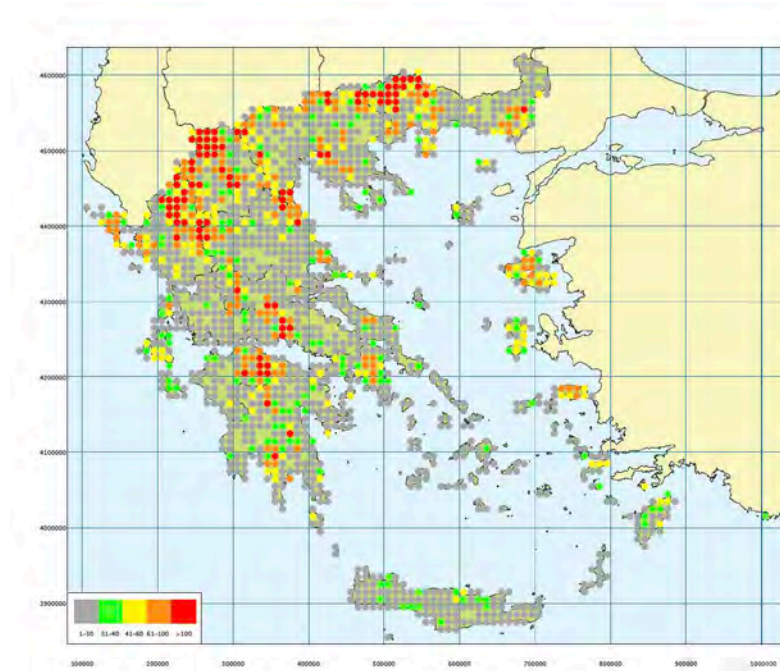


# ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

Νέοι Χάρτες κατανομής των ειδών 3.3', Νέος Χάρτης 4.15' και Νέος Χάρτης 4.16'  
του Λάζαρου Ν. Παμπέρη



GGRS87

## THE BUTTERFLIES OF GREECE

New Maps distribution of species 3.3', New Chart 4.15' and New Chart 4.16'

by Lazaros N. Pamperis

2022

## ΠΡΟΛΟΓΟΣ

Στις επόμενες σελίδες παρουσιάζονται νέοι 236 χάρτες εξάπλωσης των ειδών δηλαδή οι Χάρτες 3.3', νέος Χάρτης 4.15' (ανάλογος αυτόν στην σελίδα 736 της δεύτερης έκδοσης του βιβλίου ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ, 2009) και νέος Χάρτης 4.16' (στην σελίδα 738).

Οι νέοι αυτοί χάρτες έχουν συντεταγμένες του συστήματος GGRS87 και αφορούν συνολικά τις 1607 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται στους Χάρτες 4.3' η ΑΟΟ (Area Of Occurance, 2X2Km) σε Km<sup>2</sup>, Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 437283 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2021 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2022) αλλά κυρίως στις δημοσιευμένες εργασίες σε εντομολογικά περιοδικά και στην αποστολή (μετά την δεύτερη έκδοση του βιβλίου) σχολίων και καταγραφών για τις πεταλούδες της Ελλάδας από πολλούς, από την Ελλάδα και το εξωτερικό, των οποίων τα ονόματα αναφέρονται παρακάτω. Σε όσους προσέφεραν τα σχόλια και όσους εμπιστεύθηκαν τις καταγραφές των, αφιερώνεται το παρόν μαζί με την ευγνωμοσύνη μου.

Επισημαίνεται η ανάρτηση πολλών φωτογραφιών και καταγραφών σε ιστοτόπους (μερικές διευθύνσεις των οποίων αναφέρονται παρακάτω) και ιδιαίτερα στην ομάδα του Facebook για τις πεταλούδες της Ελλάδας και της Κύπρου (Butterflies & Moths of Greece & Cyprus με 3887 μέλη την 7 XII 2021) στο <http://www.facebook.com/groups/420659294633829/>.

Τώρα στην Ελλάδα υπάρχουν 236 είδη πεταλούδων σύμφωνα με το Wiemers et al (2018) στο <https://doi.org/10.3897/zookeys.811.28712>

Σε ωρισμένες από τις σελίδες παρουσιάζονται, κατά περίπτωση εάν απαιτείται, και πρόσθετα διευκρινιστικά σχόλια και σύνδεσμοι (Links) για ιστοσελίδες με φωτογραφίες και λεπτομέρειες των φτερών, που προτείνονται ως χρήσιμες για αναγνώριση των ειδών με τις φωτογραφίες.

Για επιπλέον 165 νέες φωτογραφίες και περισσότερες λεπτομέρειες στο URL: <https://www.pamperis.gr> και στις 6 ελεύθερες εφαρμογές στο [https://www.pamperis.gr/btf\\_site/](https://www.pamperis.gr/btf_site/) και στο <https://www.pamperis.gr/recognition/index.html> για την αυτόματη αναγνώριση των πεταλούδων.



# PREFACE

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

The new Maps are made with coordinates in GGRS87, after in total 437283 records for the butterflies of Greece (till 31 XII 2021) for the 1607 investigated localities 10X10 km (compare to 265134 records, in 2008). For all species AOO (Area Of Occupancy 2X2Km) is noted on Maps 3.3' in Km<sup>2</sup>.

This increase in records is made after personal investigations (from 2008-2022) and mainly after the many published papers in entomological magazines and the generous offer from many recorders (listed below) from Greece and abroad, who send comments and records for the butterflies of Greece. This update is dedicated to all those who offer their comments and send and trust to me their records; to all I express my gratitude.

A list with a number of sites (from which records for the butterflies of Greece were obtained) is presented; the existence of a group in Facebook for the Butterflies and Moths of Greece and Cyprus is also noted (with 3887 members at 7 XII 2021) in <http://www.facebook.com/groups/420659294633829/>.

Now there are 236 species in Greece; see in Wiemers et al (2018) in <https://doi.org/10.3897/zookeys.811.28712>

Additional comments are noted in some of the pages; also there are Links to web pages with photos and details of the wings, suggested for a correct identification from photos.

For 165 new photographs, 6 free applications and more details see in URL: <https://www.pamperis.gr> and in [https://www.pamperis.gr/btf\\_site/](https://www.pamperis.gr/btf_site/) and in <https://www.pamperis.gr/recognition/index.html> for automatic recognition of butterflies.

Larissa 1 January 2022

Lazaros N. Pamperis

**SELECTED SITES FROM WHICH DATA FOR THE BUTTERFLIES OF GREECE WERE OBTAINED  
ΕΠΙΛΕΓΜΕΝΟΙ ΙΣΤΟΤΟΠΟΙ ΑΠΟ ΤΟΥΣ ΟΠΟΙΟΥΣ ΑΝΤΛΗΘΗΚΑΝ ΚΑΤΑΓΡΑΦΕΣ ΓΙΑ ΤΙΣ  
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**FLICKR** <http://www.flickr.com>

**Butterflies & Moths of Palaearctic Regions** <http://www.euroleps.ch>

**EUROPEAN INTERESTS GROUP** <https://butterfly-conservation.org/in-your-area/european-interests-group>

**FACEBOOK Butterflies & Moths of Greece & Cyprus** <http://www.facebook.com/groups/420659294633829/>

**GREENWINGS** <http://greenwings.co/>

**HOME OF EUROBUTTERFLIES** <http://www.eurobutterflies.com>

**HONEYGUIDE TOURS** <http://www.honeyguide.co.uk/>

**iNaturalist** <https://www.inaturalist.org>

**LEPIFORUM** <http://www.lepiforum.de/>

**NATURALIST** <http://www.naturalist.co.uk>

**NATURE LINK** [www.geocities.com/pelionnature/](http://www.geocities.com/pelionnature/)

**NATURETREK** <https://www.naturetrek.co.uk/>

**OBSERVATION** <https://observation.org/>

**PROJECT NOAH** <https://www.projectnoah.org/>

**pyrgus.de** [http://www.pyrgus.de/index\\_en.php](http://www.pyrgus.de/index_en.php)

**SPARTIA WILDLIFE** <http://www.spatiawildlife.com/>

**ΔΙΚΤΥΟ ΕΡΕΥΝΗΤΩΝ ΠΕΡΙΒΑΛΛΟΝΤΟΣ** <http://62.38.203.210/natura/>

**ΘΡΑΚΙΚΟΣ ΗΛΕΚΤΡΟΝΙΚΟΣ ΘΗΣΑΥΡΟΣ** <http://www.xanthi.ilsp.gr/>

**ΜΟΥΣΕΙΟ ΓΟΥΛΑΝΔΡΗ ΦΥΣΙΚΗΣ ΙΣΤΟΡΙΑΣ** <http://www.gnhm.gr/>

**και and**

**ΠΡΟΣΩΠΙΚΕΣ ΕΠΙΚΟΙΝΩΝΕΙΕΣ PERSONAL COMMUNICATIONS**

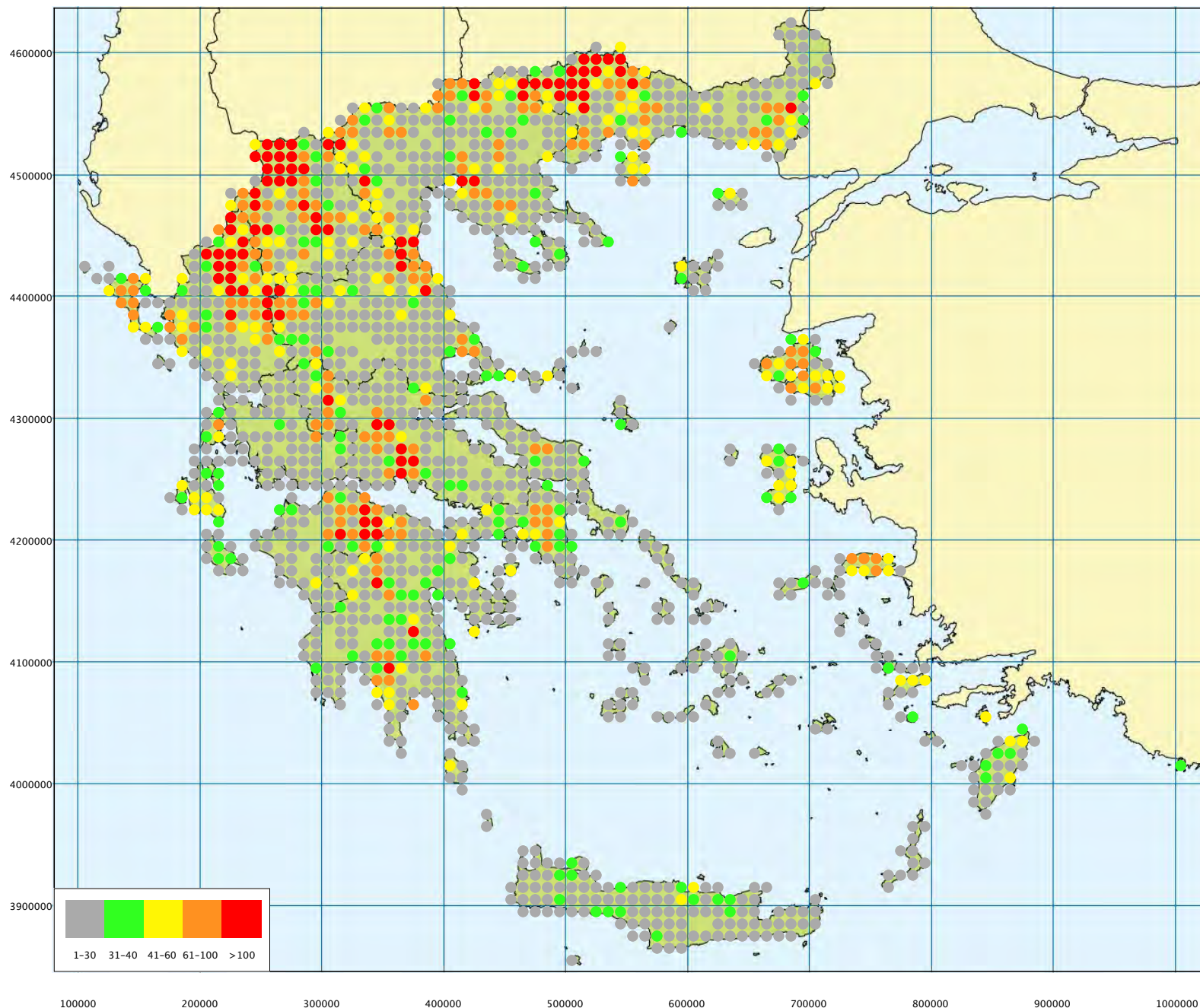
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JUTZELER DAVID  
KAPPES EVA  
KAPPES WULF  
KOLEV ZDRAVKO  
LAFRANCHIS TRISTAN  
M.LGAARD MORTEN S  
MAIER MARIO  
MAJER JINDRICH  
MANDZIEJEWICZ R.  
MANN JOHN  
MASON STEPHEN A  
MAUNDER MIKE  
MAZZEI PAOLO  
MEREDITH GUY  
MURPHEY CHRIS  
NABBE MARINA  
NORBERT ULMAN  
OISTEIN BERG  
PALMI PAOLO  
PEACE NIGEL  
PERKINS ROGER  
PETTERSSON LARS  
PLOWMAN FRANCIS

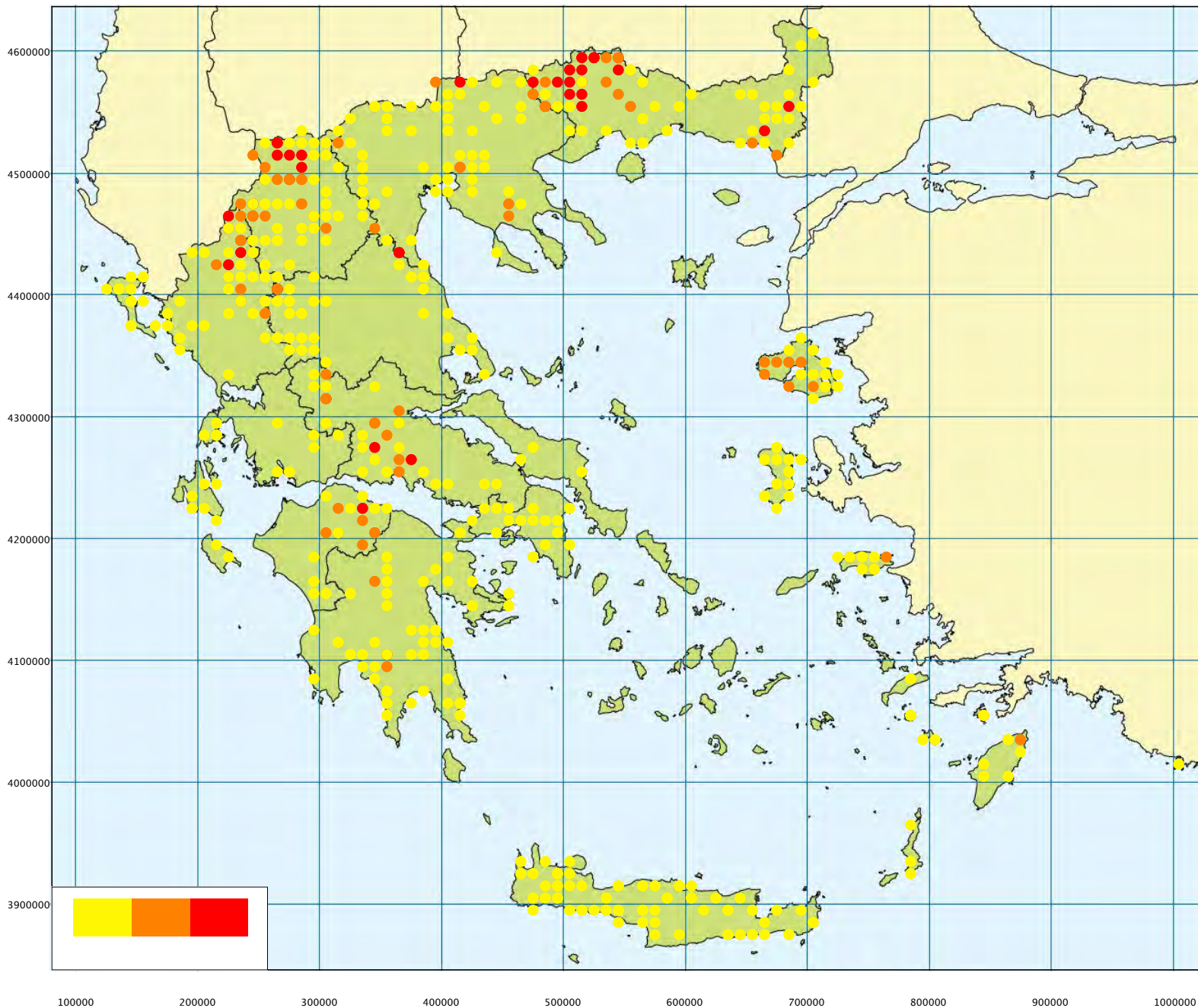
PLOWMAN DAVE  
POOT ROB  
PRENTICE MIKE  
PRINGLE GORDON  
RAMEL GORDON  
RAVIGLIONE MARIO  
REYNOLDS W.J  
RODGERS PETER  
ROWLINGS MATTHEW  
RUSSELL PETER  
RUTHERFORD JAN  
SALMON JOHN  
SAVAGE LYNDON  
SCARLAU ASTRID  
SCHAIDER PAUL  
SELBY PAUL  
SIOUX LEFTY  
SMETHURST MIKE  
SPENCER SIMON  
SPEYBROEK JEROEN  
SPILLER JOY  
SPRUYTTE STEF  
STANDRING KEVIN  
STANLEY G. A.  
STEUR JOEP  
STUBGAARD JORGEN  
SUTTON PETER  
SVELKUTIS MICK  
SZEKELY LEVENTE  
TAYLOR MIKE  
THOMPSON NEIL  
THOMSON G.  
THORSEN NIELS  
TOLMAN TOM  
TOWNSEND DENIS  
TSHIKOLOVETS VADIM  
ULMAN NORBERT  
van DOG JOHANNES  
van HANS OOSTERHOUT  
van SWAAY CHRIS  
VEROVNIK RUDI  
VLIEGENTHART ALBERT  
WAGENER SIGBERT P.  
WATTS BERNARD  
WICKMAN PER-OLOF  
WIRTH ALEXANDER  
WRIGHT DAVE  
WYNNE IAN R  
ZIEGLER HEINER



**New Chart 4.15'**  
 (update 2022 version in GGRS87)  
 Total number of species for all 1607  
 localities 10X10 km

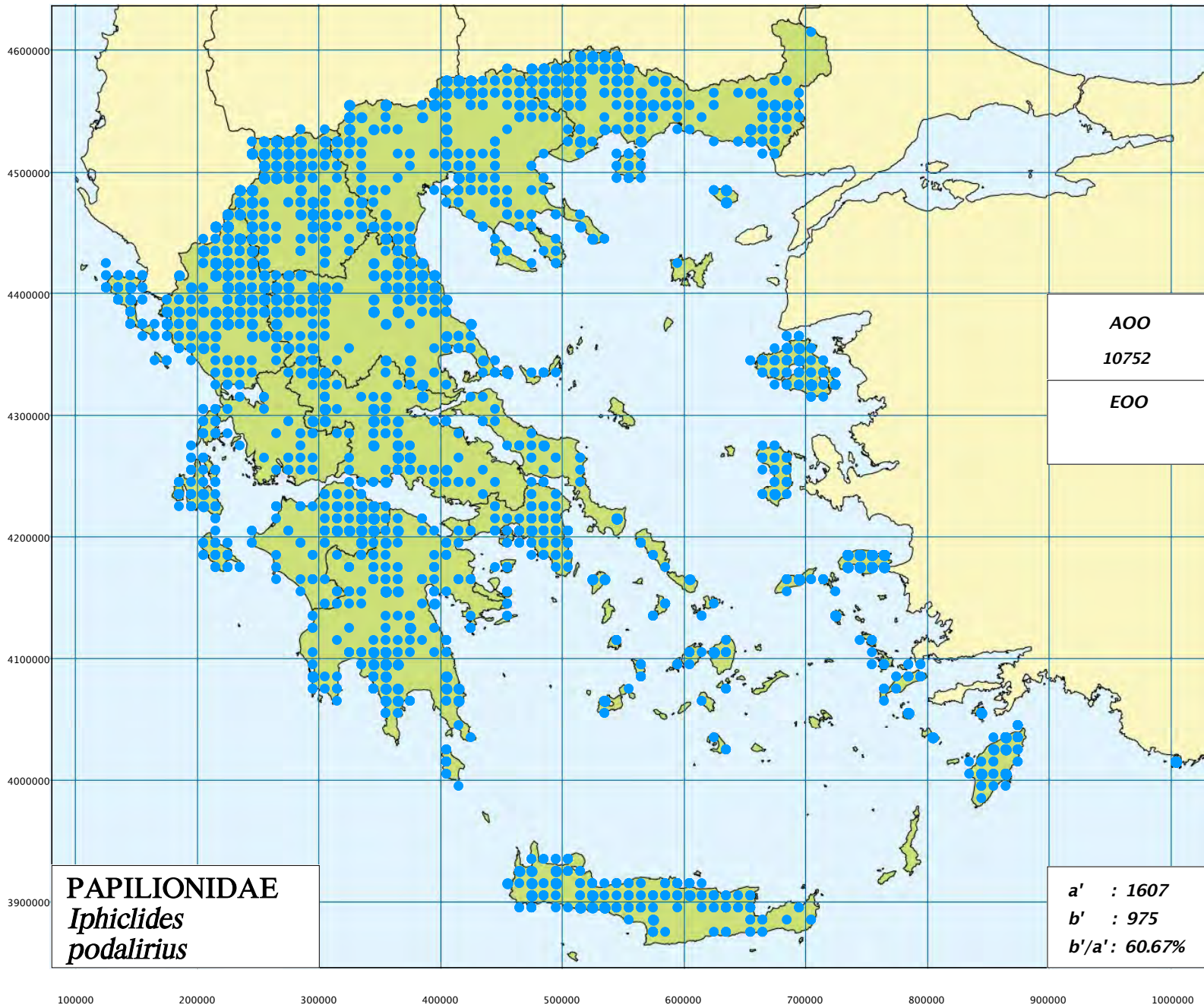
**Νέος Χάρτης 4.15'**  
 (επικαιροποίηση 2022 με  
 συντεταγμένες GGRS87) Συνολικός  
 αριθμός των ειδών για όλες τις  
 1607 τοποθεσίες 10X10 km



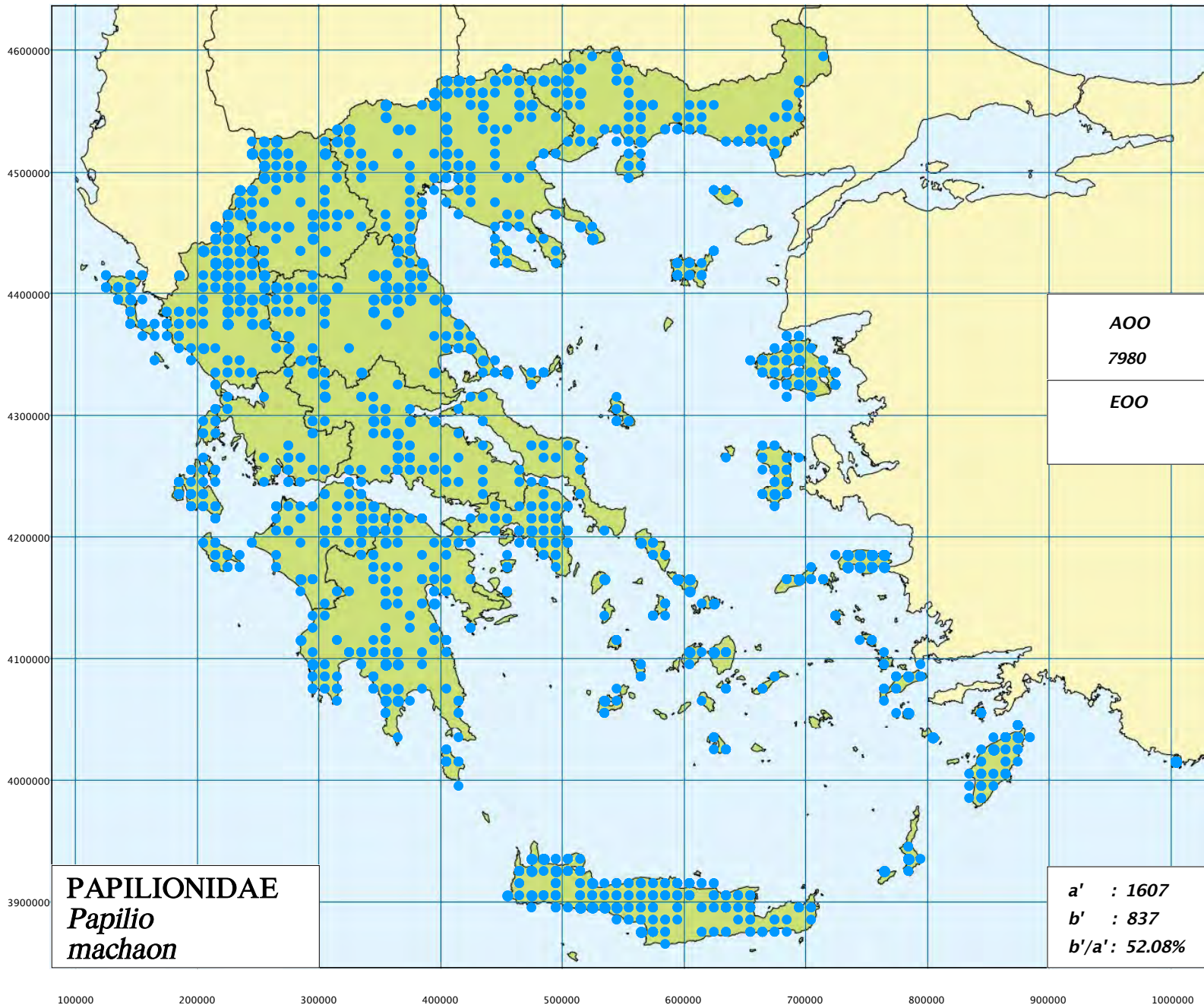


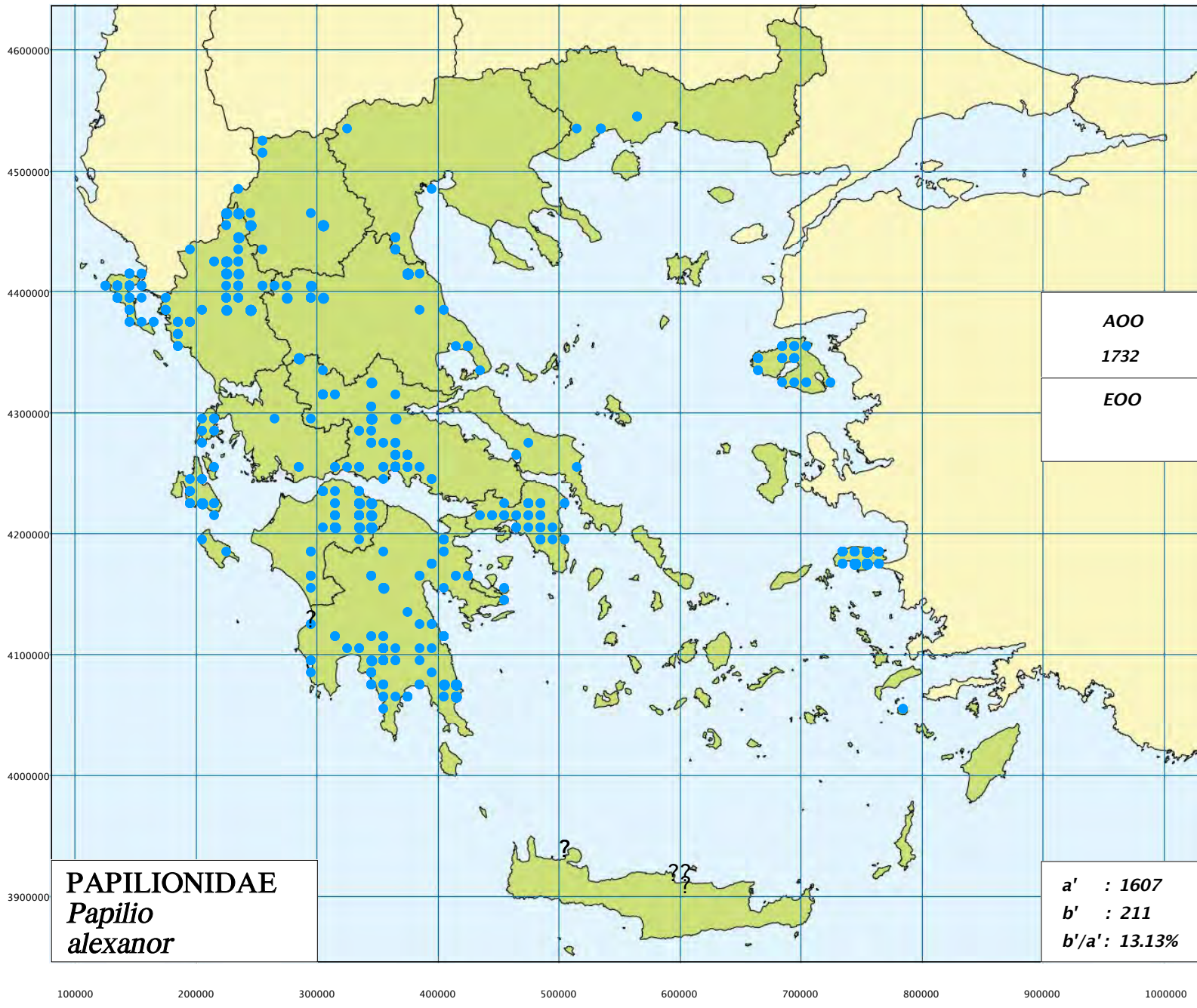
**New Chart 4.16'**  
 (update 2022 version in GGRS87)  
 Important butterfly areas in  
 Greece

**Νέος Χάρτης 4.16'**  
 (επικαιροποίηση 2022 με  
 συντεταγμένες GGRS87)  
 Σημαντικές περιοχές για τις  
 πεταλούδες της Ελλάδας

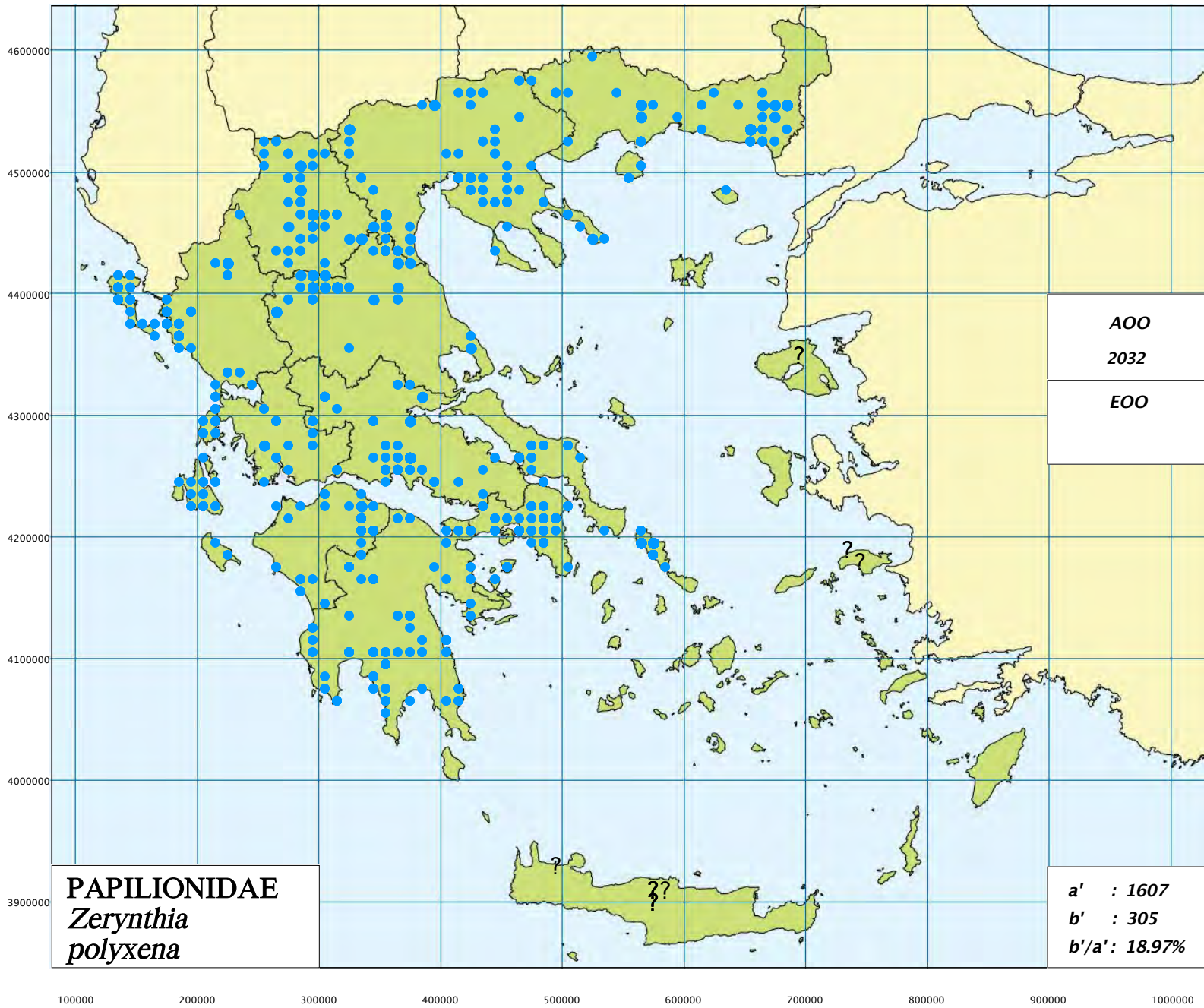


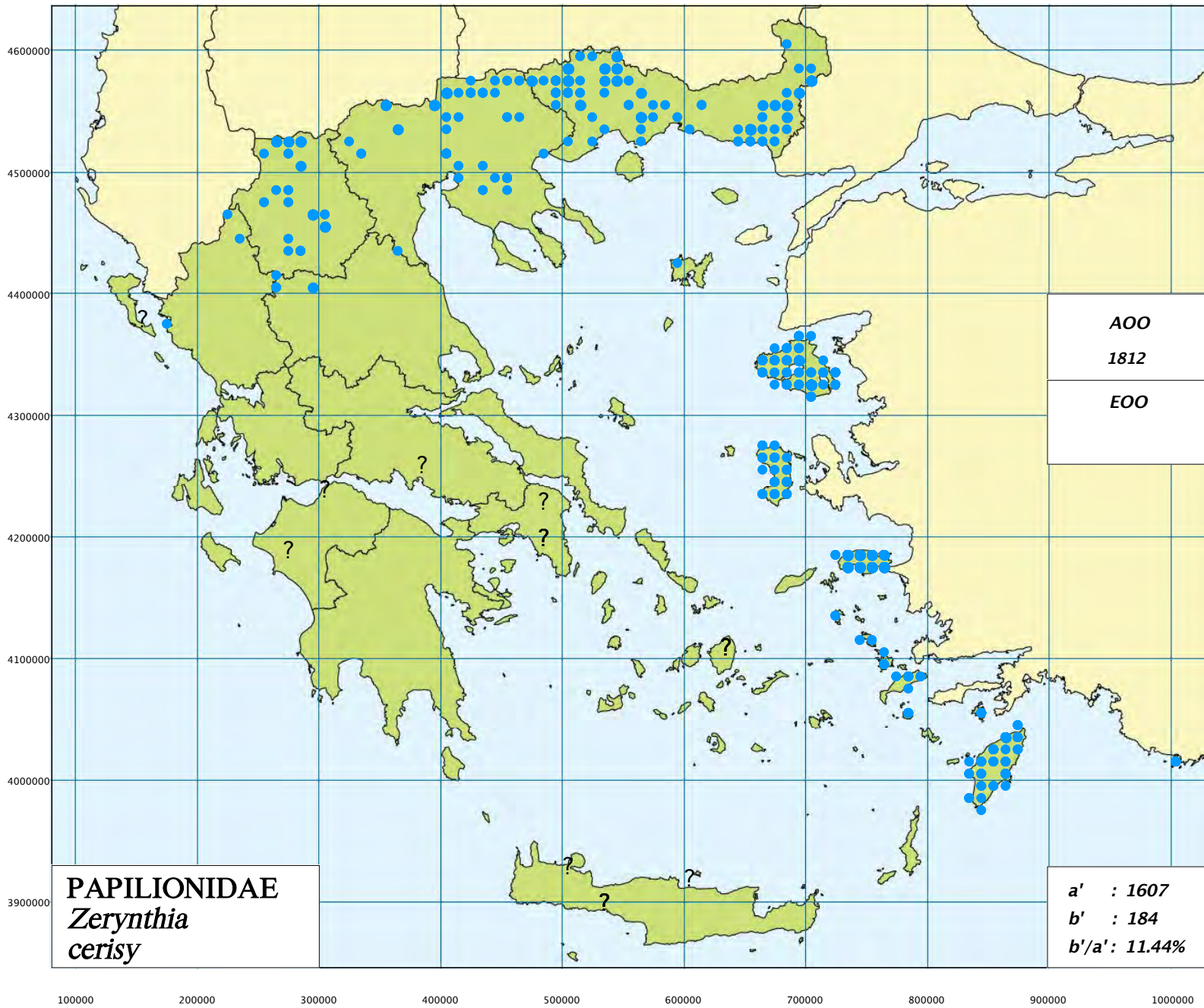






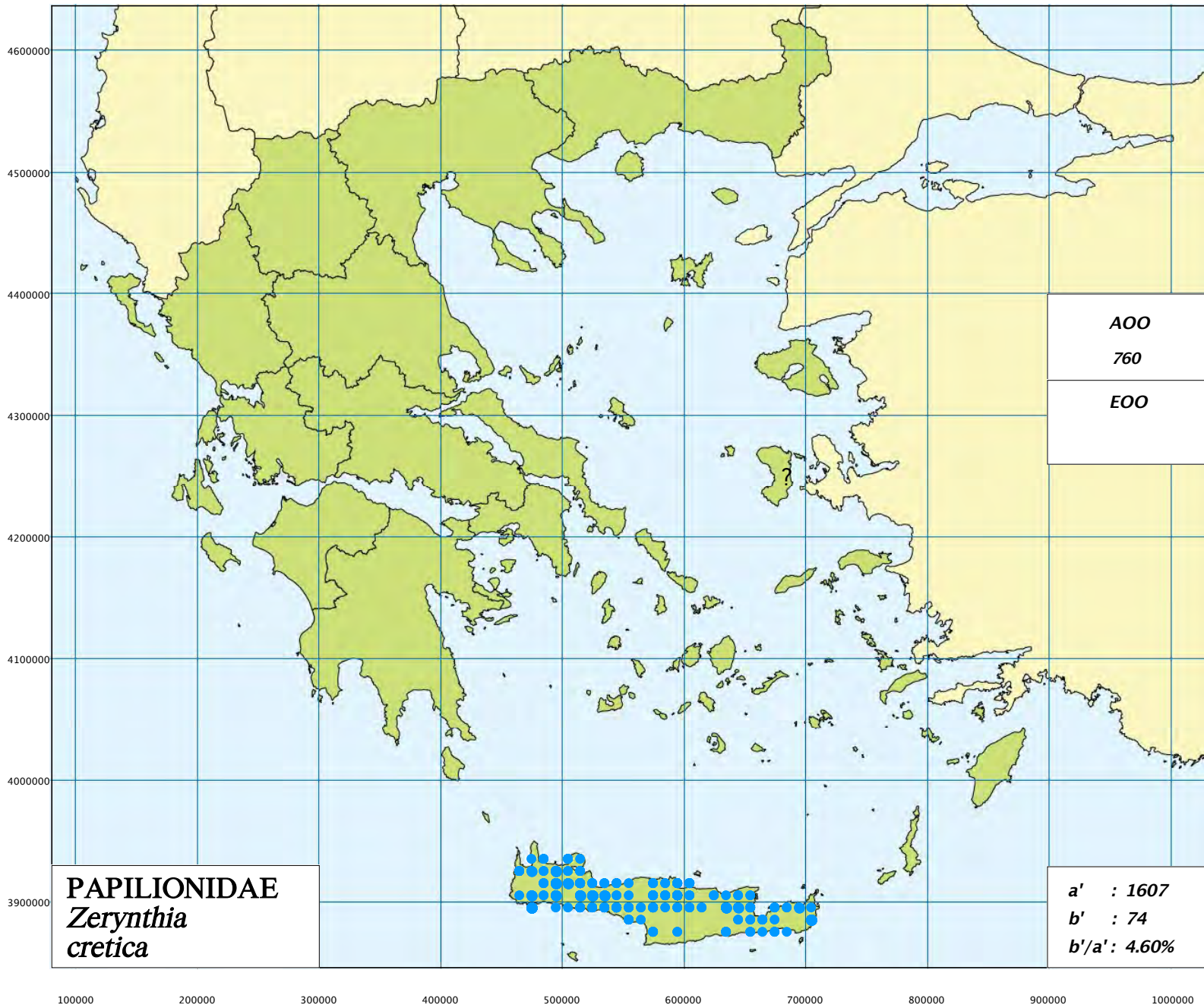


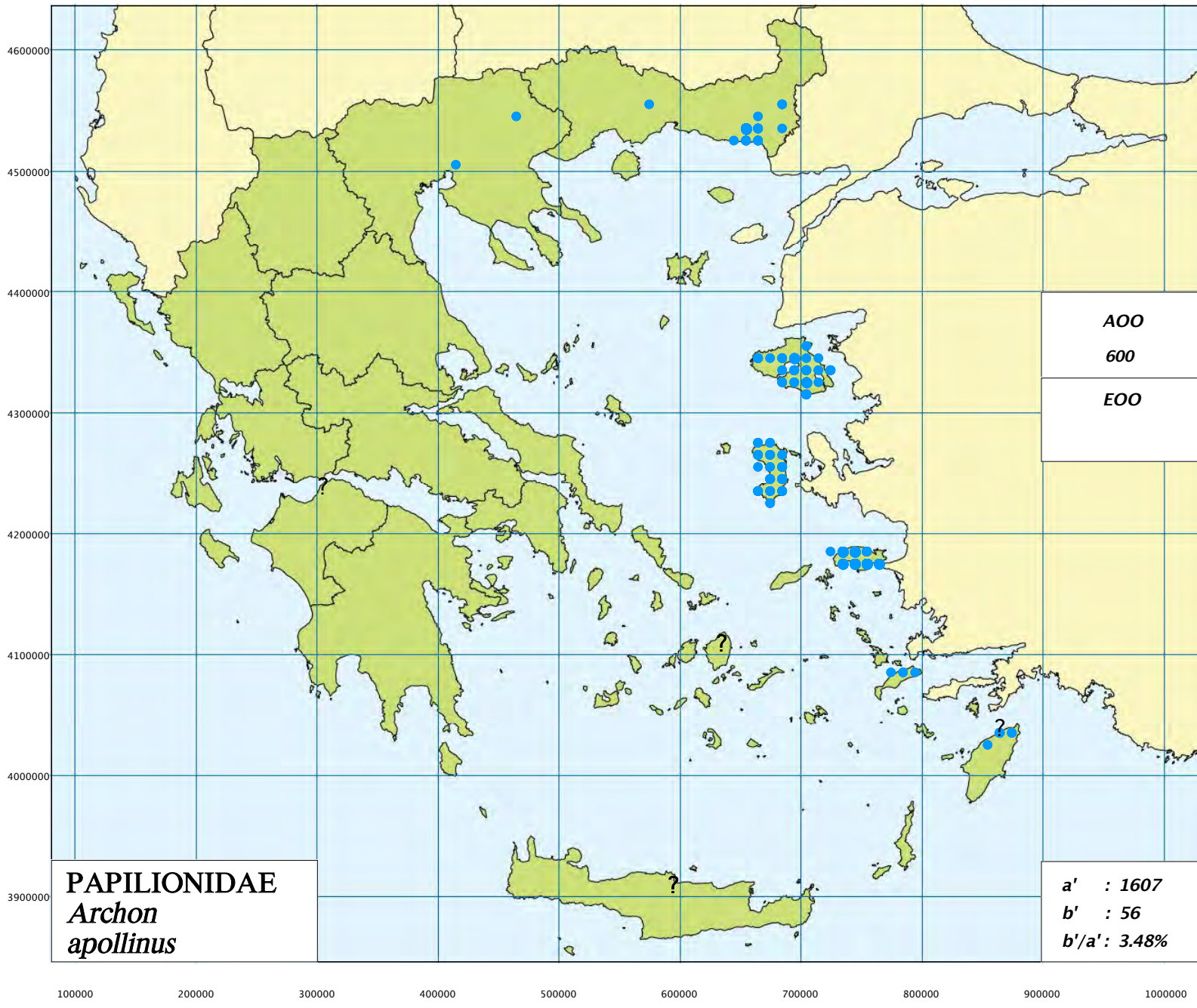




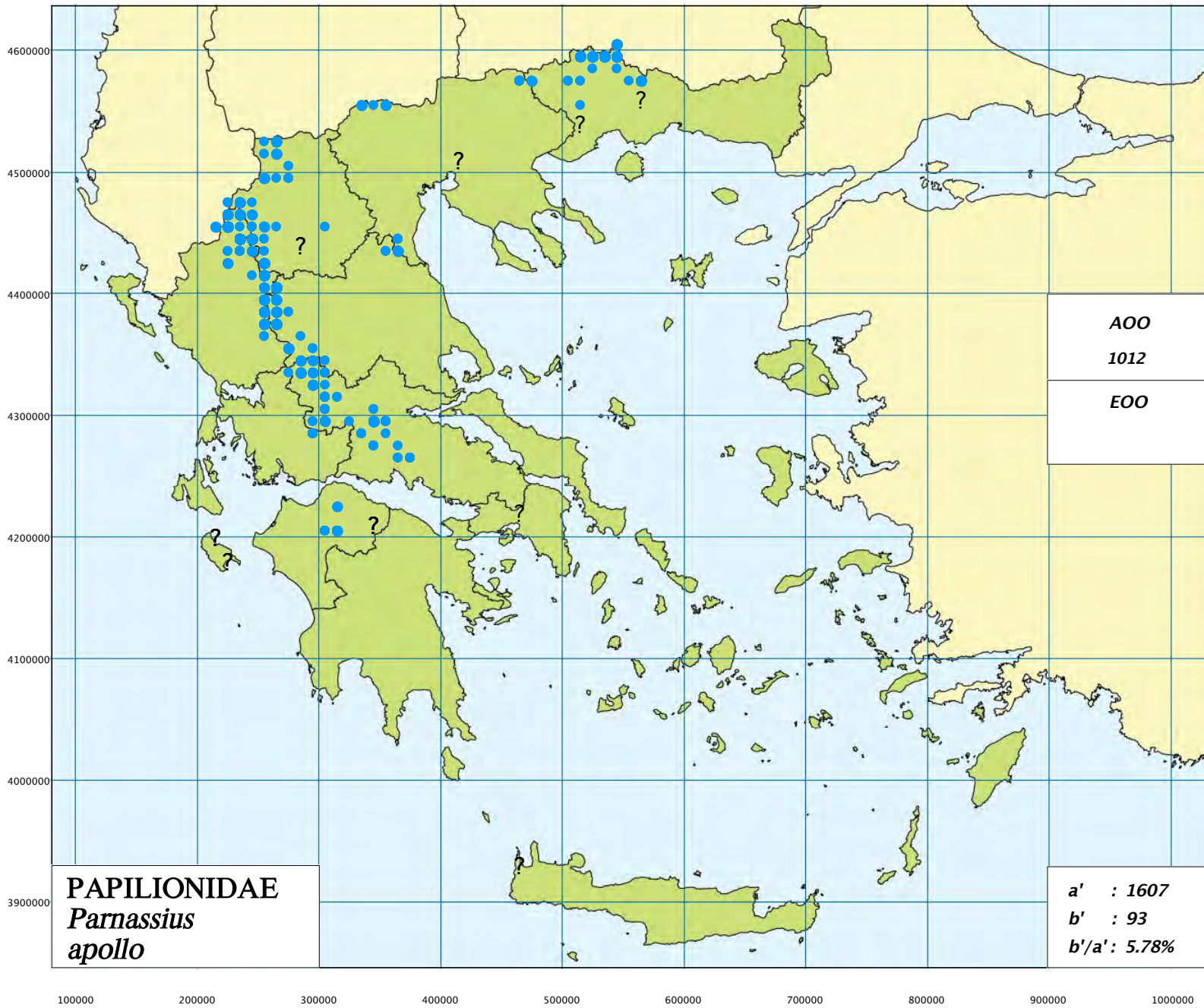


**ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE**

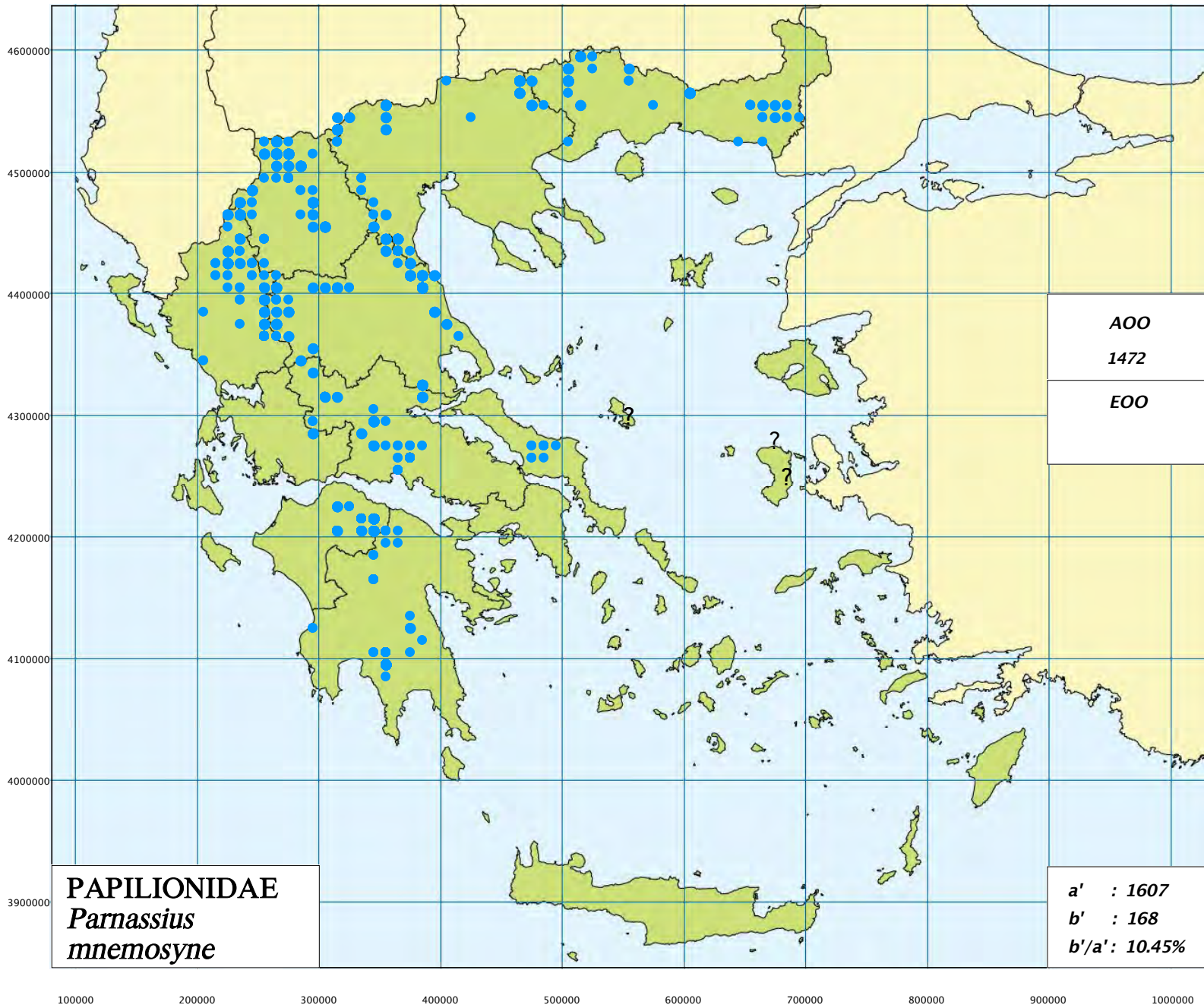


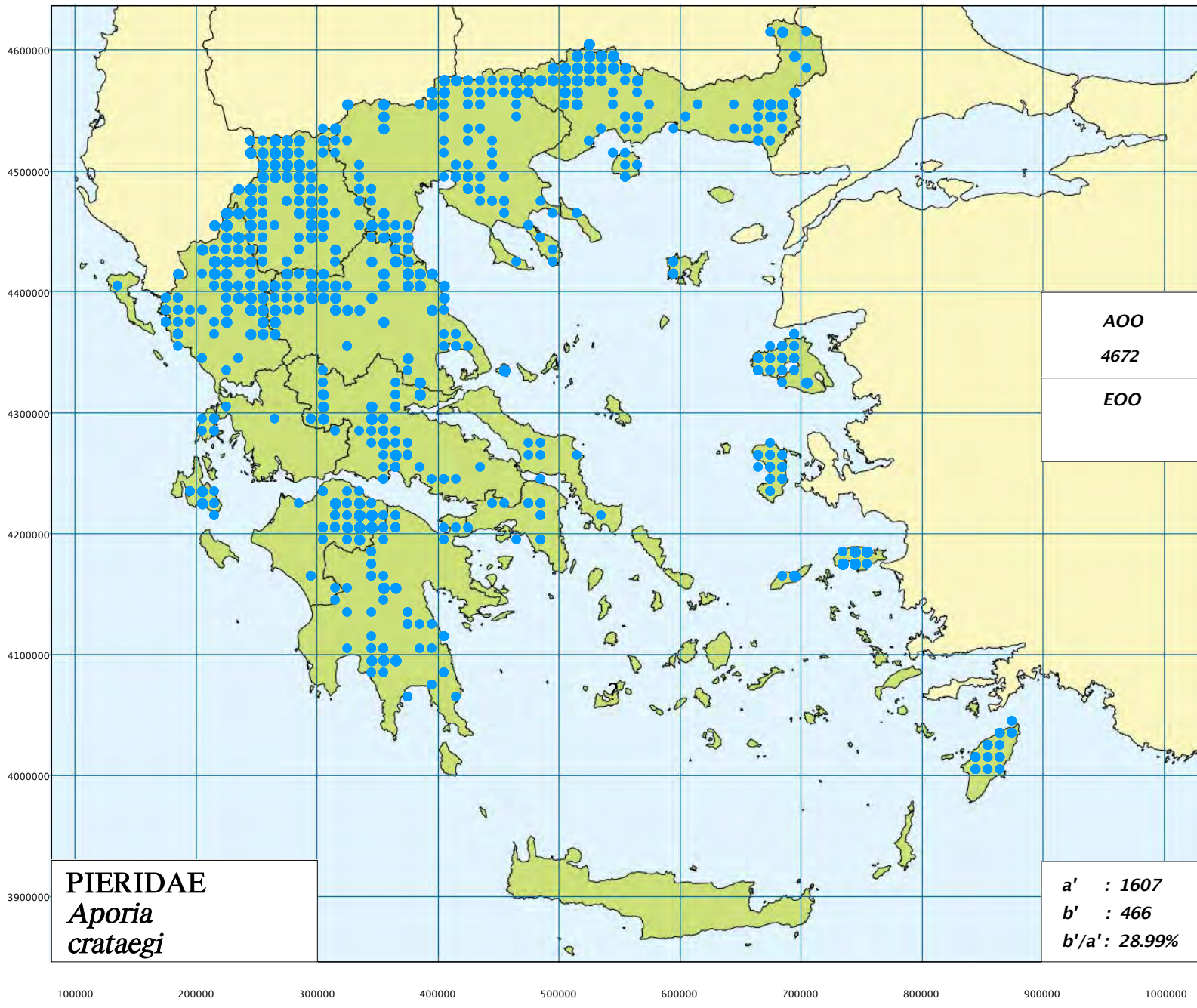




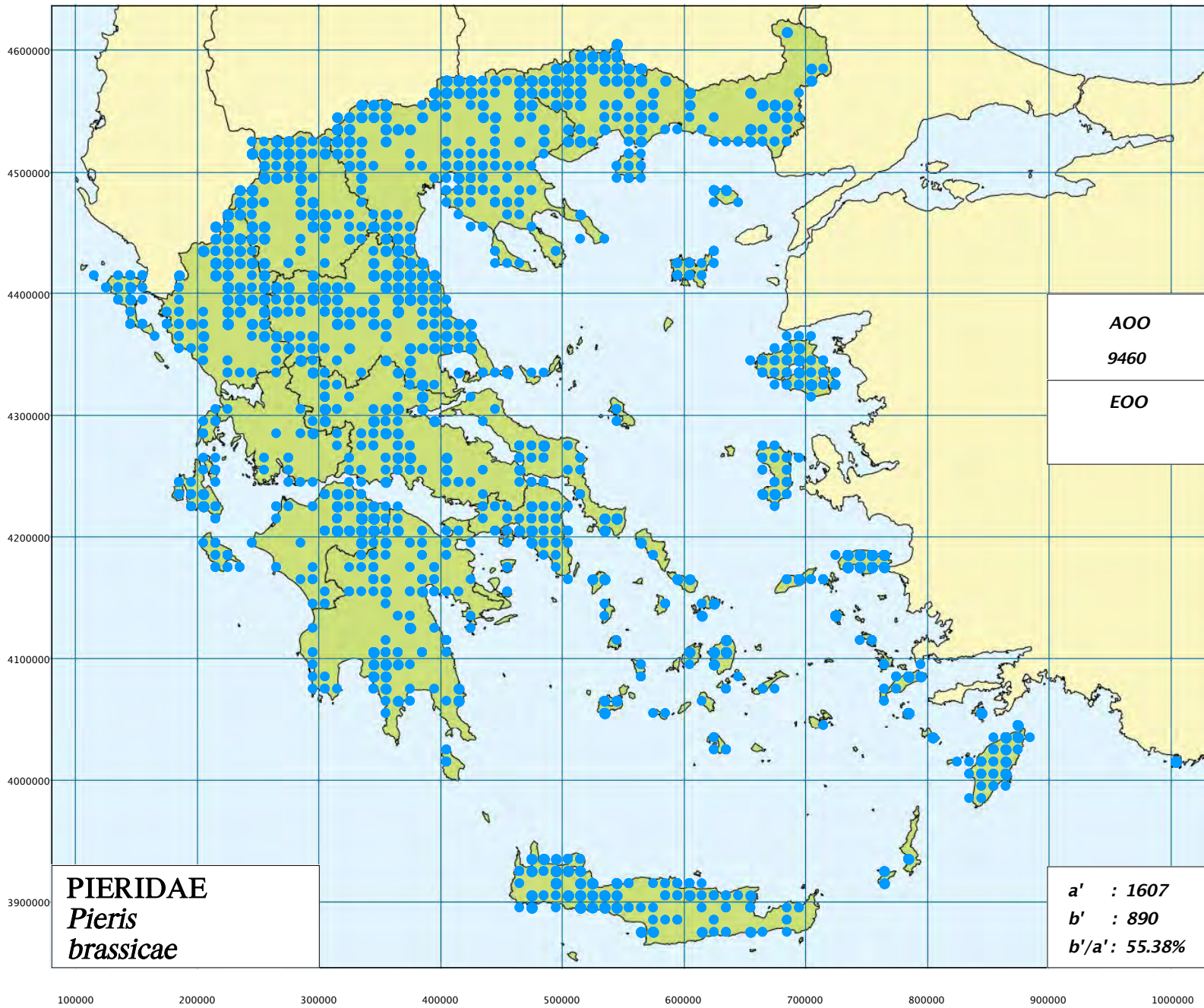


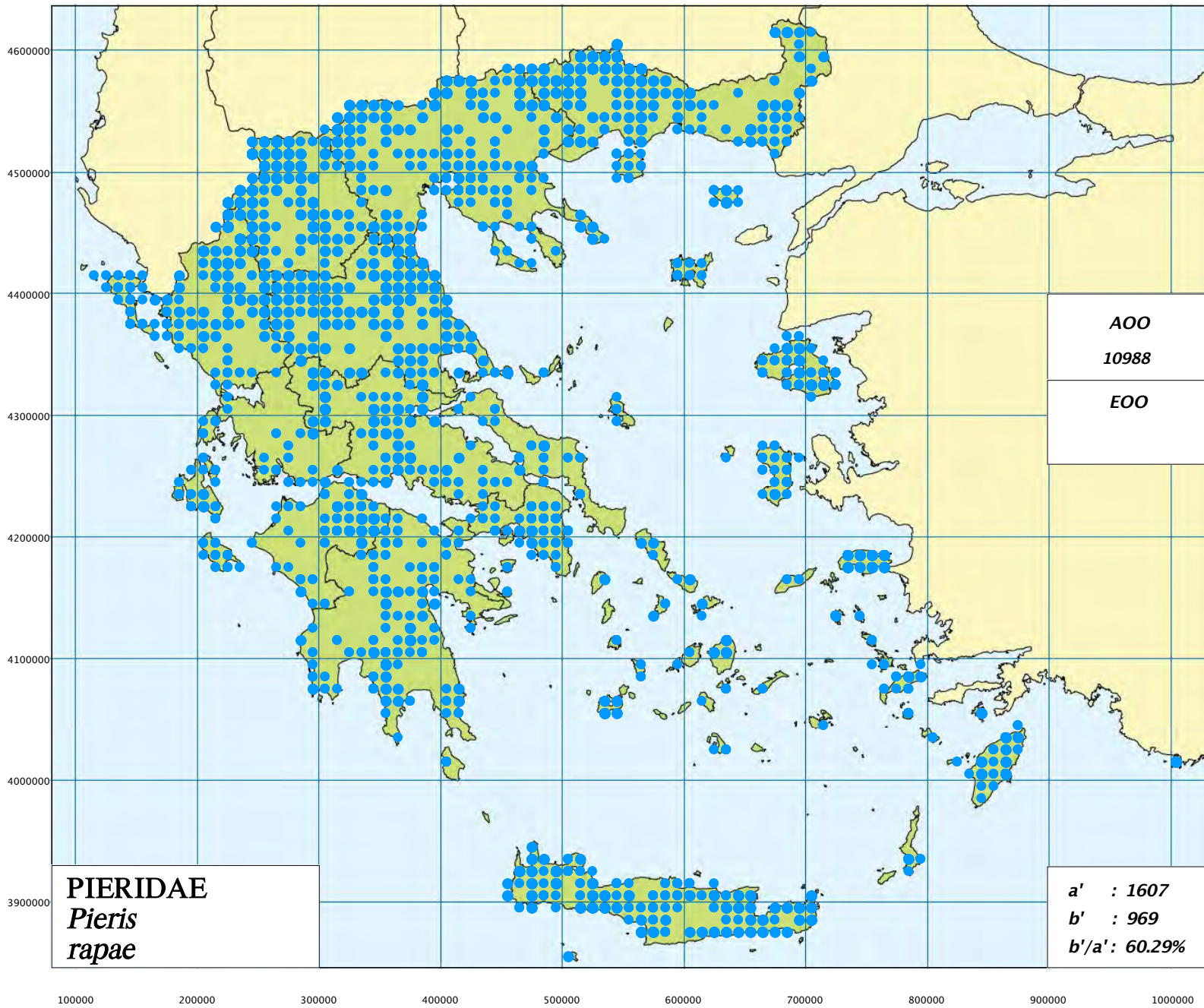




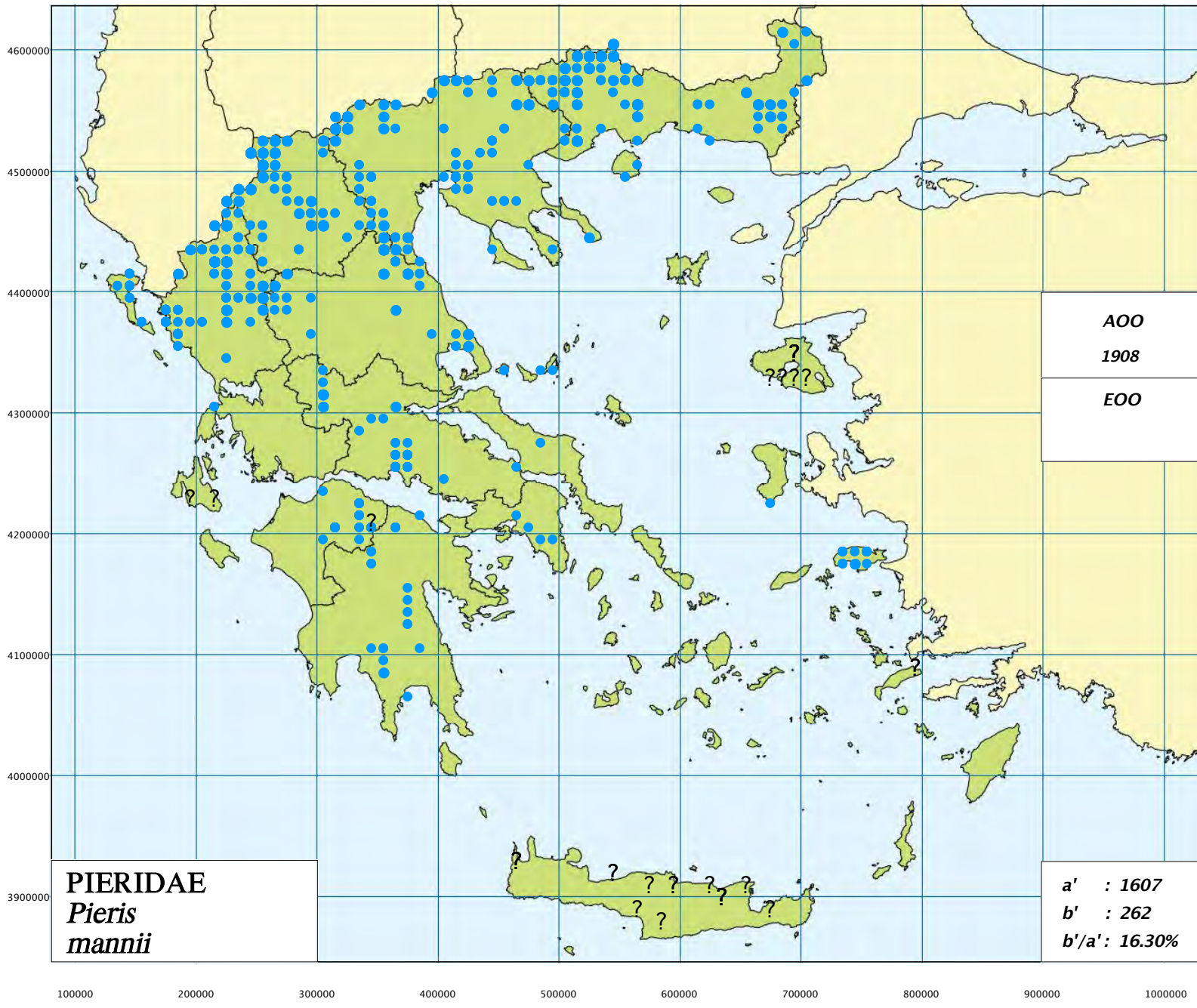


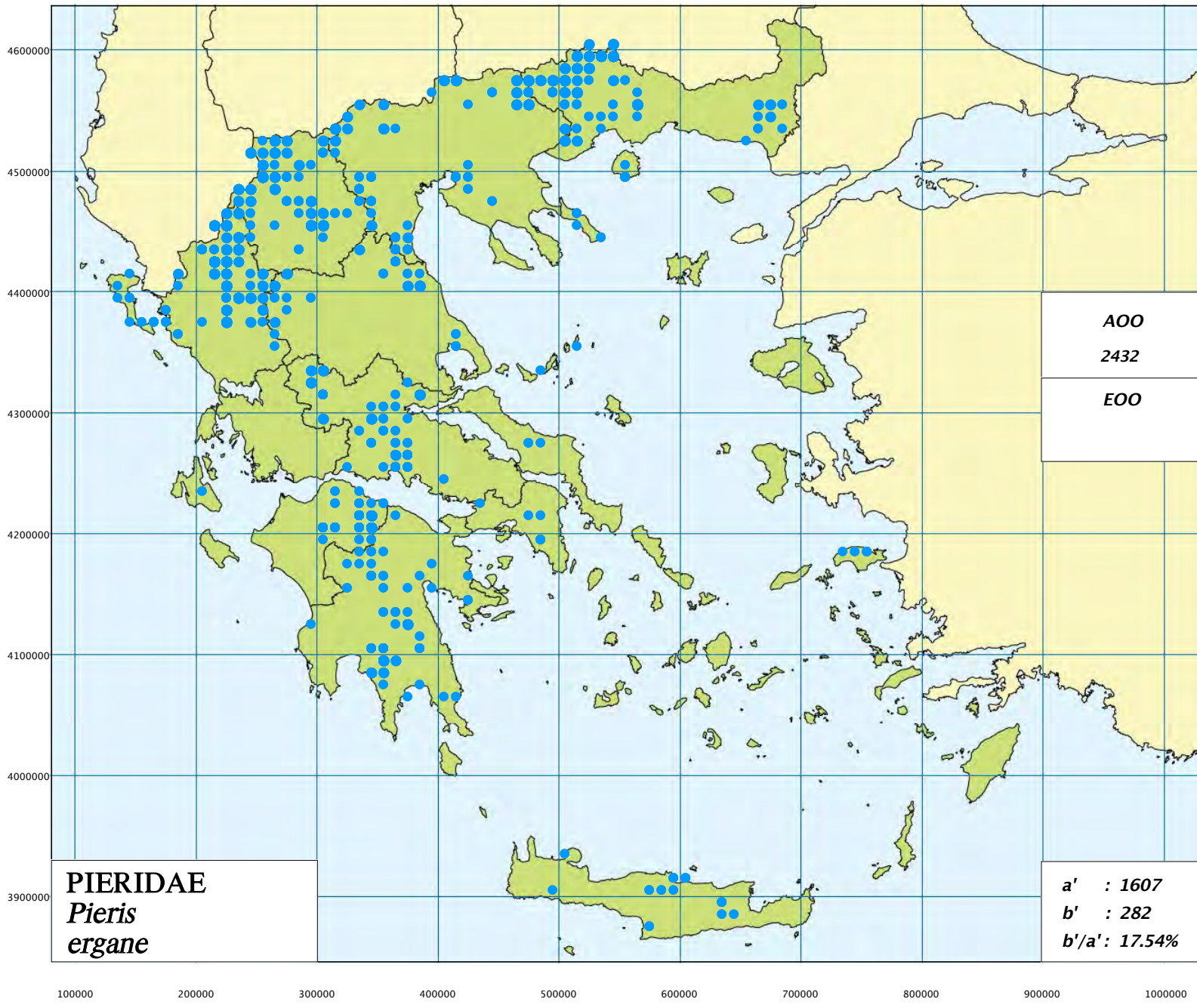






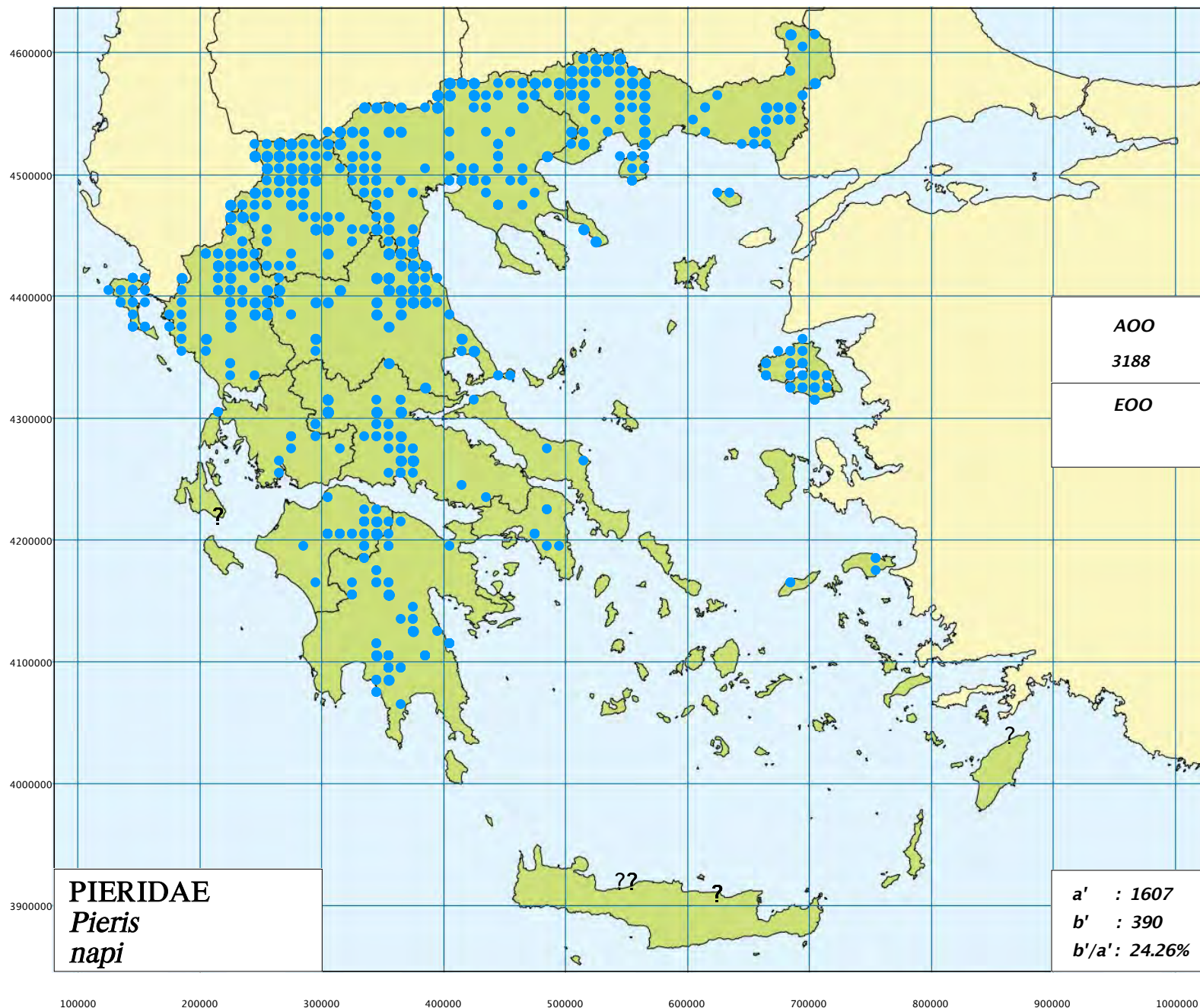








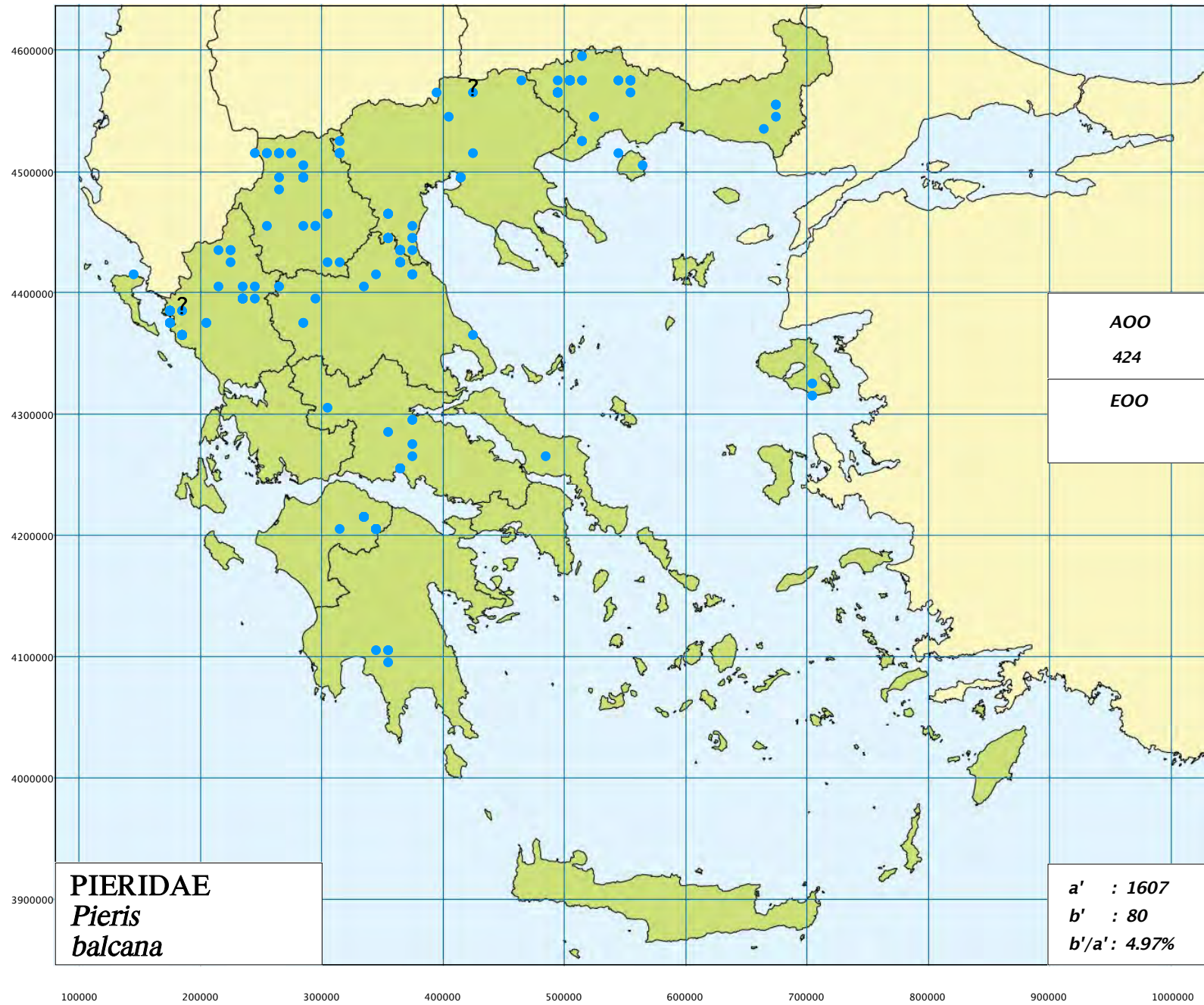
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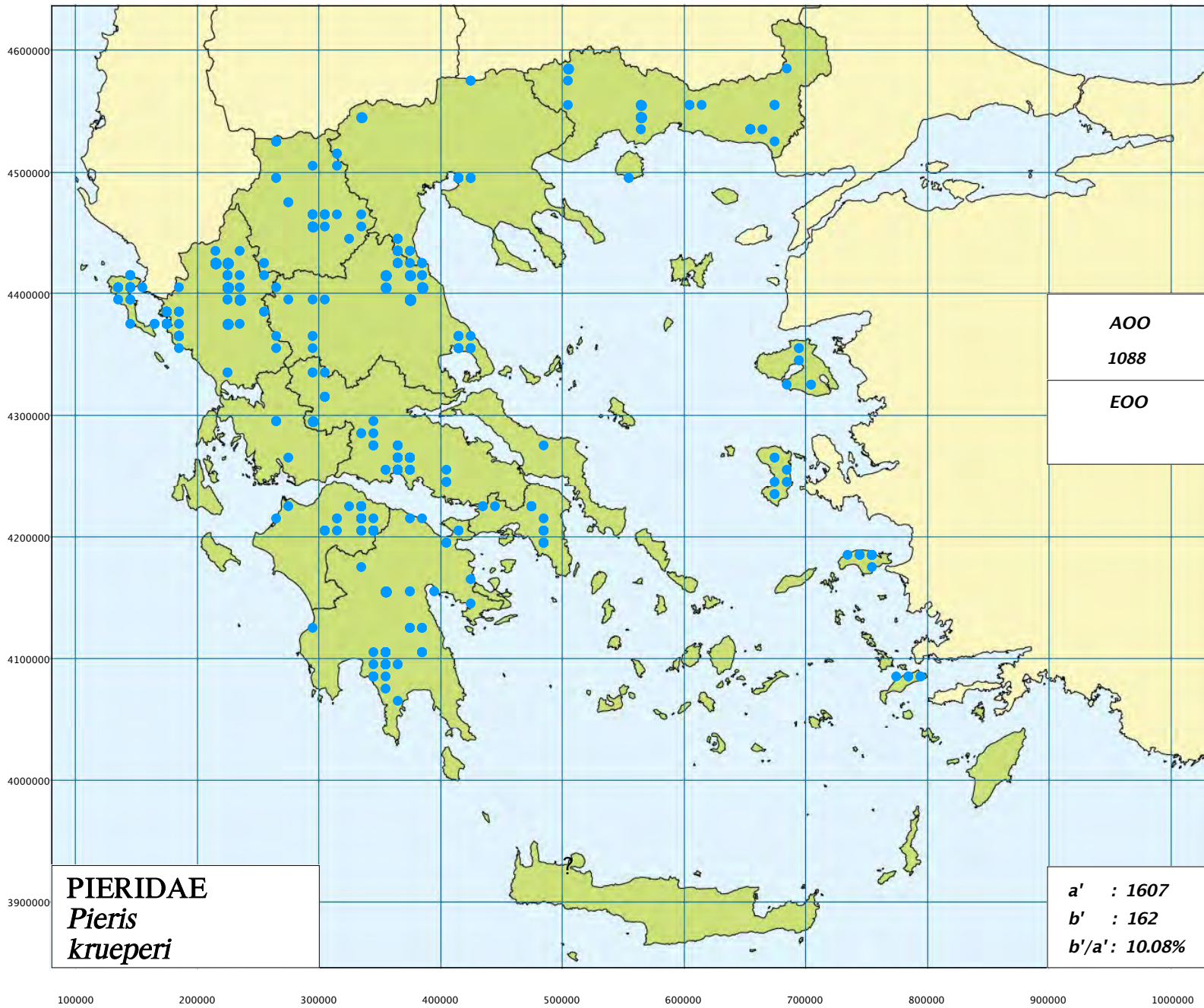


