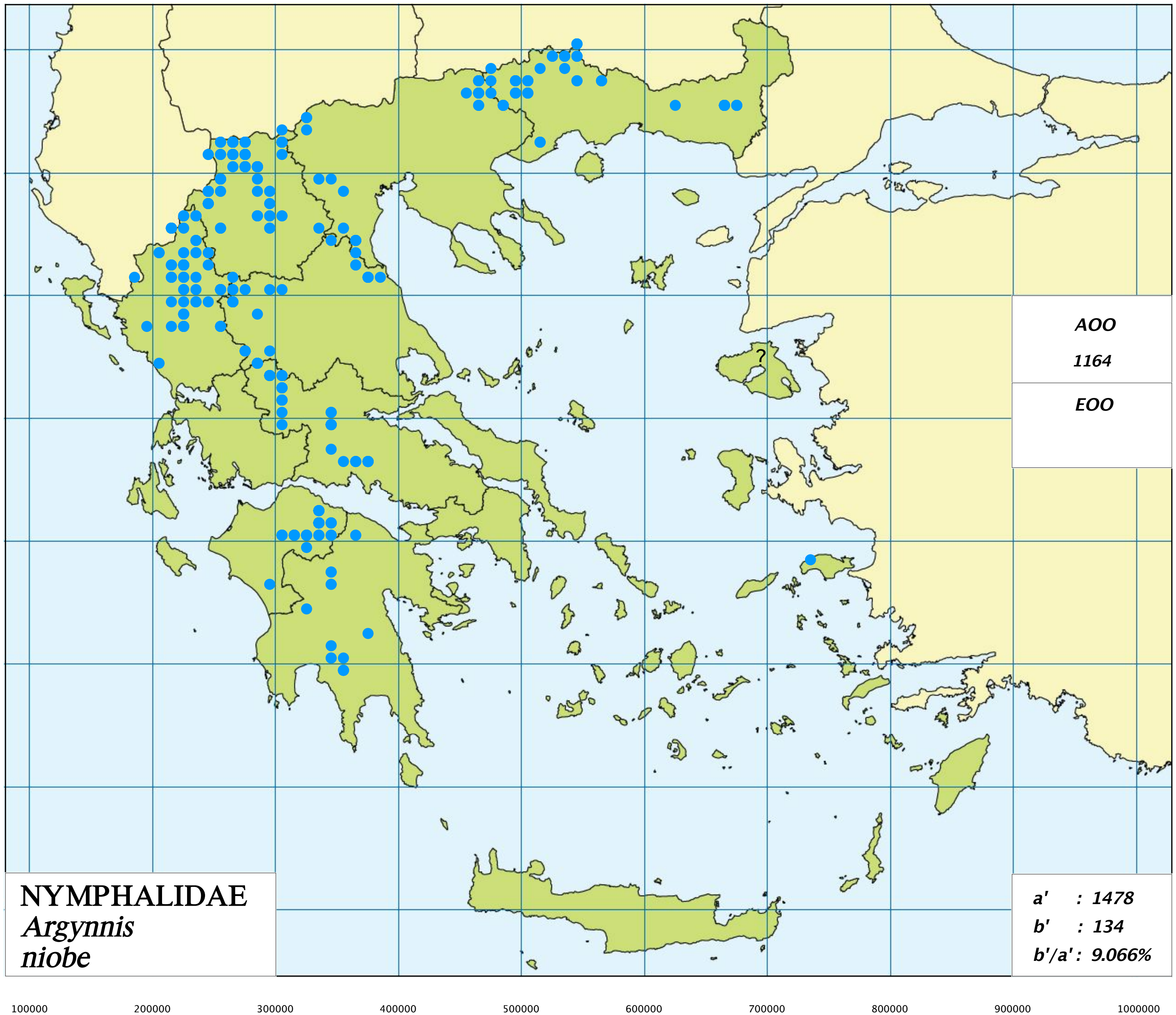

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
208
EOO
a' : 1478
b' : 31
b'/a' : 2.097%
NYMPHALIDAE
Araschnia levana


AOO
3408
EOO
NYMPHALIDAE
Argynnis
pandora
a' : 1478
b' : 393
b'/a' : 26.58%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

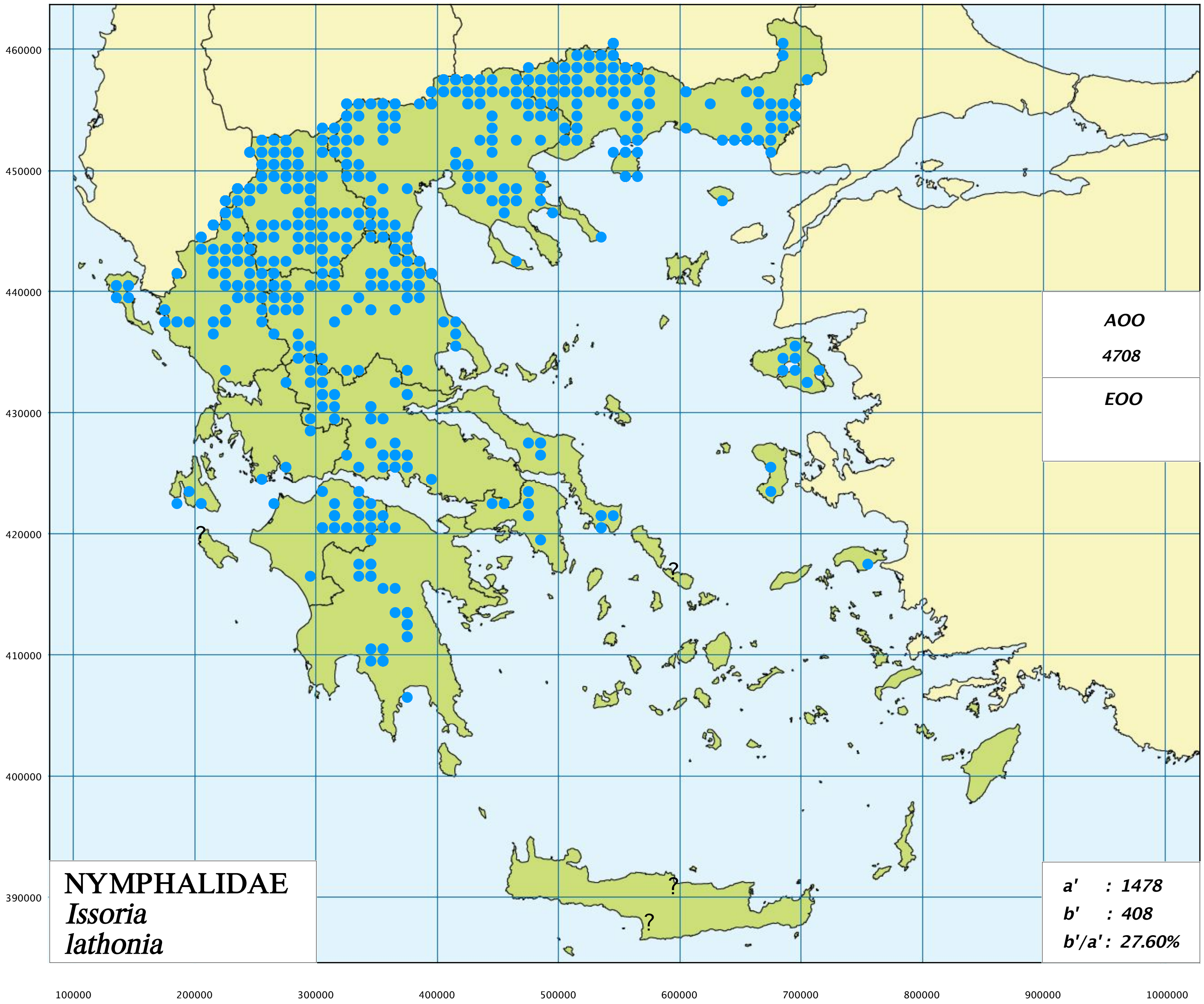

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4340
EOO
NYMPHALIDAE
Argynnis
paphia
a' : 1478
b' : 369
b'/a' : 24.96%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1572
EOO
NYMPHALIDAE
Argynnis
aglaja
a' : 1478
b' : 165
b'/a' : 11.16%

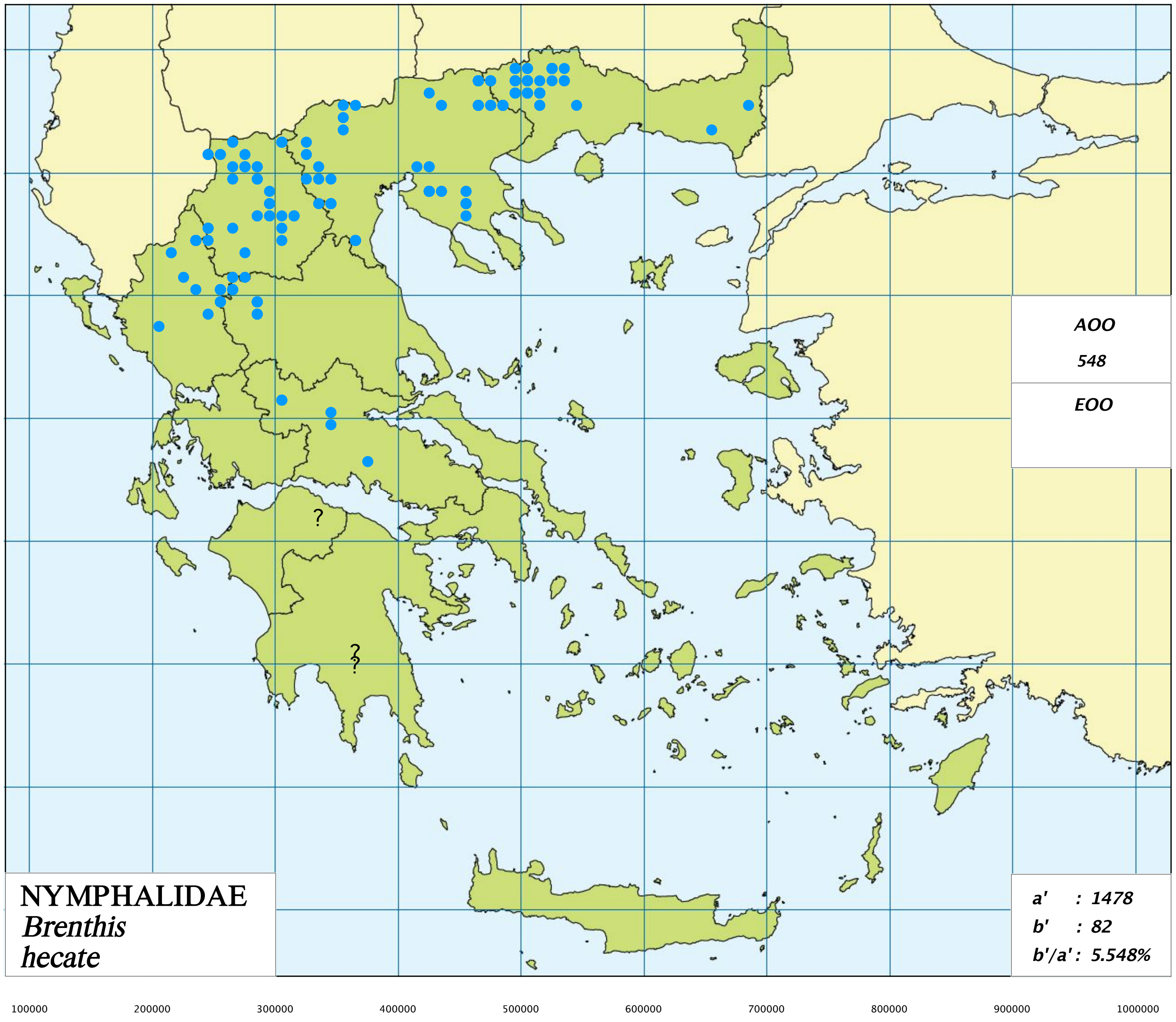

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1408
EOO
NYMPHALIDAE
Argynnis
adippe
a' : 1478
b' : 157
b'/a' : 10.62%
?
?

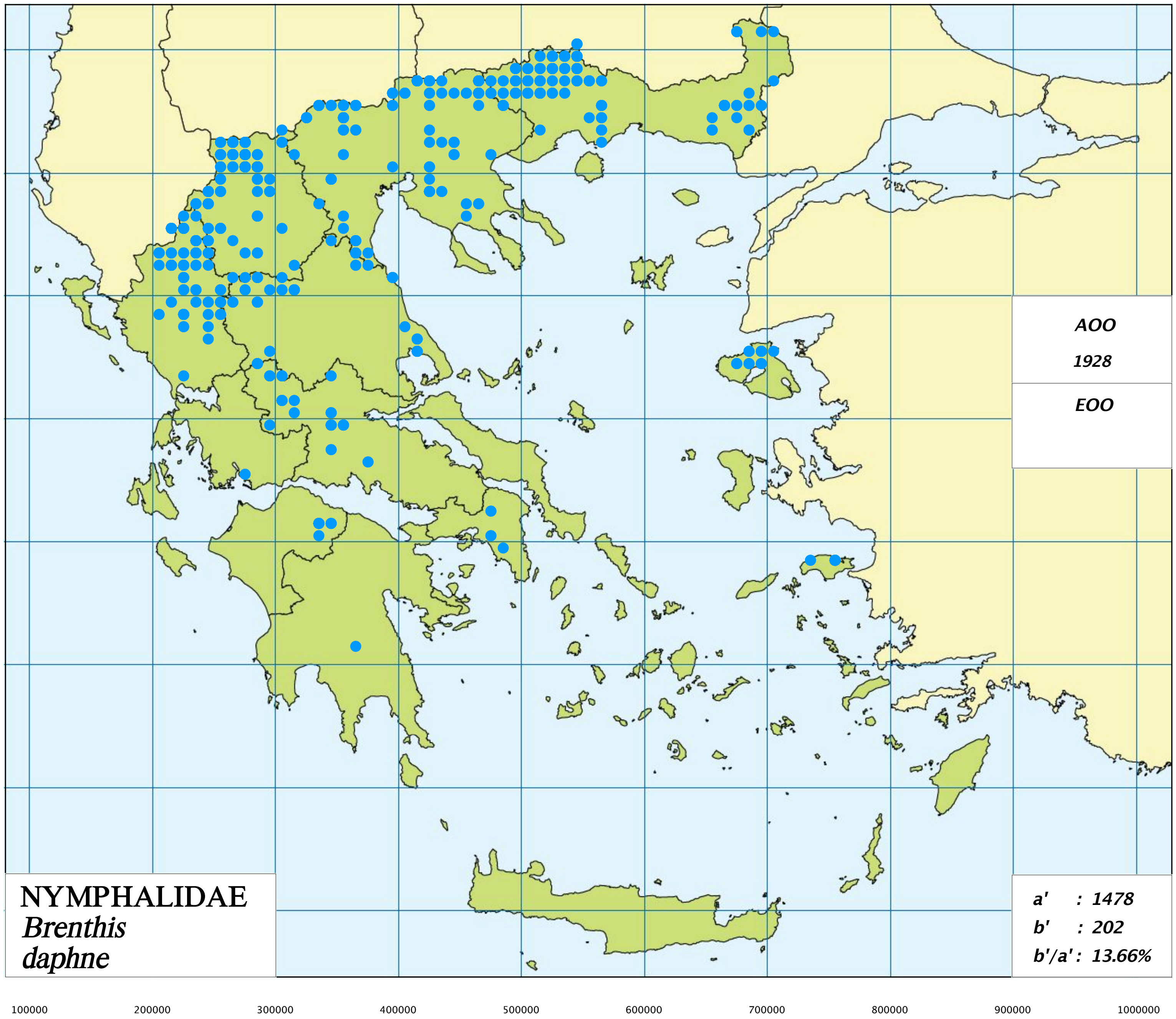


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1164
EOO
NYMPHALIDAE
Argynnis niobe
a' : 1478
b' : 134
b'/a' : 9.066%

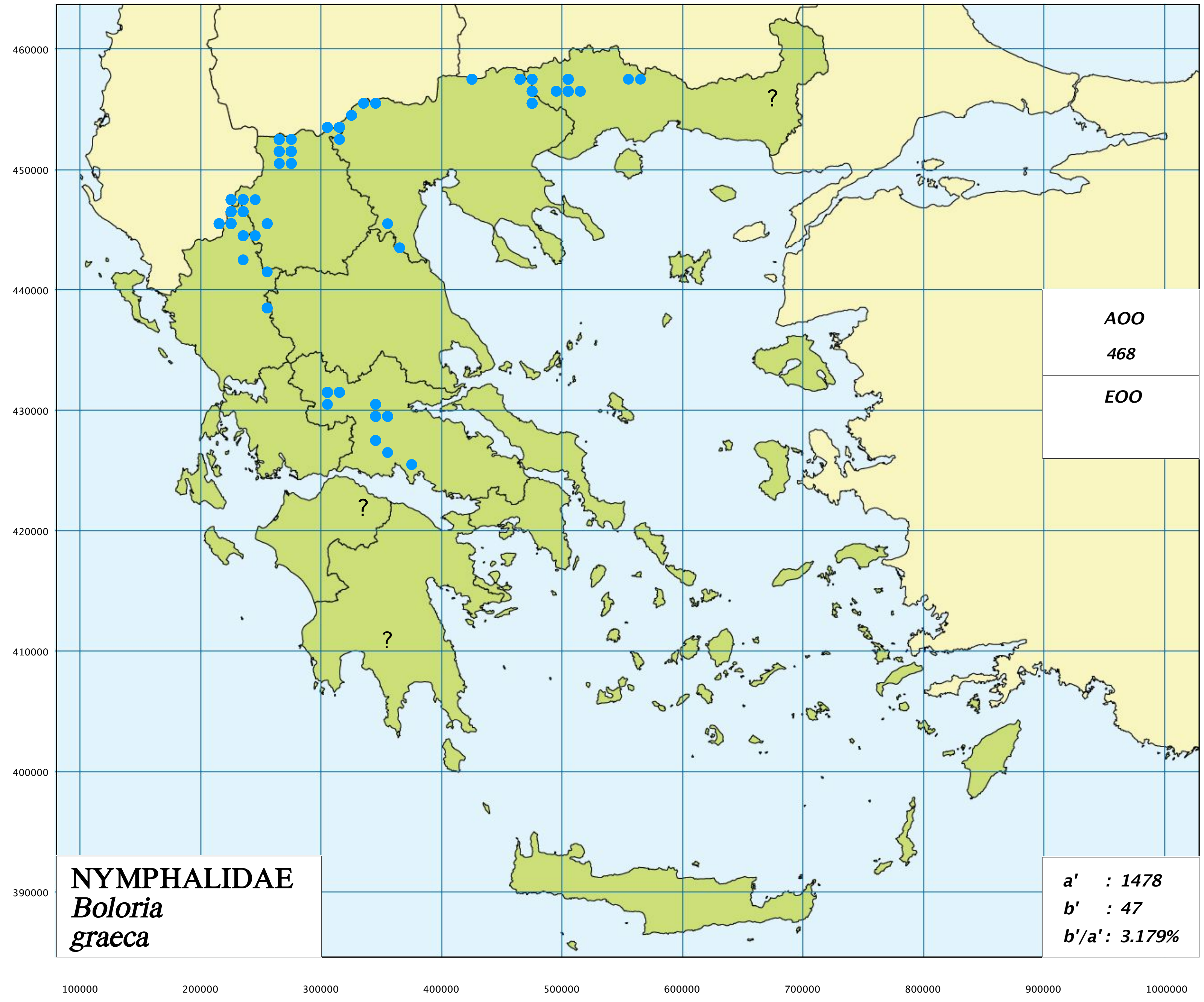


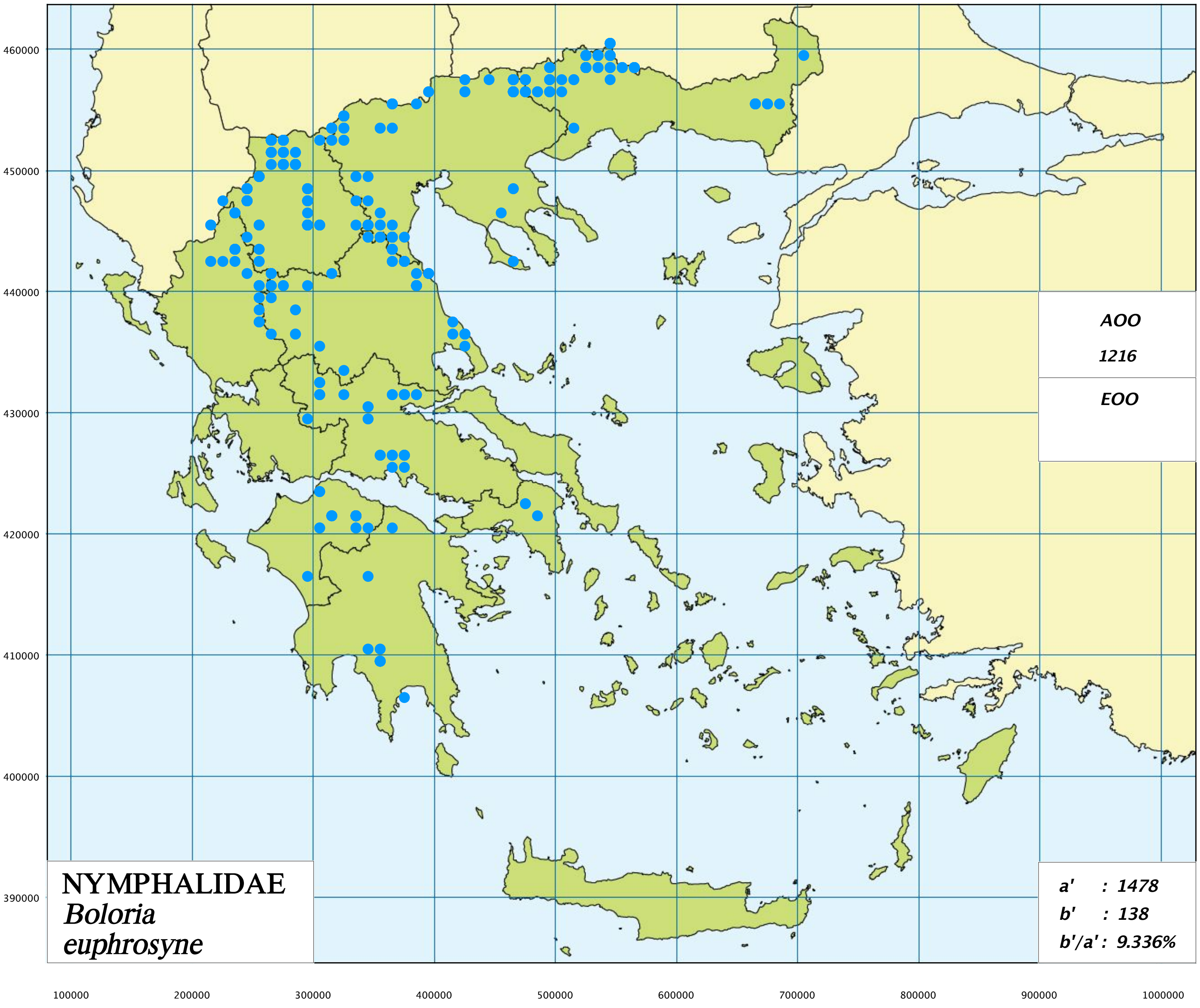
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
4708
EOO
NYMPHALIDAE
Issoria
lathonia
a' : 1478
b' : 408
b'/a' : 27.60%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
548
EOO
?
?
?
NYMPHALIDAE
Brenthis
hecate
a' : 1478
b' : 82
b'/a' : 5.548%

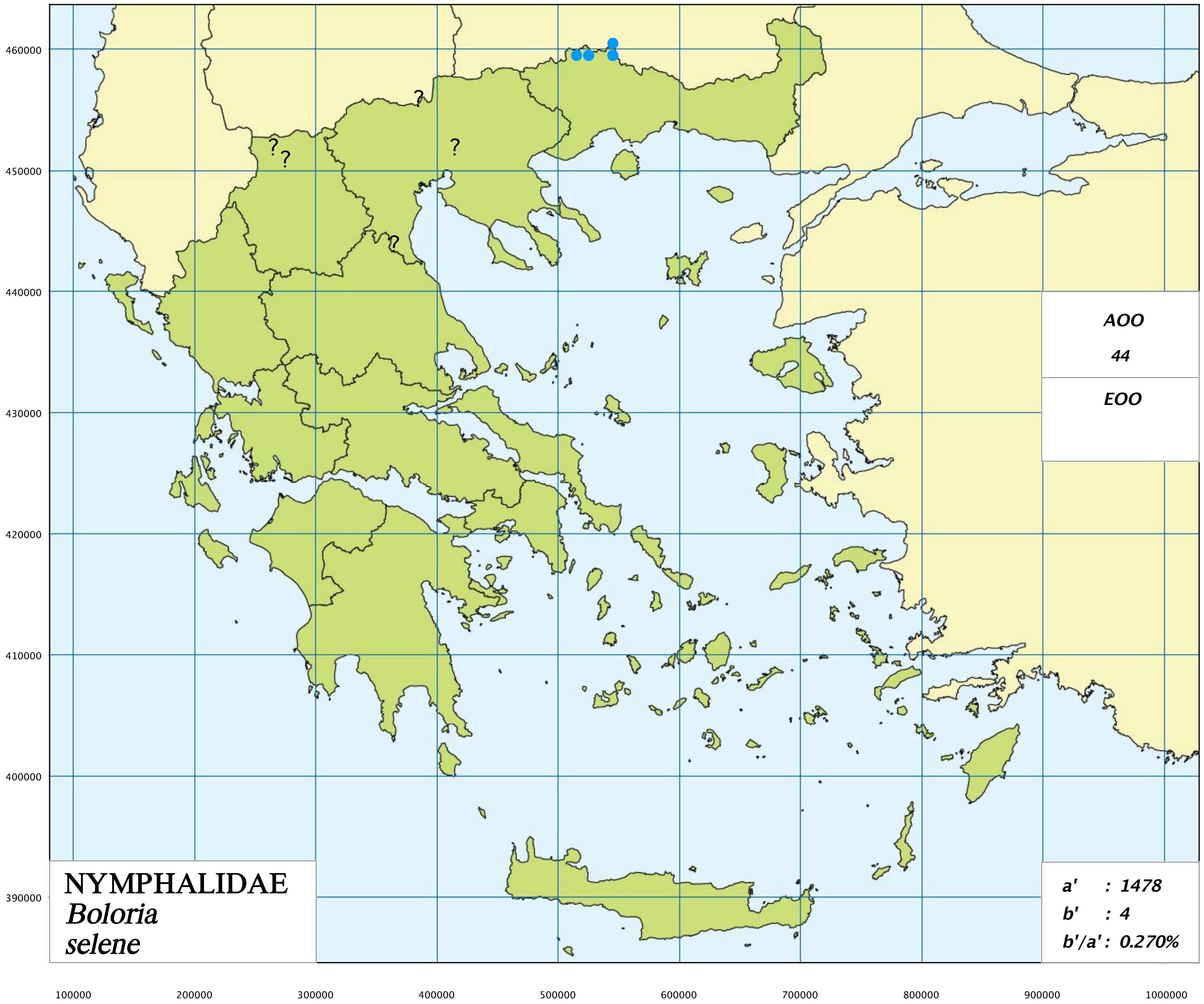


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1928
EOO
NYMPHALIDAE
Brenthis daphne
a' : 1478
b' : 202
b'/a' : 13.66%

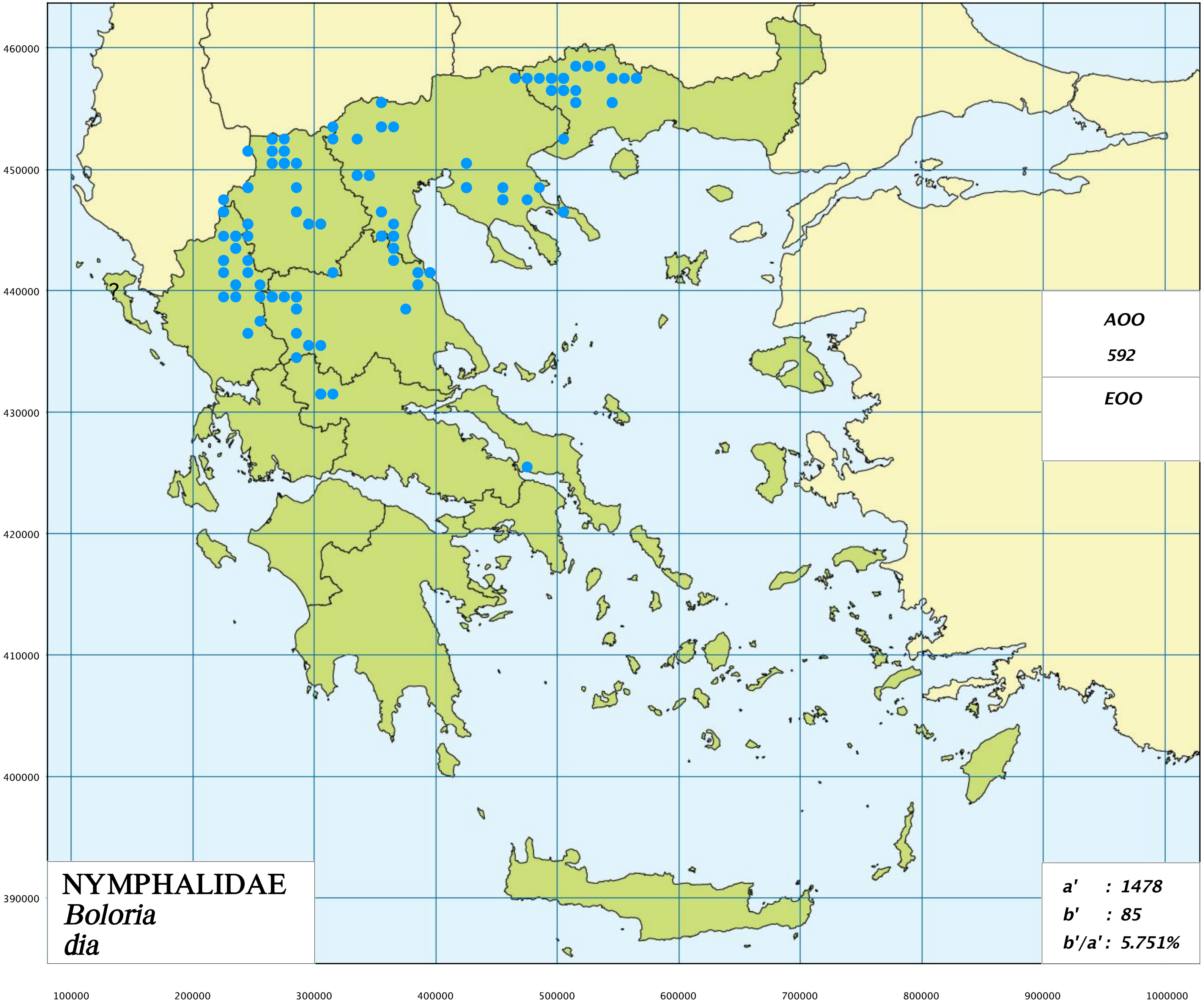

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
468
EOO
NYMPHALIDAE
Boloria
graeca
a' : 1478
b' : 47
b'/a' : 3.179%



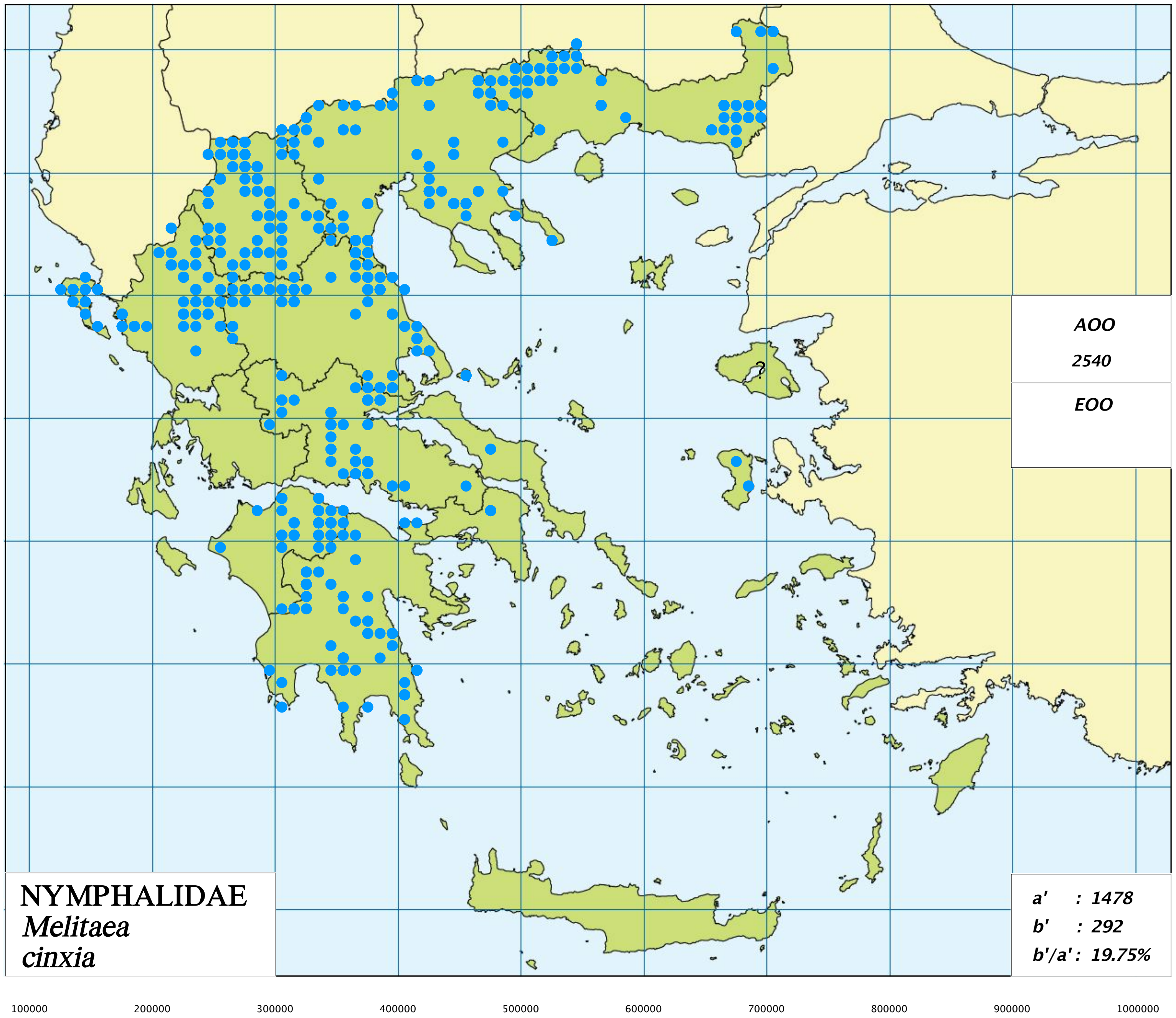
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1216
EOO
NYMPHALIDAE
Boloria euphrosyne
a' : 1478
b' : 138
b'/a' : 9.336%



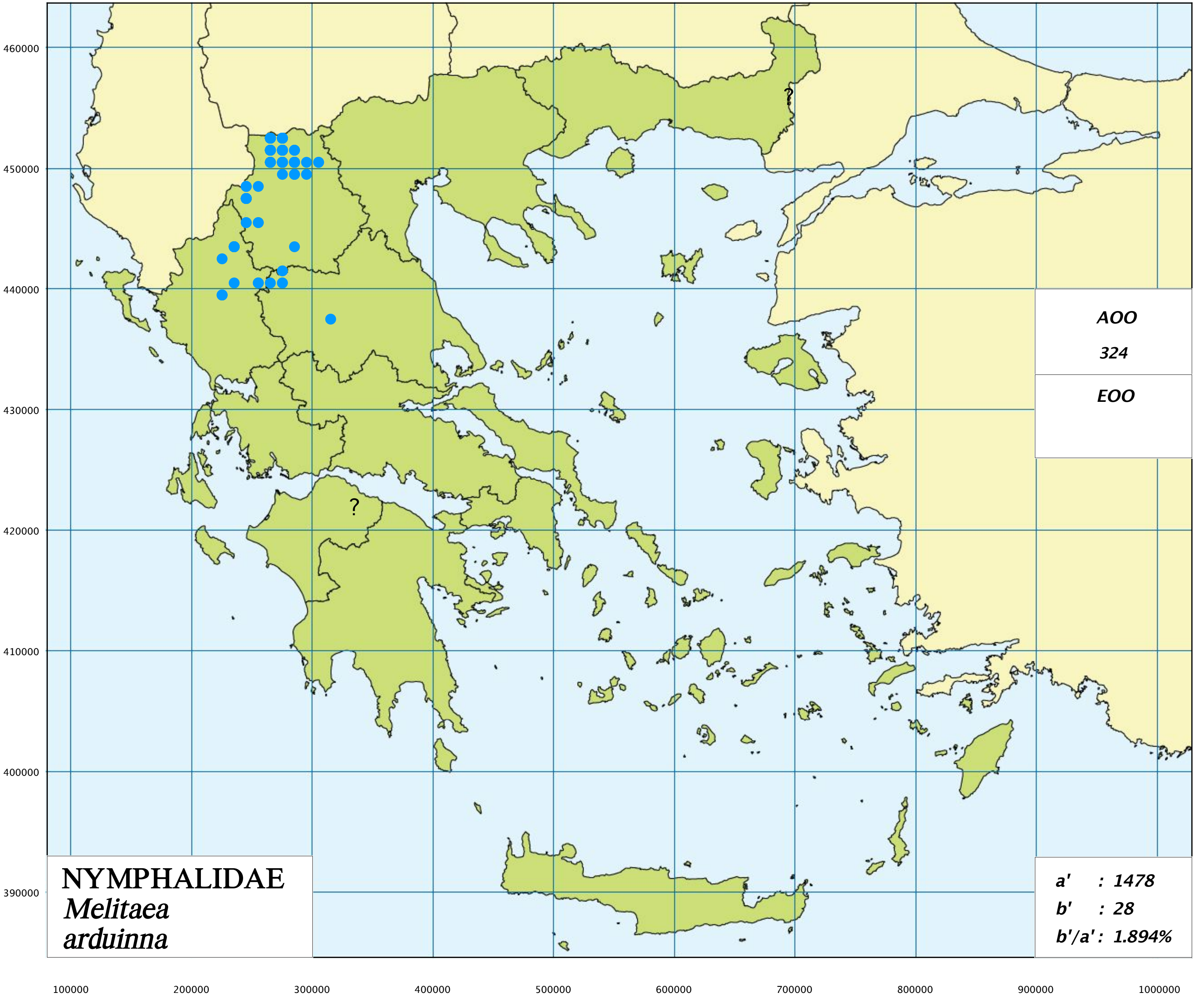
NYMPHALIDAE
Boloria
selene
AOO
44
EOO
a' : 1478
b' : 4
b'/a' : 0.270%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
?