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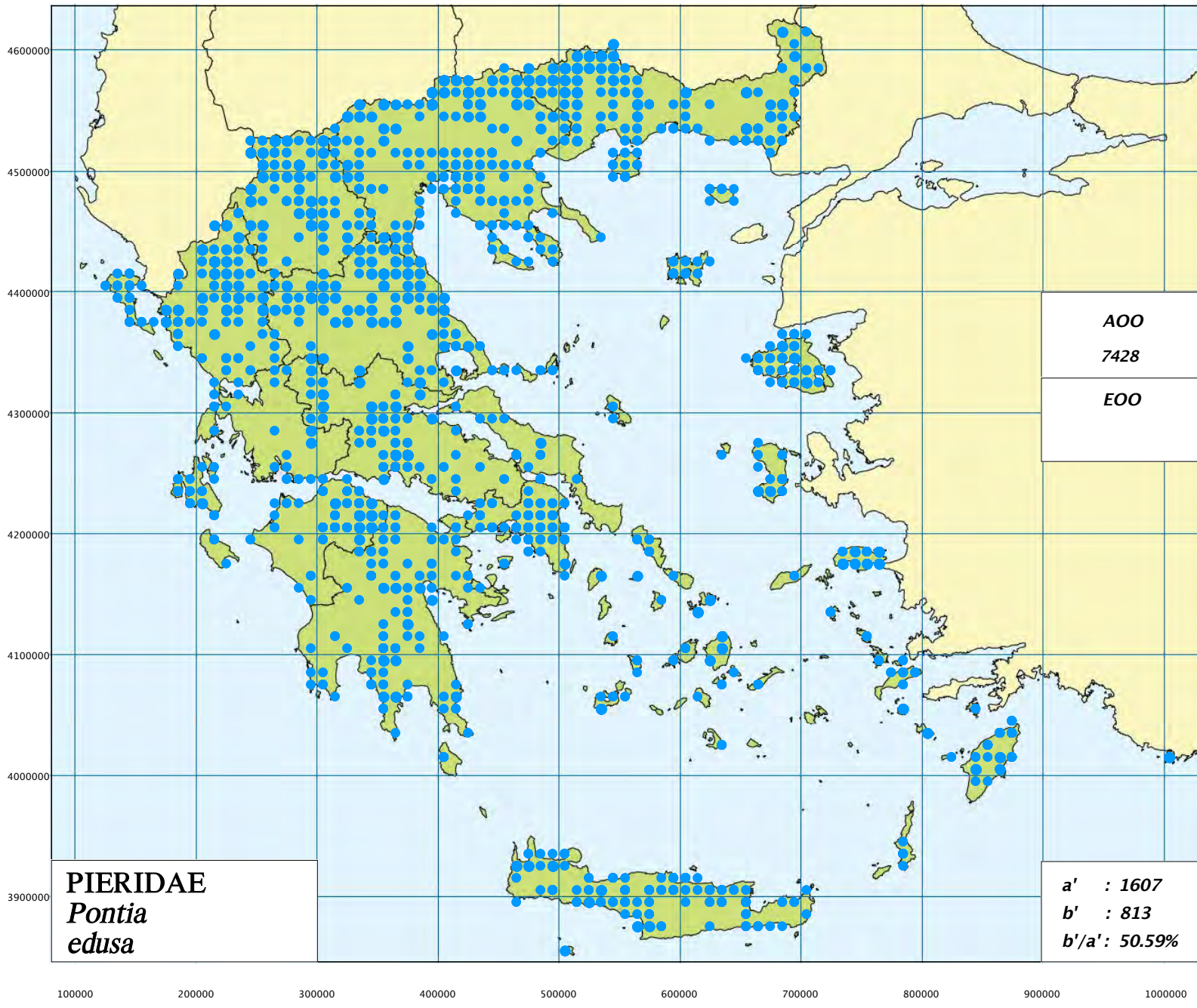


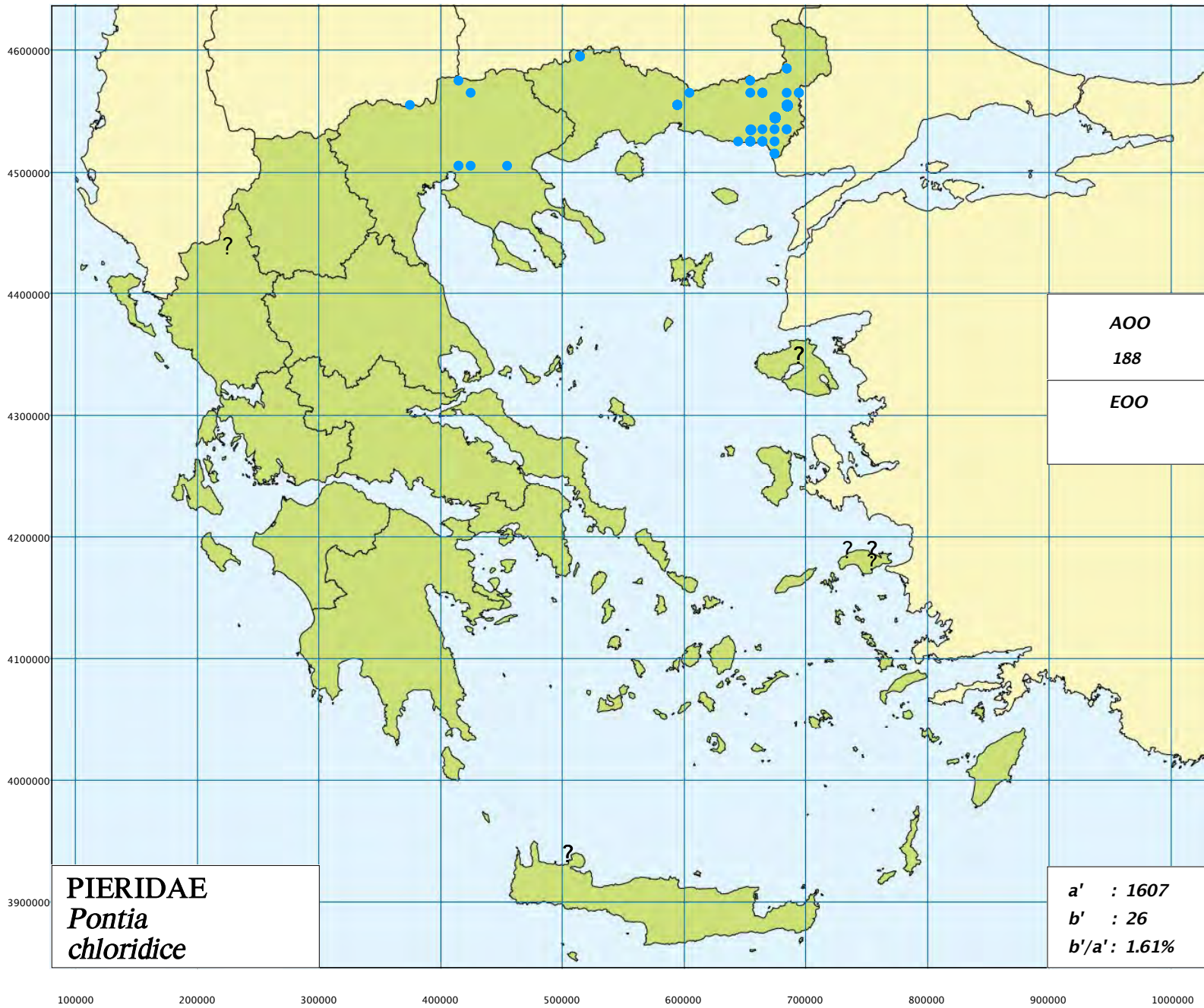
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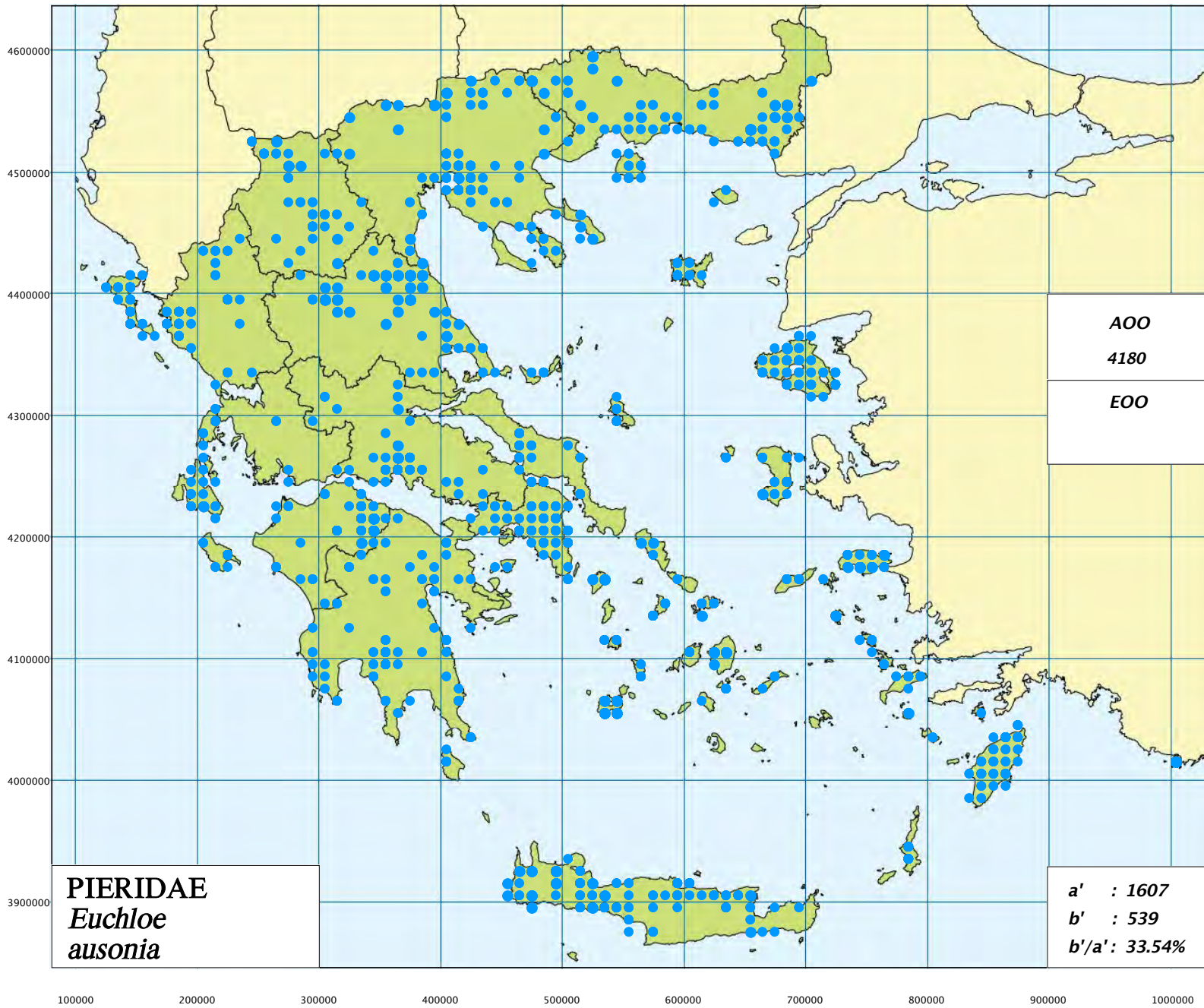






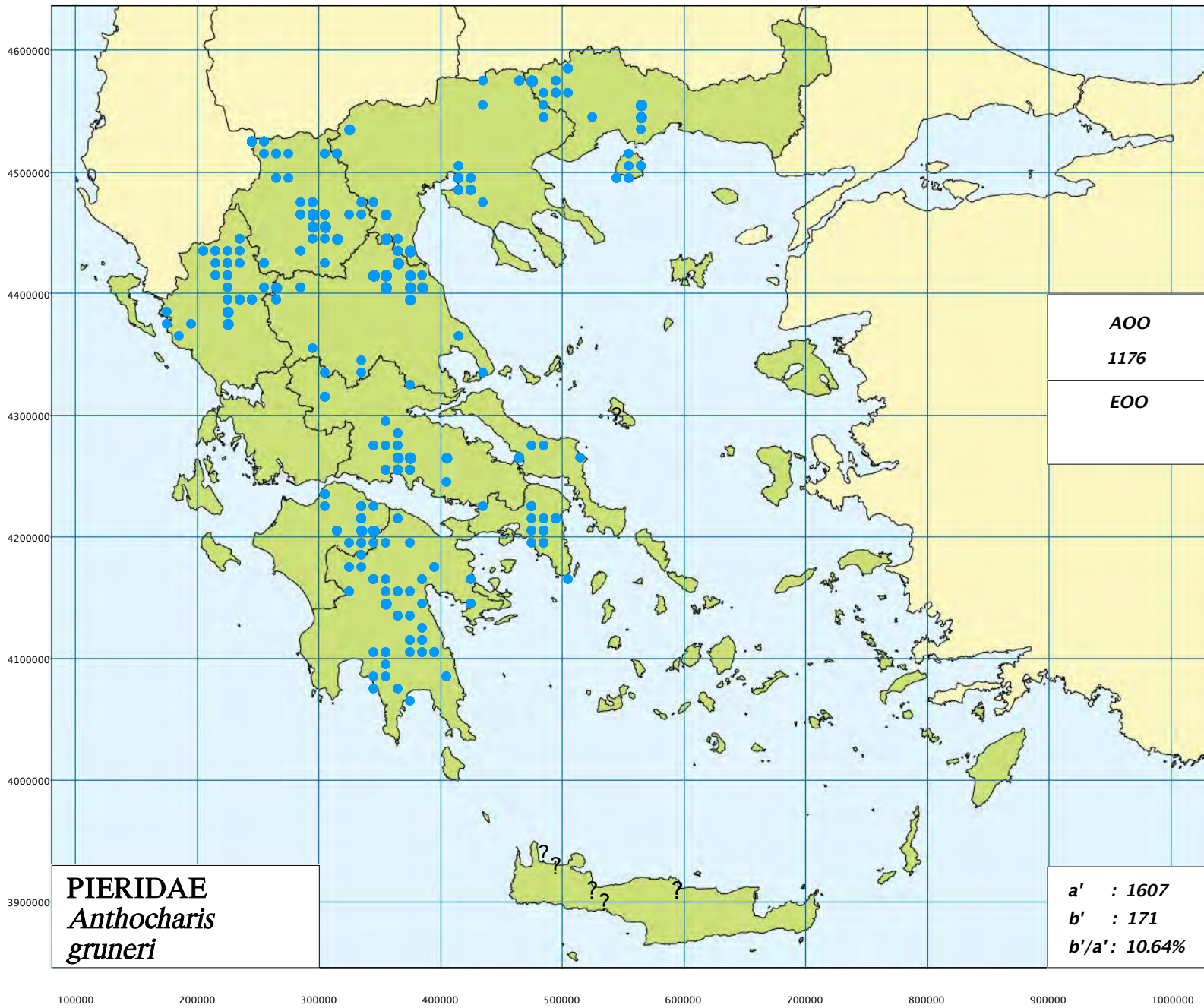




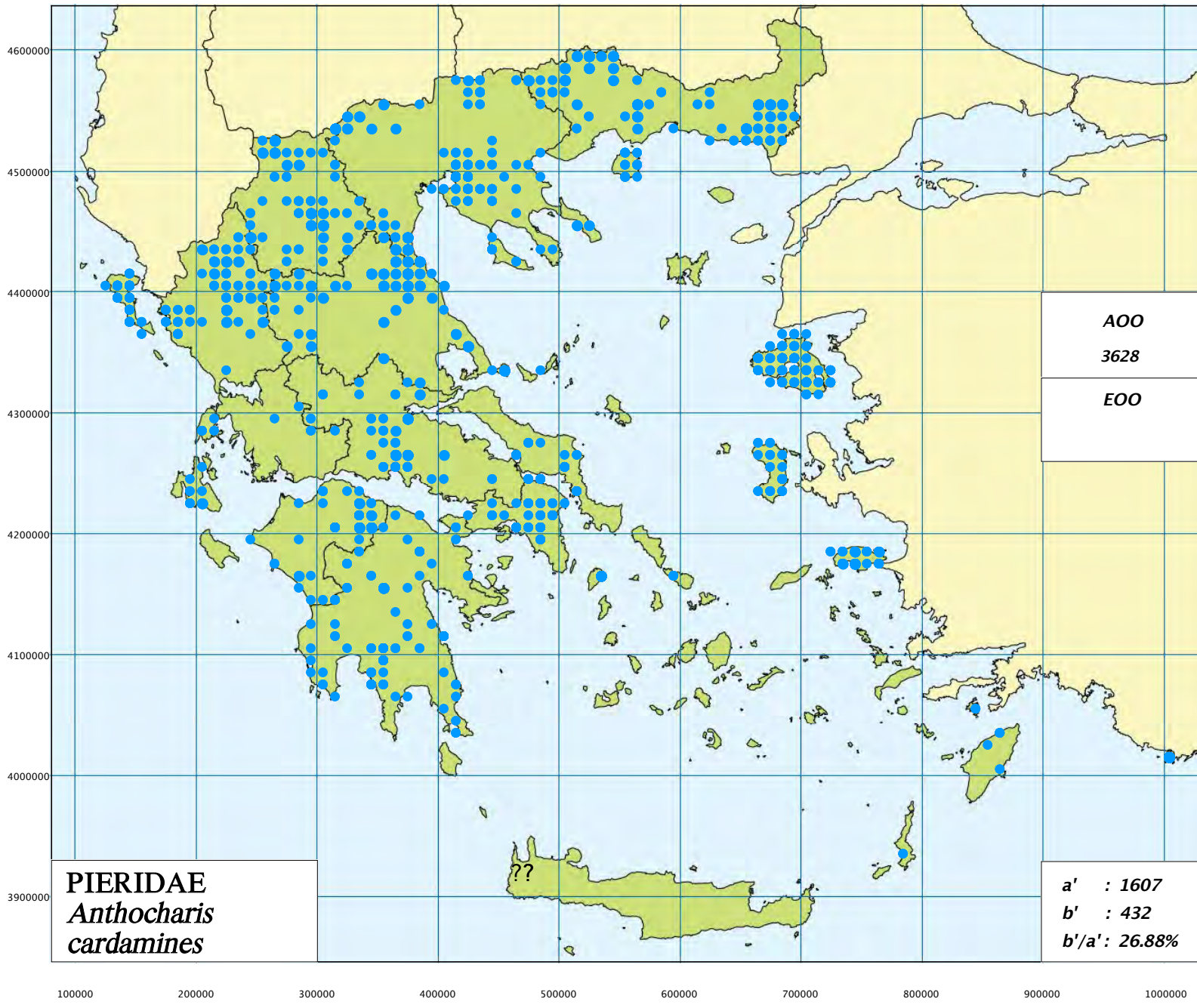


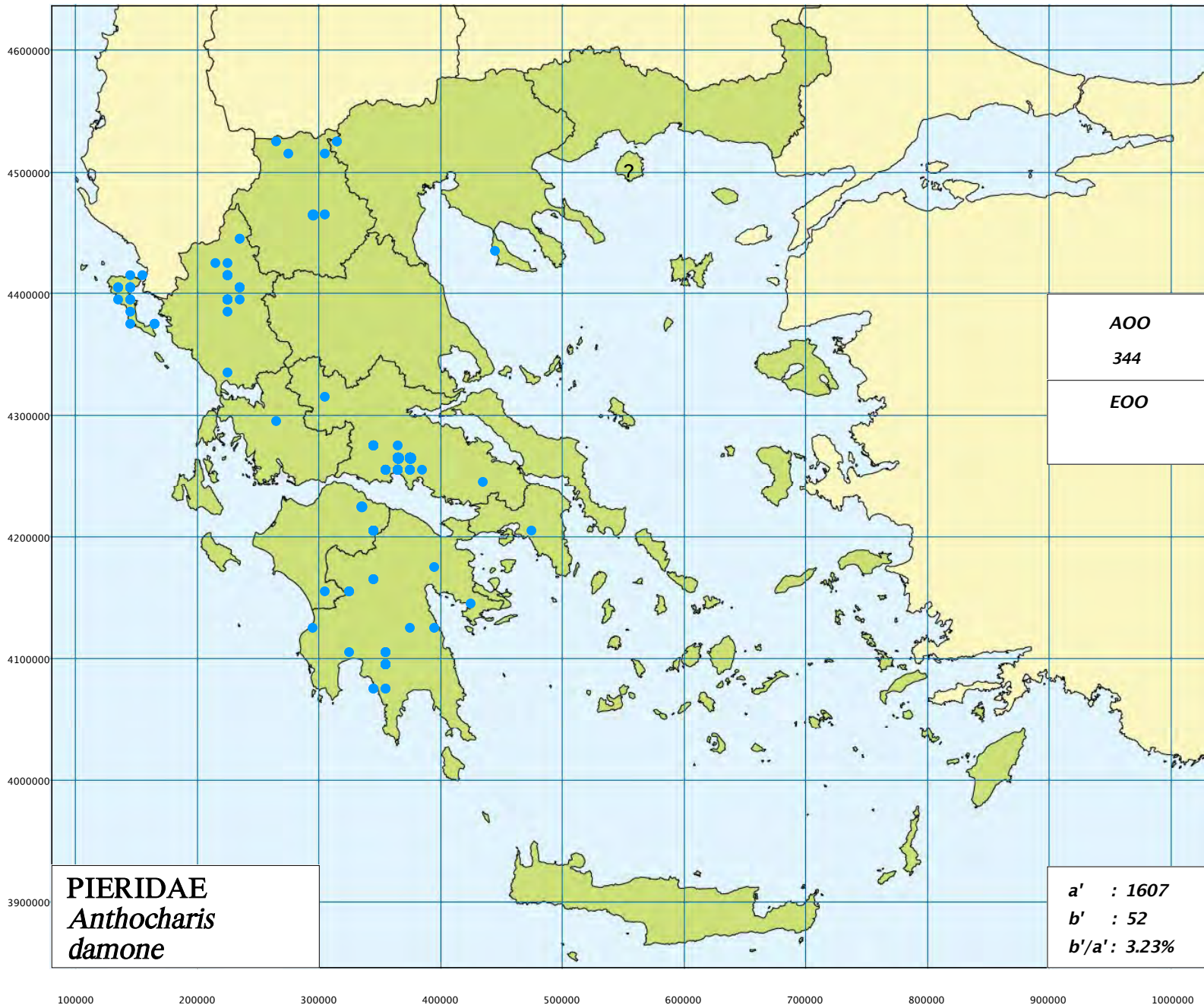




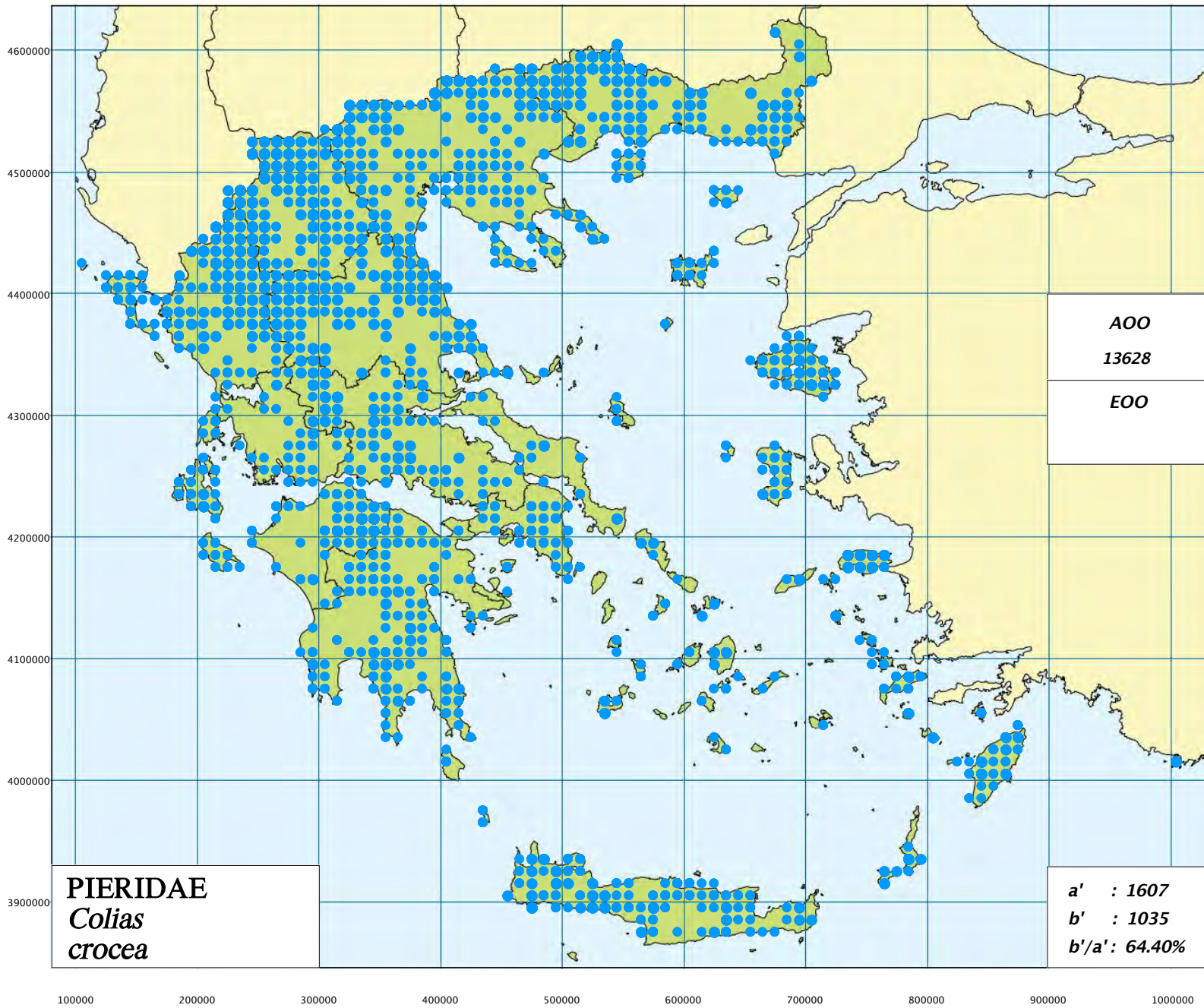






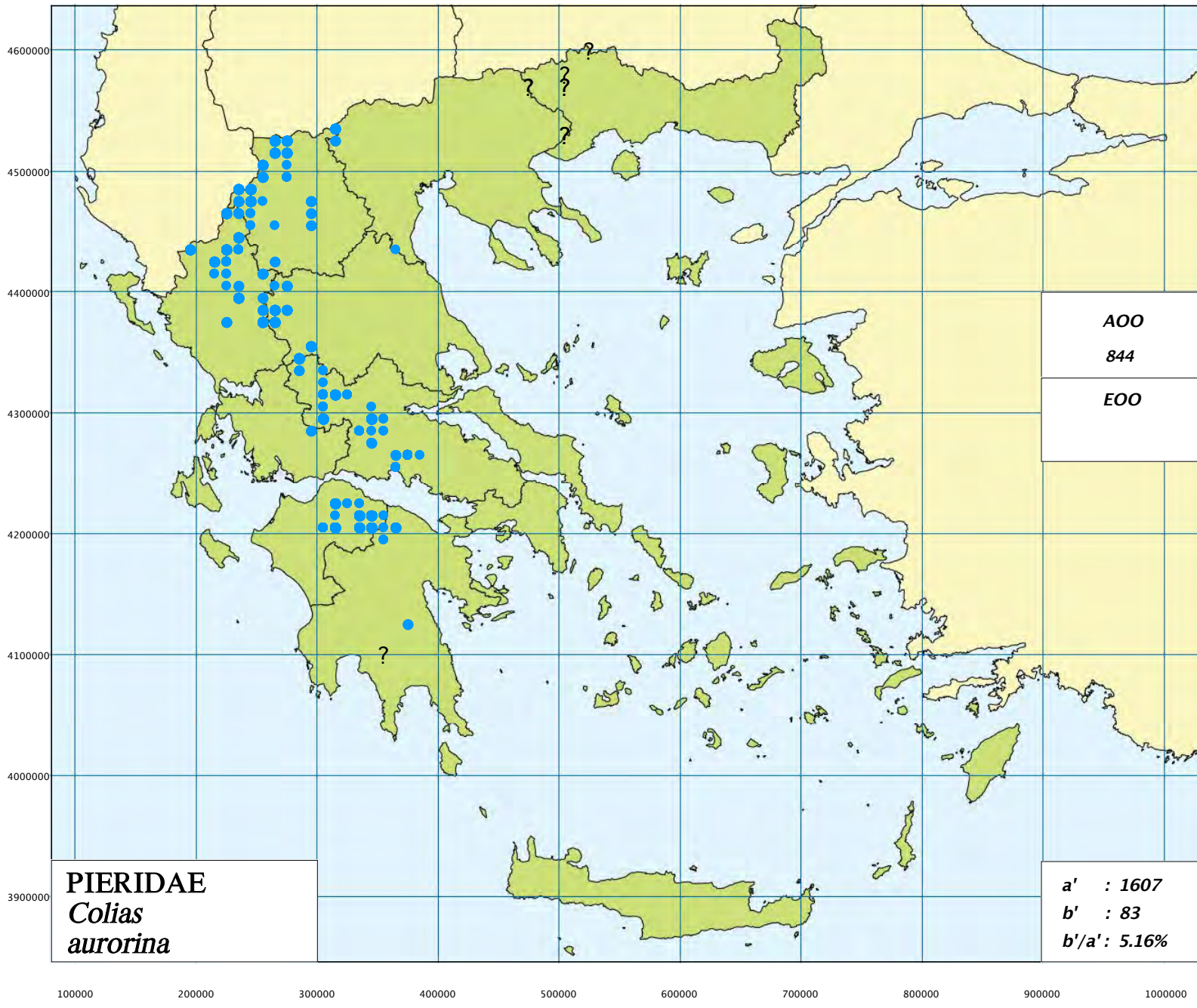


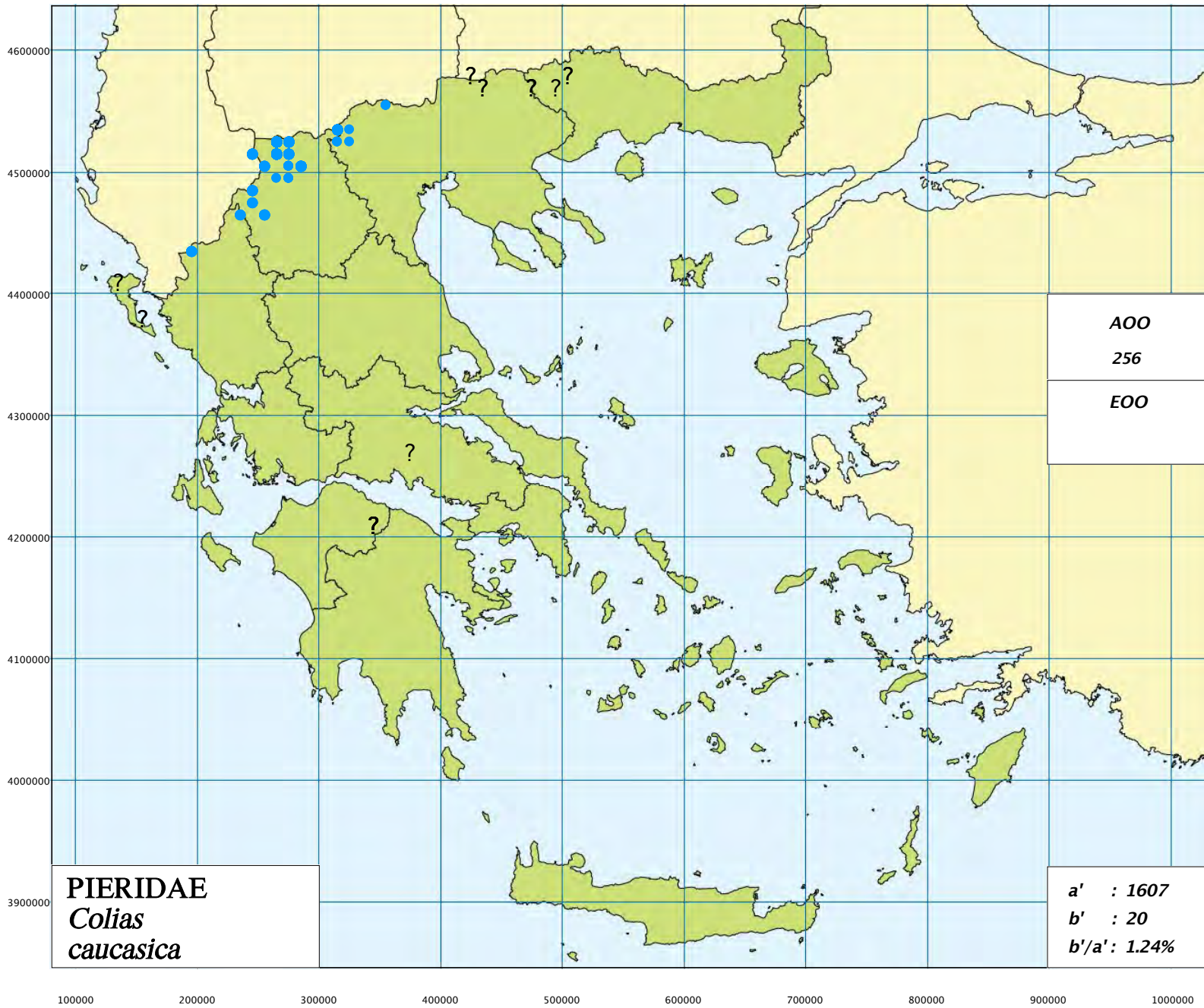




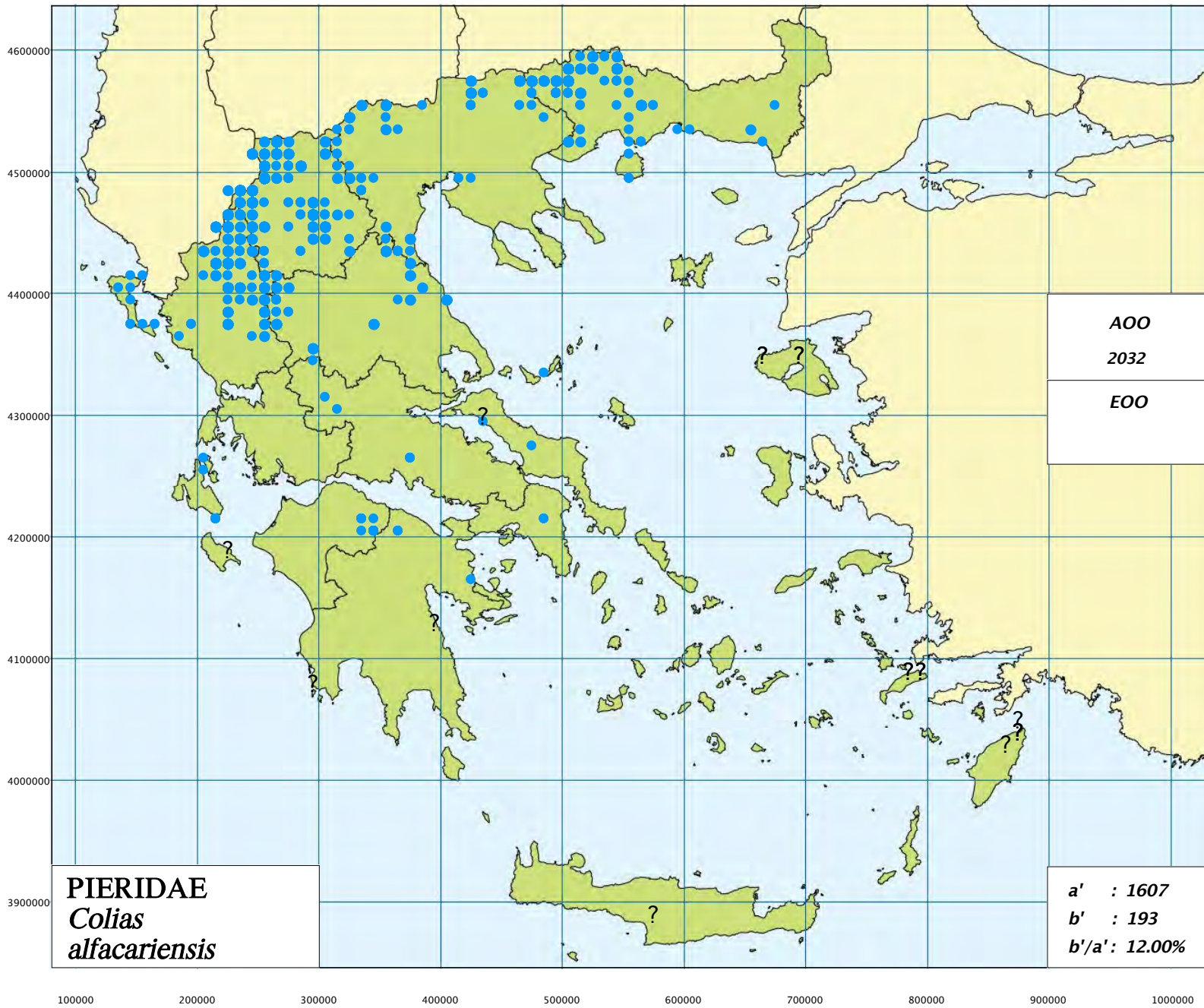
**PIERIDAE**  
*Colias*  
*crocea*



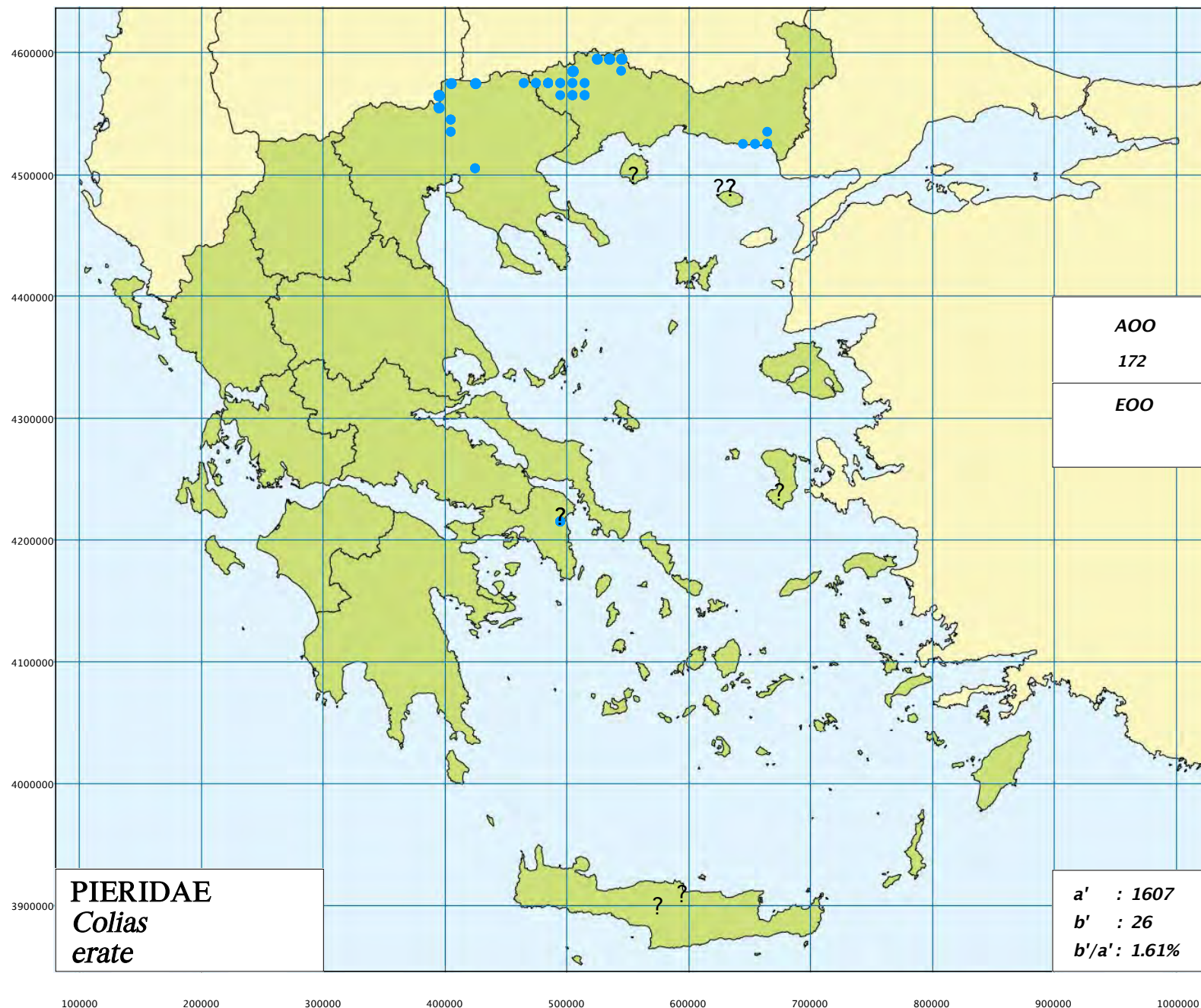






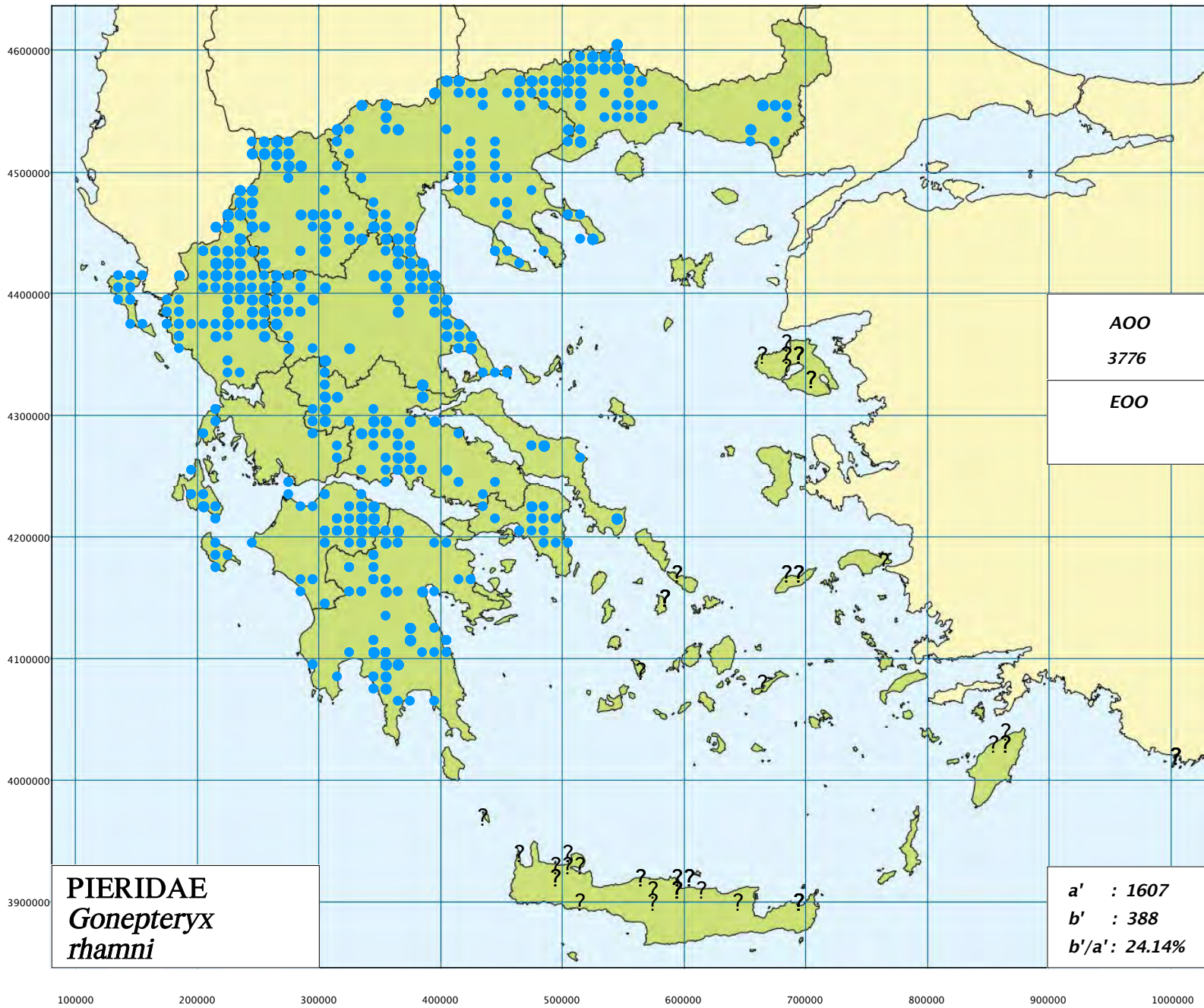


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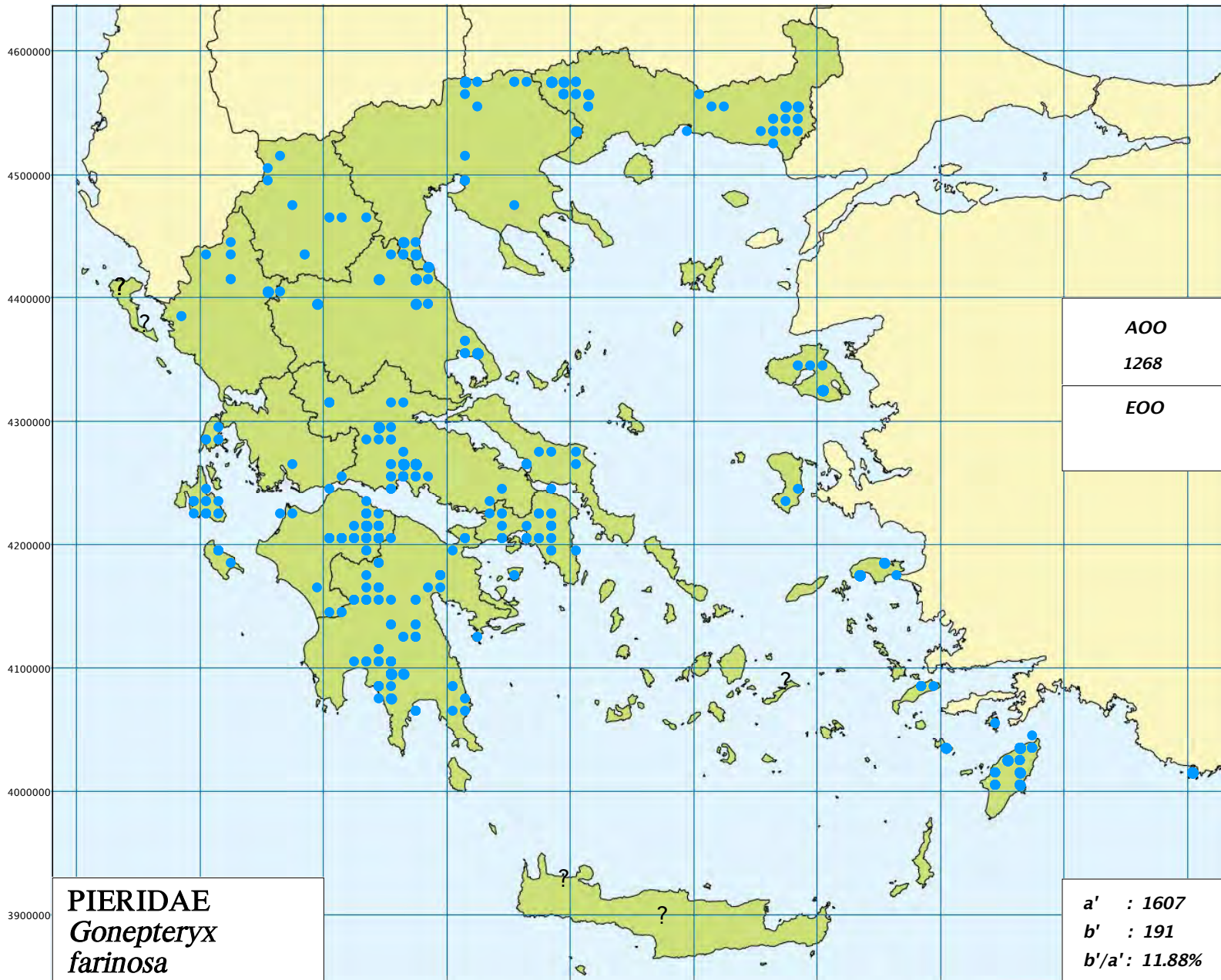


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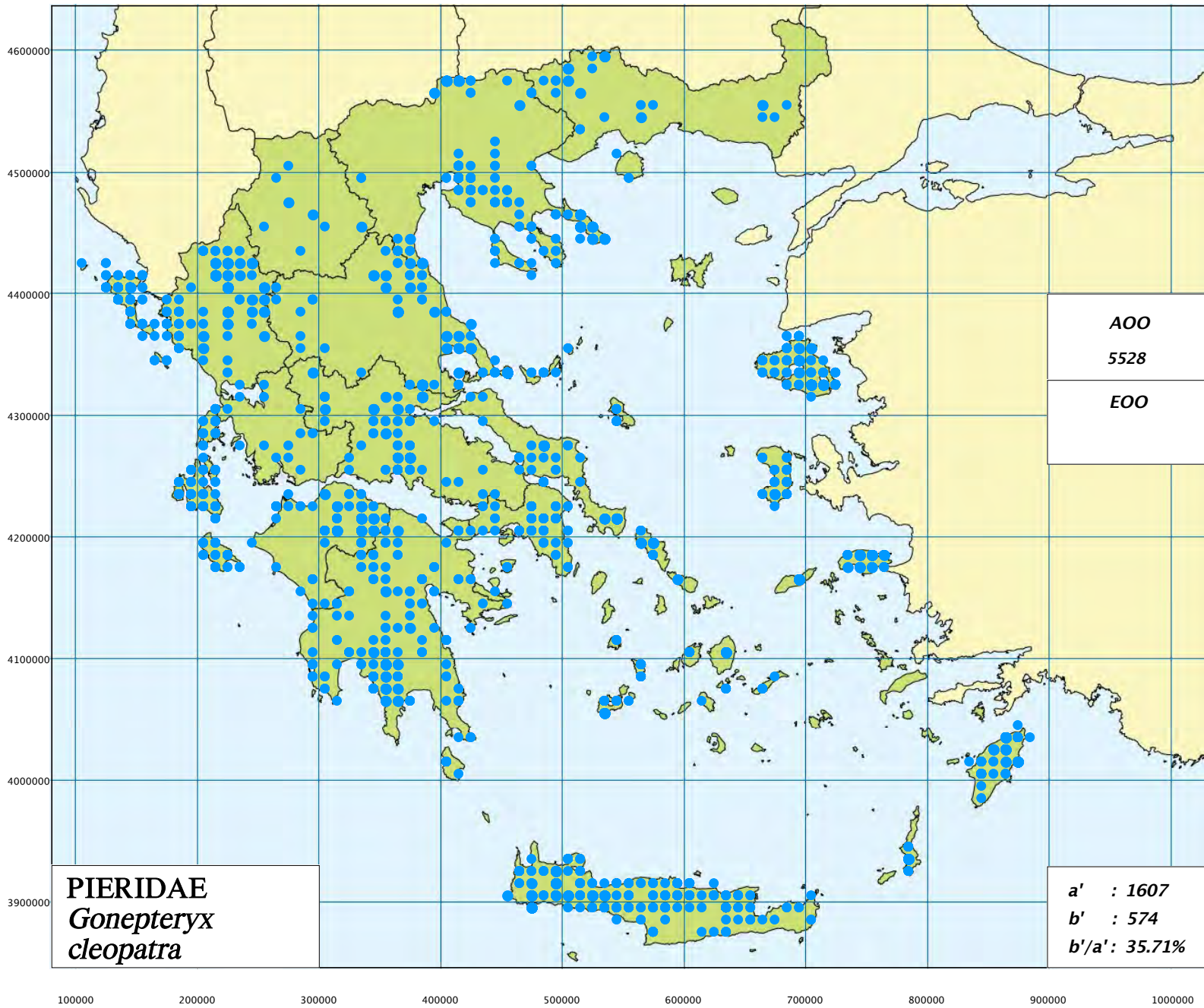


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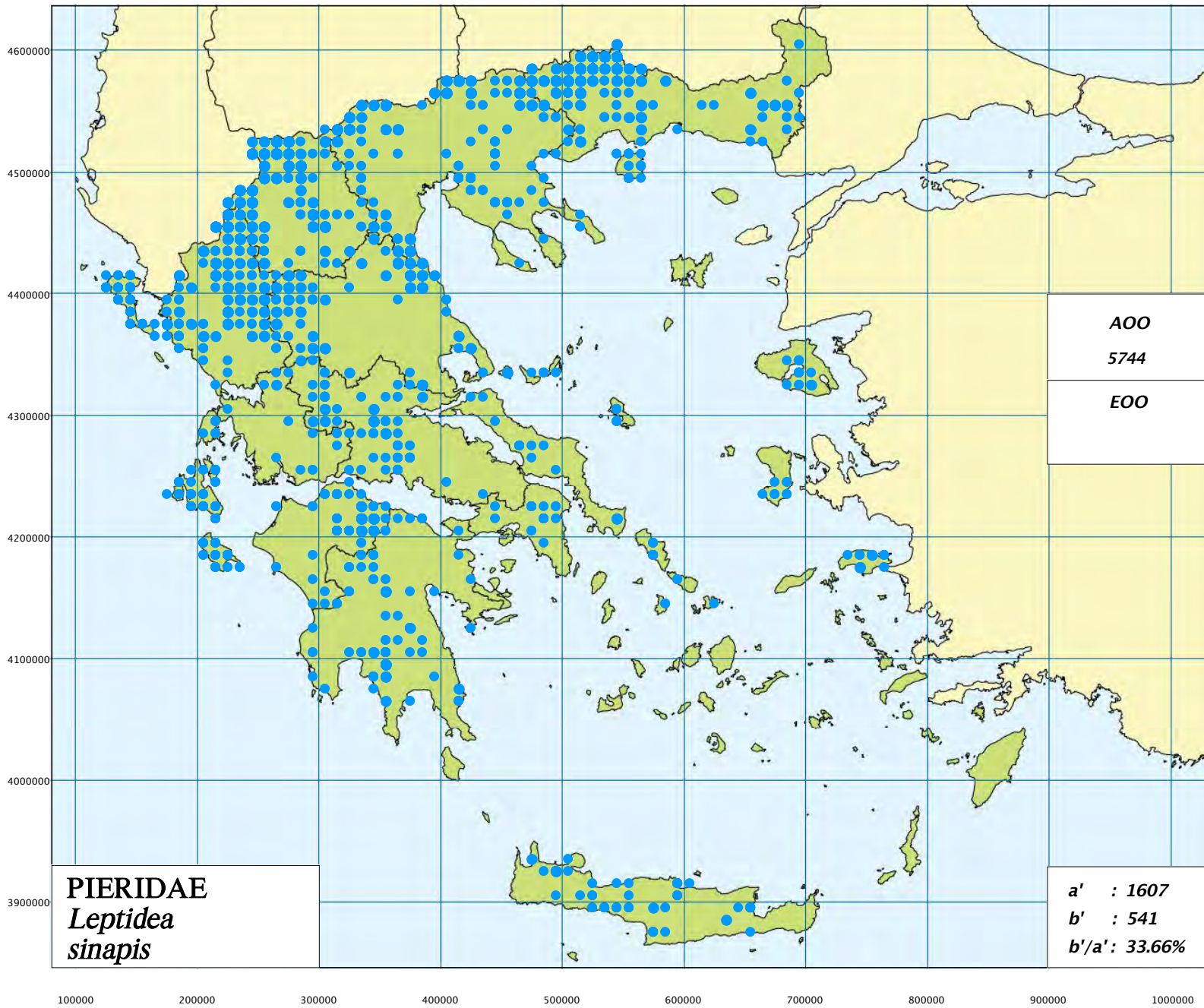
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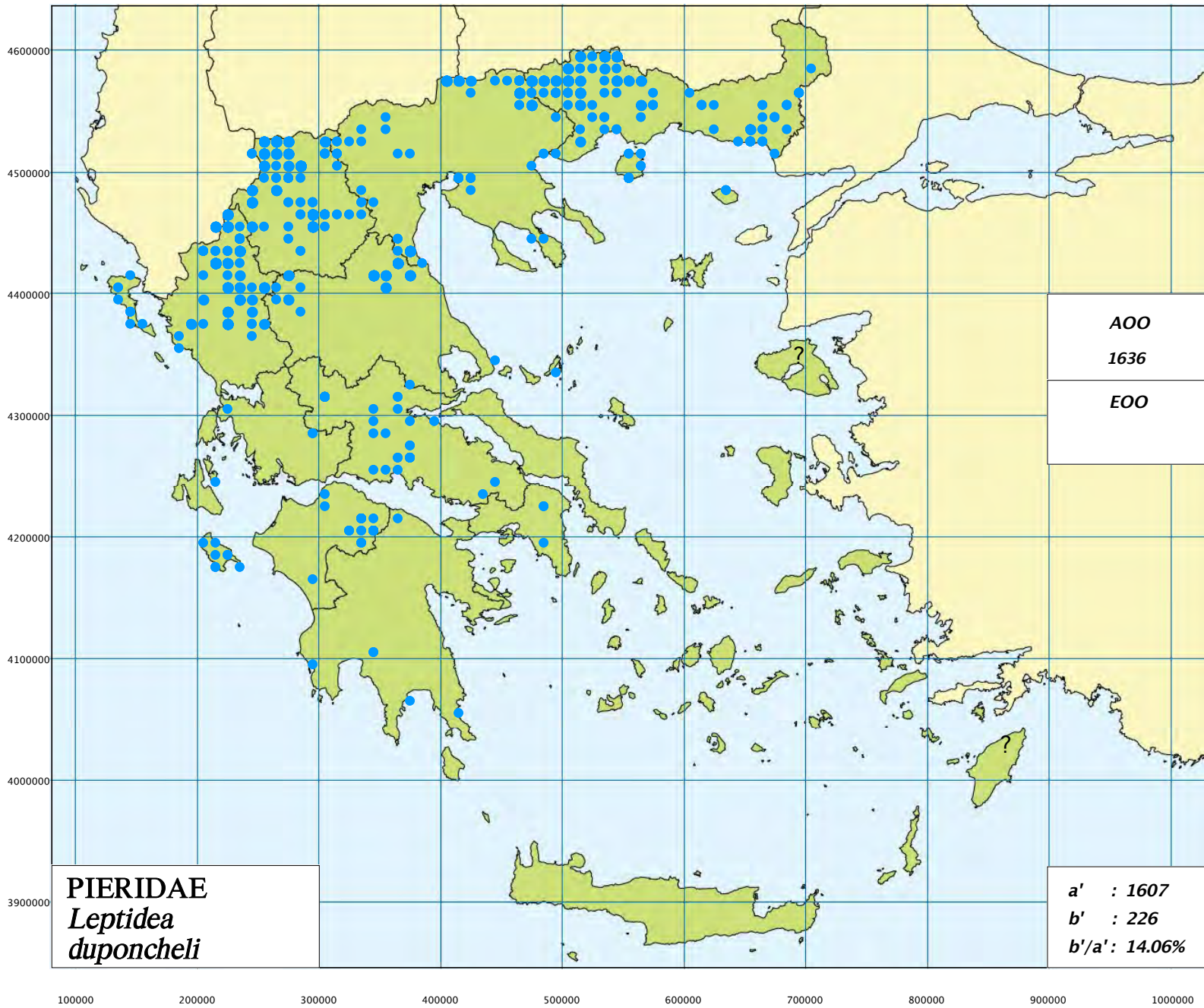
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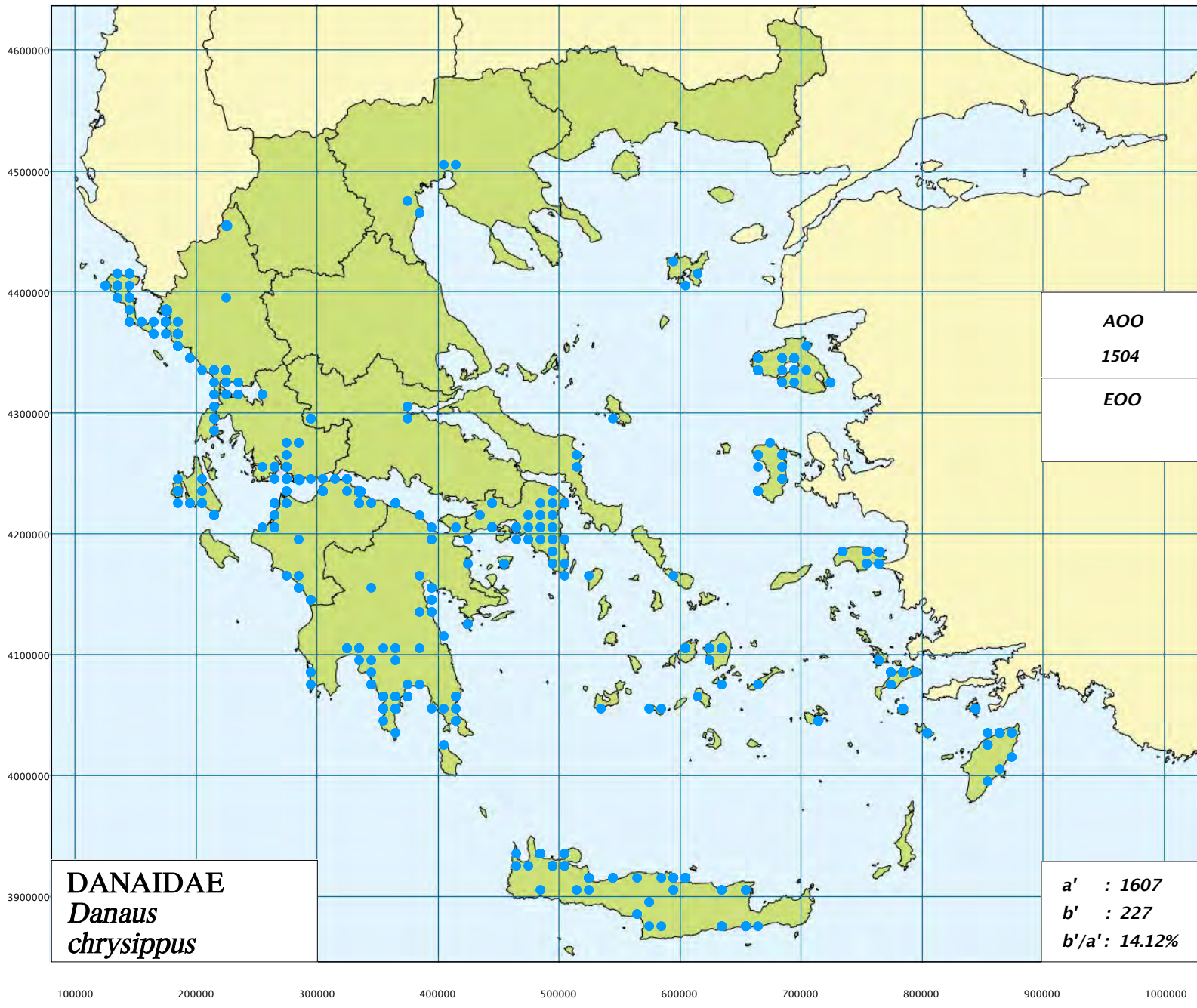
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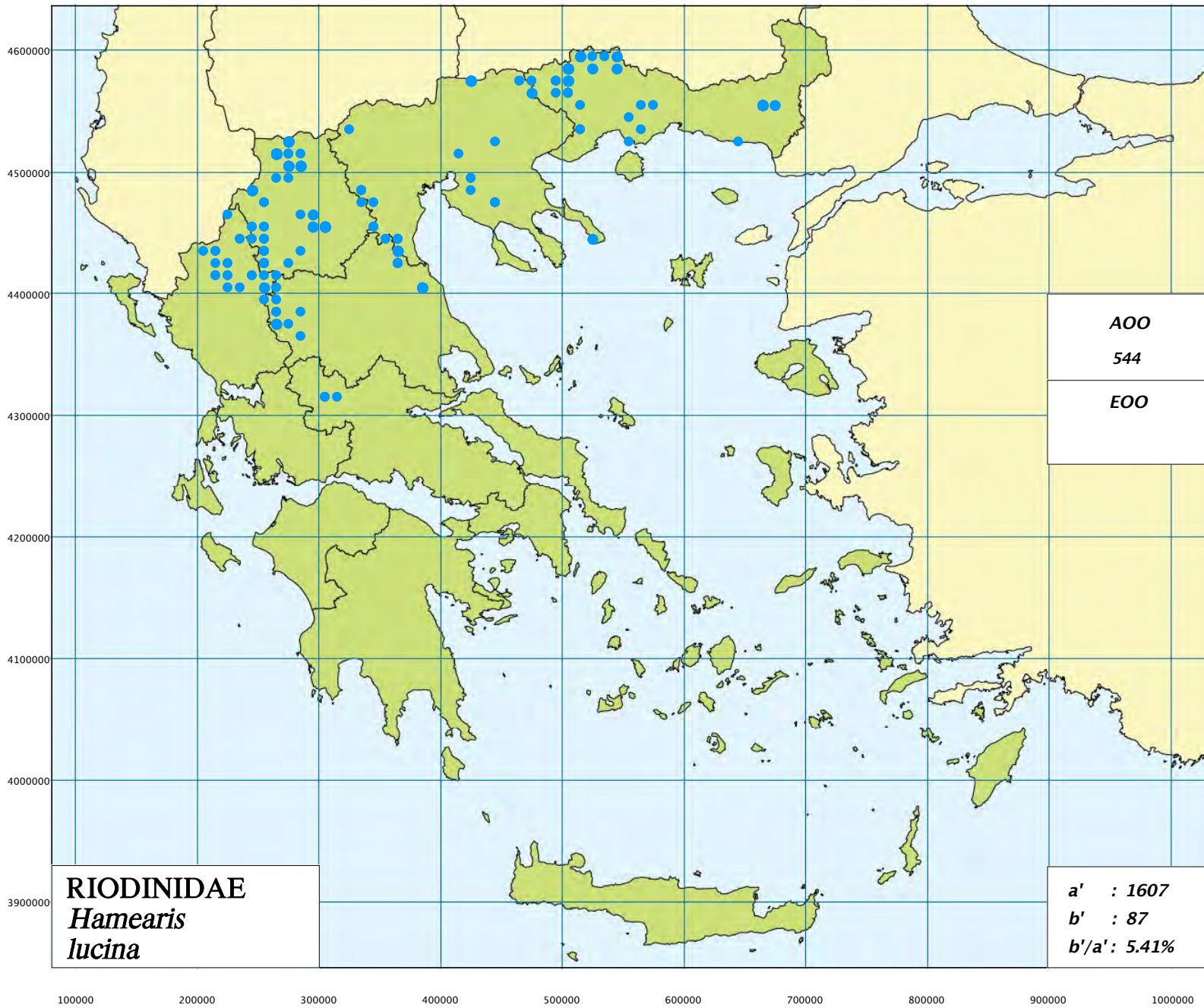


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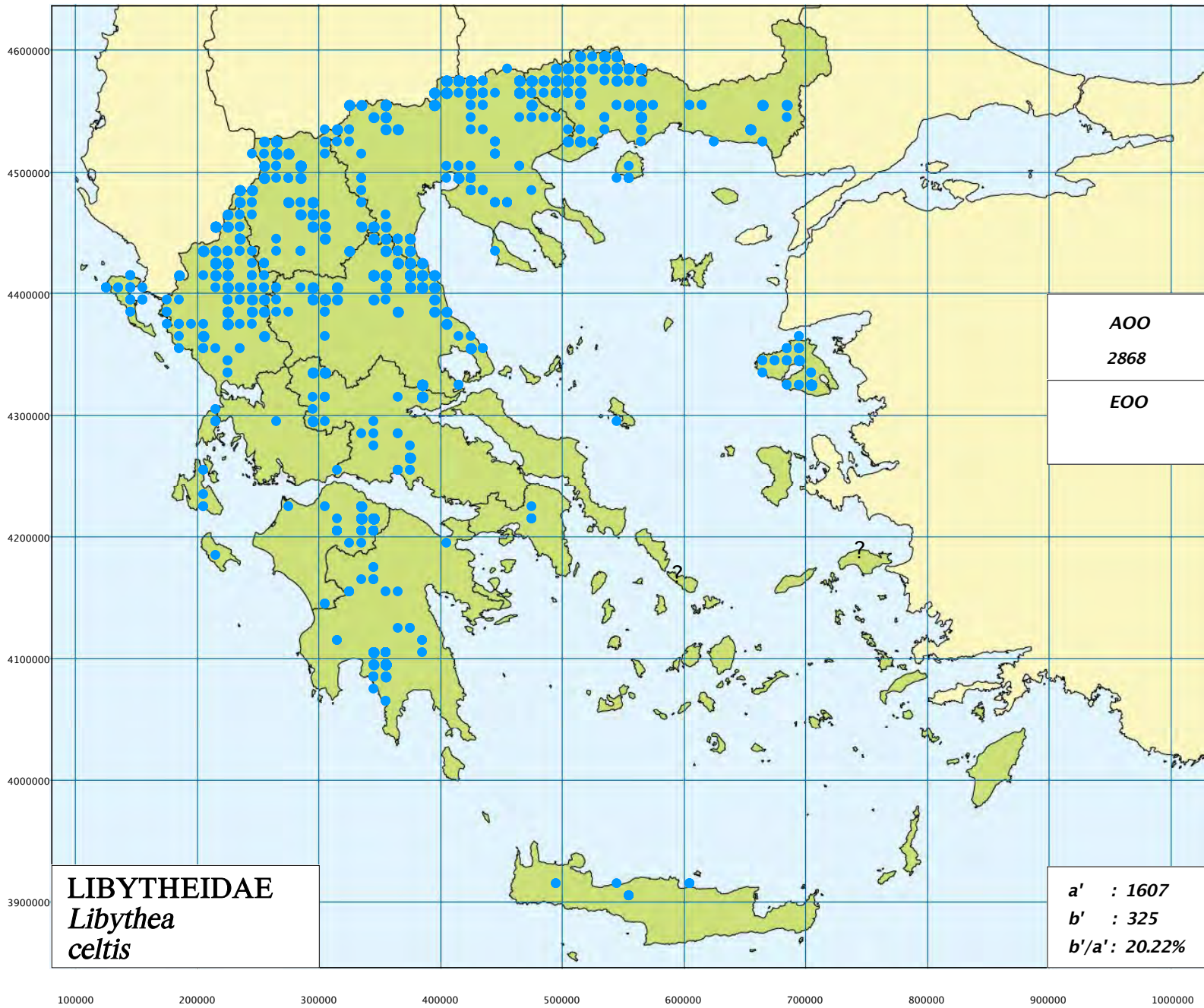


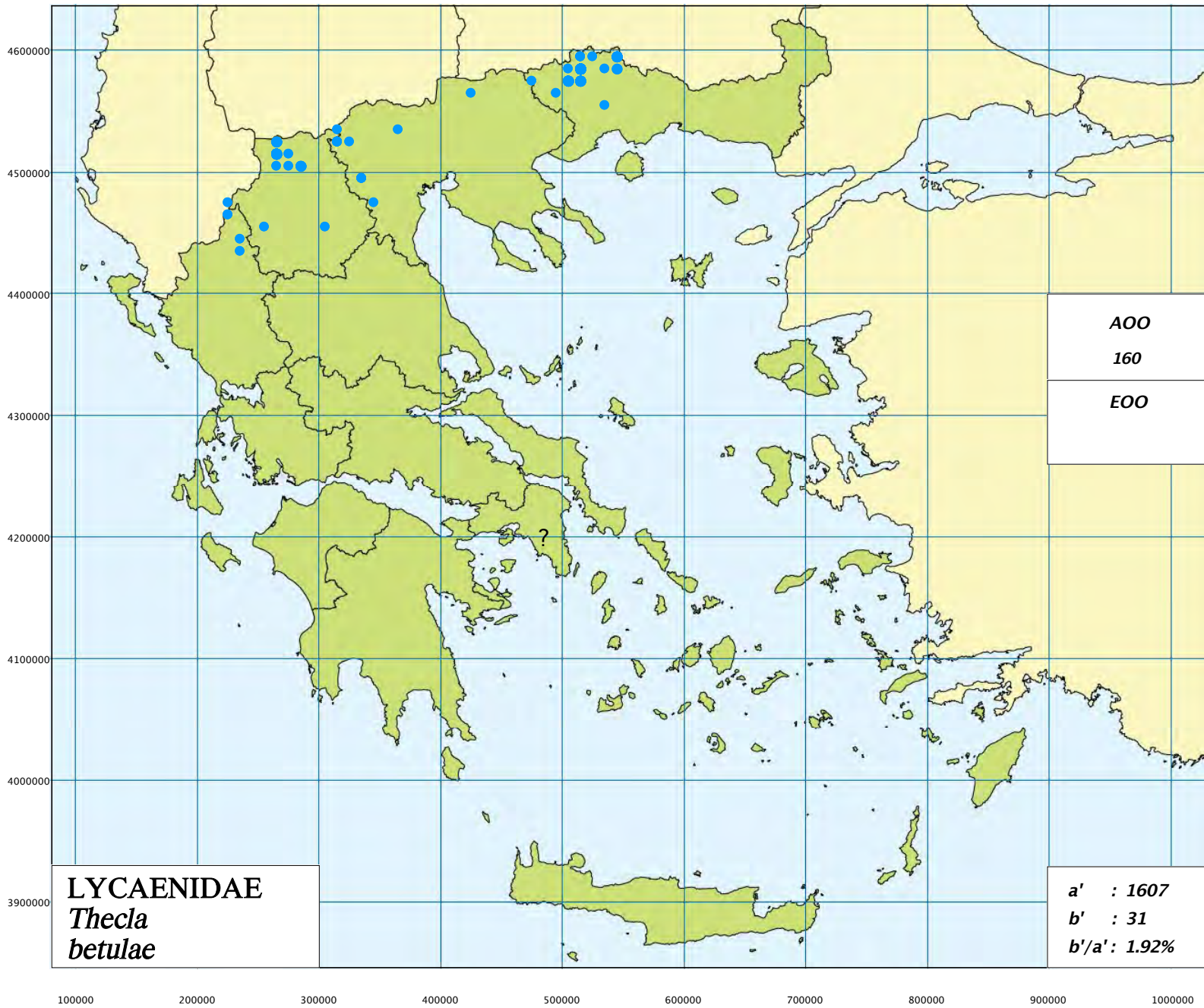




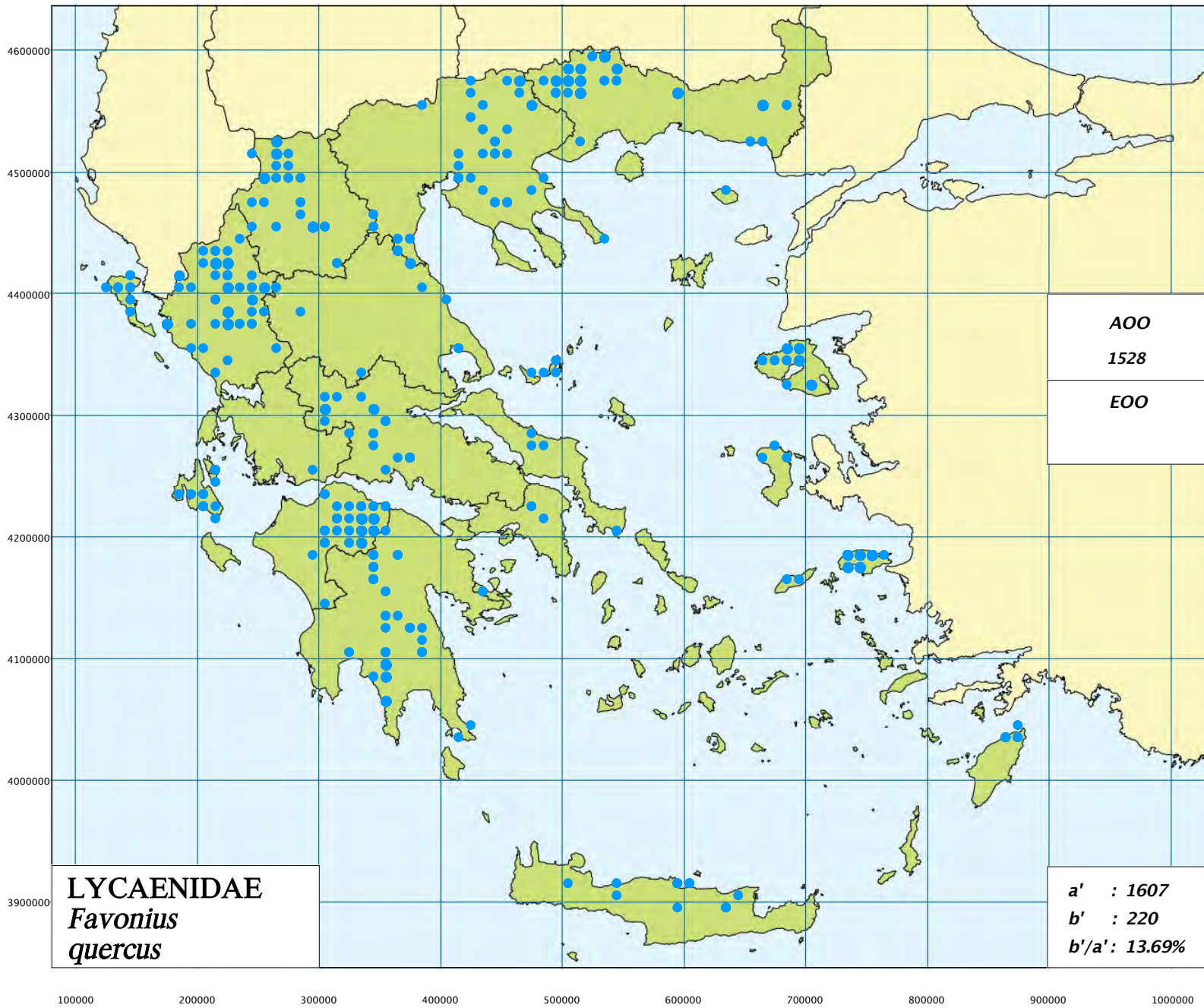


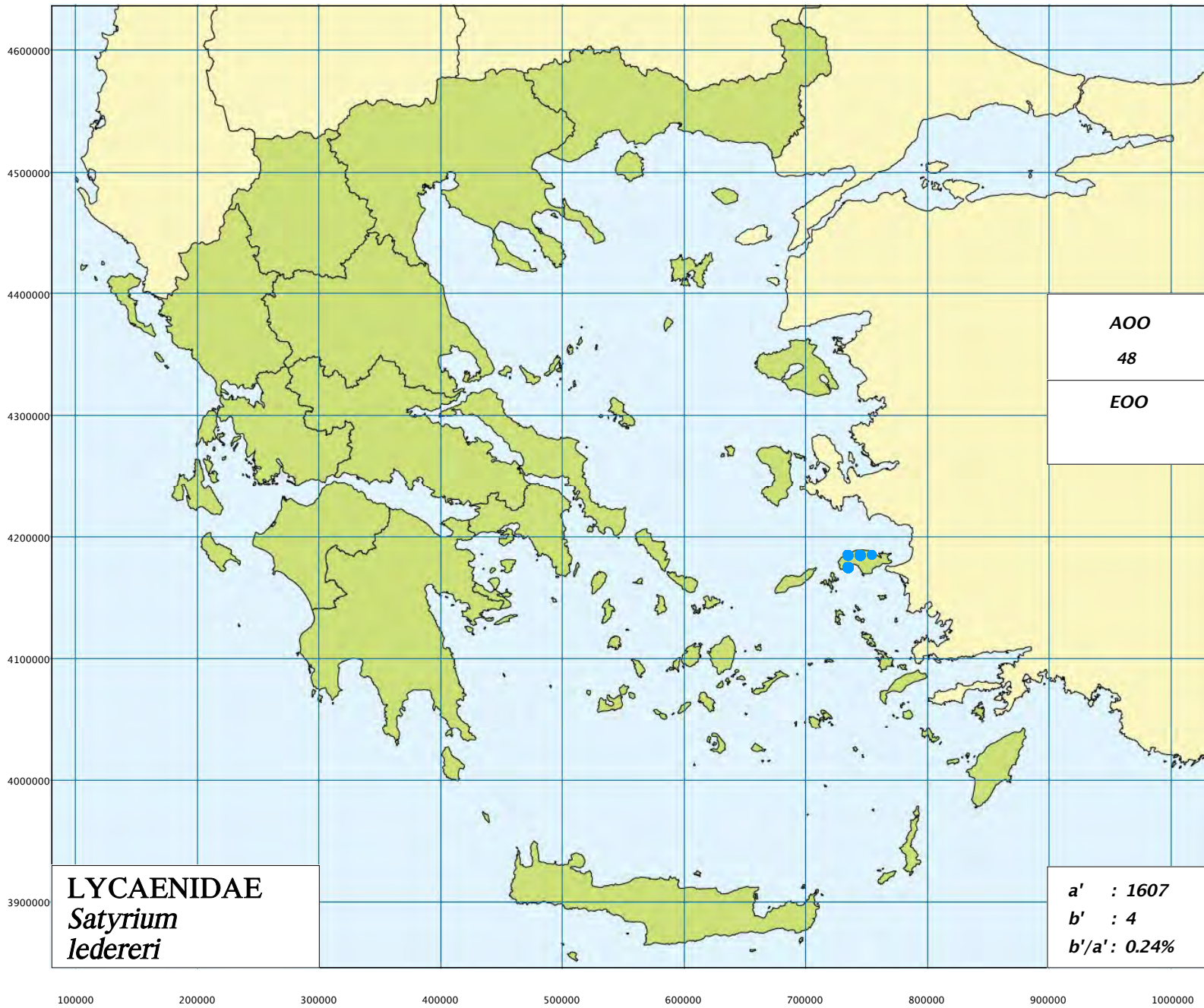




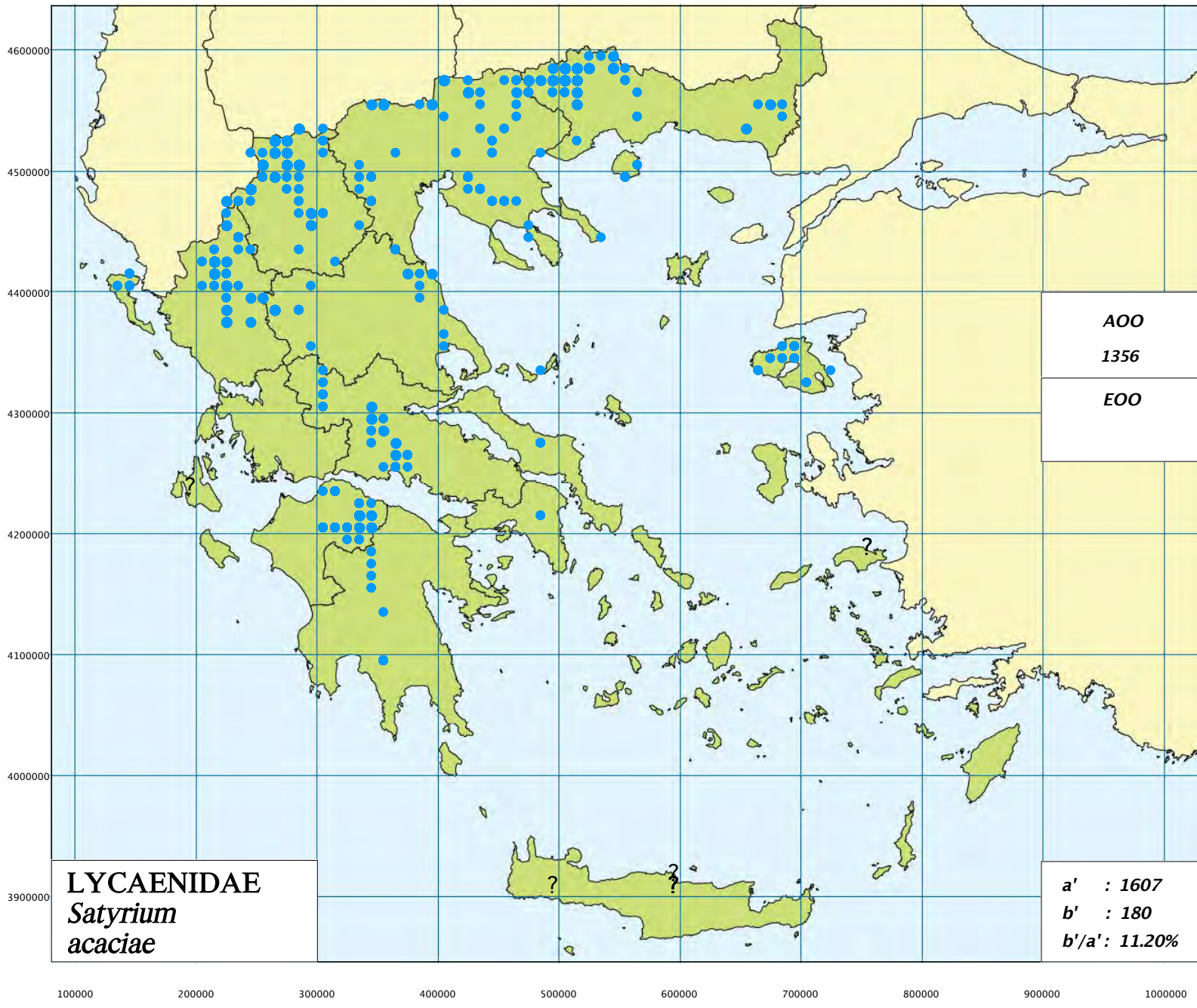


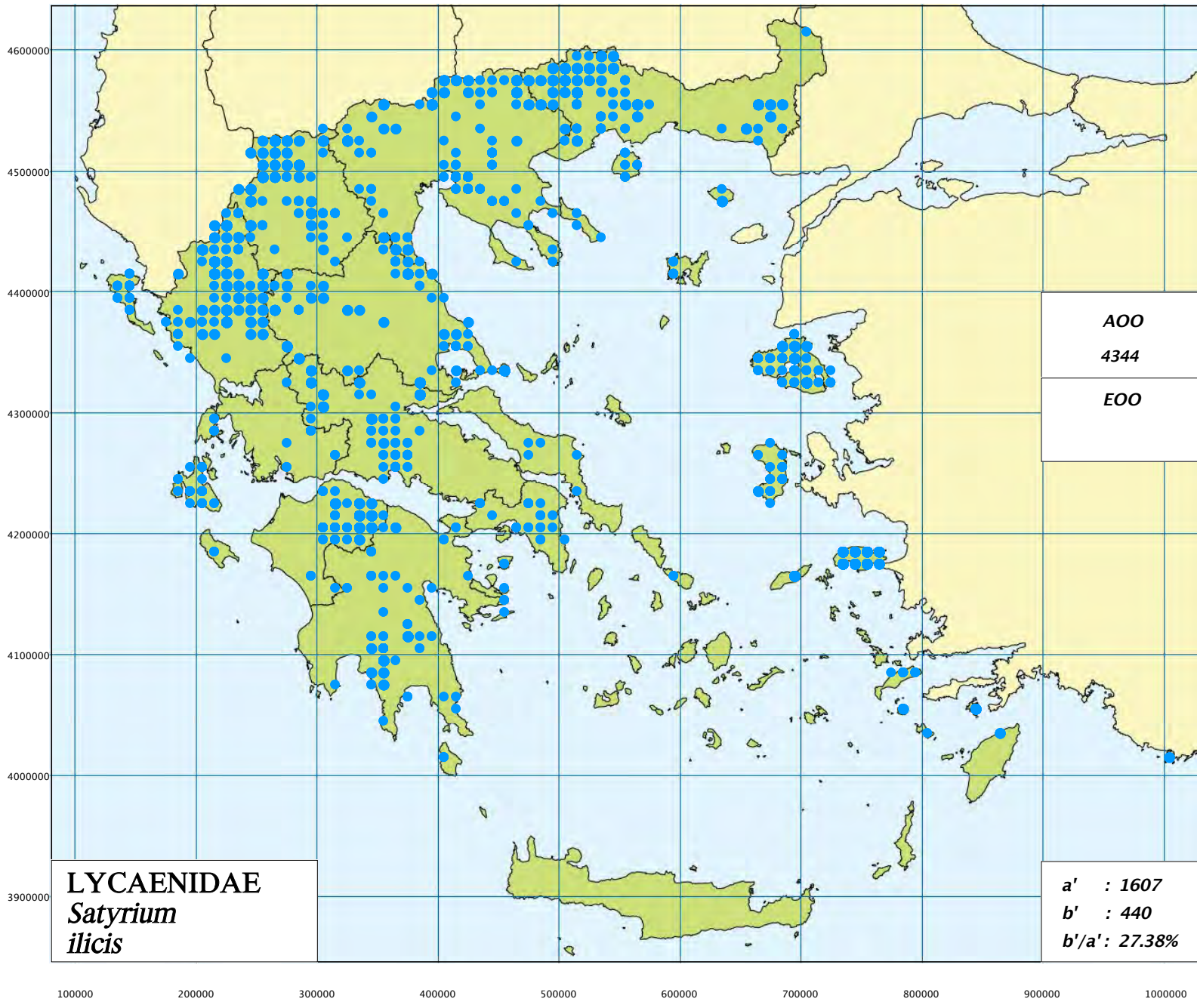




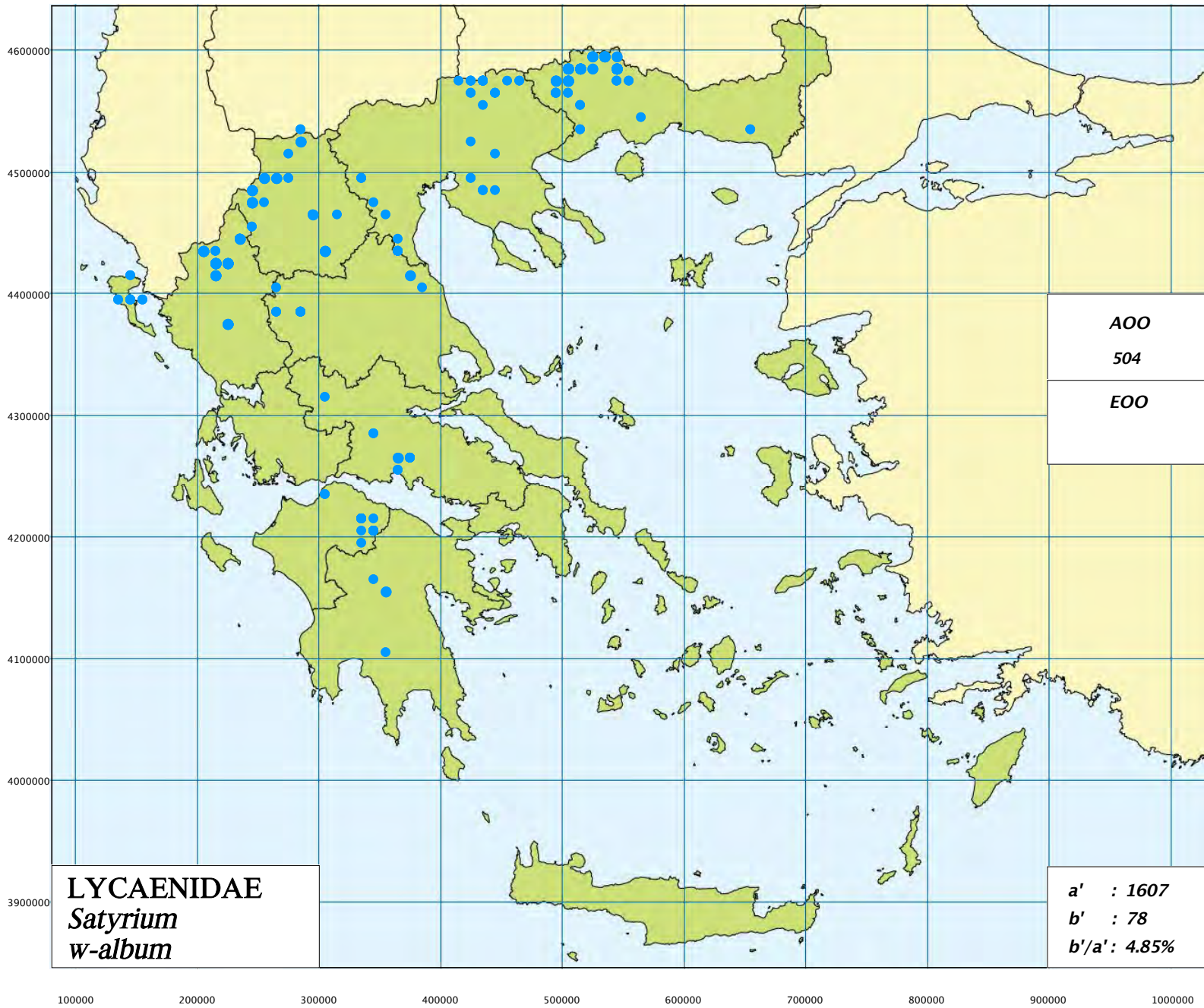


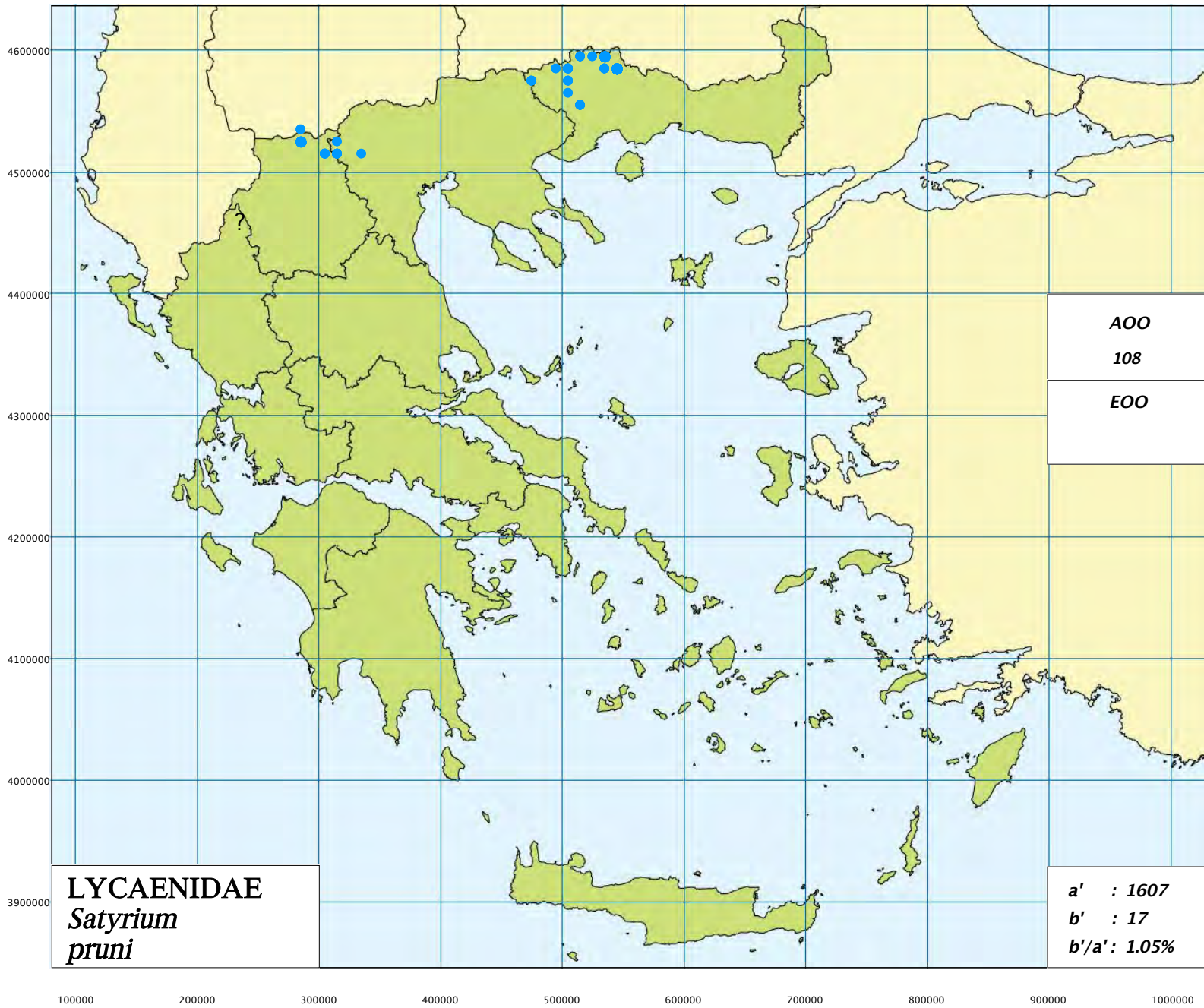




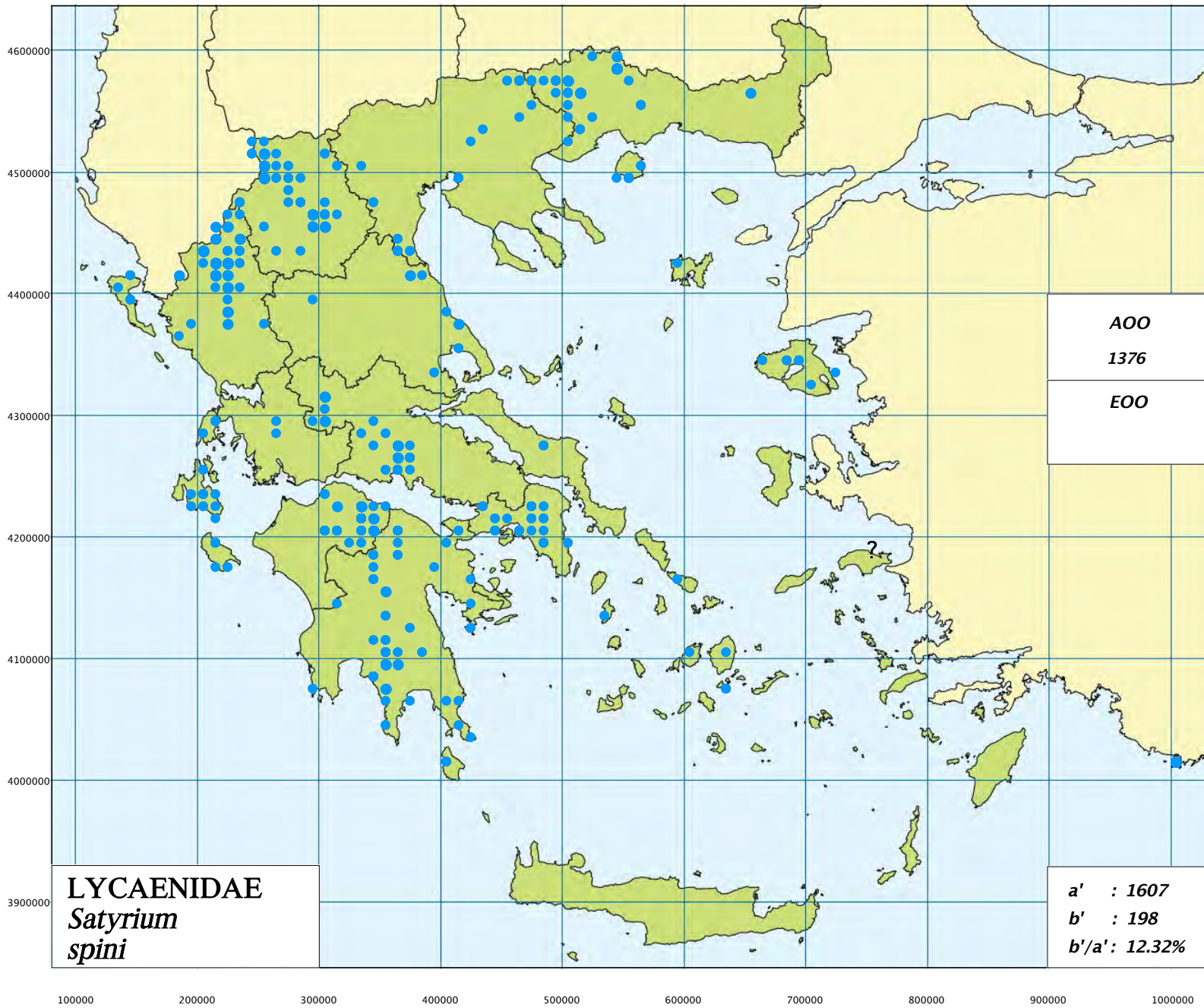


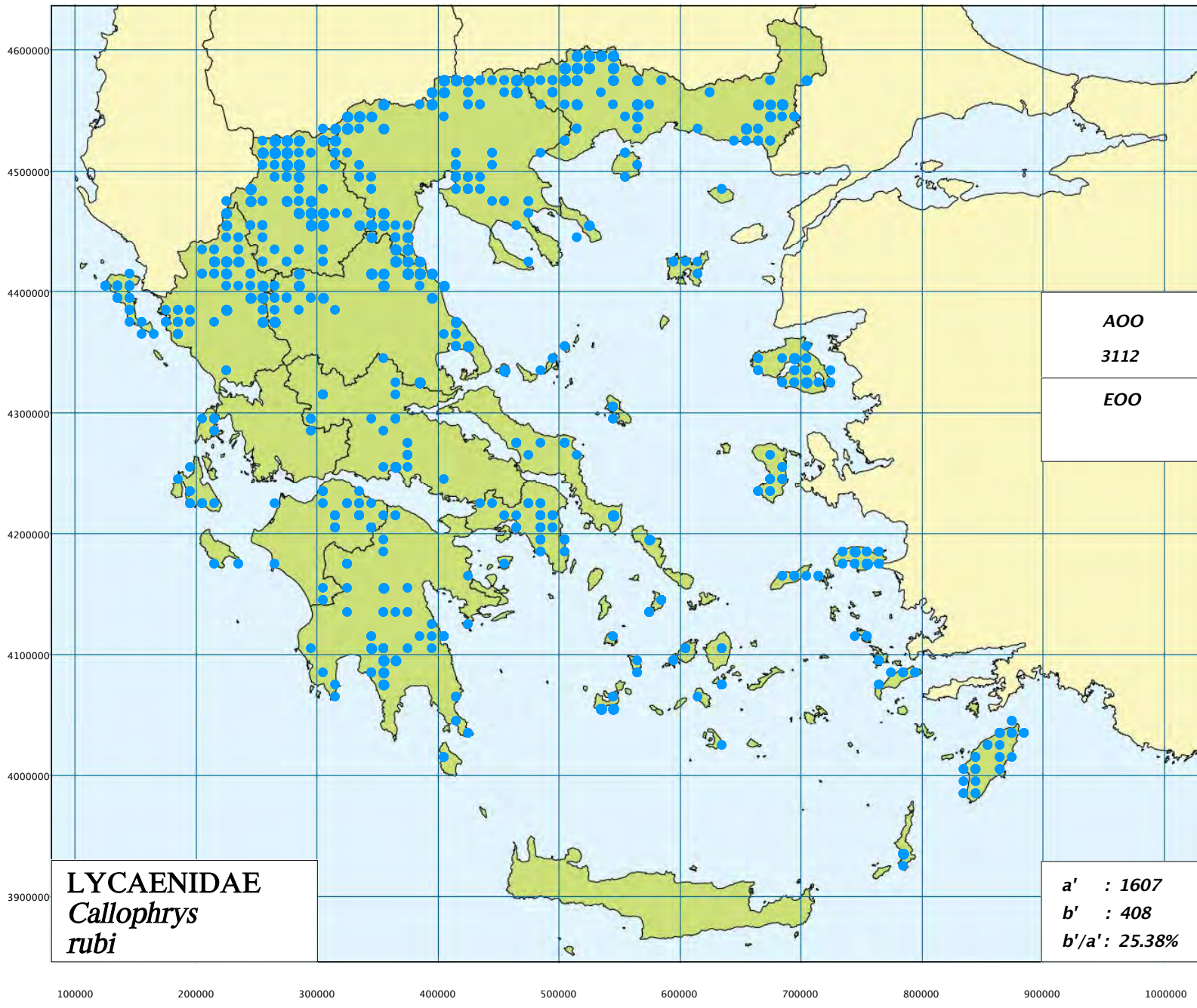




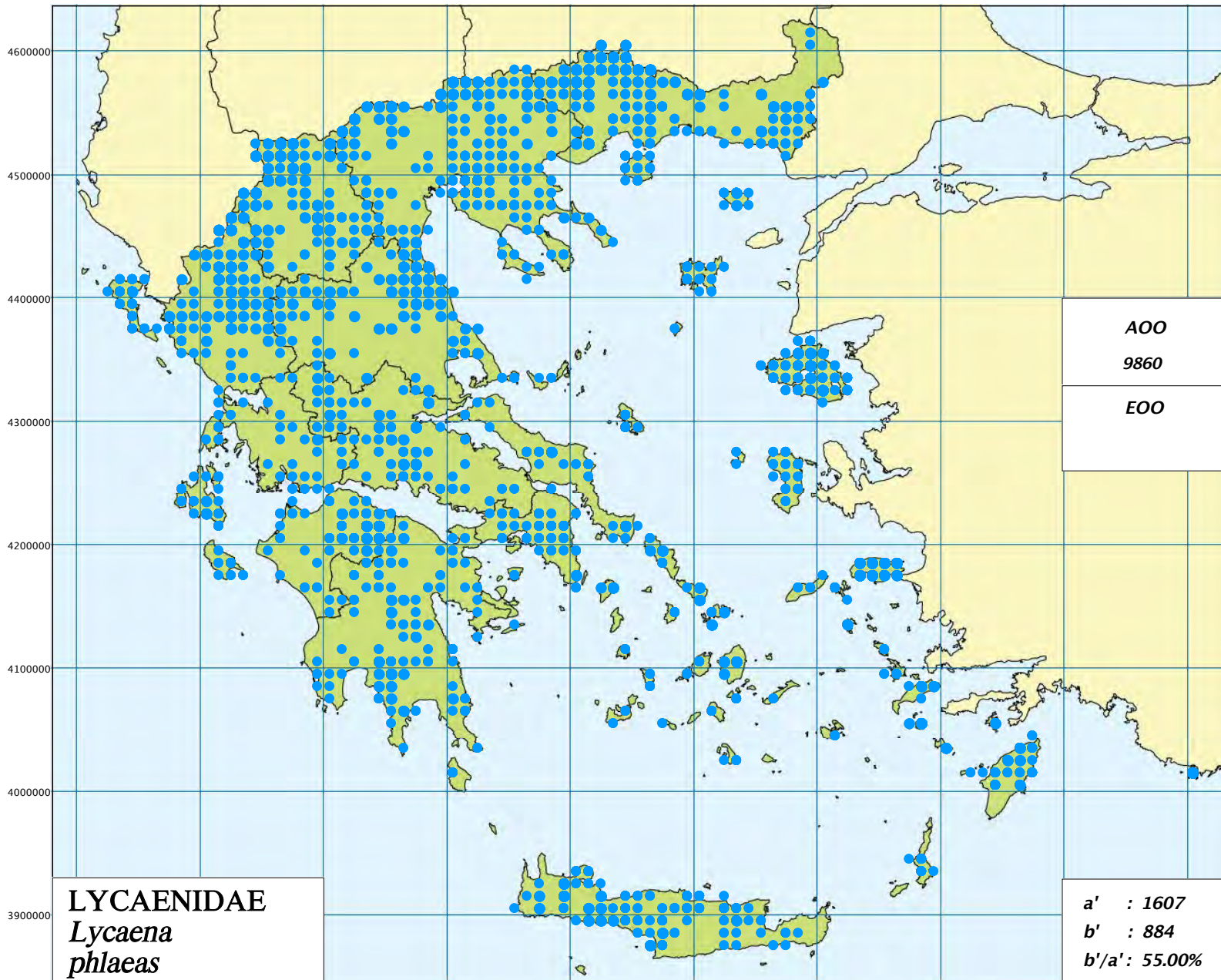






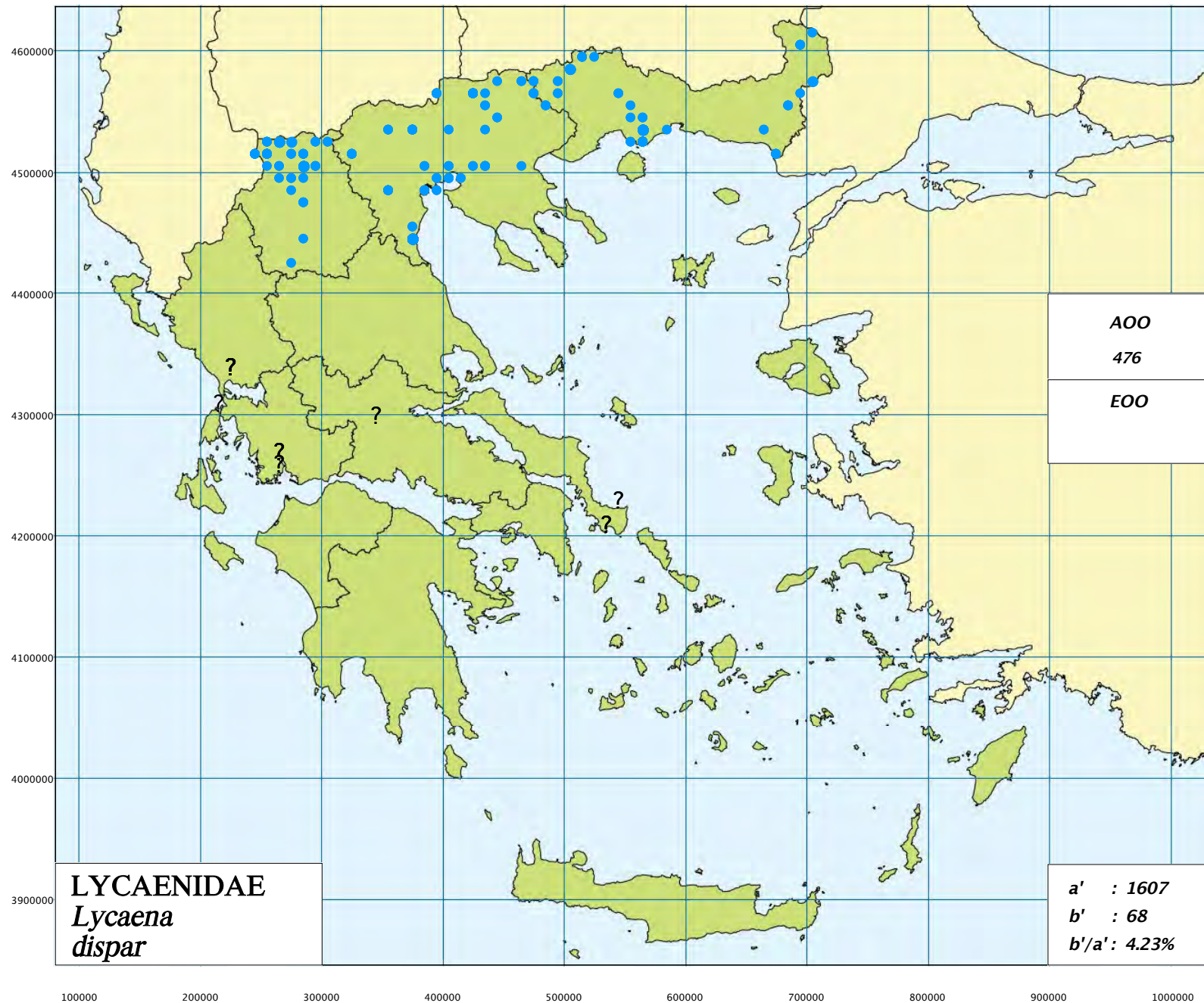






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<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>





<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>



**LYCAENIDAE**  
*Lycaena*  
*alciphron*

100000 200000 300000 400000 500000 600000 700000 800000 900000 1000000

<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>





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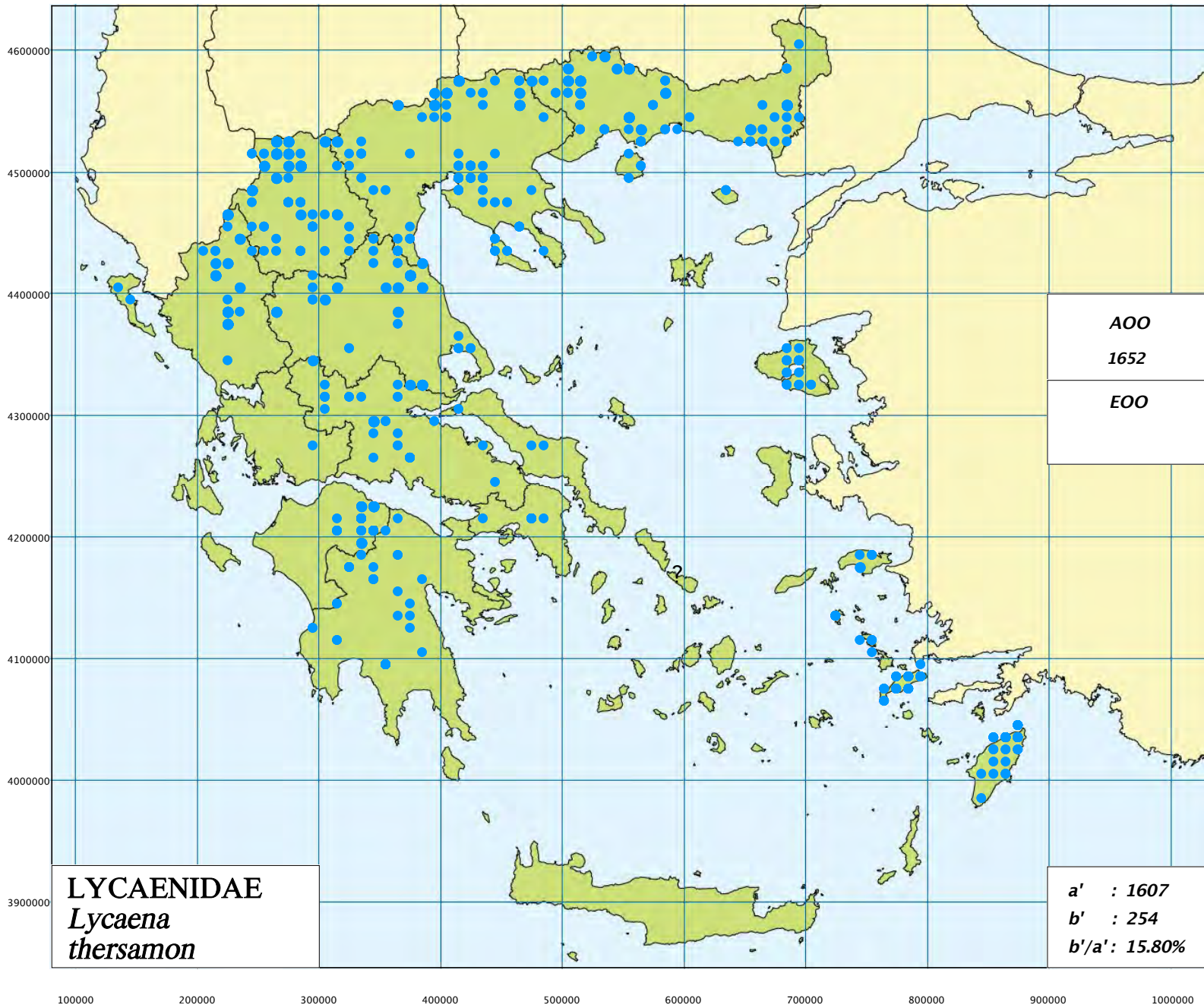
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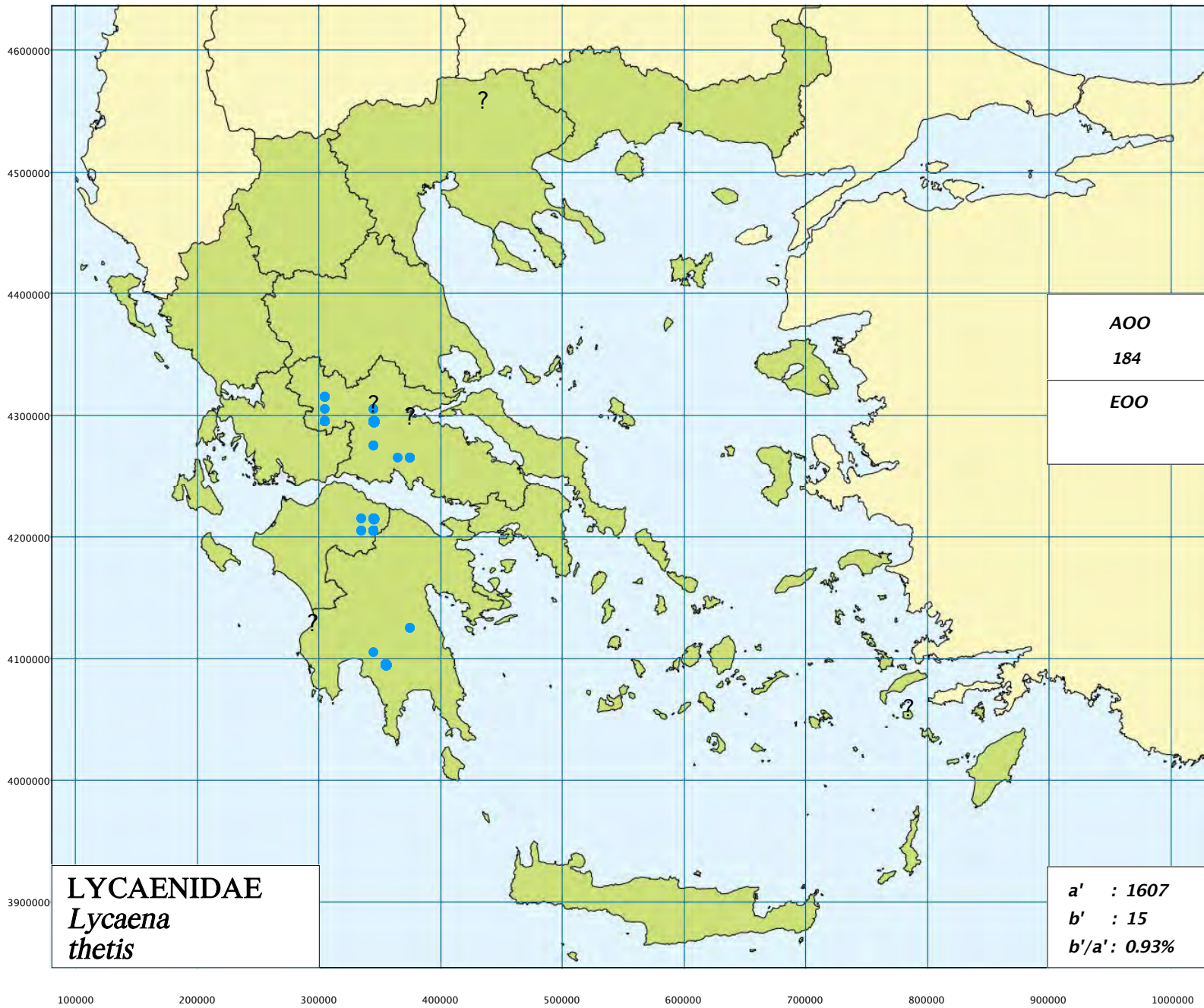
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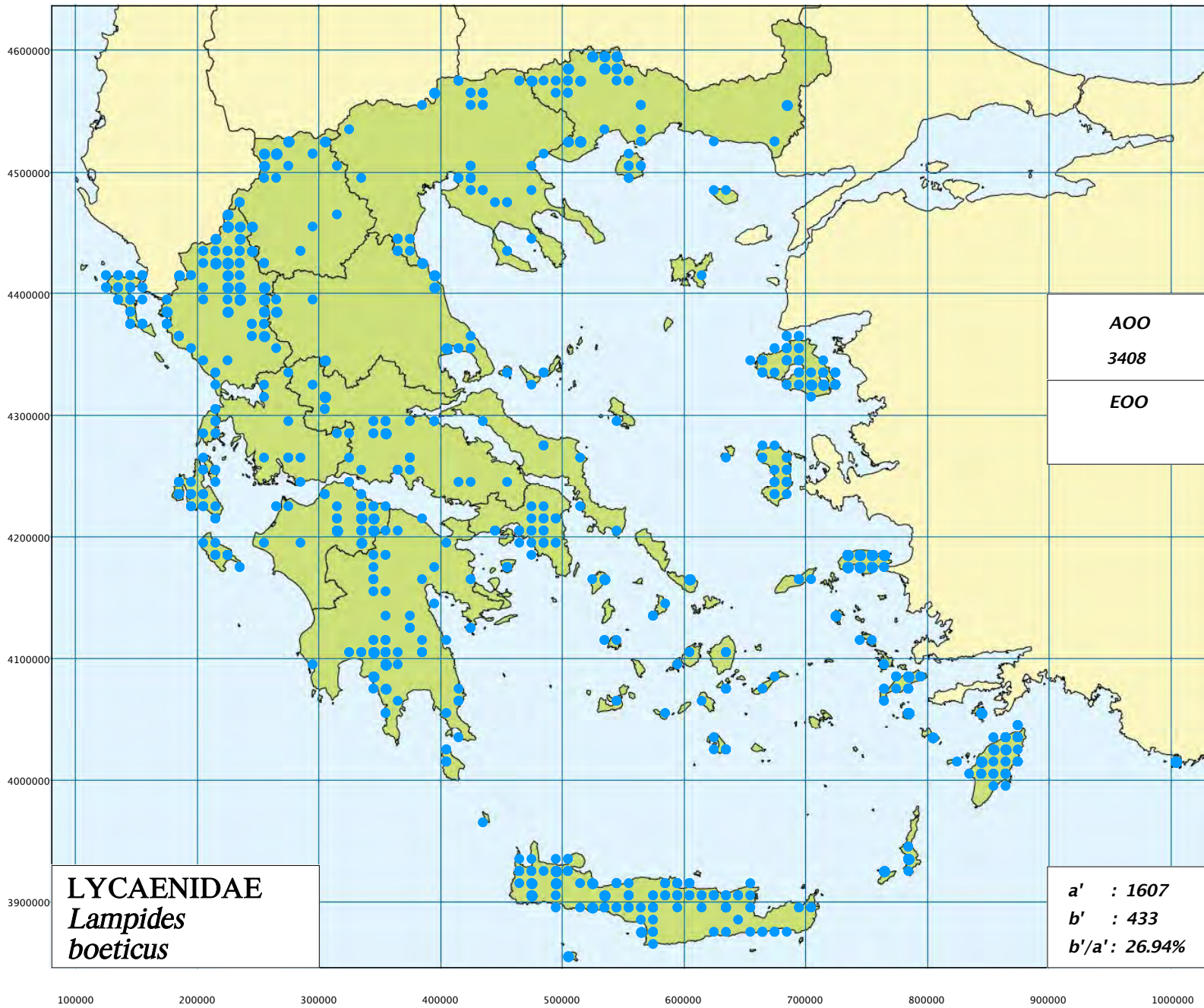


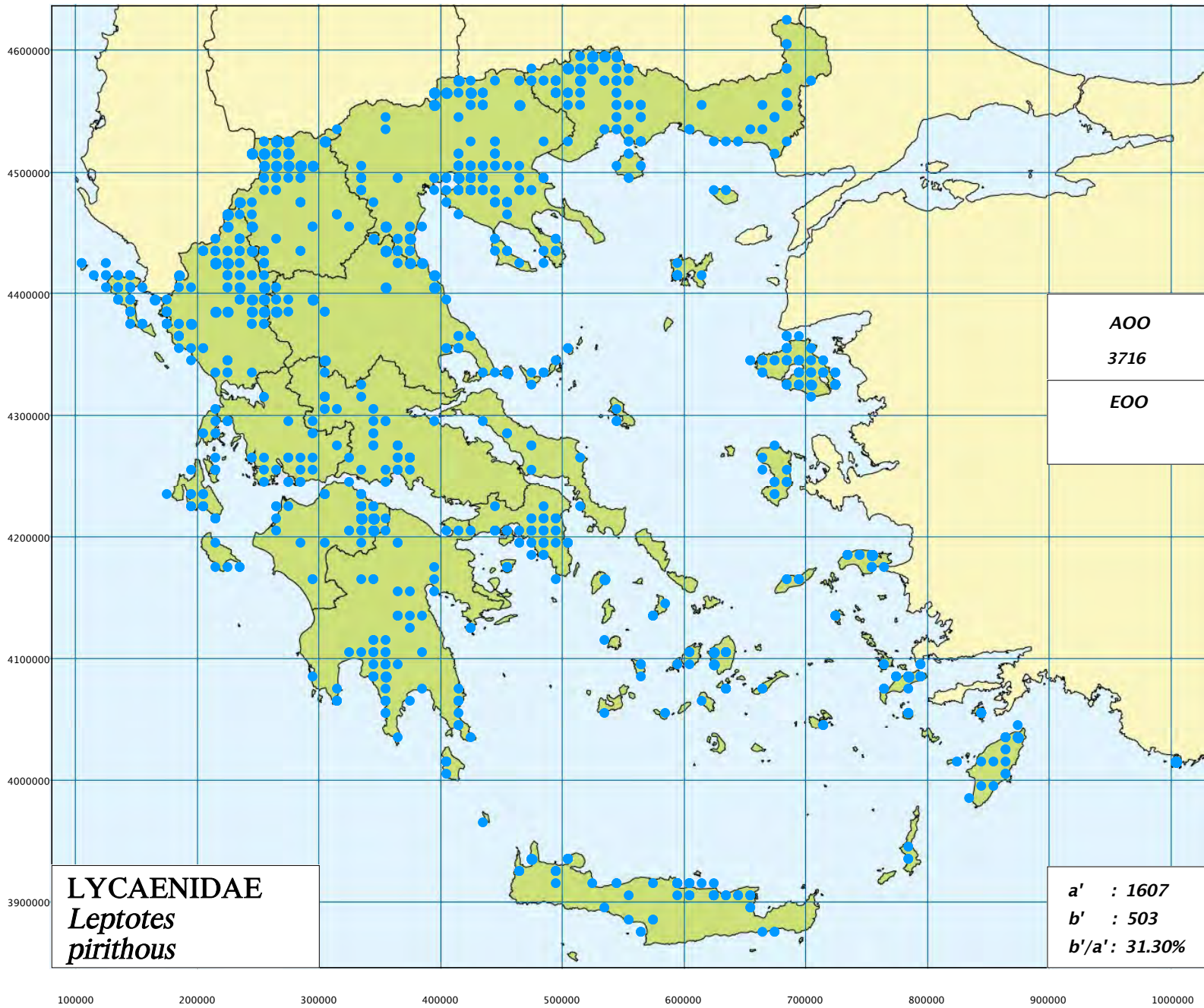


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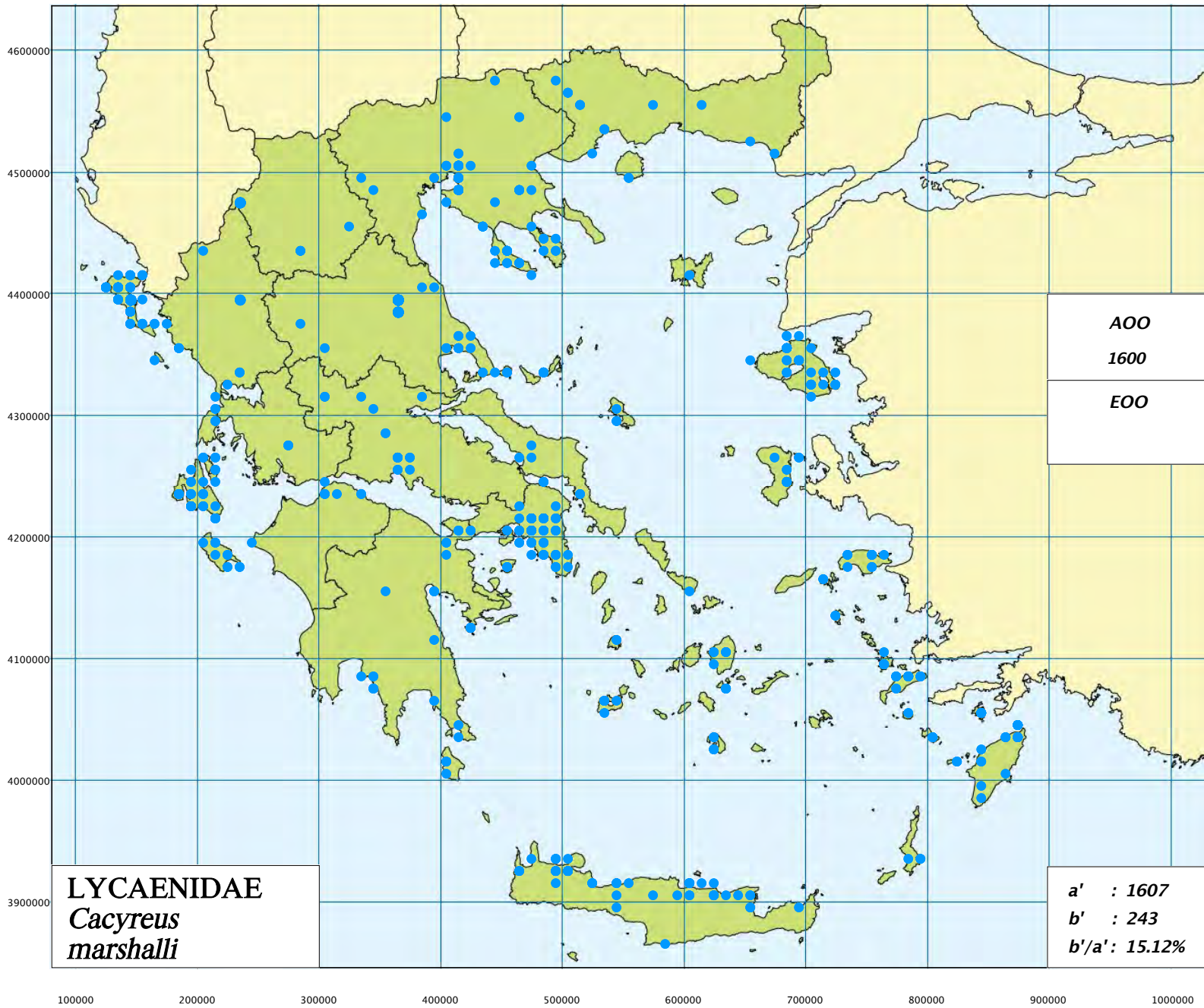