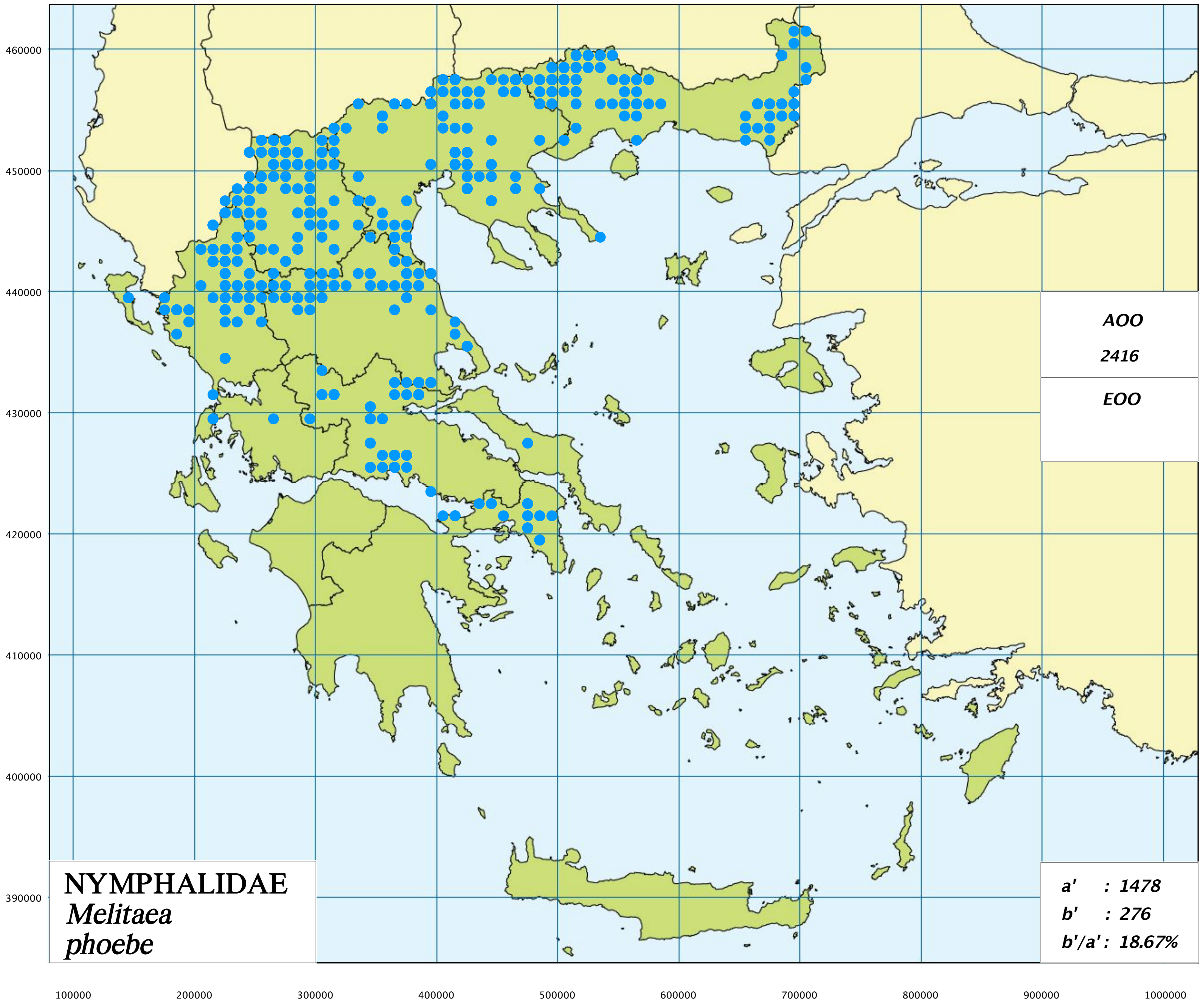


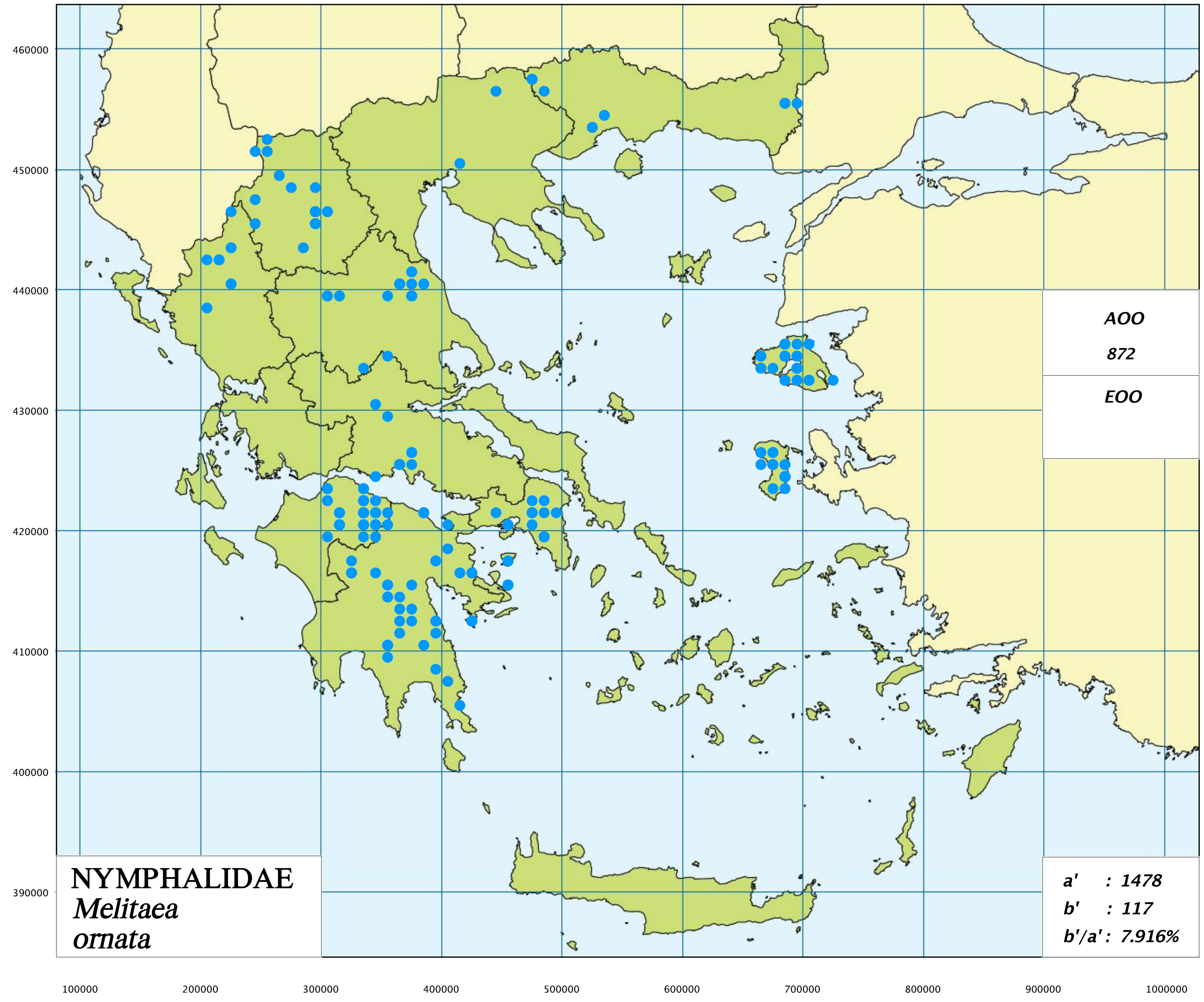
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
592
EOO
NYMPHALIDAE
Boloria
dia
a' : 1478
b' : 85
b'/a' : 5.751%

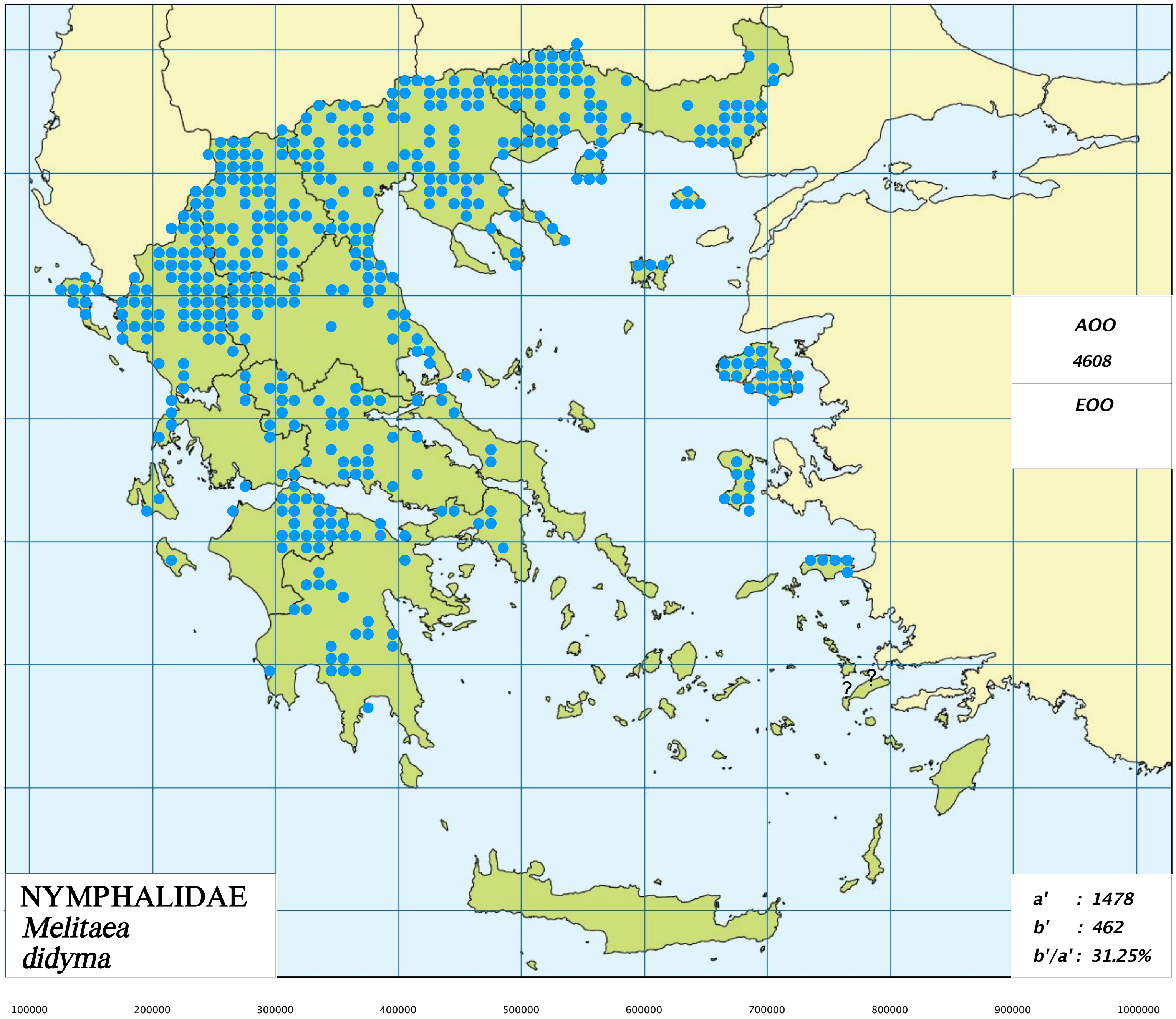


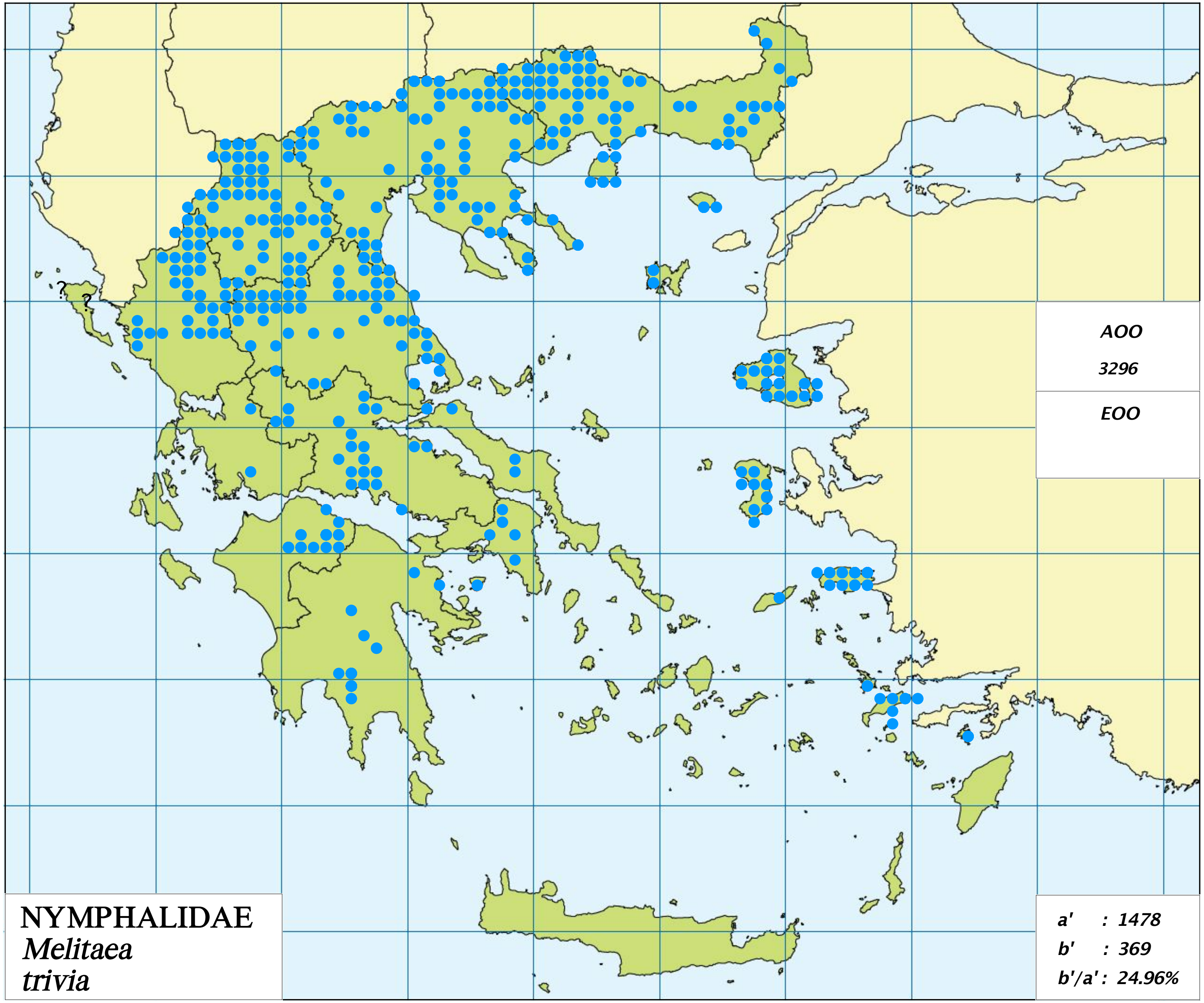
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2540
EOO
?
NYMPHALIDAE
Melitaea
cinxia
a' : 1478
b' : 292
b'/a' : 19.75%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
324
EOO
NYMPHALIDAE
Melitaea arduinna
a' : 1478
b' : 28
b'/a' : 1.894%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2416
EOO
NYMPHALIDAE
Melitaea
phoebe
a' : 1478
b' : 276
b'/a' : 18.67%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
872
EOO
NYMPHALIDAE
Melitaea
ornata
a' : 1478
b' : 117
b'/a' : 7.916%

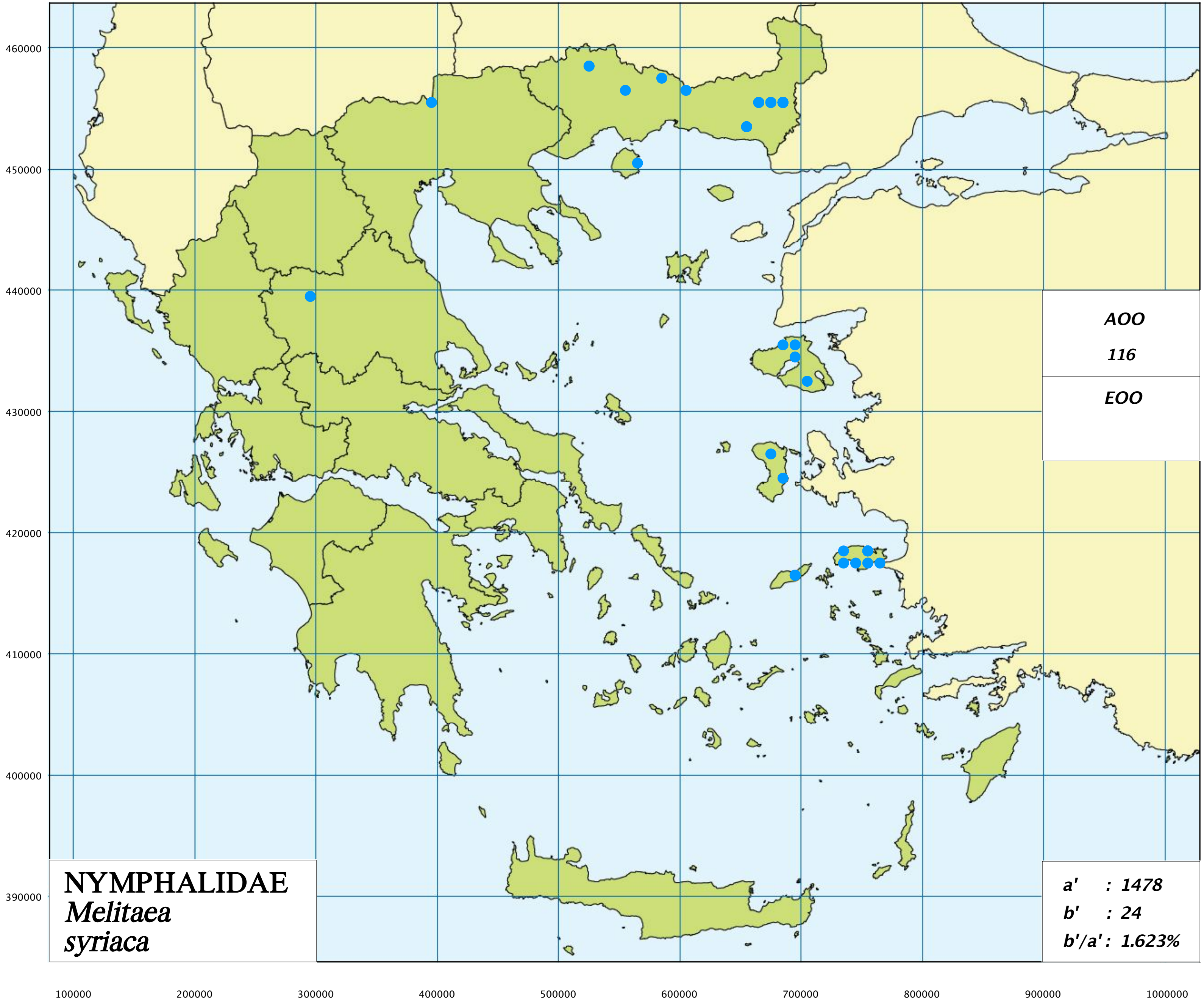

NYMPHALIDAE
Melitaea
didyma
AOO
4608
EOO
a' : 1478
b' : 462
b'/a' : 31.25%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000



The species *Melitaea syriaca* (with the same external characters of *Melitaea trivia*) found to fly mainly in Eastern Macedonia, Thrace and Eastern Aegean islands of Greece (see in van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)

Το είδος *Melitaea syriaca* (με τα ίδια εξωτερικά χαρακτηριστικά με το *Melitaea trivia*) βρέθηκε να πετά κυρίως στην Ανατολική Μακεδονία, στην Θράκη και στα νησιά του Ανατολικού Αιγαίου της Ελλάδας (δες στο van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)

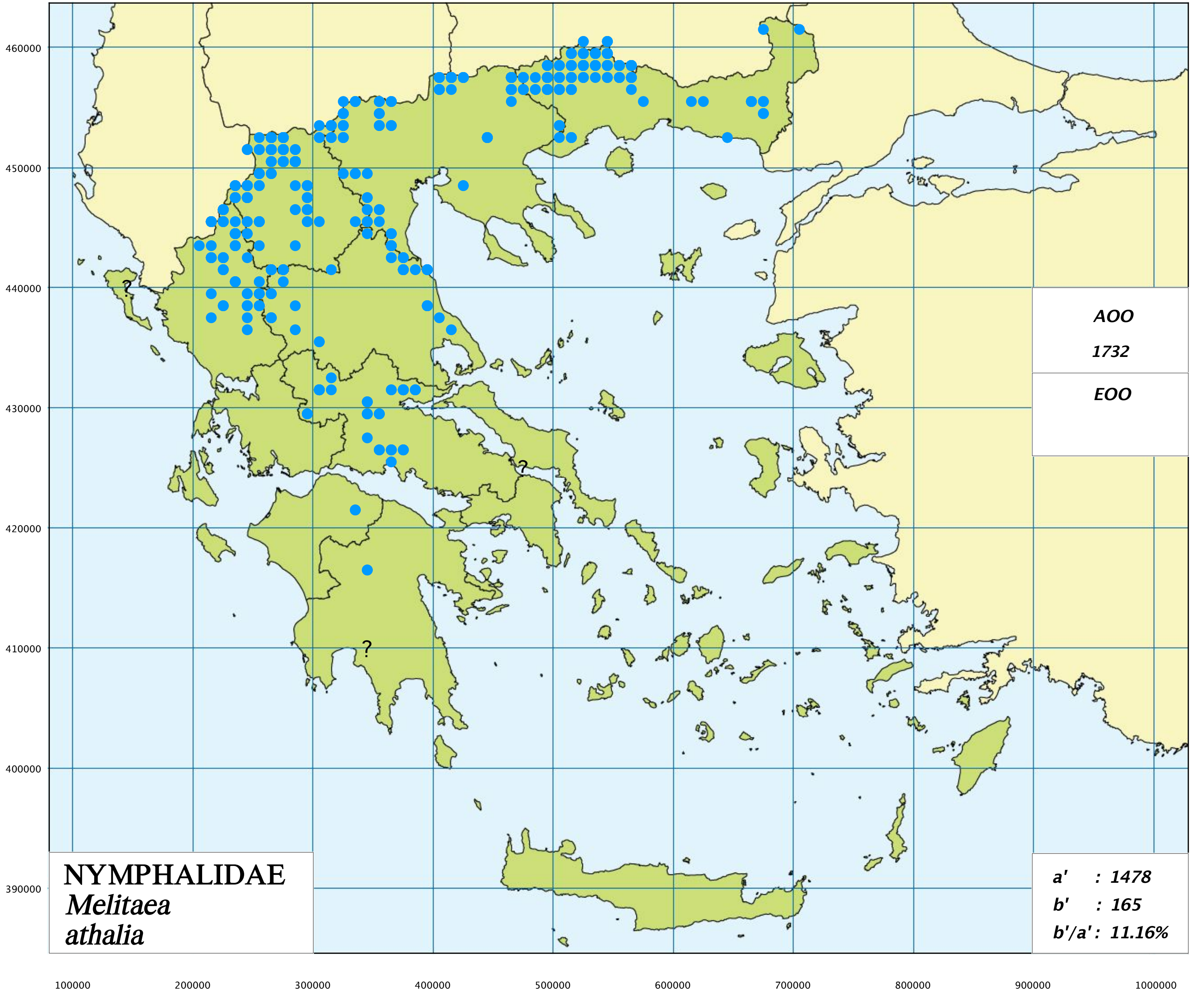
Αμφίβολη αναγνώριση / Identification uncertain

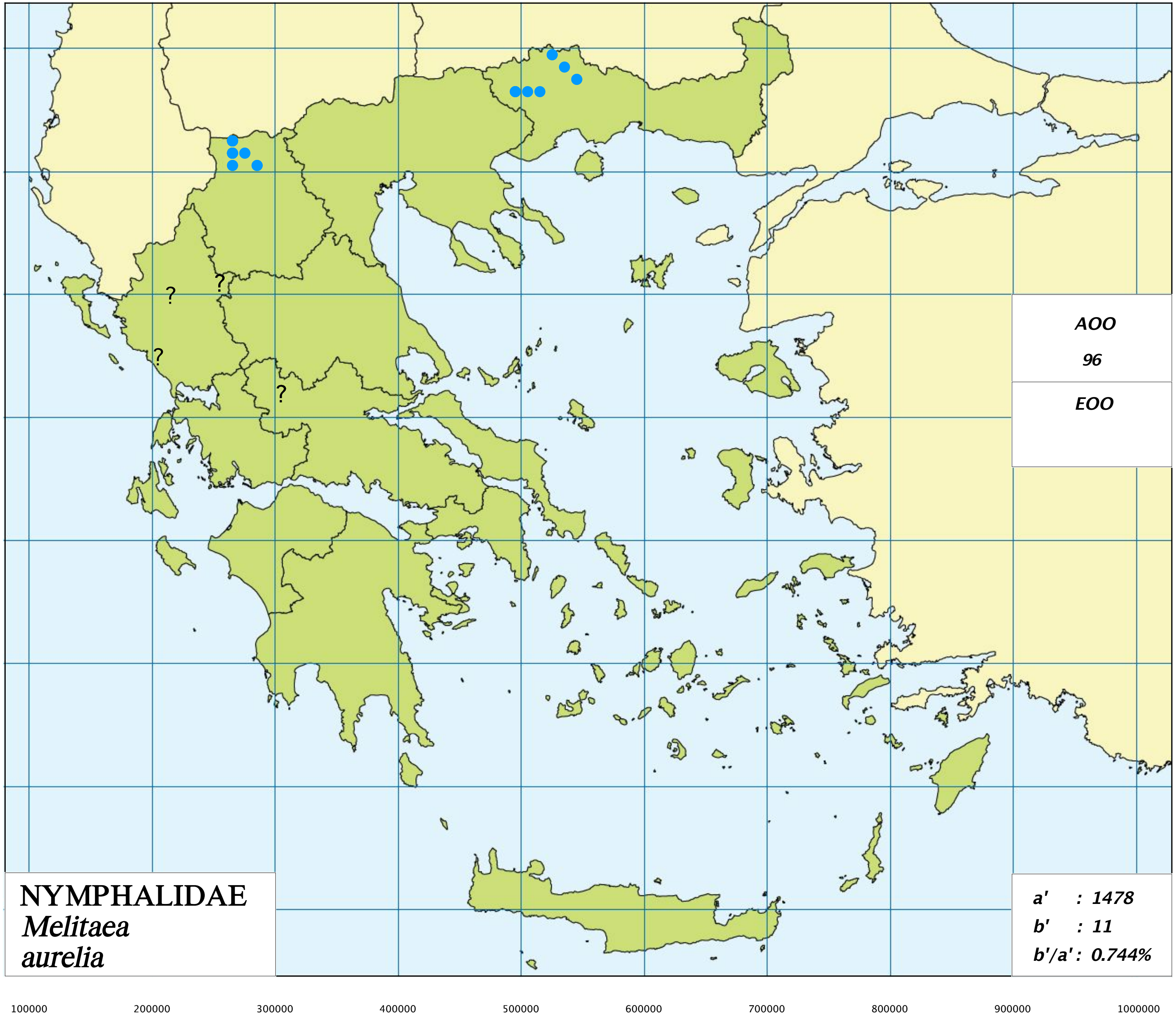


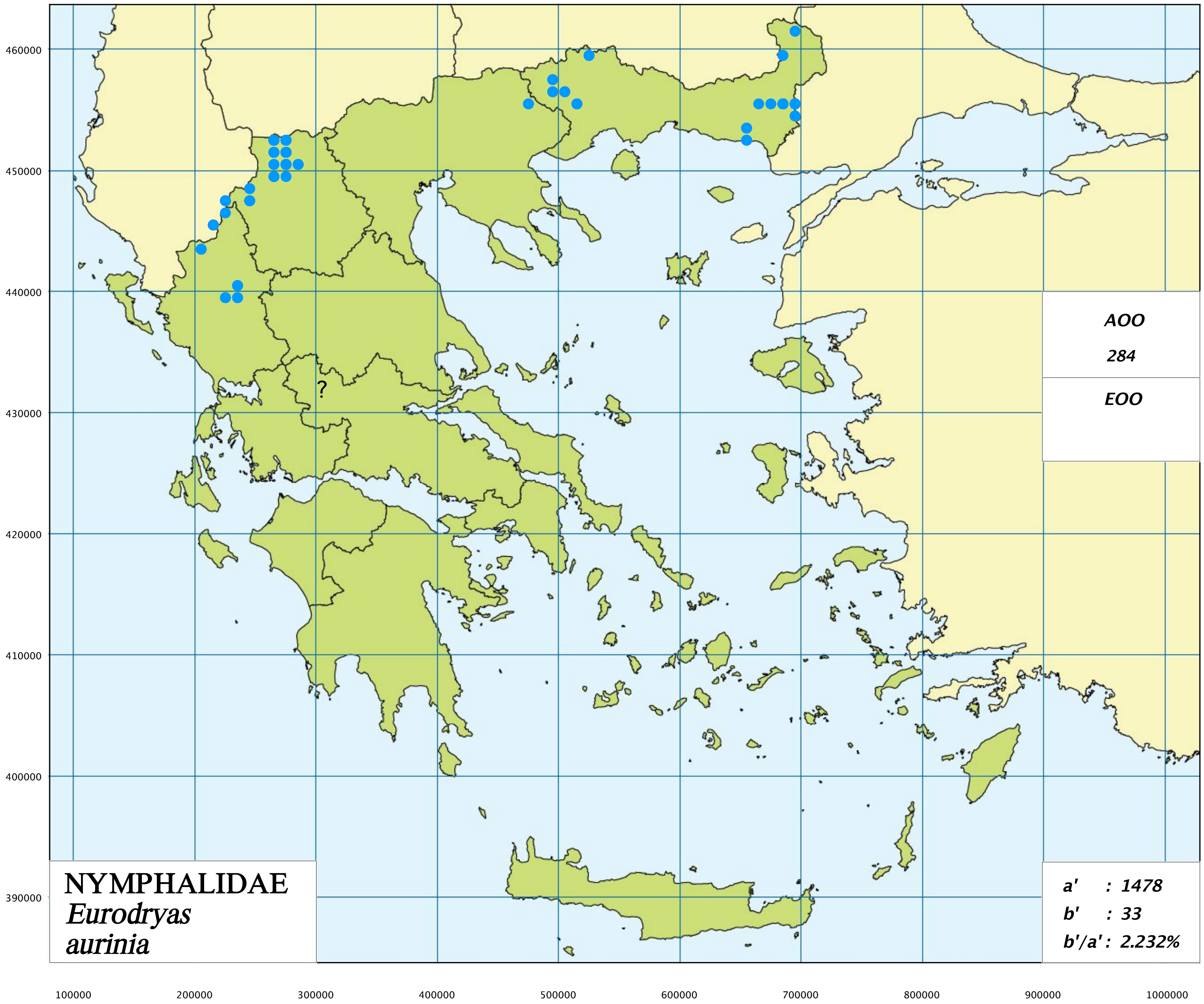
The species Melitaea syriaca (with the same external characters of Melitaea trivia) found to fly mainly in Eastern Macedonia, Thrace and Eastern Aegean islands of Greece (see in van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)

Το είδος Melitaea syriaca (με τα ίδια εξωτερικά χαρακτηριστικά με το Melitaea trivia) βρέθηκε να πετά κυρίως στην Ανατολική Μακεδονία, στην Θράκη και στα νησιά του Ανατολικού Αιγαίου της Ελλάδας (δες στο van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)

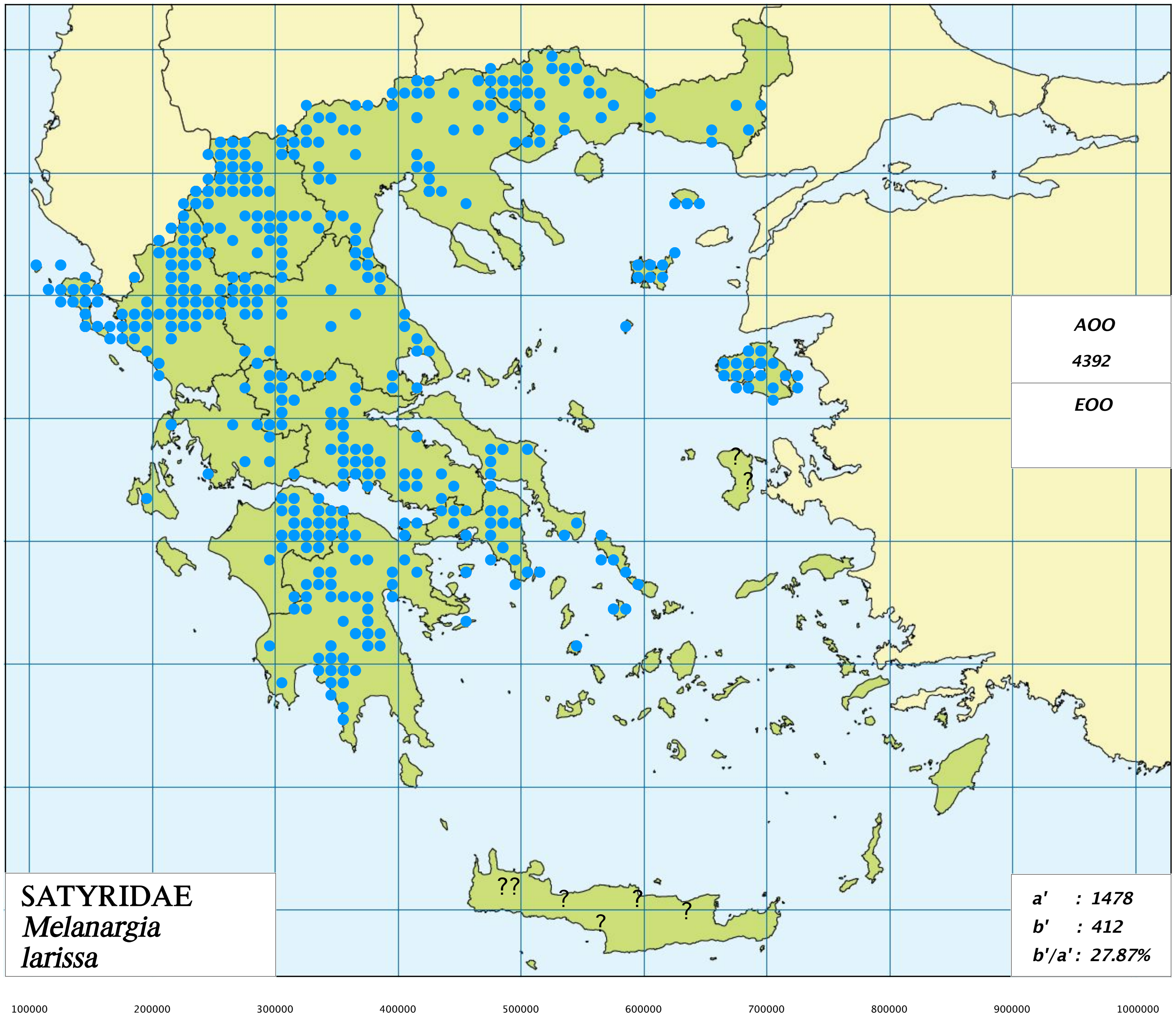
Αμφίβολη αναγνώριση / Identification uncertain

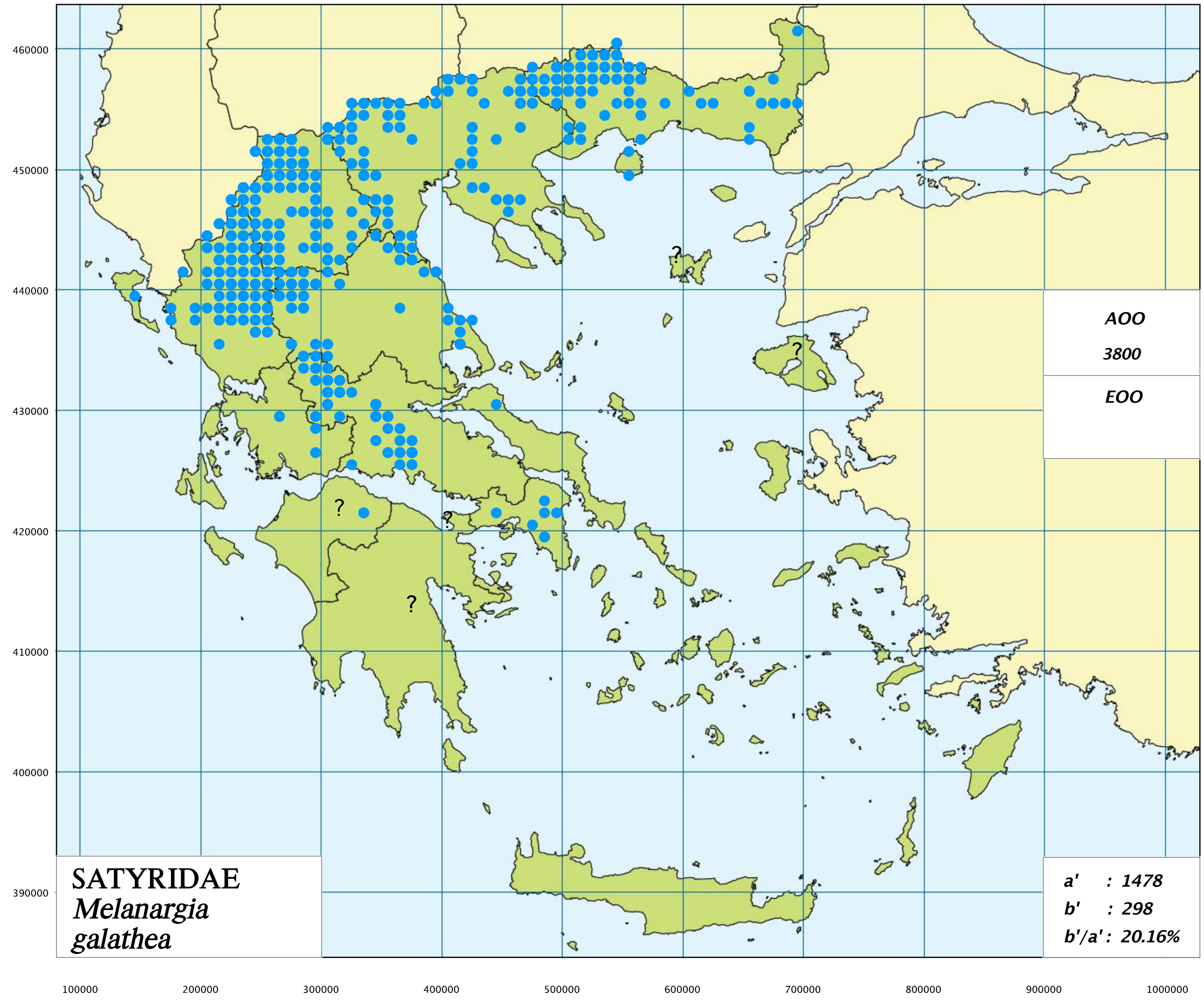

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1732
EOO
NYMPHALIDAE
Melitaea
athalia
a' : 1478
b' : 165
b'/a' : 11.16%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
96
EOO
NYMPHALIDAE
Melitaea
aurelia
a' : 1478
b' : 11
b'/a' : 0.744%