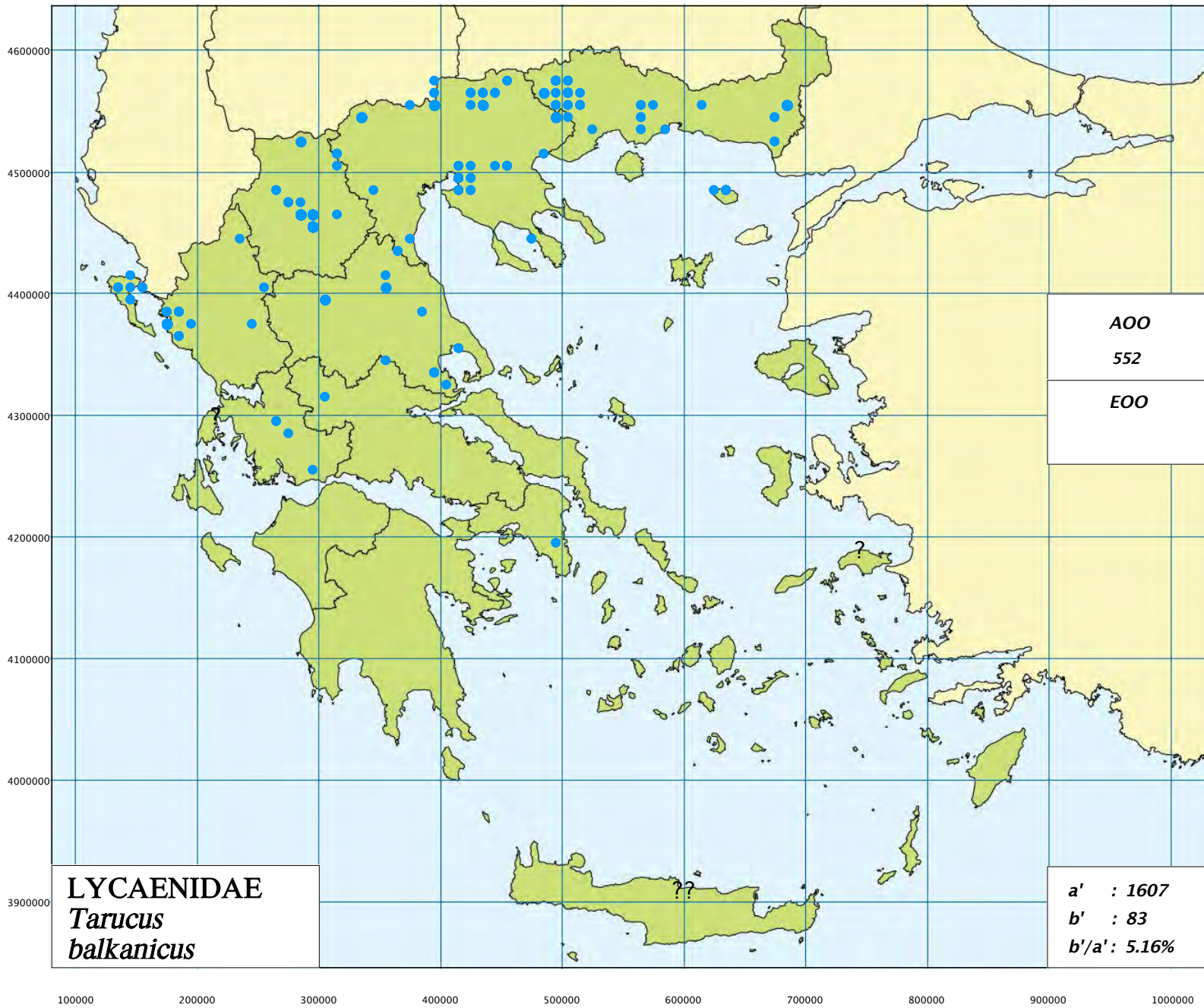




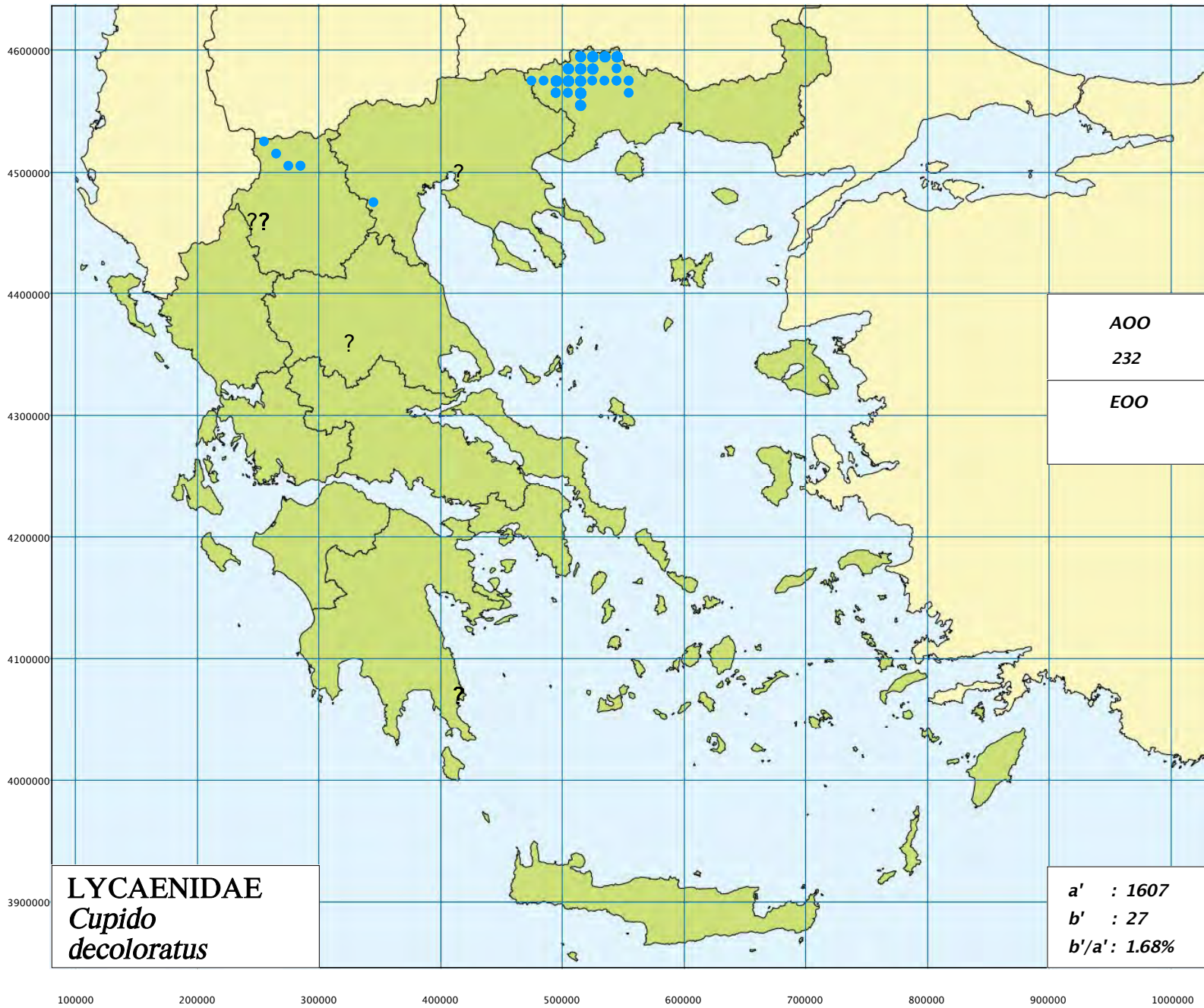


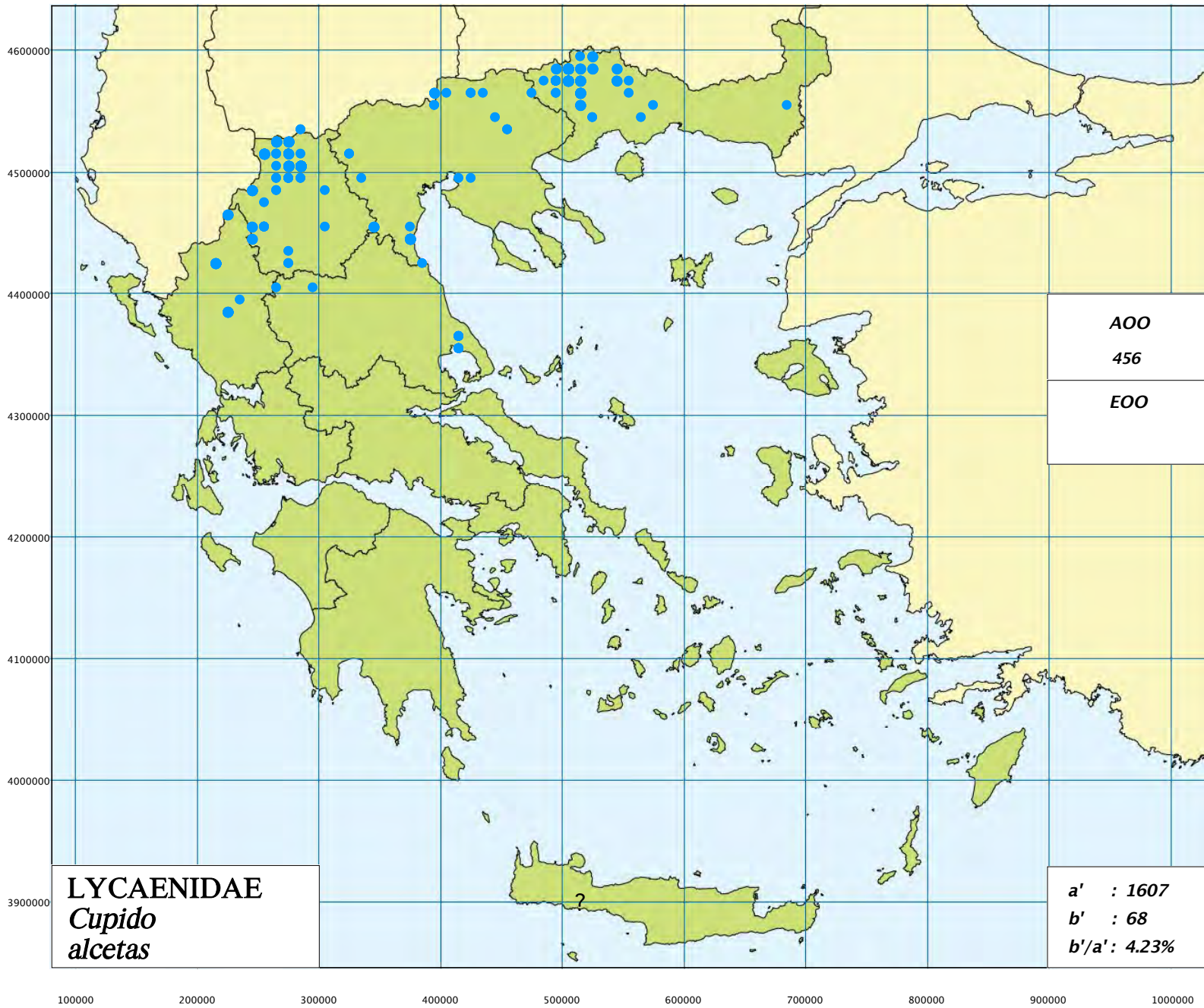




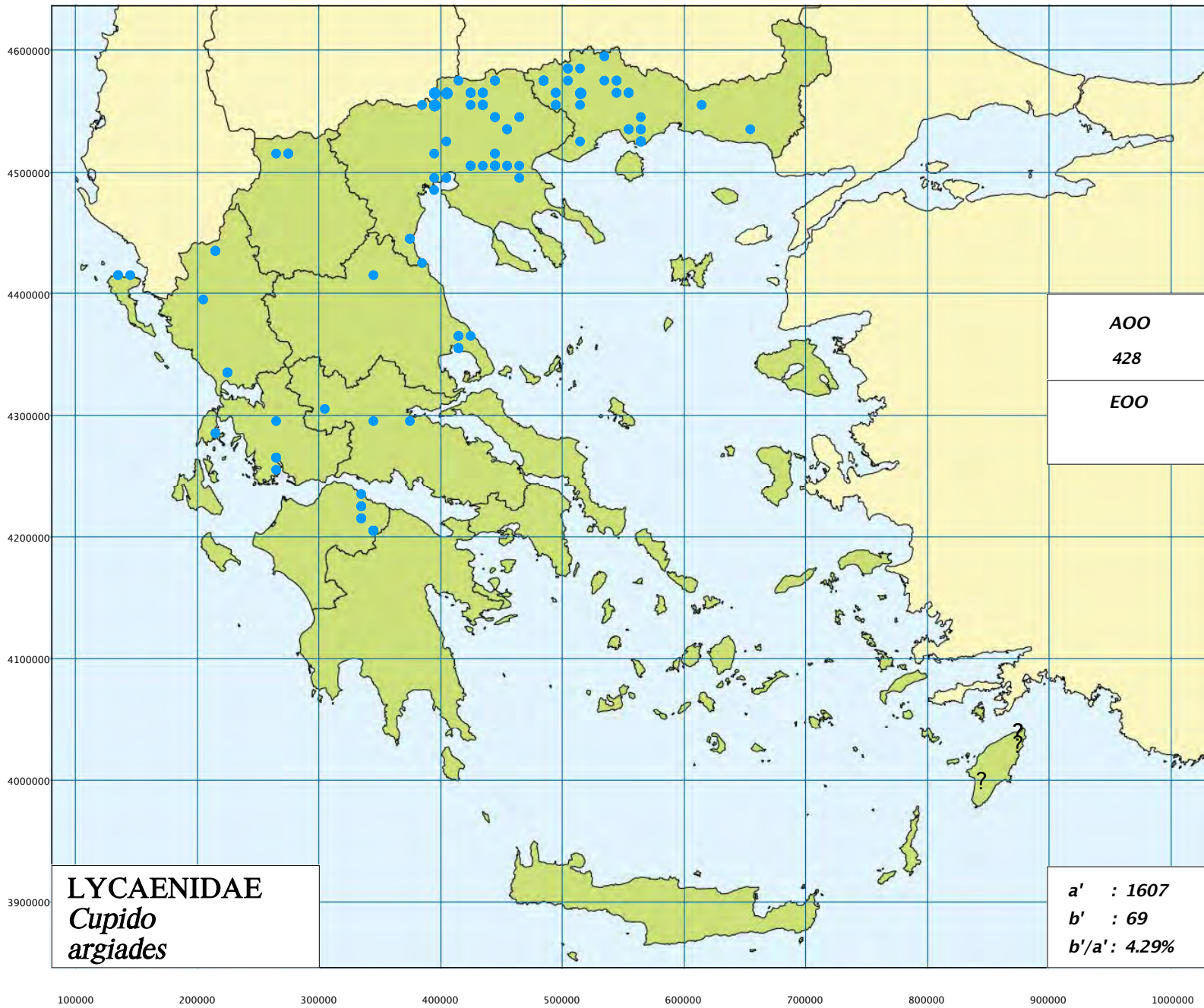


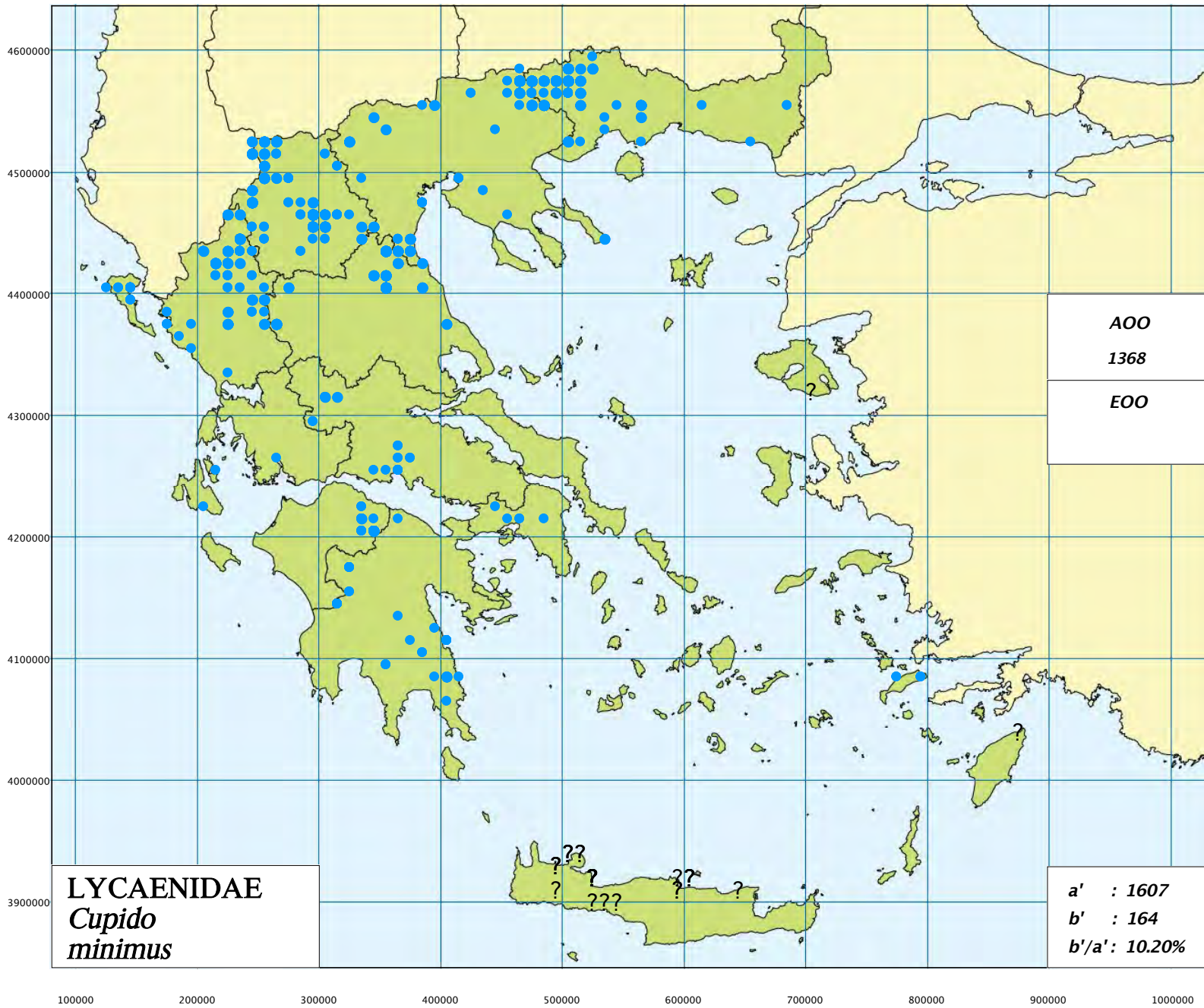




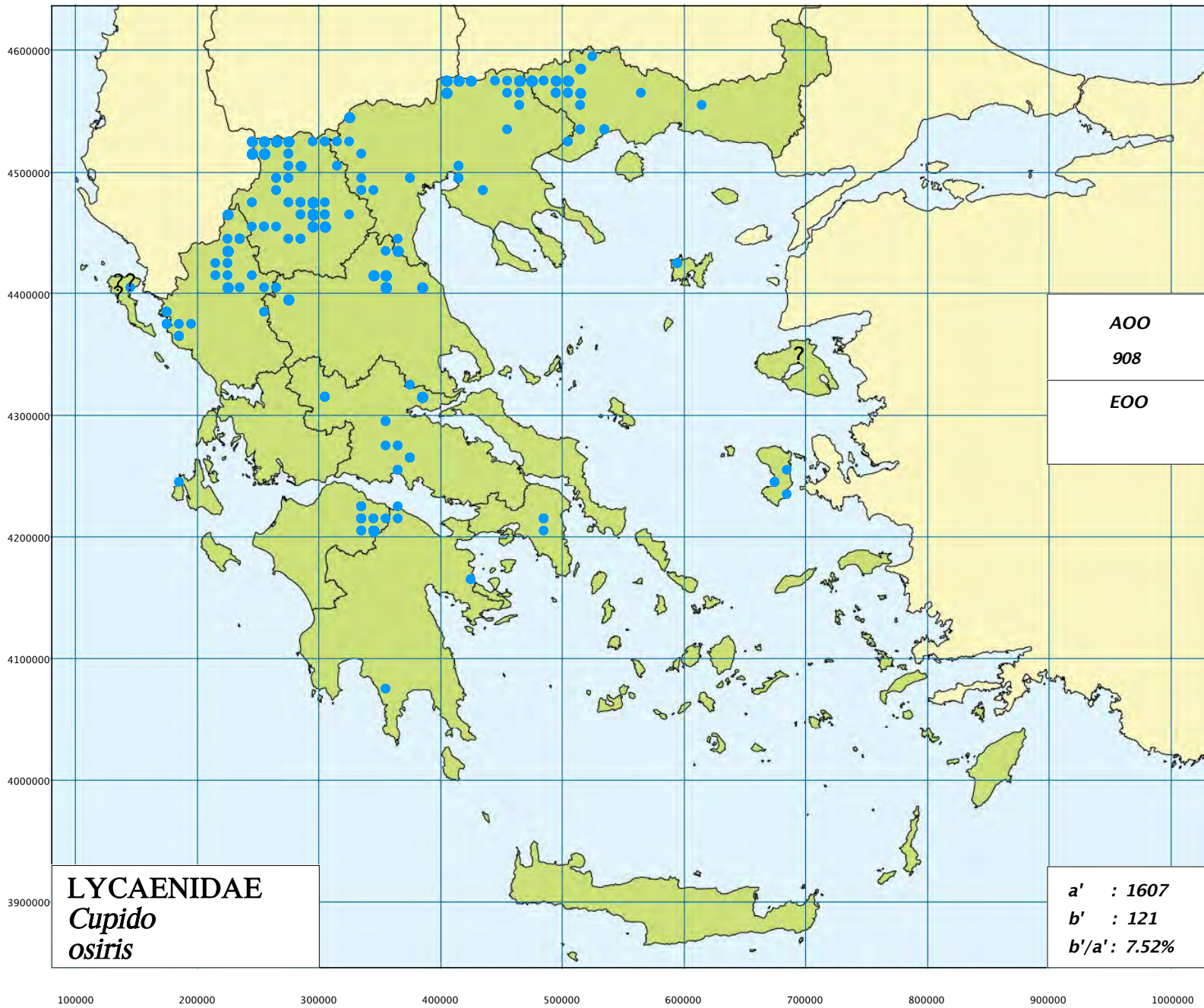


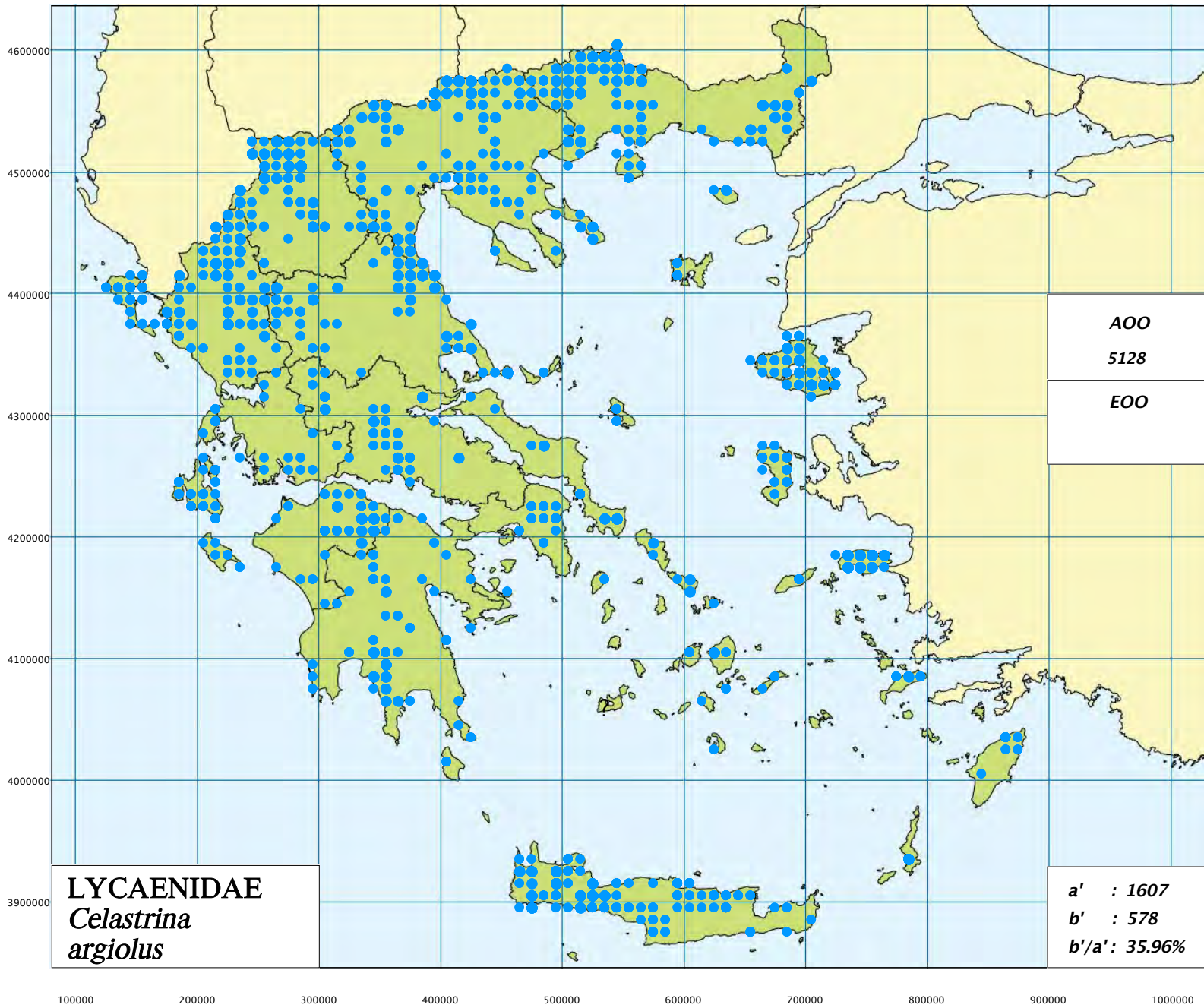




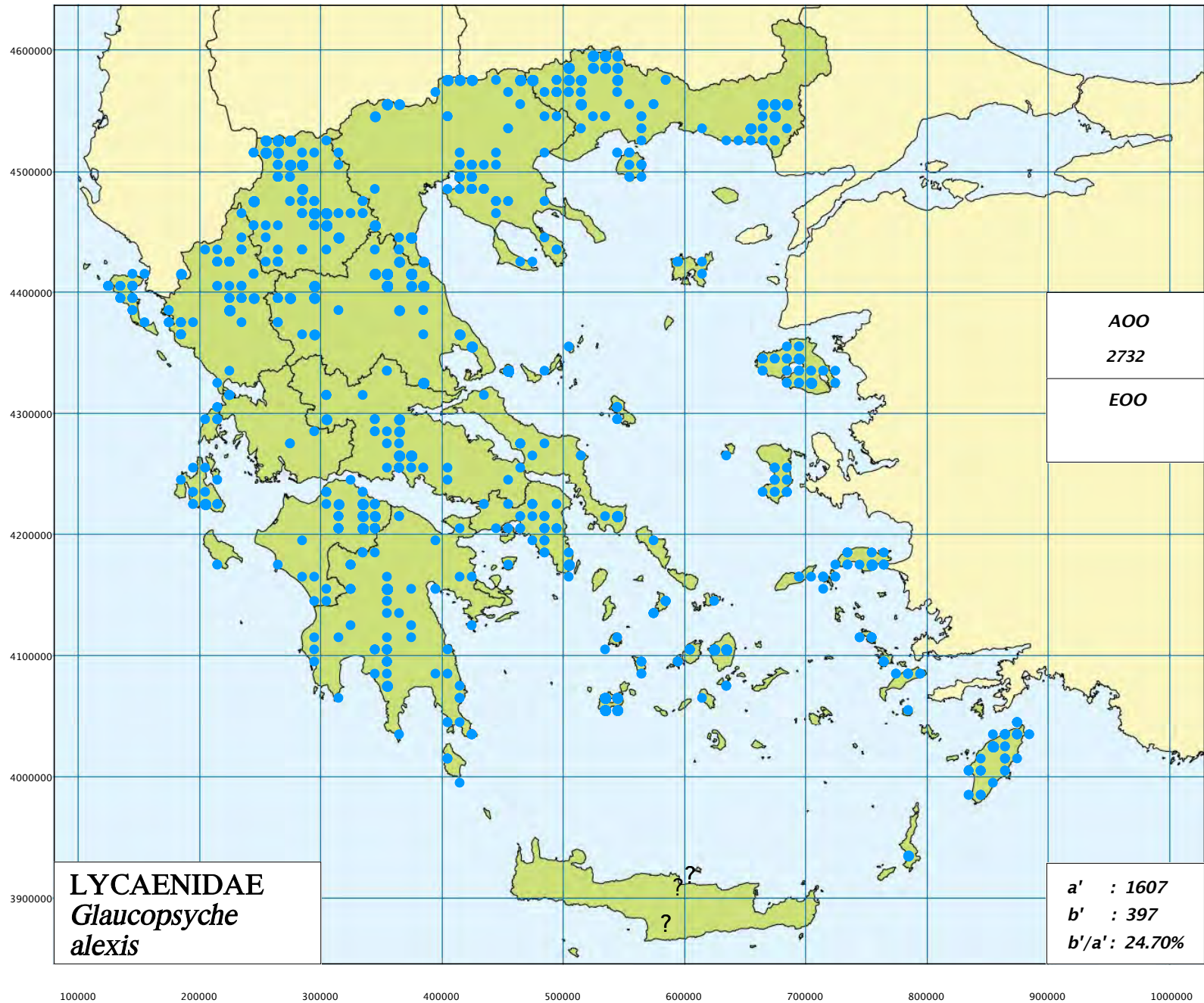


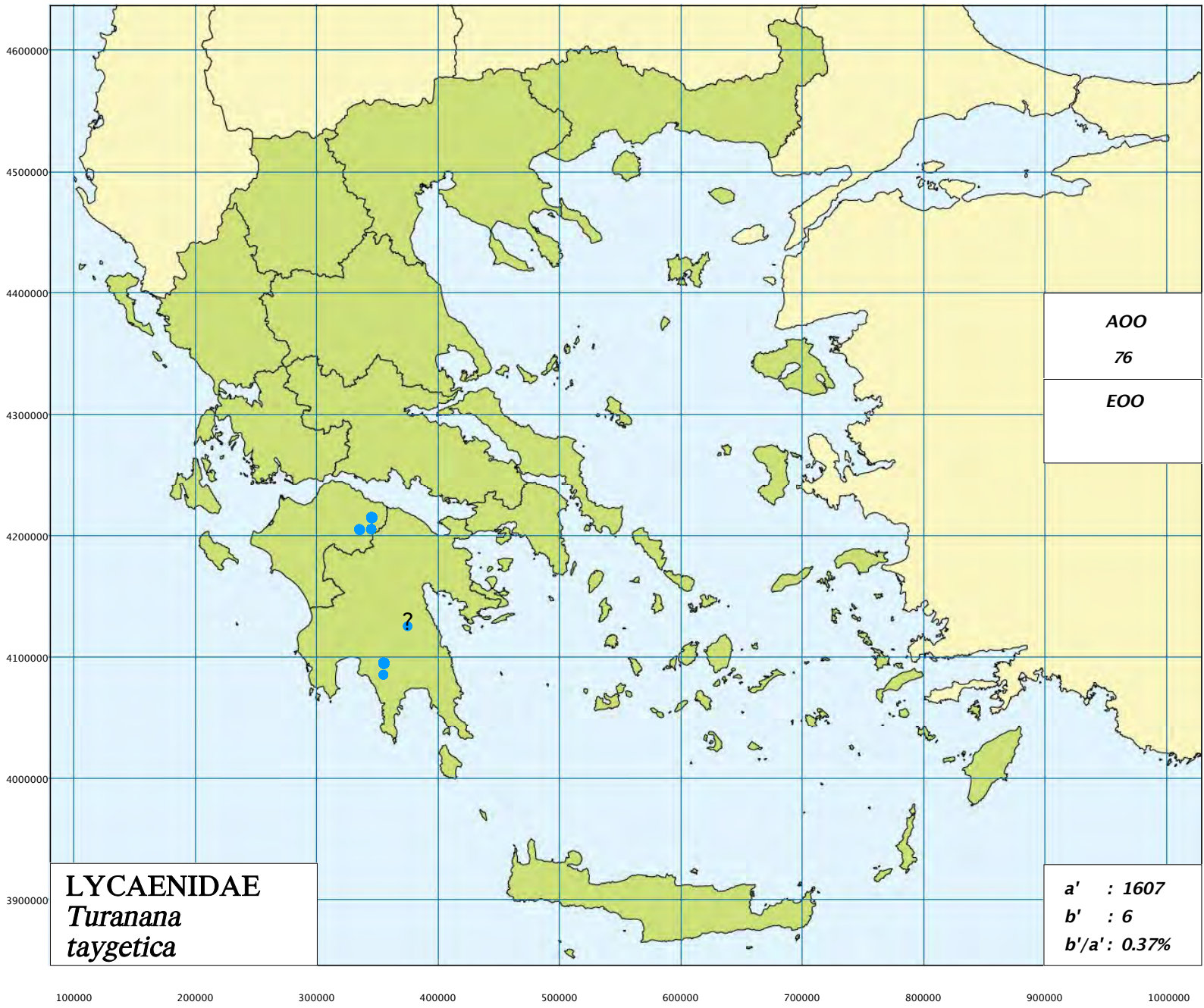




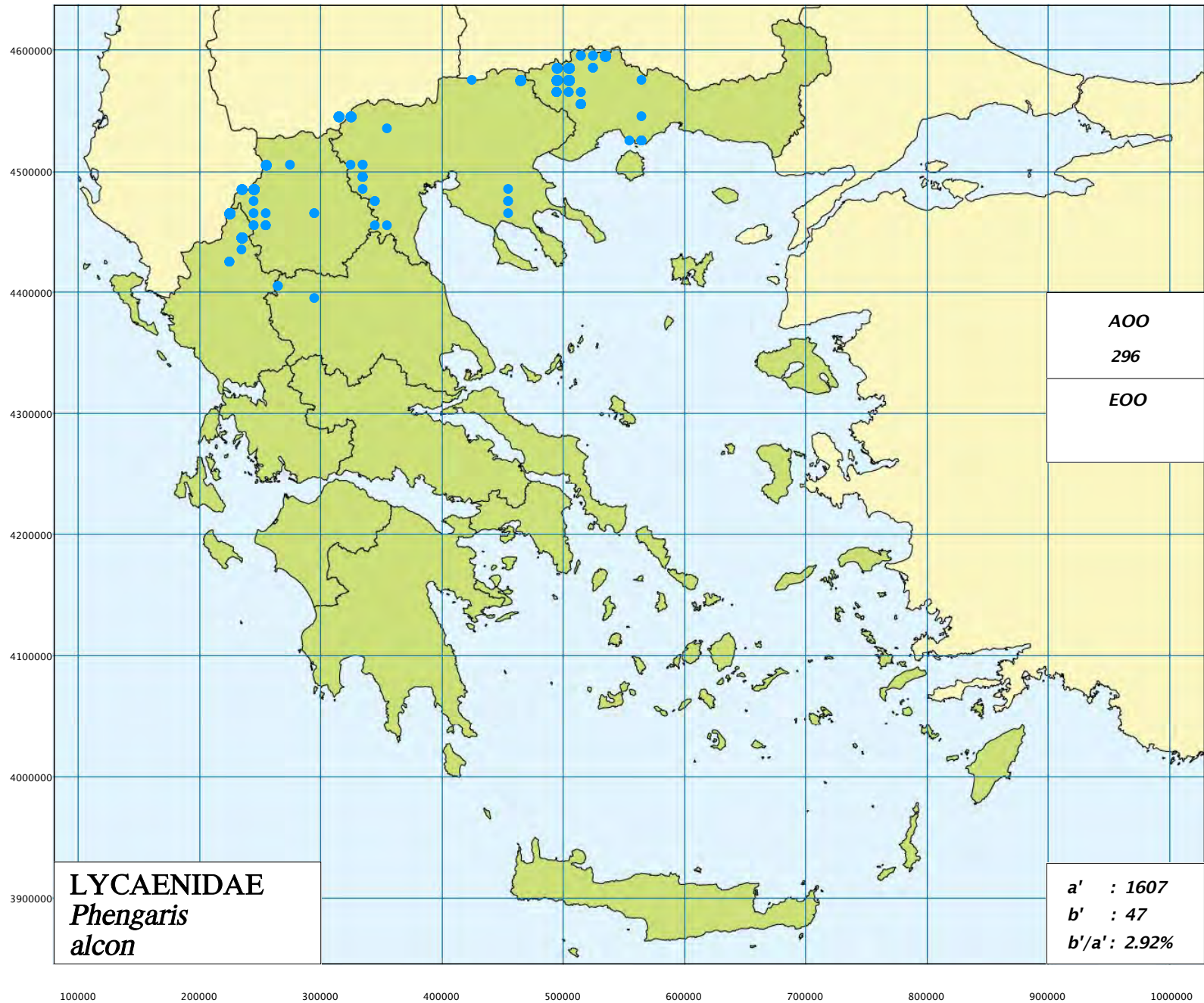


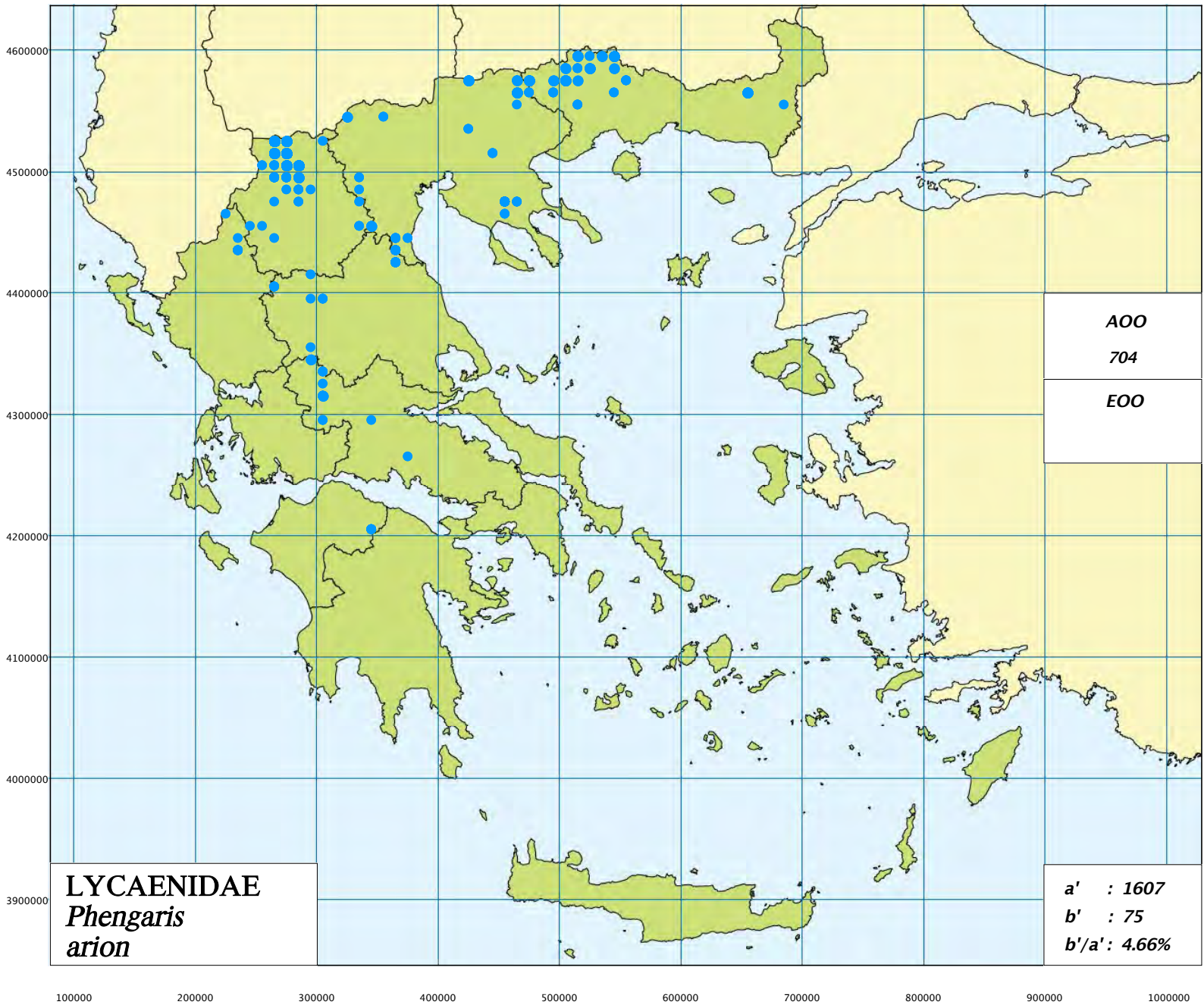




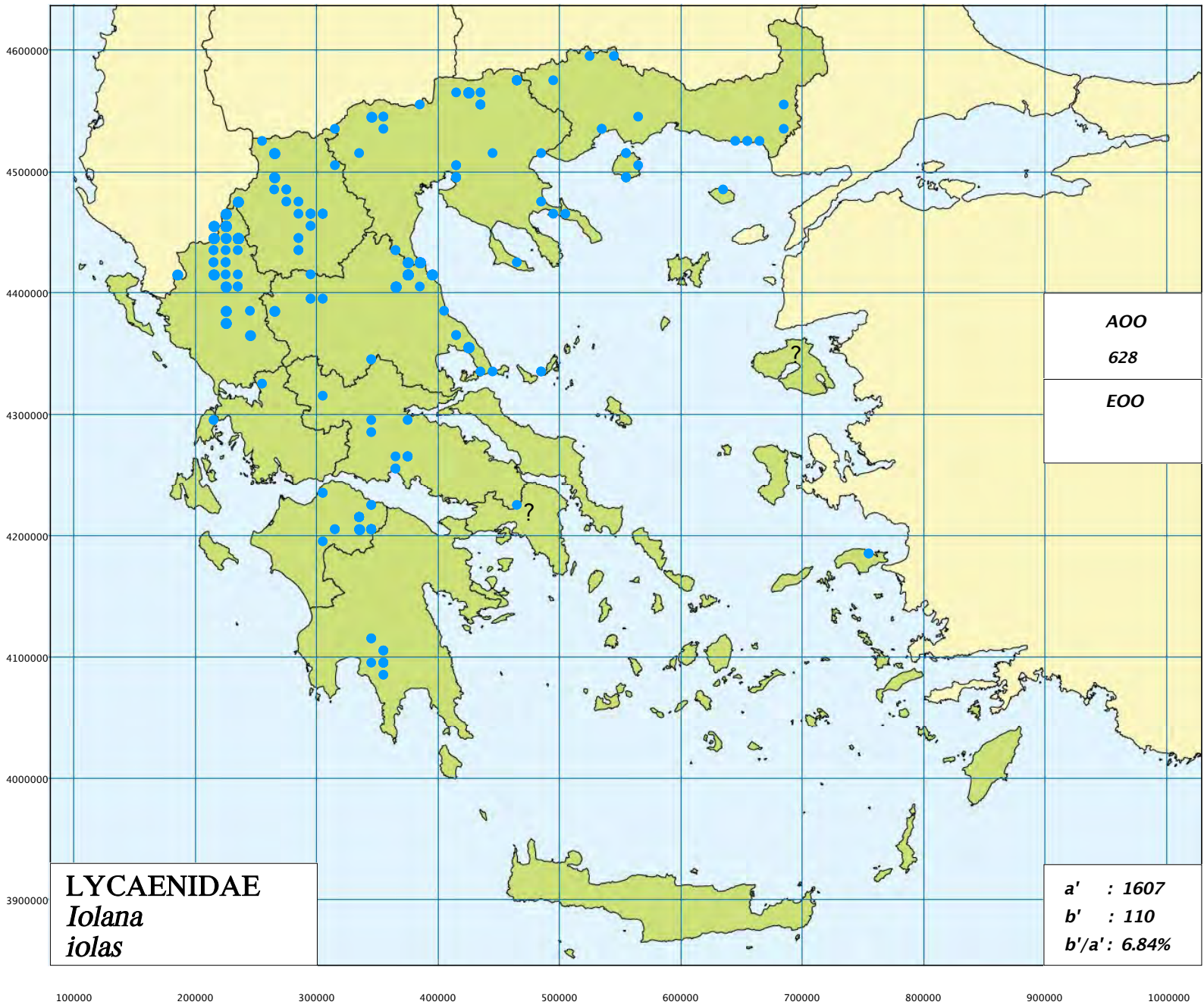


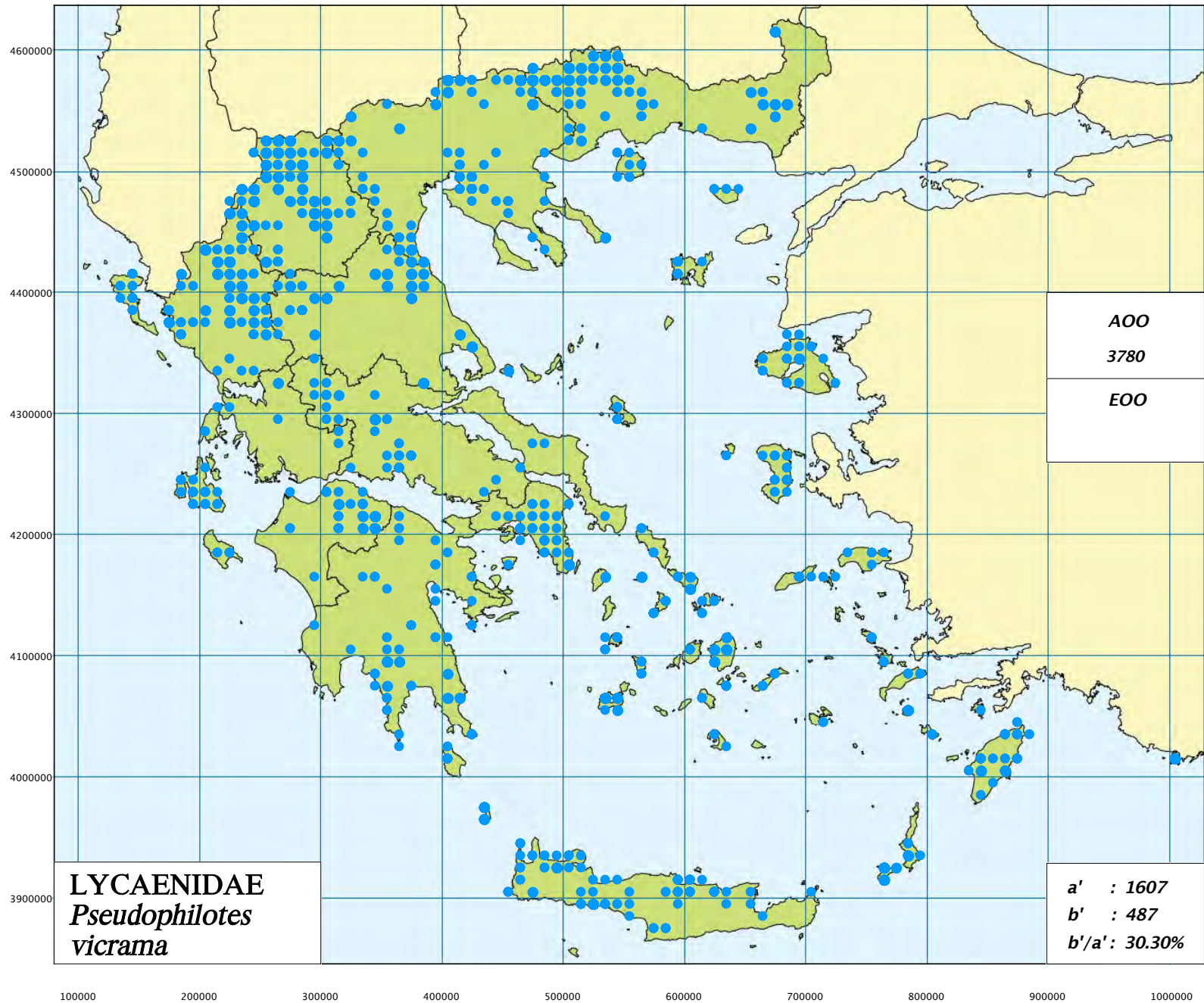




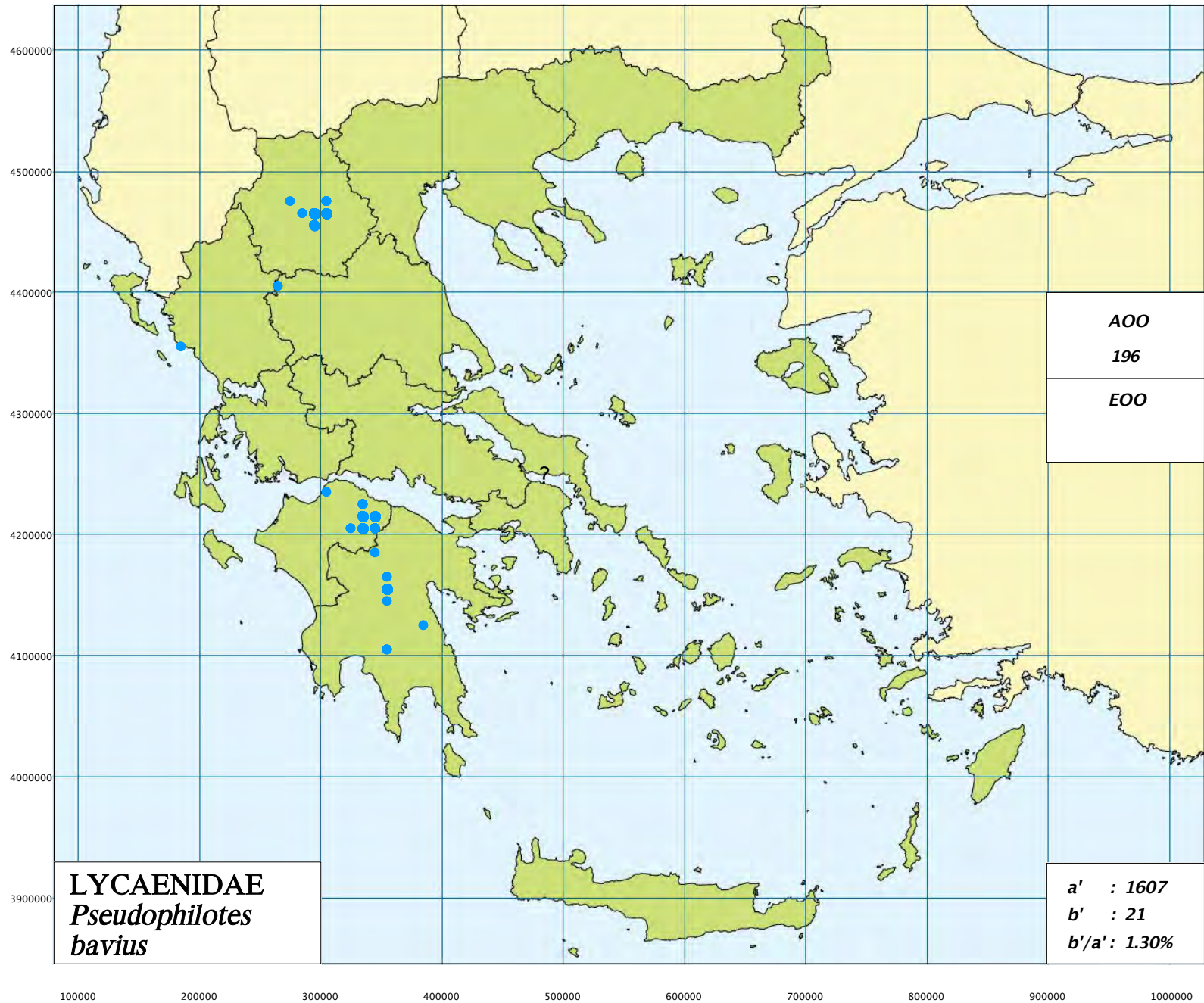


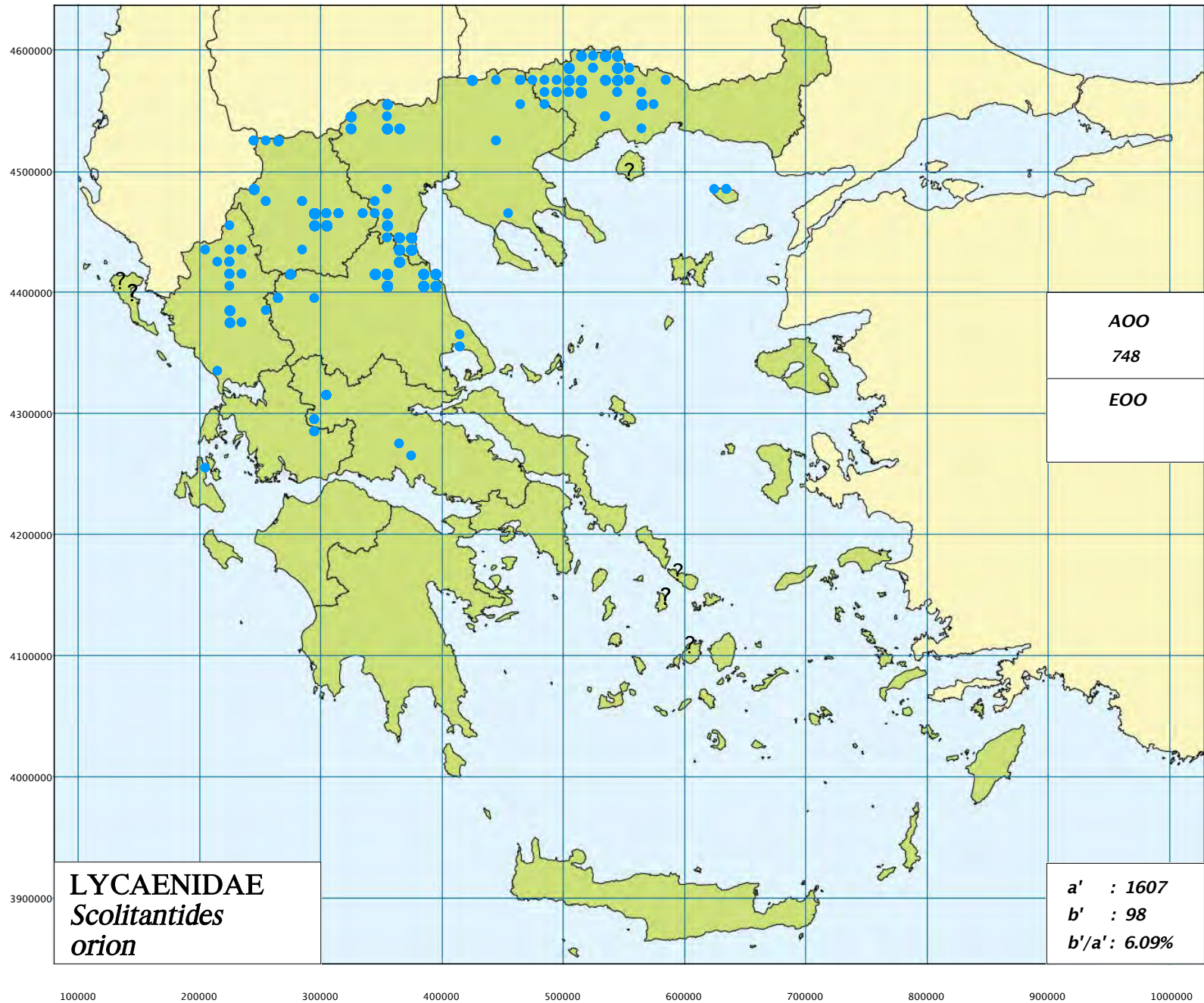






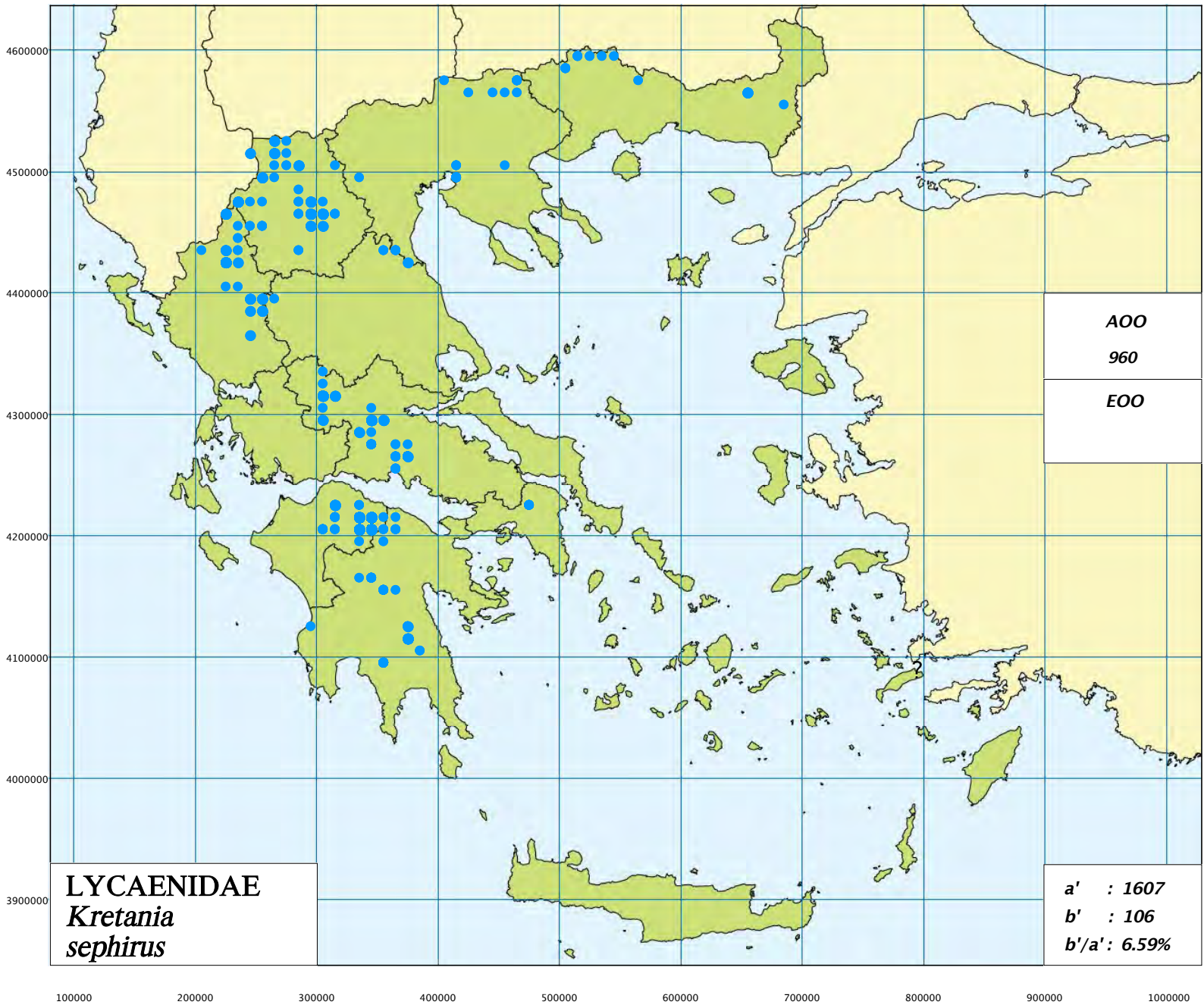




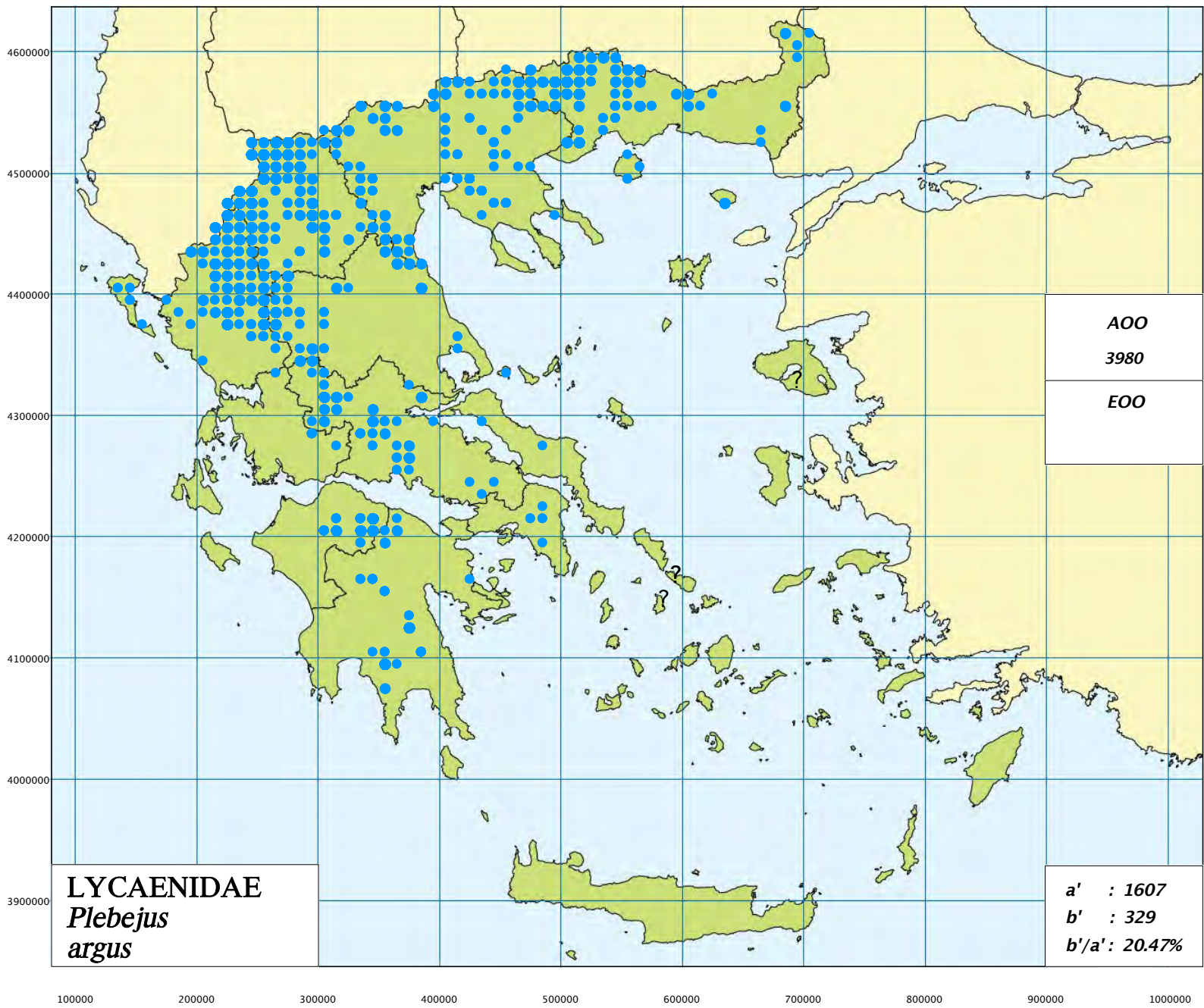




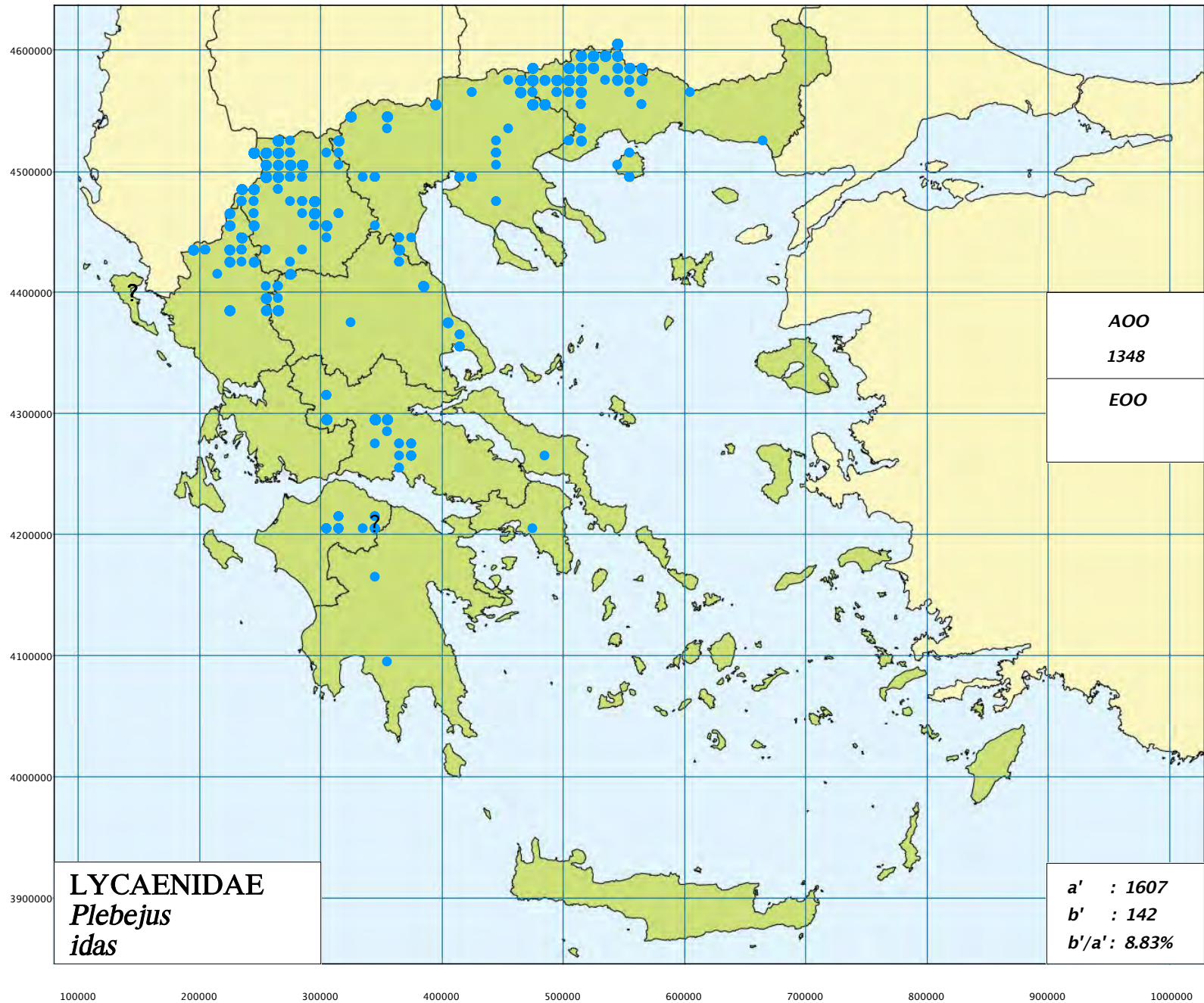






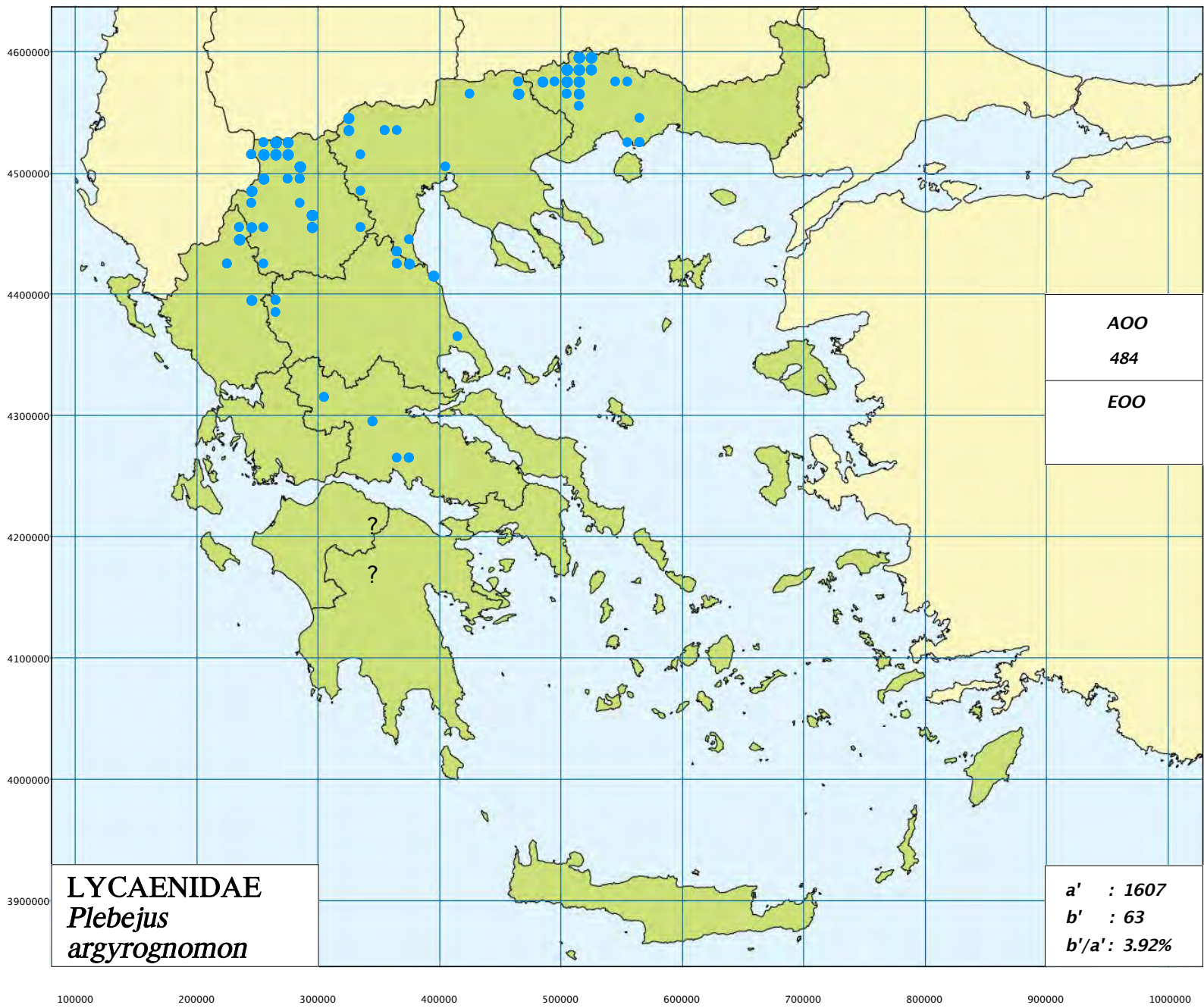


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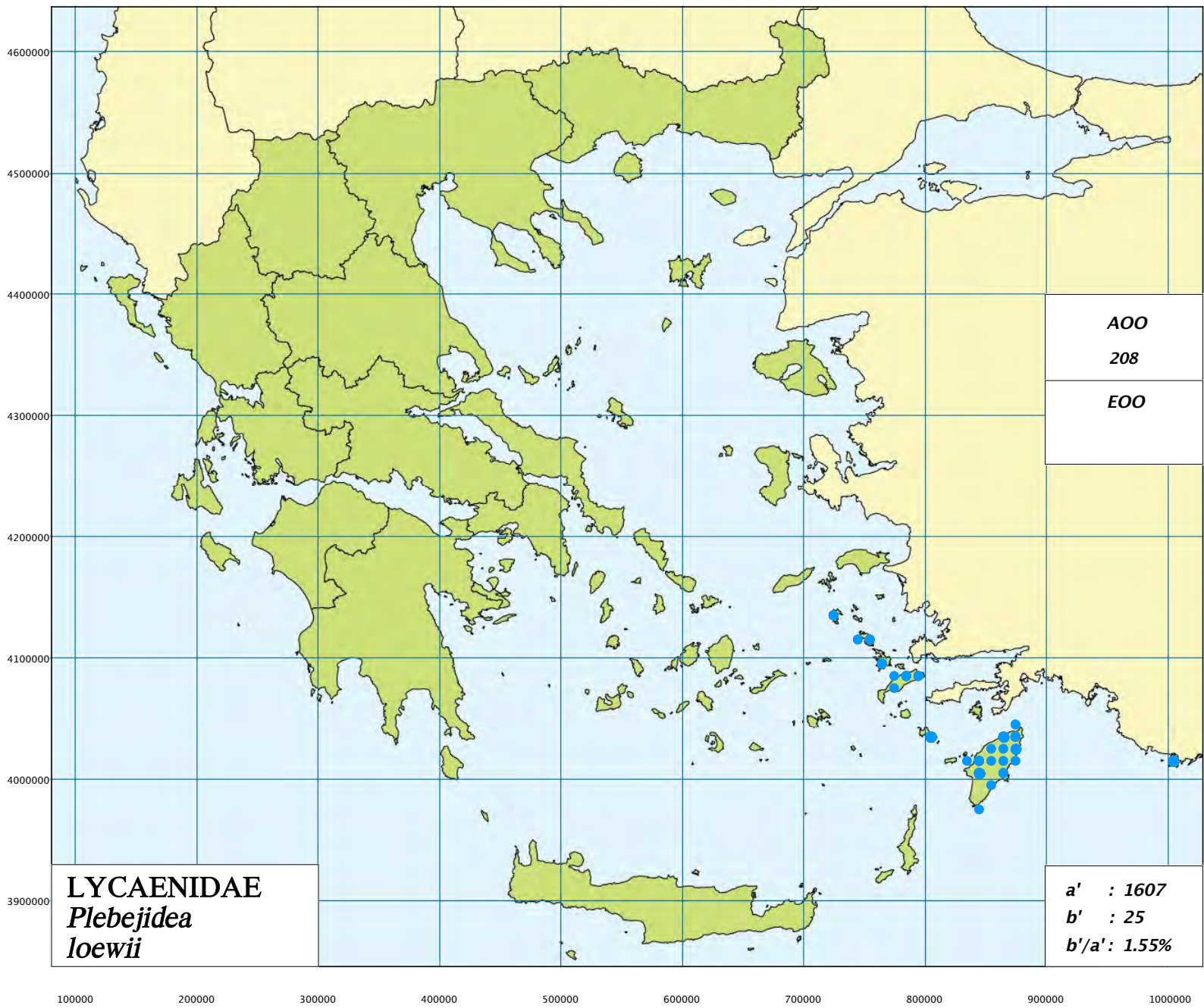


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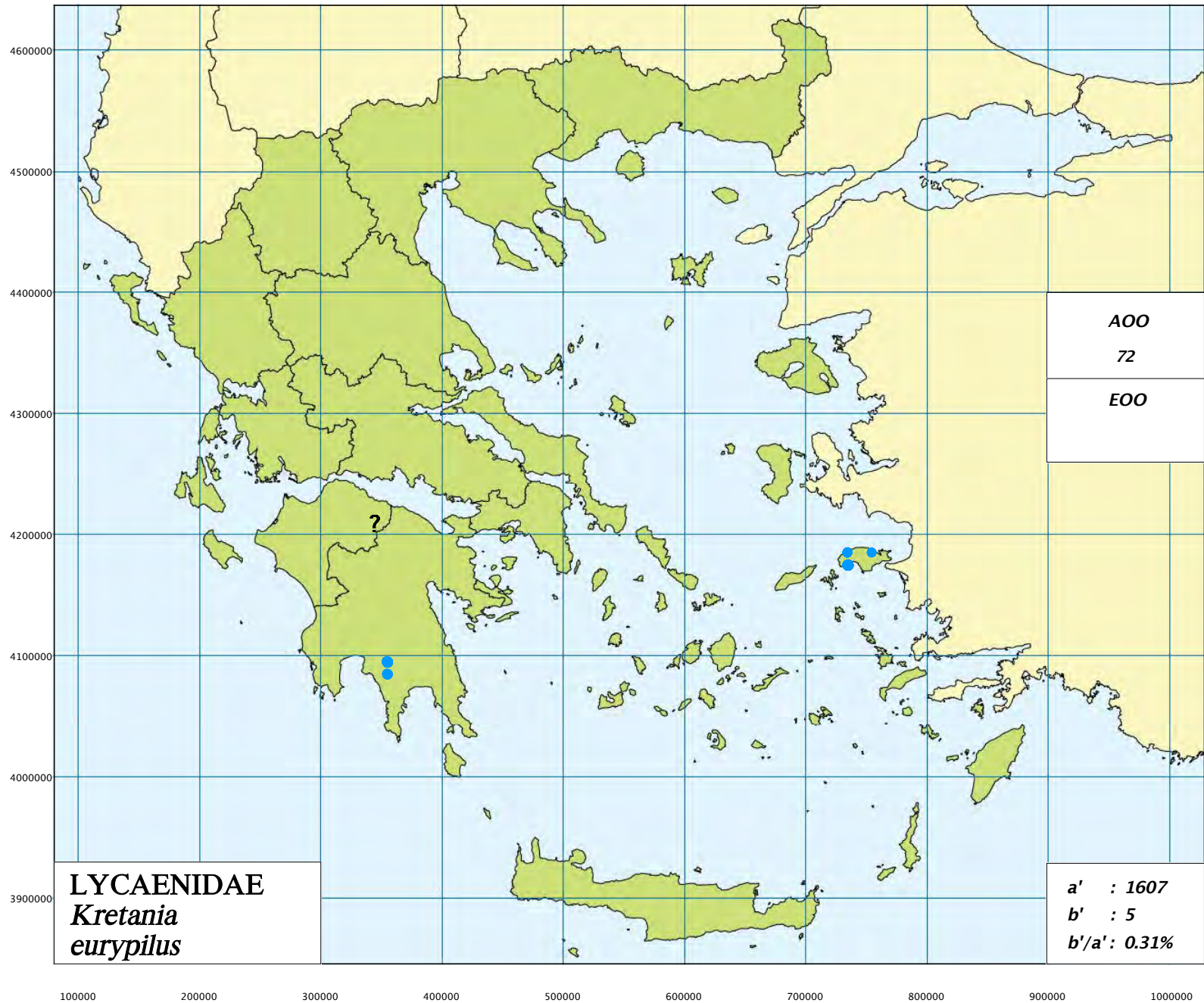
[http://www.pamperis.gr/PHOTOGRAPHS/Plebejus\\_argus\\_idas\\_argyrognomon\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Plebejus_argus_idas_argyrognomon_complex.html)



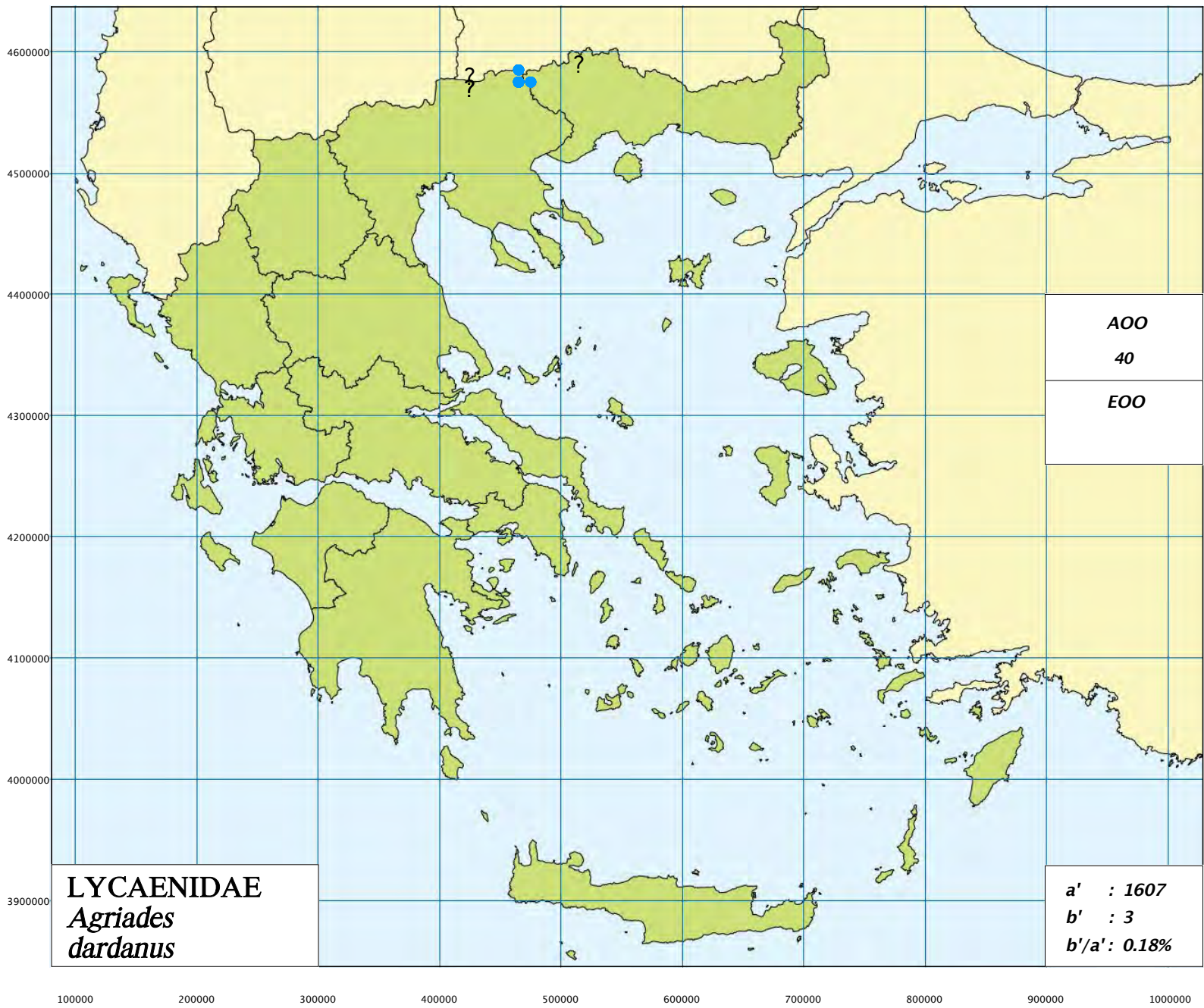


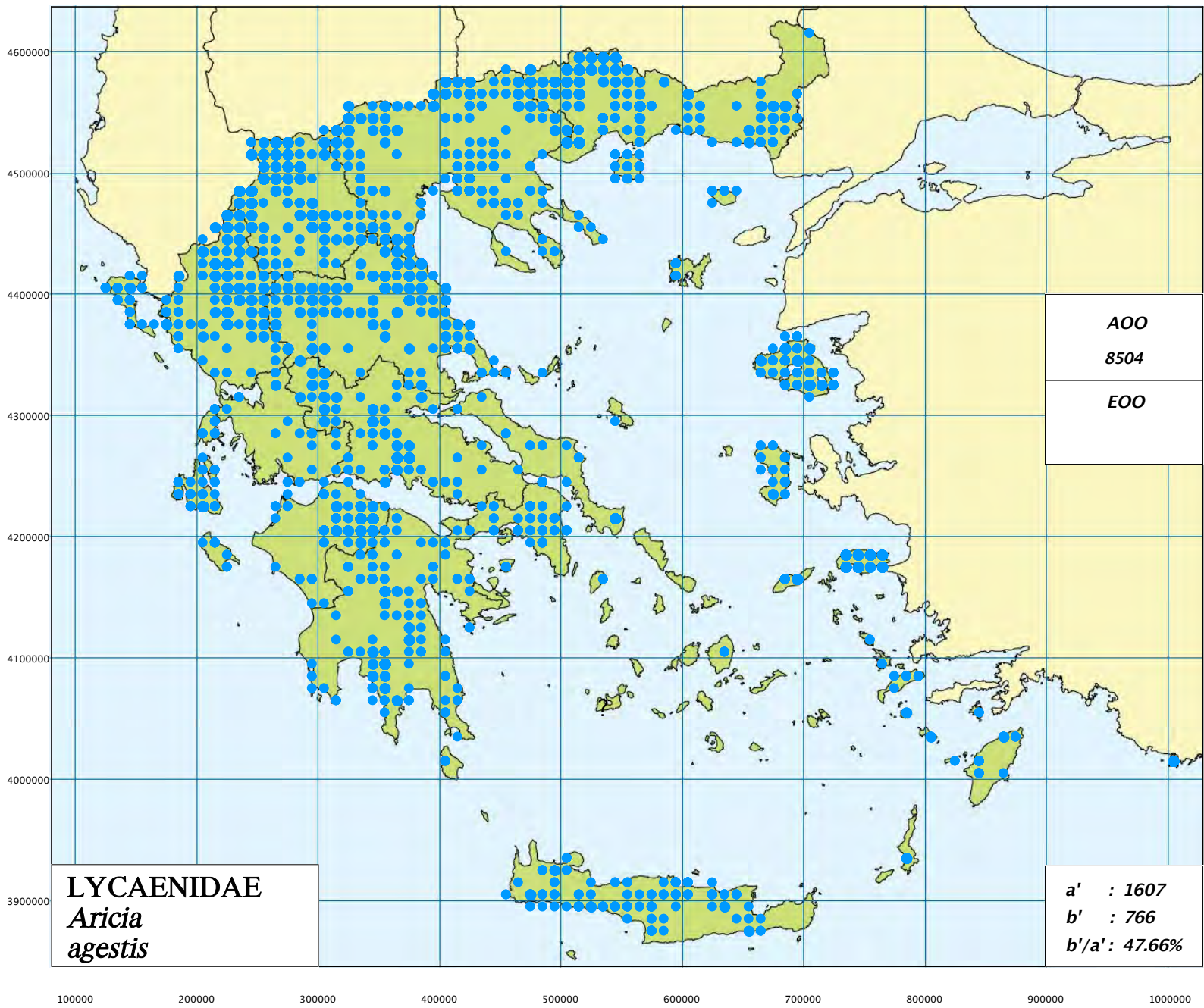
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE





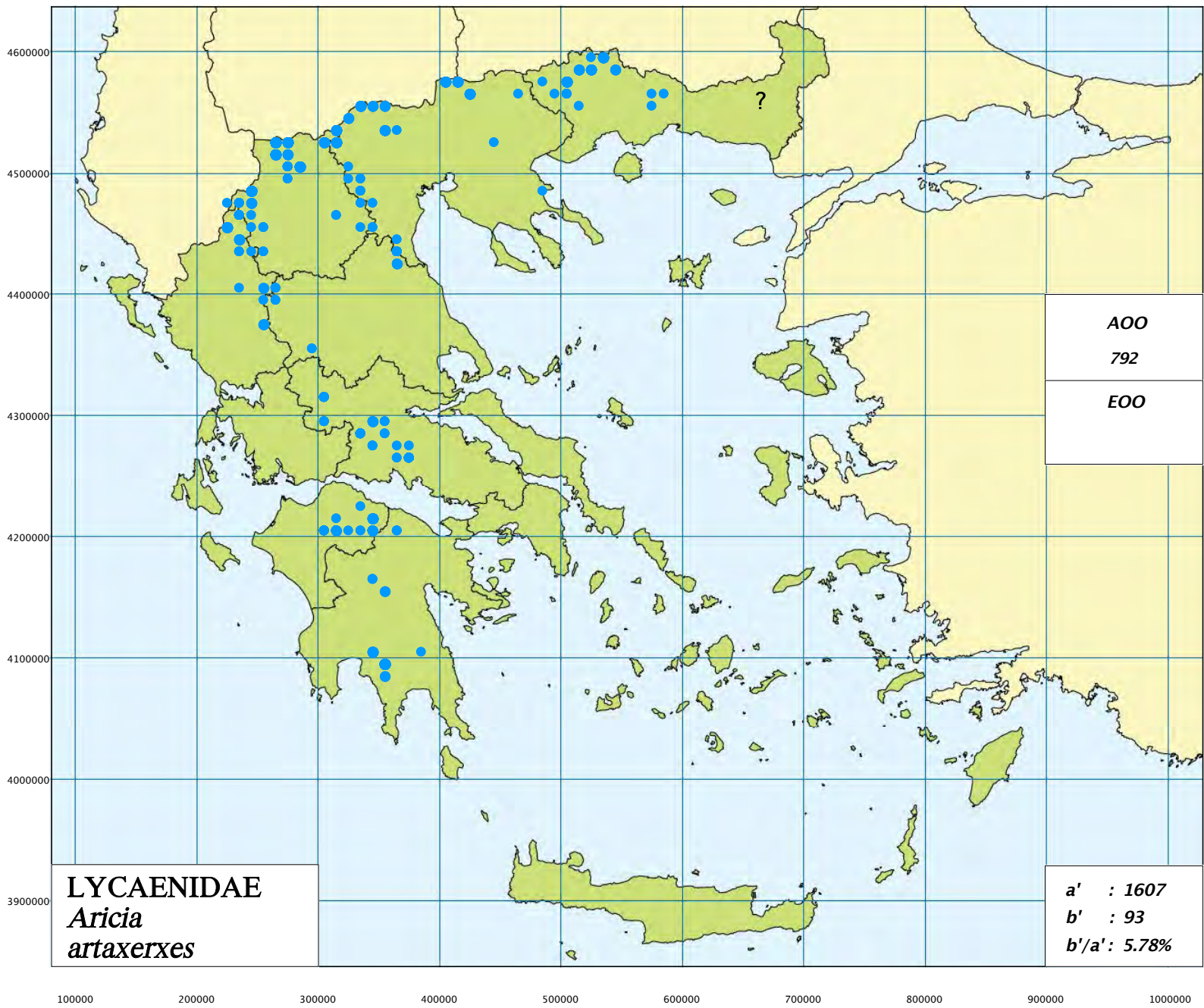




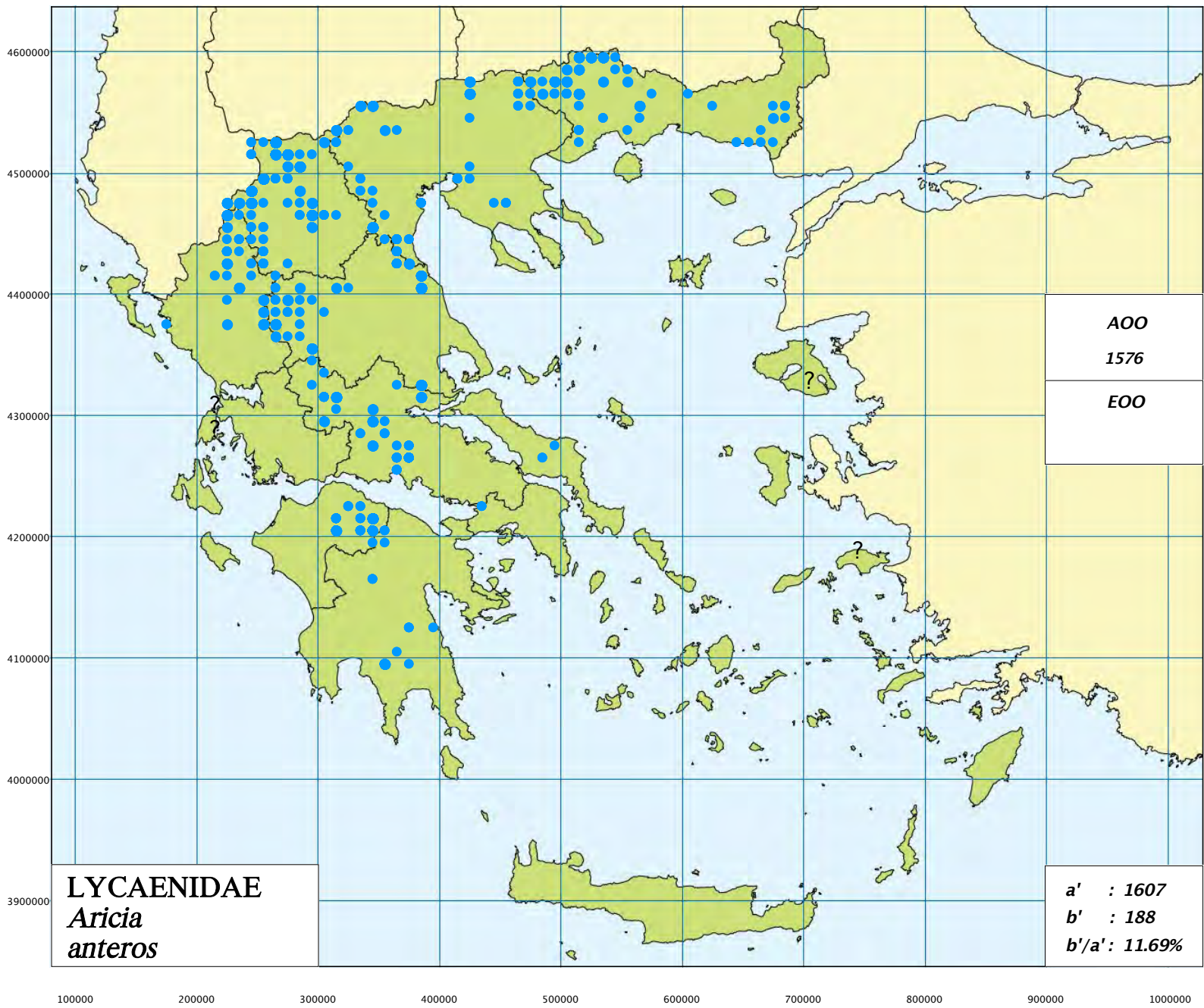


[http://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agemis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agemis,_Aricia_artaxerxes,_Aricia_anteros.html)





[http://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agestis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agestis,_Aricia_artaxerxes,_Aricia_anteros.html)



**AOO**  
**1576**  
**EOO**

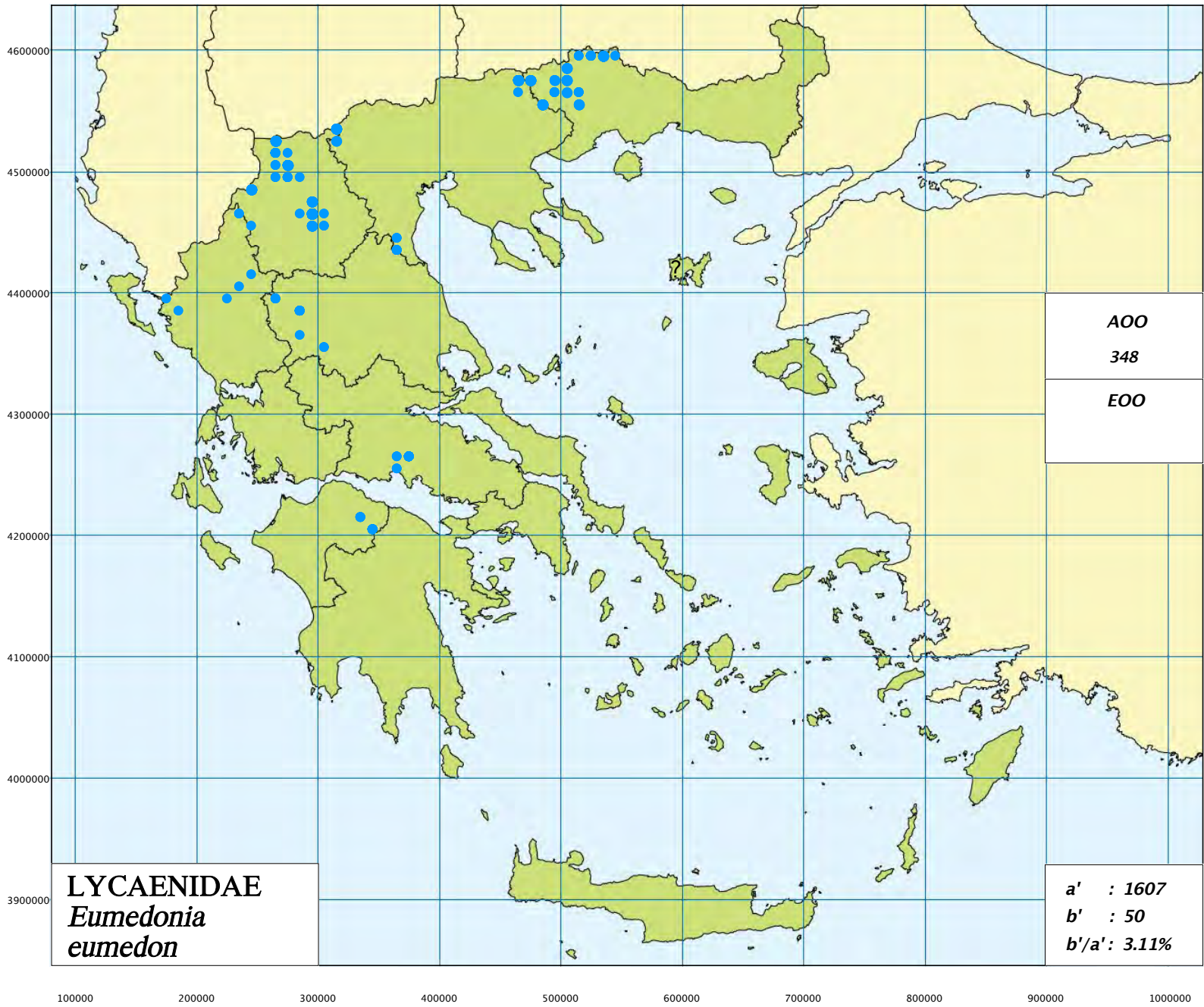
**LYCAENIDAE**  
*Aricia*  
*anteros*

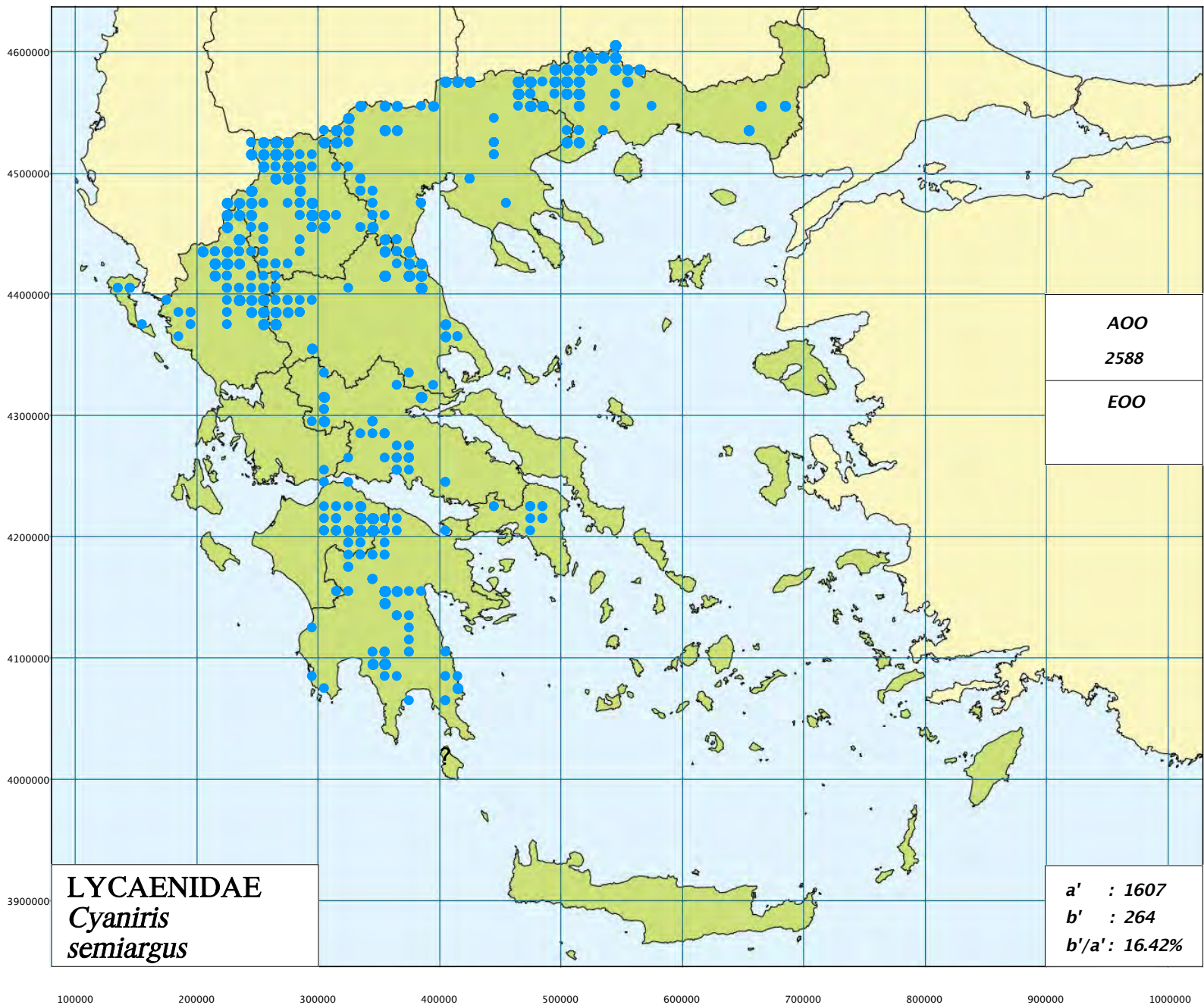
**a' : 1607**  
**b' : 188**  
**b'/a' : 11.69%**

100000 200000 300000 400000 500000 600000 700000 800000 900000 1000000

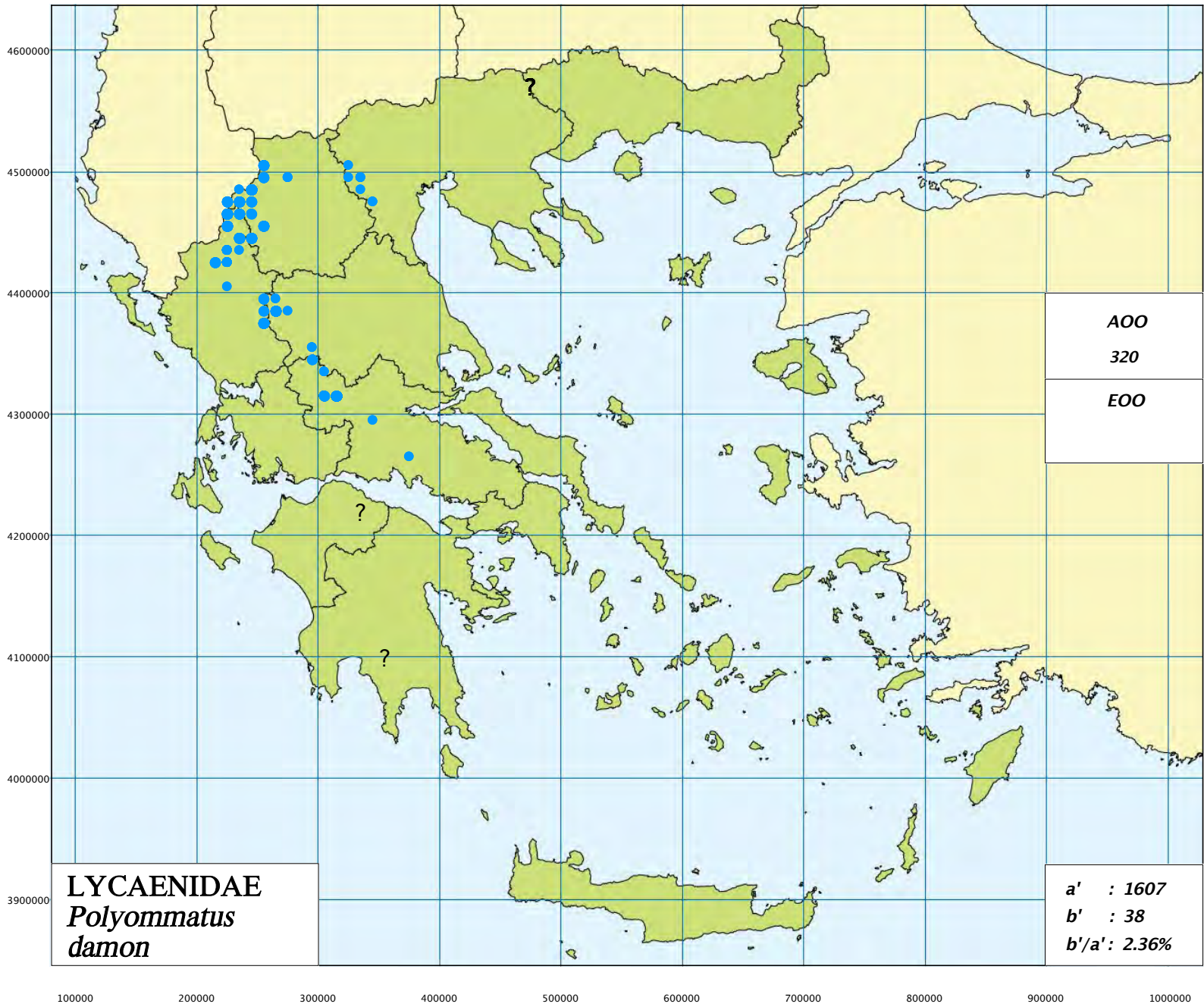
[http://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agestis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agestis,_Aricia_artaxerxes,_Aricia_anteros.html)

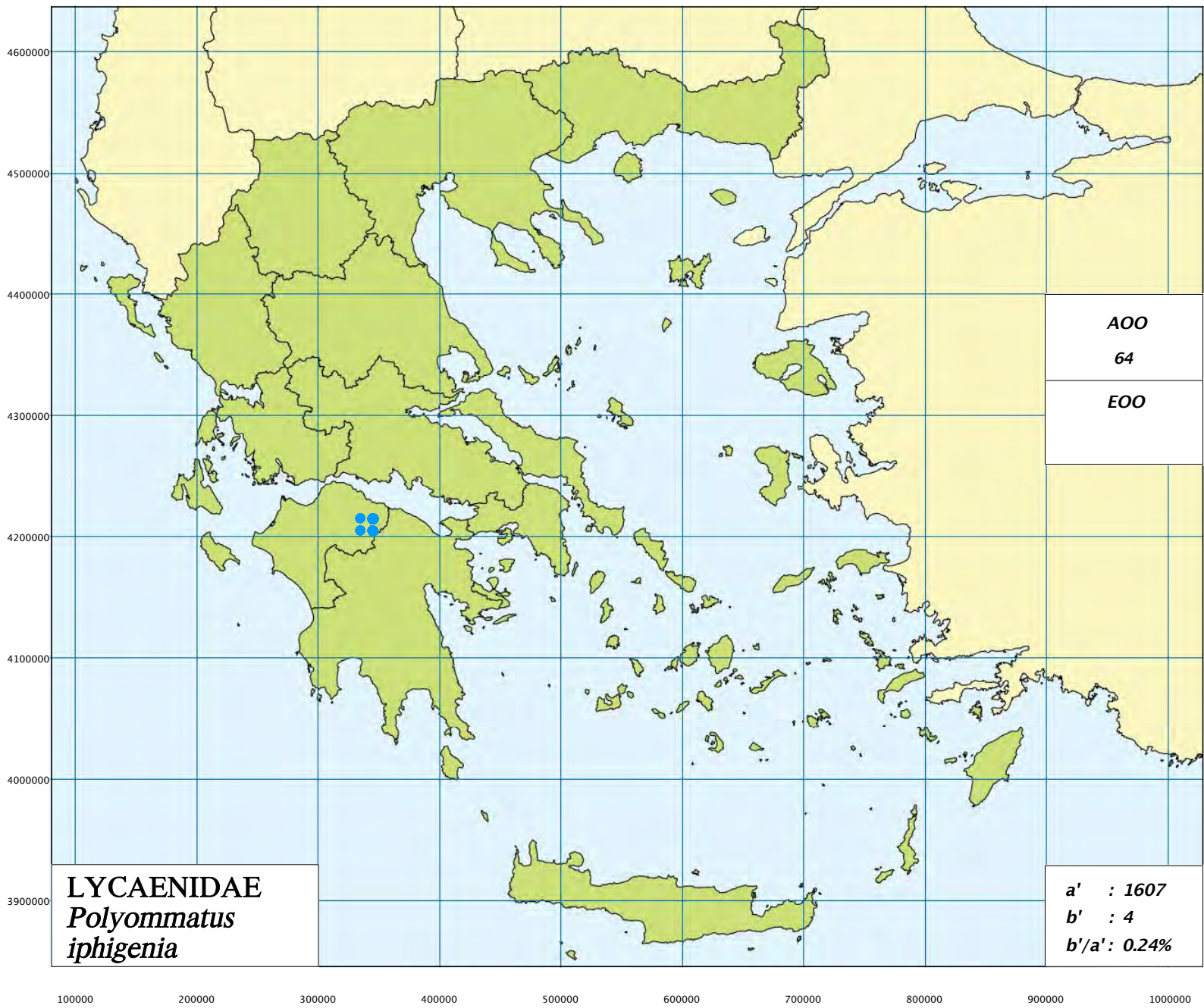




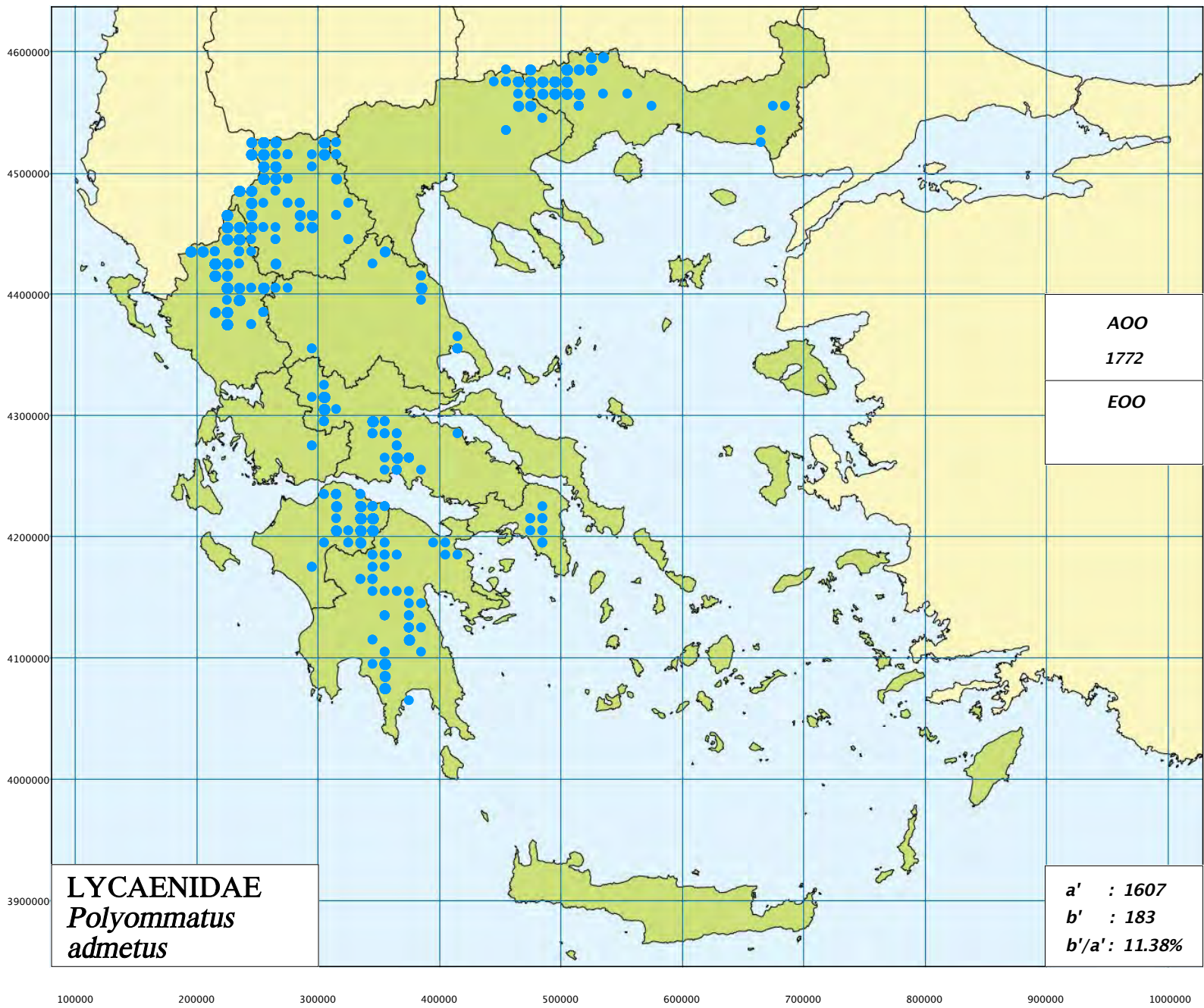


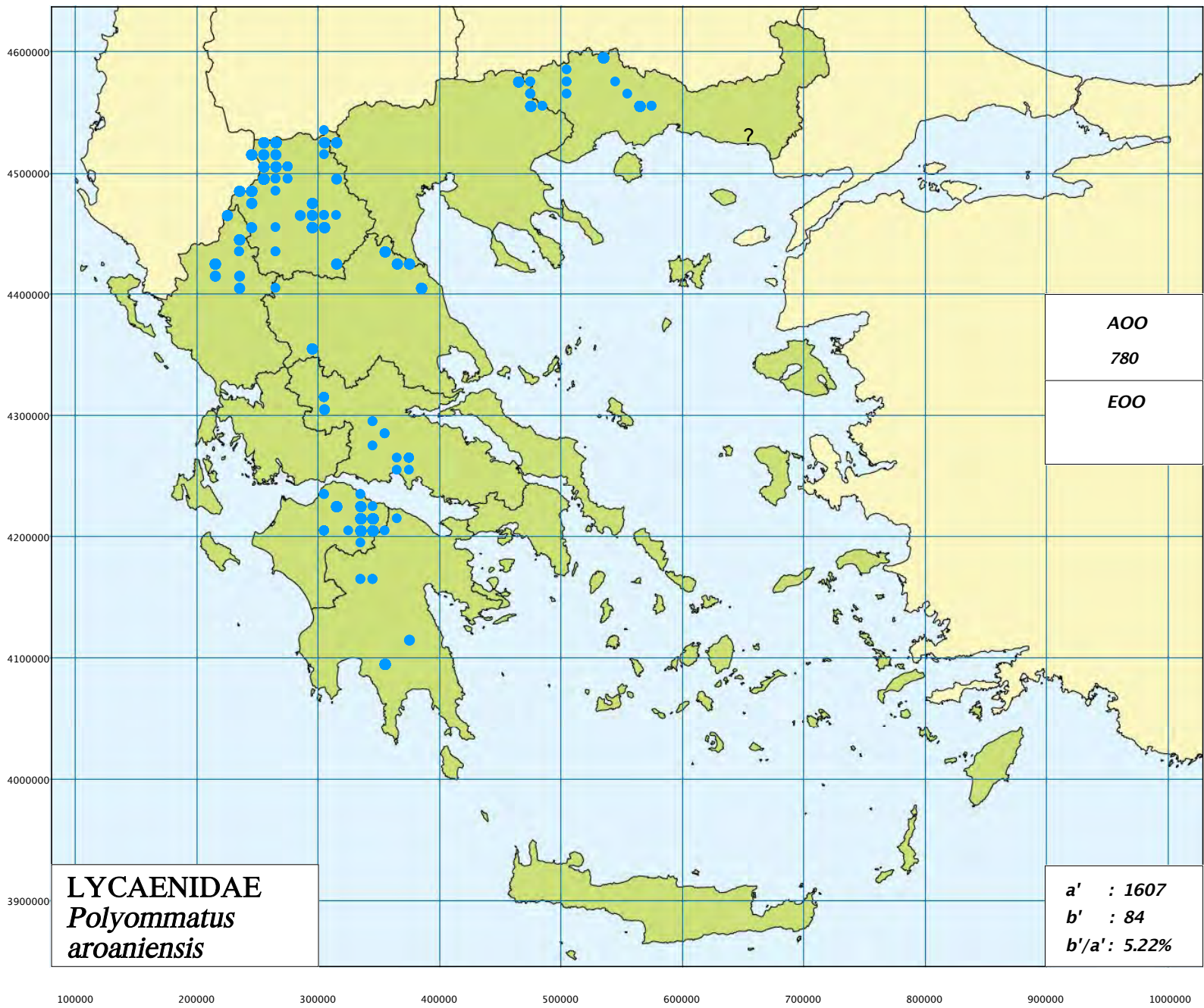




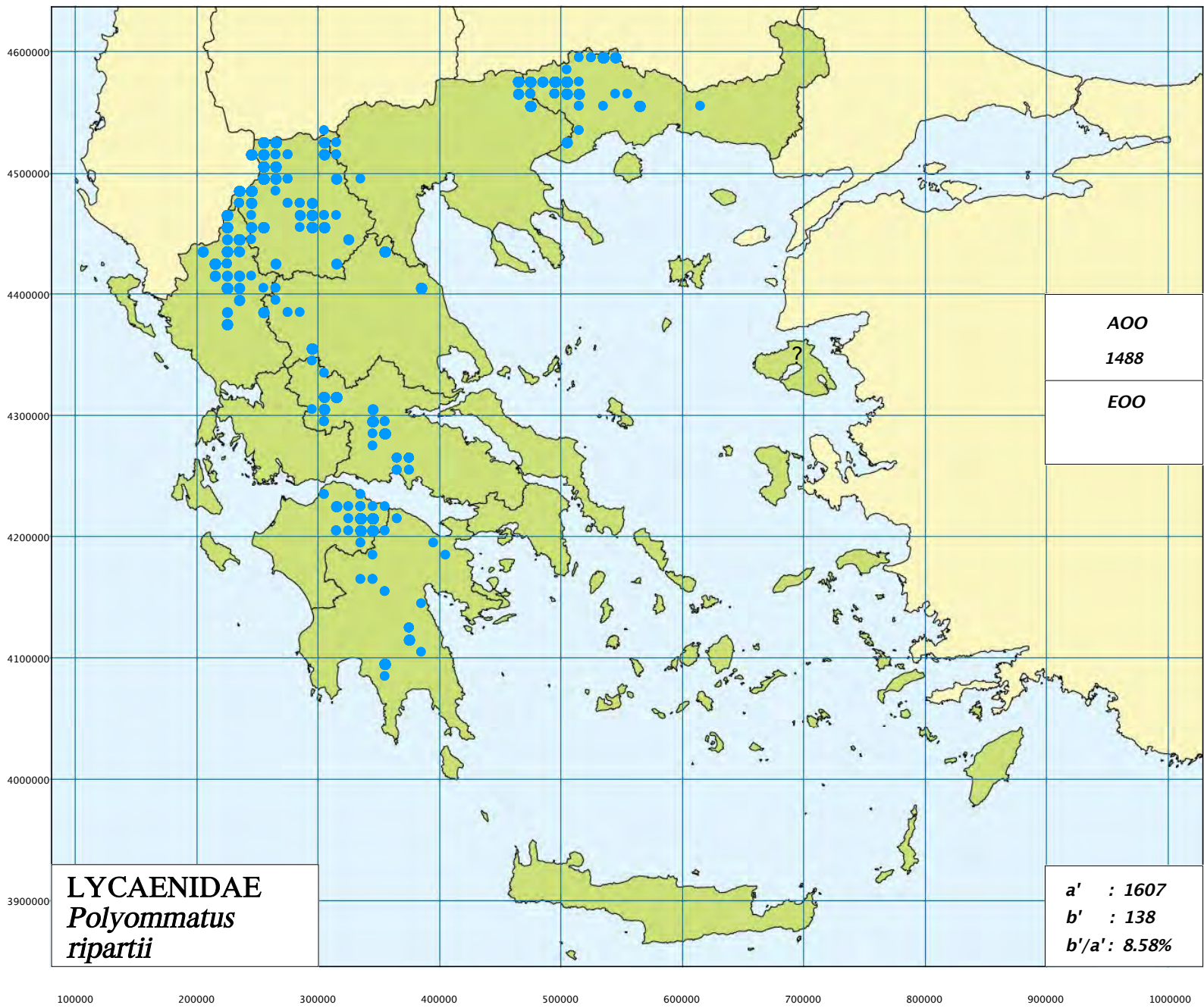












**LYCAENIDAE**  
*Polyommatus ripartii*

**AOO**  
**1488**

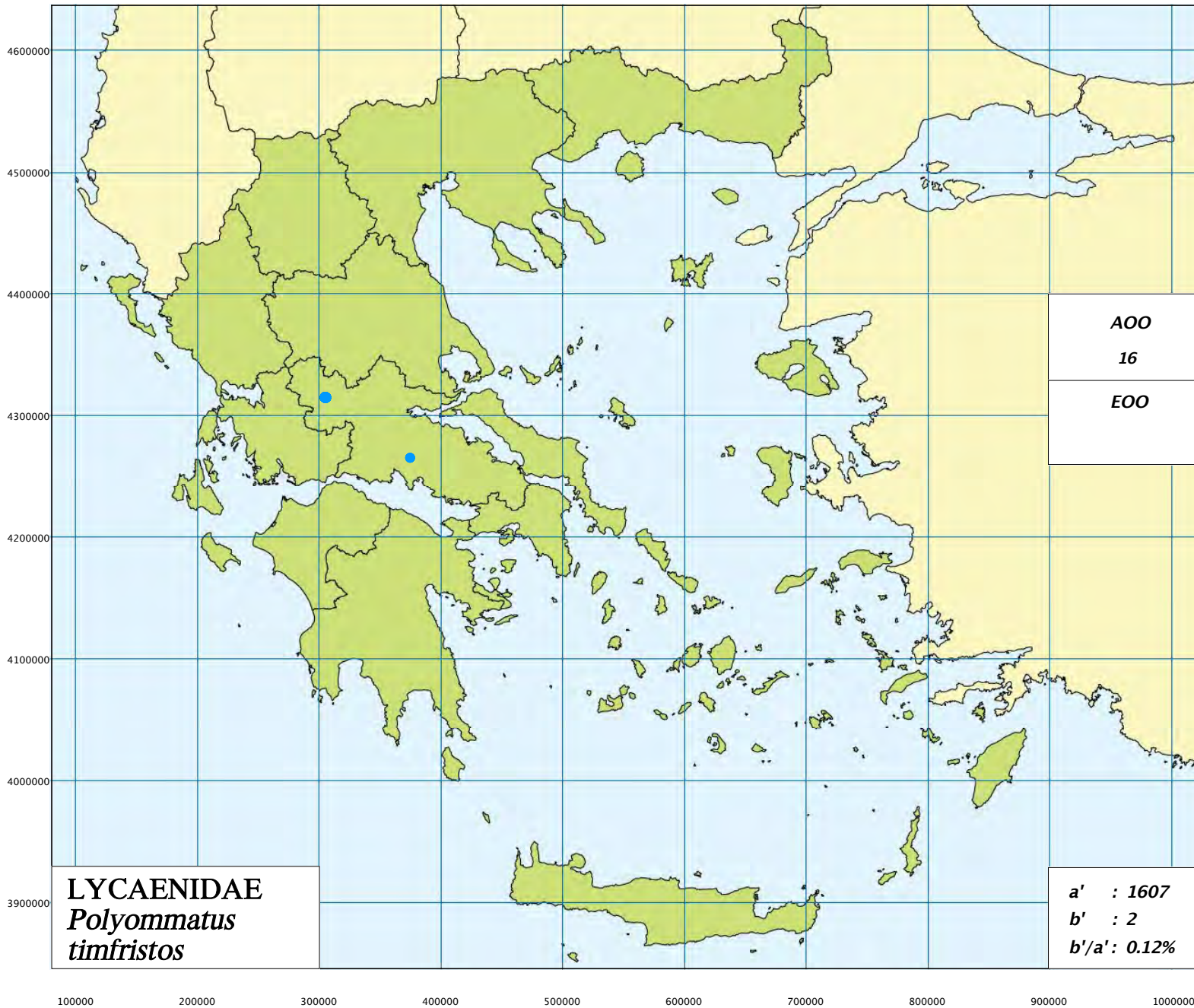
**EOO**

**a' : 1607**  
**b' : 138**  
**b'/a' : 8.58%**

As published by 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 new endemic species *Polyommatus timfristos* was found in Mt Paranssos and Mt Tymfristos, very similar (in external characters) to *P. ripartii*. All records of *P. ripartii*, in this map, should be revised because of the possibility that new cryptic species is hidden.

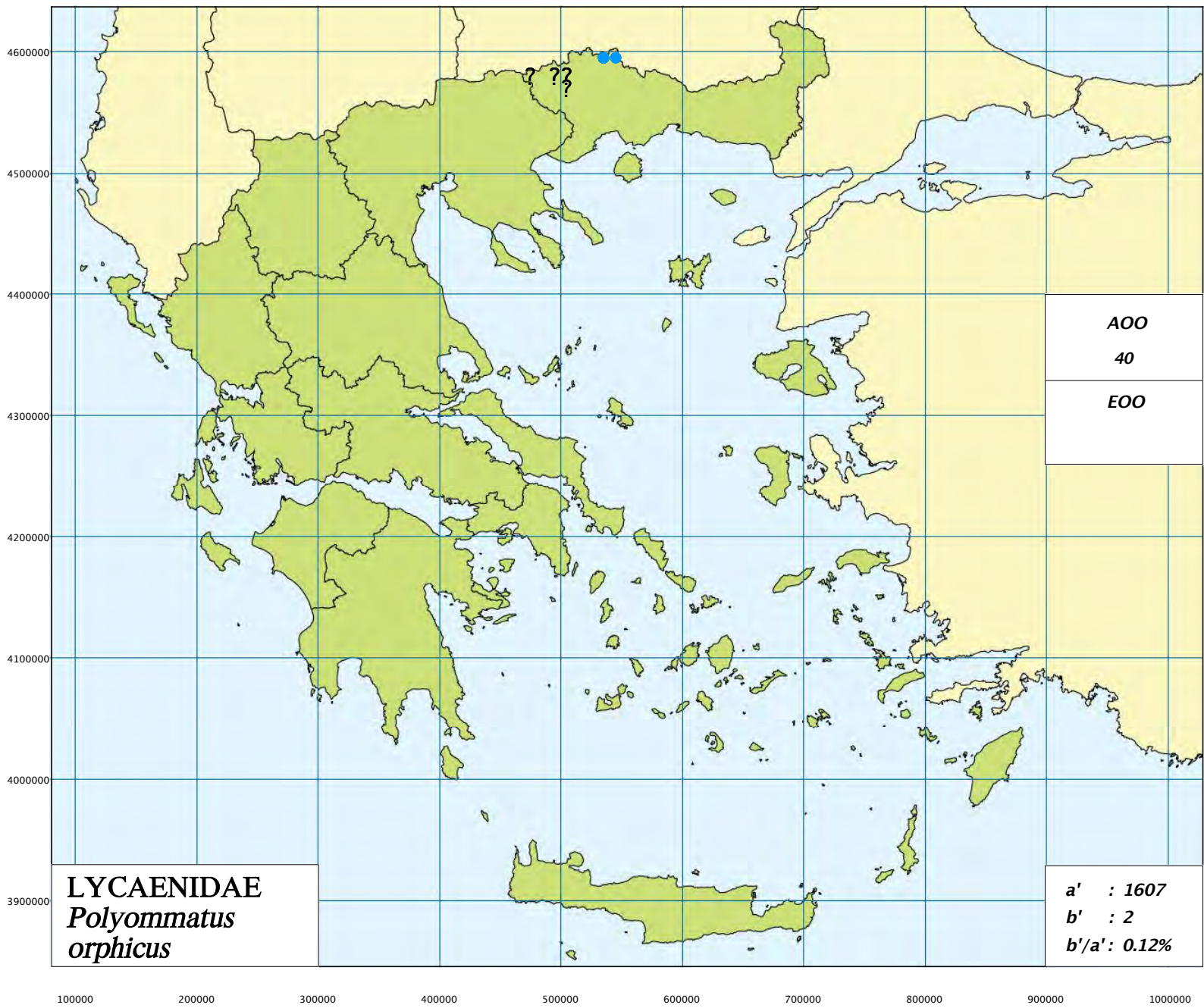
Όπως δημοσιεύθηκε στο VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>, το νέο είδος *Polyommatus timfristos* βρέθηκε στα βουνά Παρνασσός και Τυμφρηστός, το οποίο είναι πάρα πολύ όμοιο με το *P. ripartii* (στα εξωτερικά χαρακτηριστικά). Όλες οι καταγραφές του *P. ripartii*, σε αυτόν τον χάρτη, θα πρέπει να επανεξεταστούν επειδή υπάρχει η πιθανότητα να υπάρχουν και άλλα κρυπτικά είδη.

ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE



[http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_ripartii\\_timfristos\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_ripartii_timfristos_complex.html)





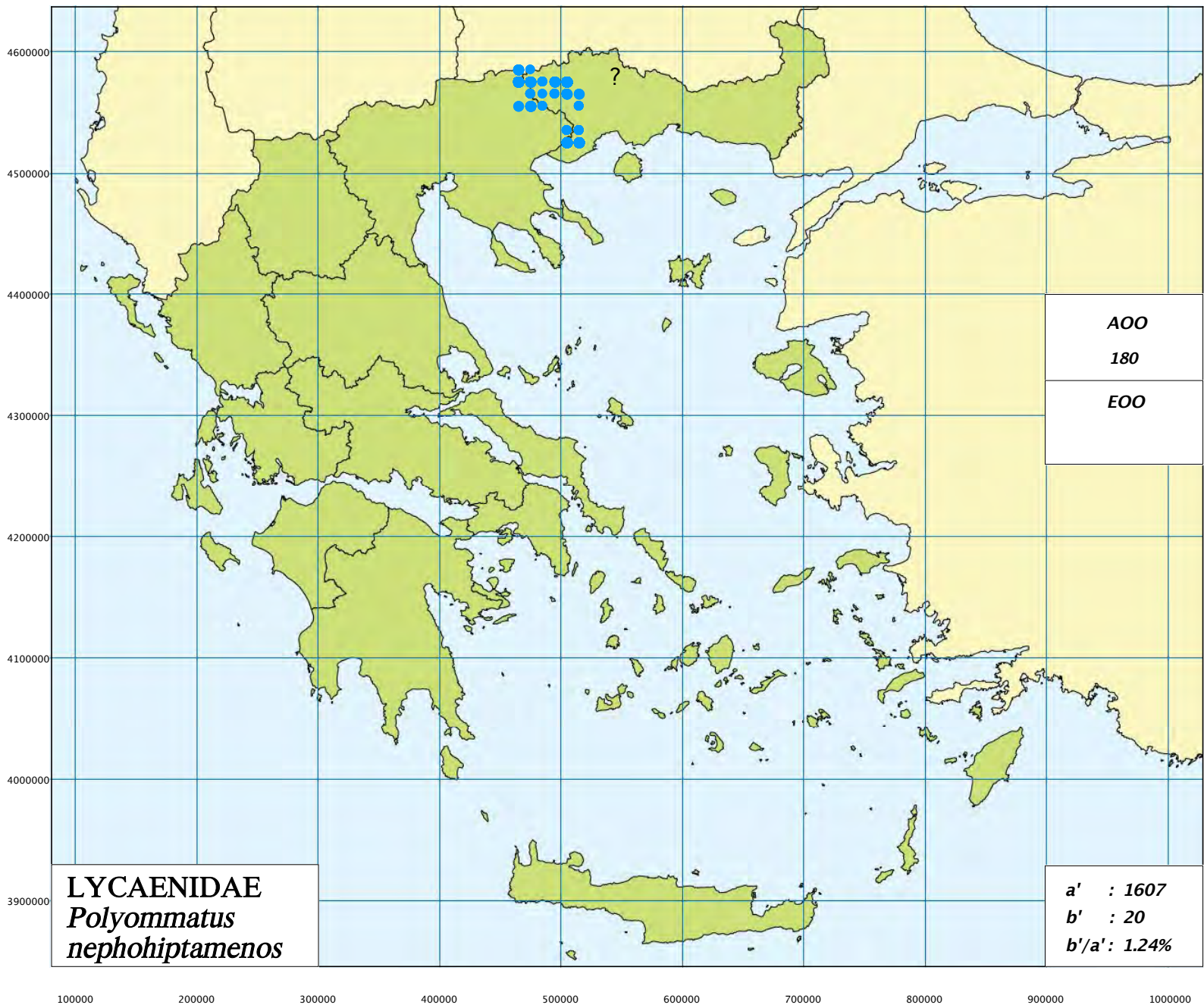
Temporarily some question marks (?) on Map are for the new *Polyommatus orphicus eleniae*, a new subspecies as suggested by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1–85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>

Προσωρινά στον Χάρτη υπάρχουν ερωτηματικά (?) για το *Polyommatus orphicus eleniae*, το οποίο έχει προταθεί με το 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>

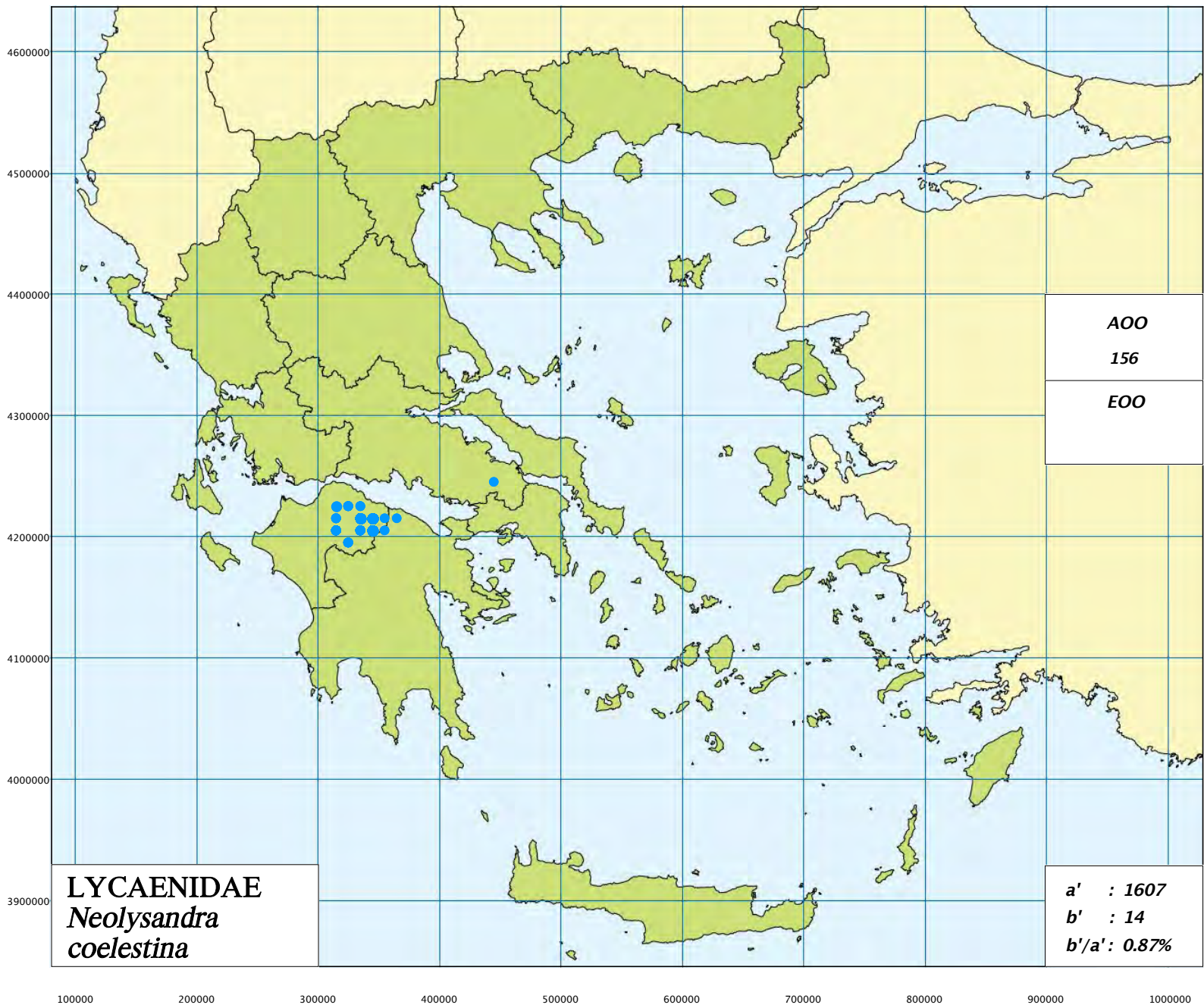
**LYCAENIDAE**  
*Polyommatus*  
*orphicus*

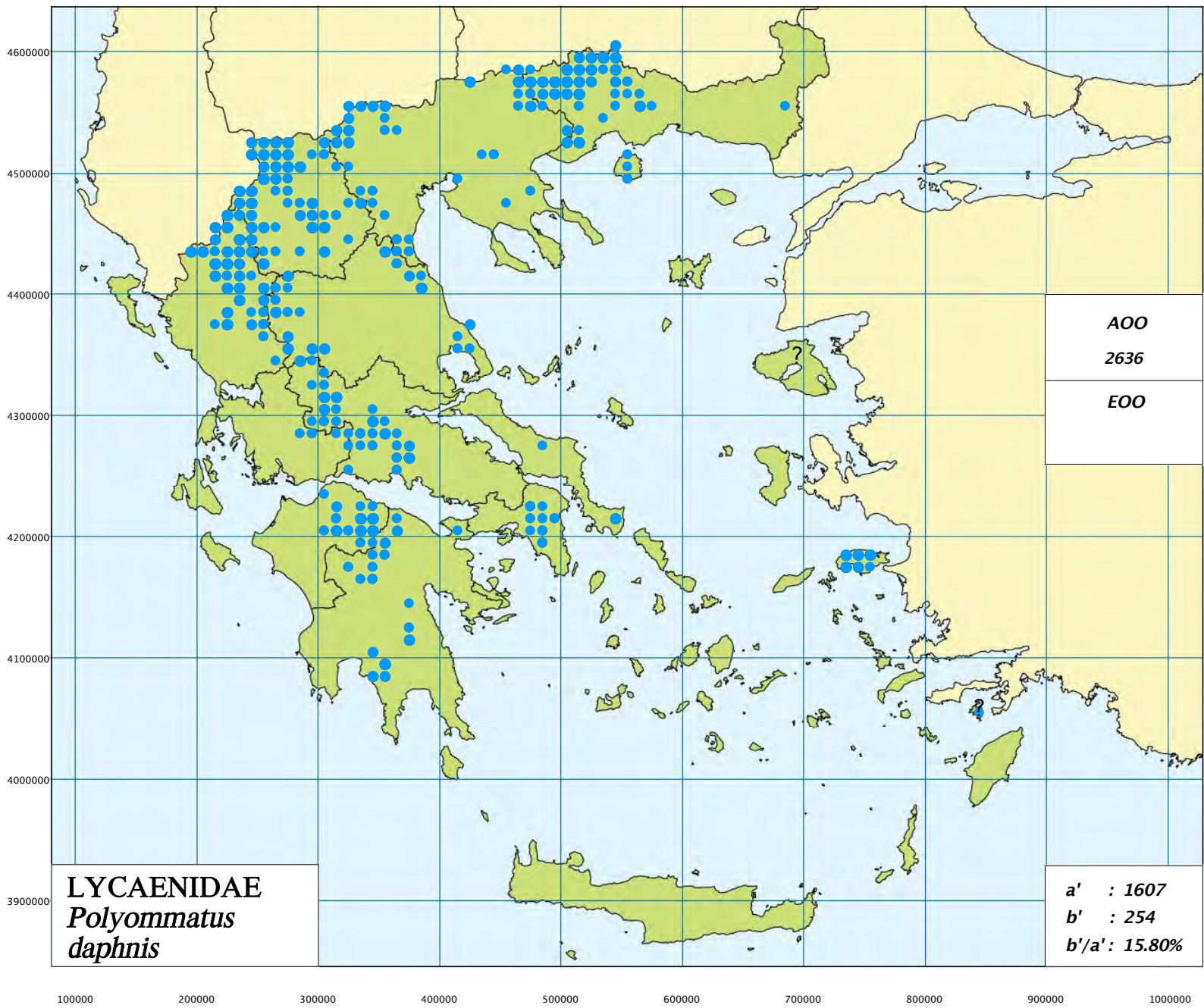
*a'* : 1607  
*b'* : 2  
*b'/a'* : 0.12%

**AOO**  
**40**  
**EOO**

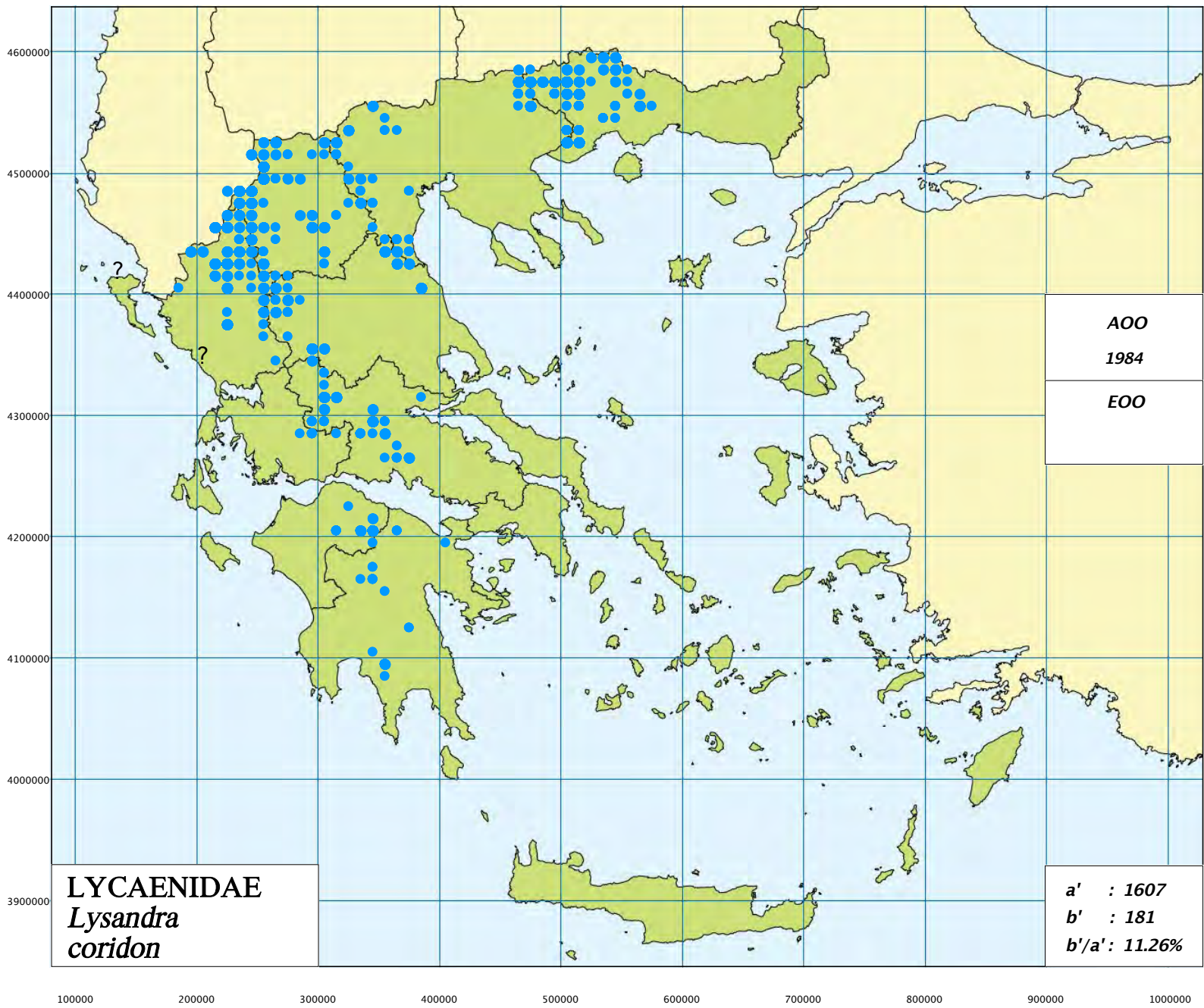




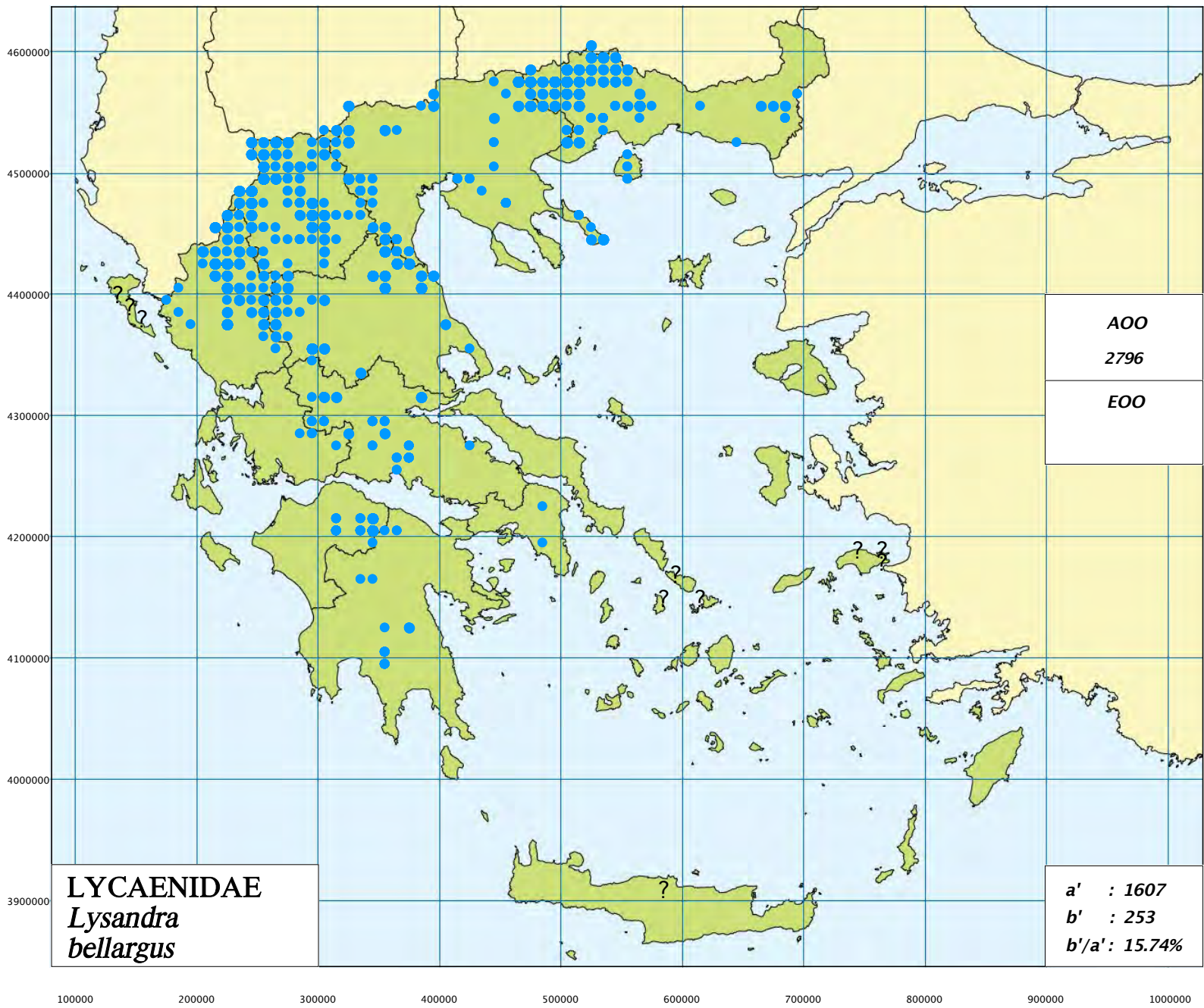






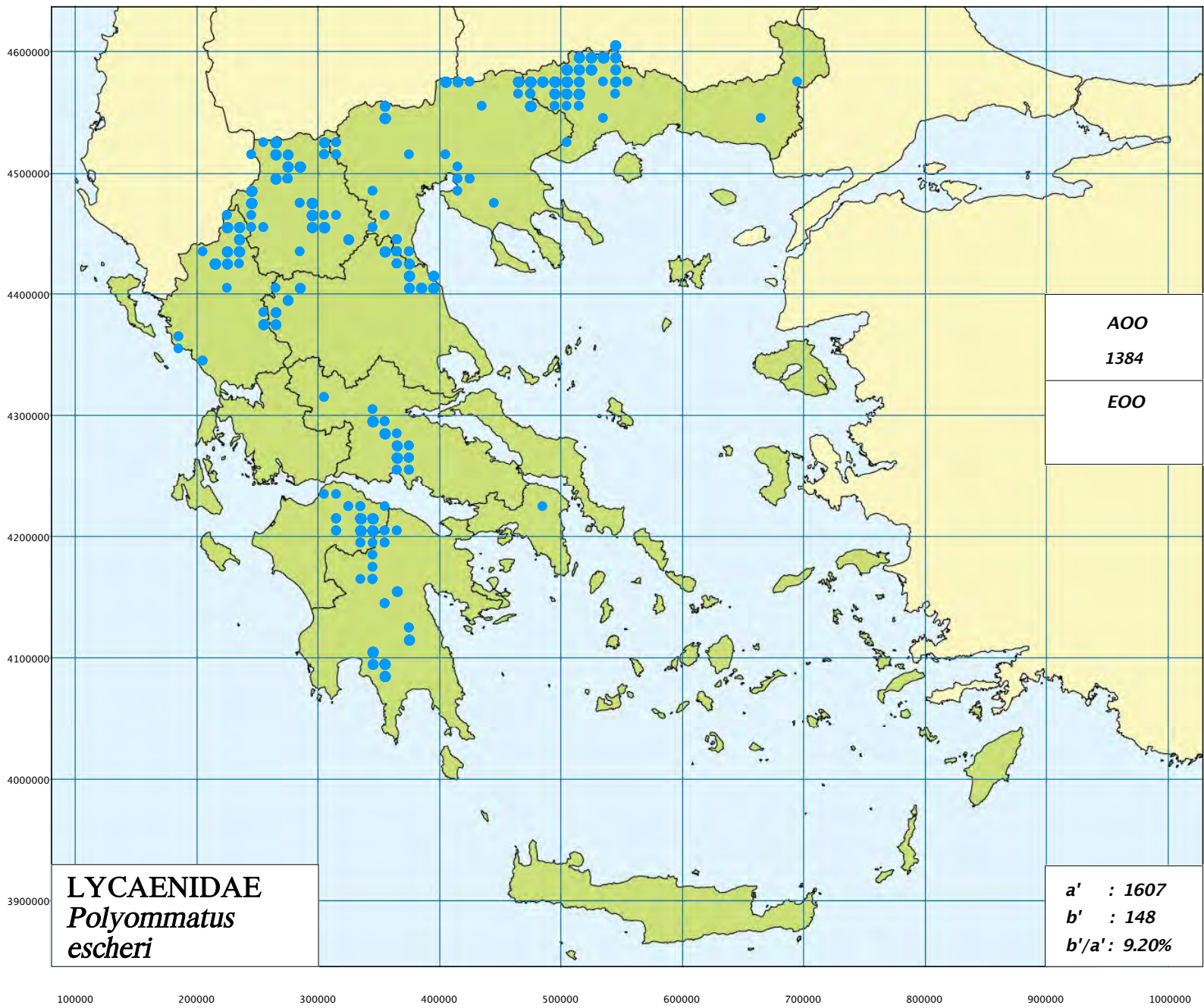


[http://www.pamperis.gr/PHOTOGRAPHS/Lysandra\\_coridon,\\_Lysandra\\_bellargus.html](http://www.pamperis.gr/PHOTOGRAPHS/Lysandra_coridon,_Lysandra_bellargus.html)

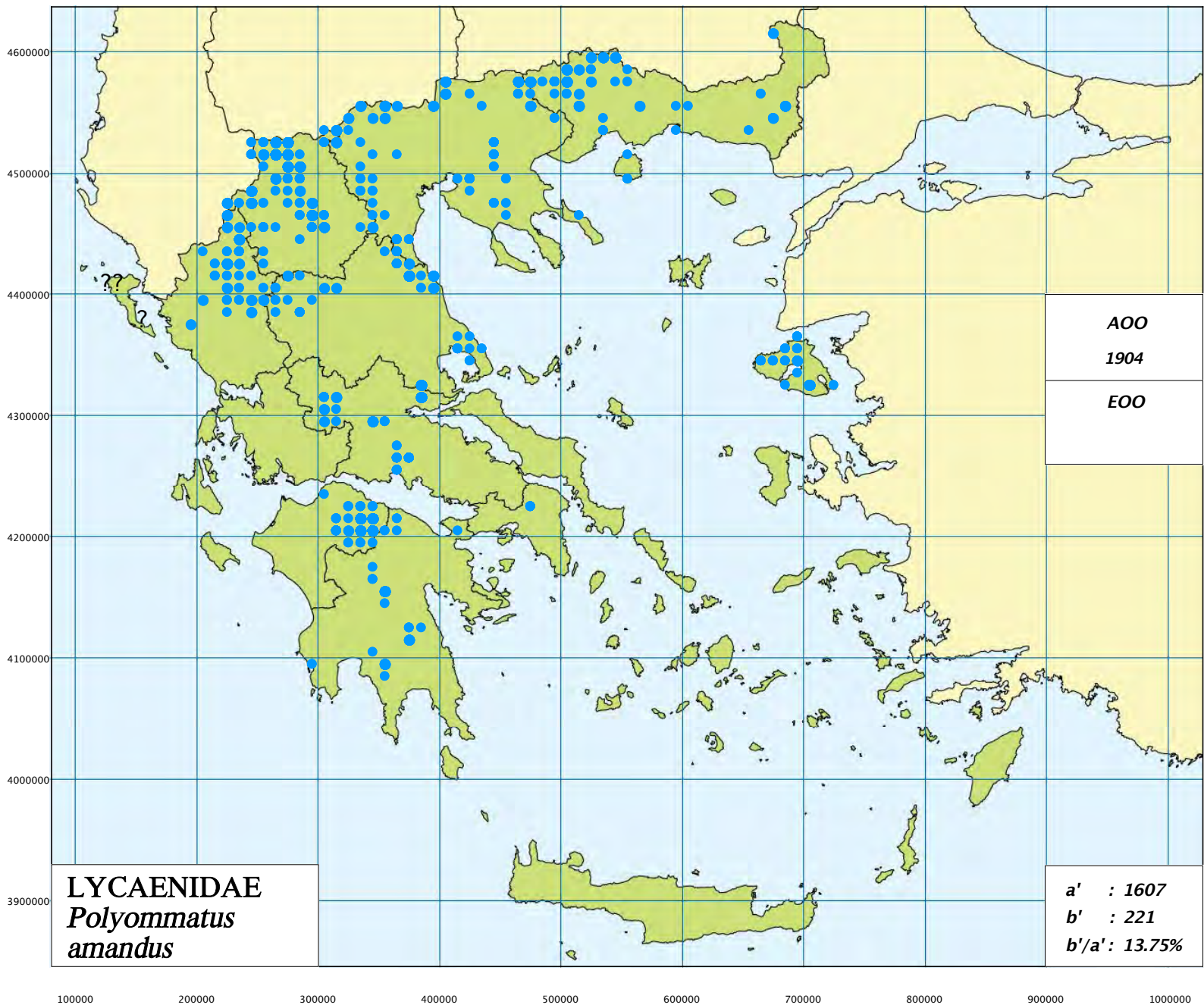


[http://www.pamperis.gr/PHOTOGRAPHS/Lysandra\\_coridon,\\_Lysandra\\_bellargus.html](http://www.pamperis.gr/PHOTOGRAPHS/Lysandra_coridon,_Lysandra_bellargus.html)

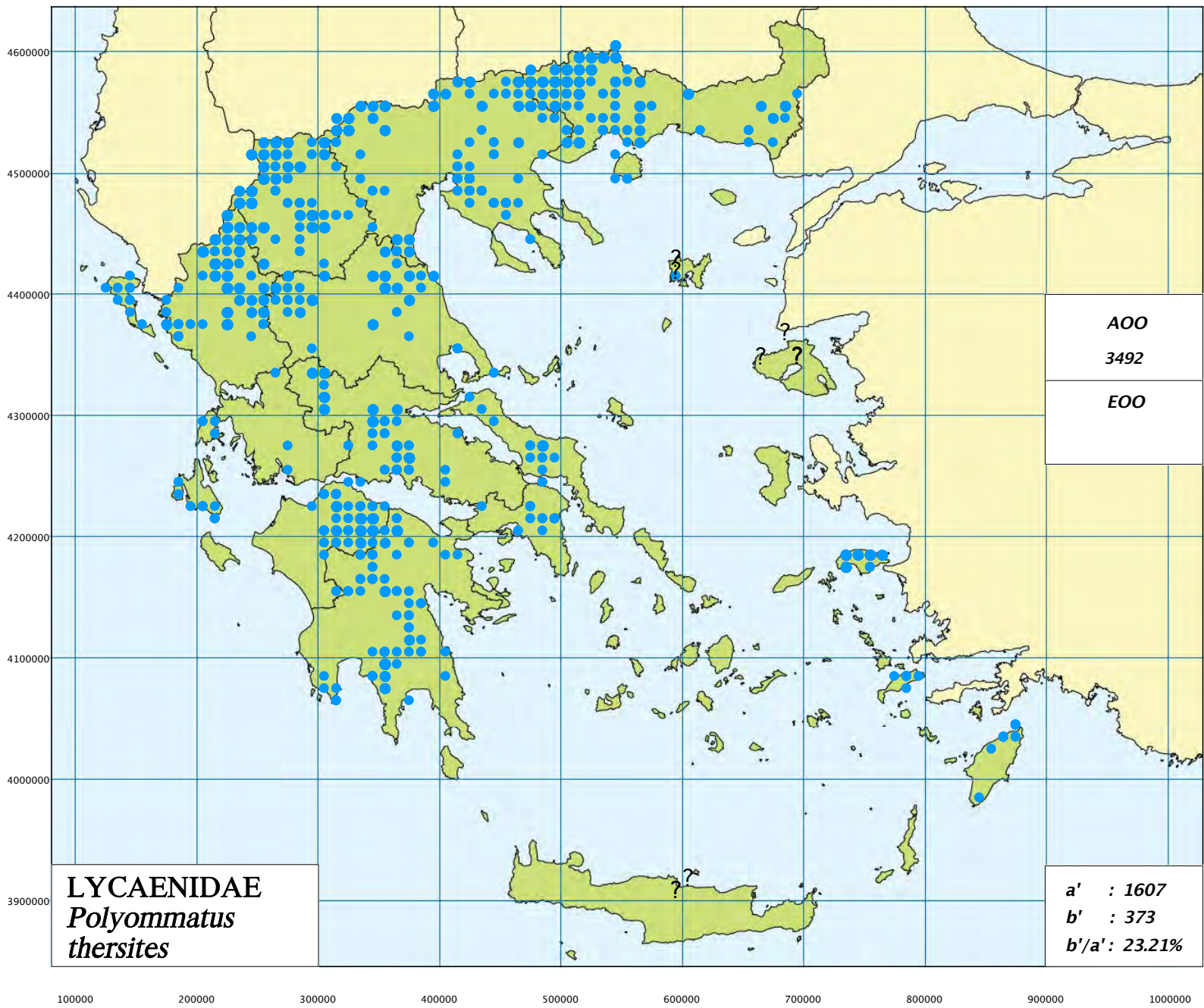




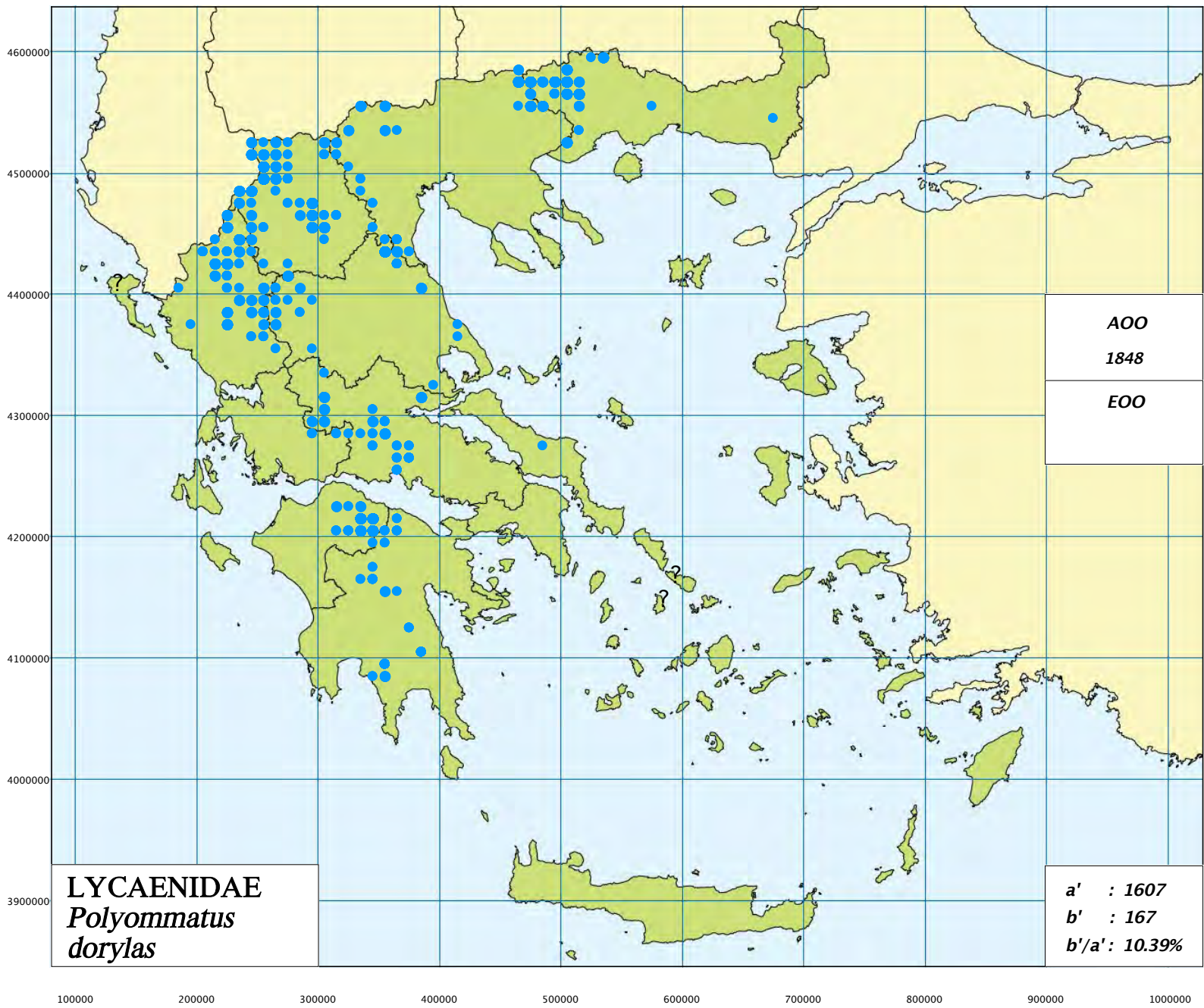
[http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_escheri,\\_Polyommatus\\_thersites.html](http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_escheri,_Polyommatus_thersites.html)



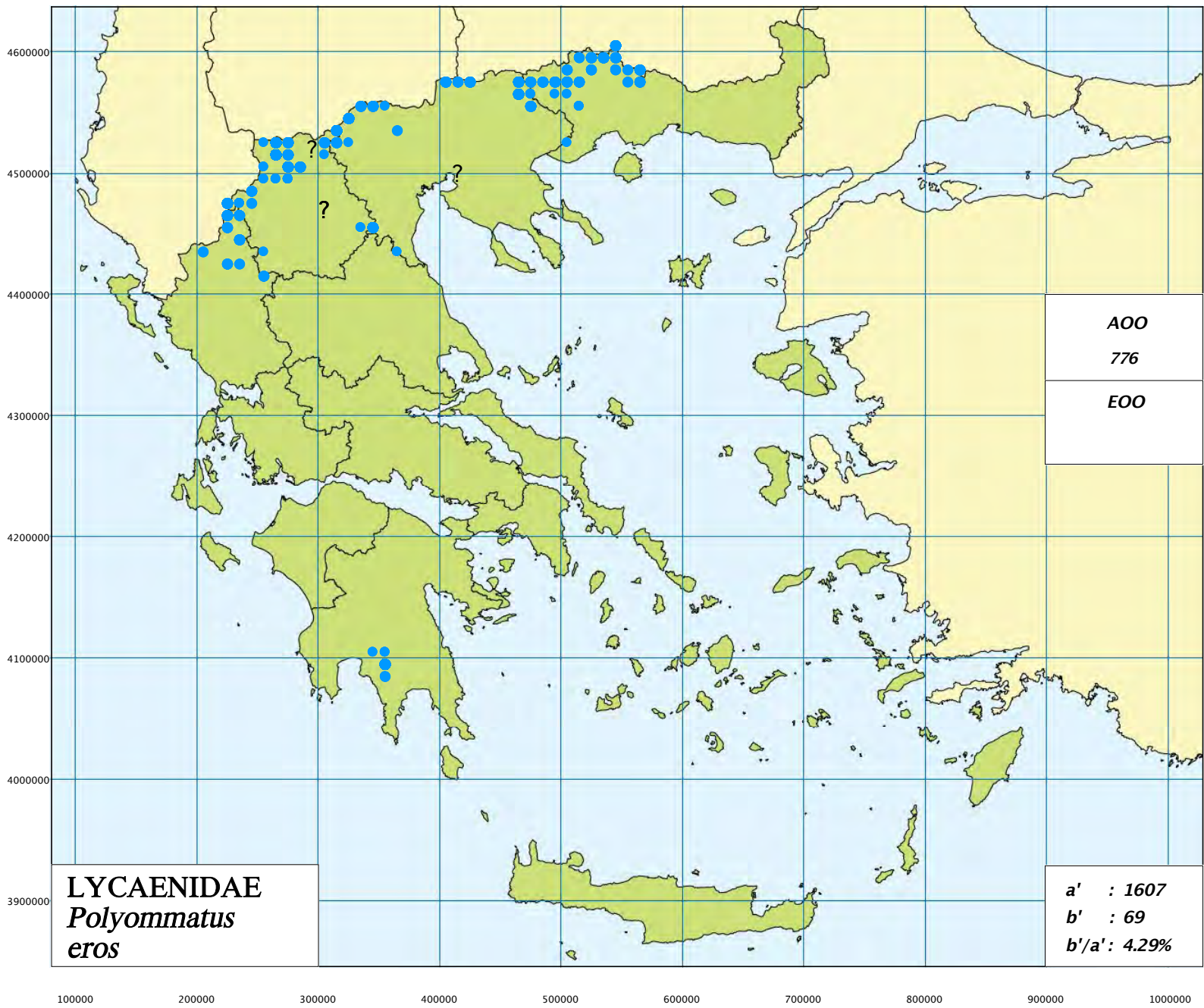




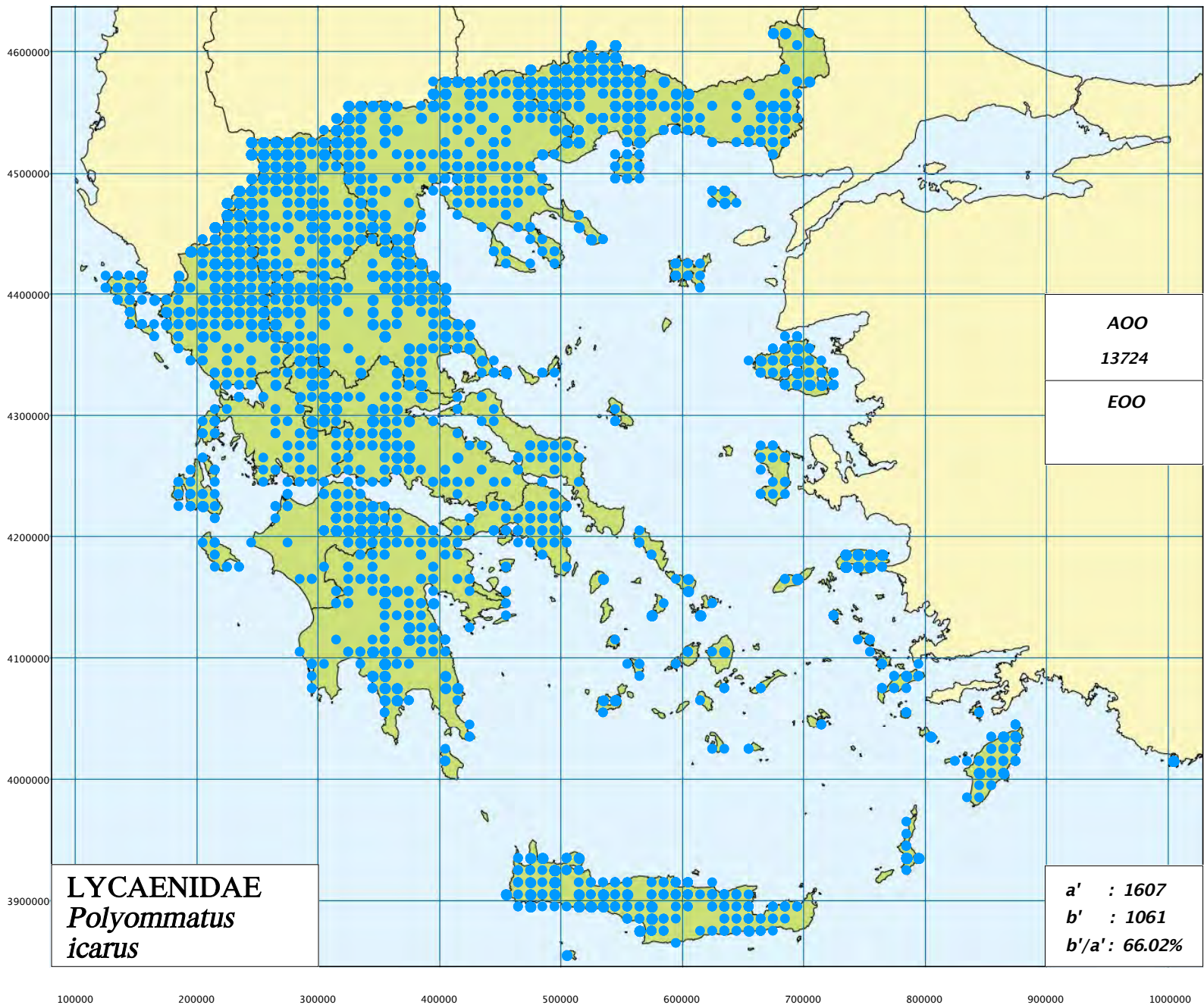
[http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_escheri,\\_Polyommatus\\_thersites.html](http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_escheri,_Polyommatus_thersites.html)







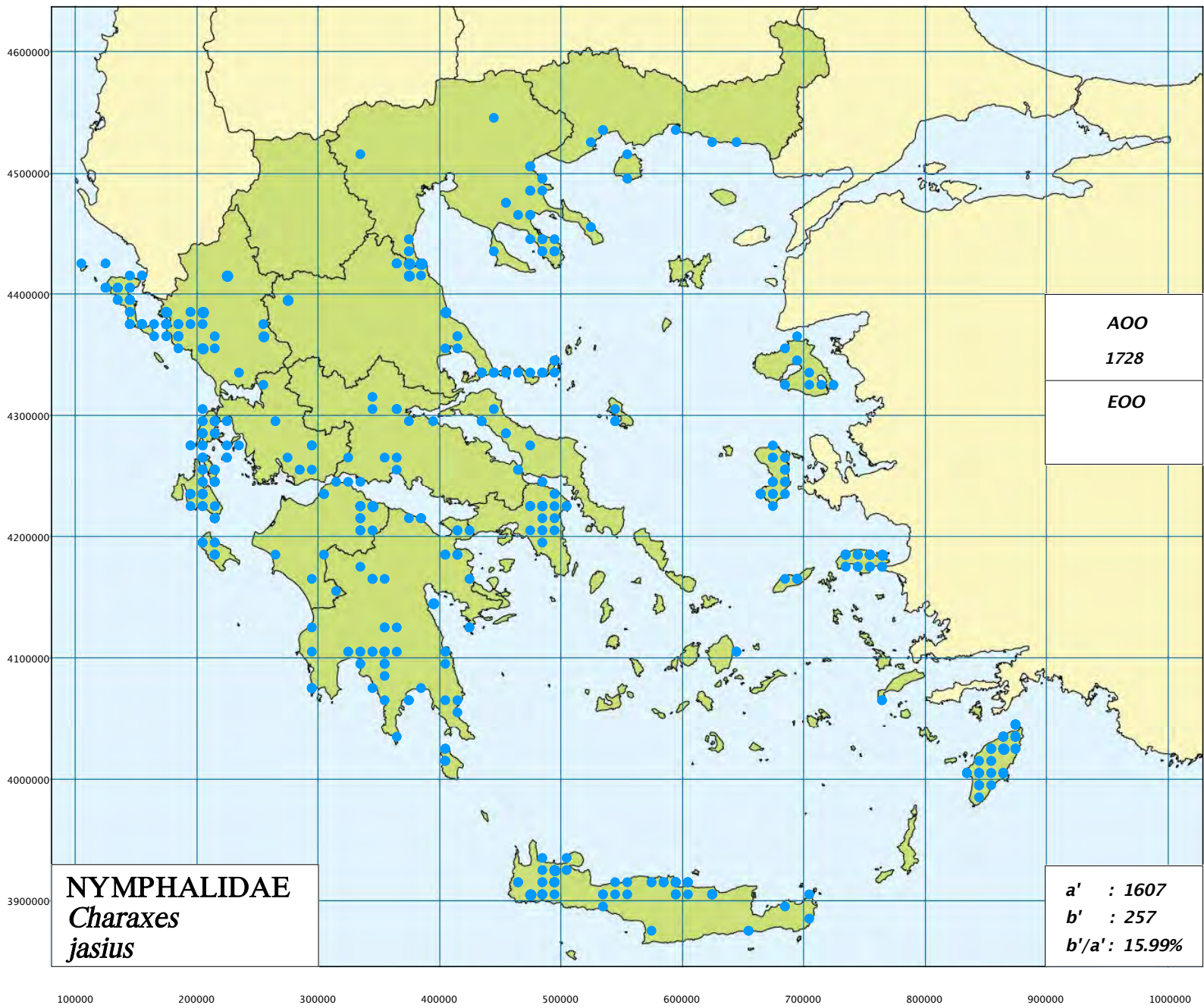
[http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_icarus,\\_Polyommatus\\_eros.html](http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_icarus,_Polyommatus_eros.html)

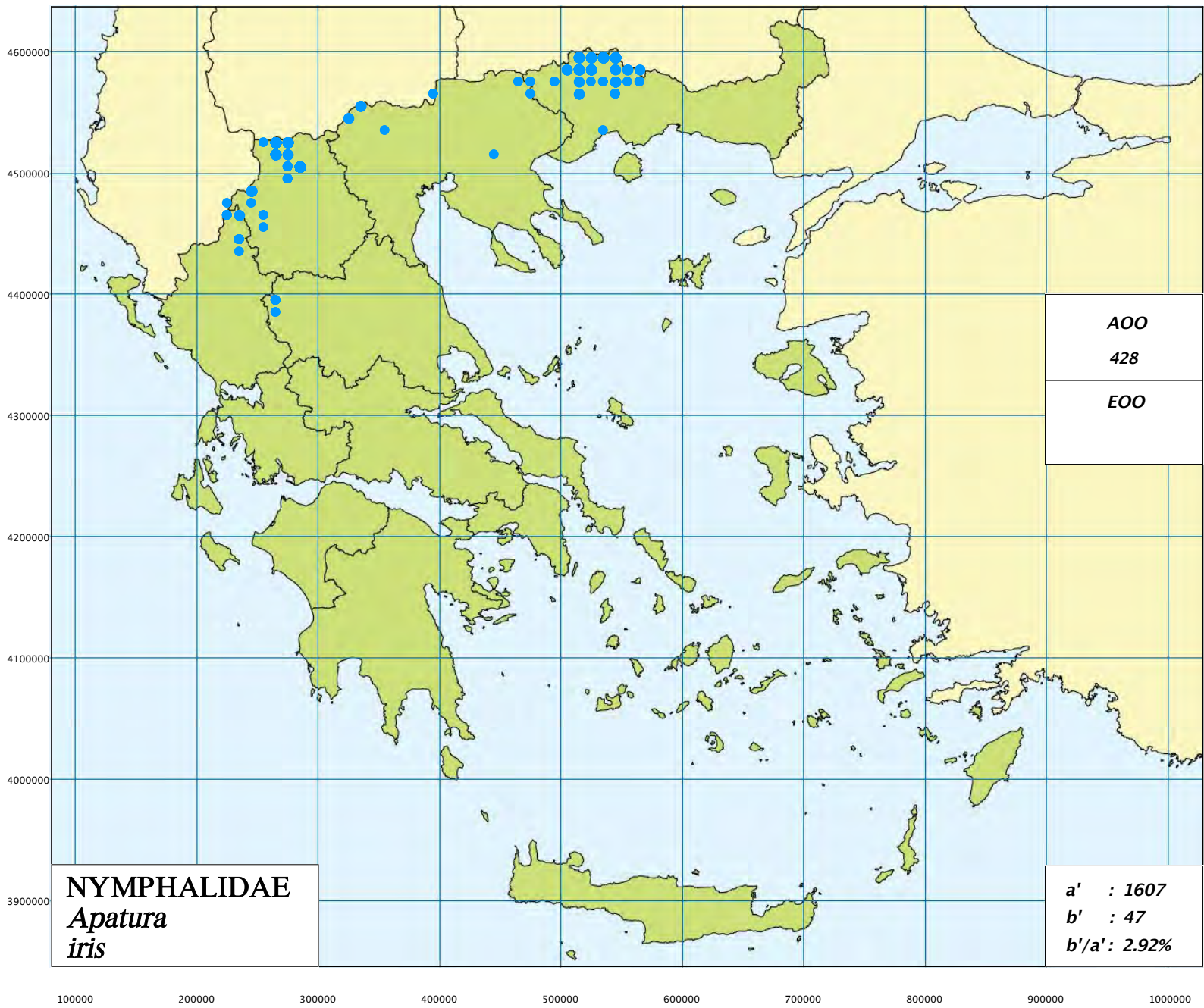


All records of *Polyommatus andronicus* (in previous Maps) are included here in the Map for *Polyommatus icarus*.