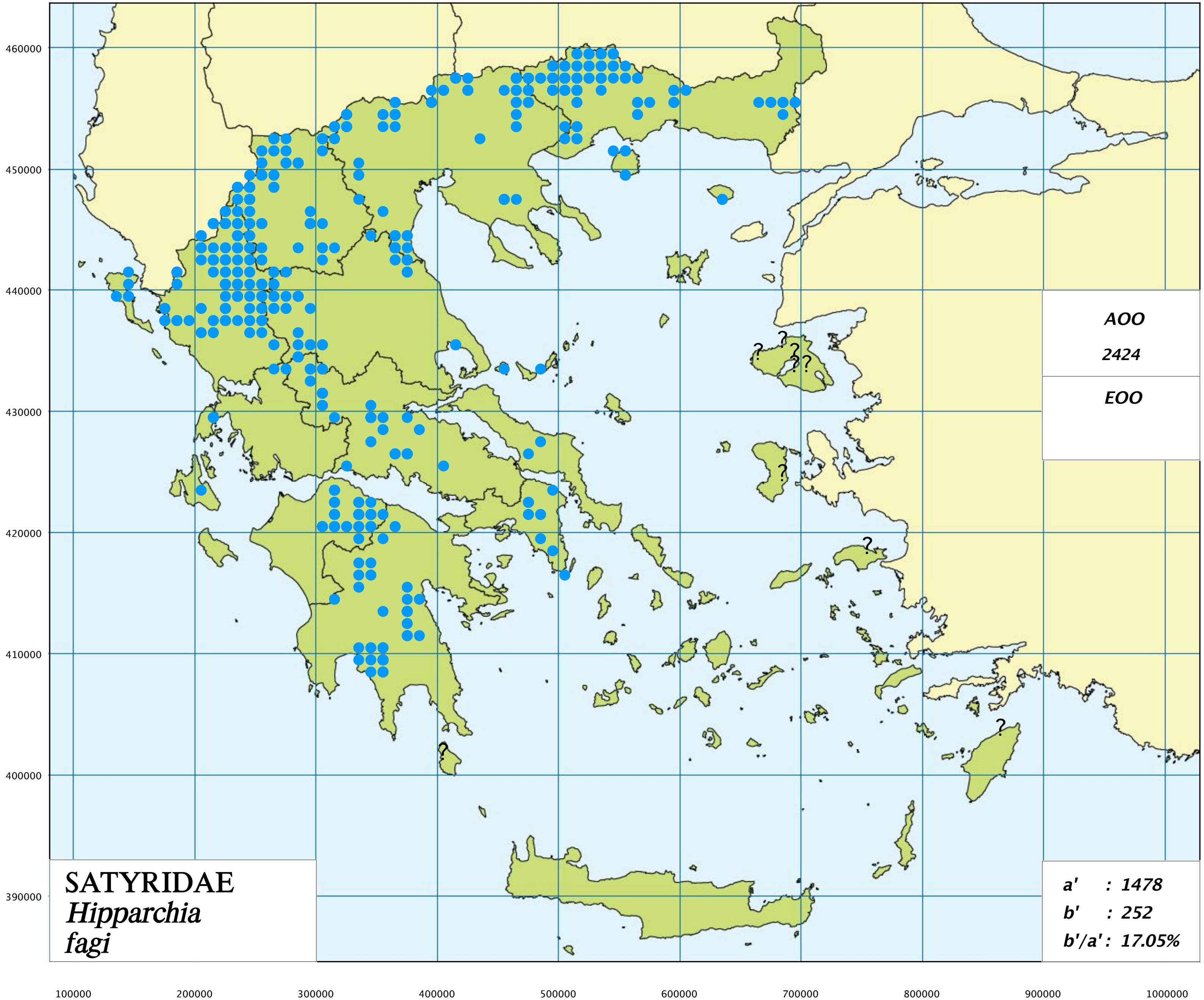

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
284
EOO
NYMPHALIDAE
Eurodryas aurinia
a' : 1478
b' : 33
b'/a' : 2.232%

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
444
EOO
SATYRIDAE
Melanargia russiae
a' : 1478
b' : 44
b'/a' : 2.976%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4392
EOO
SATYRIDAE
Melanargia
larissa
a' : 1478
b' : 412
b'/a' : 27.87%



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3800
EOO
SATYRIDAE
Melanargia galathea
a' : 1478
b' : 298
b'/a' : 20.16%

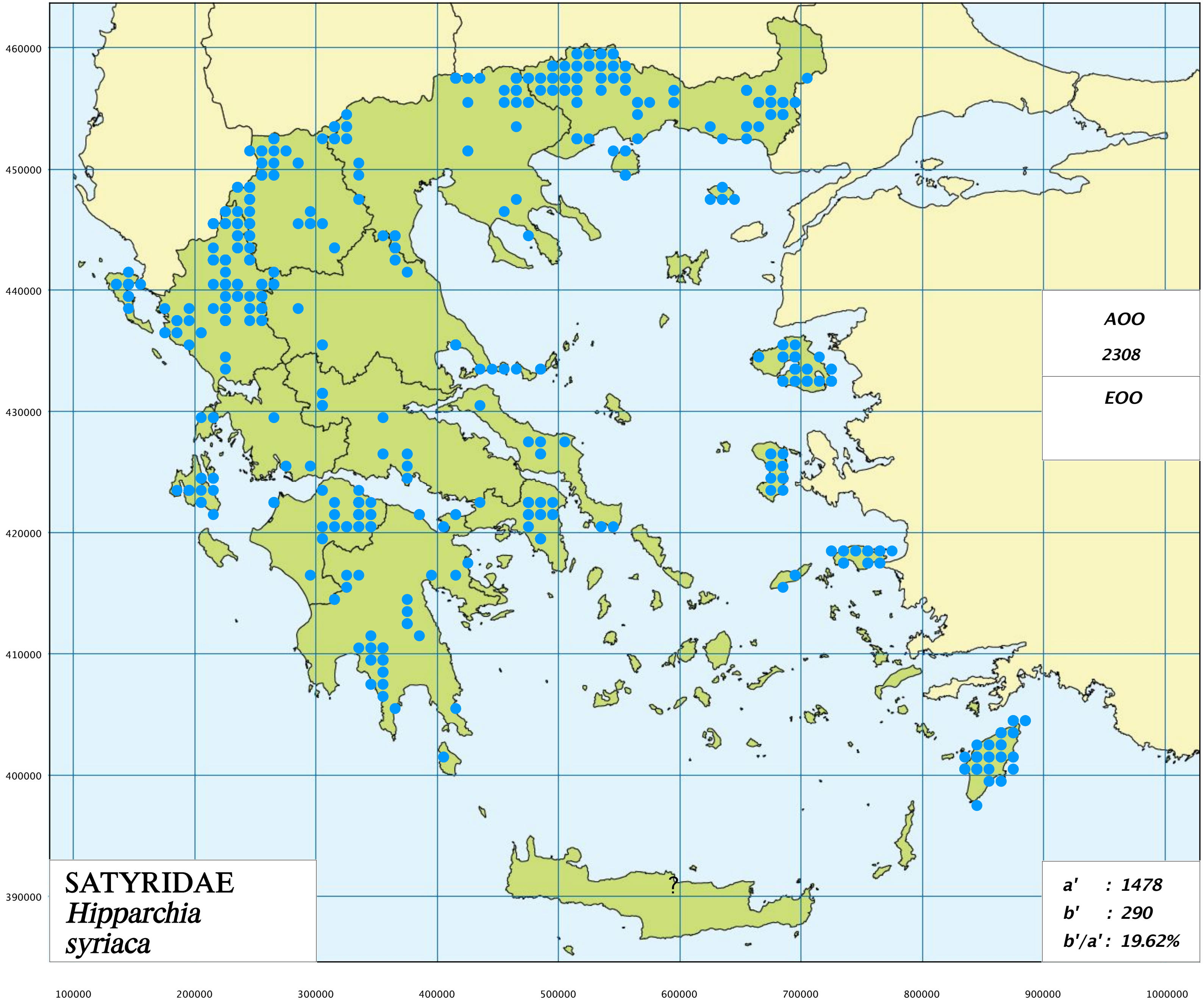


Separation by external characters only of Hipparchia fagi and Hipparchia syriaca has been questioned (see in DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological Sciences.Published online before print August 11, 2010, doi:10.1098/rspb.2010.1089.)

Ο διαχωρισμός των Hipparchia fagi και Hipparchia syriaca με βάσει τα εξωτερικά χαρακτηριστικά αμφισβητήθηκε (δες στο DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological SciencesPublished online before print August 11, 2010, doi:10.1098/rspb.2010.1089.)

See also in http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

Δες επισης στο http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

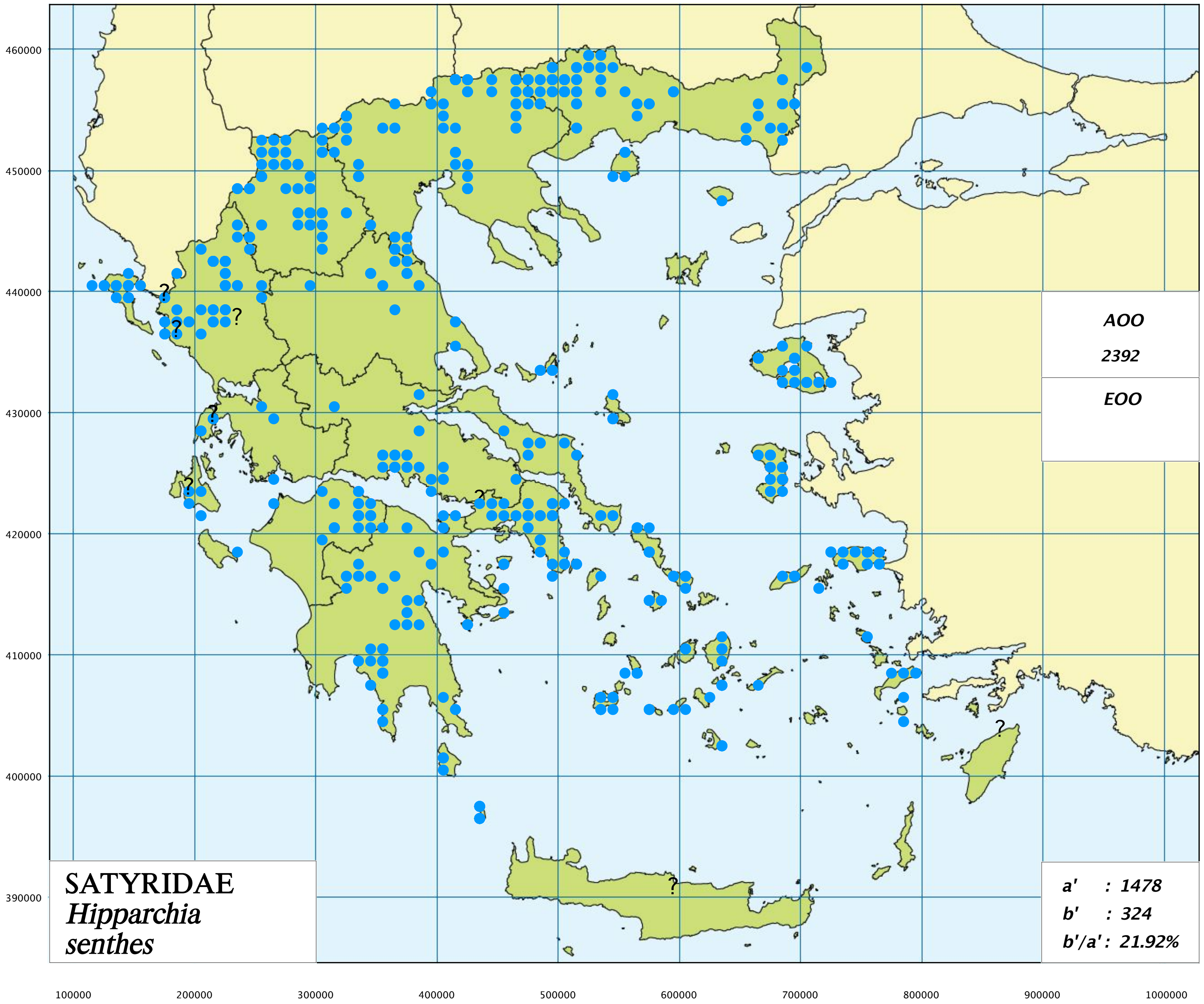


Separation by external characters only of *Hipparchia fagi* and *Hipparchia syriaca* has been questioned (see in DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological Sciences.Published online before print August 11,2010, doi:10.1098/rspb.2010.1089.)

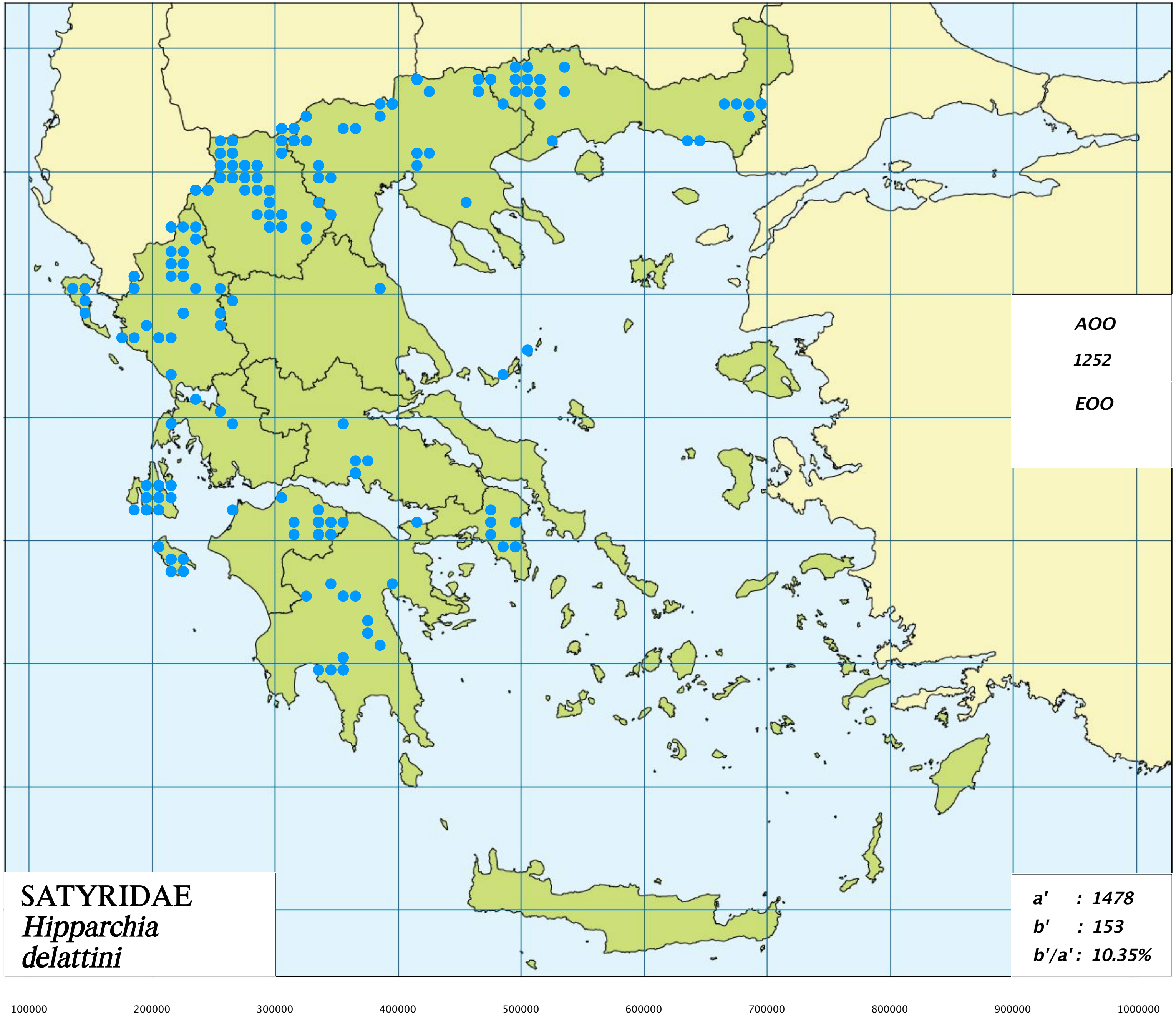
Ο διαχωρισμός των *Hipparchia fagi* και *Hipparchia syriaca* με βάσει τα εξωτερικά χαρακτηριστικά αμφισβητήθηκε (δες στο DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological SciencesPublished online before print August 11, 2010, doi:10.1098/rspb.2010.1089.)

See also in http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

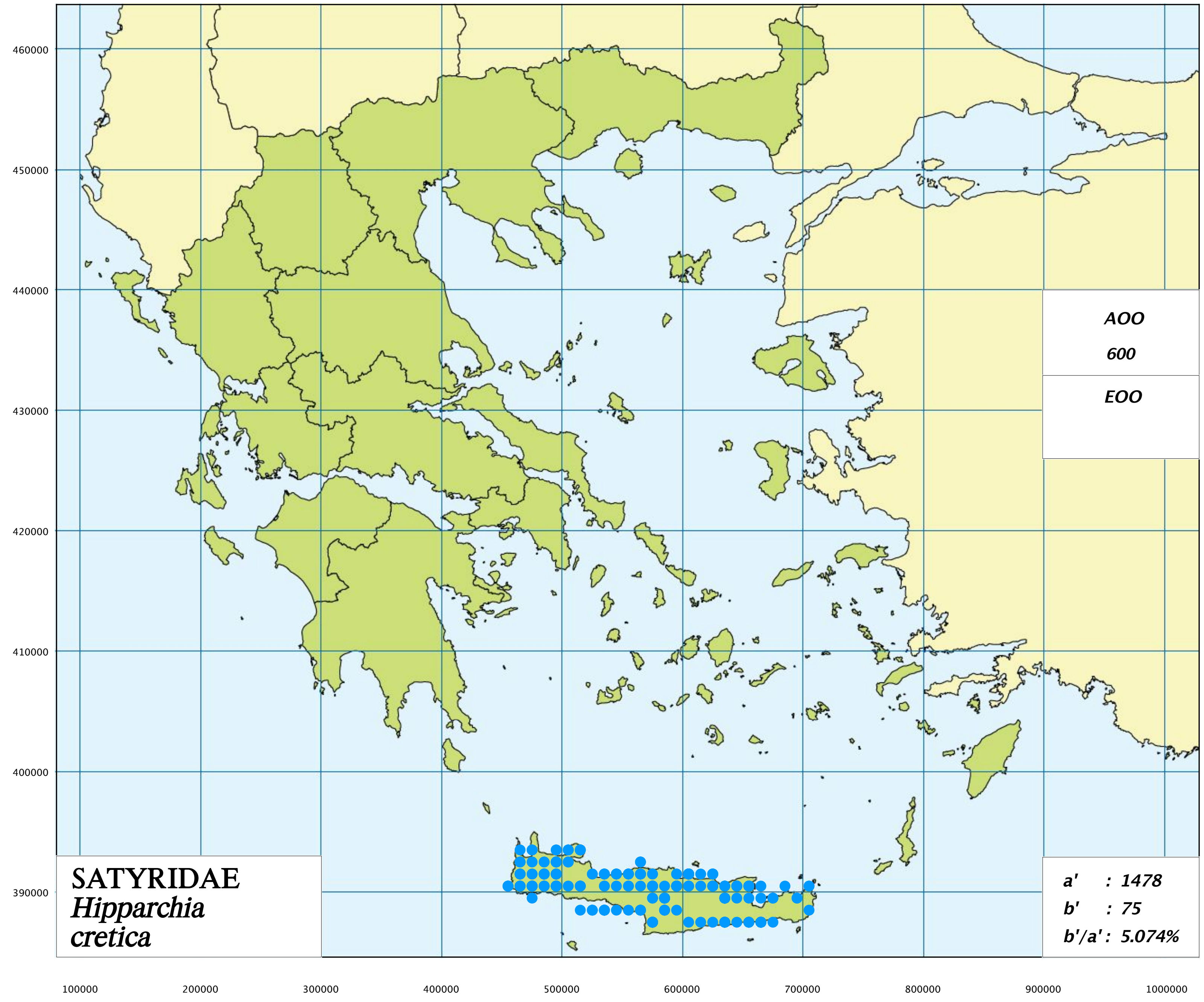
Δες επισης στο http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html



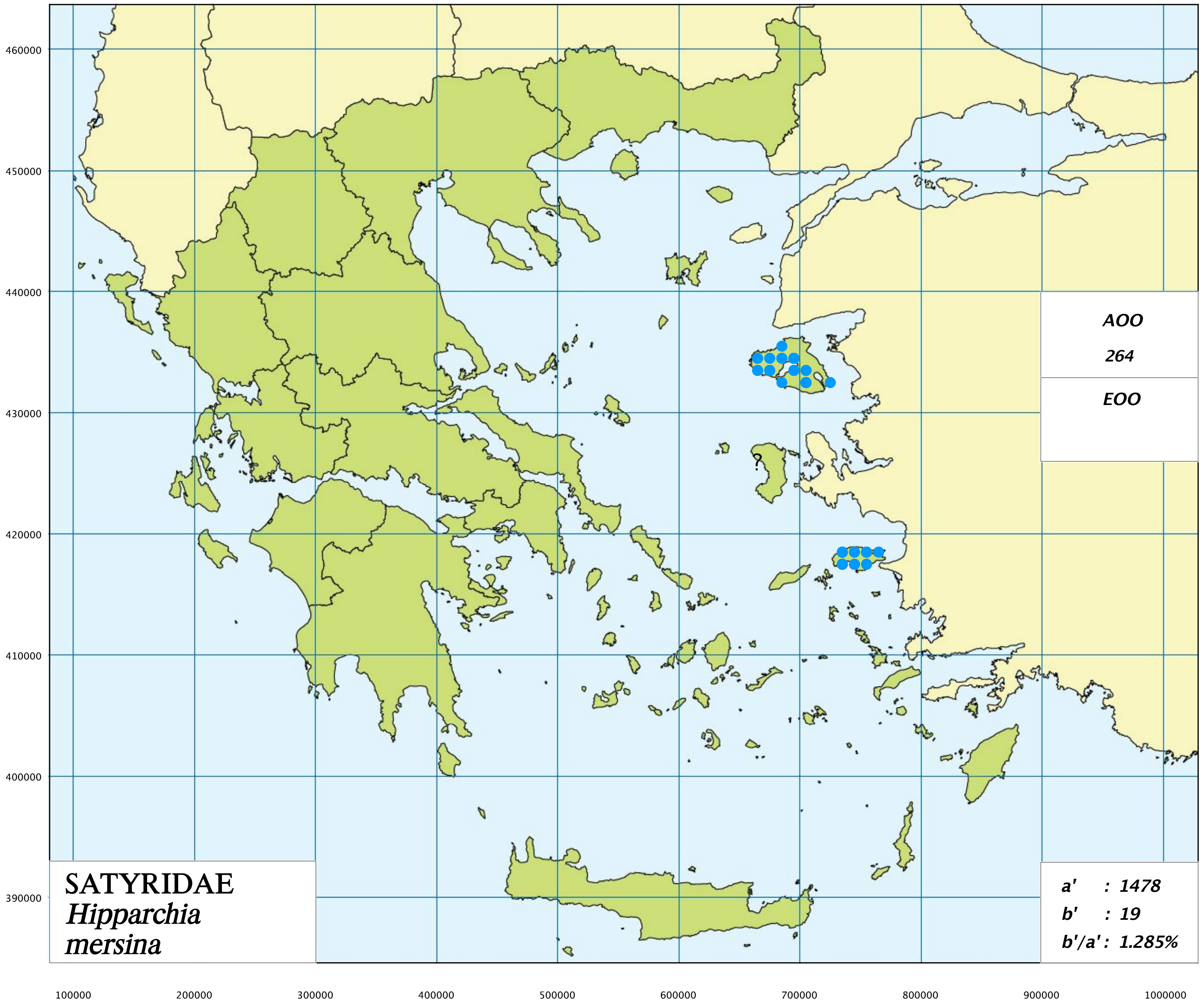
Αμφίβολη αναγνώριση / Identification uncertain



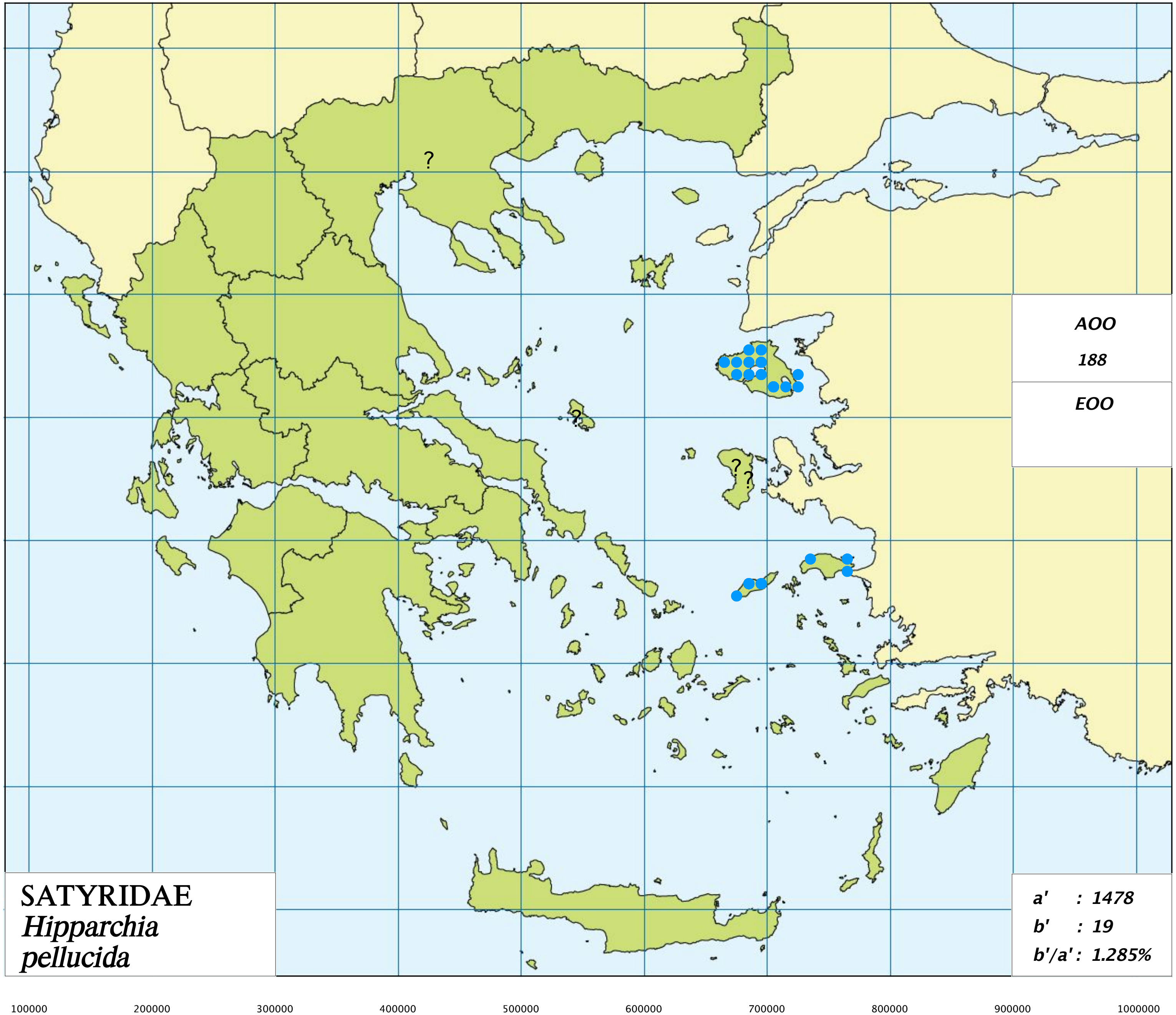
Αμφίβολη αναγνώριση / Identification uncertain


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
600
EOO
SATYRIDAE
Hipparchia
cretica
a' : 1478
b' : 75
b'/a' : 5.074%

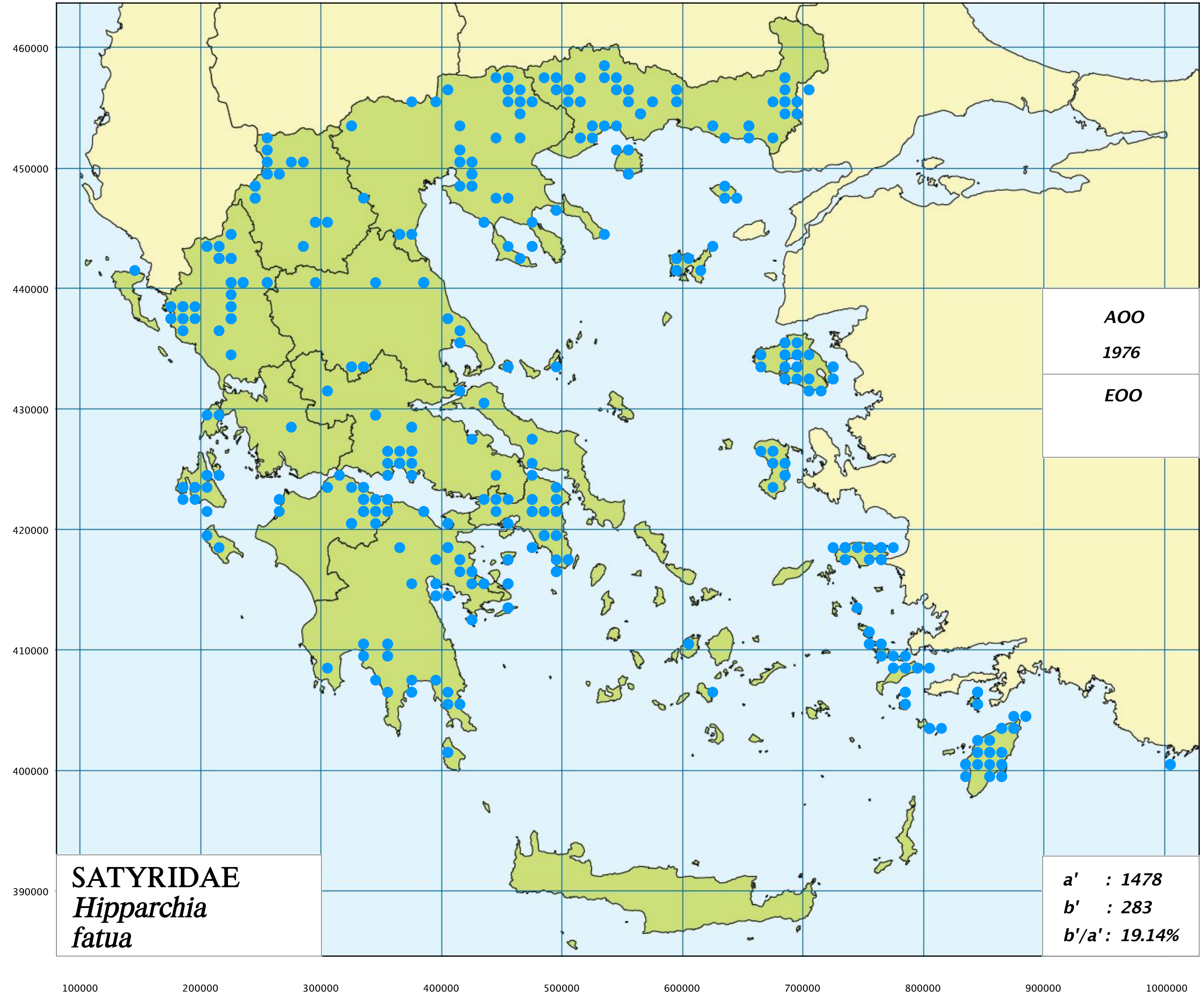

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
36
EOO
SATYRIDAE
Hipparchia christenseni
a' : 1478
b' : 3
b'/a' : 0.202%

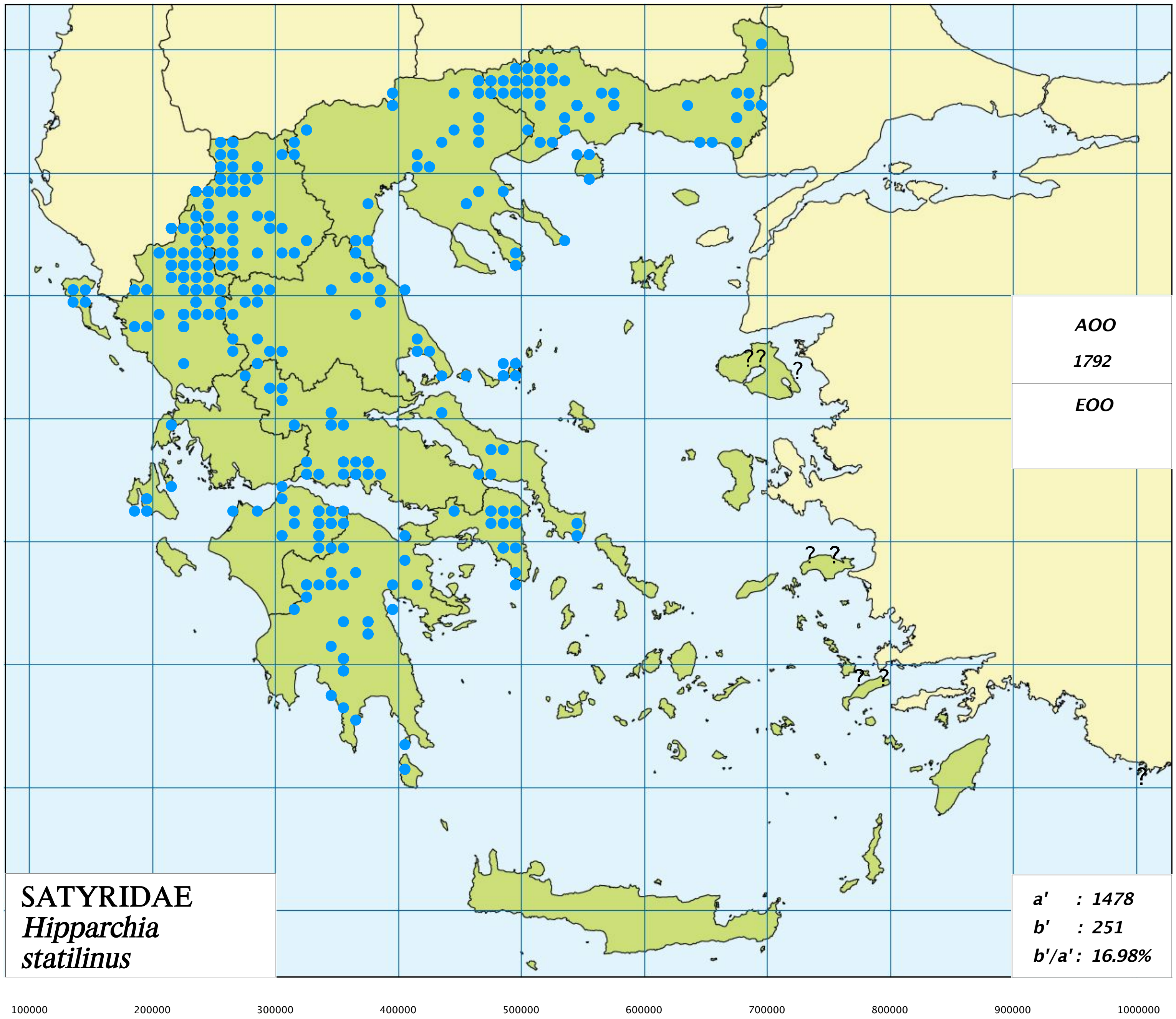


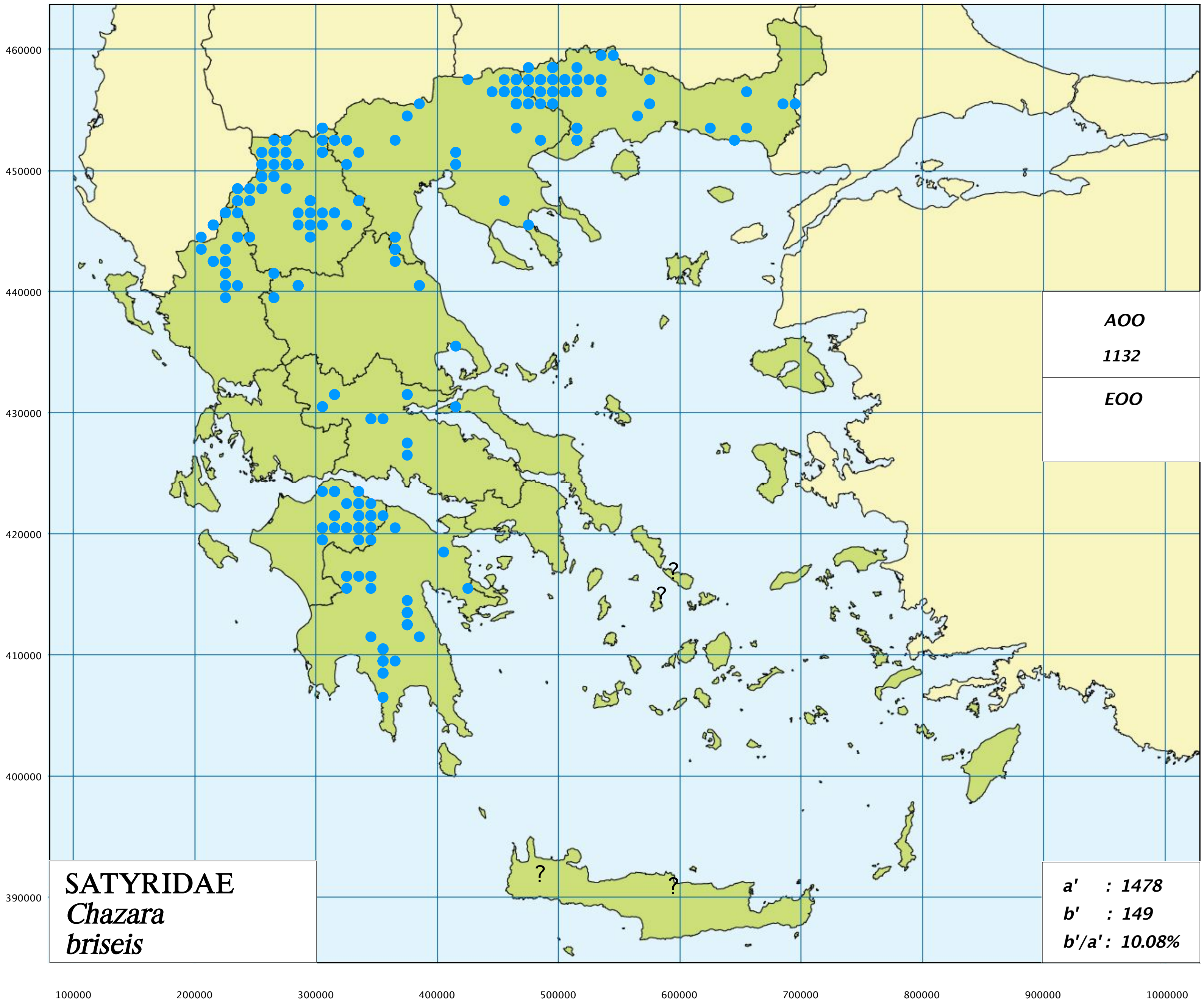
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
264
EOO
SATYRIDAE
Hipparchia mersina
a' : 1478
b' : 19
b'/a' : 1.285%