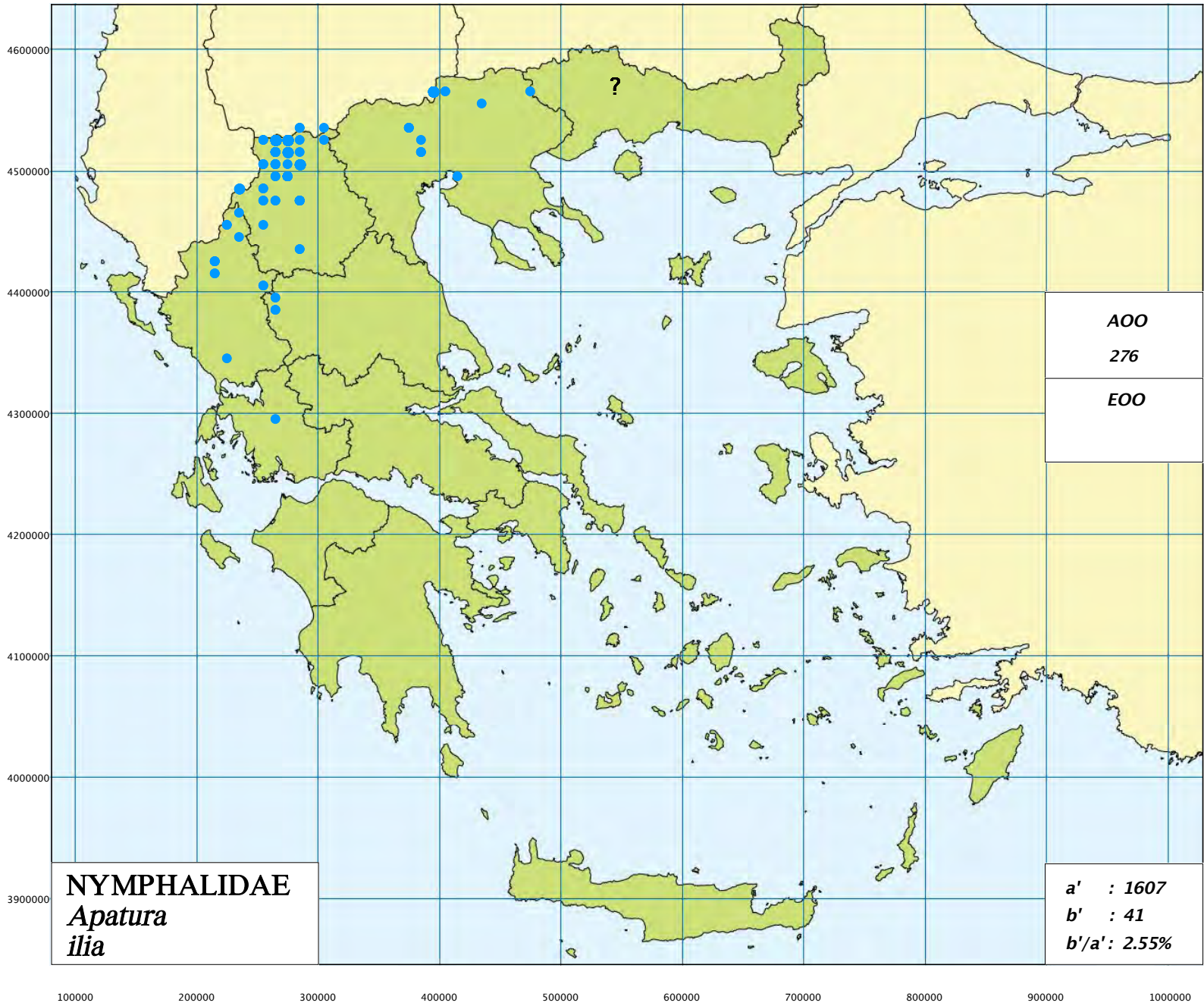
Όλες οι καταγραφές για το *Polyommatus andronicus* των προηγούμενων Χαρτών έχουν συμπεριληφθεί εδώ στον Χάρτη για το *Polyommatus icarus*