Αμφίβολη αναγνώριση / Identification uncertain


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1976
EOO
SATYRIDAE
Hipparchia
fatua
a' : 1478
b' : 283
b'/a' : 19.14%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1792
EOO
SATYRIDAE
Hipparchia statilinus
a' : 1478
b' : 251
b'/a' : 16.98%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1132
EOO
SATYRIDAE
Chazara briseis
a' : 1478
b' : 149
b'/a' : 10.08%

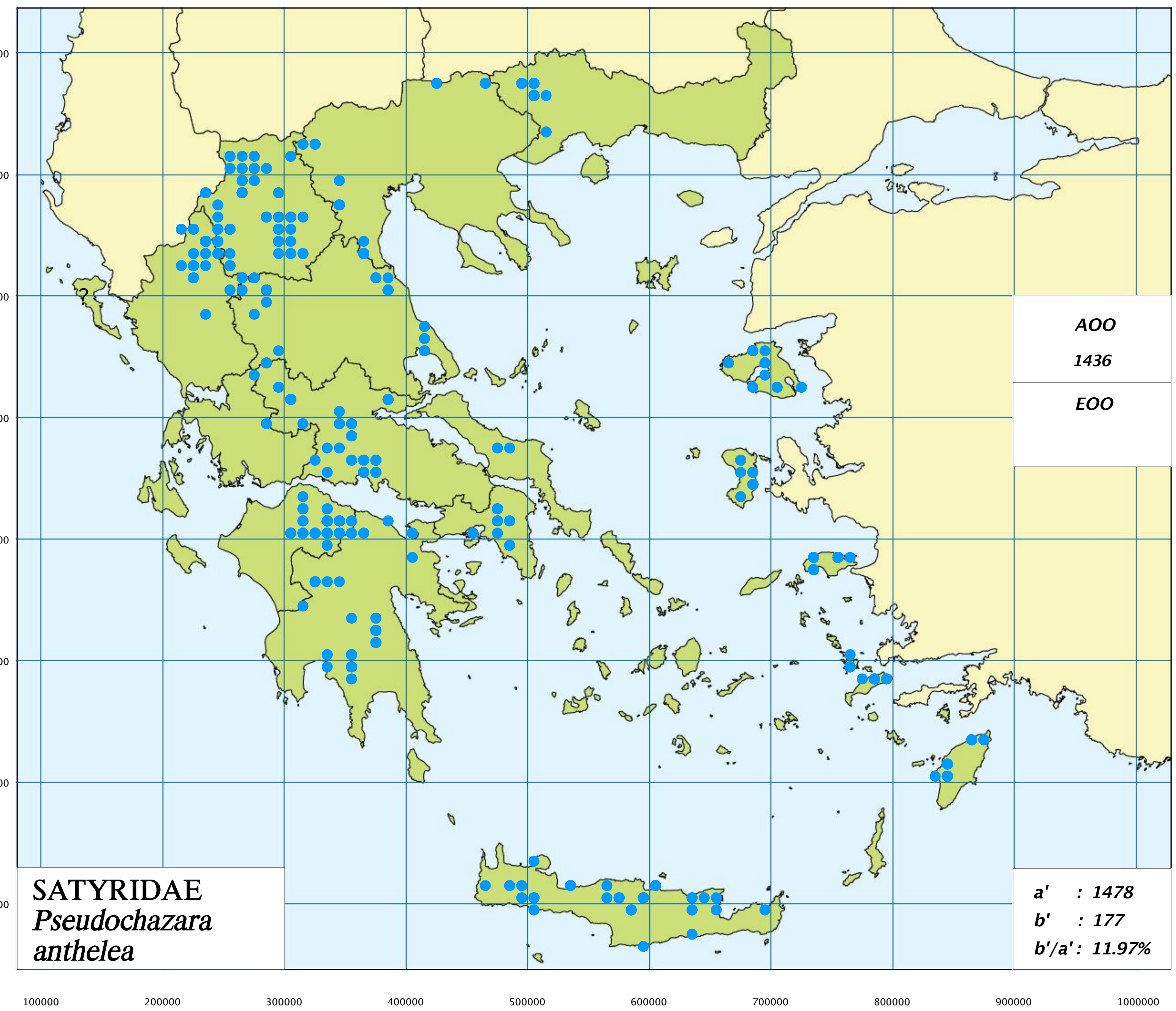
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
176
EOO
SATYRIDAE
Pseudochazara tisiphone
a' : 1478
b' : 21
b'/a' : 1.420%

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
128
EOO
a' : 1478
b' : 14
b'/a' : 0.947%
SATYRIDAE
Pseudochazara orestes

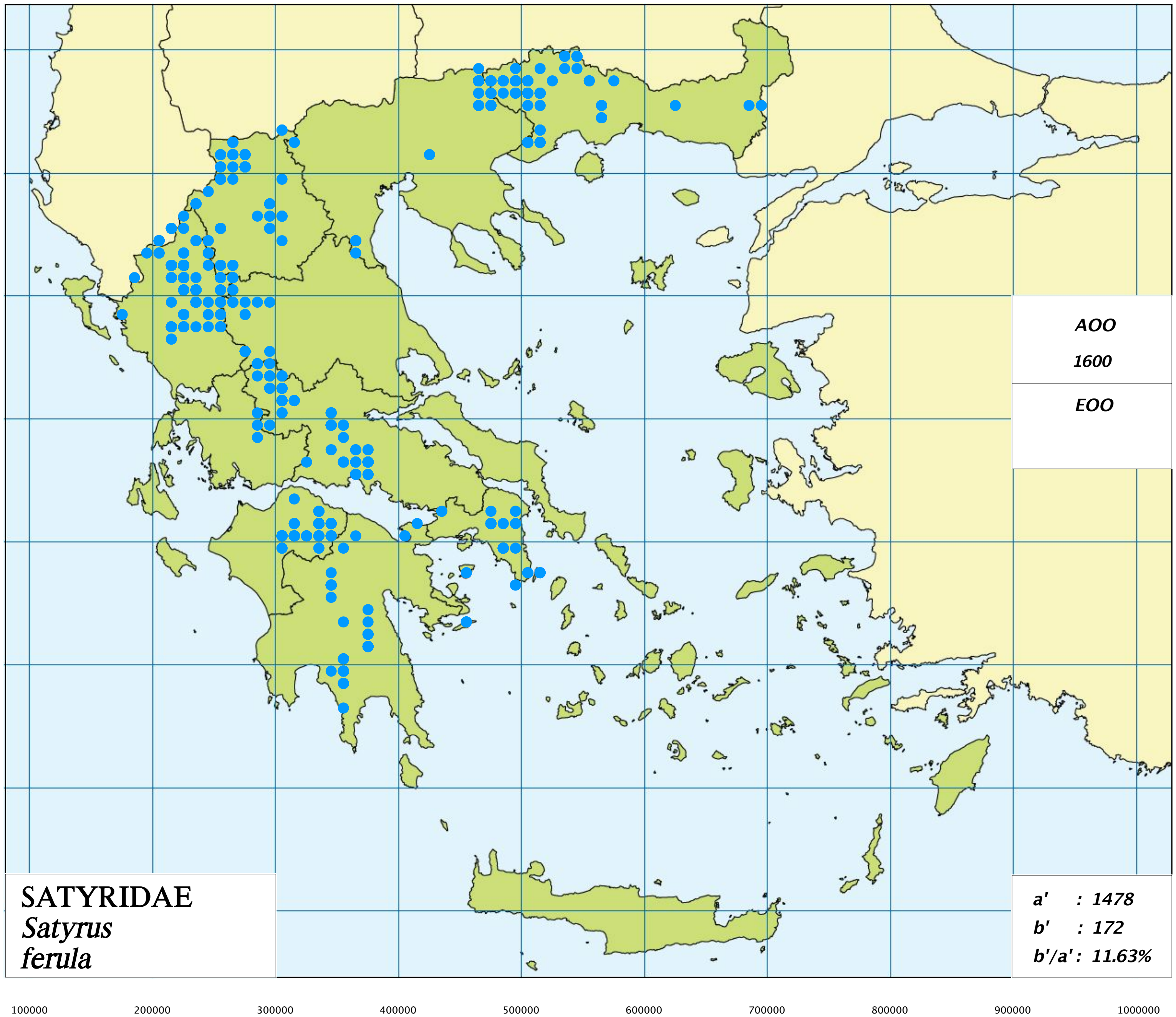
Pseudochazara amymone found in Albania in many localities
Το είδος *Pseudochazara amymone* βρέθηκε σε πολλές τοποθεσίες στην Αλβανία


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
564
EOO
SATYRIDAE
Pseudochazara graeca
a' : 1478
b' : 70
b'/a' : 4.736%

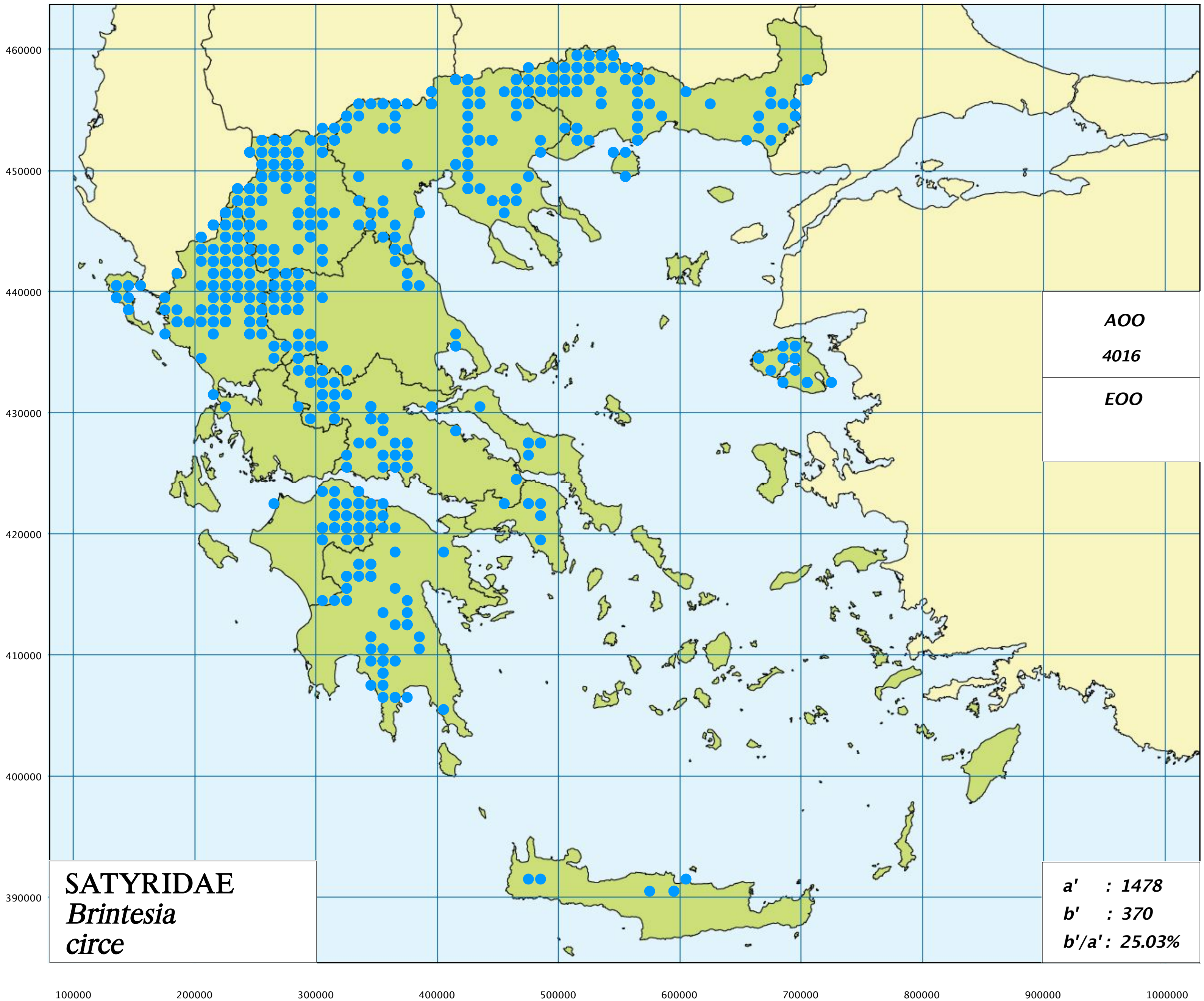

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
?
AOO
56
EOO
SATYRIDAE
Pseudochazara geyeri
a' : 1478
b' : 4
b'/a' : 0.270%

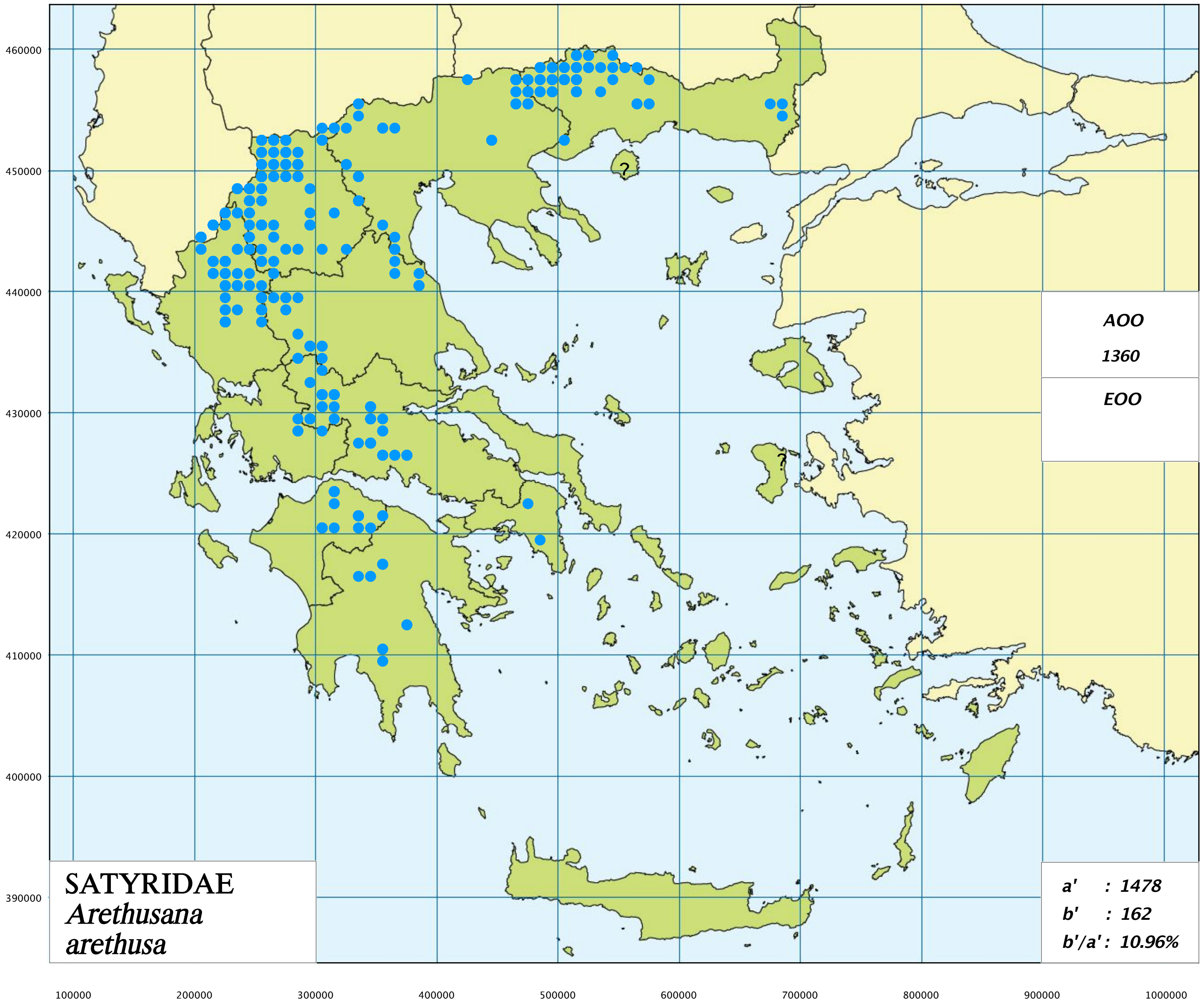


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1436
EOO
SATYRIDAE
Pseudochazara anthelea
a' : 1478
b' : 177
b'/a' : 11.97%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1600
EOO
SATYRIDAE
Satyrus
ferula
a' : 1478
b' : 172
b'/a' : 11.63%

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
164
EOO
SATYRIDAE
Minois
dryas
a' : 1478
b' : 21
b'/a' : 1.420%

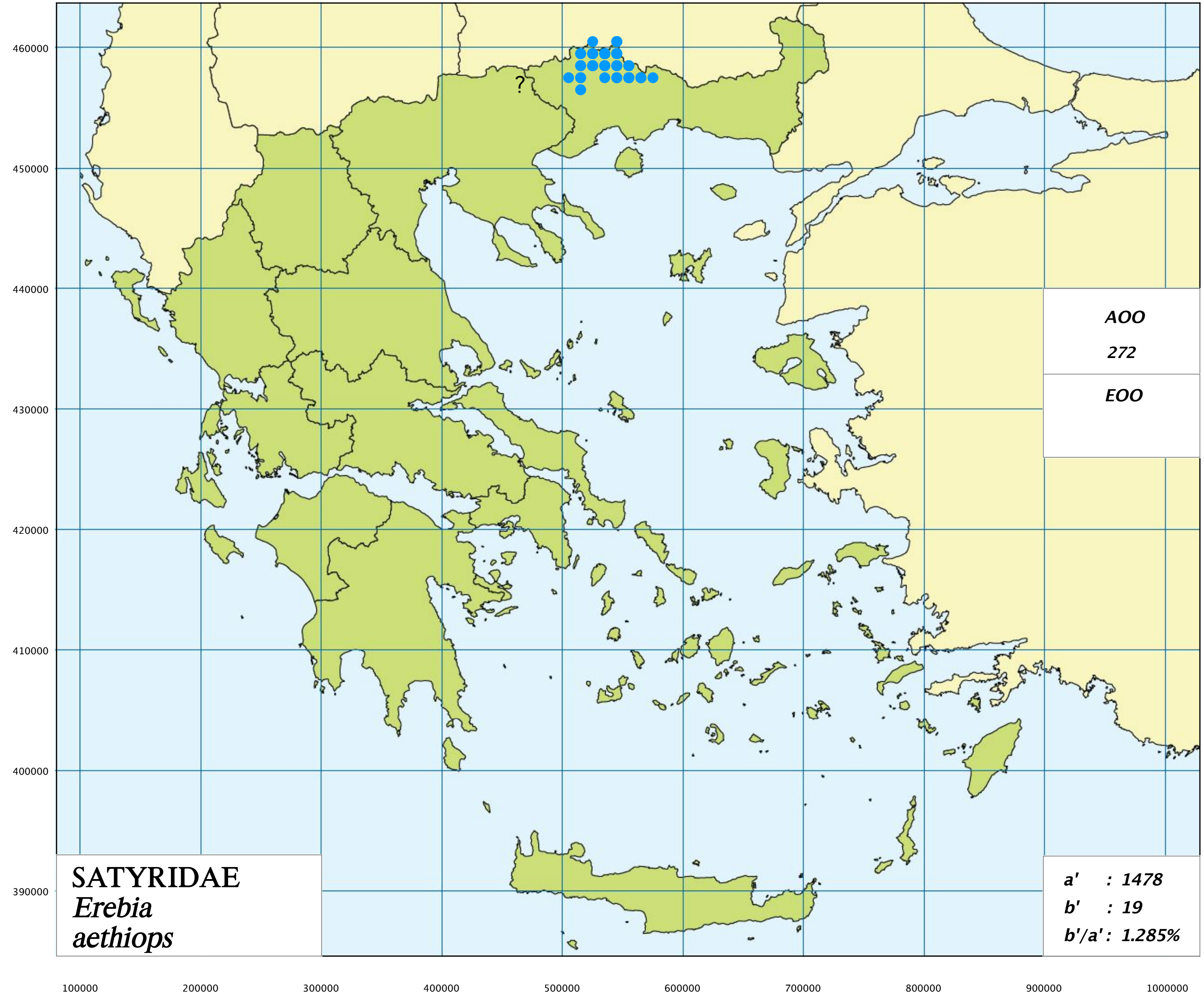

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4016
EOO
SATYRIDAE
Brintesia
circe
a' : 1478
b' : 370
b'/a' : 25.03%



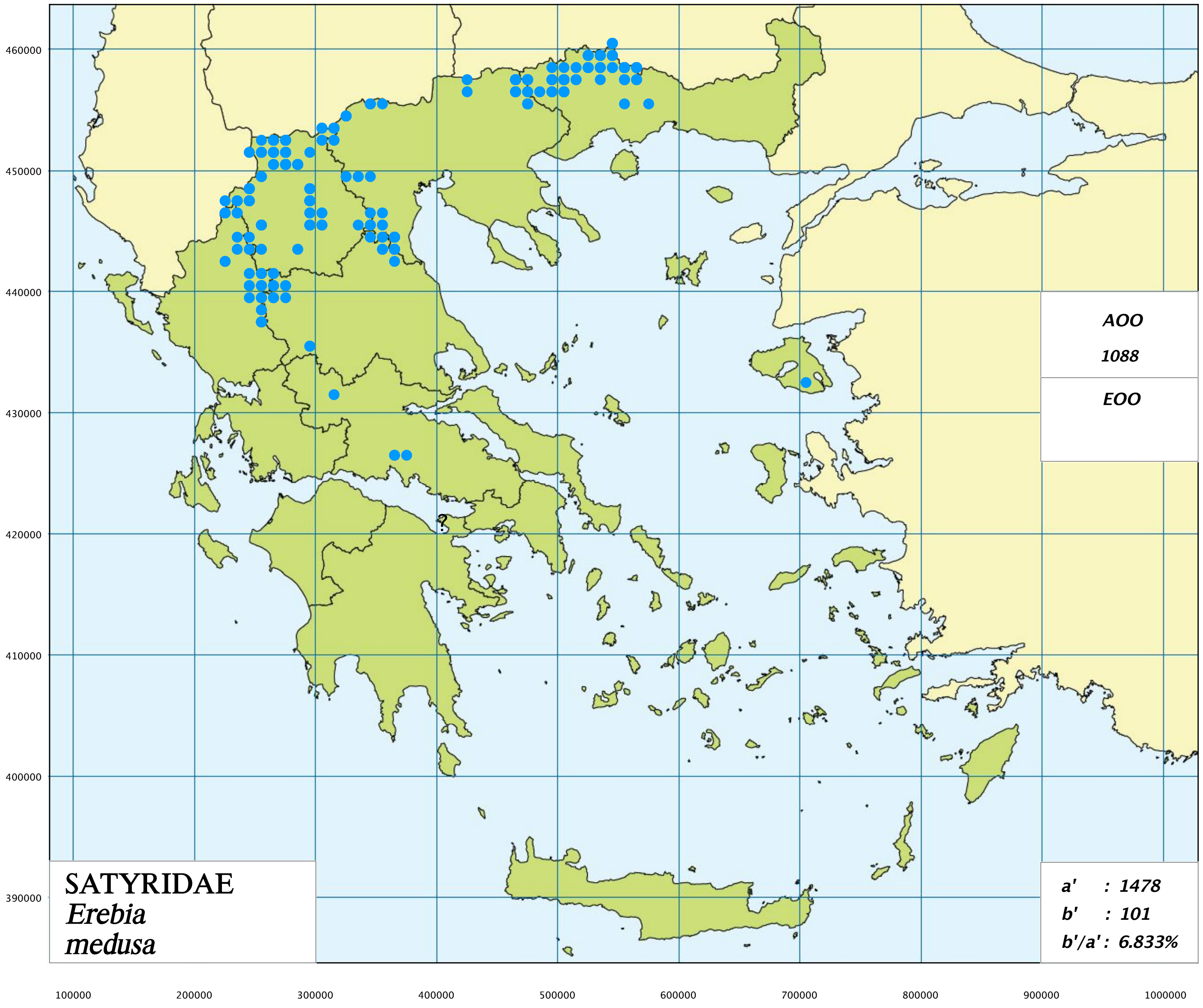
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
1360
EOO
SATYRIDAE
Arethusana arethusa
a' : 1478
b' : 162
b'/a' : 10.96%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
488
EOO
SATYRIDAE
Erebia
ligea
a' : 1478
b' : 34
b'/a' : 2.300%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
400
EOO
SATYRIDAE
Erebia
euryale
a' : 1478
b' : 35
b'/a' : 2.368%

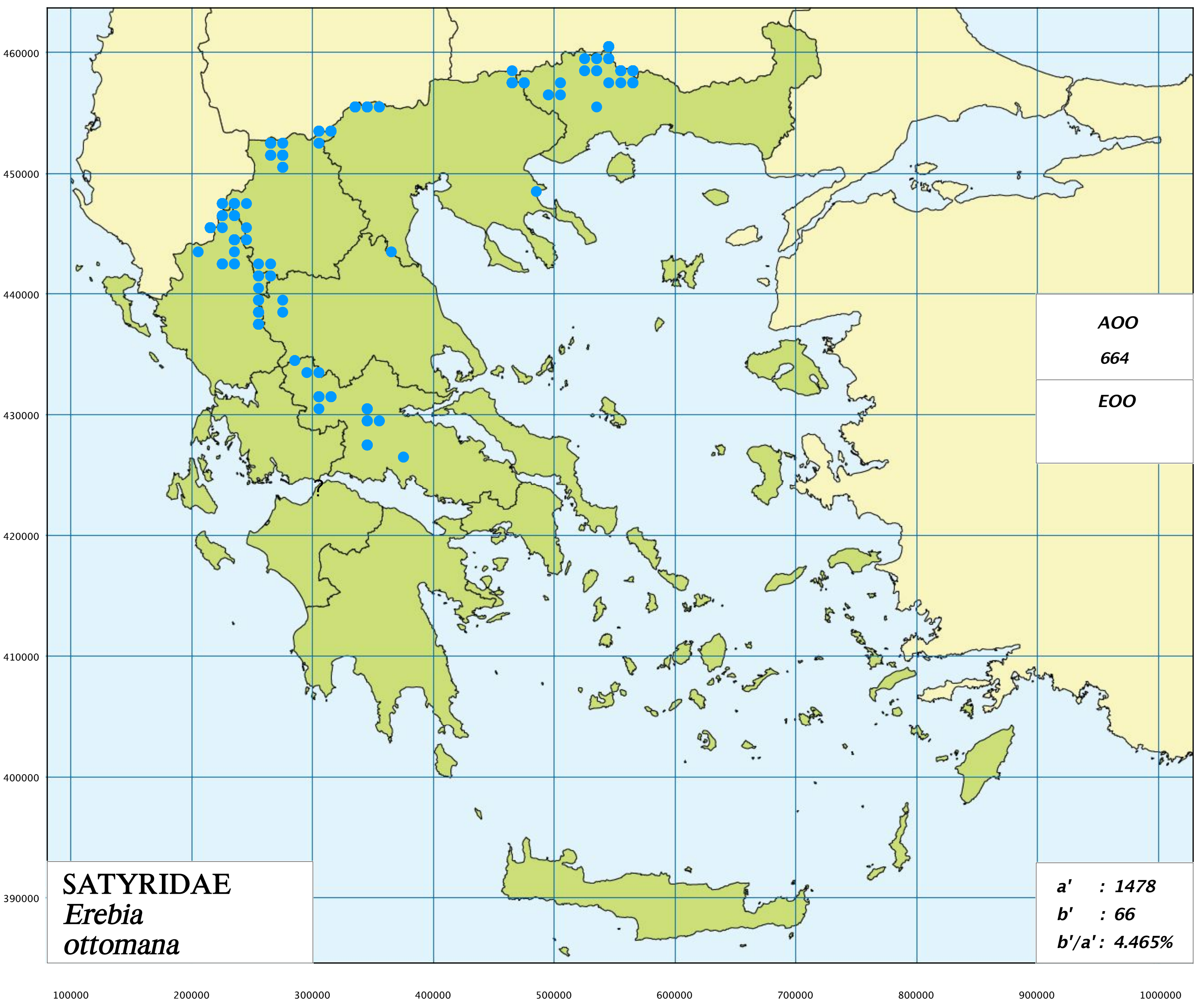


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
272
EOO
SATYRIDAE
Erebia
aethiops
a' : 1478
b' : 19
b'/a' : 1.285%



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1088
EOO
SATYRIDAE
Erebia
medusa
a' : 1478
b' : 101
b'/a' : 6.833%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
48
EOO
SATYRIDAE
Erebia epiphron
a' : 1478
b' : 4
b'/a' : 0.270%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
664
EOO
SATYRIDAE
Erebia
ottomana
a' : 1478
b' : 66
b'/a' : 4.465%

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
40
EOO
SATYRIDAE
Erebia cassioides
a' : 1478
b' : 5
b'/a' : 0.338%

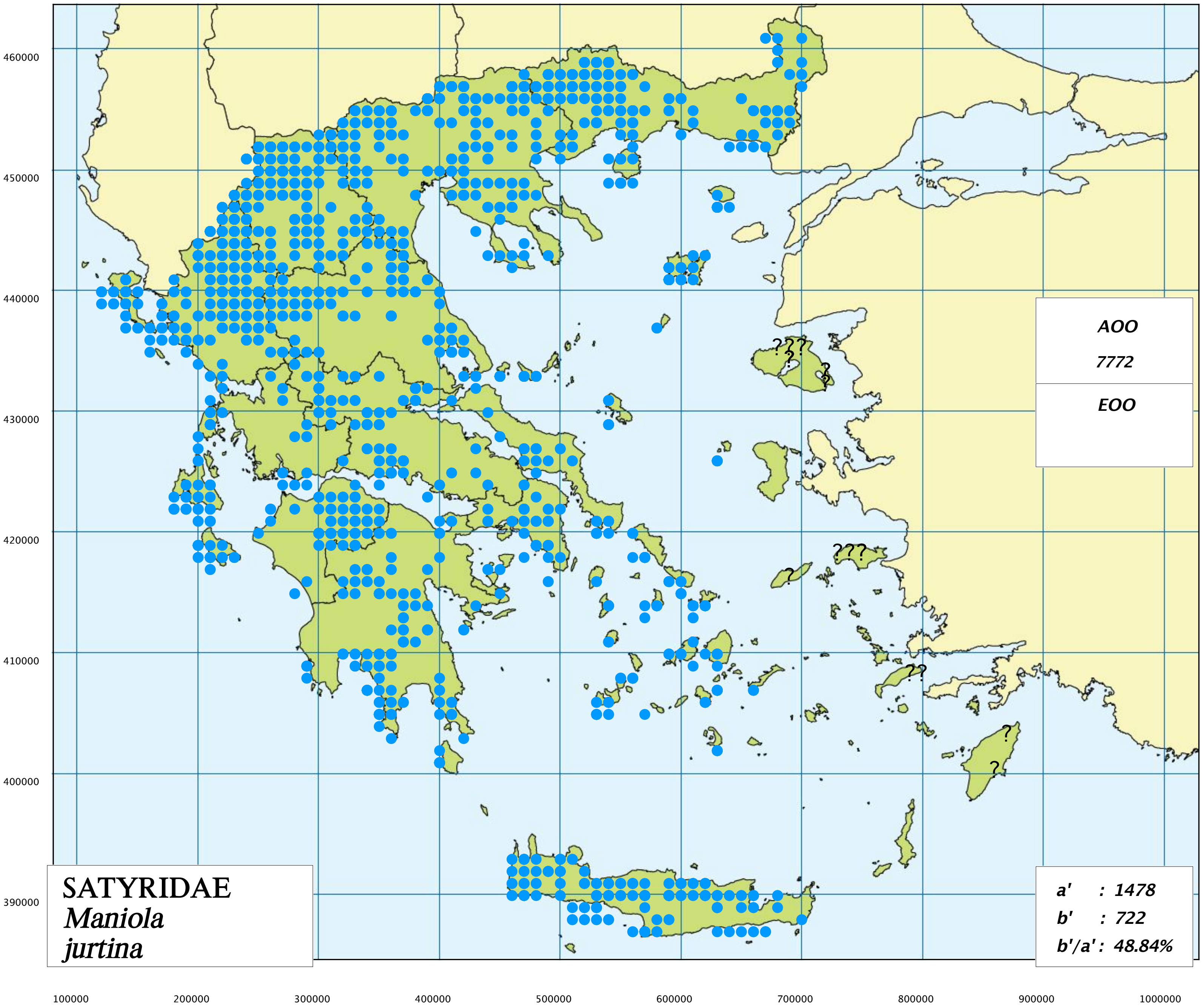

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
144
EOO
SATYRIDAE
Erebia
oeme
a' : 1478
b' : 19
b'/a' : 1.285%


SATYRIDAE
Erebia rhodopensis
AOO
40
EOO
a' : 1478
b' : 5
b'/a' : 0.338%
?
?
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
604
EOO
SATYRIDAE
Erebia
melas
a' : 1478
b' : 59
b'/a' : 3.991%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
268
EOO
SATYRIDAE
Proterebia
afra
a' : 1478
b' : 18
b'/a' : 1.217%

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
76
EOO
?
SATYRIDAE
Ypthima
asterope
a' : 1478
b' : 13
b'/a' : 0.879%



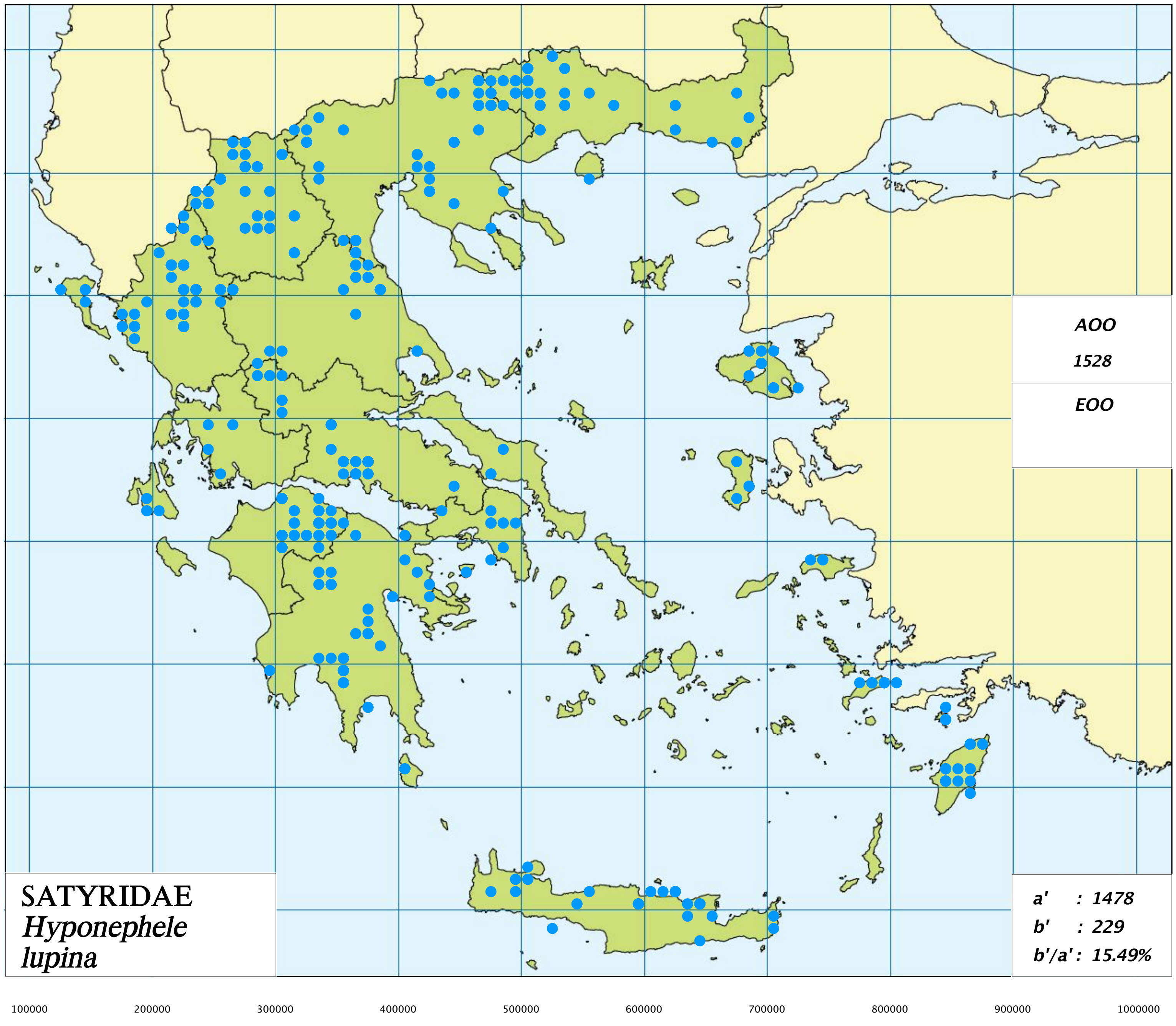
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
7772
EOO
a' : 1478
b' : 722
b'/a' : 48.84%
SATYRIDAE
Maniola jurtina

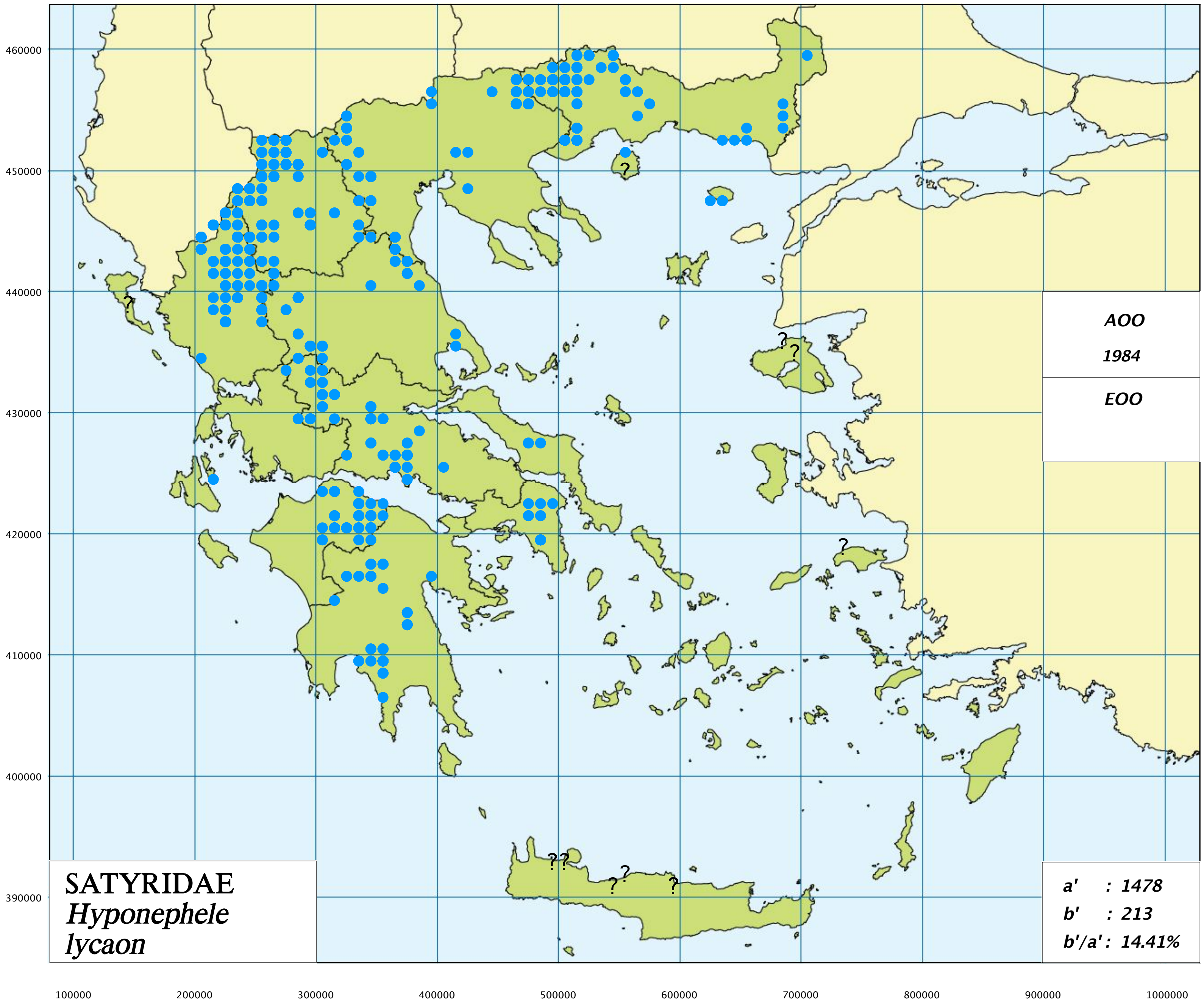

SATYRIDAE
Maniola halicarnassus
AOO
32
EOO
a' : 1478
b' : 3
b'/a' : 0.202%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

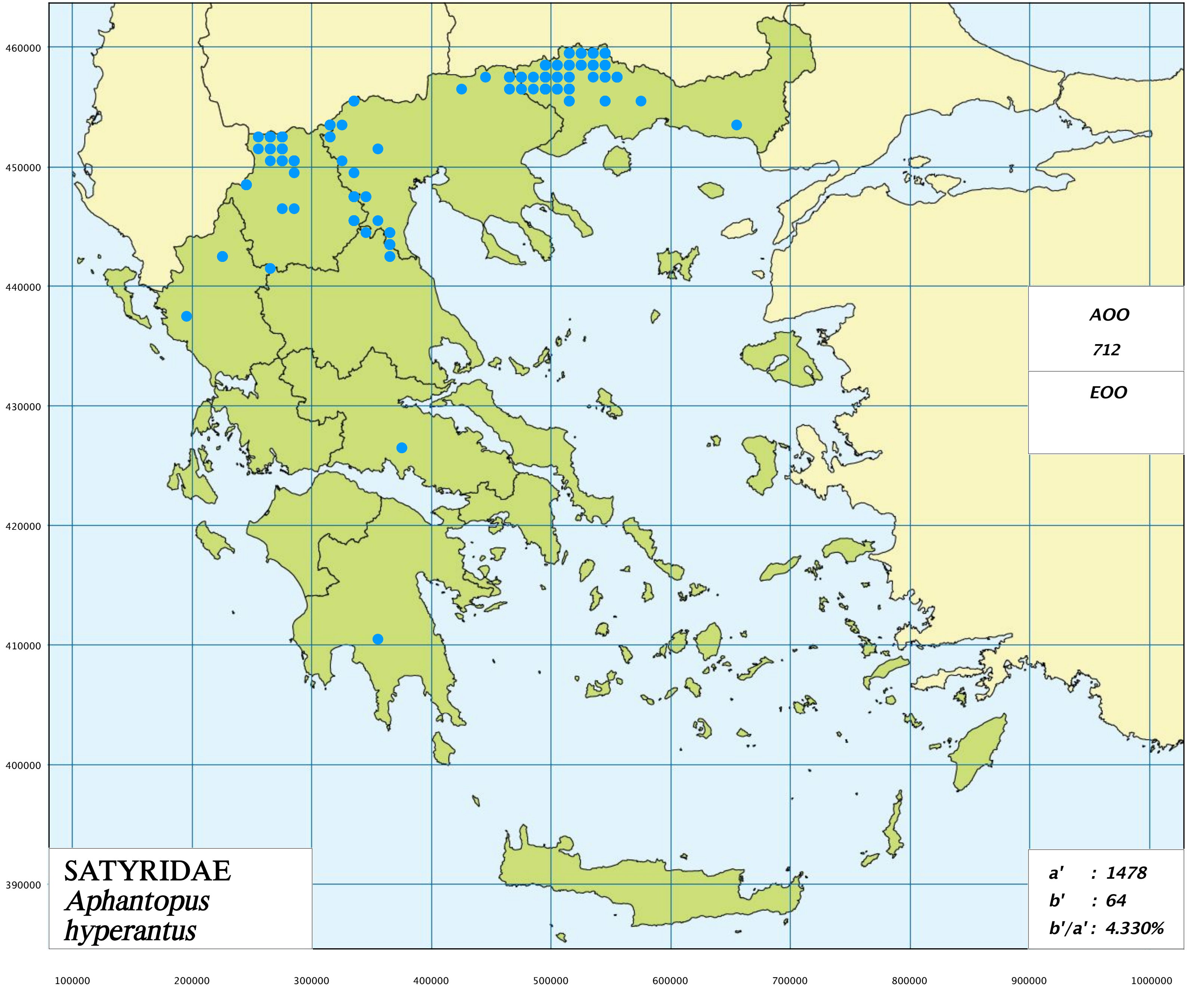
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1464
EOO
SATYRIDAE
Maniola
telmessia
a' : 1478
b' : 90
b'/a' : 6.089%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
224
EOO
SATYRIDAE
Maniola
chia
a' : 1478
b' : 13
b'/a' : 0.879%

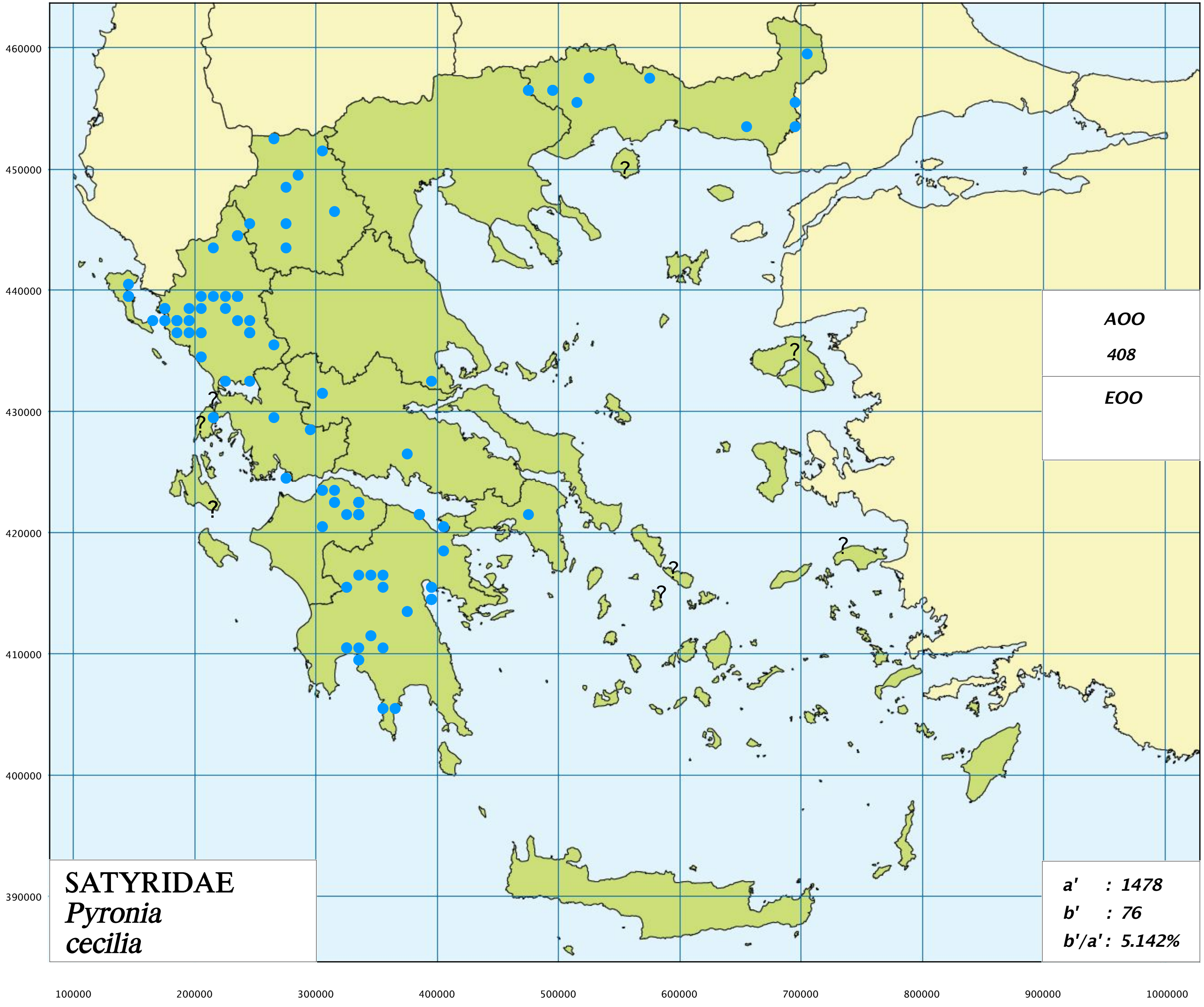

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
132
EOO
SATYRIDAE
Maniola
megala
a' : 1478
b' : 12
b'/a' : 0.811%


SATYRIDAE
Hyponephele lupina
AOO
1528
EOO
a' : 1478
b' : 229
b'/a' : 15.49%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

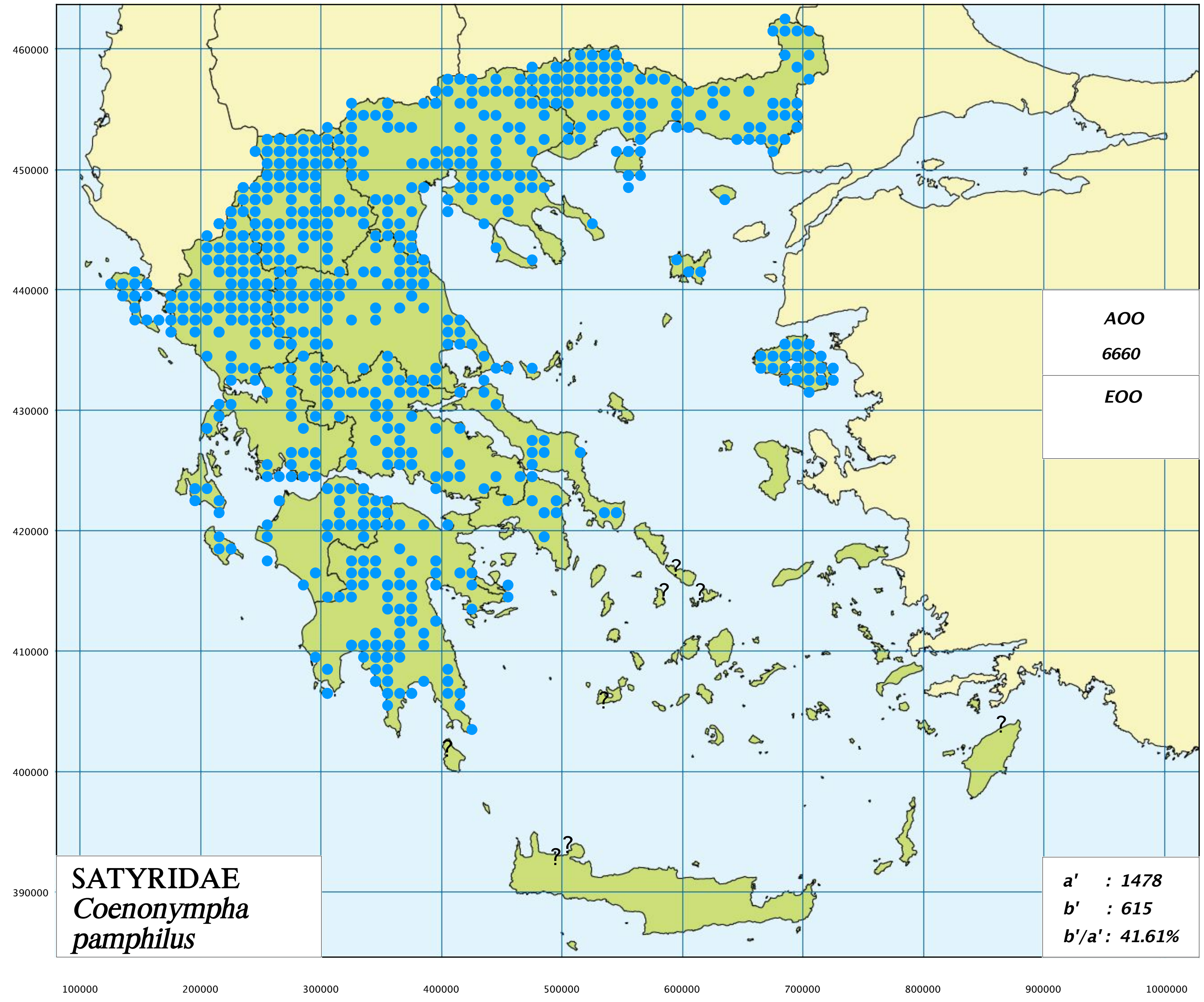

AOO
1984
EOO
SATYRIDAE
Hyponephele lycaon
a' : 1478
b' : 213
b'/a' : 14.41%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

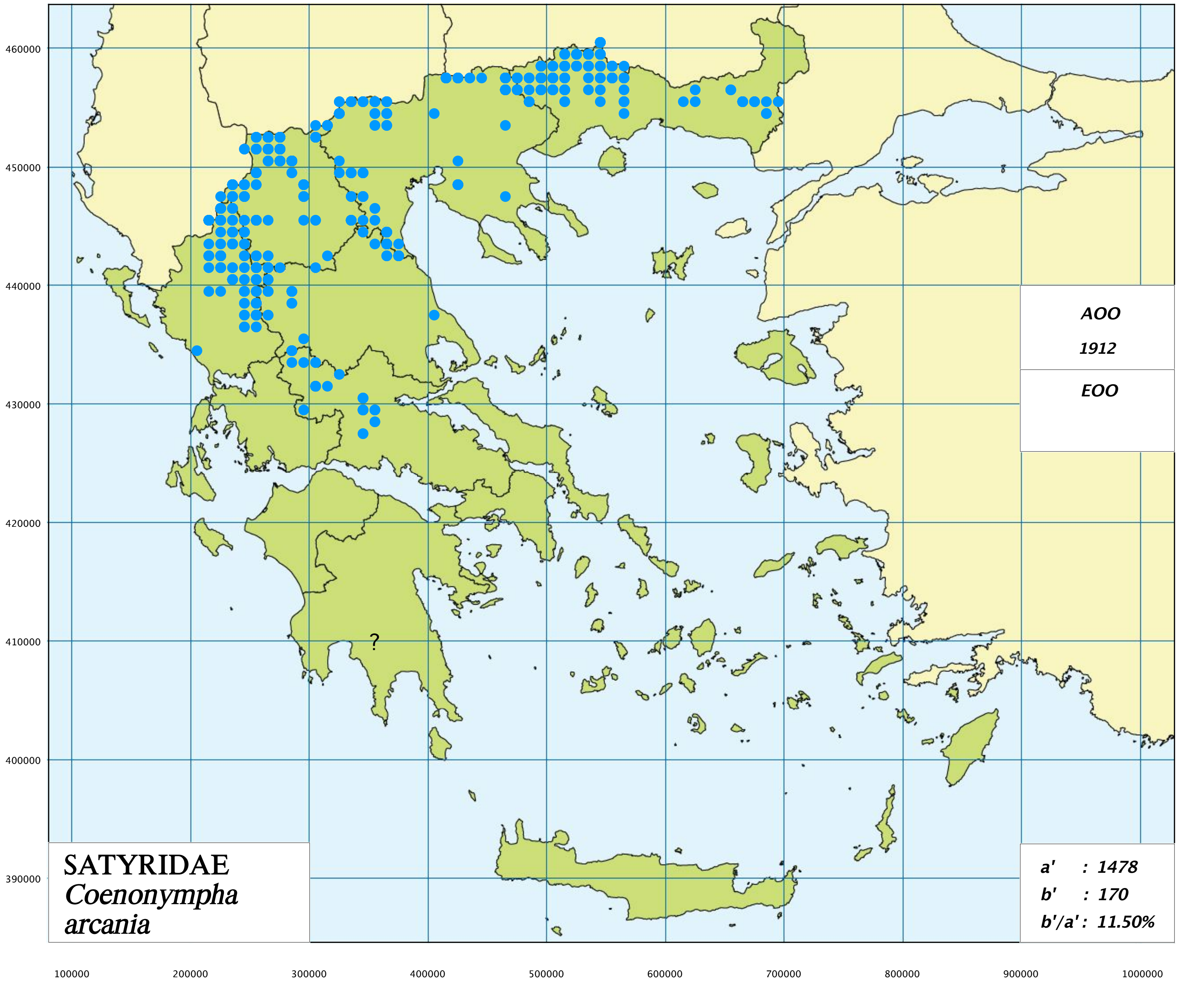

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
712
EOO
a' : 1478
b' : 64
b'/a' : 4.330%
SATYRIDAE
Aphantopus
hyperantus

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1308
EOO
?
?
SATYRIDAE
Pyronia
tithonus
a' : 1478
b' : 169
b'/a' : 11.43%

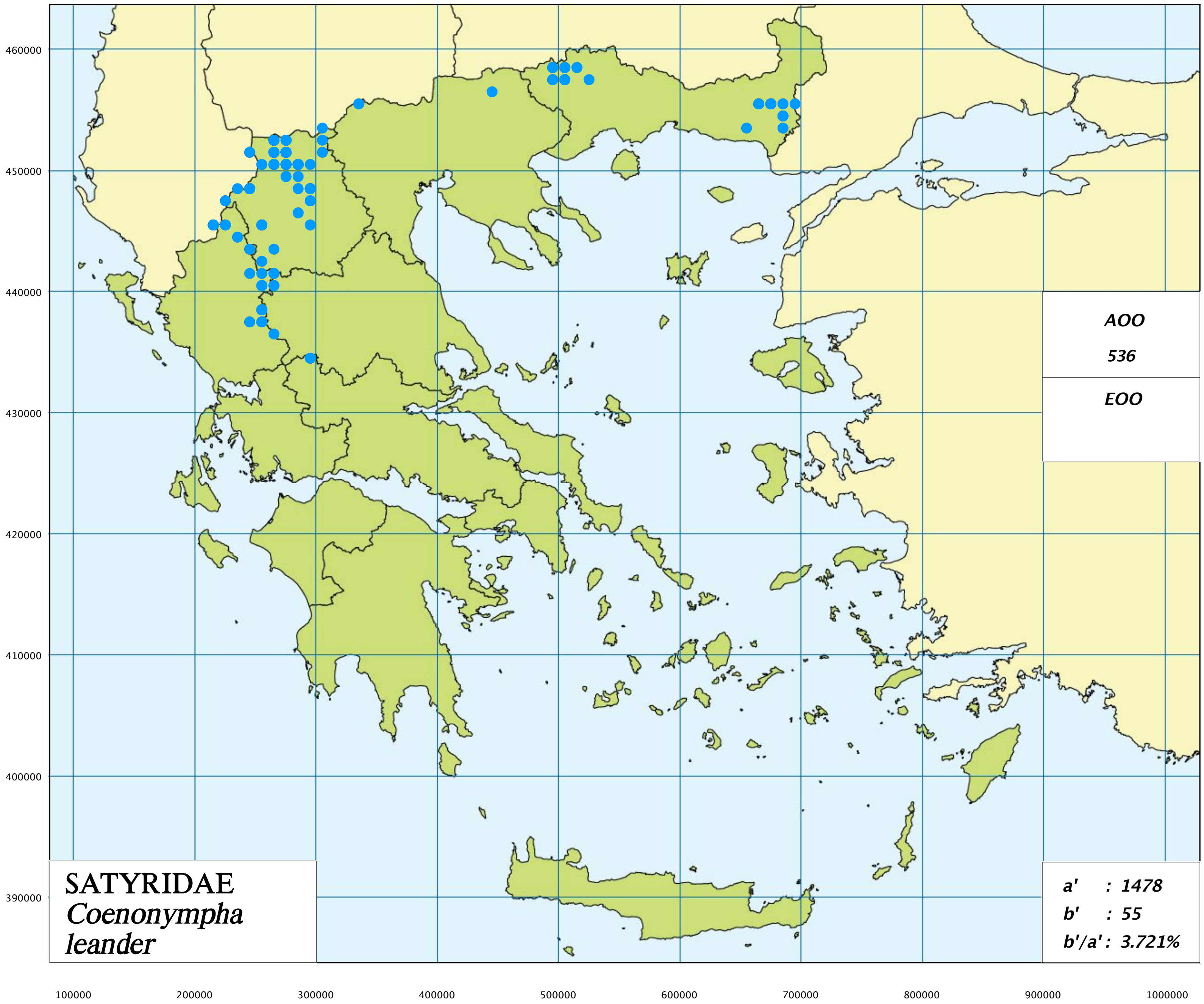

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
408
EOO
a' : 1478
b' : 76
b'/a' : 5.142%
SATYRIDAE
Pyronia
cecilia

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
632
EOO
SATYRIDAE
Coenonympha thyrsis
a' : 1478
b' : 74
b'/a' : 5.006%

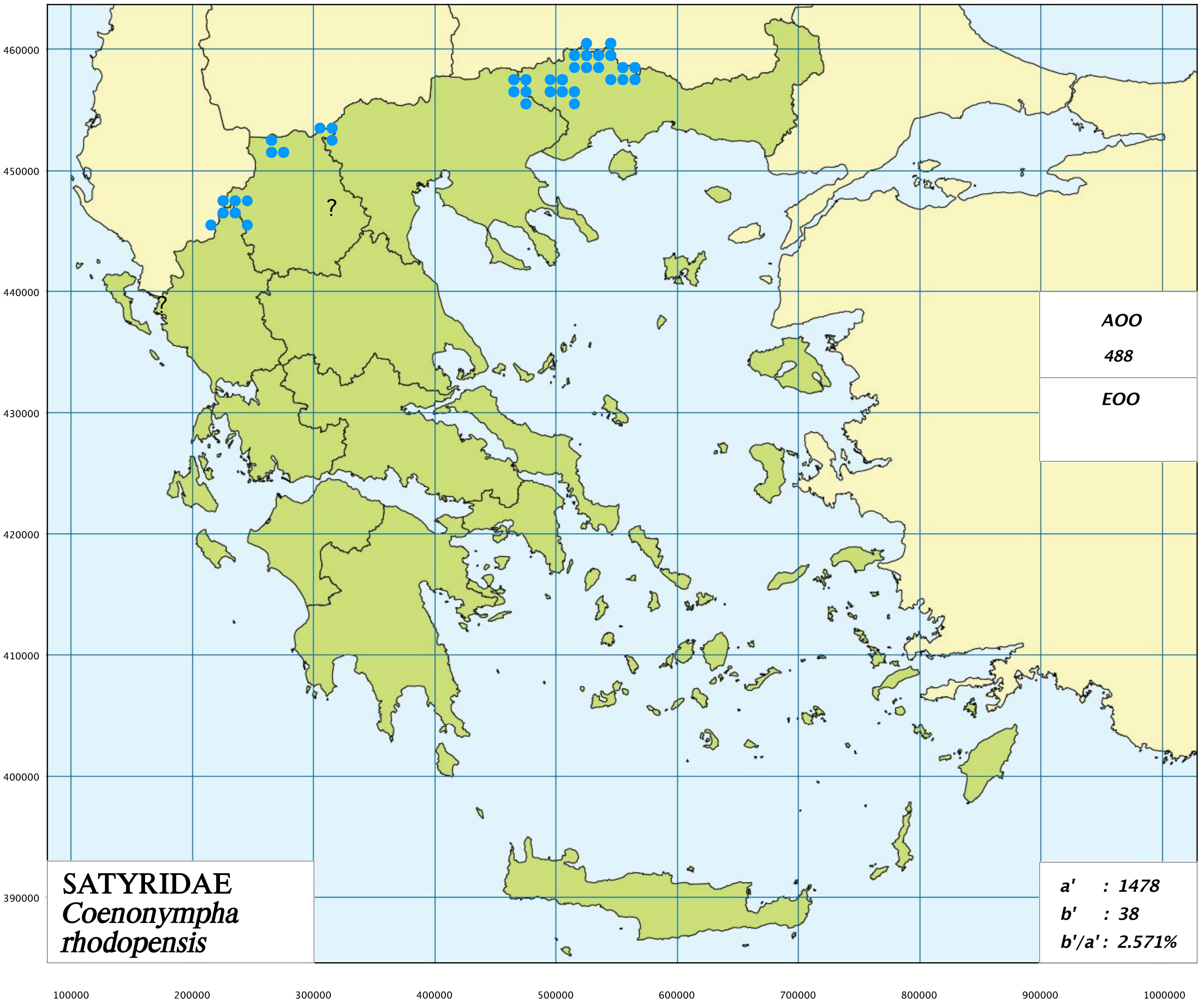

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
6660
EOO
SATYRIDAE
Coenonympha pamphilus
a' : 1478
b' : 615
b'/a' : 41.61%



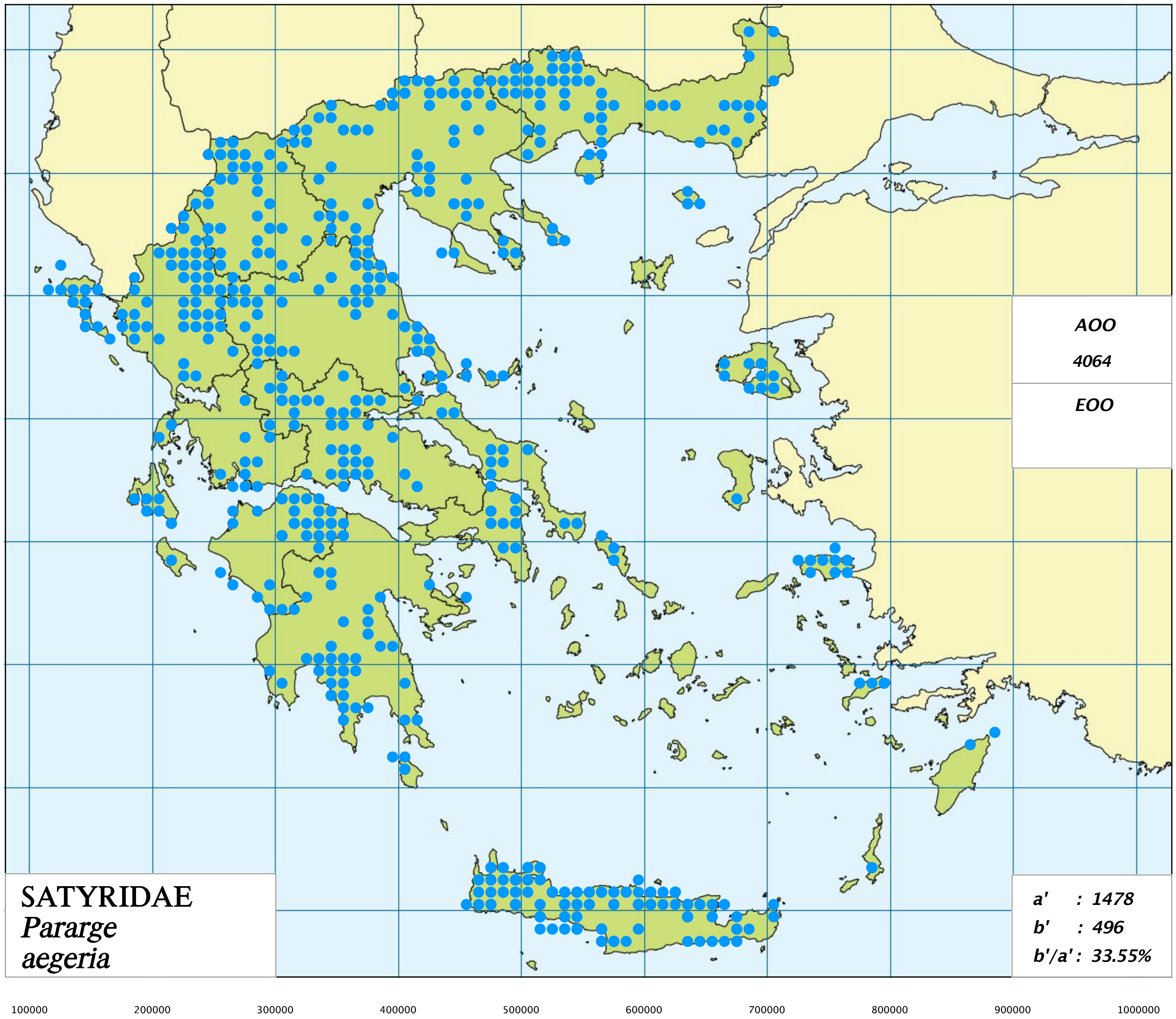
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1912
EOO
SATYRIDAE
Coenonympha arcania
a' : 1478
b' : 170
b'/a' : 11.50%

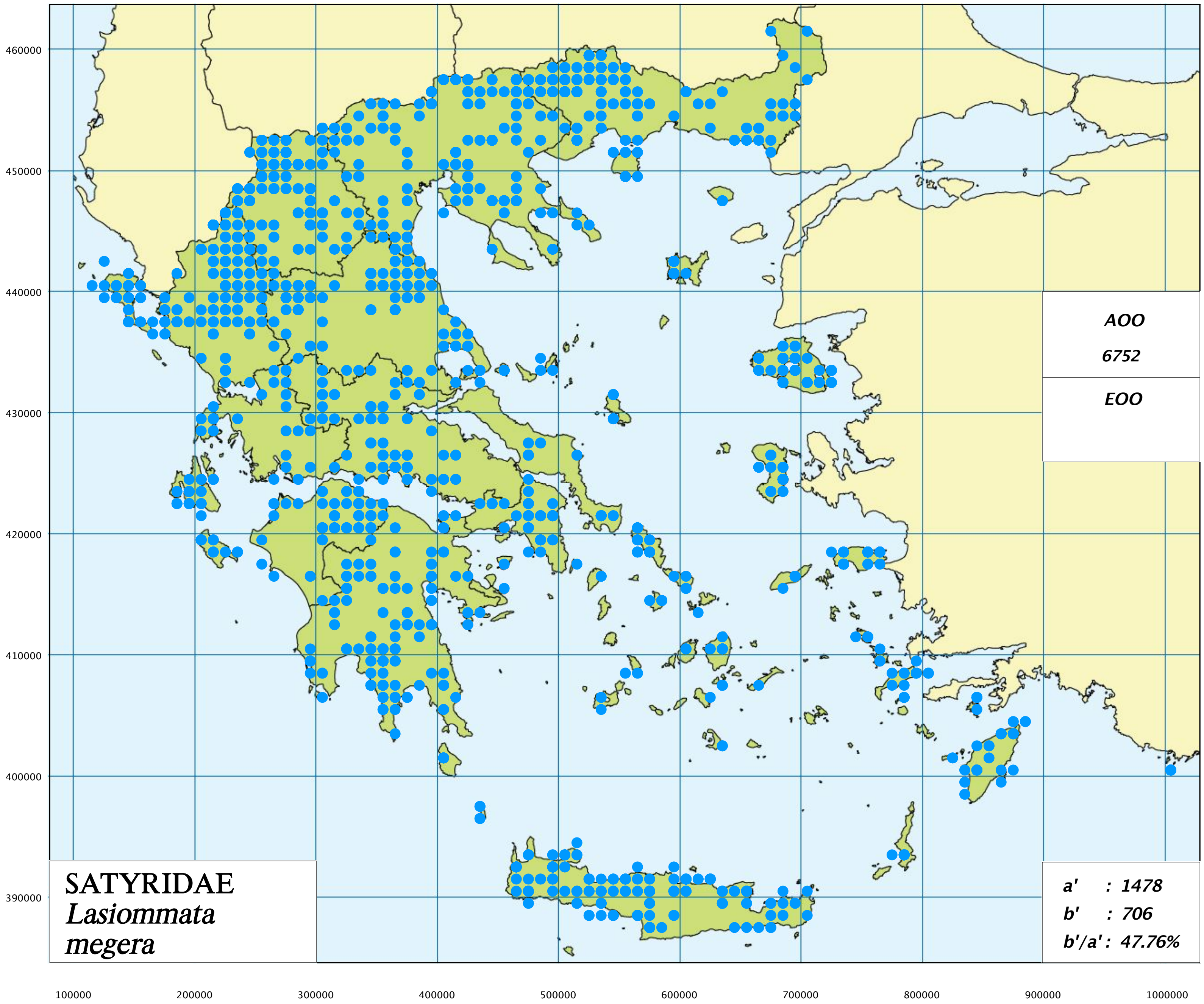

SATYRIDAE
Coenonympha leander
AOO
536
EOO
a' : 1478
b' : 55
b'/a' : 3.721%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

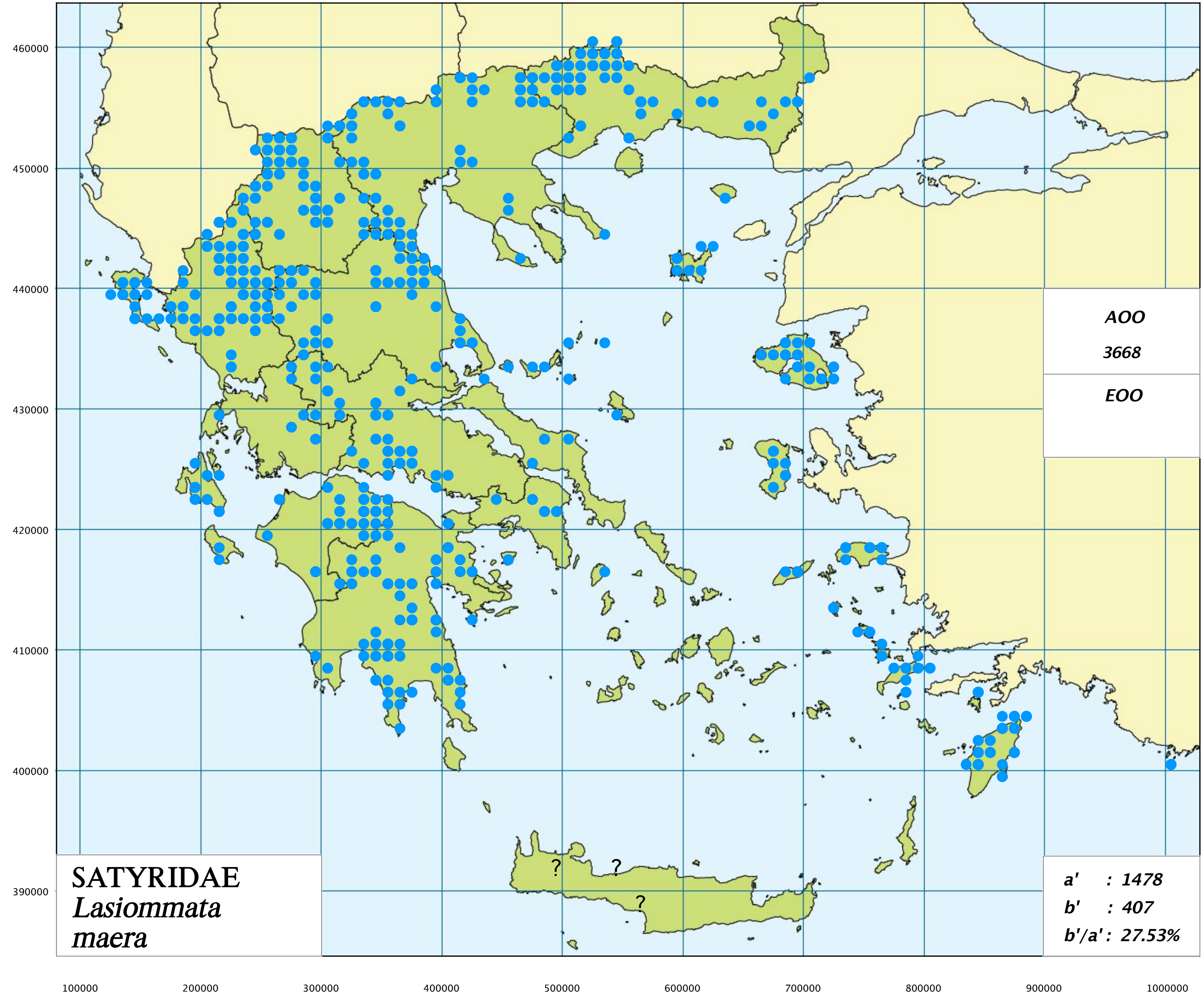
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
88
EOO
SATYRIDAE
Coenonympha
glycerion
a' : 1478
b' : 10
b'/a' : 0.676%