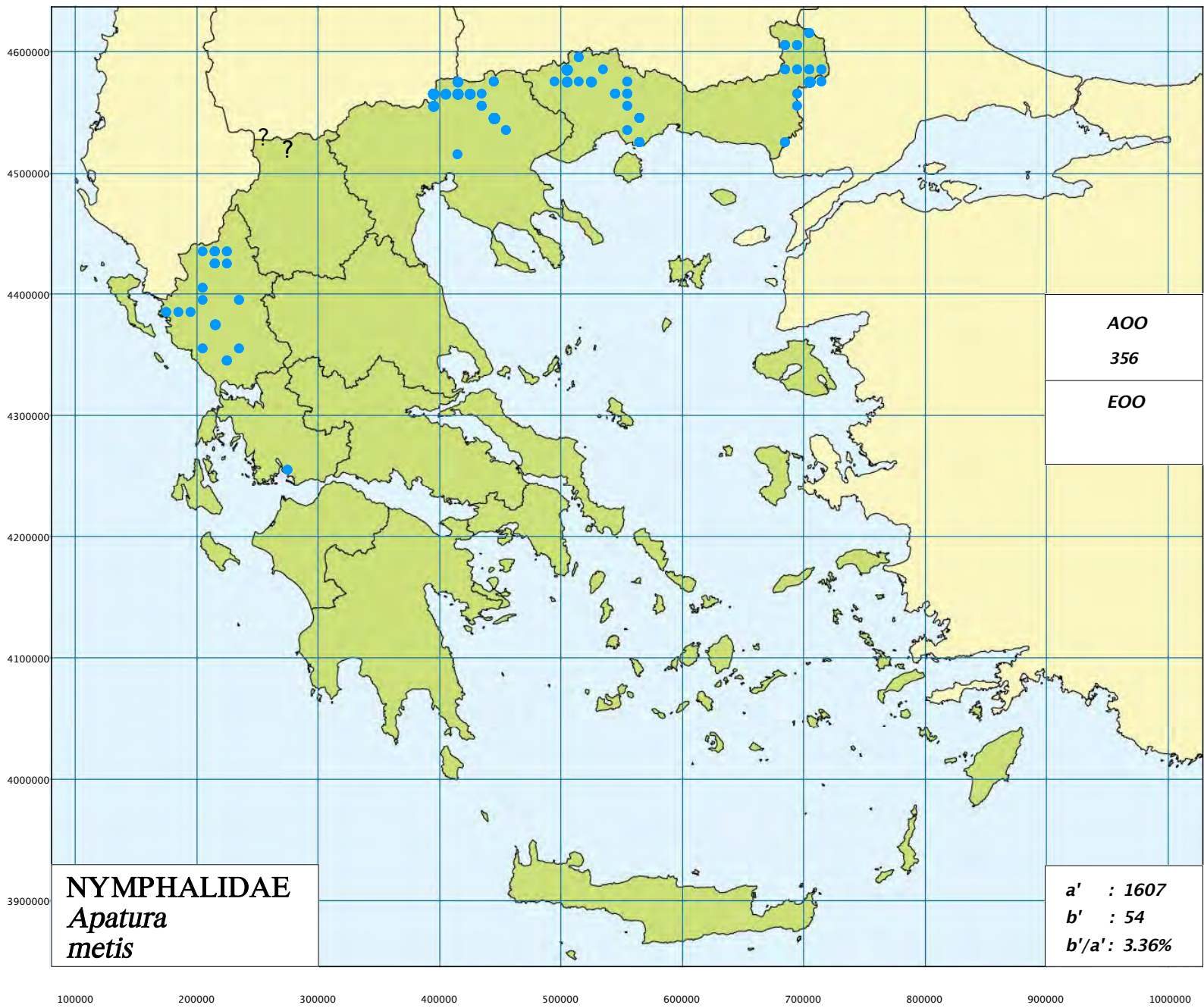




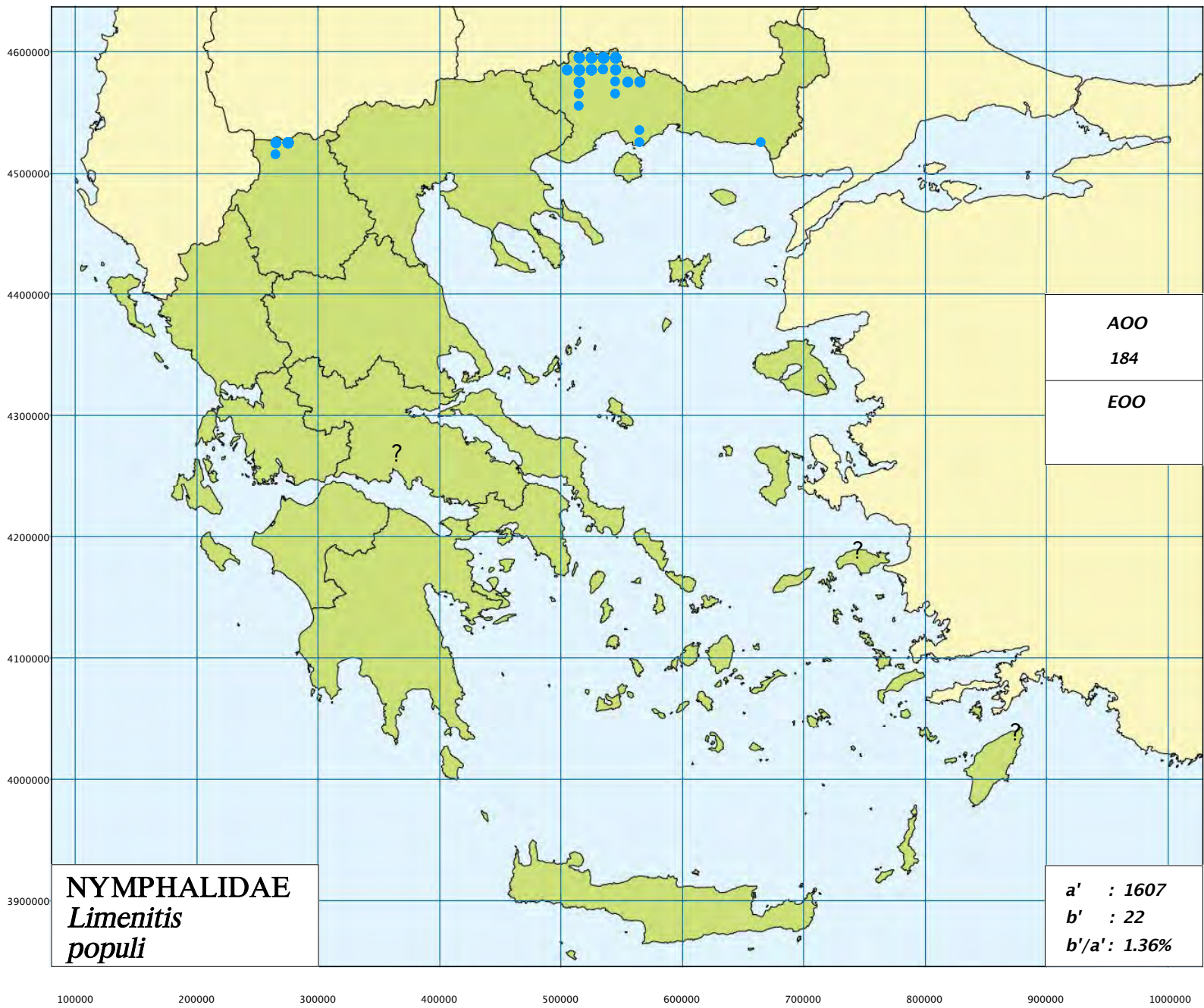


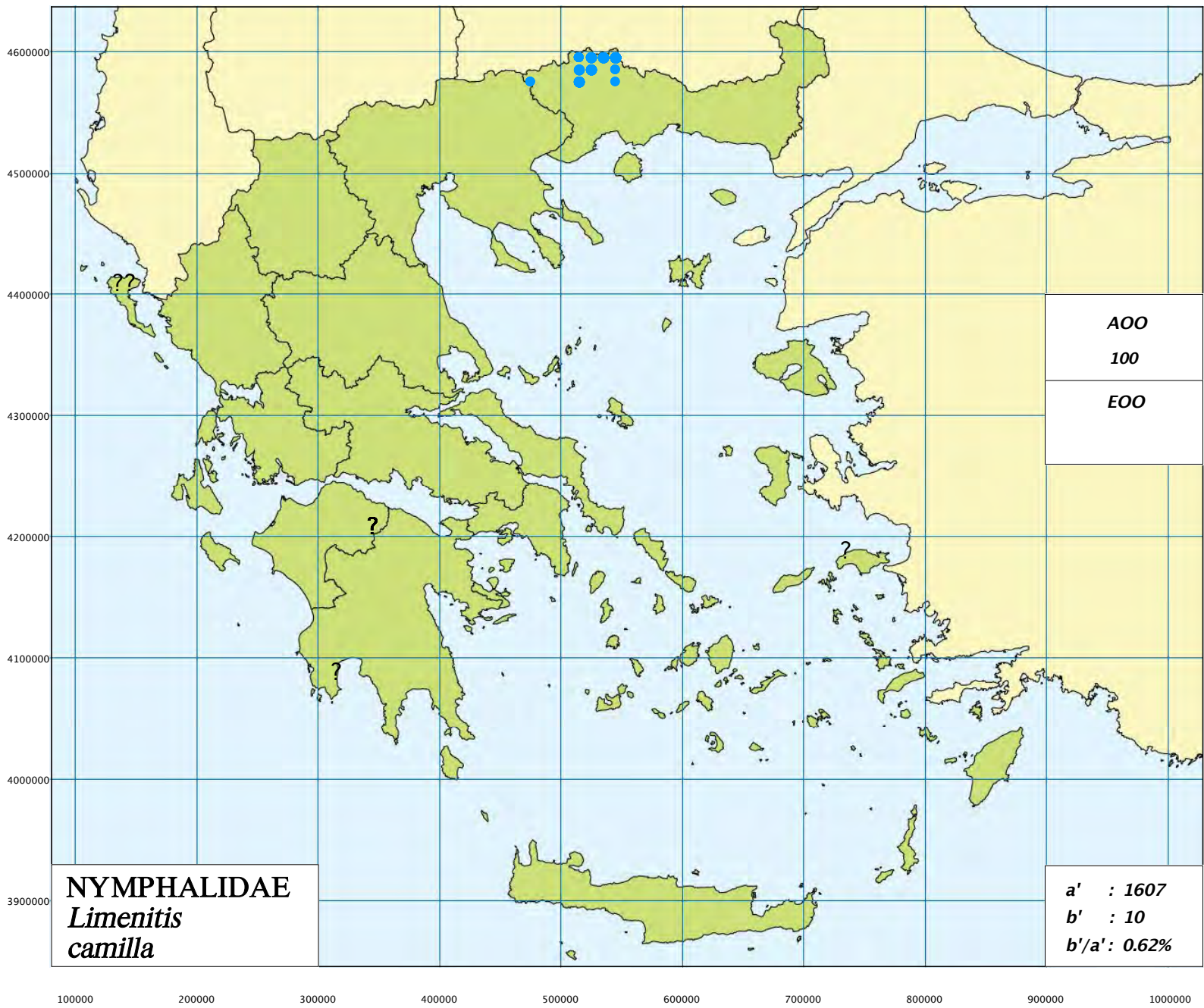




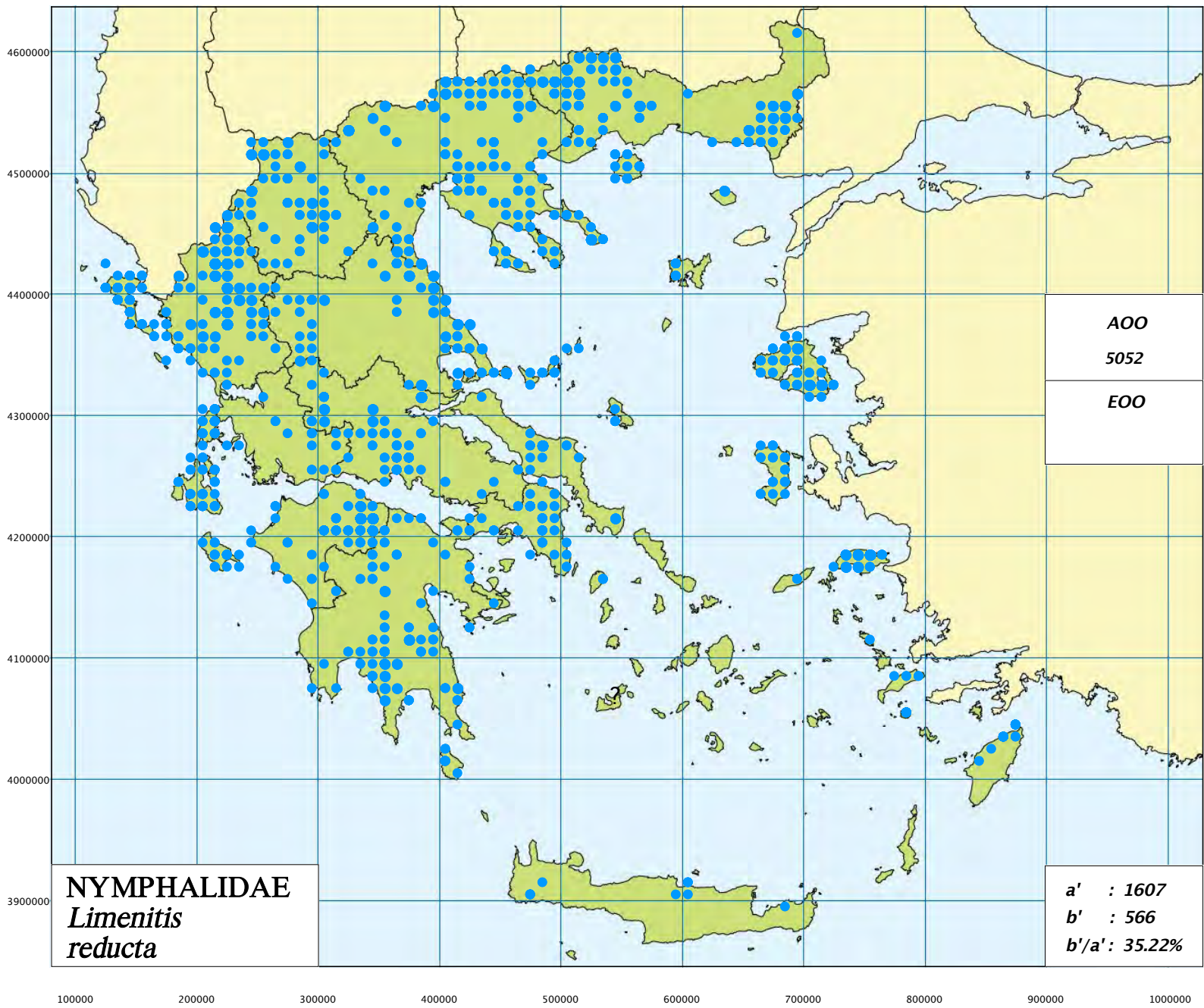


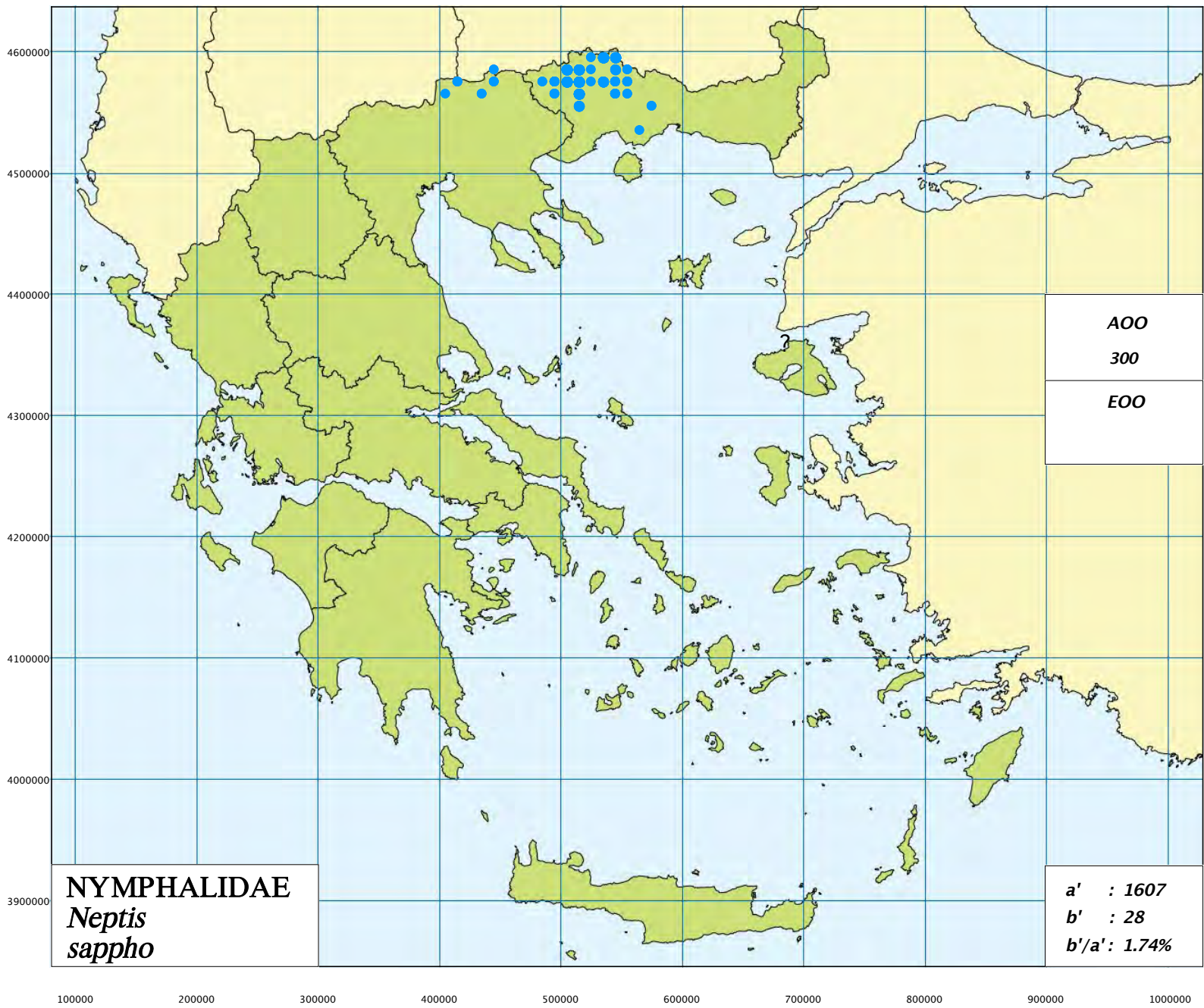




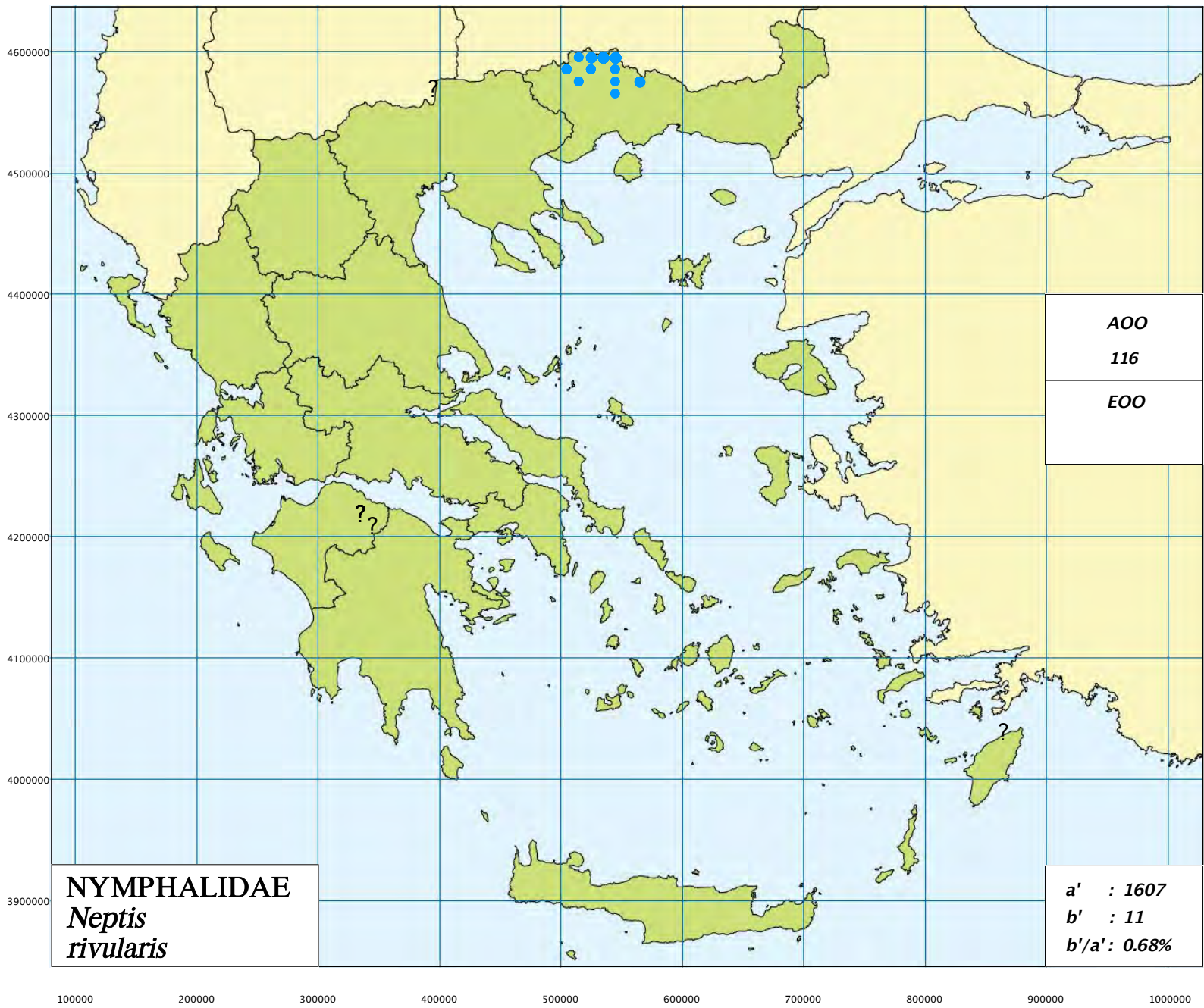


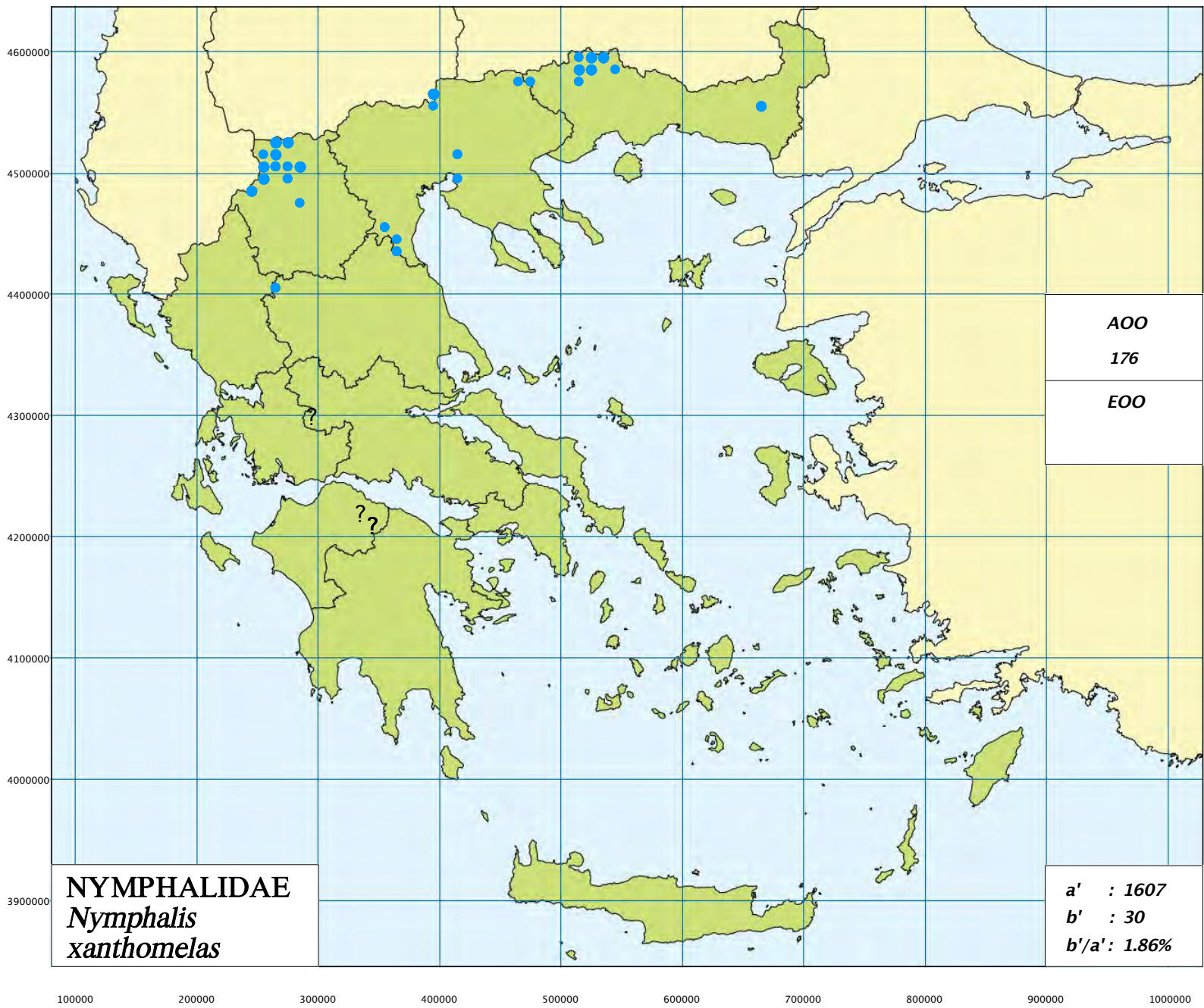




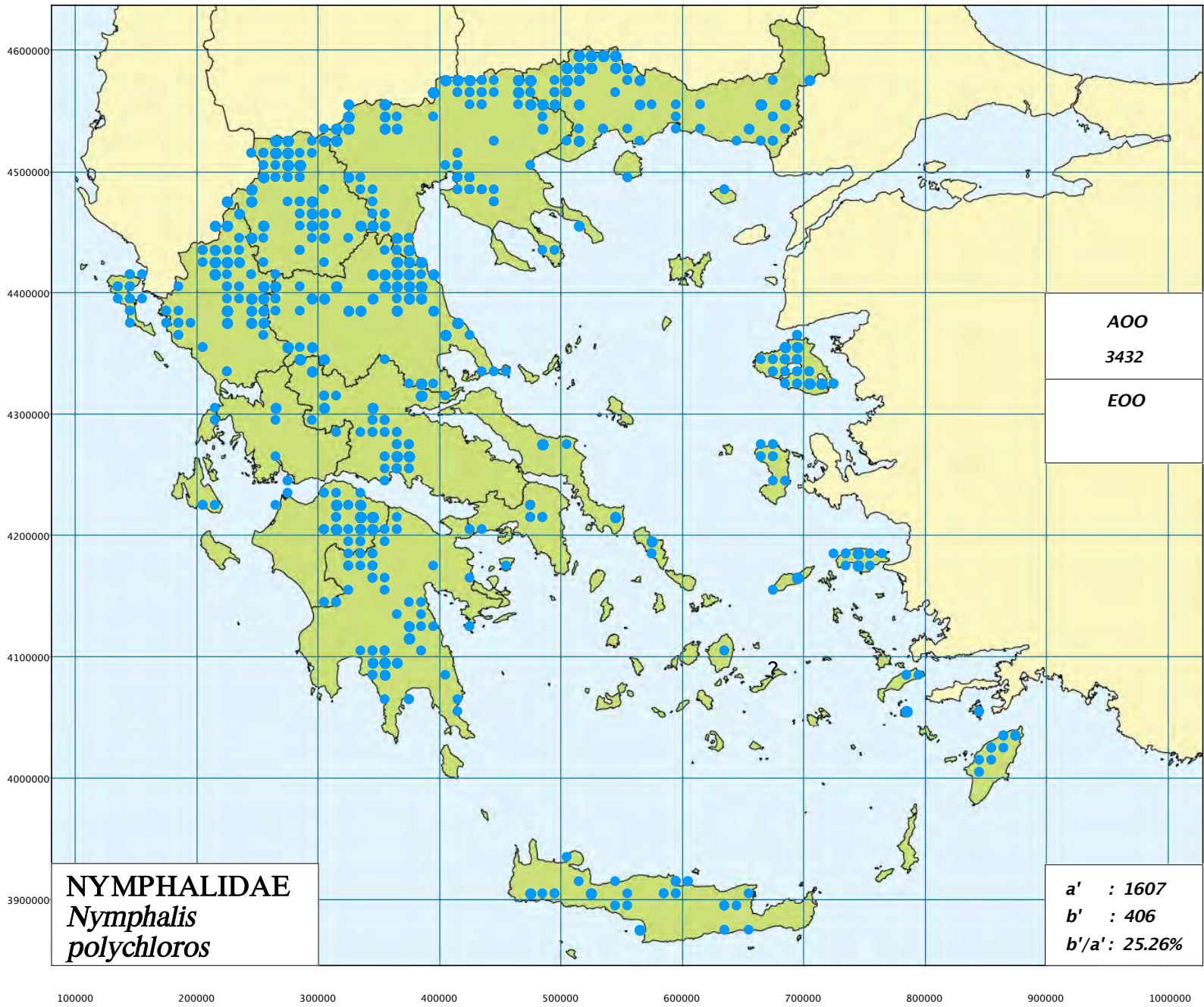


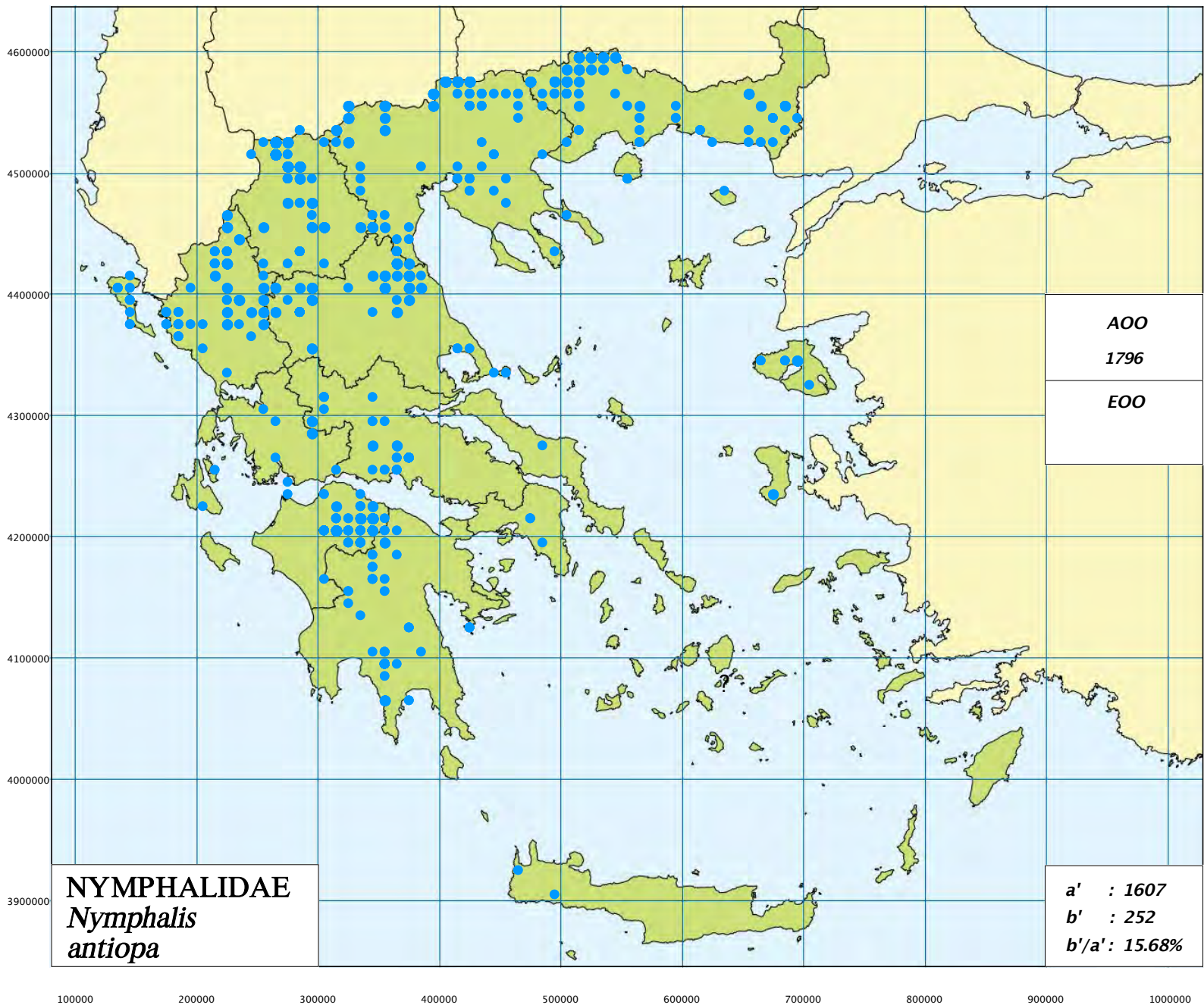




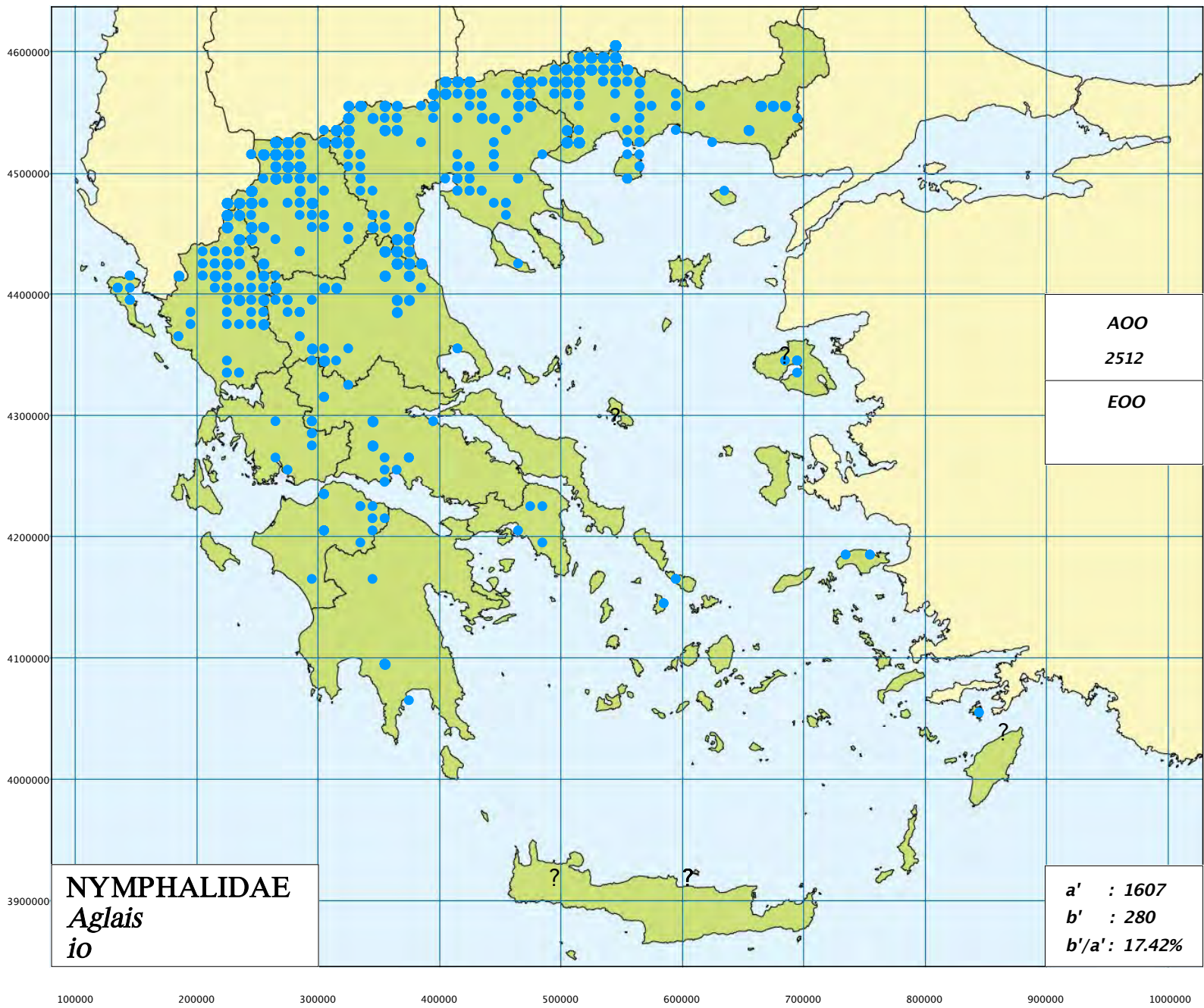


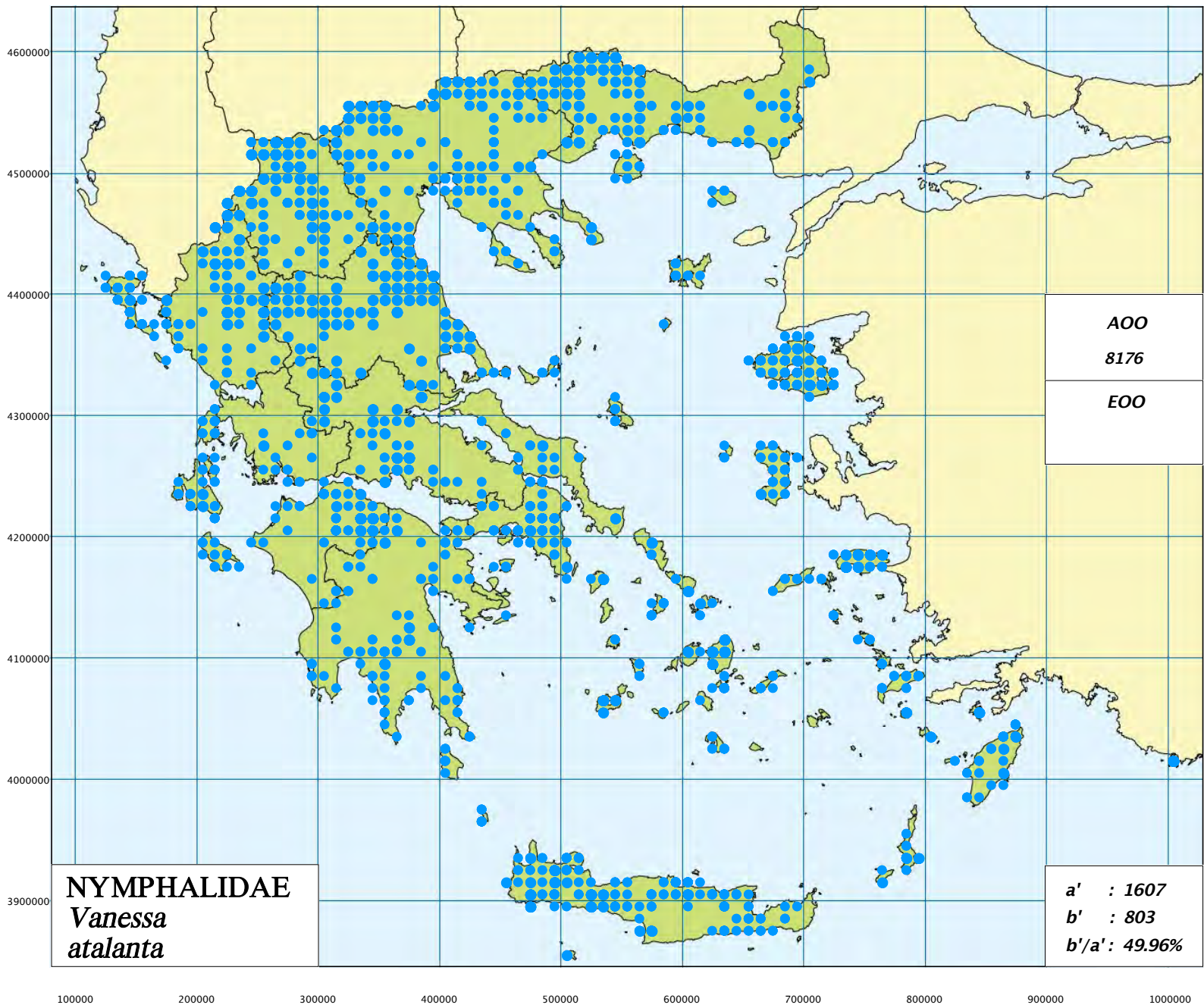




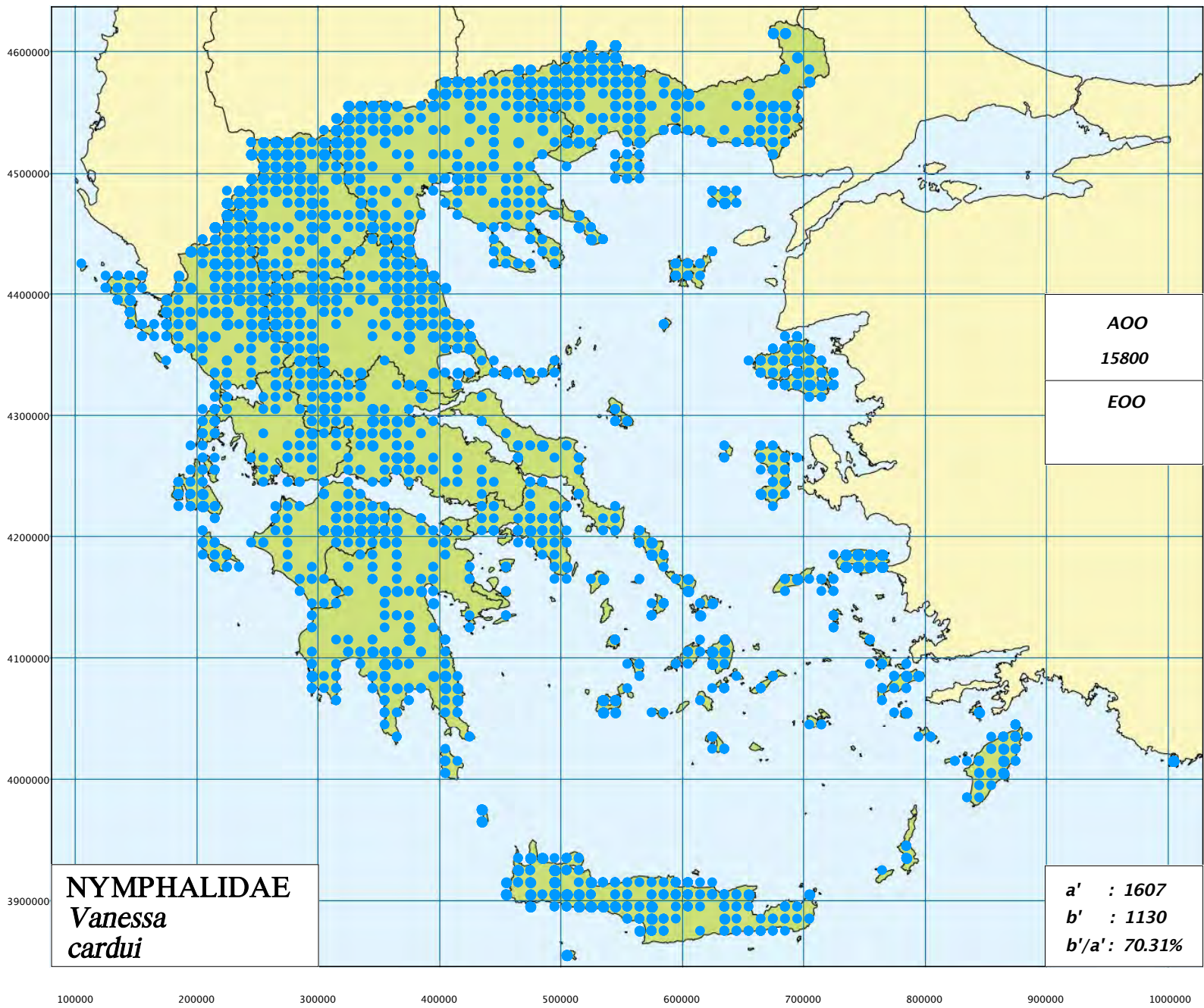


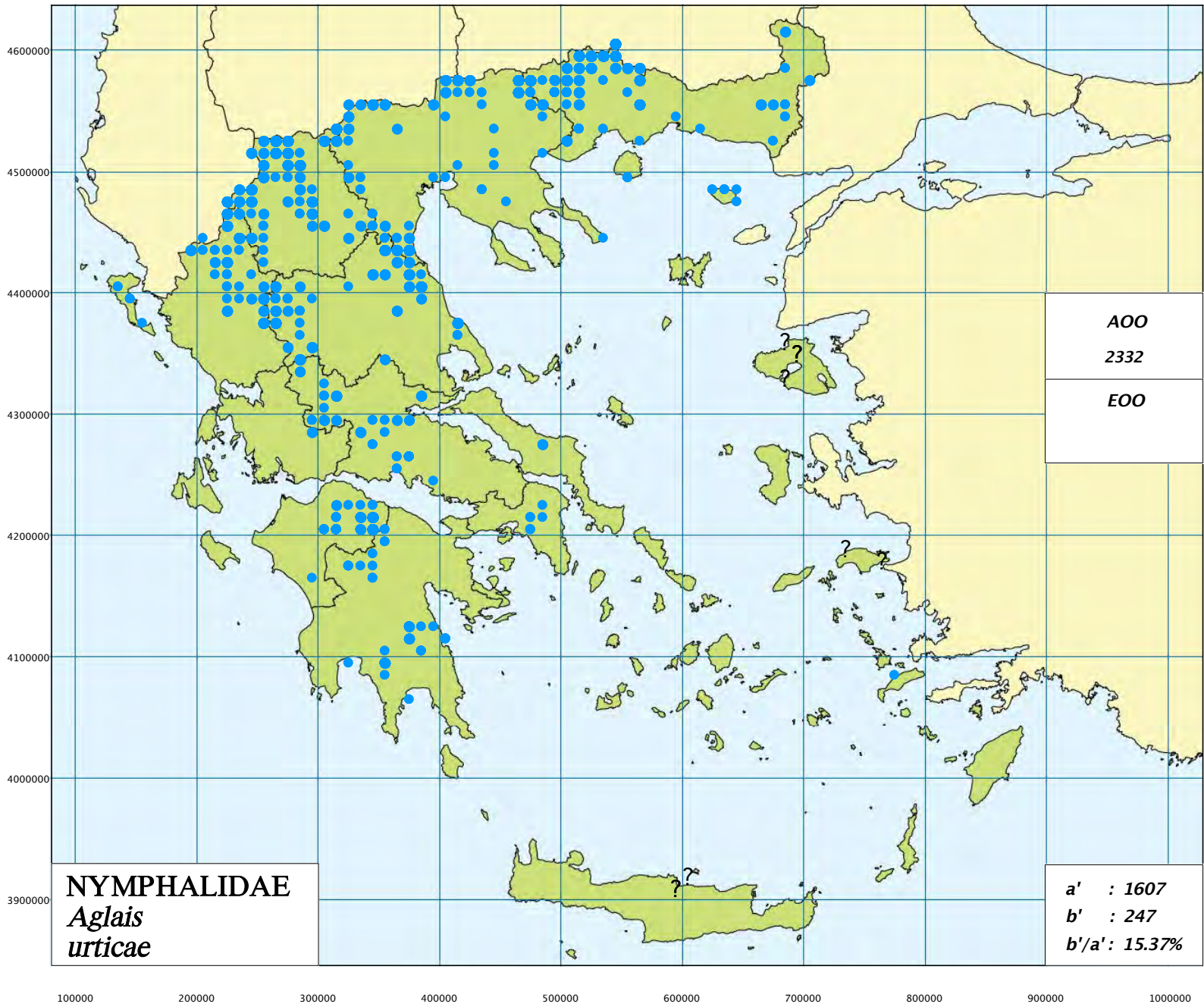




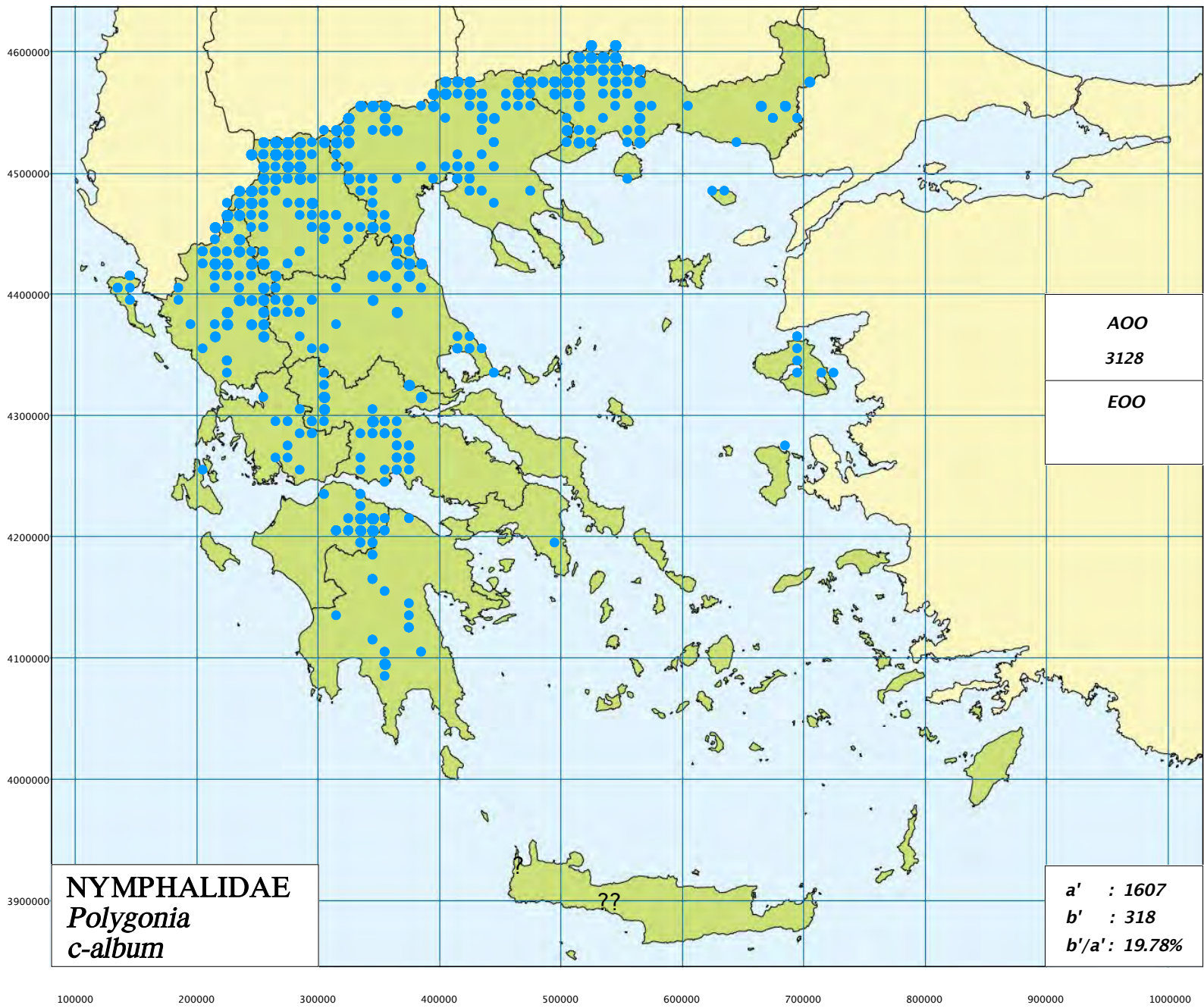


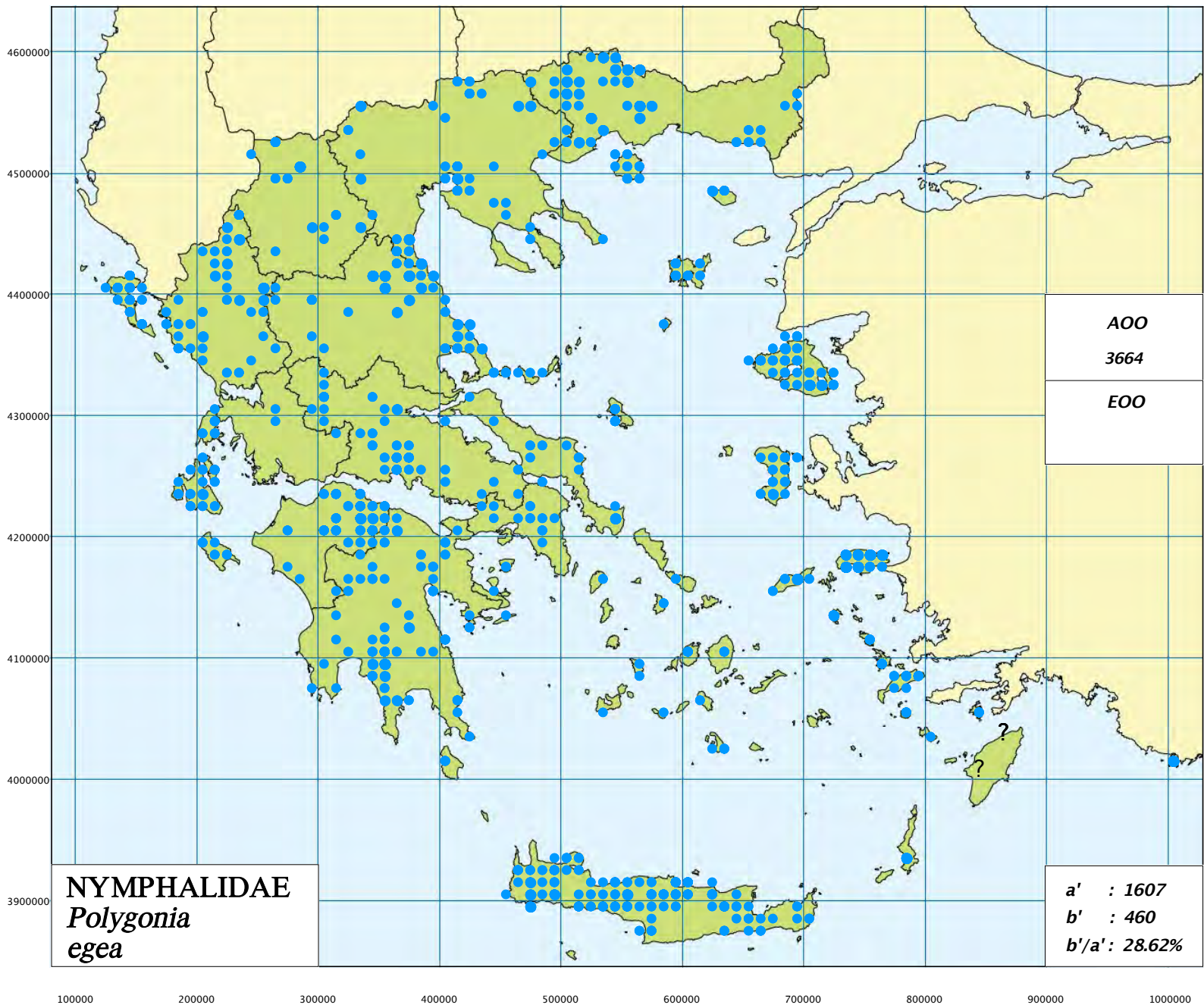




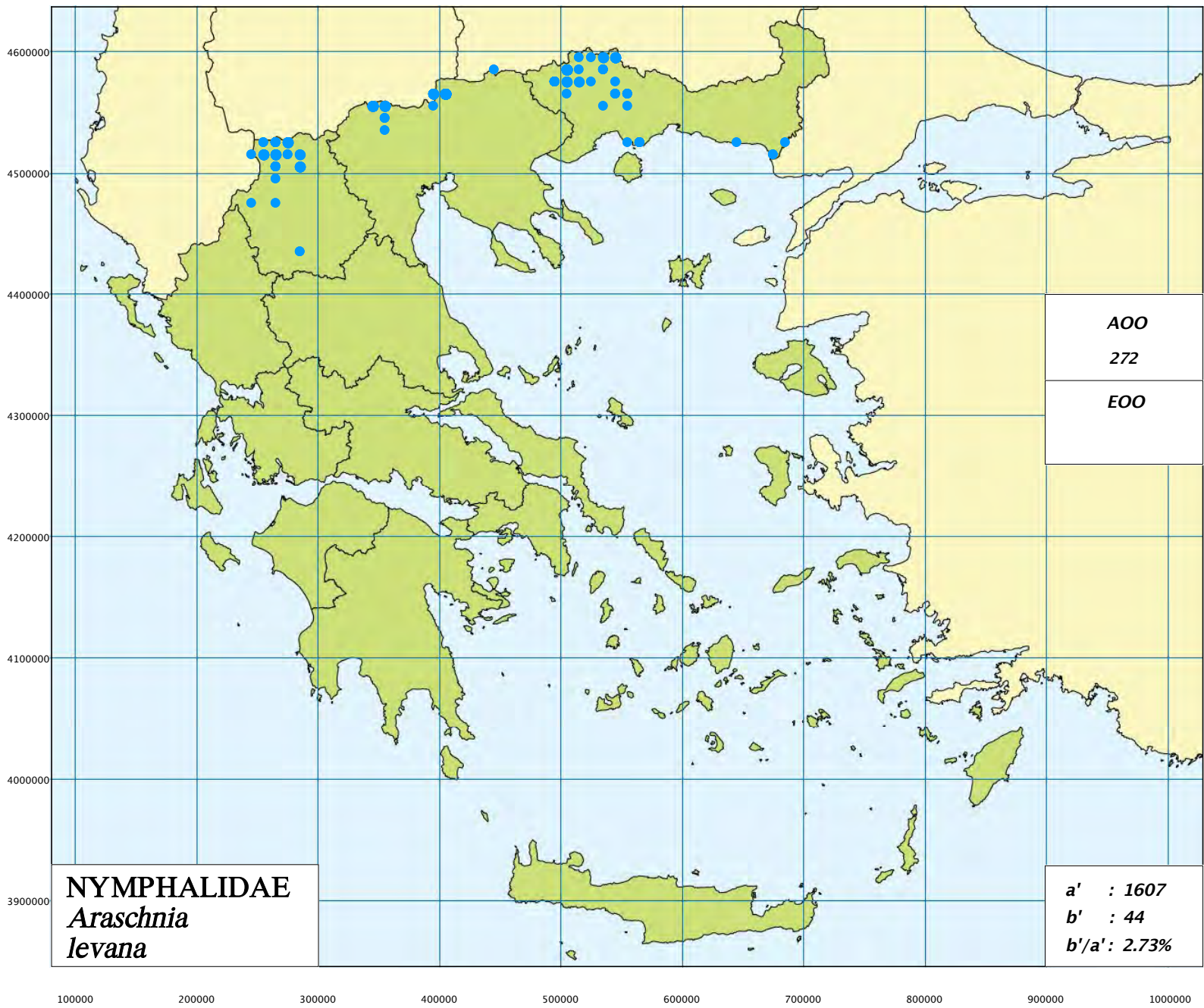


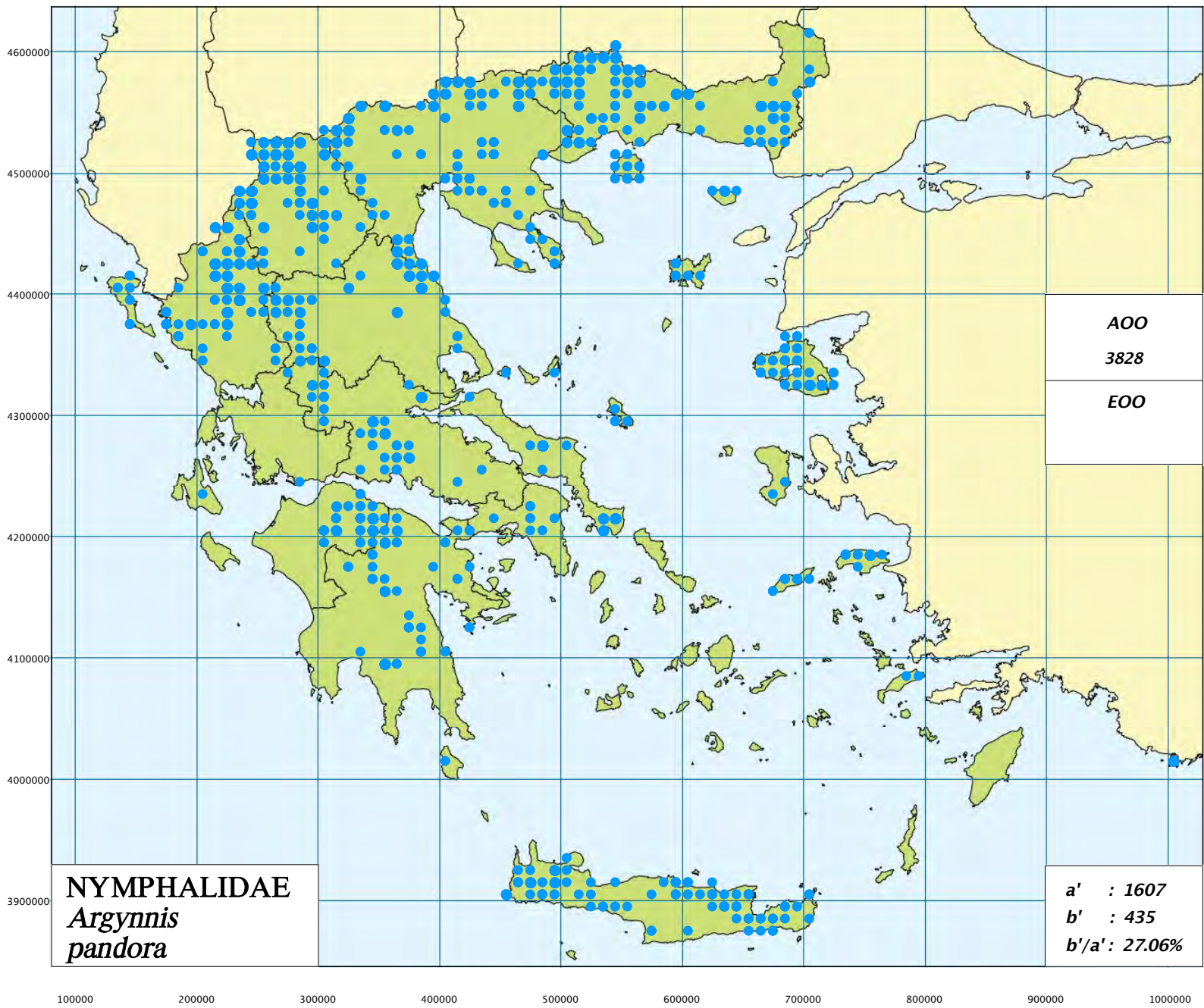




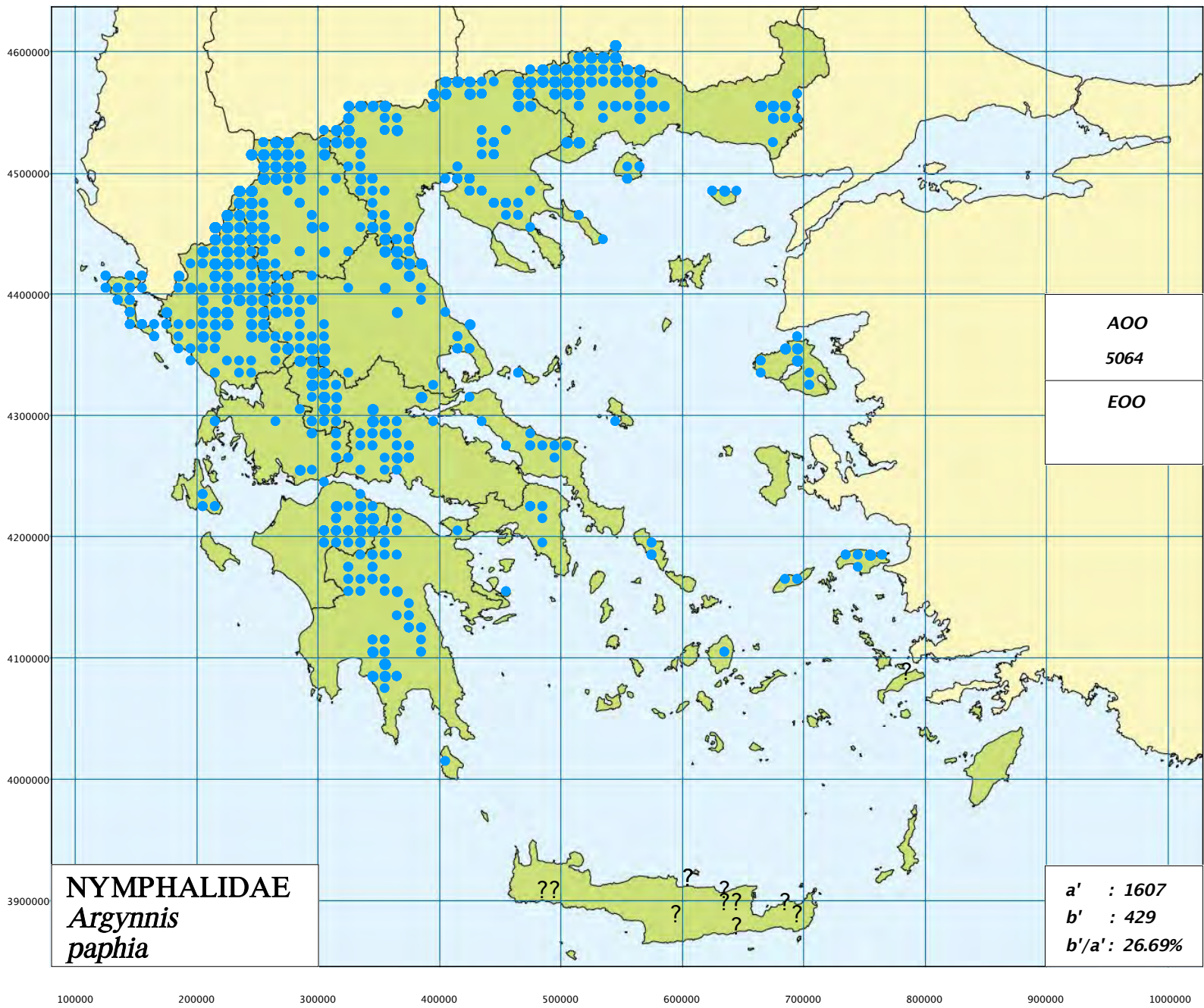


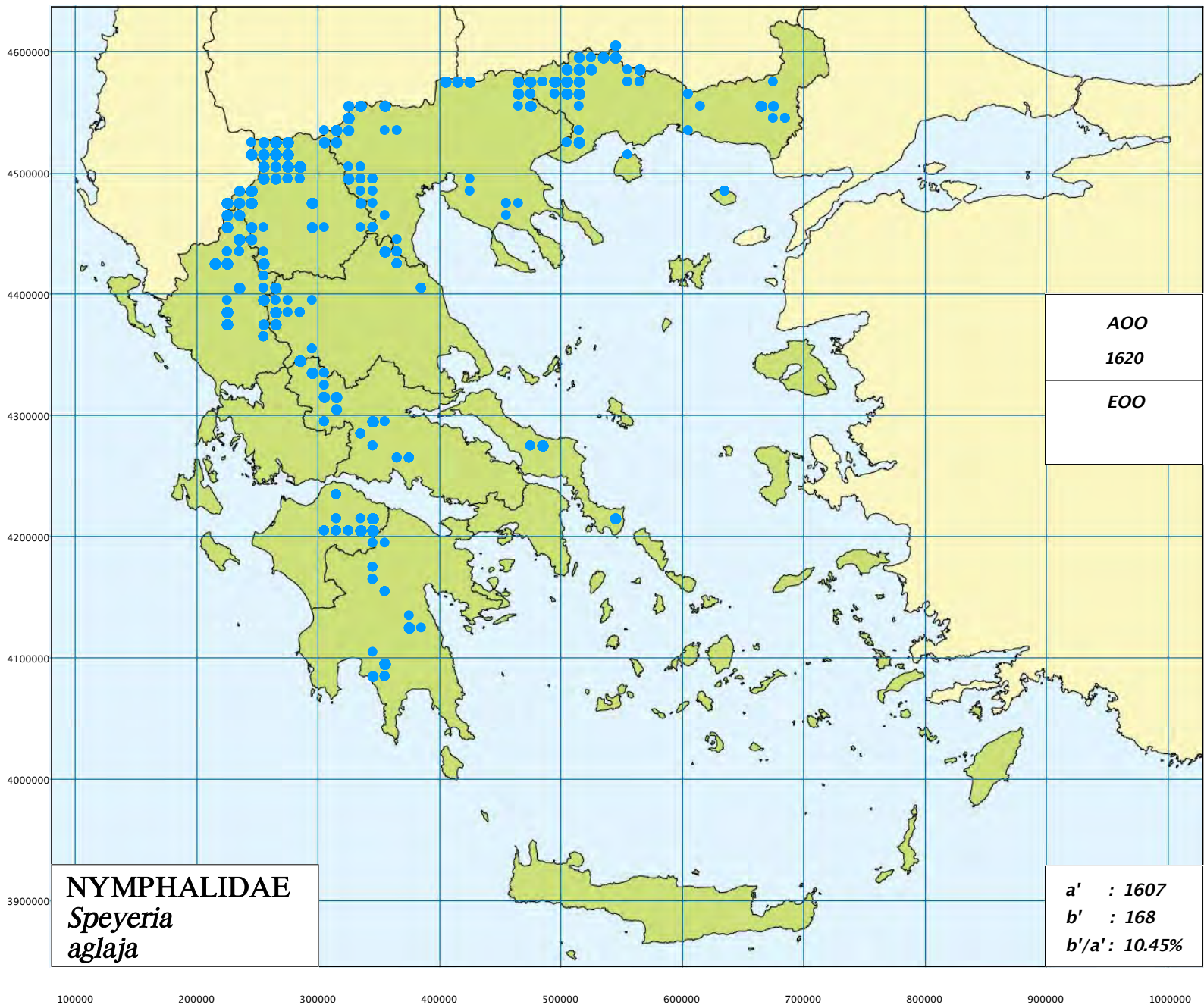




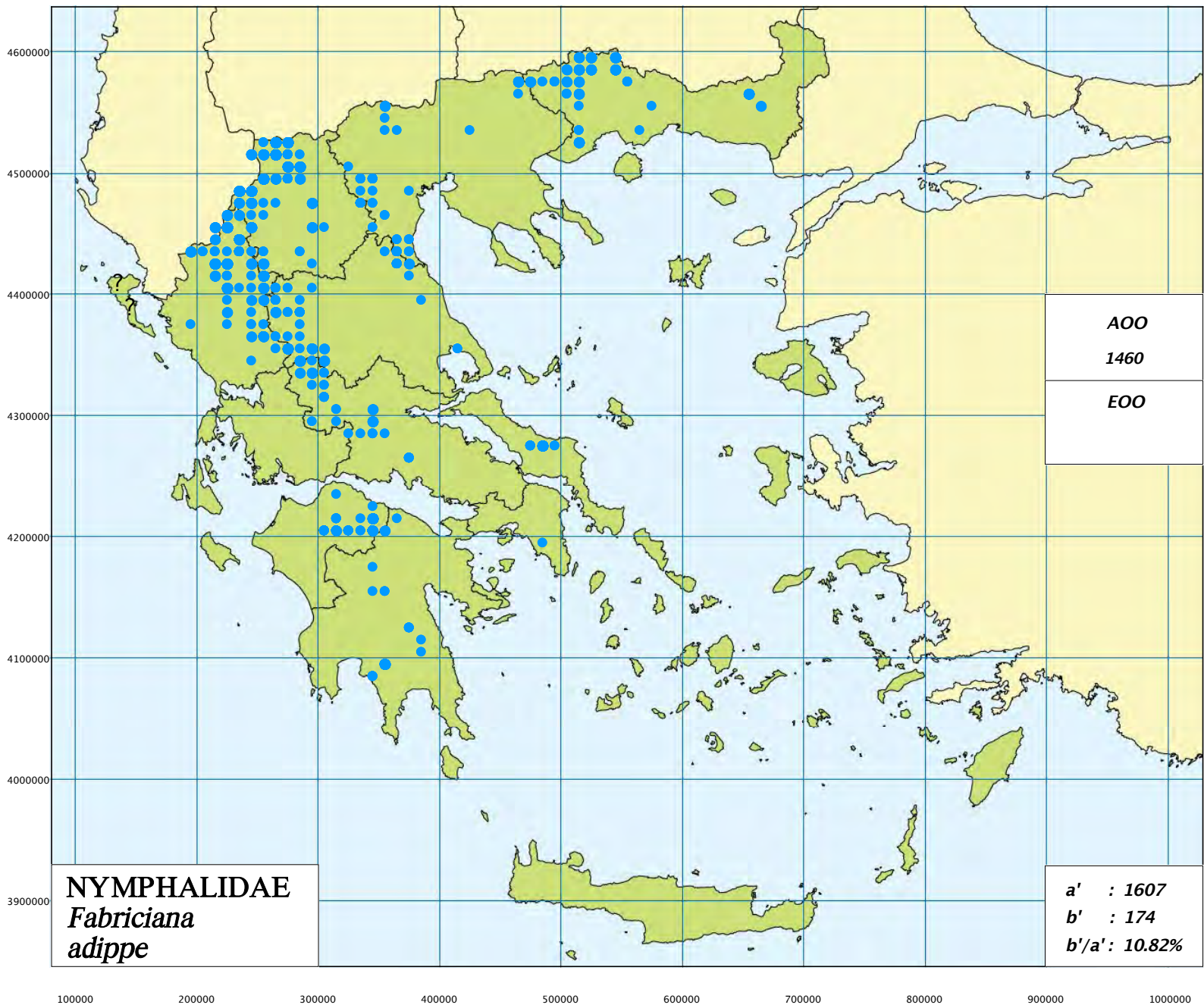


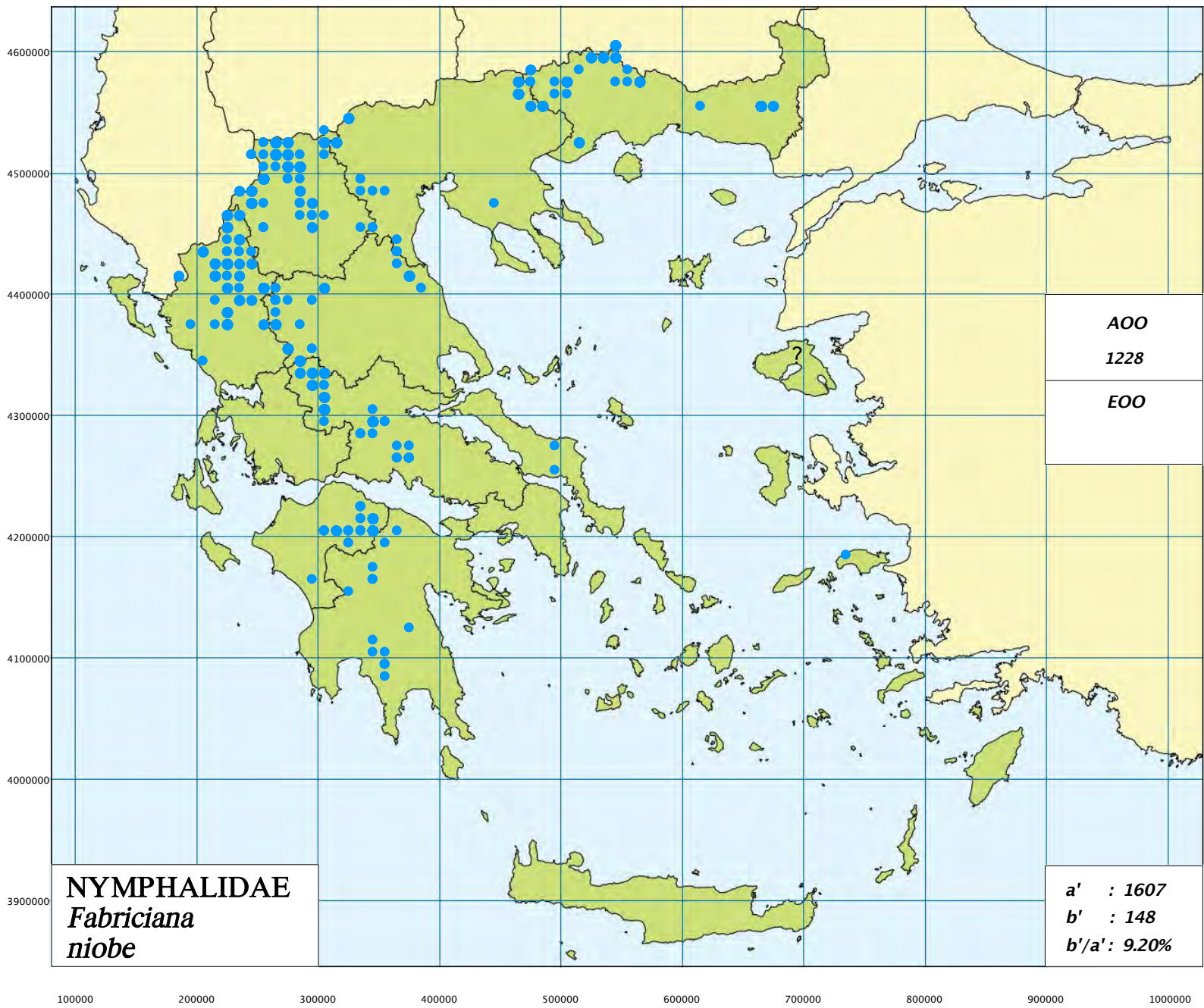




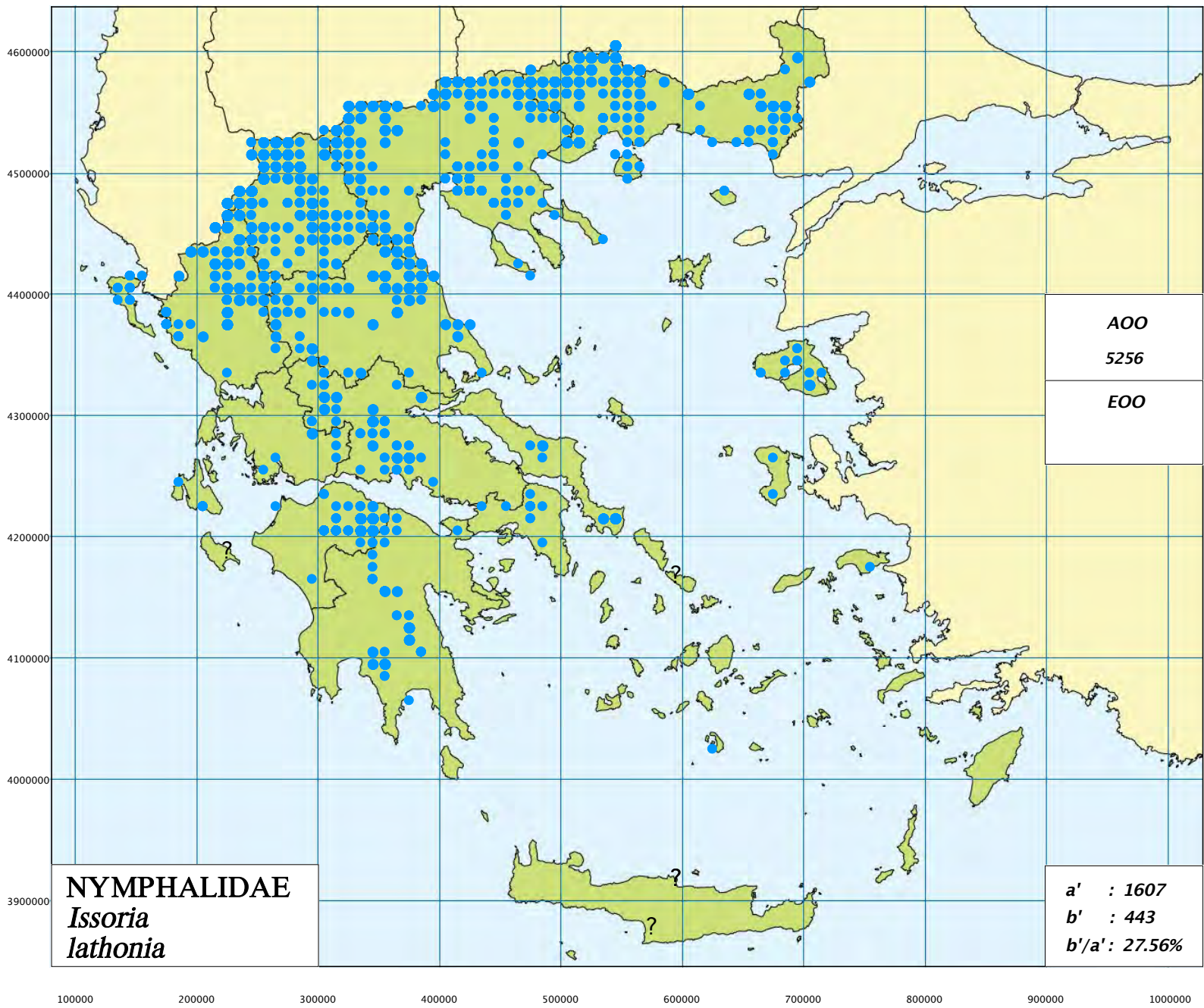


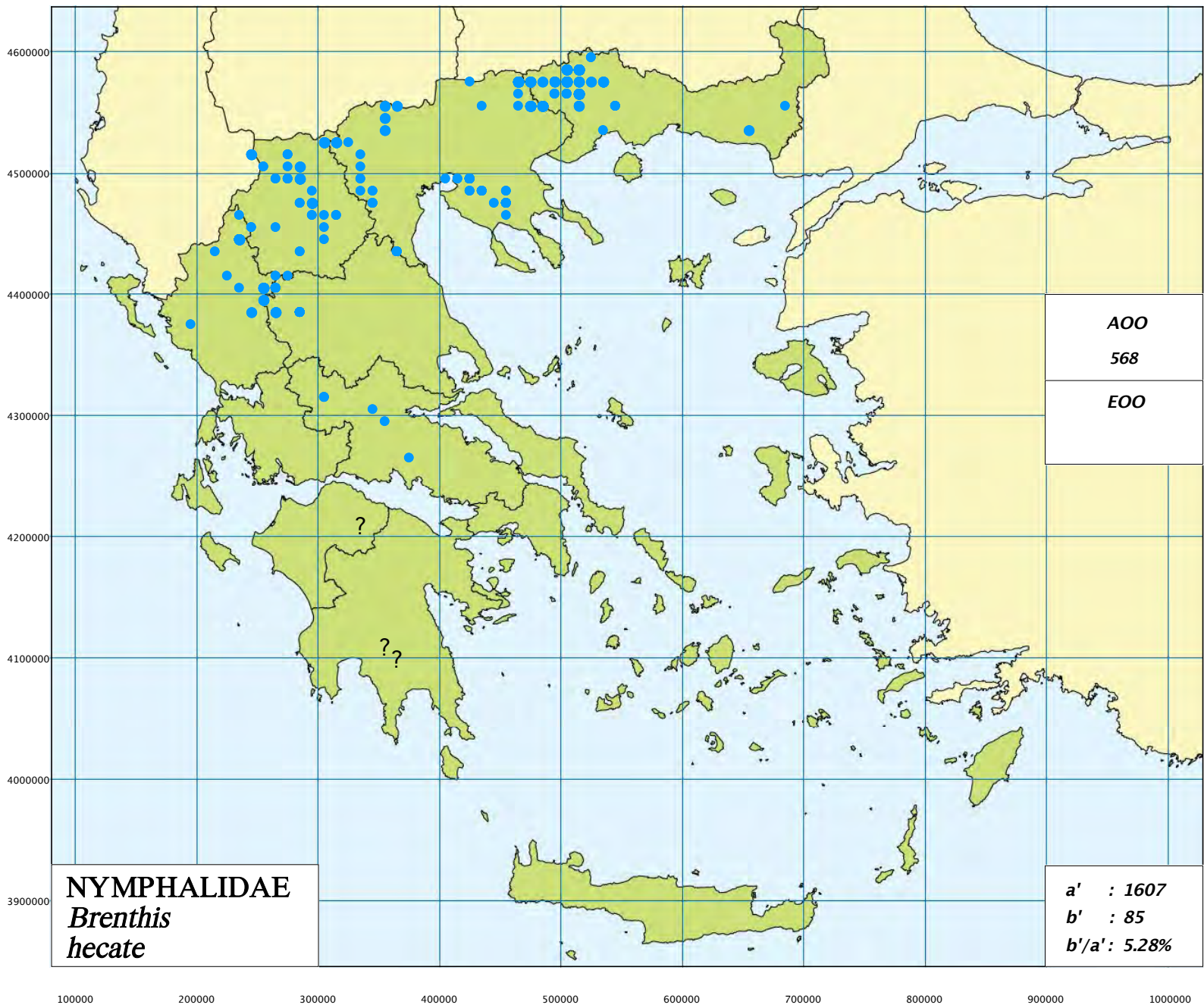




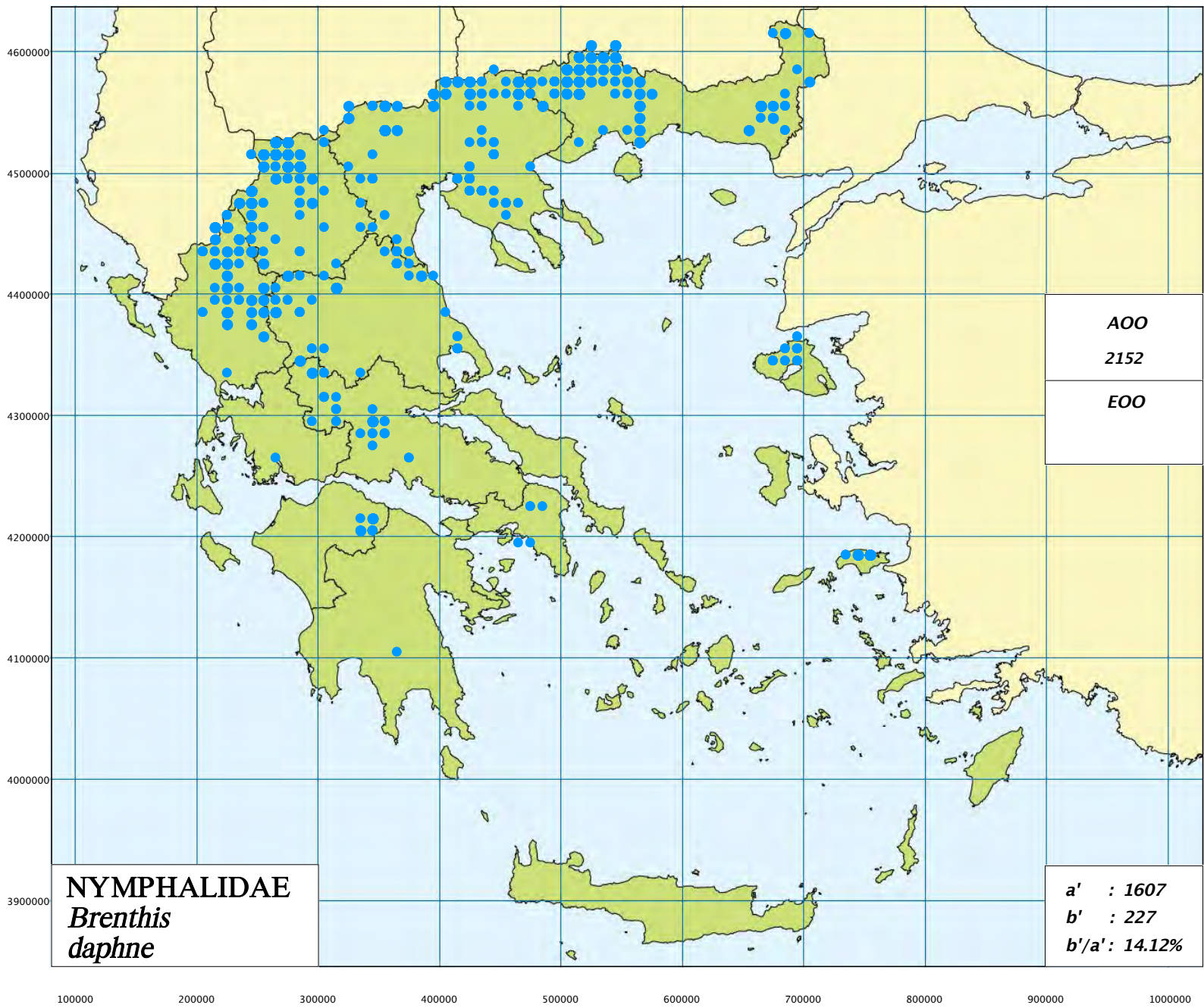


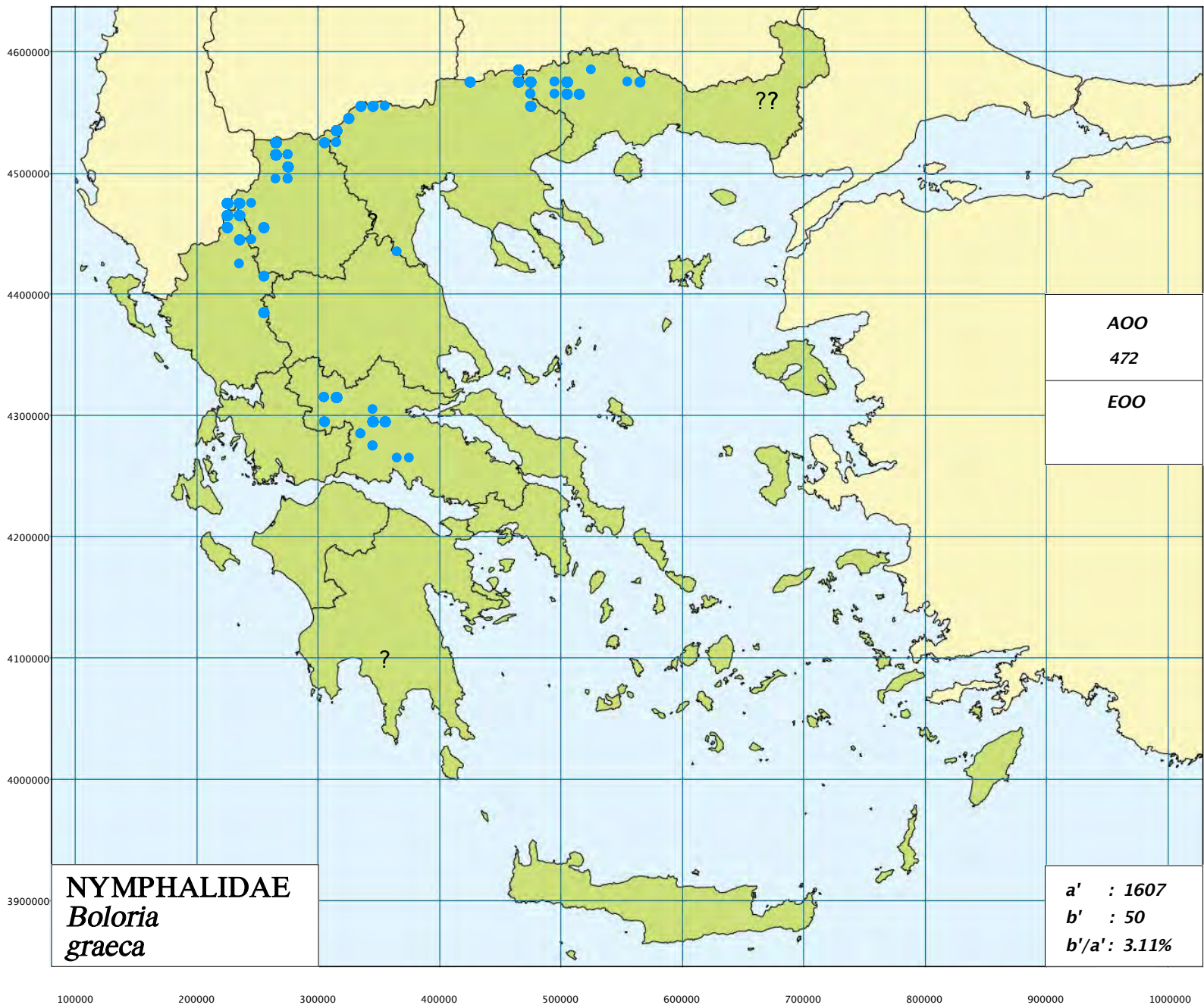




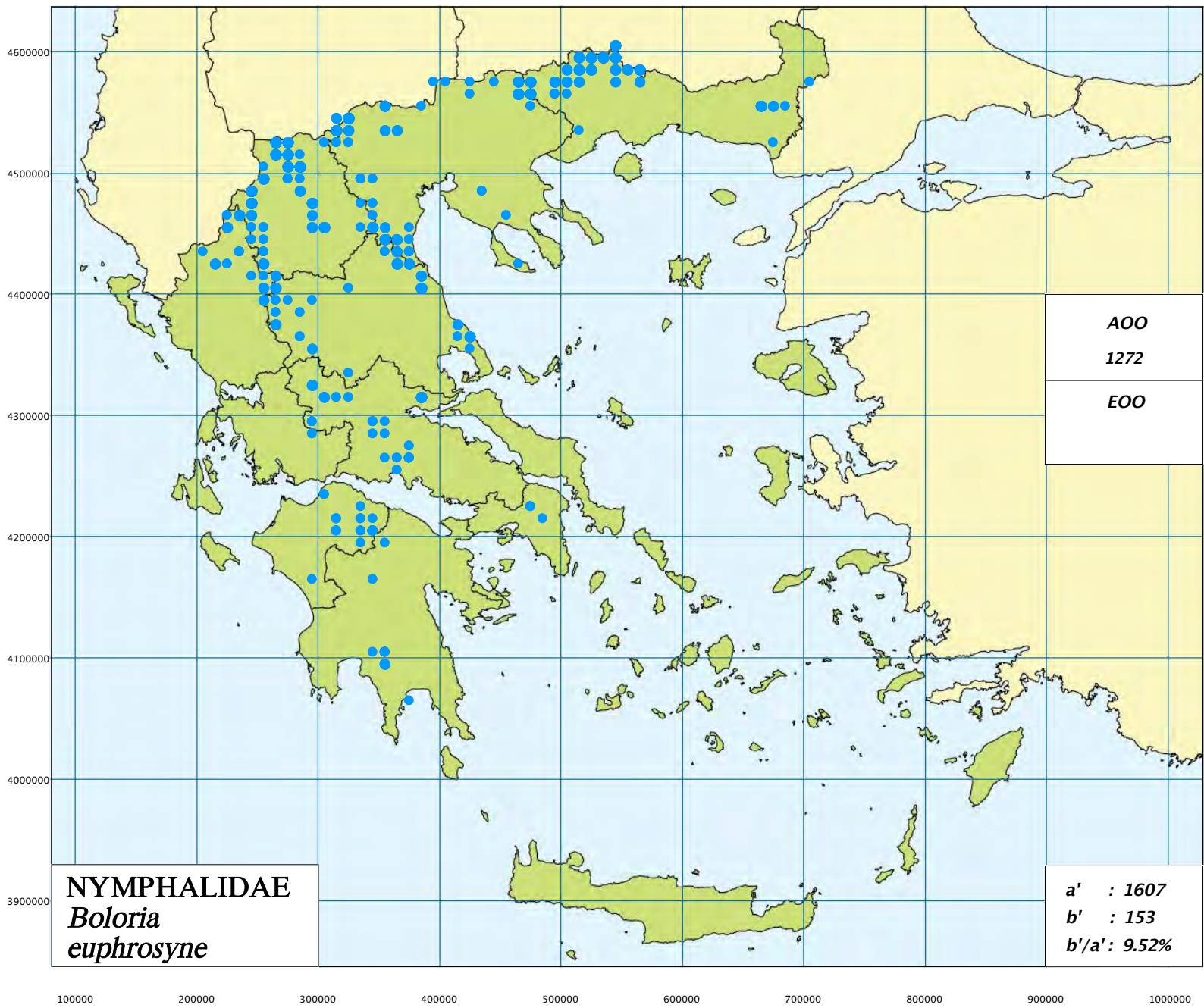


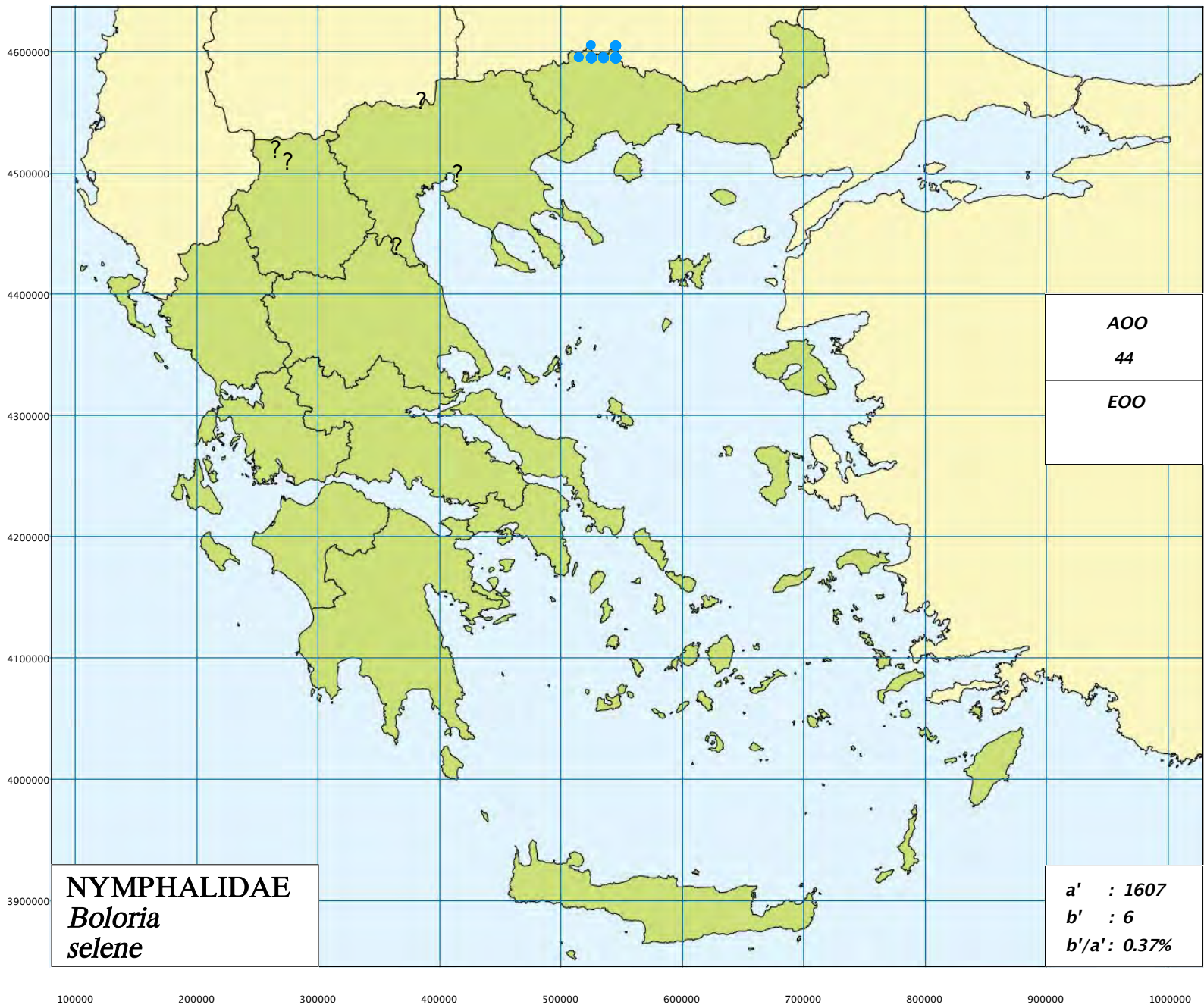




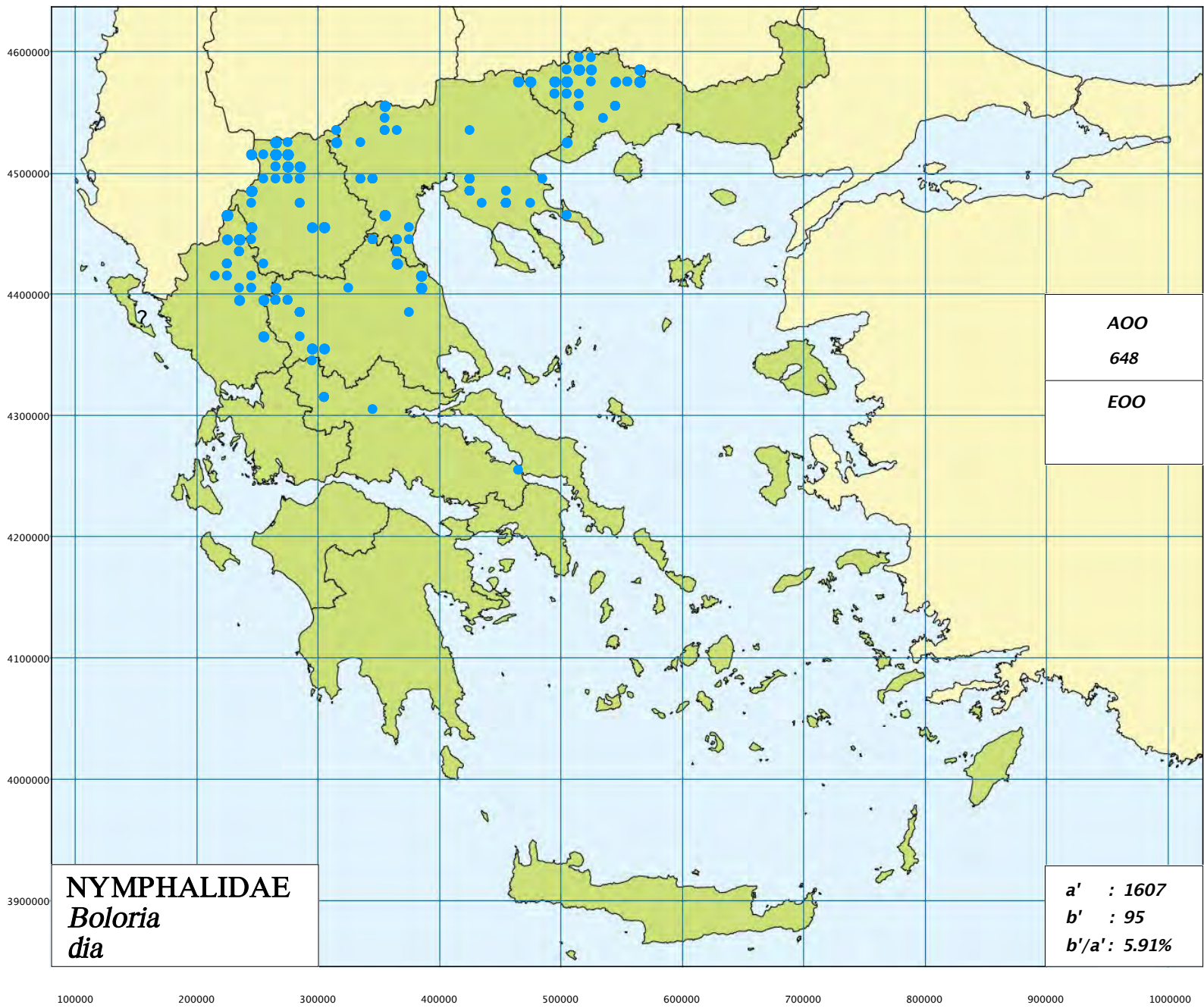


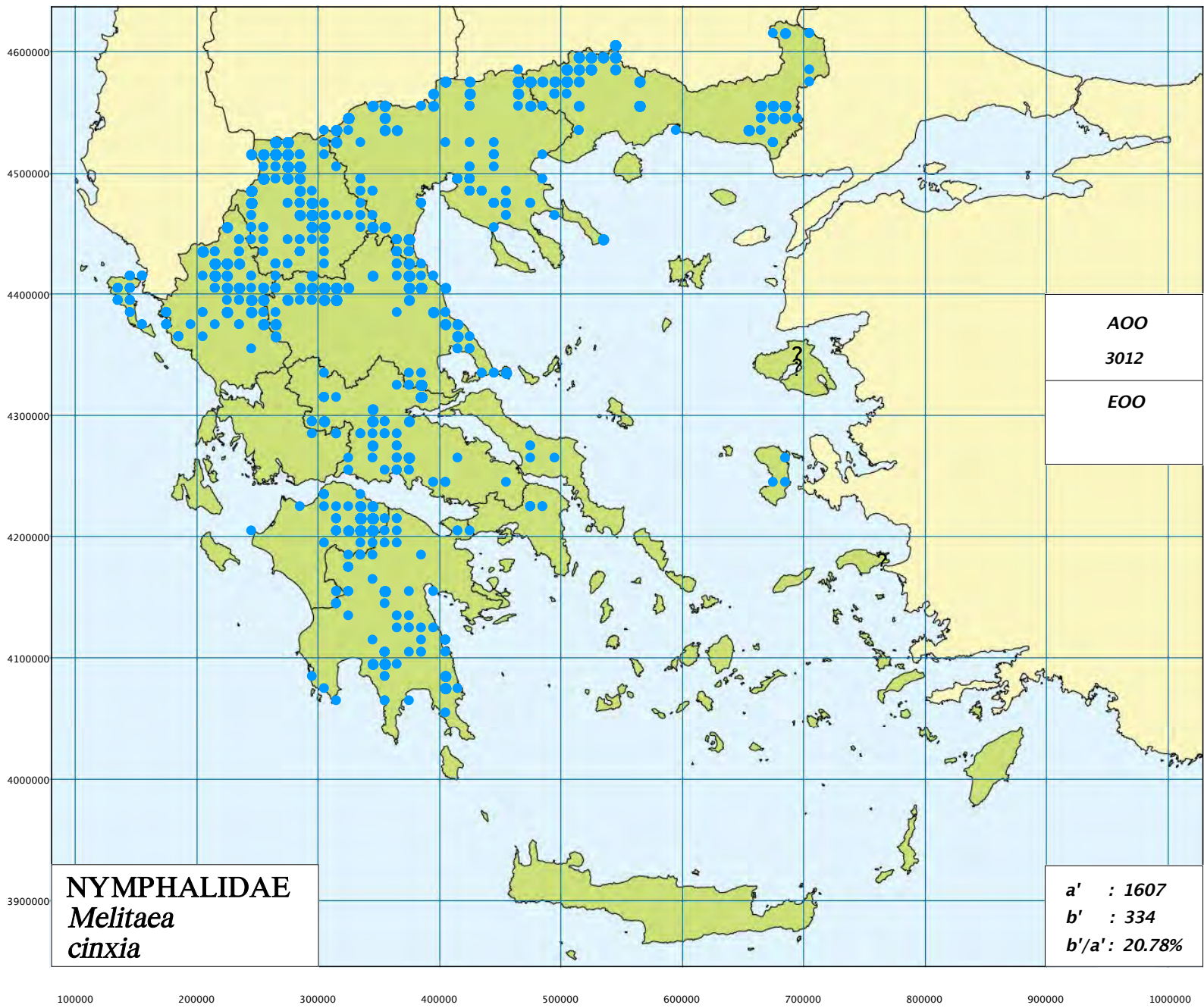




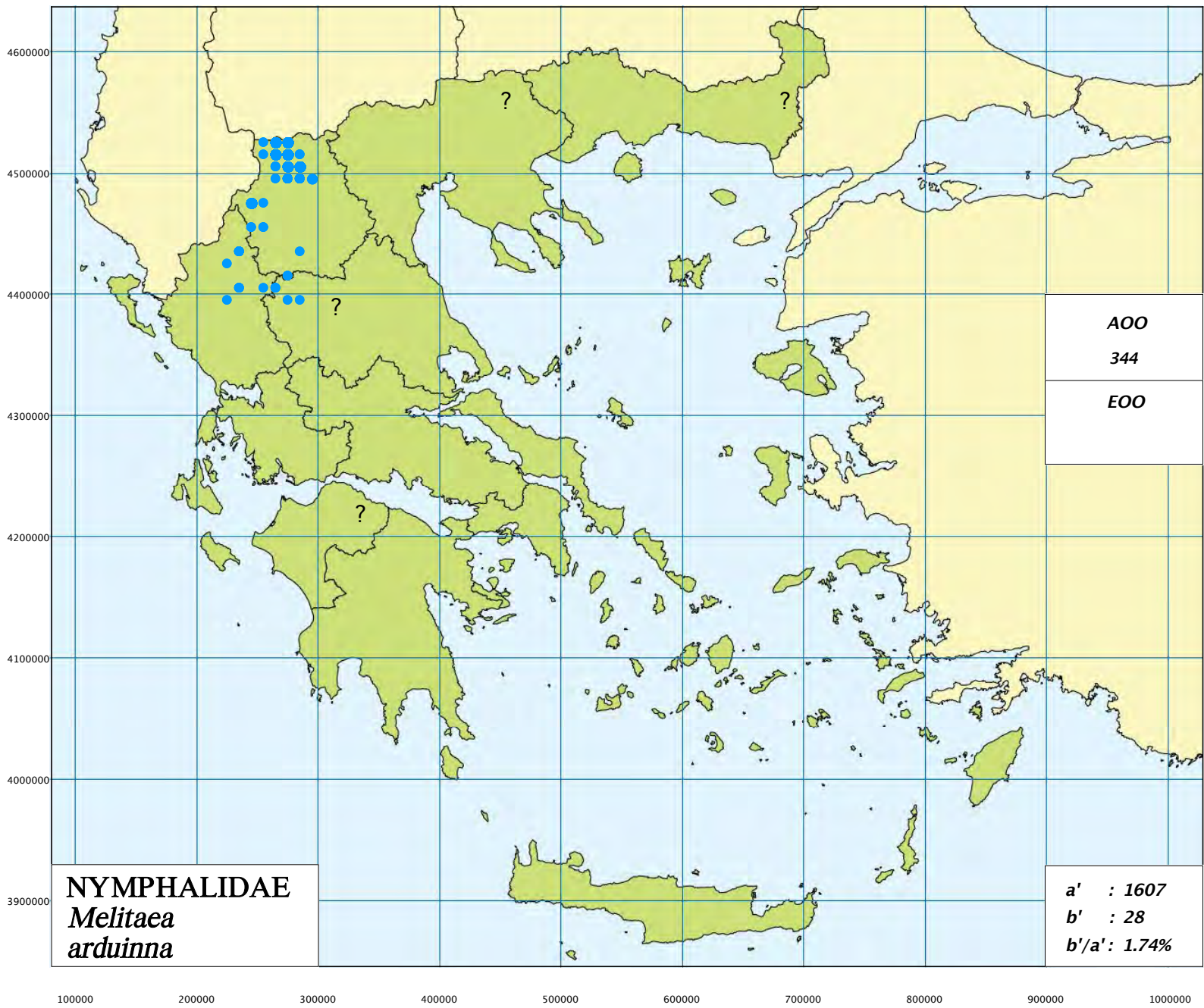


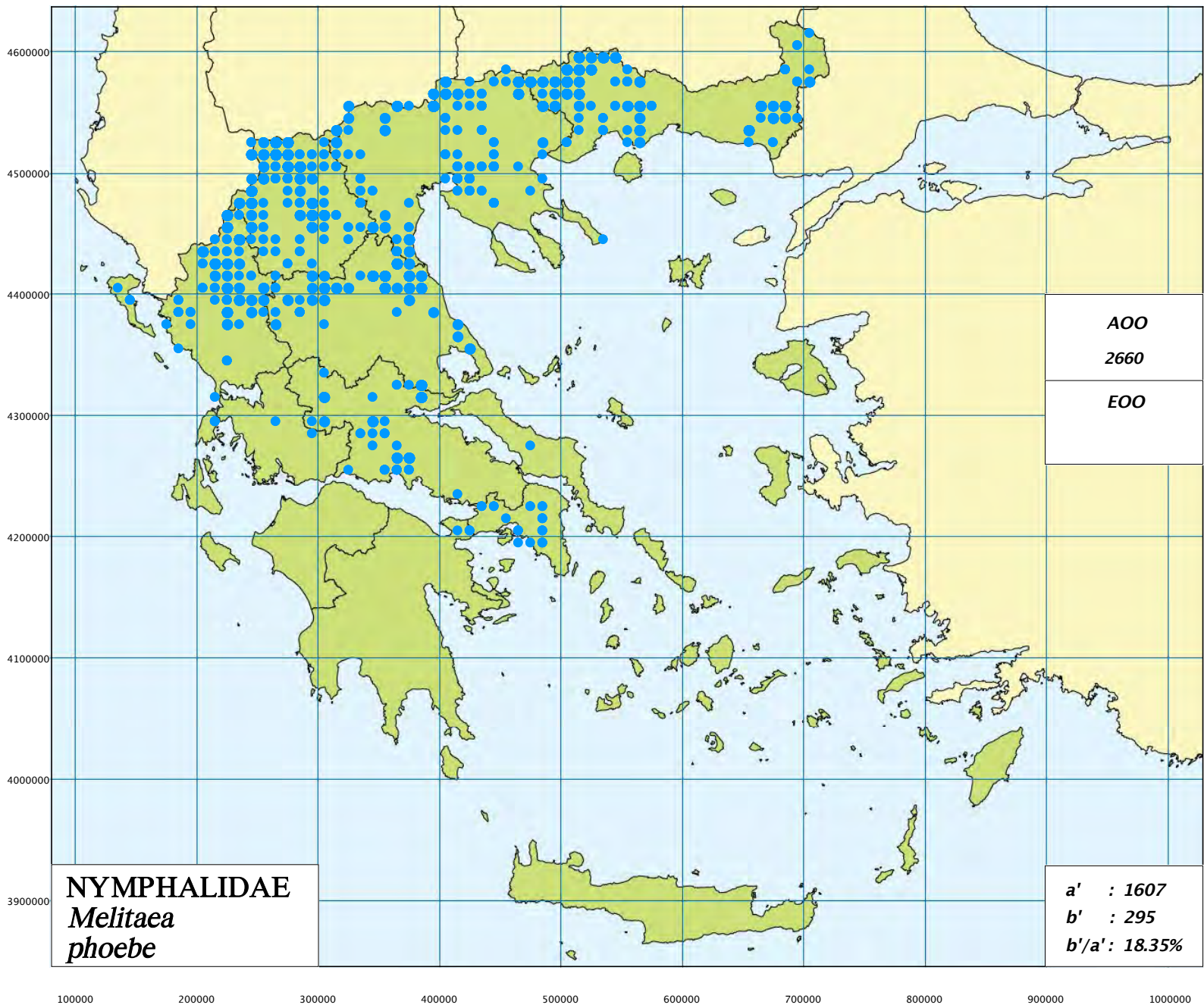






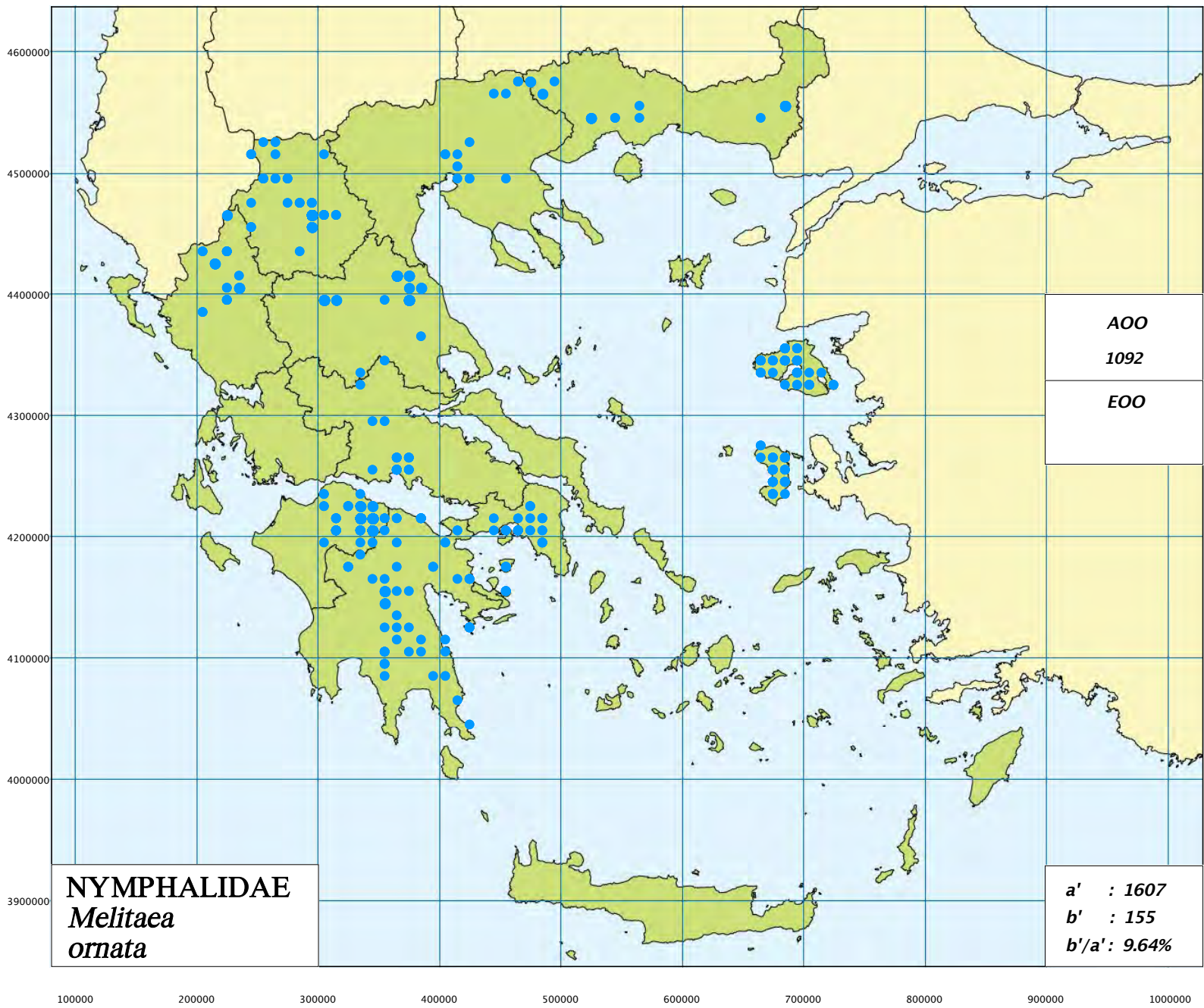




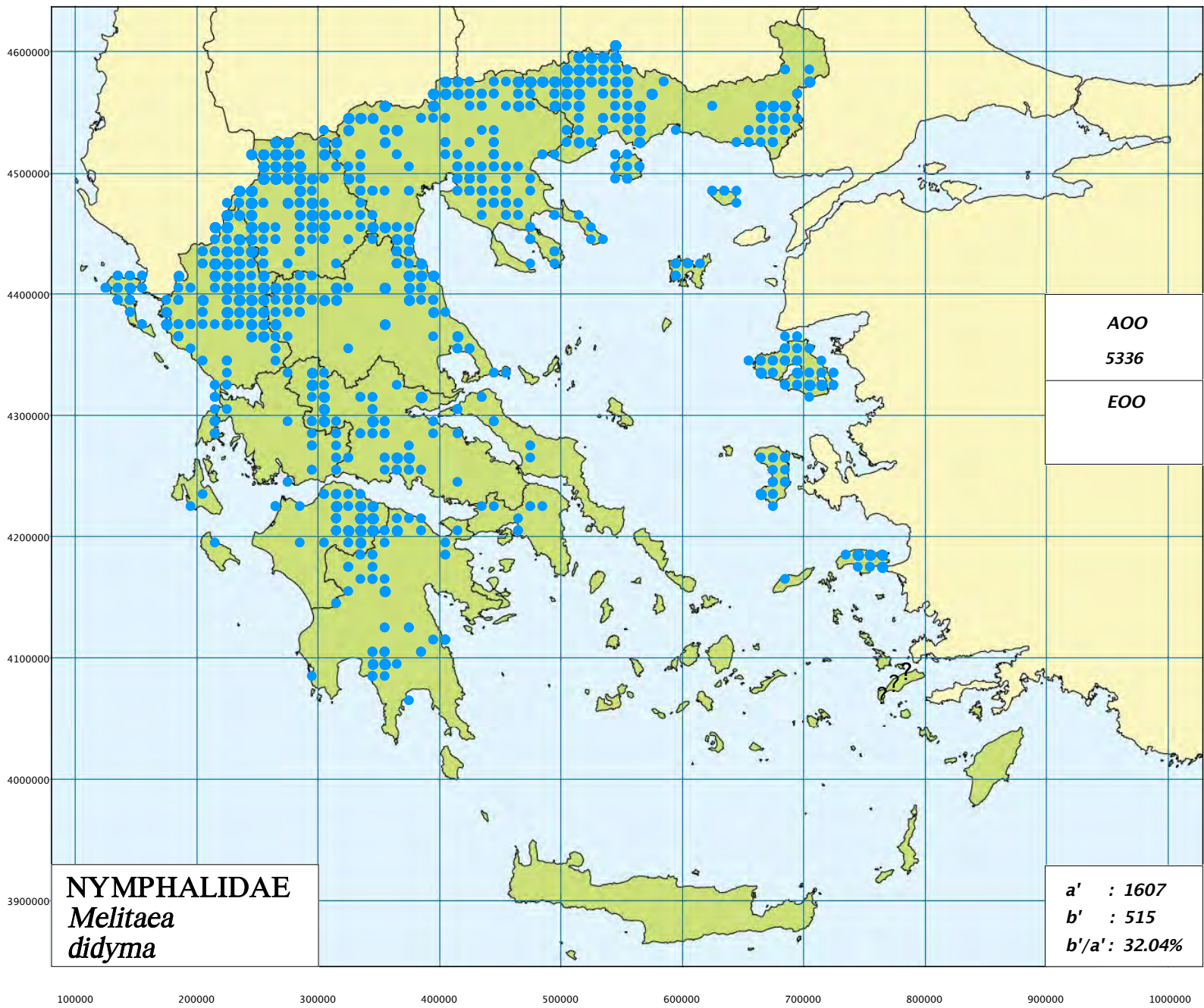


[http://www.pamperis.gr/PHOTOGRAPHS/Melitaea\\_phoebe,\\_Melitaea\\_ornata.html](http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_phoebe,_Melitaea_ornata.html)



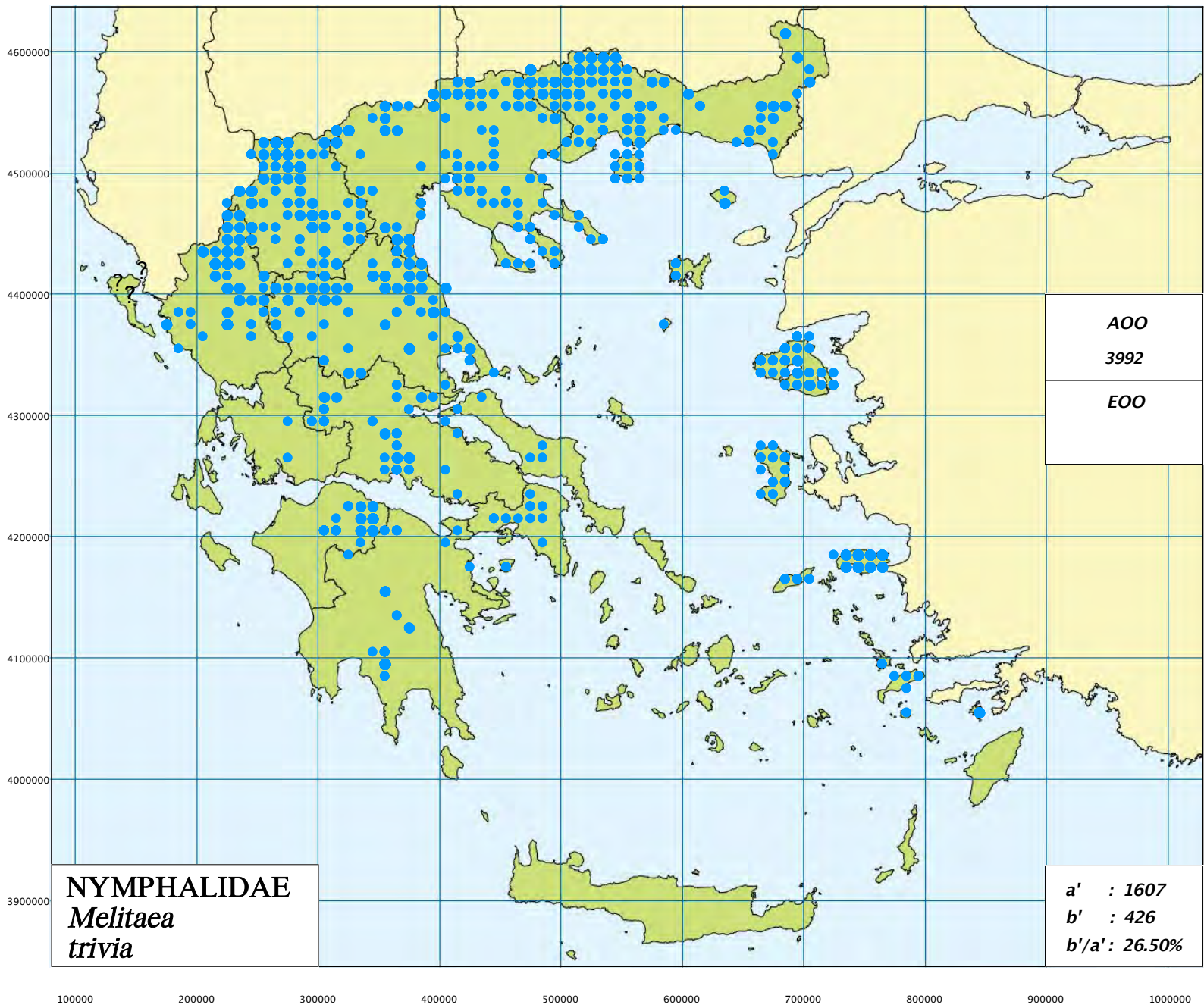


[http://www.pamperis.gr/PHOTOGRAPHS/Melitaea\\_phoebe,\\_Melitaea\\_ornata.html](http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_phoebe,_Melitaea_ornata.html)

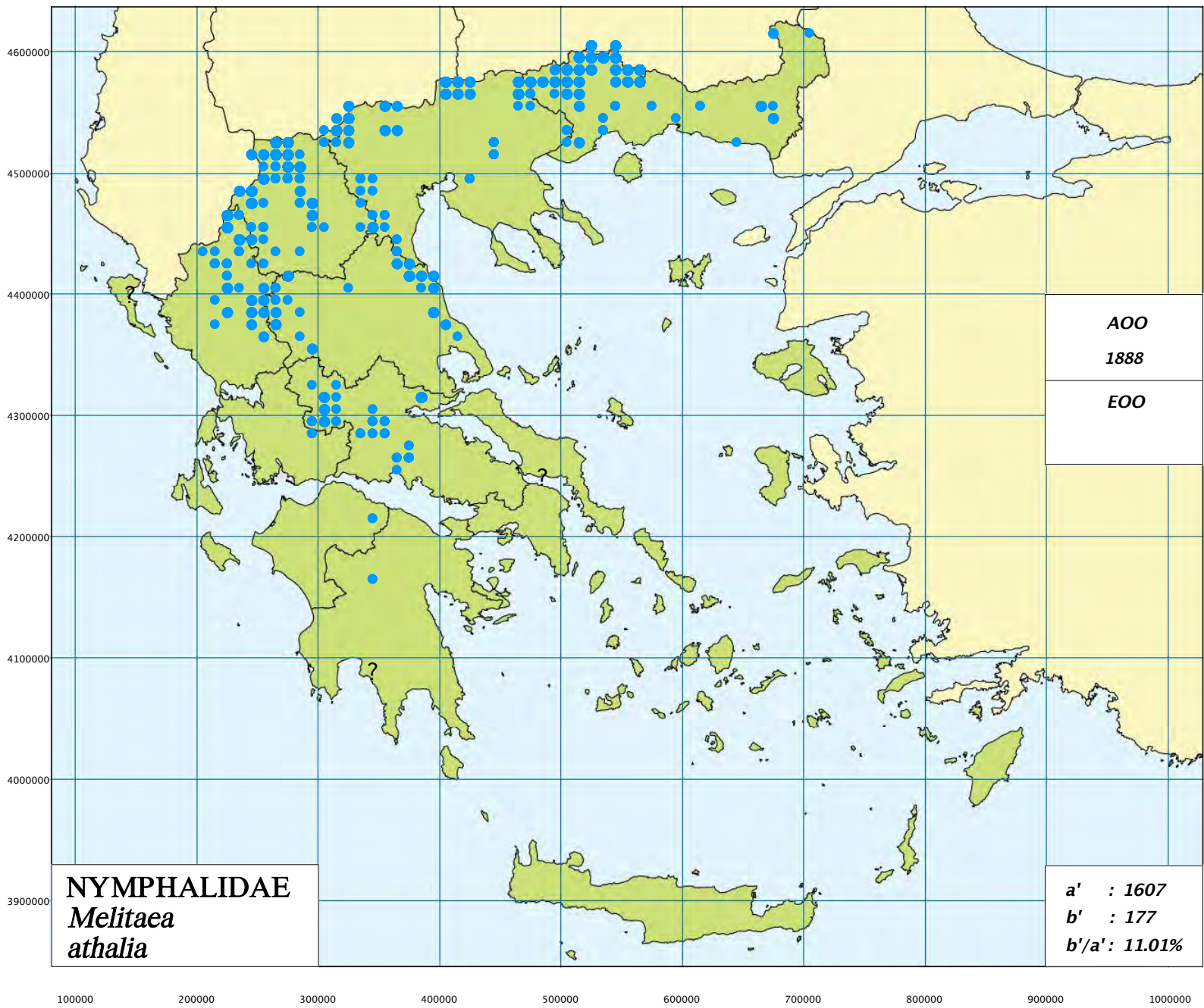


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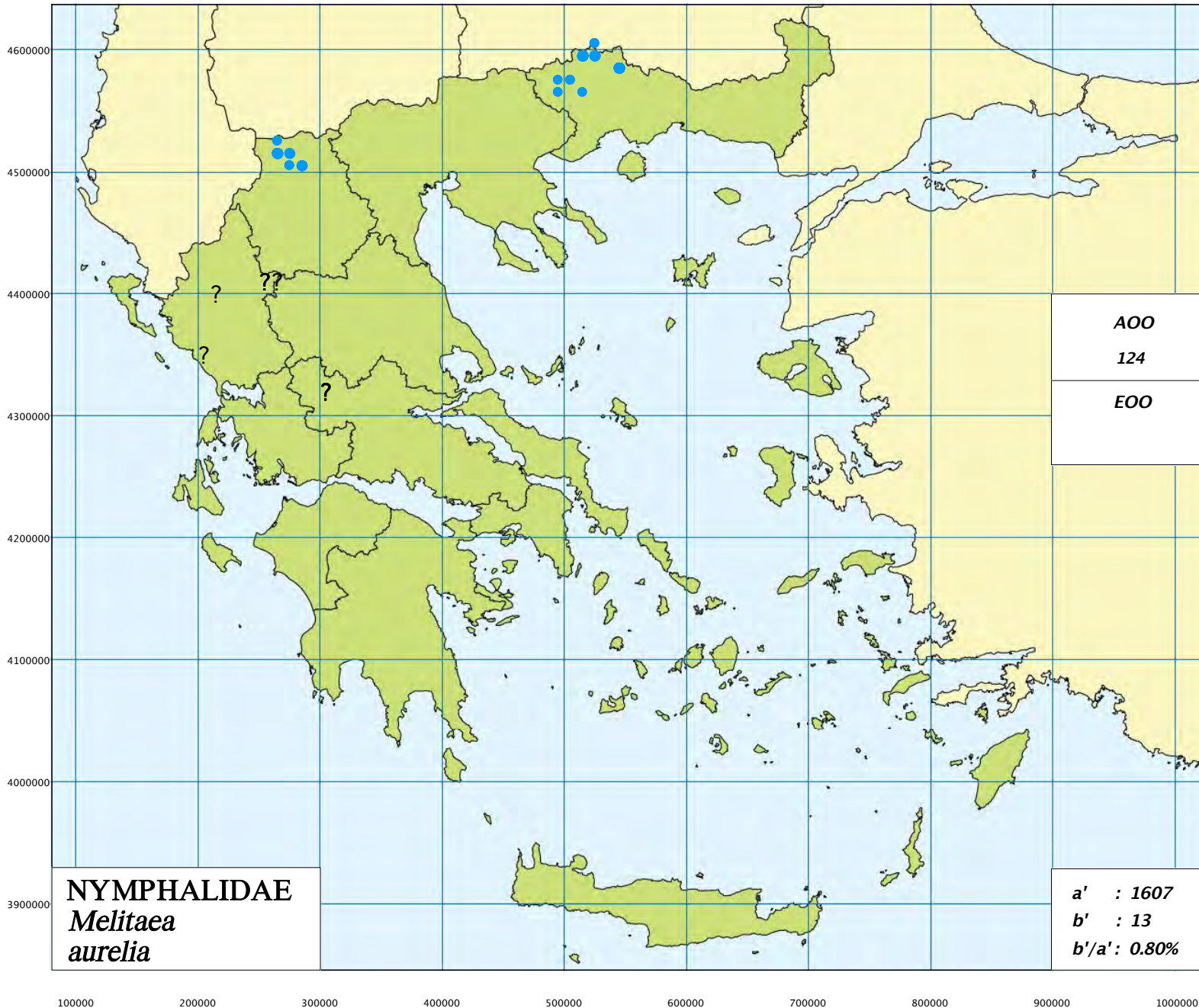


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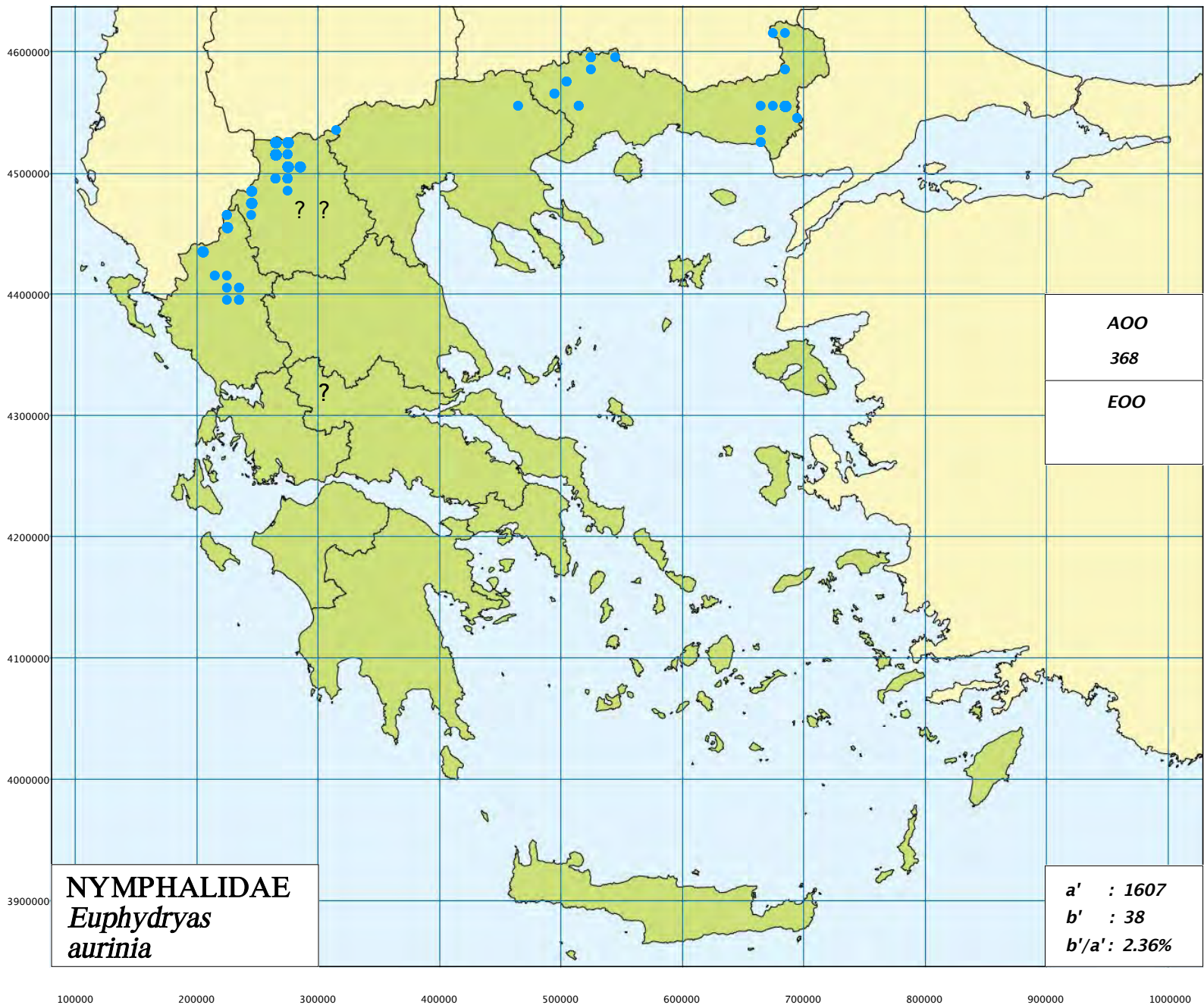


[http://www.pamperis.gr/PHOTOGRAPHS/Melitaea\\_athalia\\_aurelia\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_athalia_aurelia_complex.html)