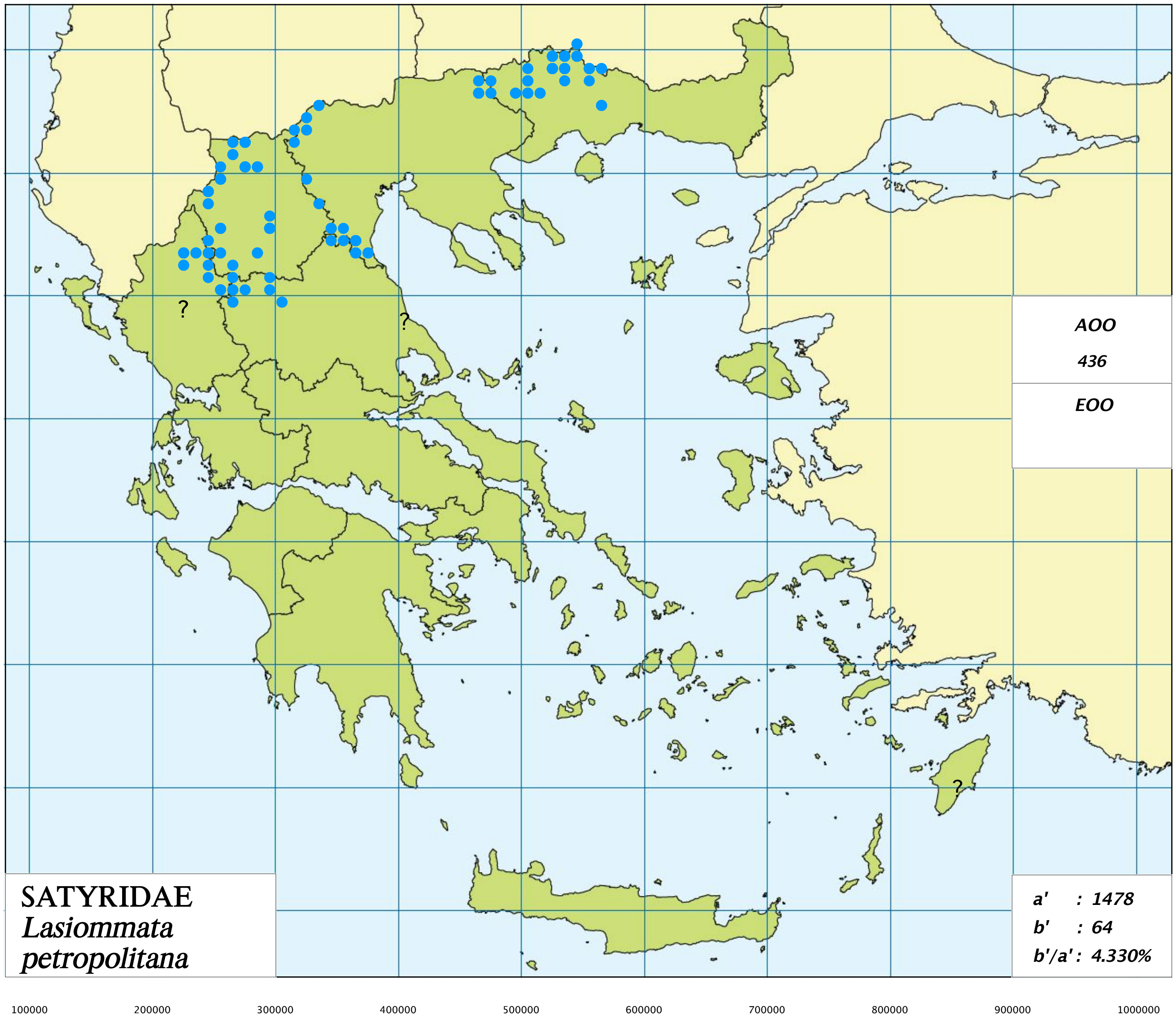


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
488
EOO
SATYRIDAE
Coenonympha rhodopensis
a' : 1478
b' : 38
b'/a' : 2.571%

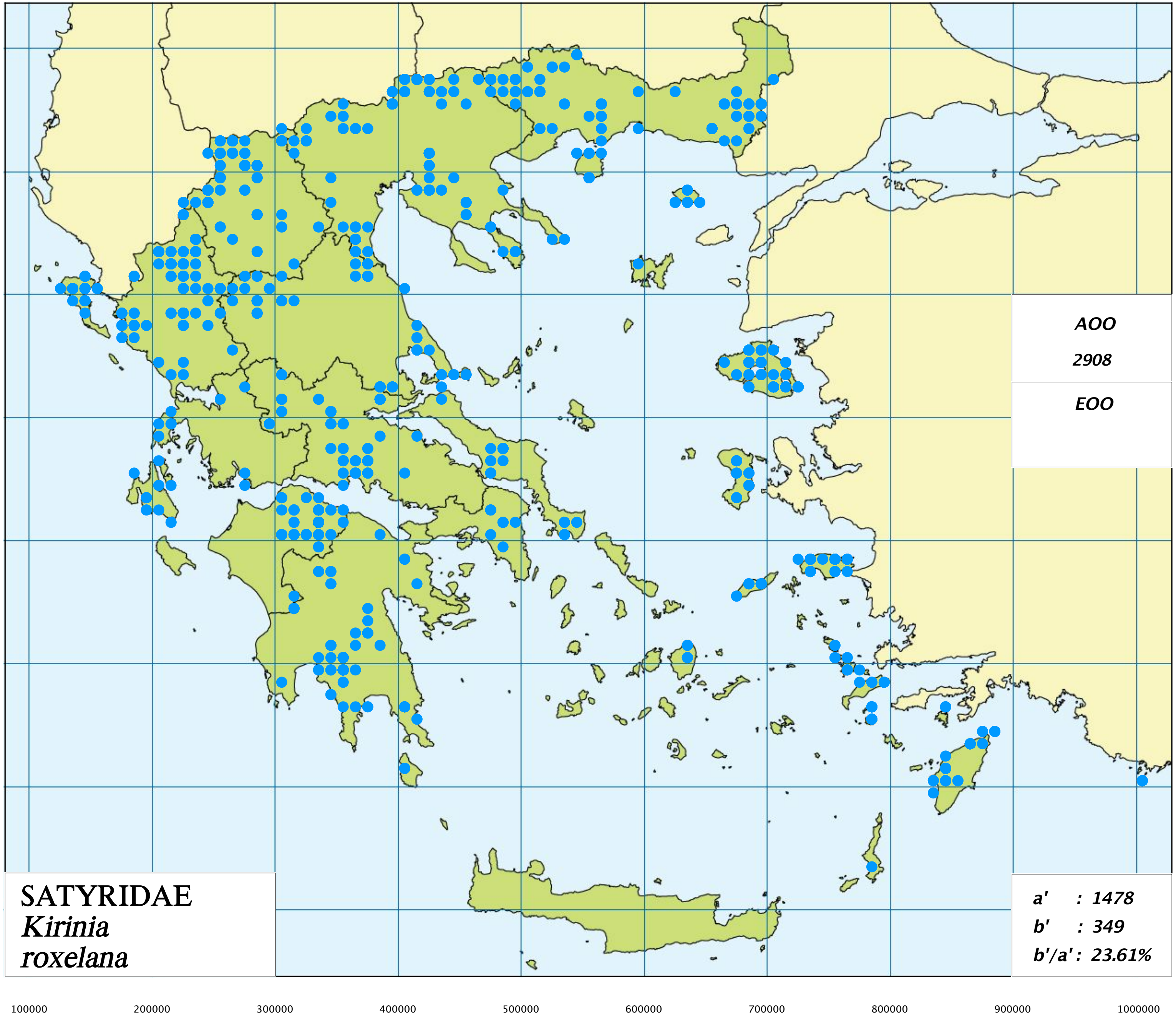

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4064
EOO
SATYRIDAE
Pararge aegeria
a' : 1478
b' : 496
b'/a' : 33.55%

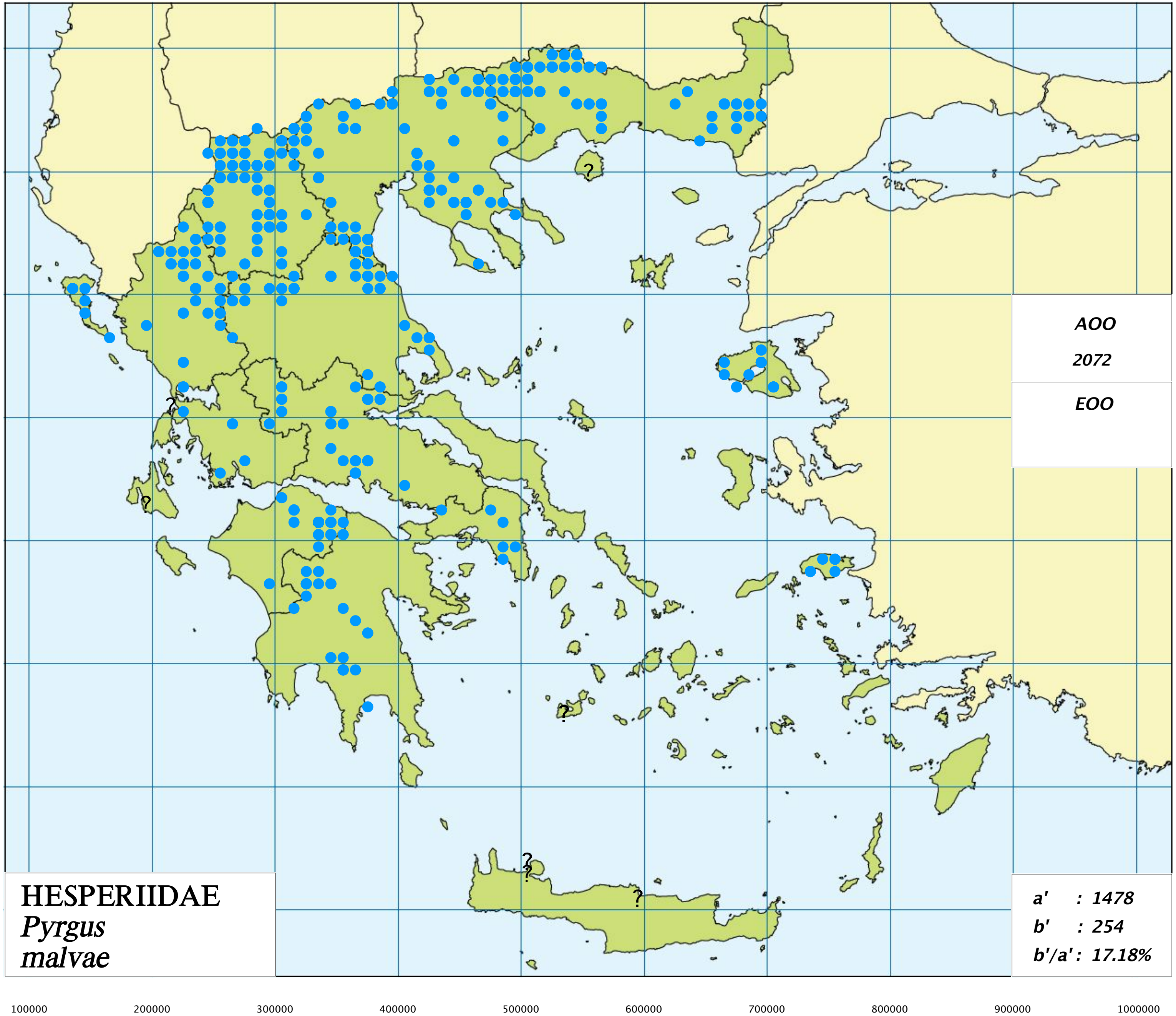

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
6752
EOO
SATYRIDAE
Lasiommata megera
a' : 1478
b' : 706
b'/a' : 47.76%


SATYRIDAE
Lasiommata
maera
AOO
3668
EOO
a' : 1478
b' : 407
b'/a' : 27.53%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?

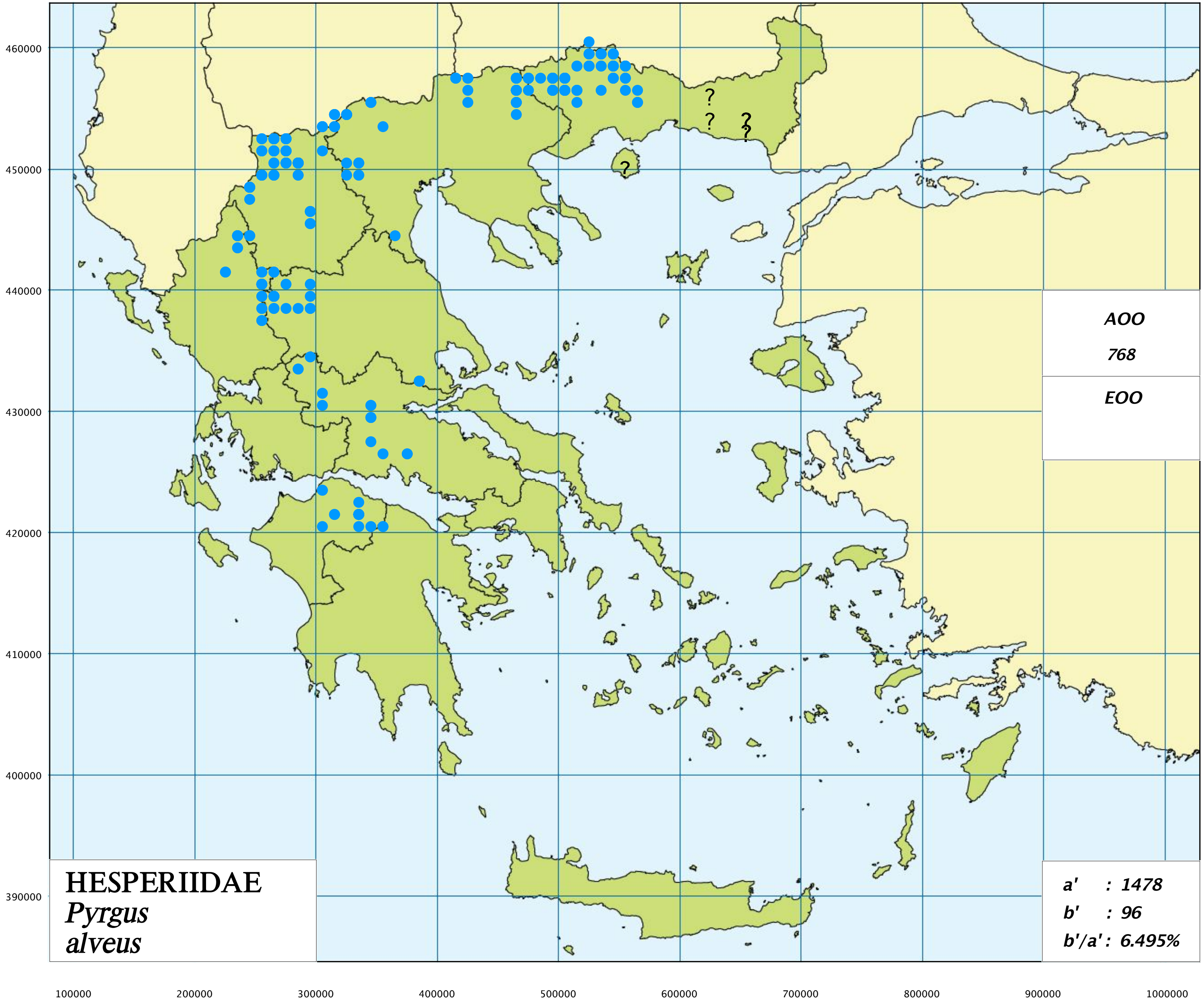

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
436
EOO
SATYRIDAE
Lasiommata
petropolitana
a' : 1478
b' : 64
b'/a' : 4.330%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
204
EOO
SATYRIDAE
Esperarge
climene
a' : 1478
b' : 26
b'/a' : 1.759%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2908
EOO
SATYRIDAE
Kirinia
roxelana
a' : 1478
b' : 349
b'/a' : 23.61%



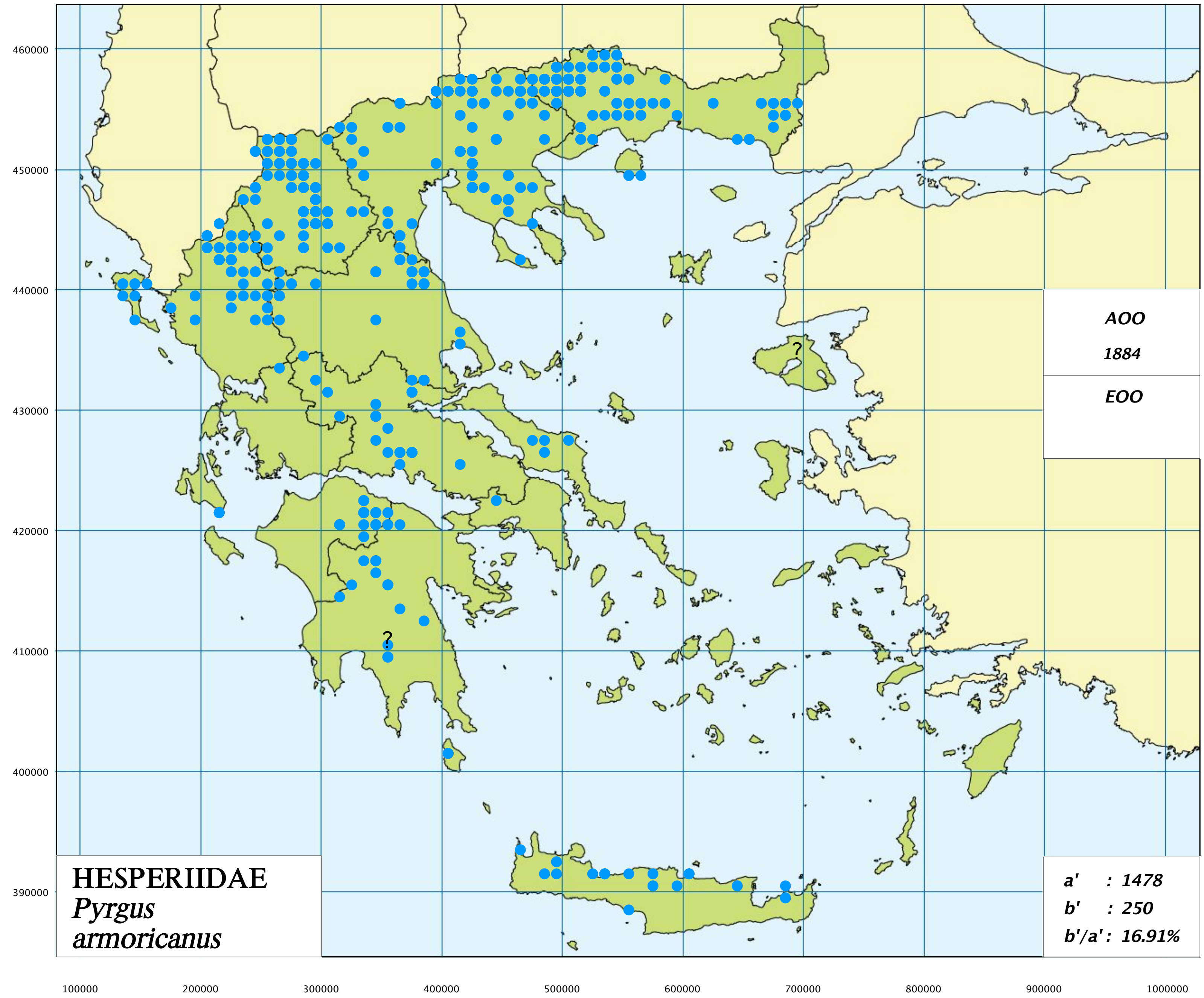
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2072
EOO
a' : 1478
b' : 254
b'/a' : 17.18%
HESPERIIDAE
Pyrgus
malvae



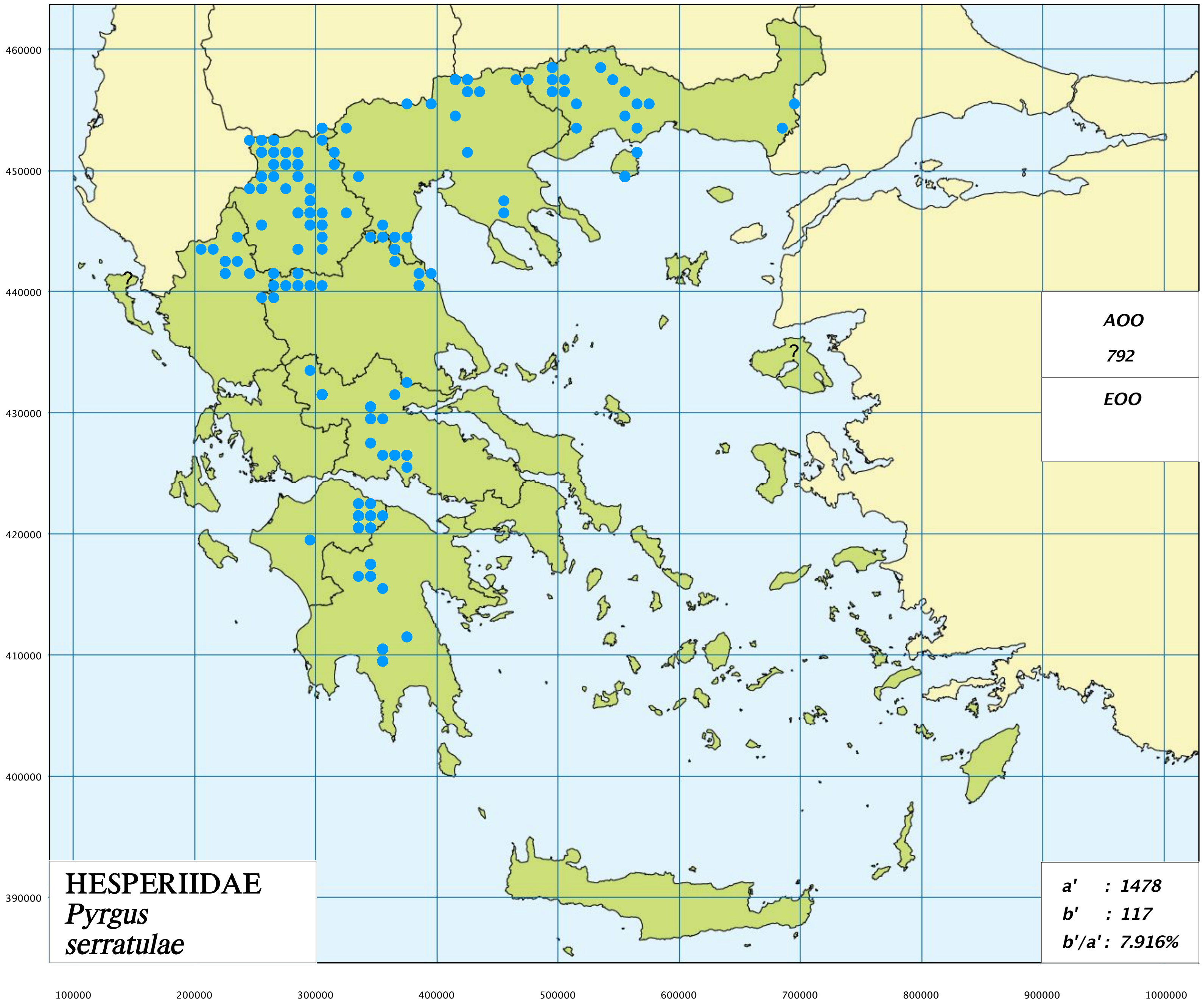
Two morphs of *Pyrgus alveus* occur in Greece (see in Coutsis J. G. & De Prins W.: The Pyrgus alveus -complex in Greece (Lepidoptera: Hesperiidae).Phegea 42(3): 50-54)

Δύο μορφές του *Pyrgus alveus* υπάρχουν στην Ελλάδα (δες στο Coutsis J. G. & De Prins W.: The Pyrgus alveus -complex in Greece (Lepidoptera: Hesperiidae).Phegea 42(3): 50-54)

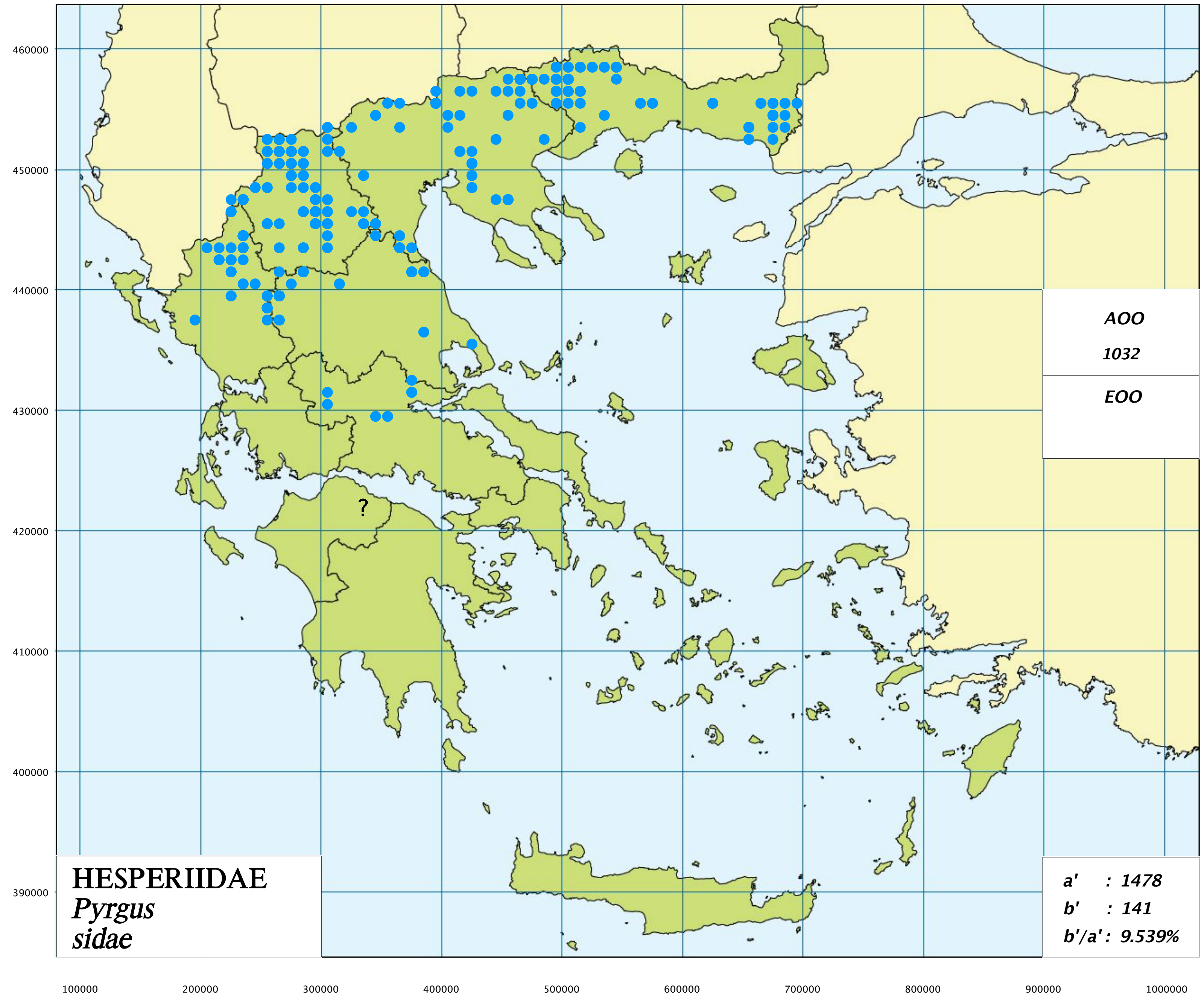
Αμφίβολη αναγνώριση / Identification uncertain



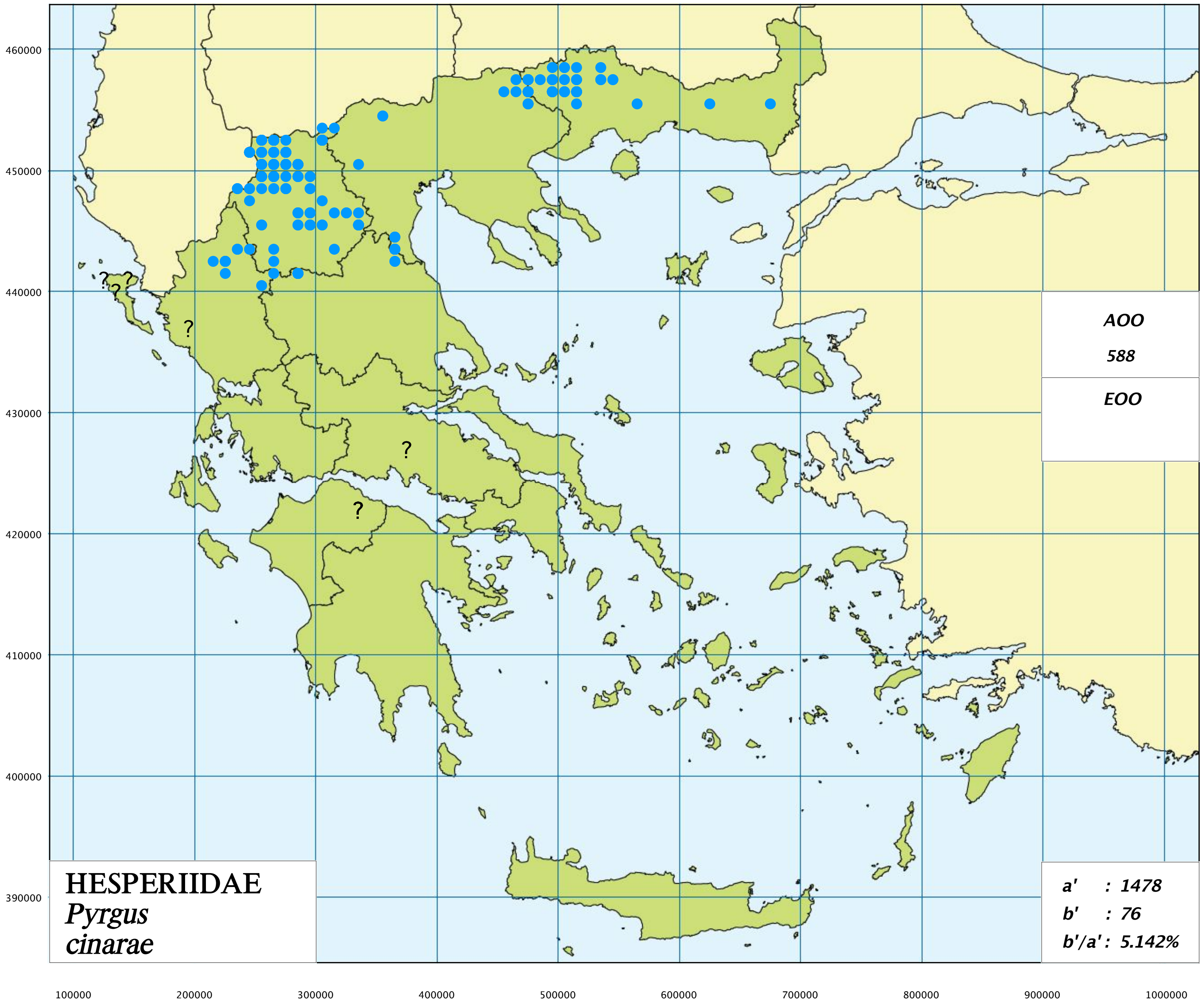
Αμφίβολη αναγνώριση / Identification uncertain

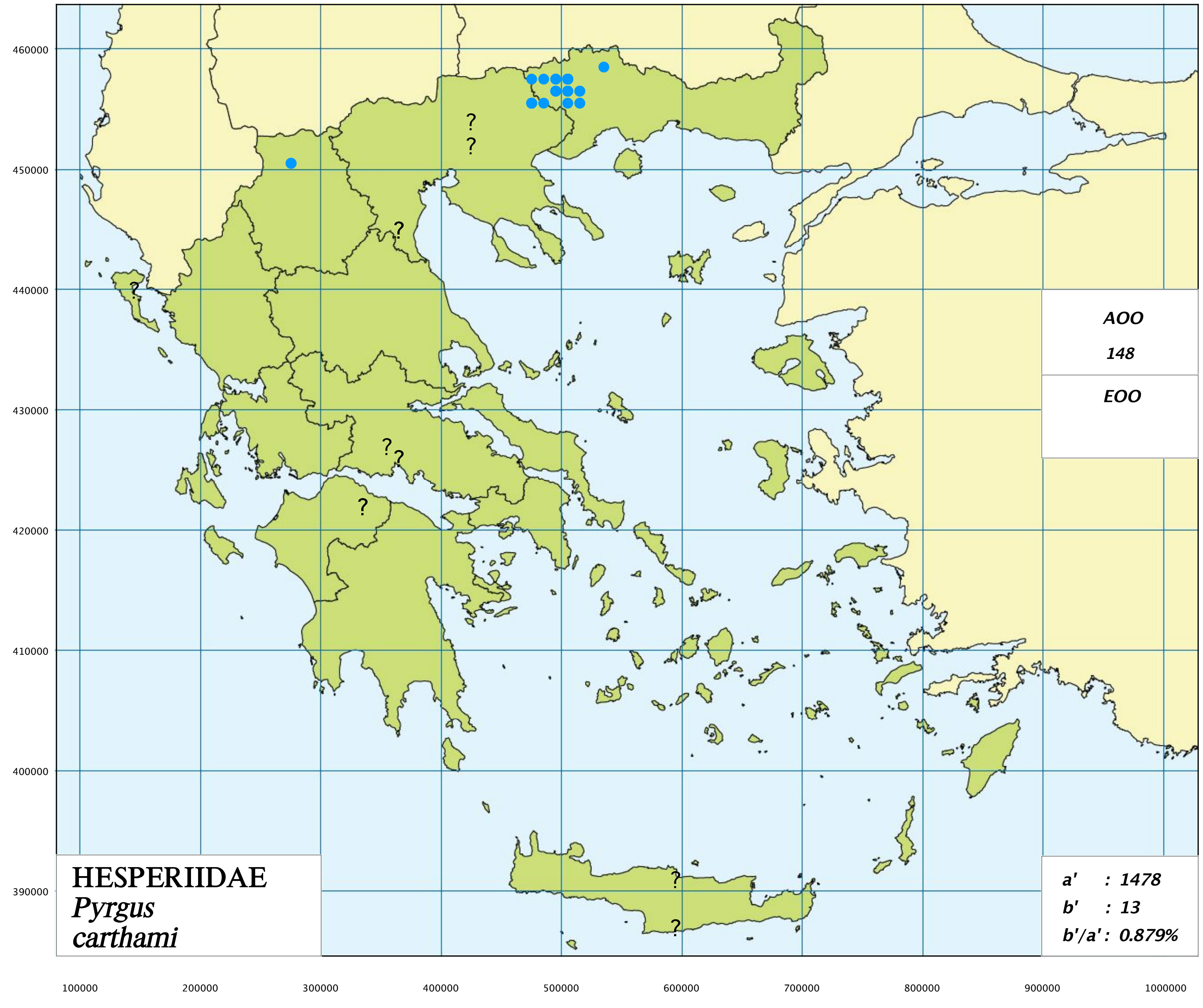


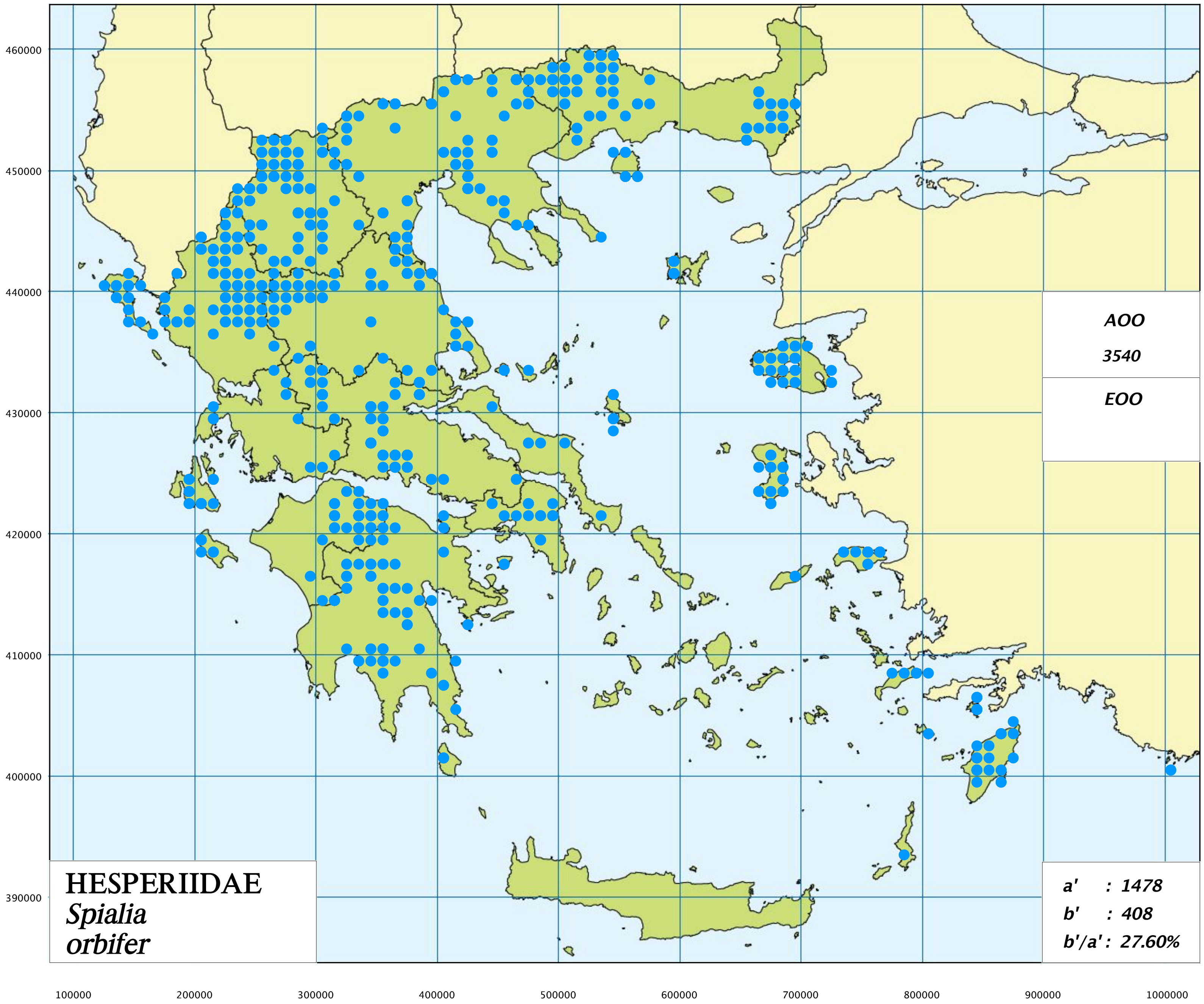
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
792
EOO
HESPERIIDAE
Pyrgus serratulae
a' : 1478
b' : 117
b'/a' : 7.916%

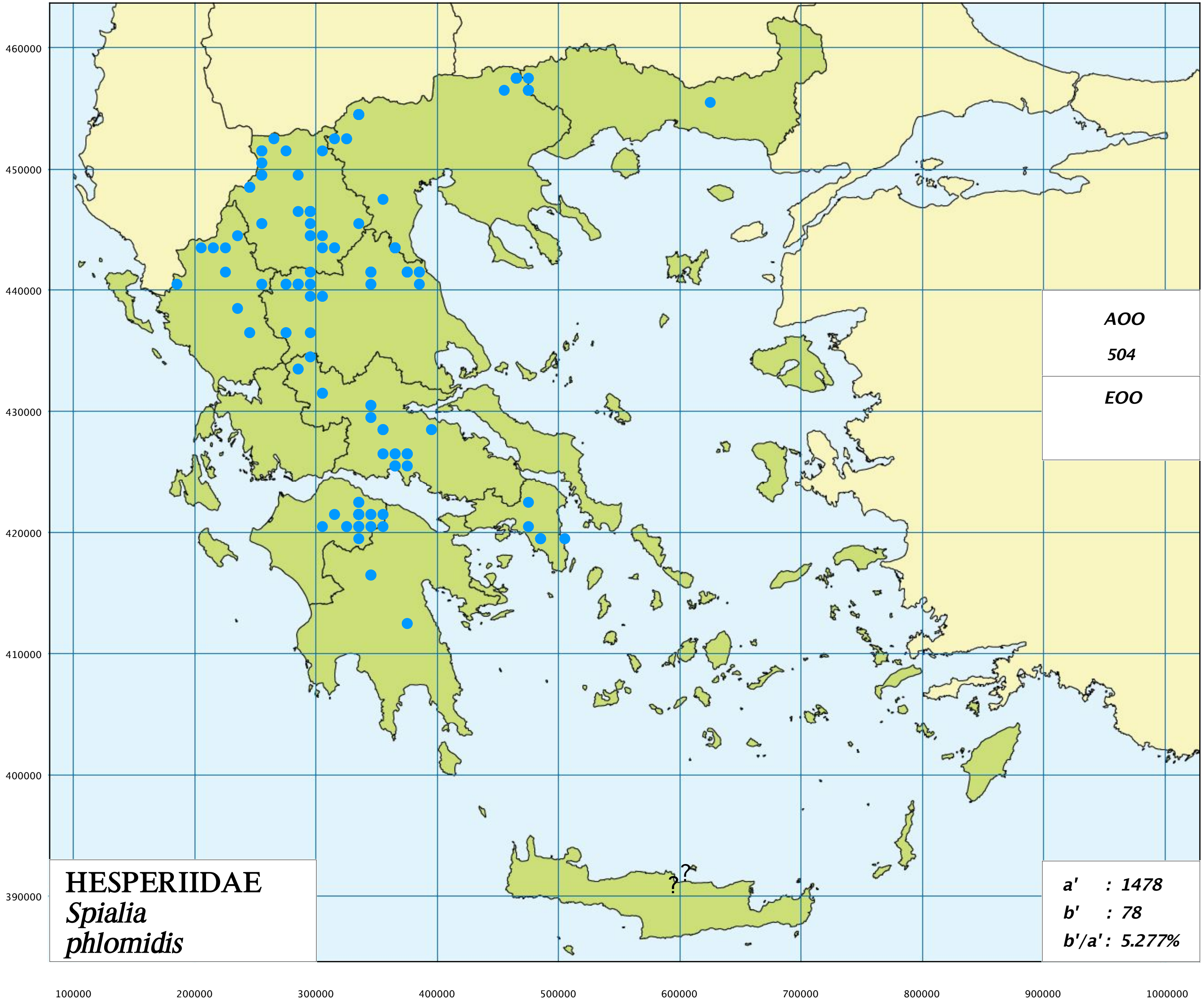


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1032
EOO
HESPERIIDAE
Pyrgus
sidae
a' : 1478
b' : 141
b'/a' : 9.539%


HESPERIIDAE
Pyrgus cinarae
AOO
588
EOO
a' : 1478
b' : 76
b'/a' : 5.142%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
148
EOO
HESPERIIDAE
Pyrgus
carthami
a' : 1478
b' : 13
b'/a' : 0.879%

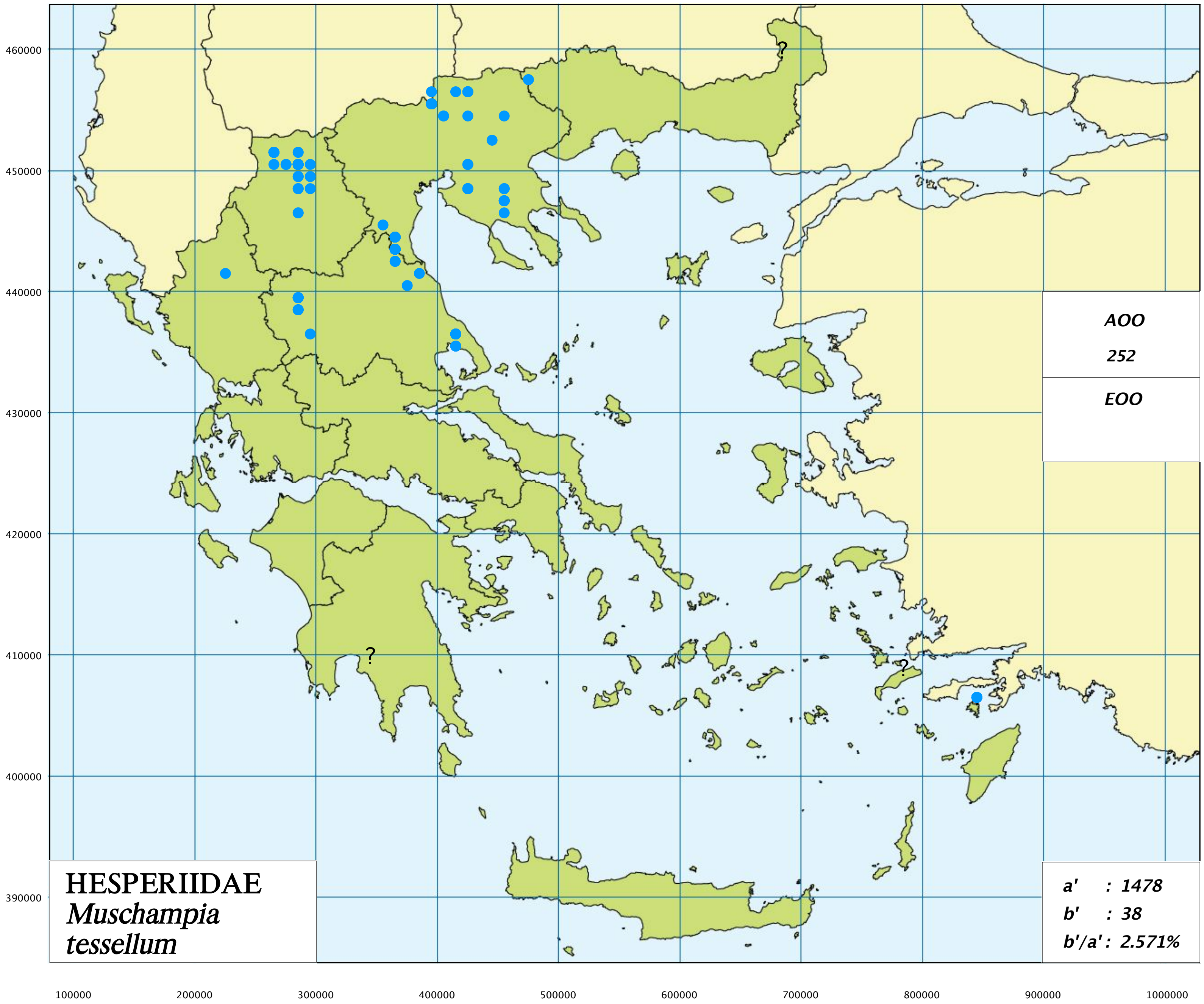

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
3540
EOO
HESPERIIDAE
Spialia
orbifer
a' : 1478
b' : 408
b'/a' : 27.60%

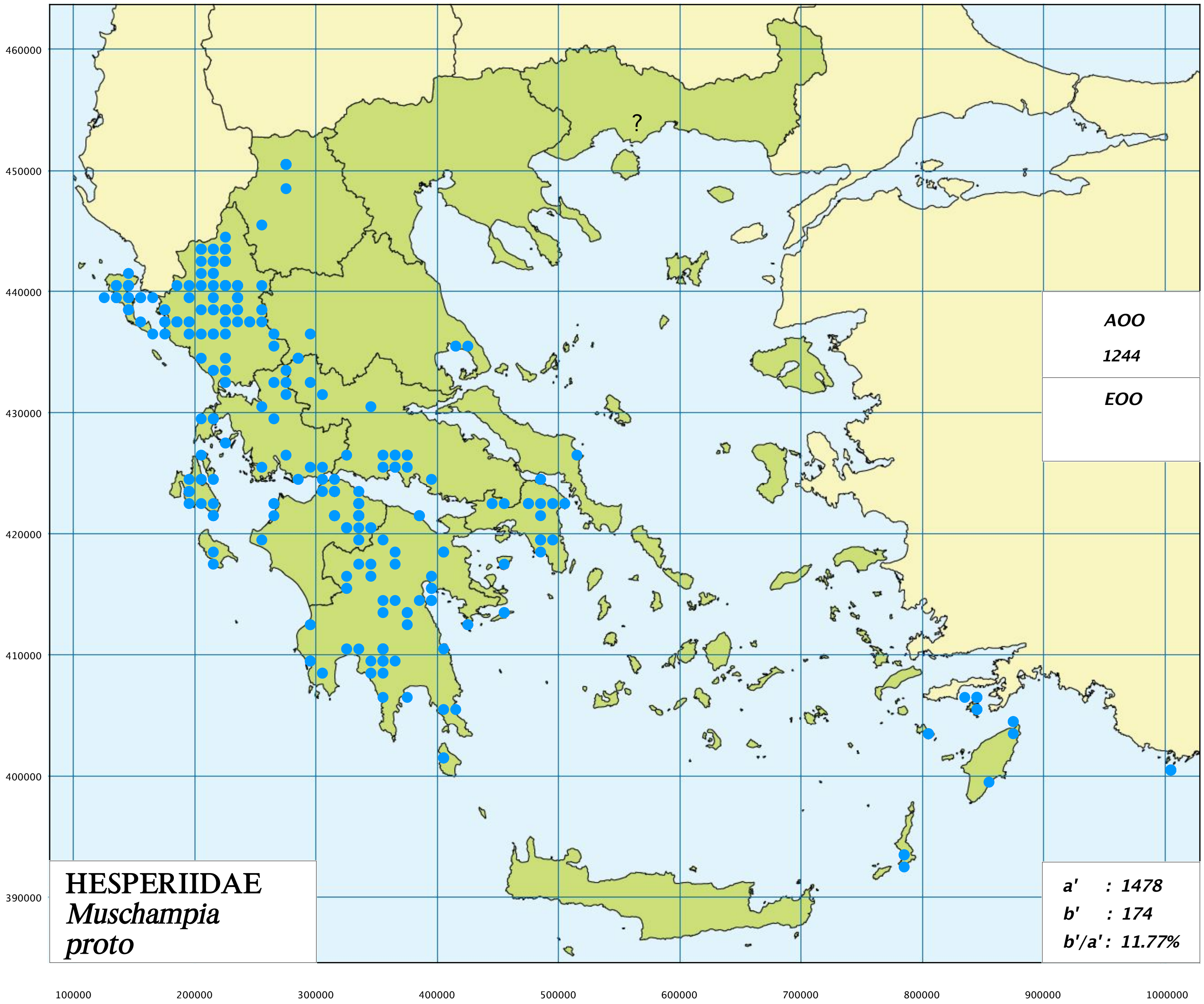

HESPERIIDAE
Spialia
phlomidis
AOO
504
EOO
a' : 1478
b' : 78
b'/a' : 5.277%
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000

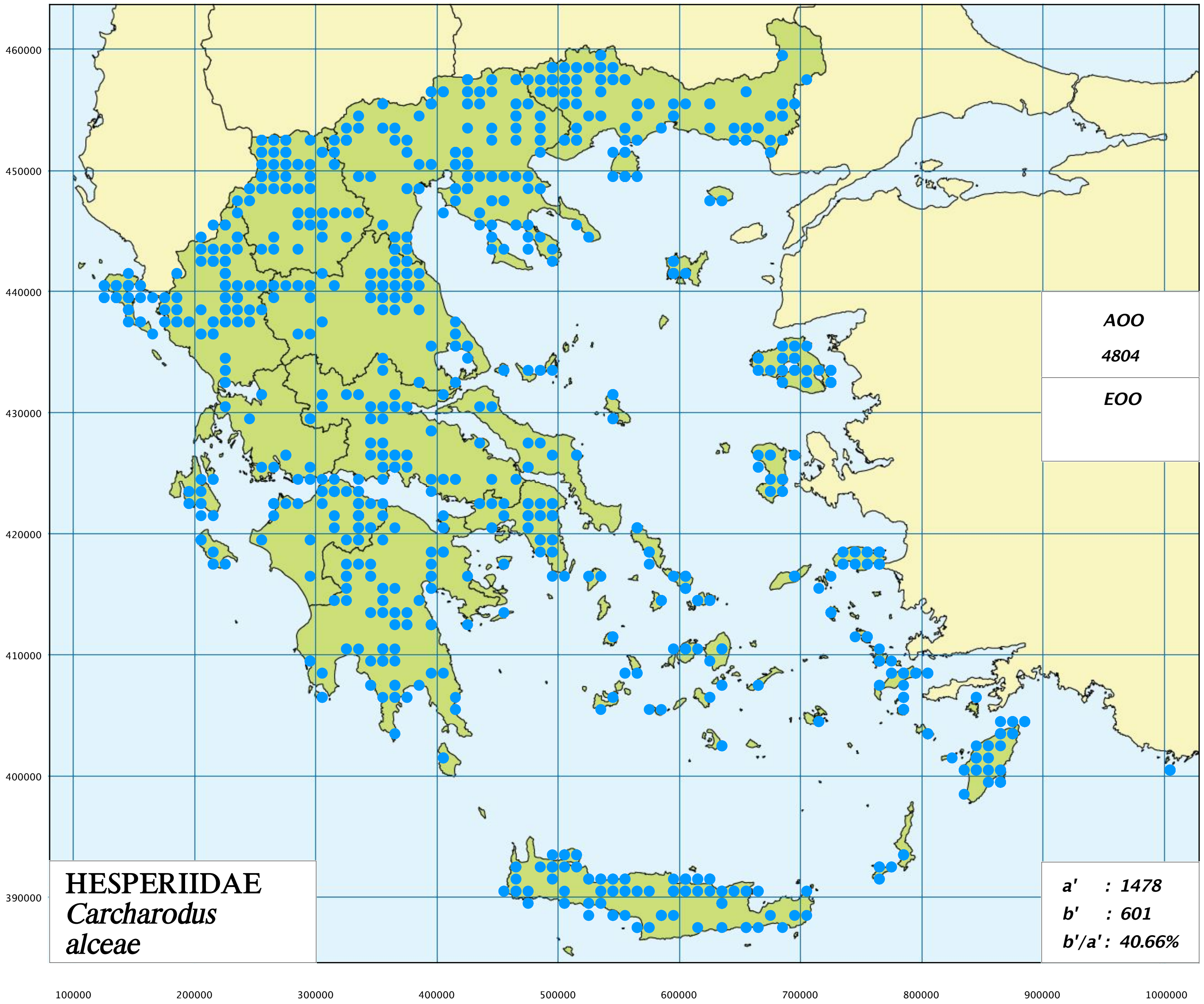
HESPERIIDAE
Muschampia cribrellum

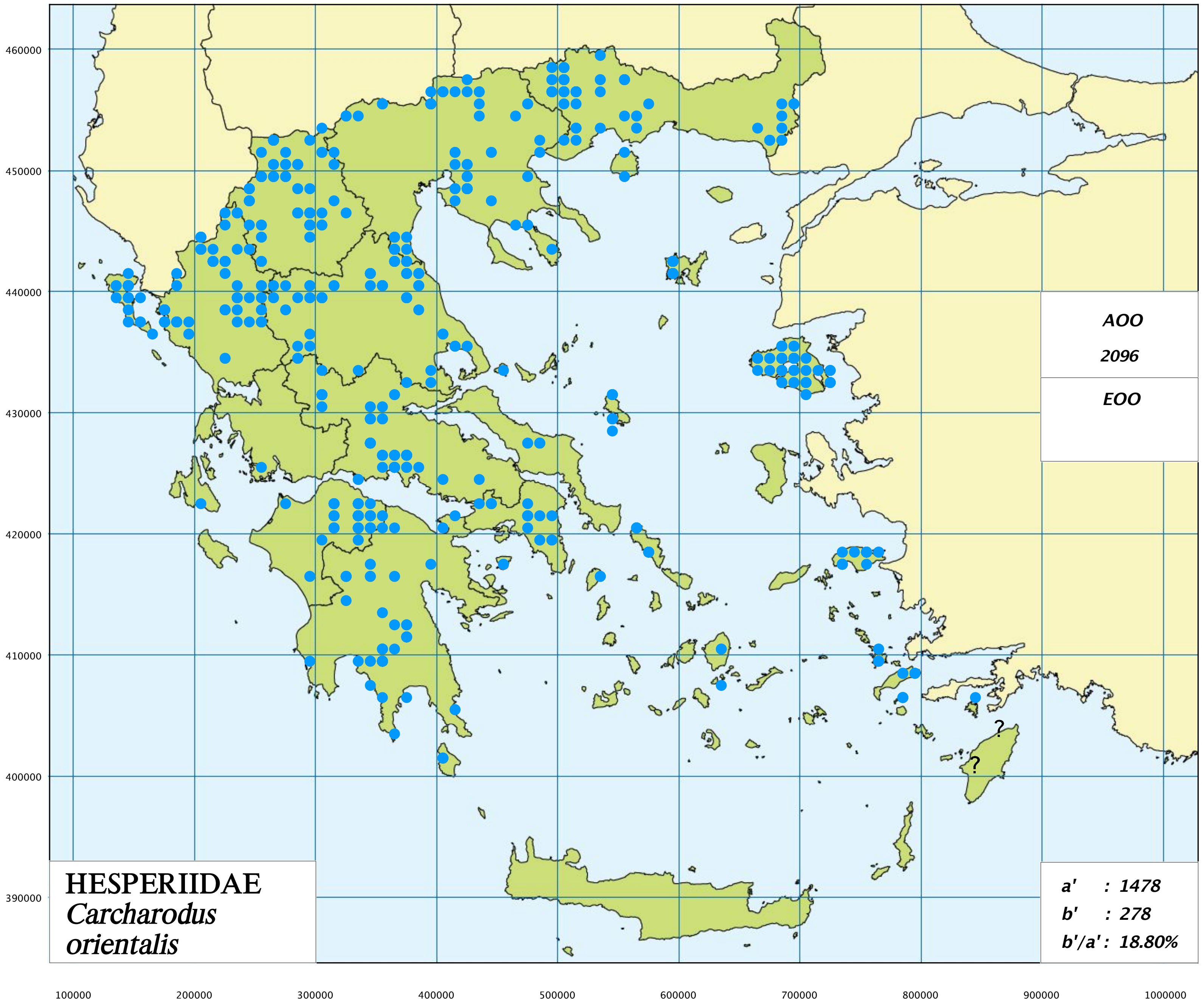
Muschampia cribrellum found in Mt Olympos and Mt. Oite (see in DAVKOV, SLOBODAN & XAVIER MÉRIT: Muschampia cribrellum (Eversmann, 1841) new to the Greek butterfly fauna and found in an unexpected alpine ecosystem (Lepidoptera : Hesperiidae), at: https://www.researchgate.net/publication/316740359)

Το *Muschampia cribrellum* βρέθηκε στον Όλυμπο και στην Οίτη (δες στο DAVKOV, SLOBODAN & XAVIER MÉRIT: Muschampia cribrellum (Eversmann, 1841) new to the Greek butterfly fauna and found in an unexpected alpine ecosystem (Lepidoptera : Hesperiidae), at: https:// www.researchgate.netpublication/316740359)

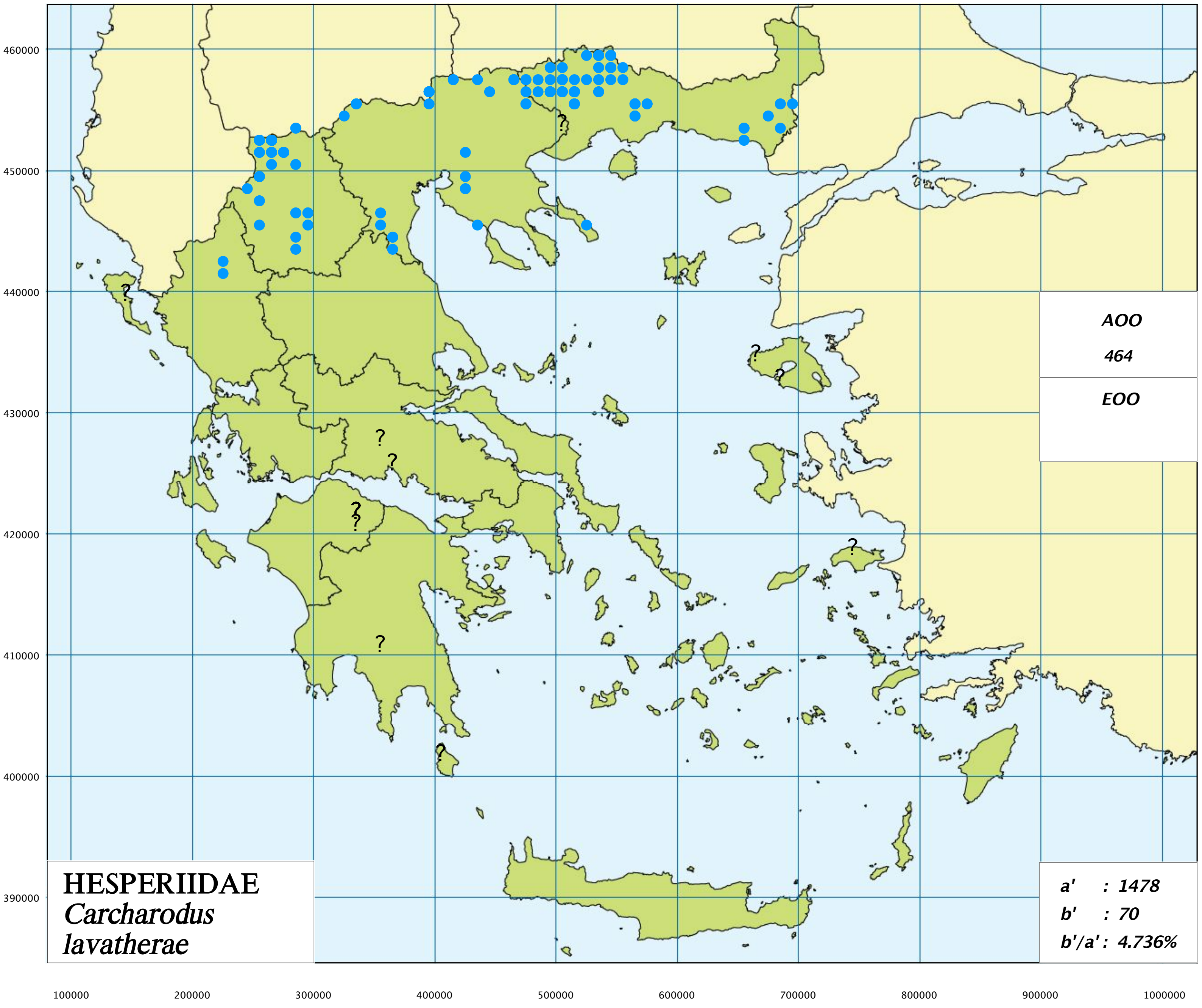

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
?
AOO
252
EOO
HESPERIIDAE
Muschampia tessellum
a' : 1478
b' : 38
b'/a' : 2.571%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
1244
EOO
HESPERIIDAE
Muschampia
proto
a' : 1478
b' : 174
b'/a' : 11.77%

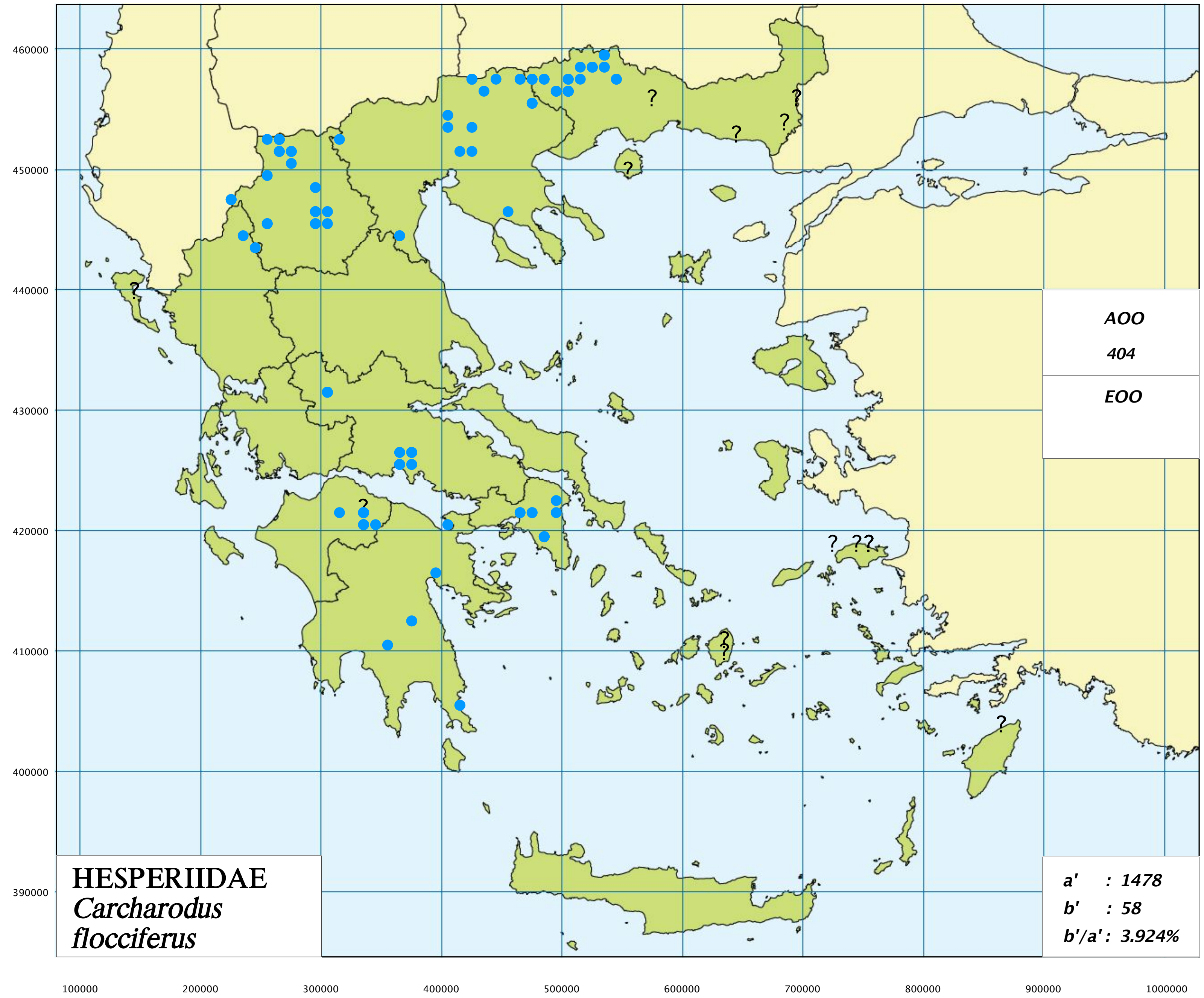

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4804
EOO
HESPERIIDAE
Carcharodus
alceae
a' : 1478
b' : 601
b'/a' : 40.66%



Αμφίβολη αναγνώριση / Identification uncertain

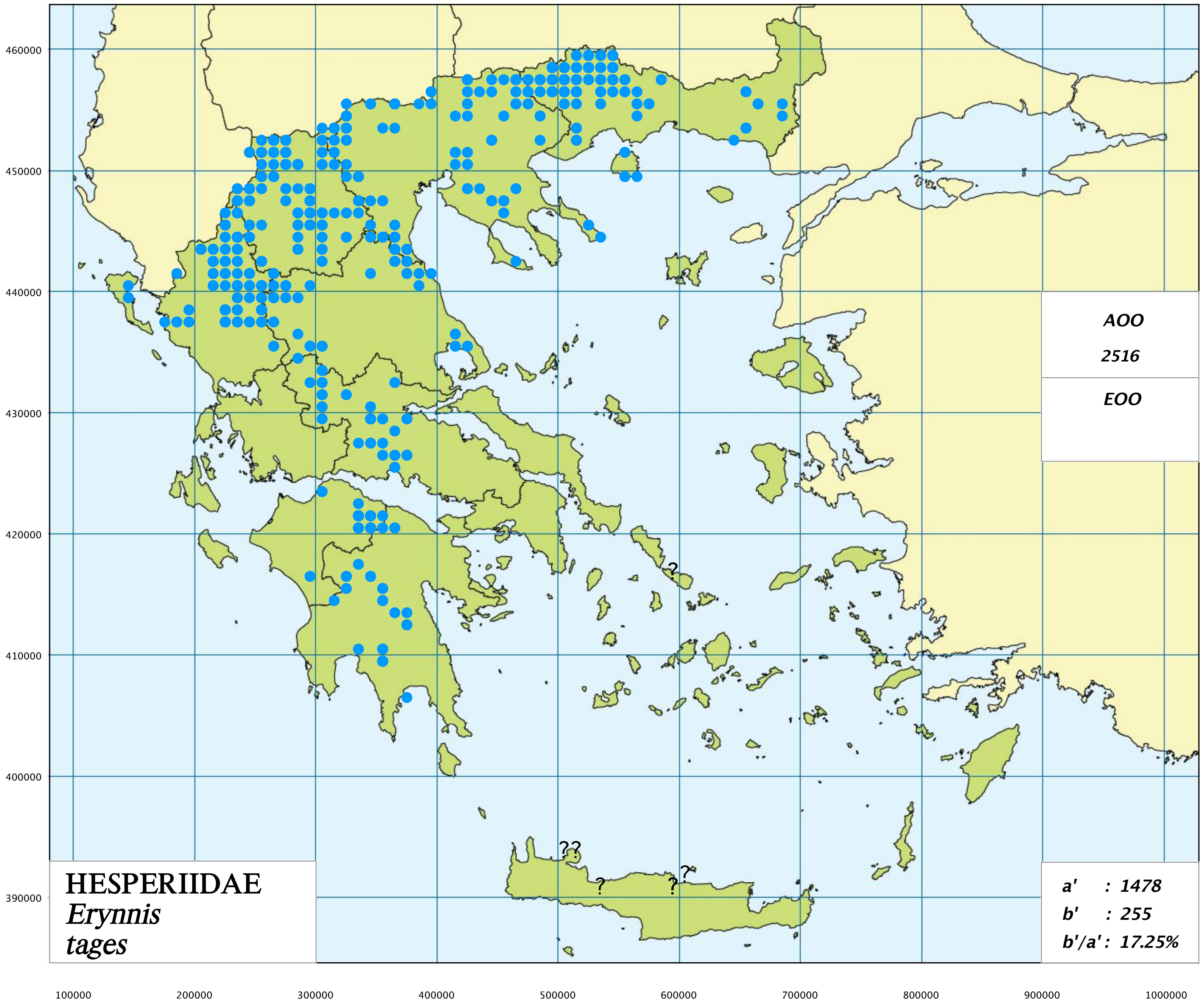


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
464
EOO
HESPERIIDAE
Carcharodus lavatherae
a' : 1478
b' : 70
b'/a' : 4.736%

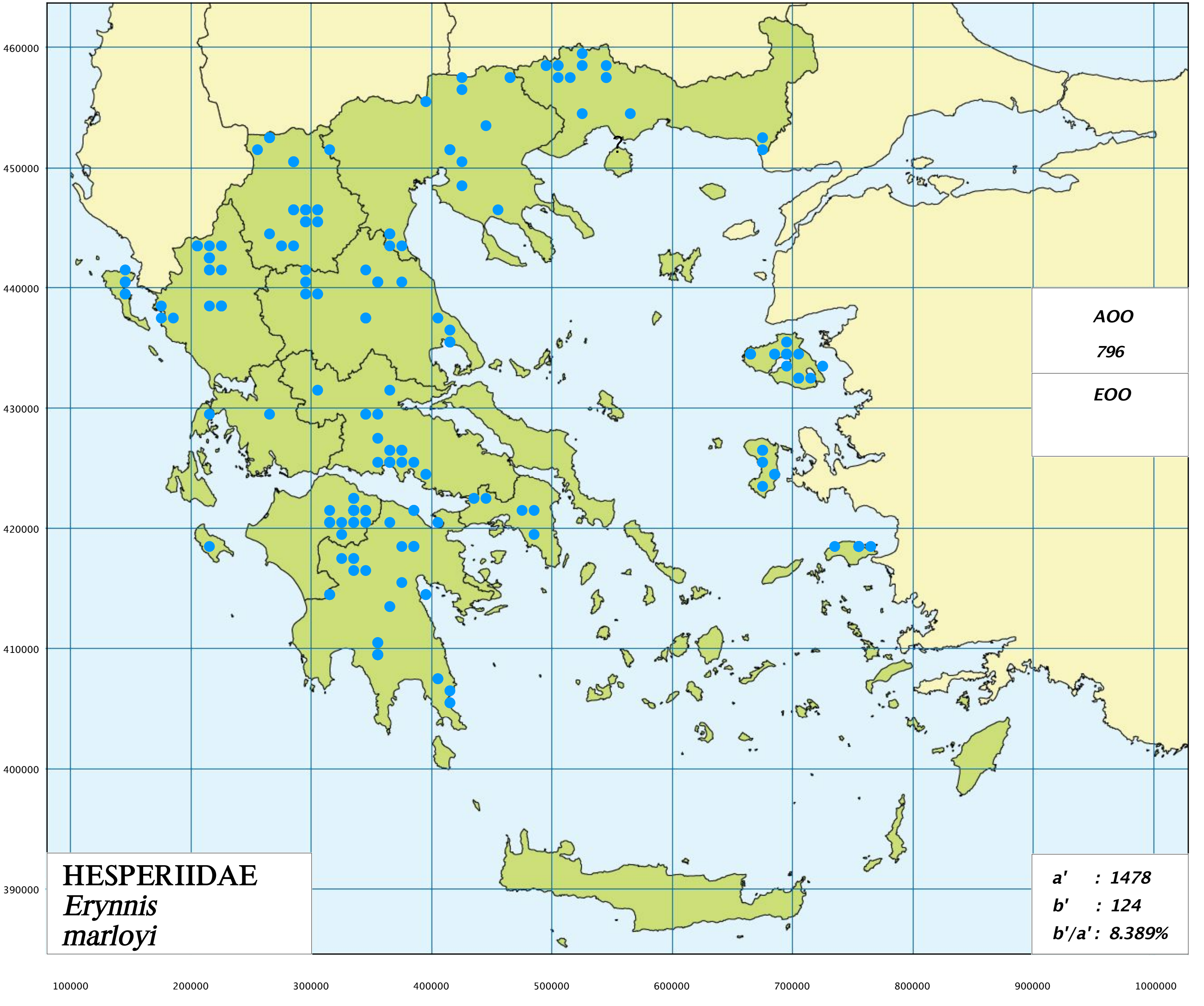


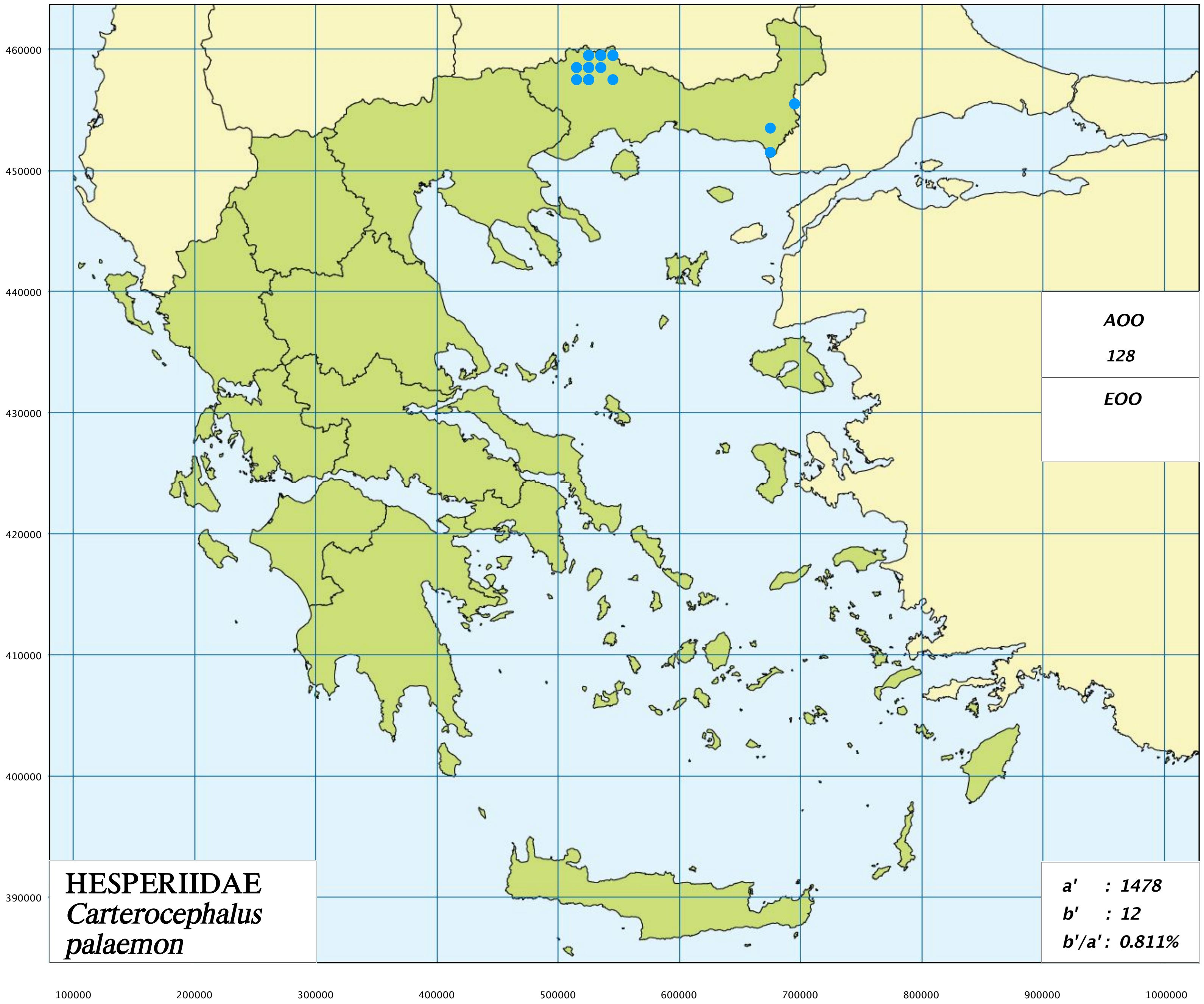
Αμφίβολη αναγνώριση / Identification uncertain

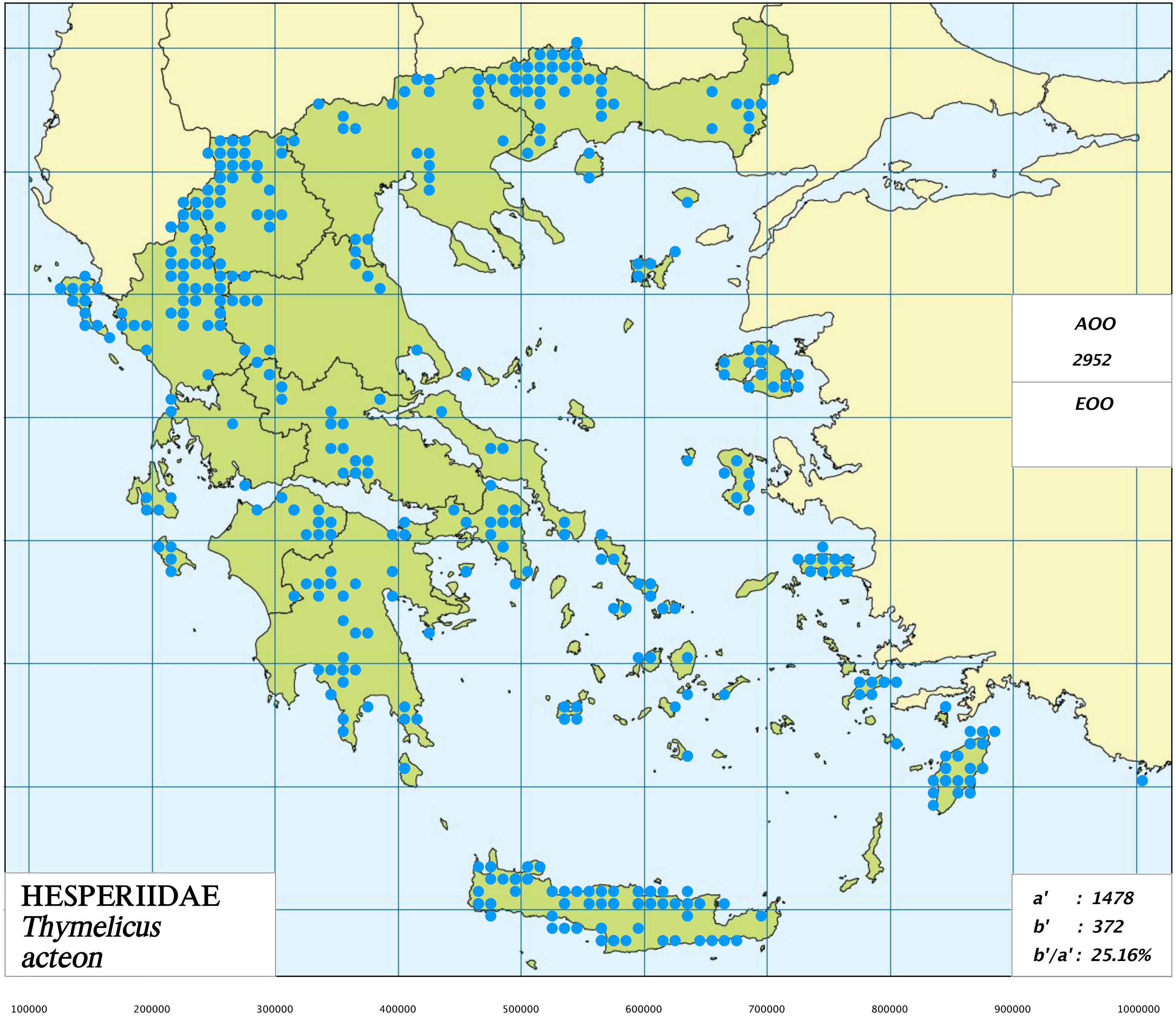
Αμφίβολη αναγνώριση/ Identification uncertain

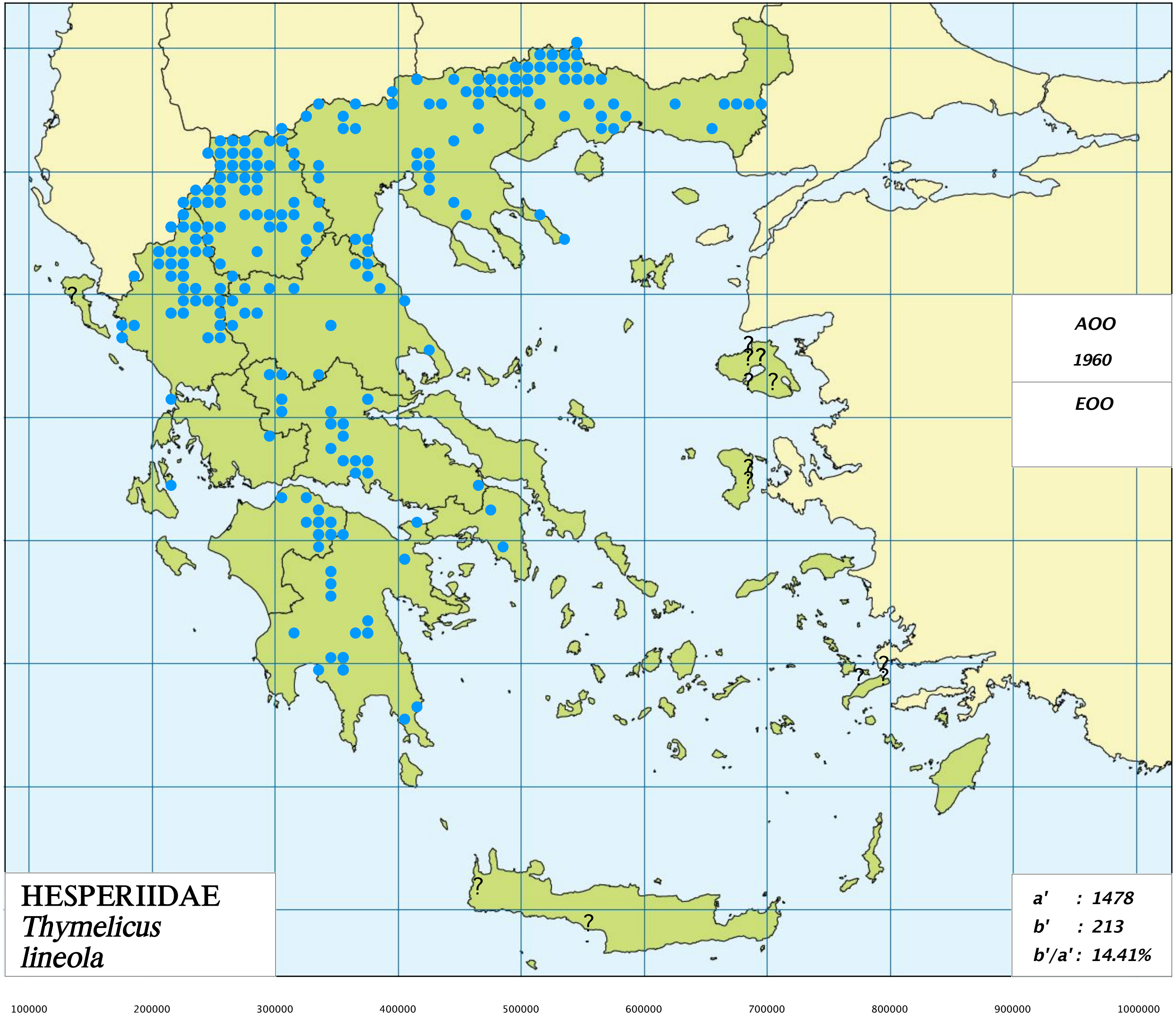


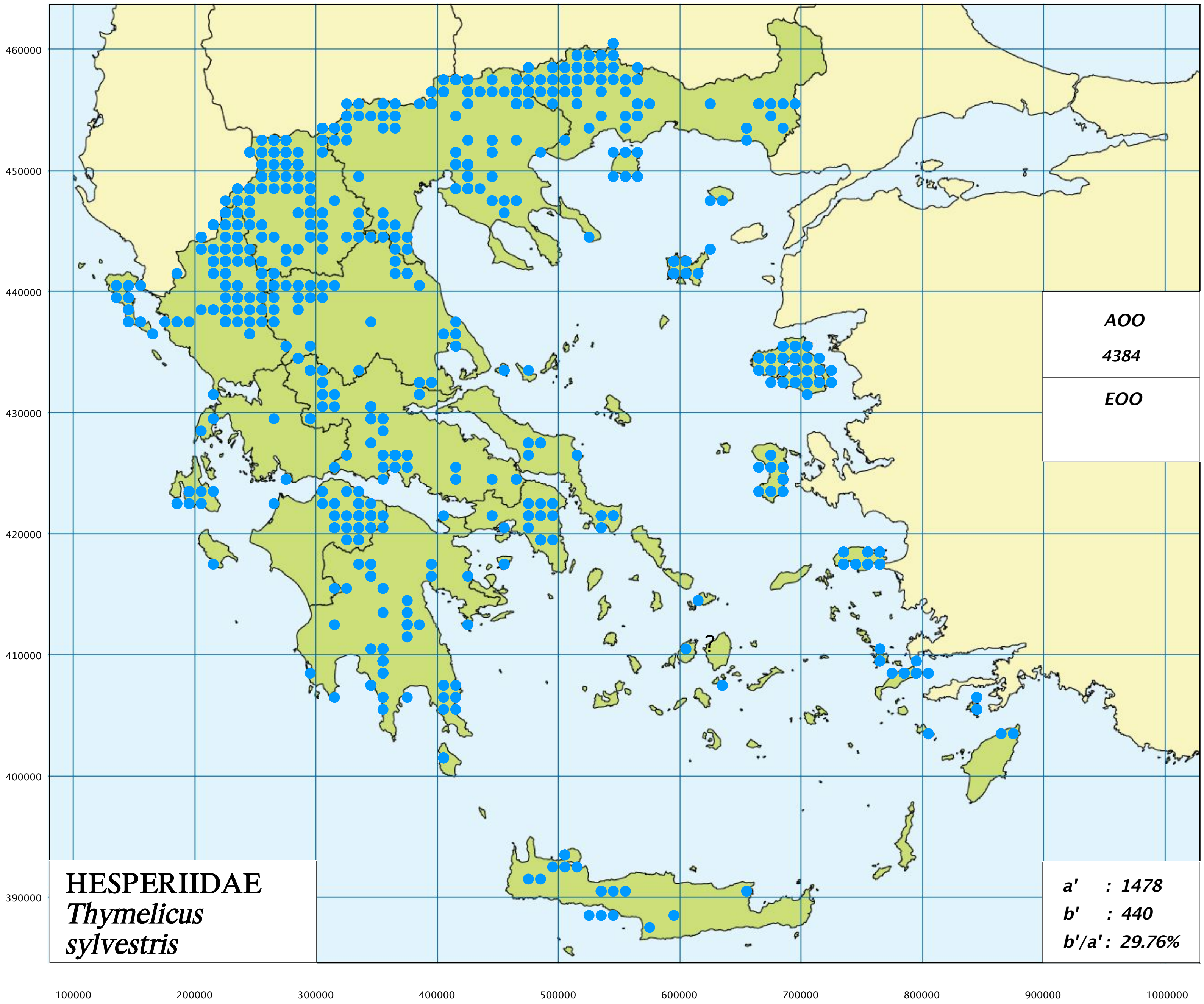
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2516
EOO
HESPERIIDAE
Erynnis
tages
a' : 1478
b' : 255
b'/a' : 17.25%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
AOO
796
EOO
HESPERIIDAE
Erynnis
marloyi
a' : 1478
b' : 124
b'/a' : 8.389%

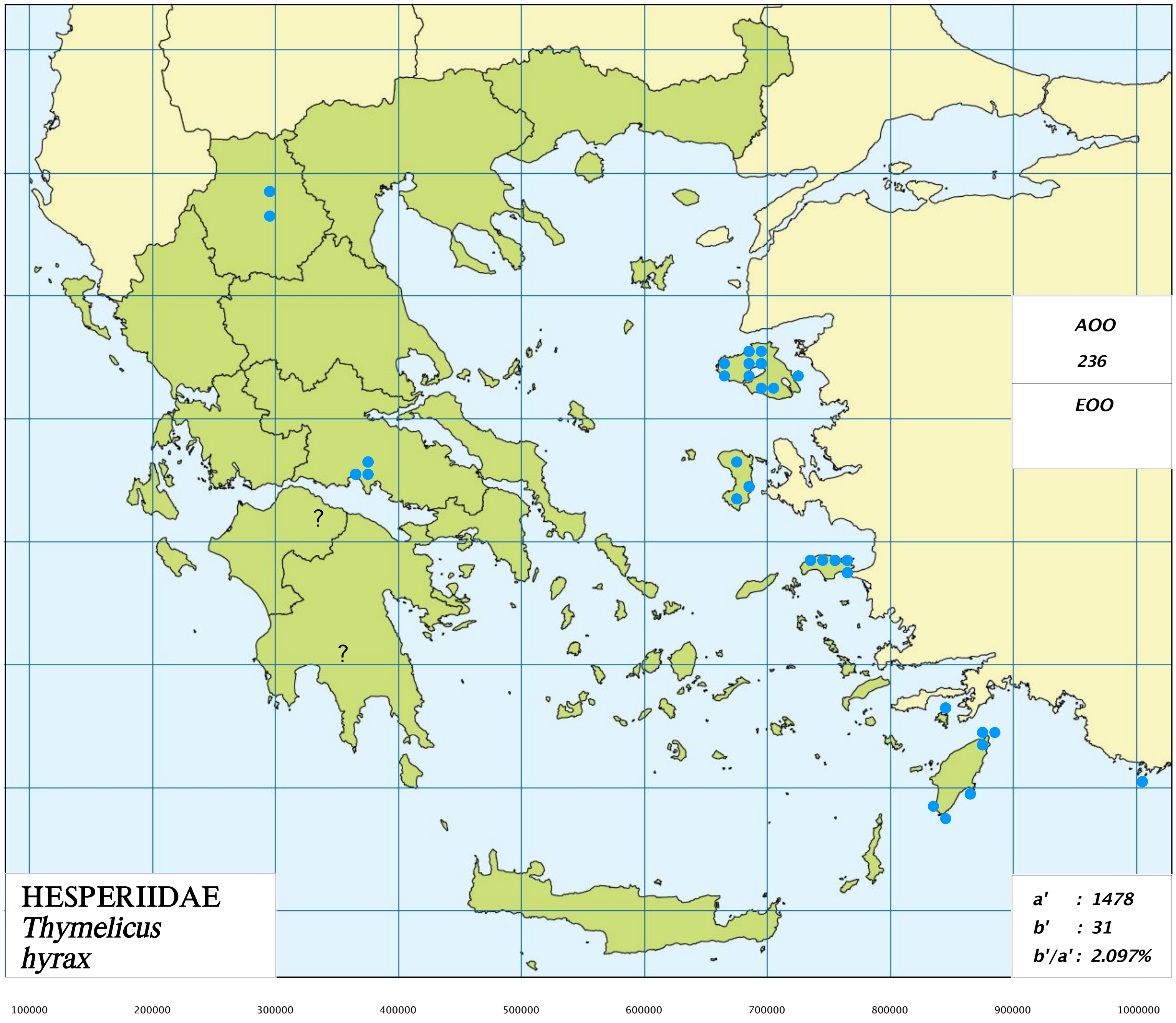

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
128
EOO
HESPERIIDAE
Carterocephalus
palaemon
a' : 1478
b' : 12
b'/a' : 0.811%

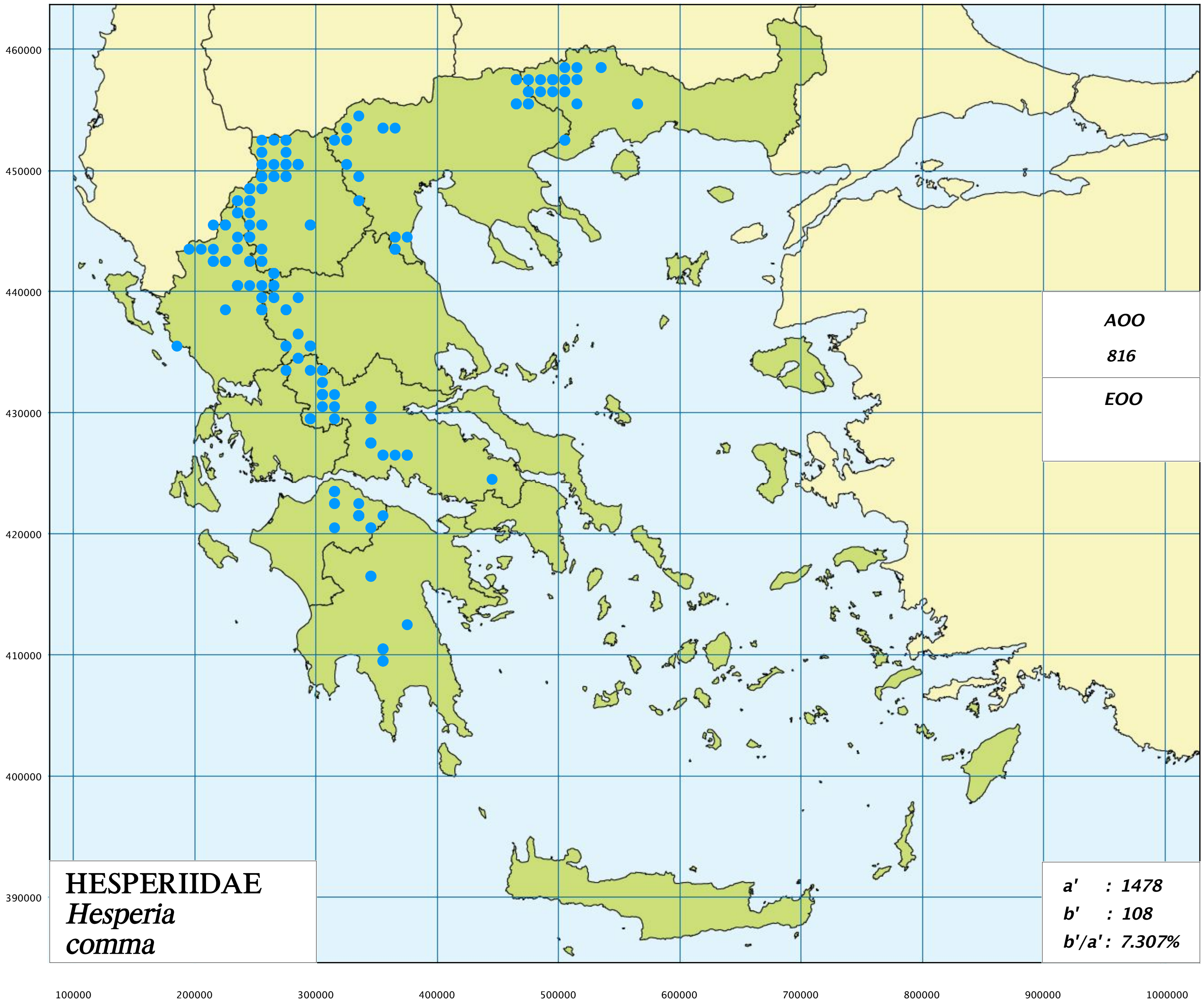

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
2952
EOO
HESPERIIDAE
Thymelicus
acteon
a' : 1478
b' : 372
b'/a' : 25.16%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1960
EOO
HESPERIIDAE
Thymelicus lineola
a' : 1478
b' : 213
b'/a' : 14.41%

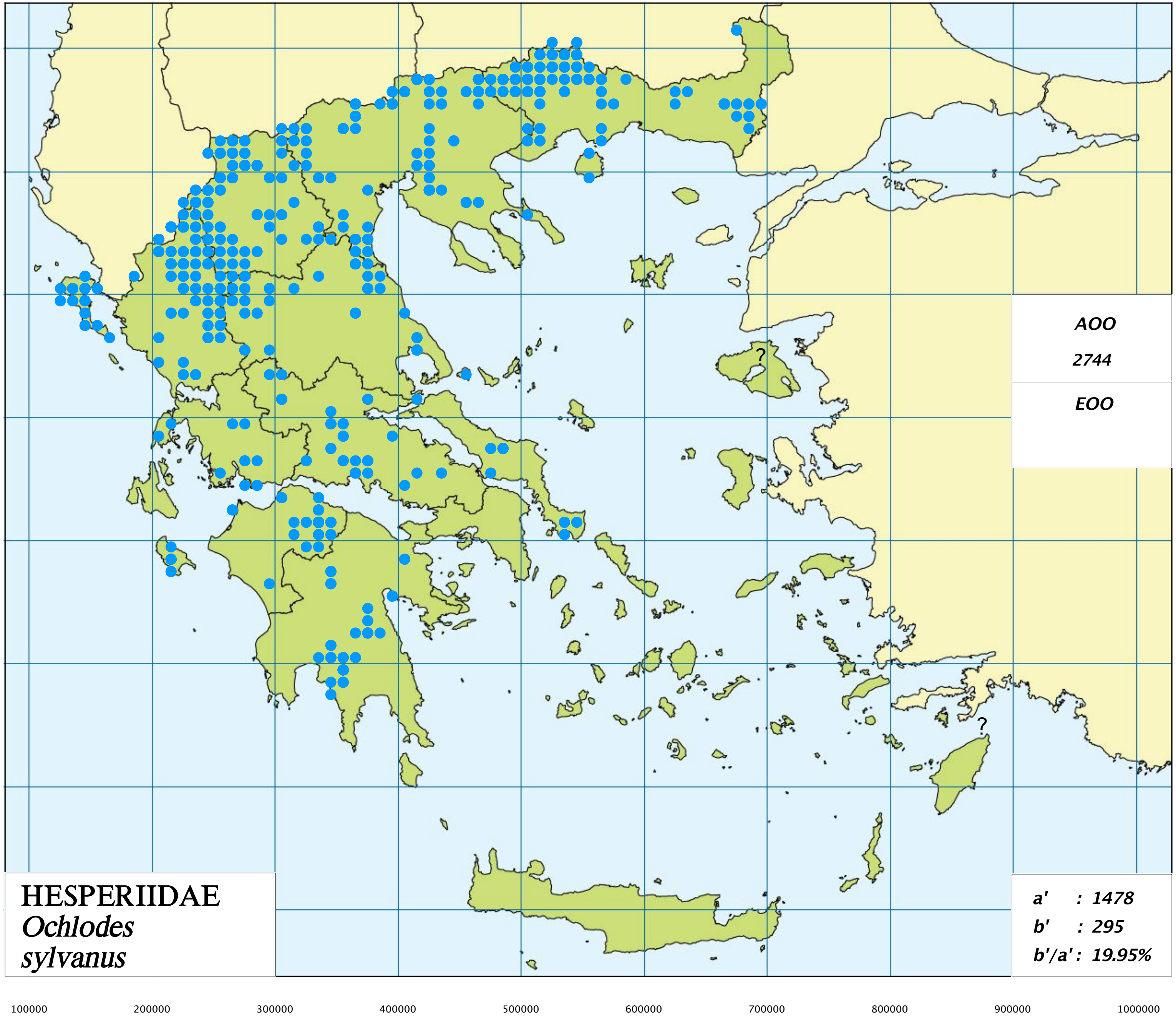


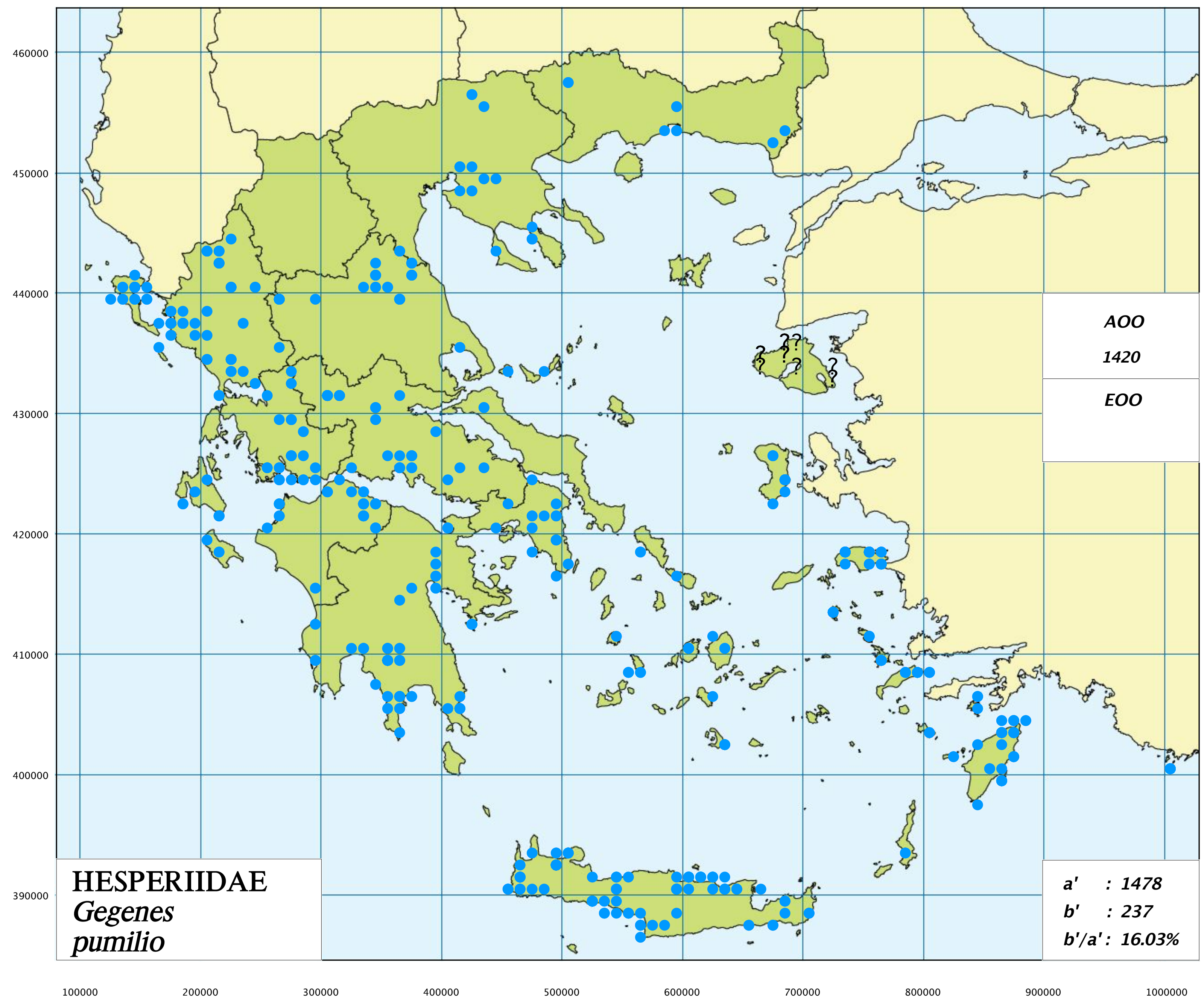
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4384
EOO
?
a' : 1478
b' : 440
b'/a' : 29.76%
HESPERIIDAE
Thymelicus
sylvestris


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
236
EOO
a' : 1478
b' : 31
b'/a' : 2.097%
HESPERIIDAE
Thymelicus
hyrax

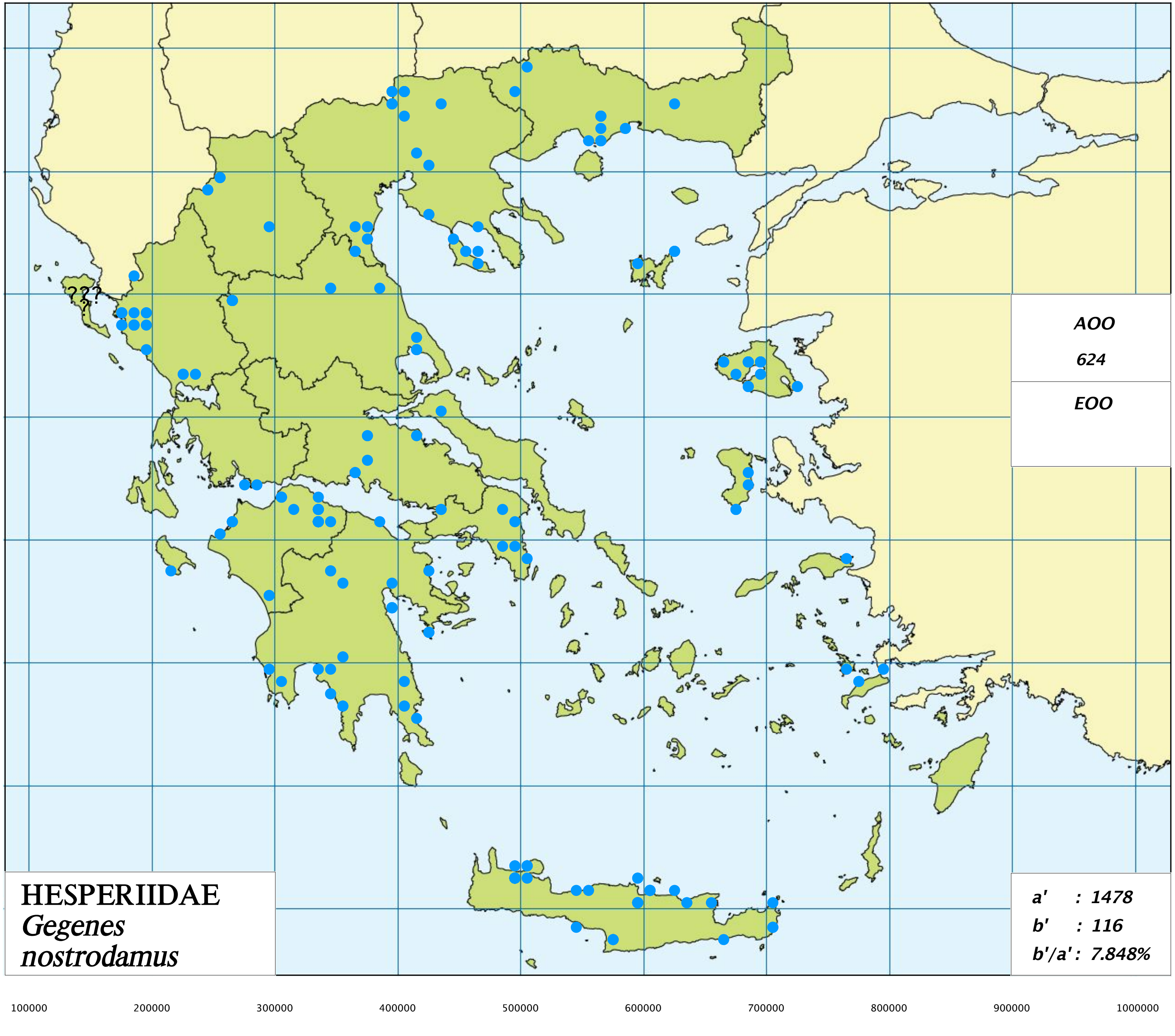


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
816
EOO
HESPERIIDAE
Hesperia
comma
a' : 1478
b' : 108
b'/a' : 7.307%

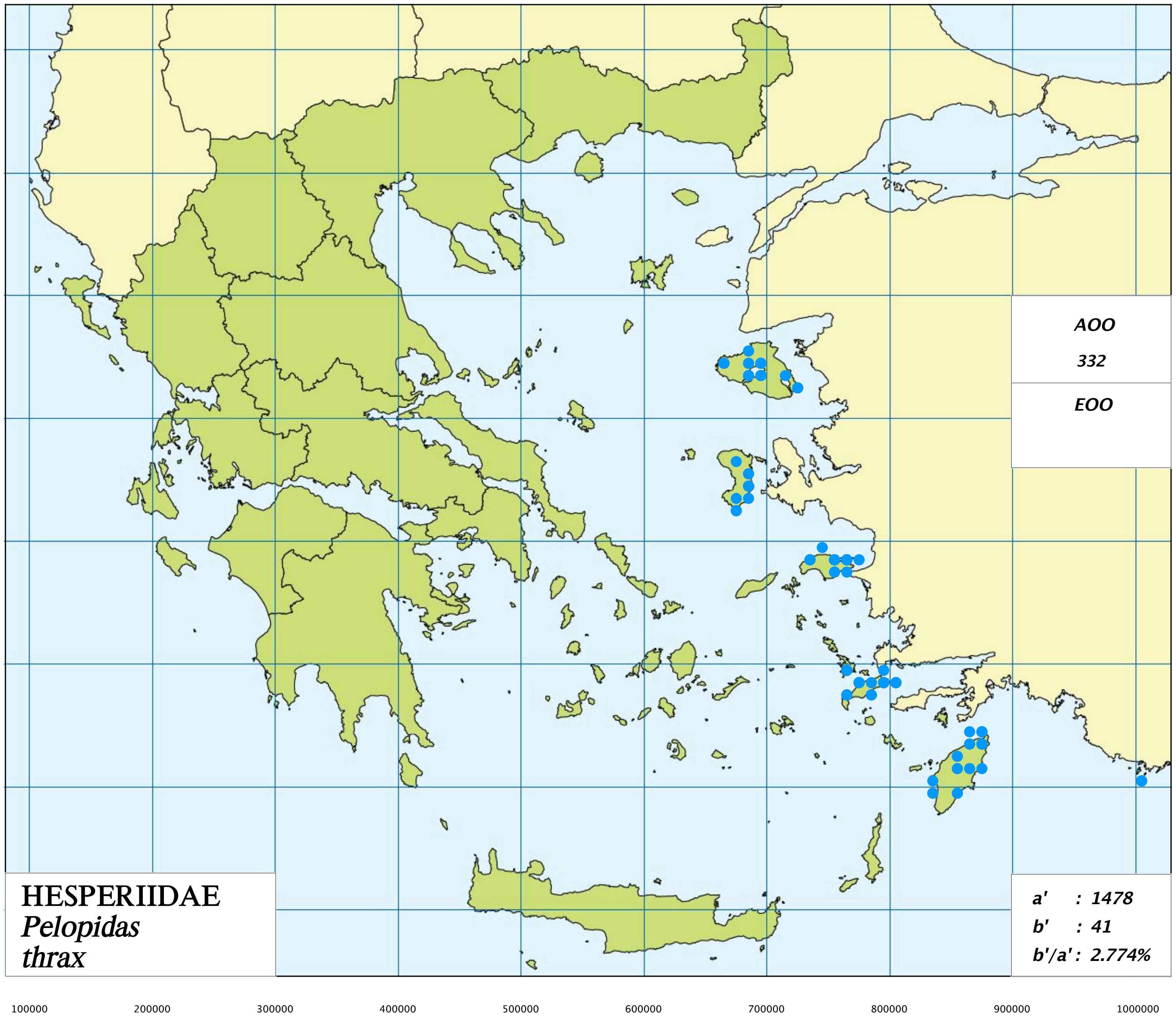

460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
?
?
AOO
2744
EOO
HESPERIIDAE
Ochlodes sylvanus
a' : 1478
b' : 295
b'/a' : 19.95%



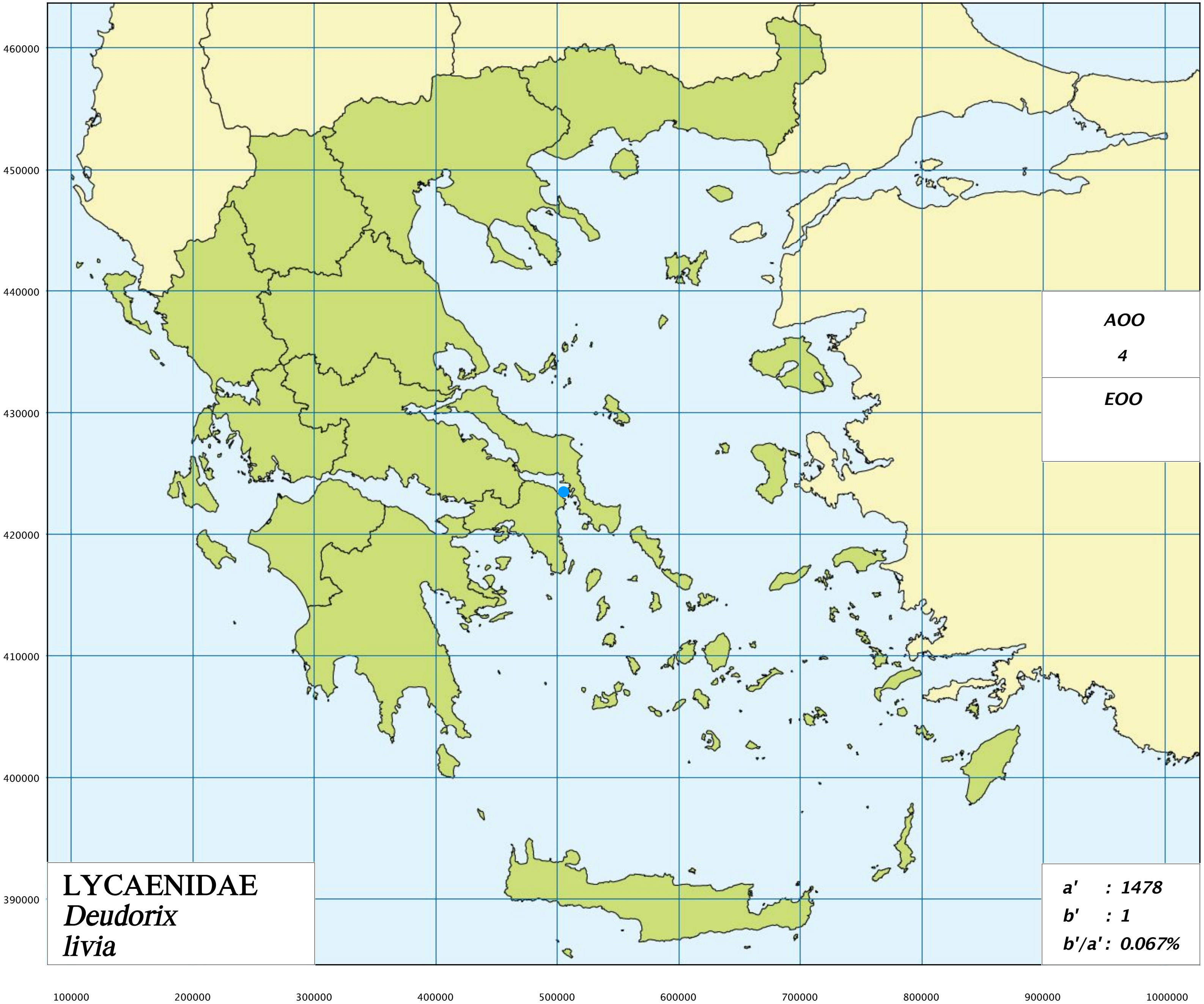
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
1420
EOO
HESPERIIDAE
Gegenes
pumilio
a' : 1478
b' : 237
b'/a' : 16.03%



HESPERIIDAE
Gegenes nostrodamus
AOO
624
EOO
a' : 1478
b' : 116
b'/a' : 7.848%
???
460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
332
EOO
HESPERIIDAE
Pelopidas
thrax
a' : 1478
b' : 41
b'/a' : 2.774%


460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4
EOO
?
NYMPHALIDAE
Thaleropis
ionia
a' : 1478
b' : 0
b'/a' : 0%



460000
450000
440000
430000
420000
410000
400000
390000
100000
200000
300000
400000
500000
600000
700000
800000
900000
1000000
AOO
4
EOO
LYCAENIDAE
Deudorix
livia
a' : 1478
b' : 1
b'/a' : 0.067%