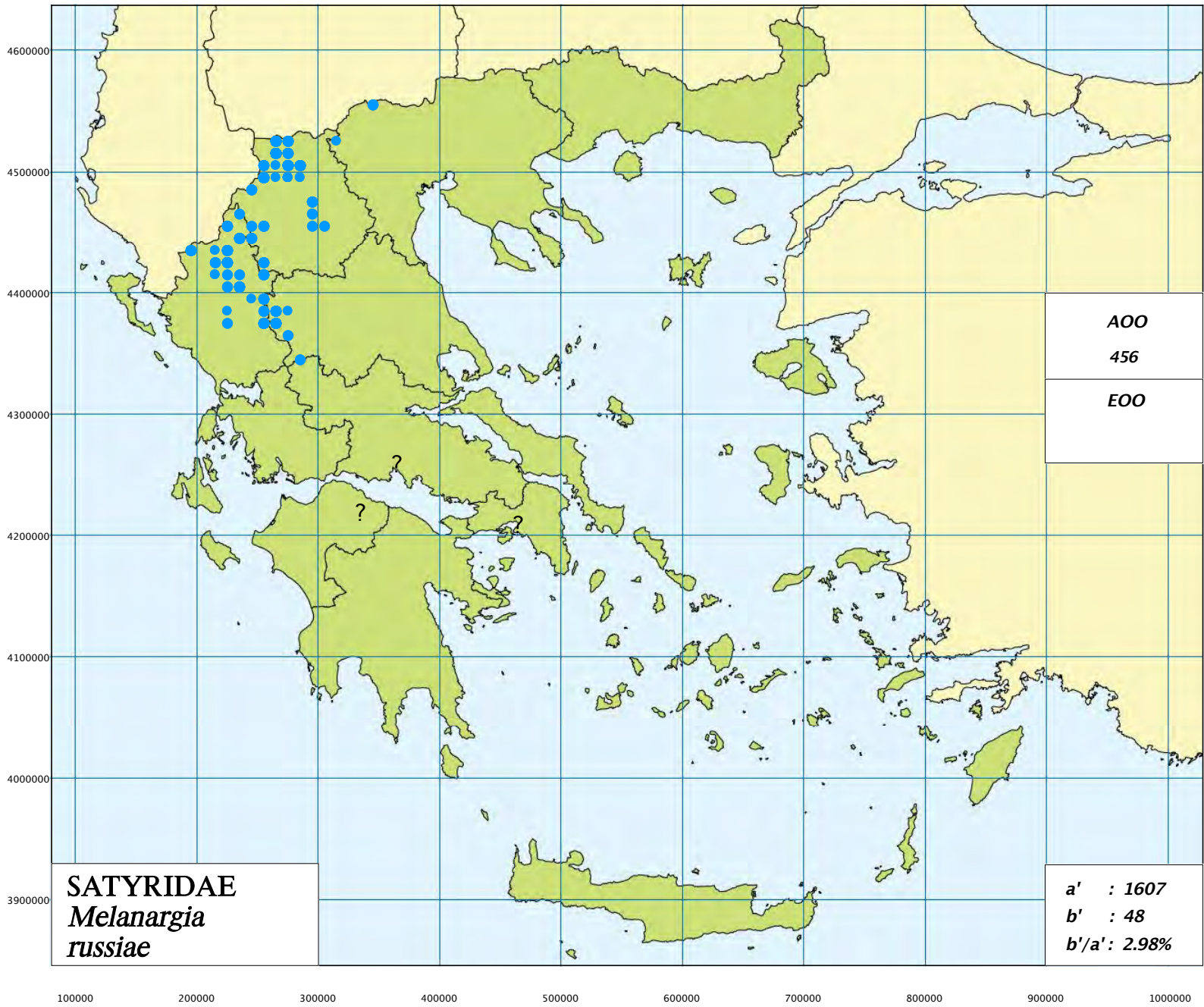


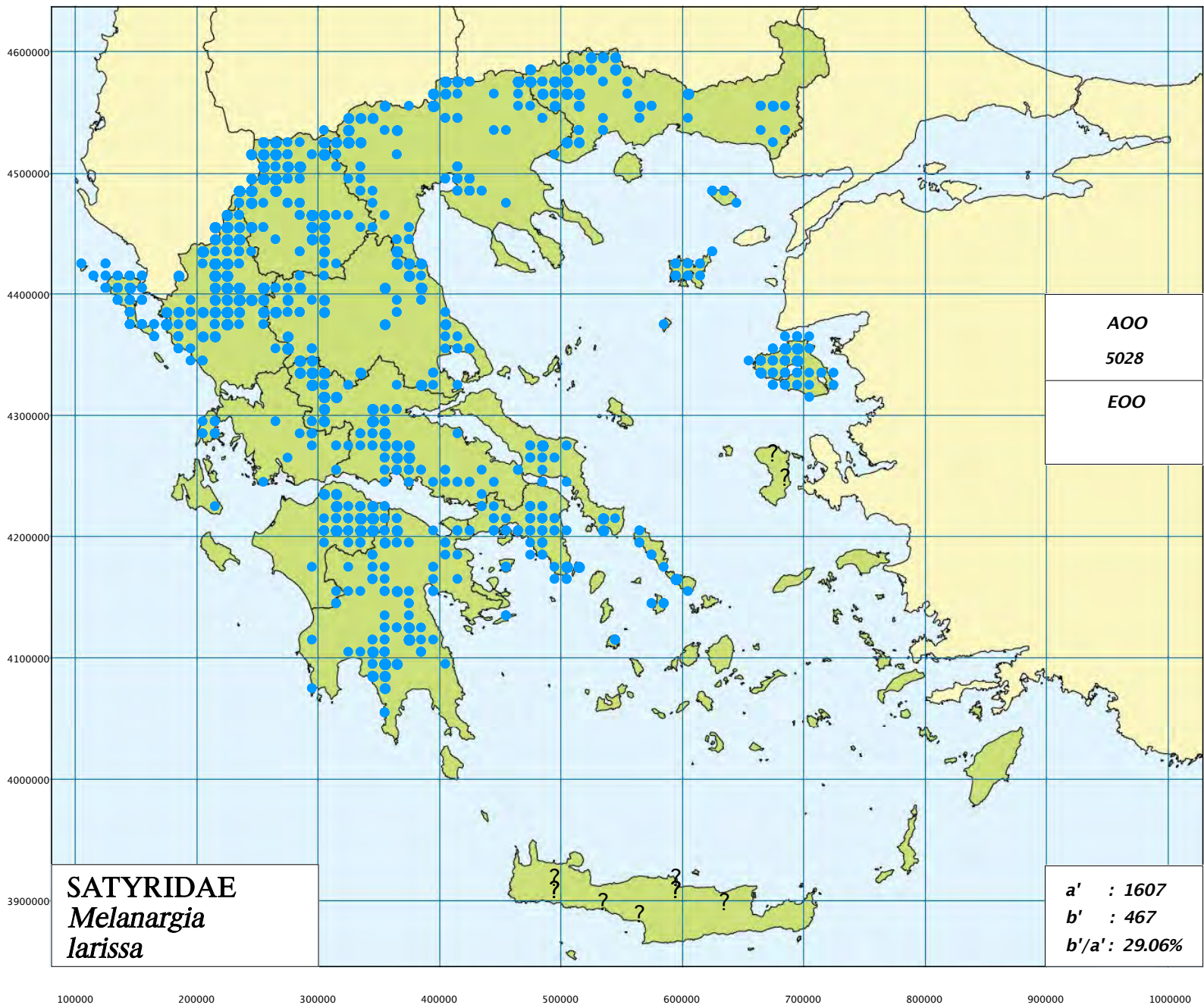


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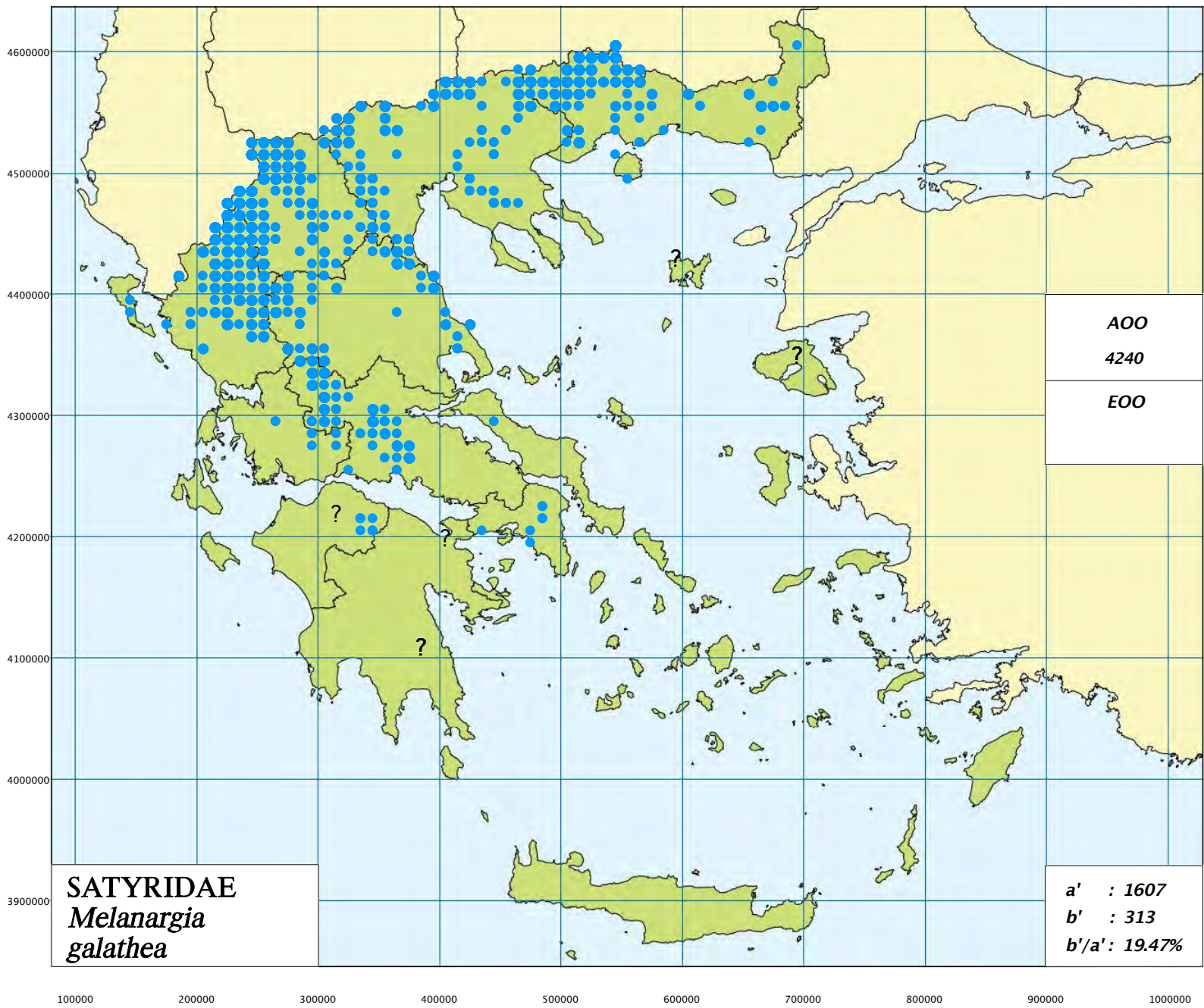


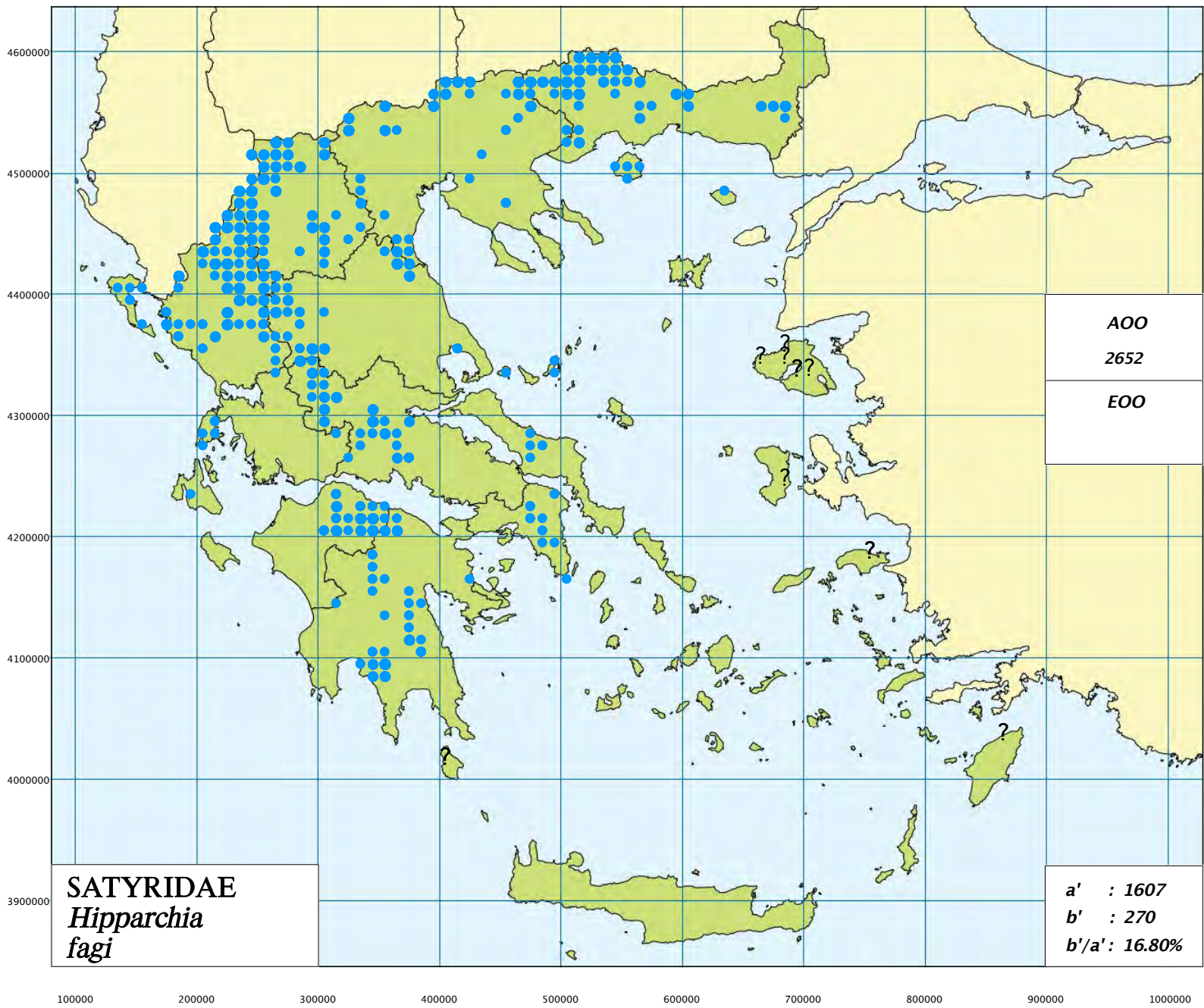






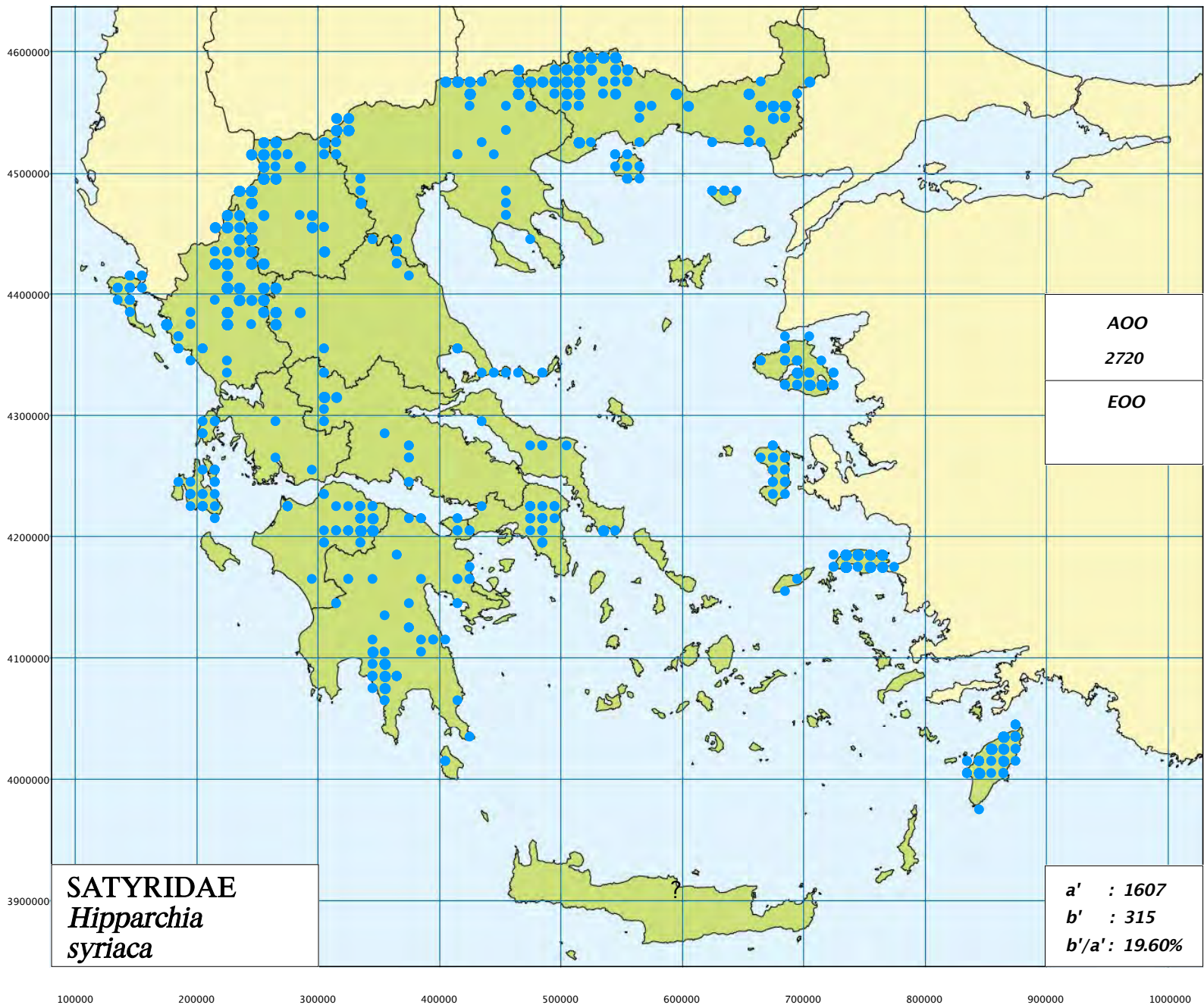






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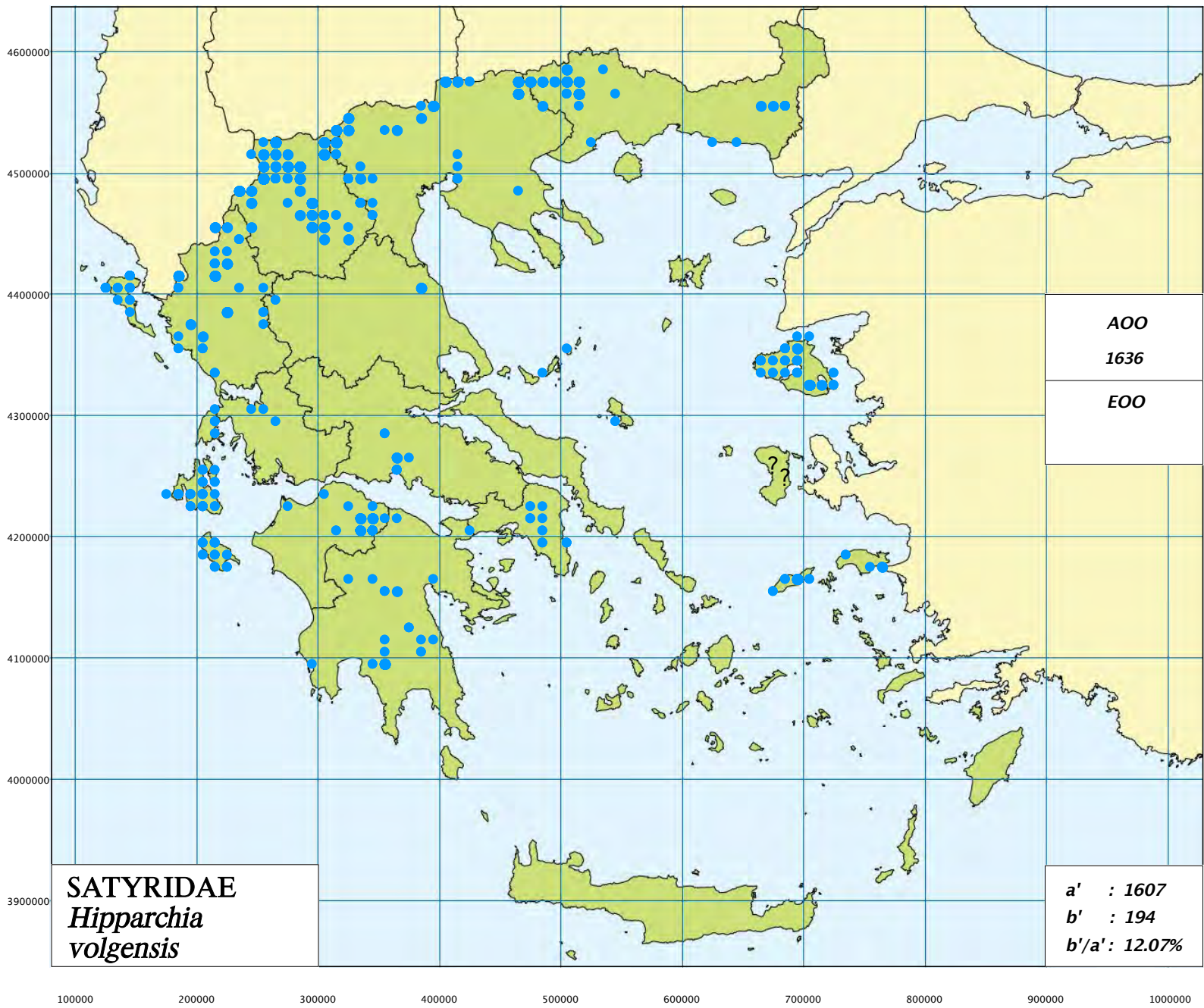
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Αμφίβολη αναγνώριση/  
Identification Uncertain



[http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia\\_senthes\\_volgensis\\_cretica\\_christenseni\\_mersina\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia_senthes_volgensis_cretica_christenseni_mersina_complex.html)





Αμφίβολη αναγνώριση/  
Identification Uncertain

All records of *Hipparchia pellucida*, which is found that is not present in Greece (see in COUTSIS J. G. & BOZANO G. C.: The true identity of butterflies originally recorded as *Hipparchia* (*Parahipparchia*) *pellucida* (Stauder, 1923) from the Eastern Aegean Greek islands of Lézvos and Ikária (Lepidoptera: Nymphalidae, Satyrinae). *Phegea* 46(3): 106-109. ) that is for some Islands of eastern Aegean (Lesvos, Ikaria, Chios and Samos) are included temporarily in this Map of *Hipparchia volgensis*, as records of *Hipparchia volgensis*.

Όλες οι αναφορές για το *Hipparchia pellucida*, το οποίο βρέθηκε ότι δεν υπάρχει στην Ελλάδα (δες στο COUTSIS J. G. & BOZANO G. C.: The true identity of butterflies originally recorded as *Hipparchia* (*Parahipparchia*) *pellucida* (Stauder, 1923) from the Eastern Aegean Greek islands of Lézvos and Ikária (Lepidoptera: Nymphalidae, Satyrinae). *Phegea* 46(3): 106-109. ) δηλαδή για κάποια νησιά του Ανατολικού Αιγαίου (Λέσβος, Ικάρια, Χίος και Σάμος) έχουν συμπεριληφθεί προσωρινά σε αυτό τον χάρτη για το *Hipparchia volgensis* σαν καταγραφές του *Hipparchia volgensis*.

**ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE**



[http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia\\_sentes\\_volgensis\\_cretica\\_christenseni\\_mersina\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia_sentes_volgensis_cretica_christenseni_mersina_complex.html)



ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE

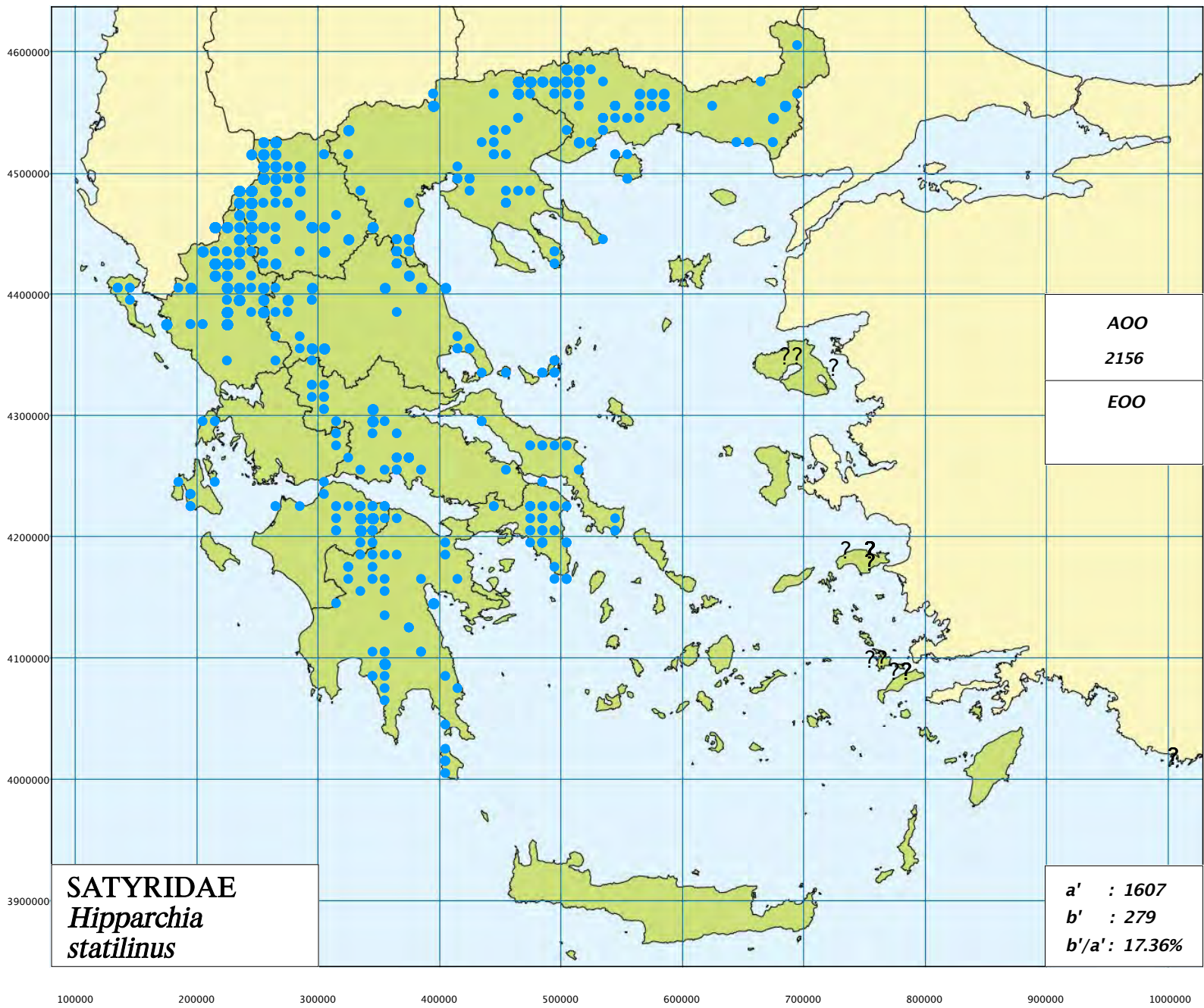


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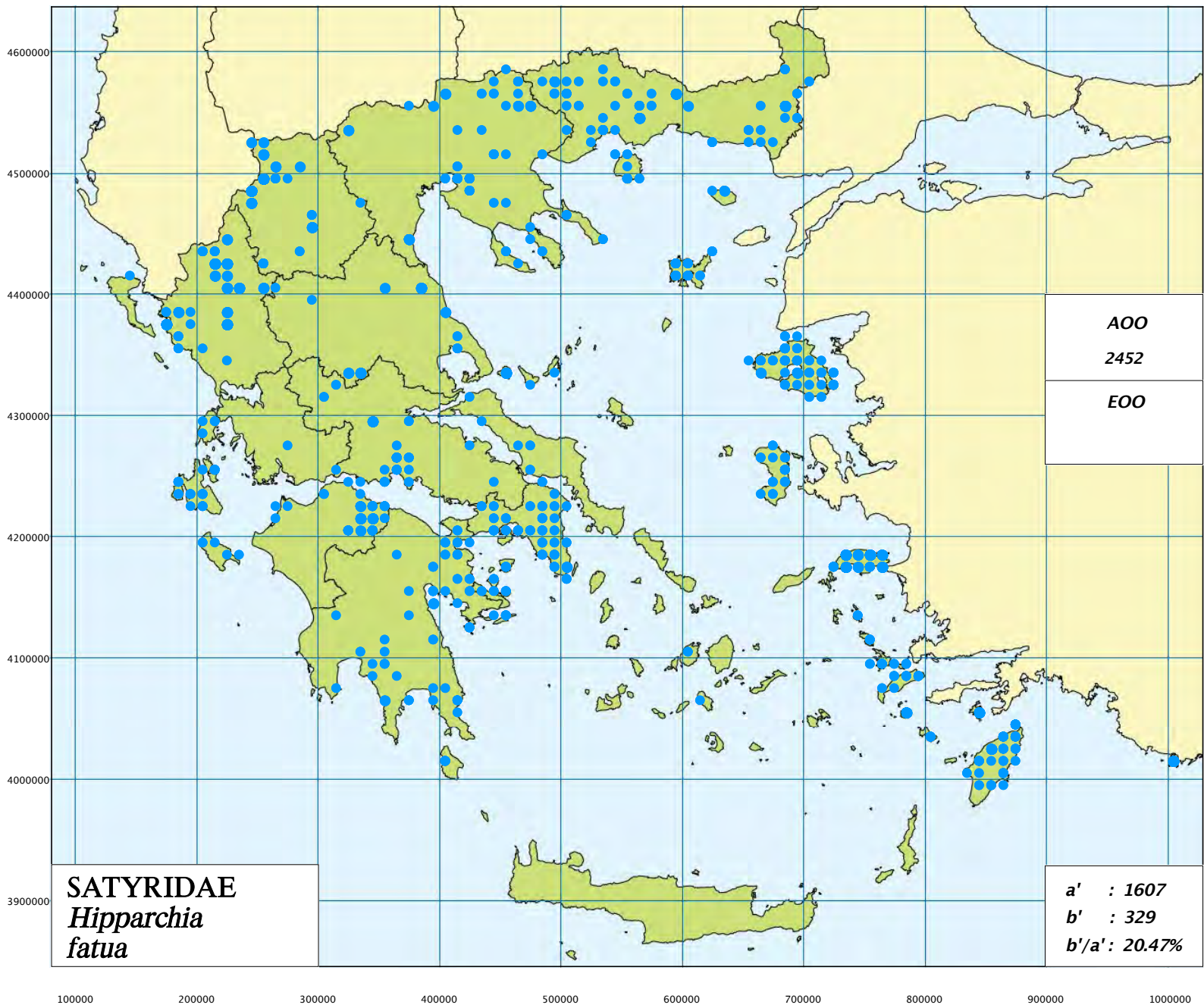


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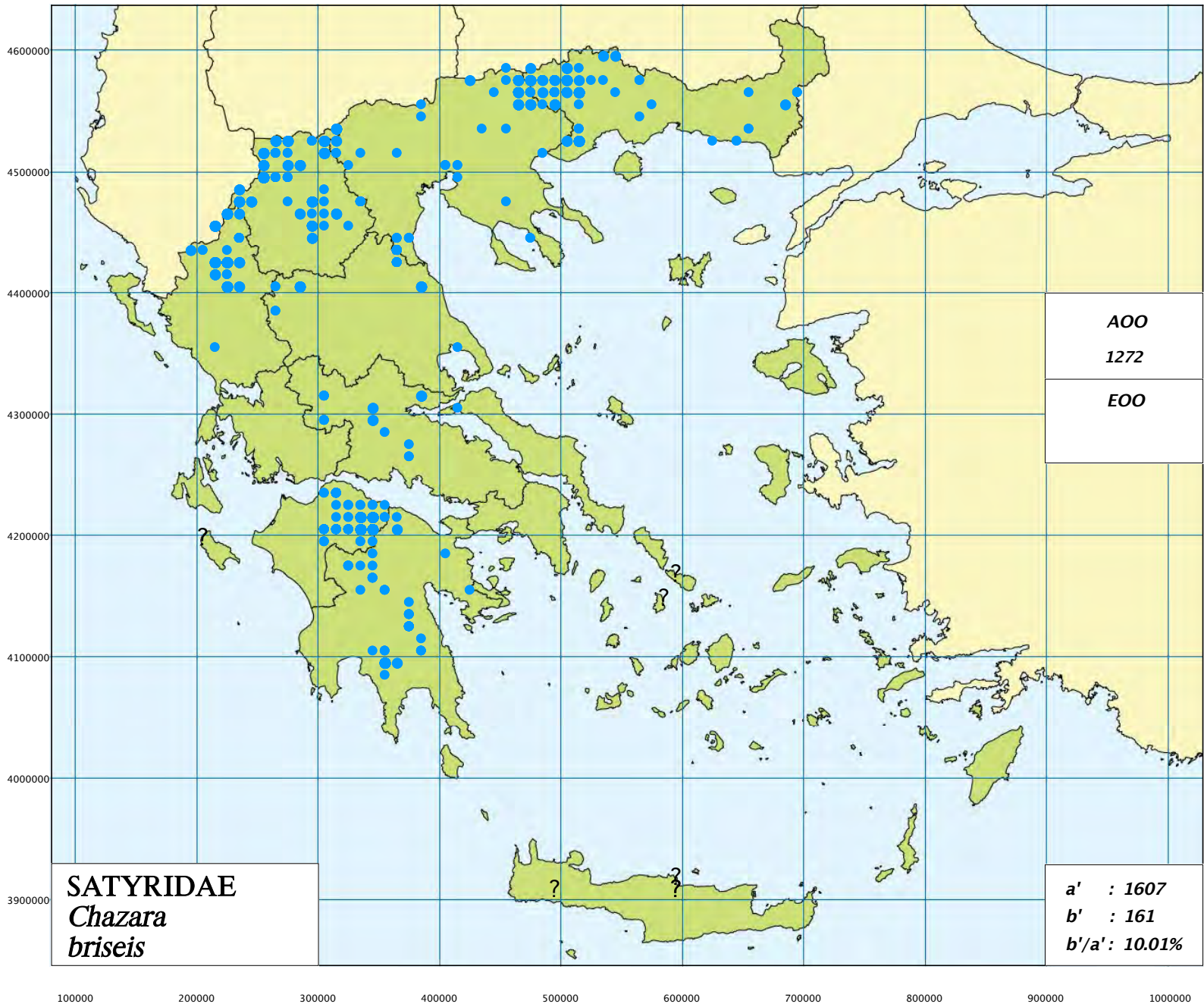


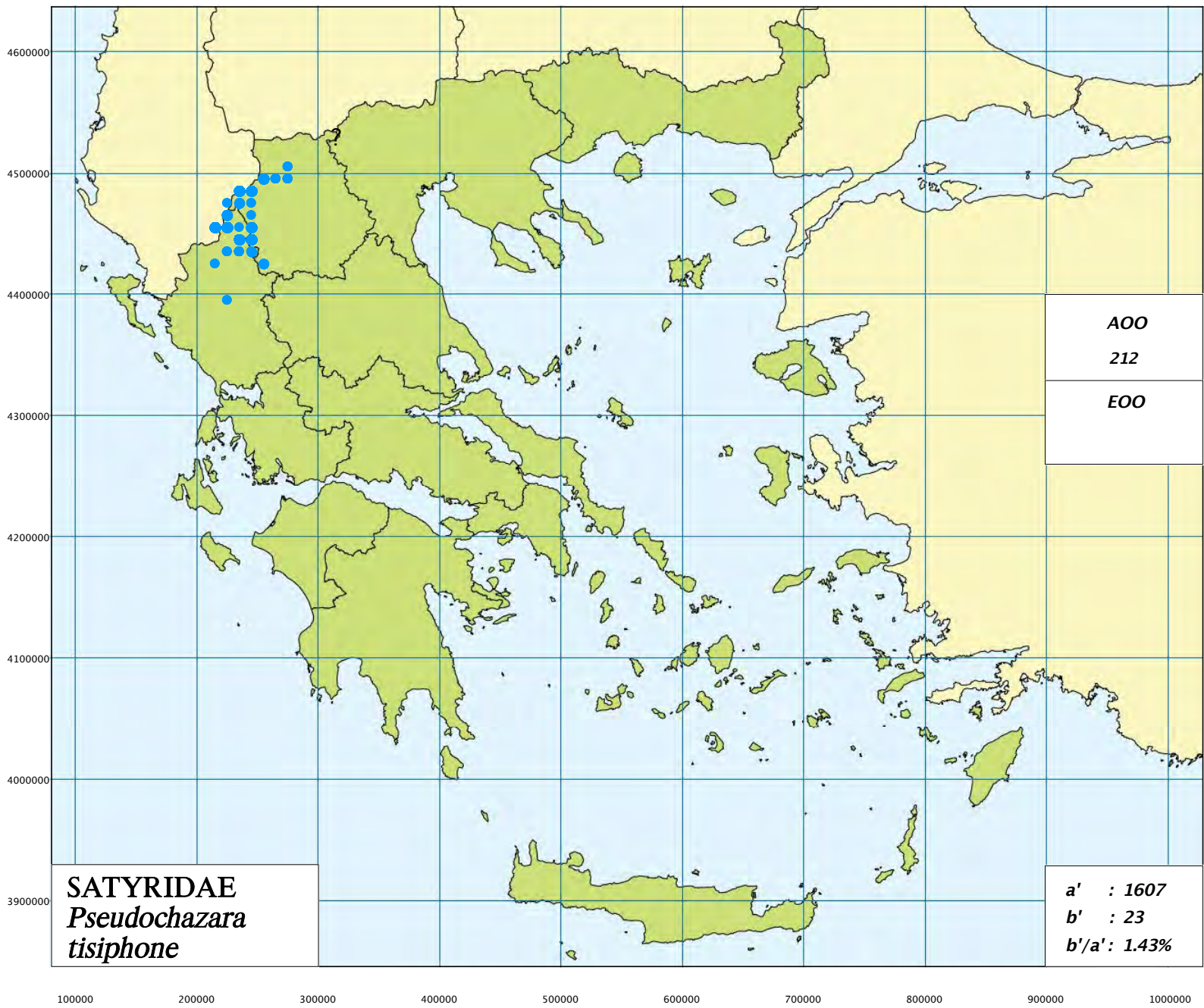
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<https://www.pamperis.gr/PHOTOGRAPHS/Pseudochazara.html>



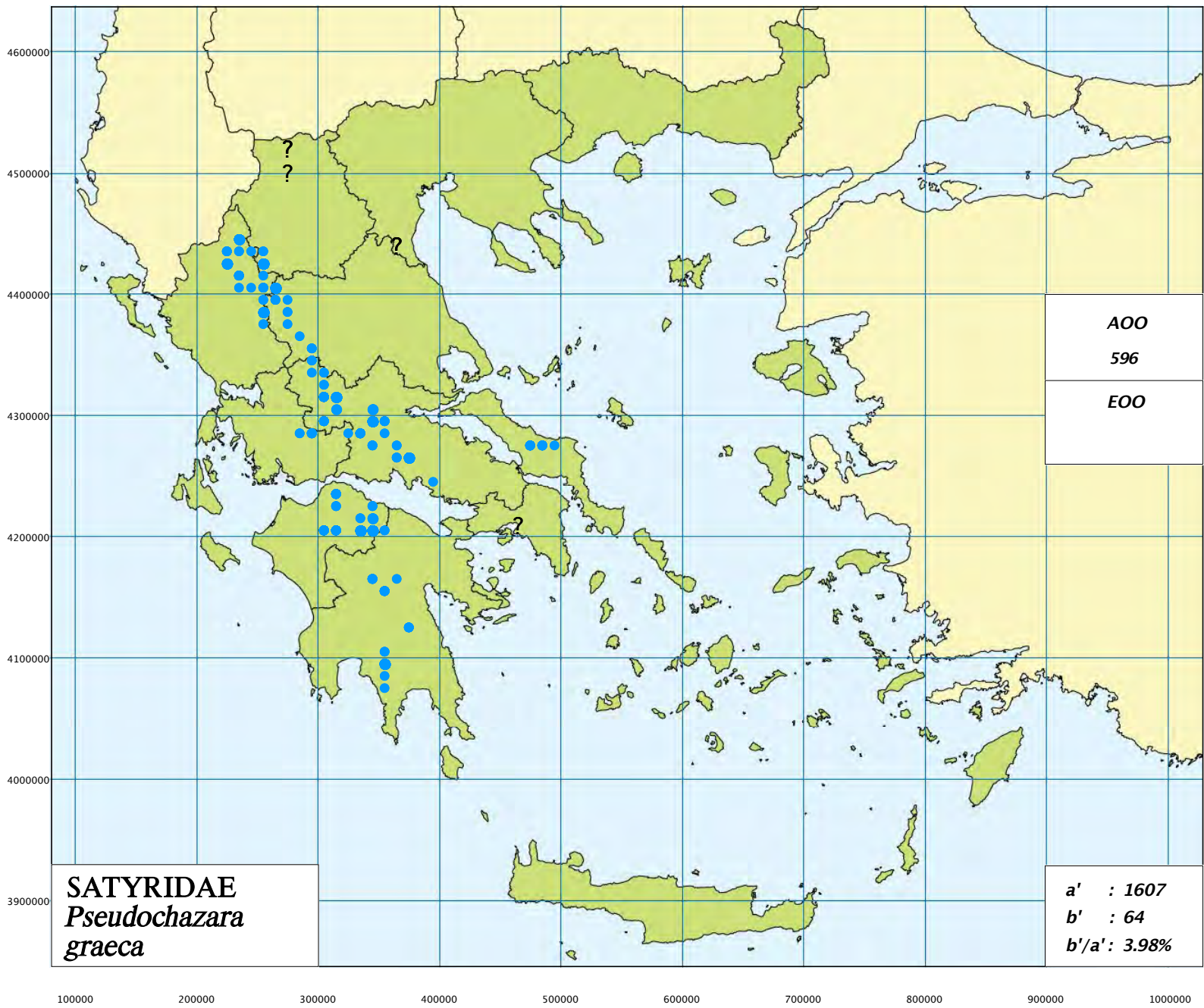


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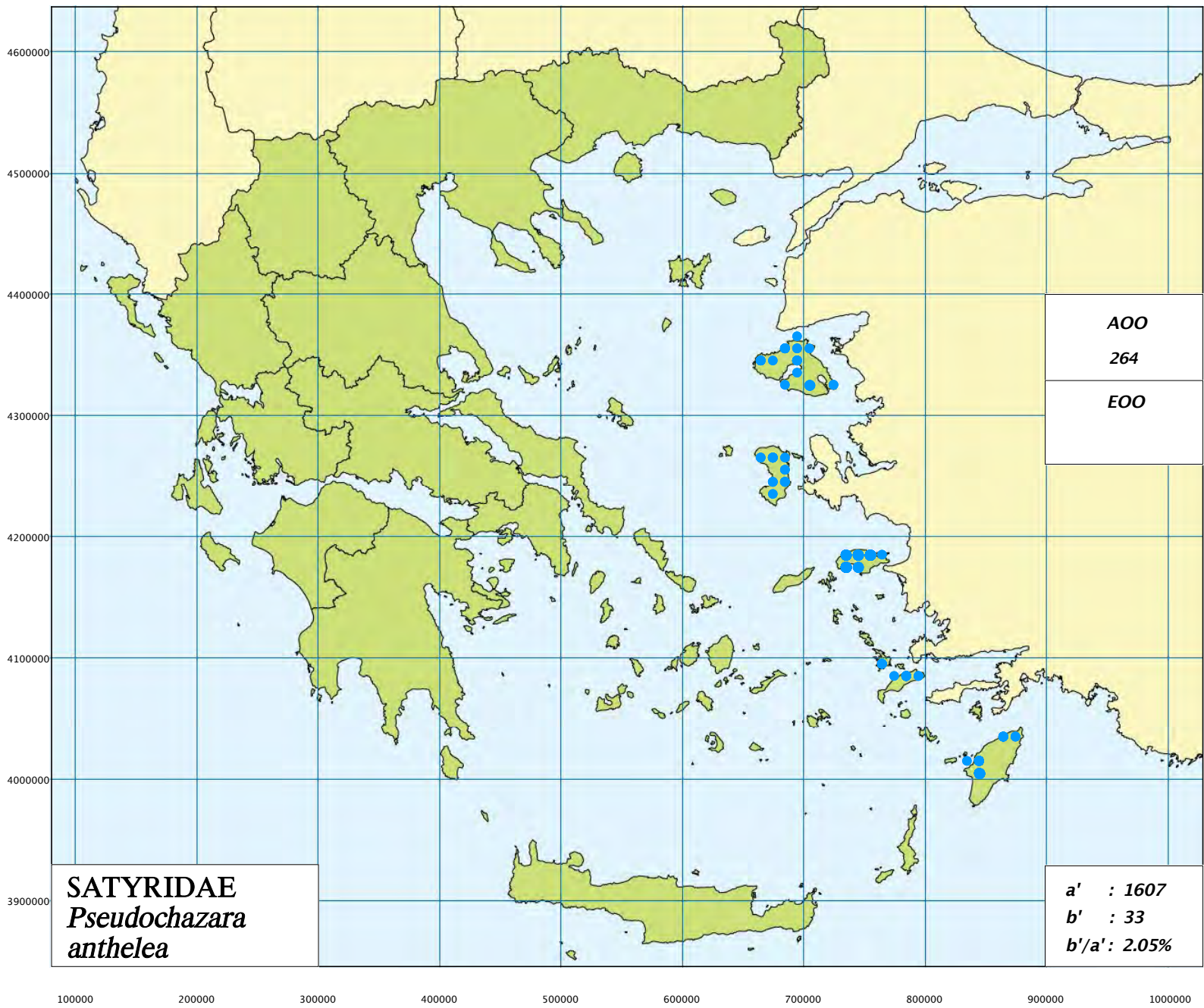




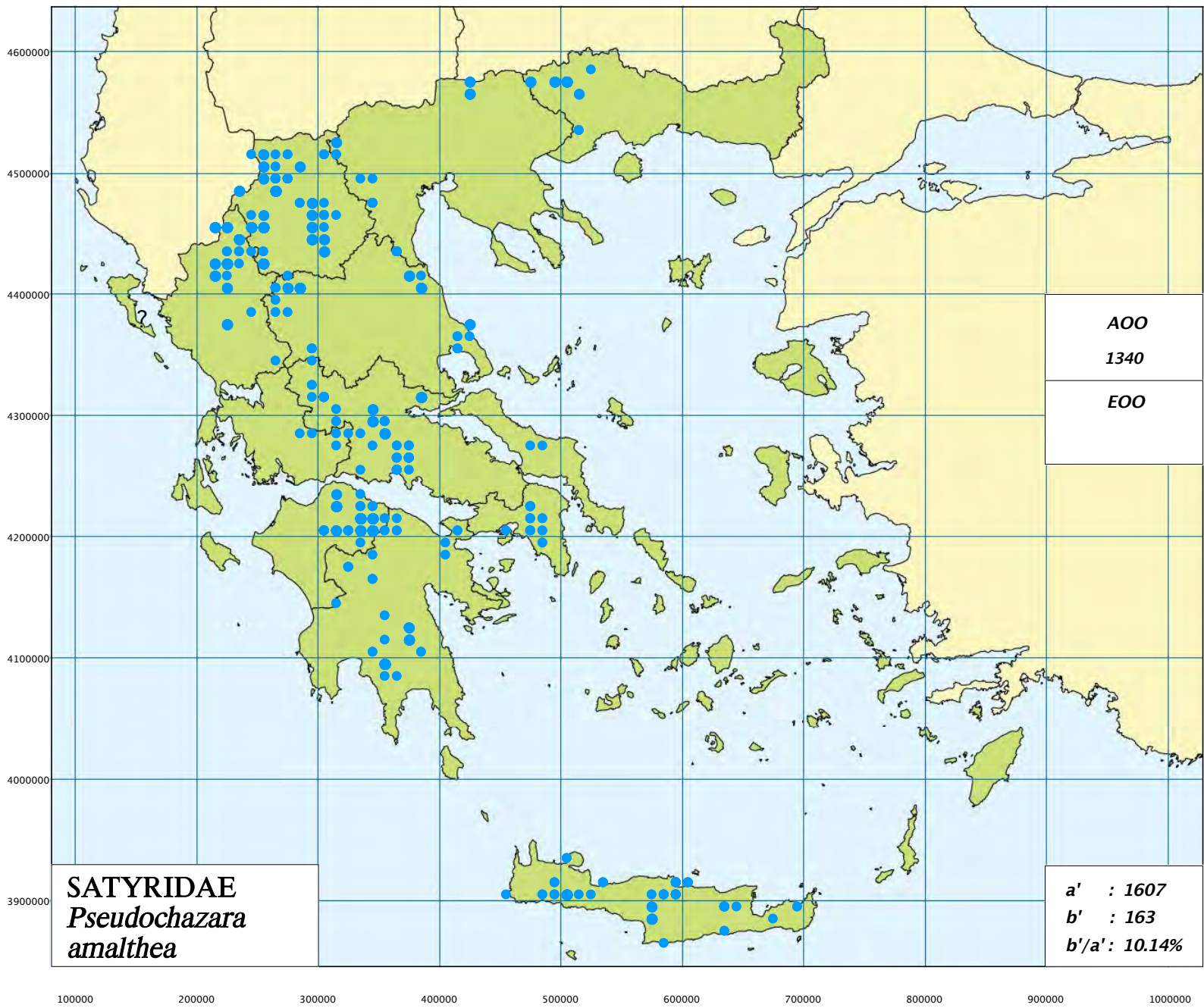
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**AOO**  
**1340**  
**EOO**

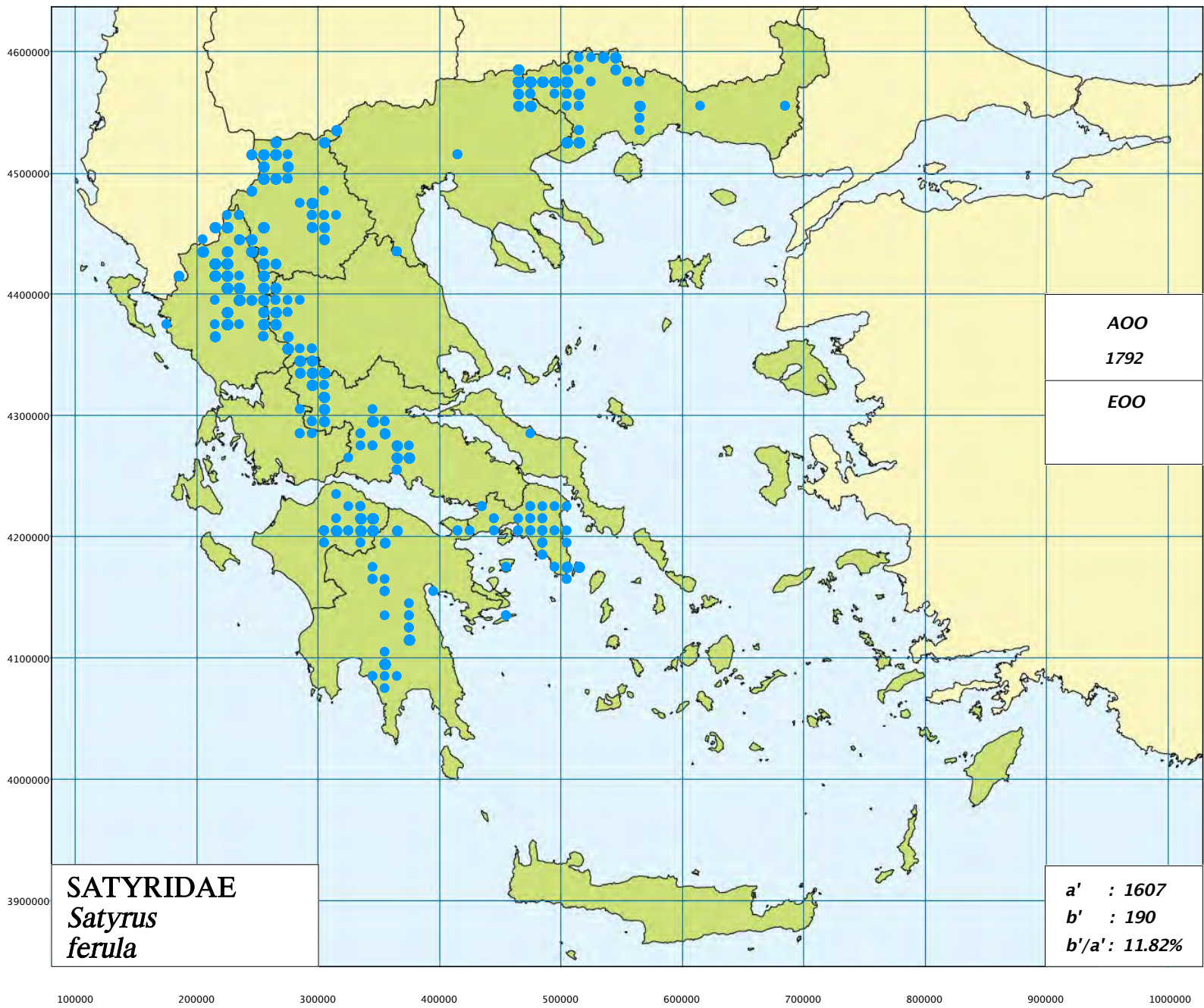
**SATYRIDAE**  
*Pseudochazara*  
*amalthea*

**a' : 1607**  
**b' : 163**  
**b'/a' : 10.14%**

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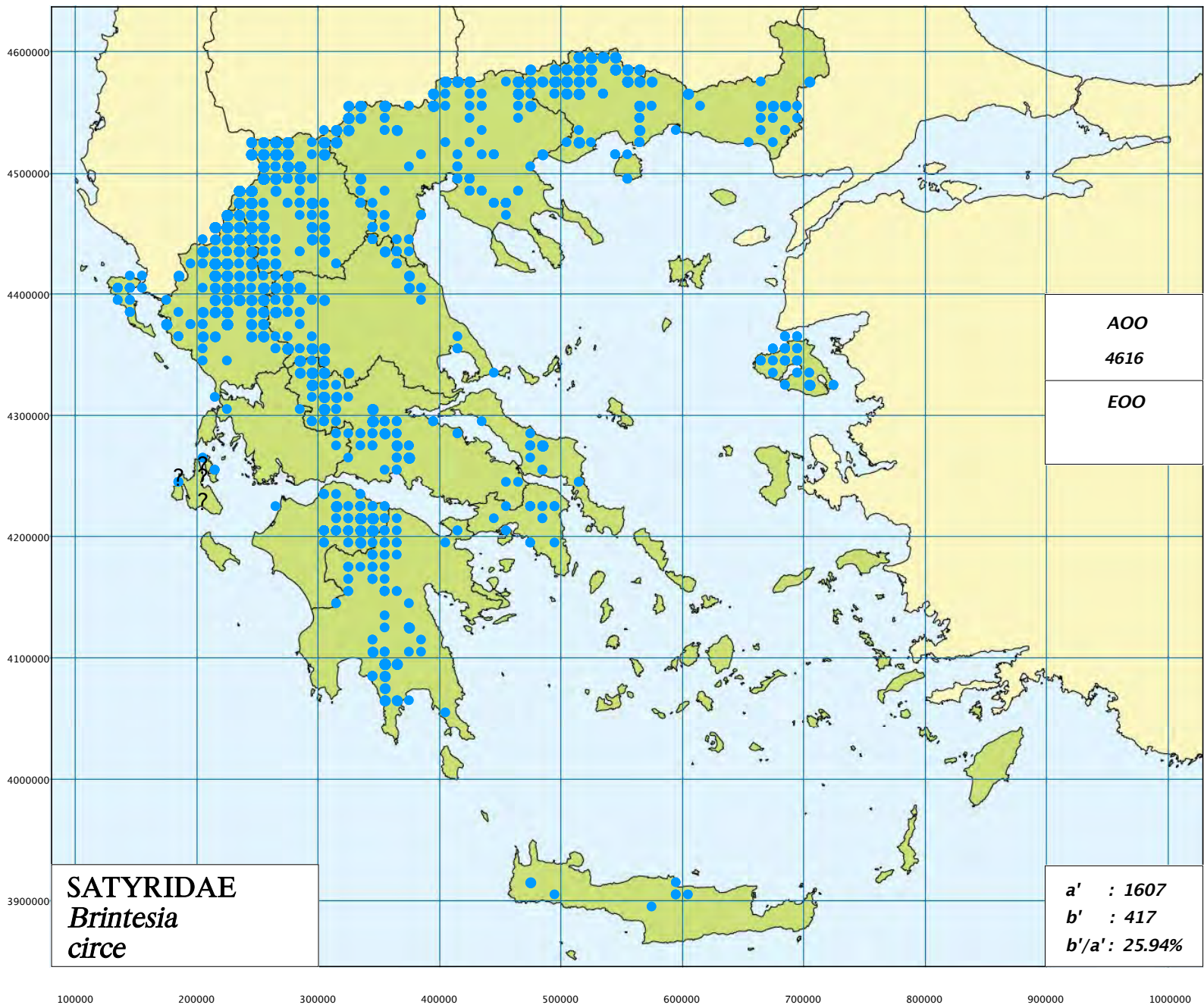
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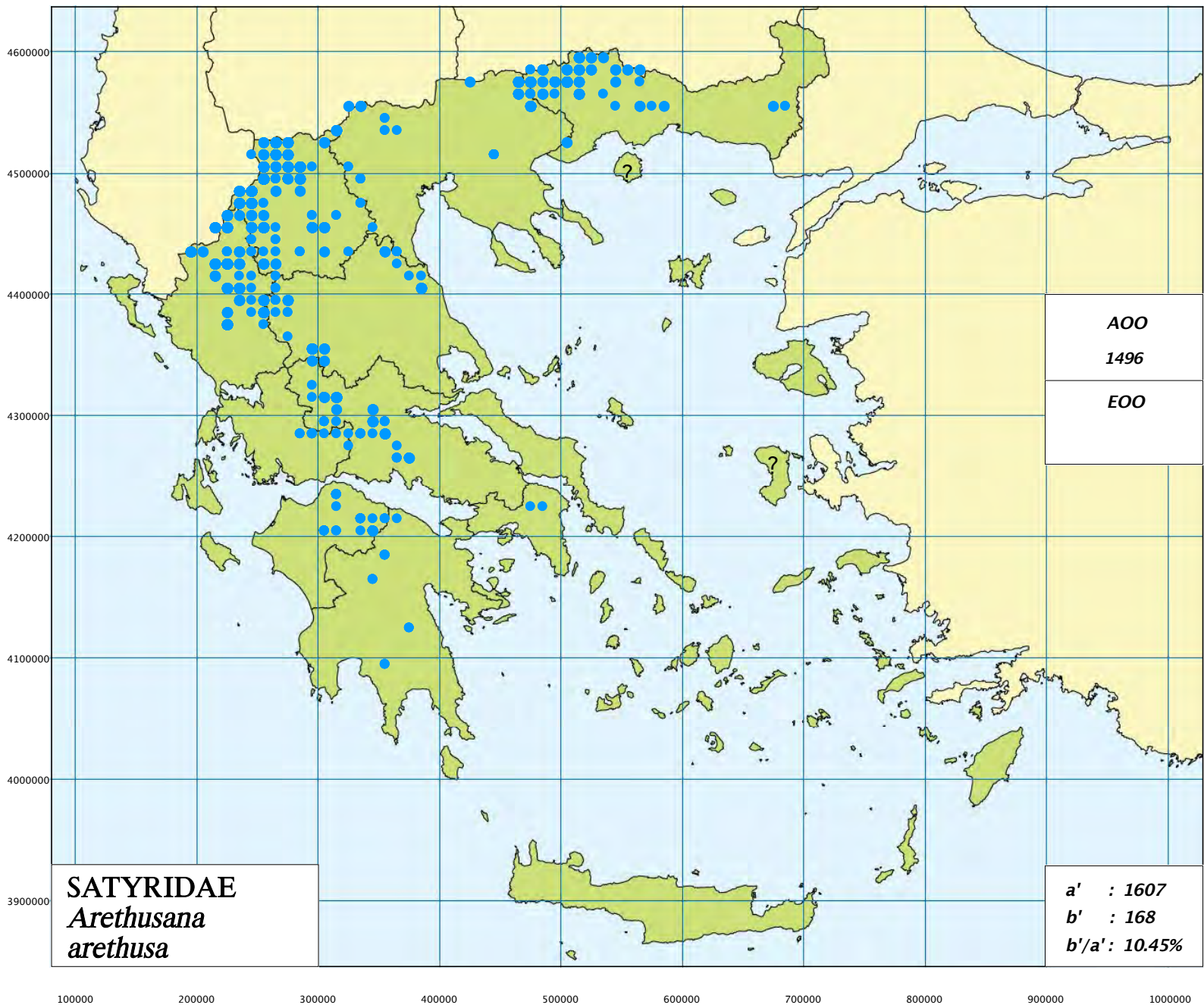




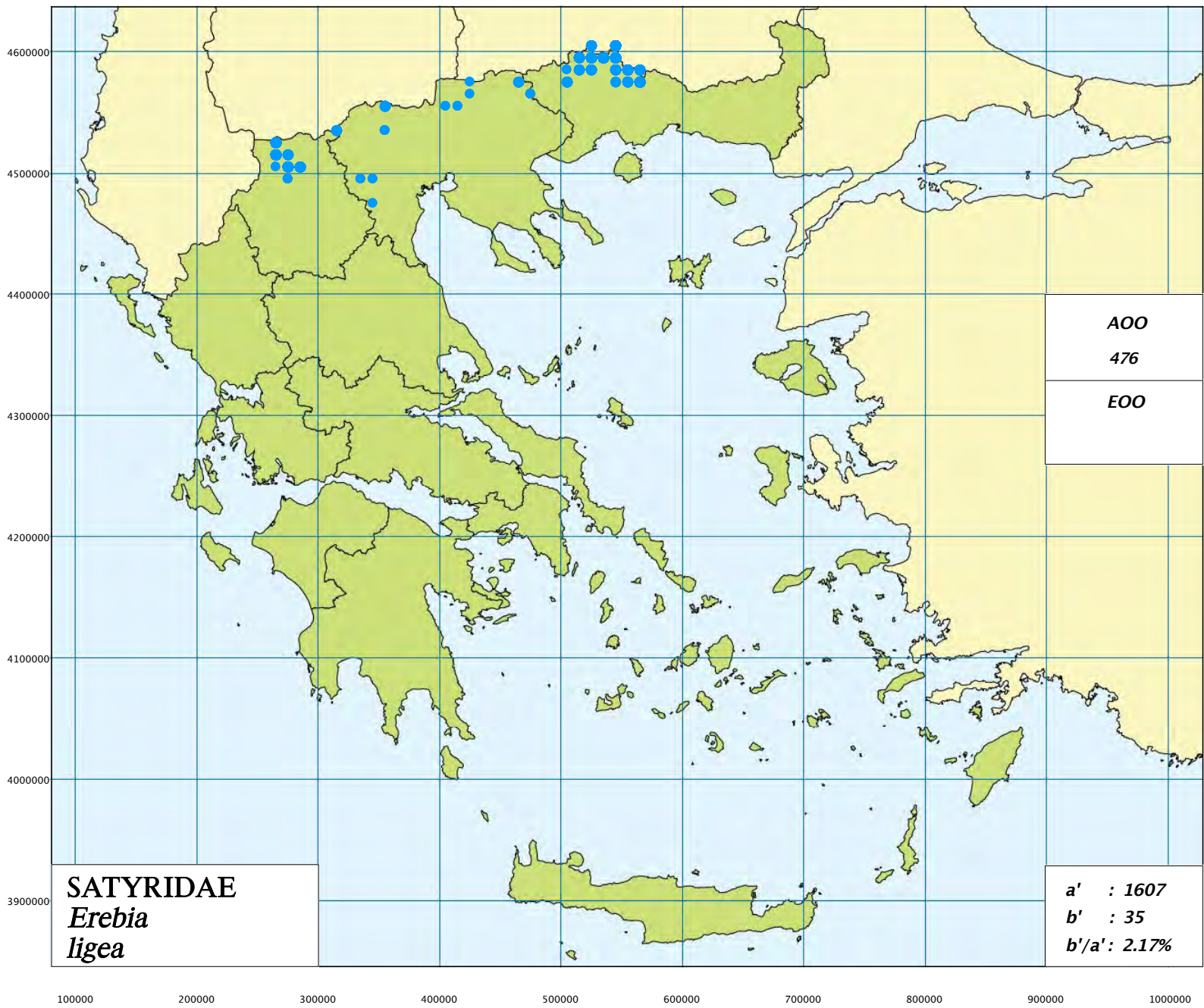


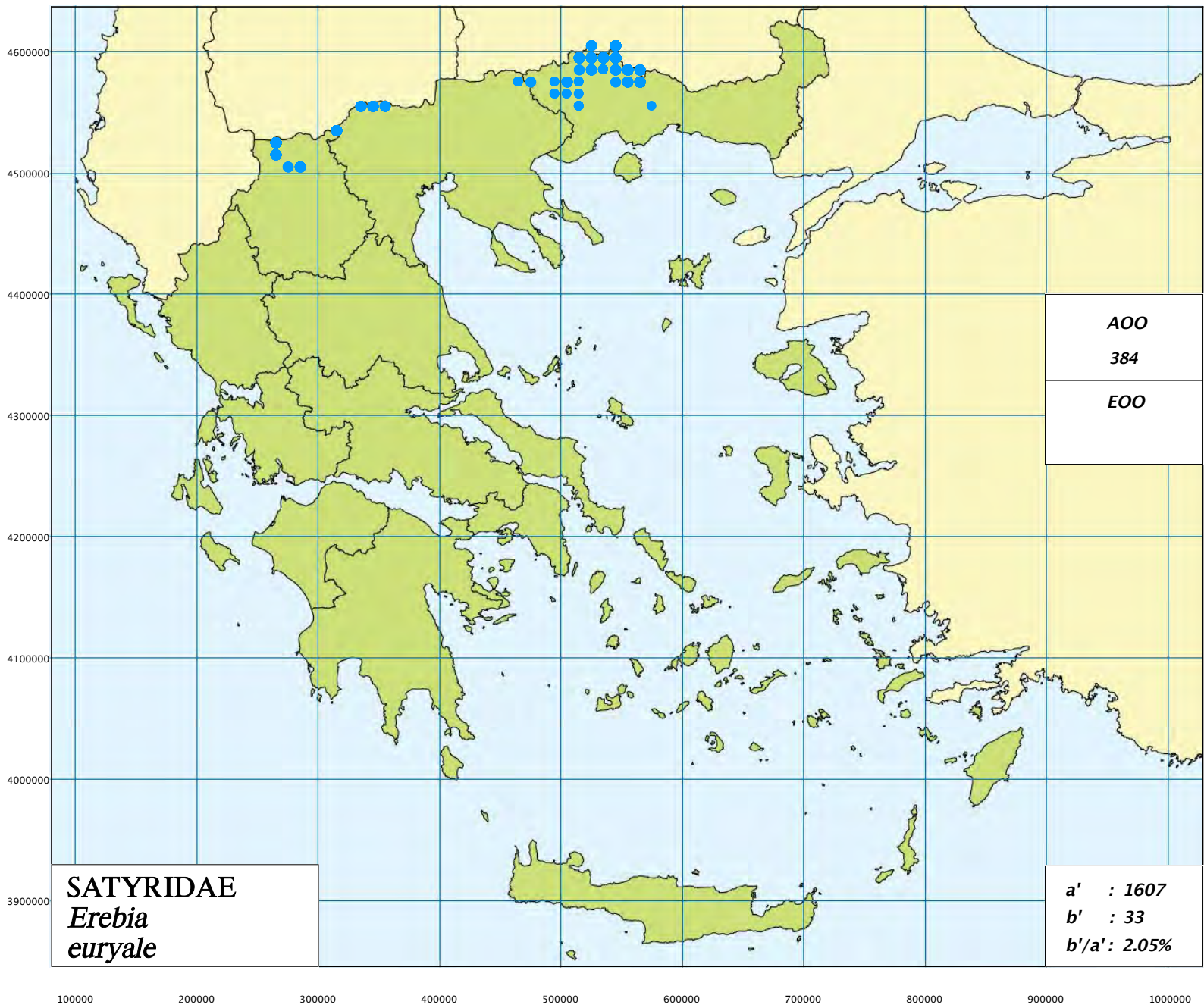






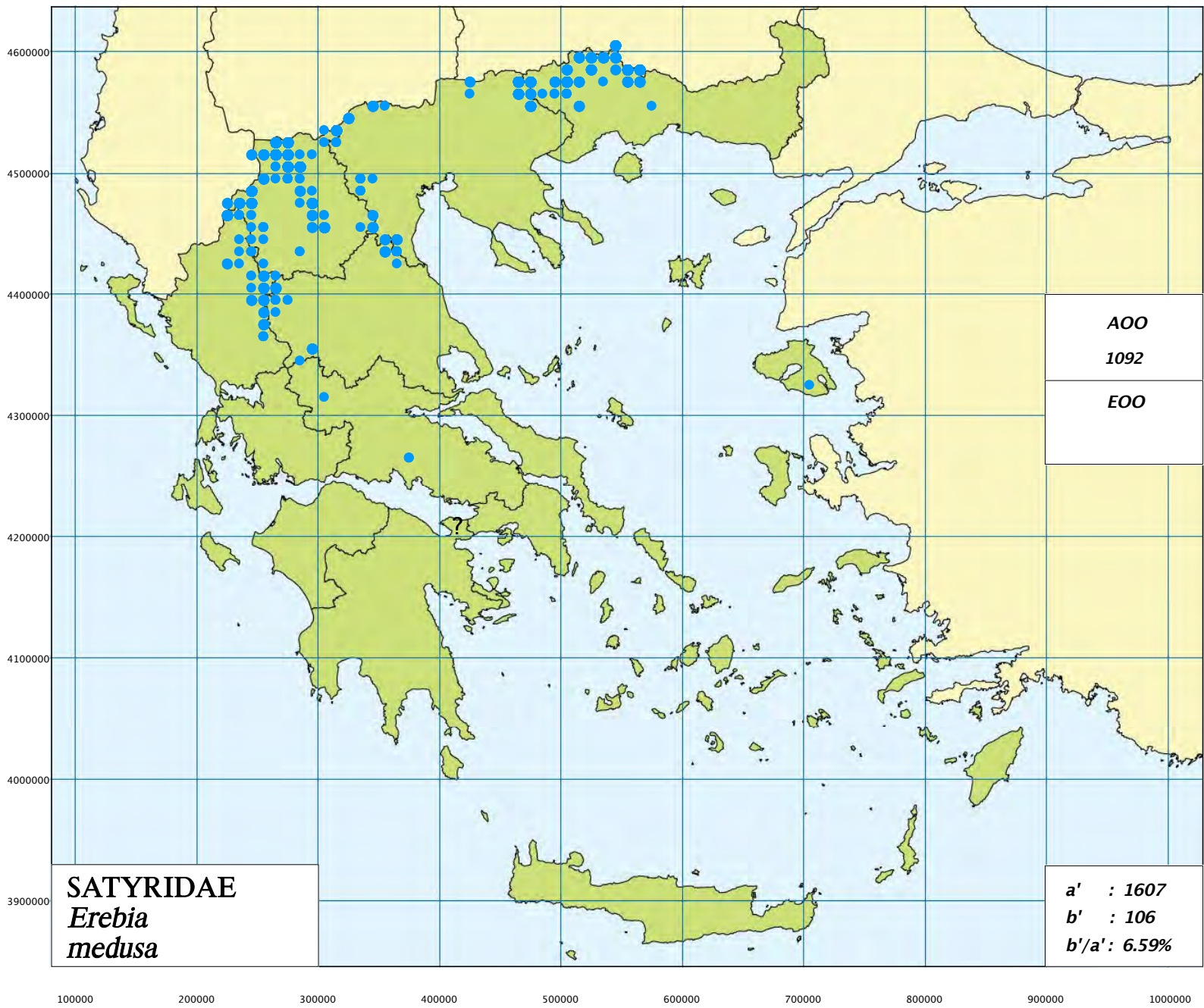






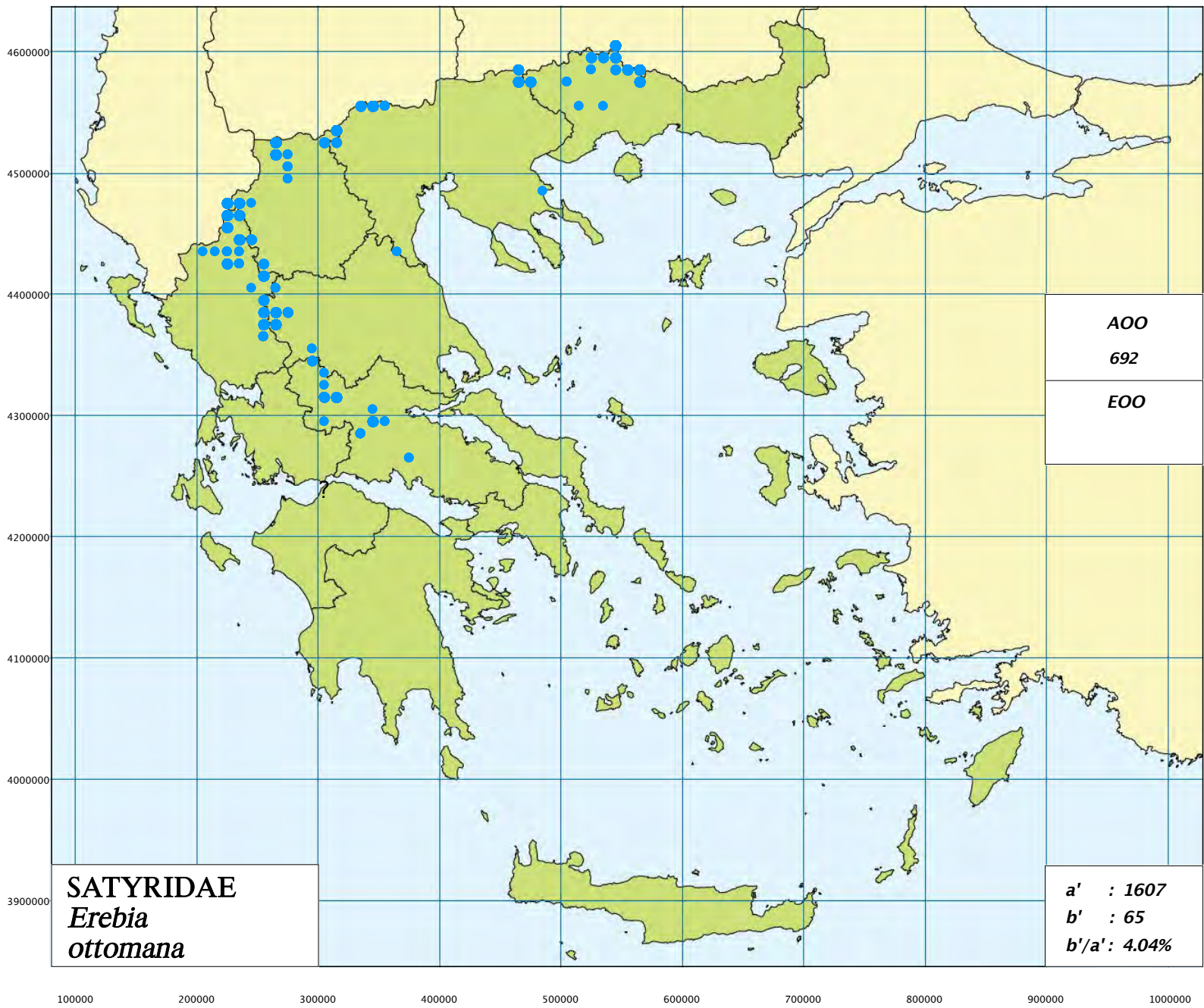






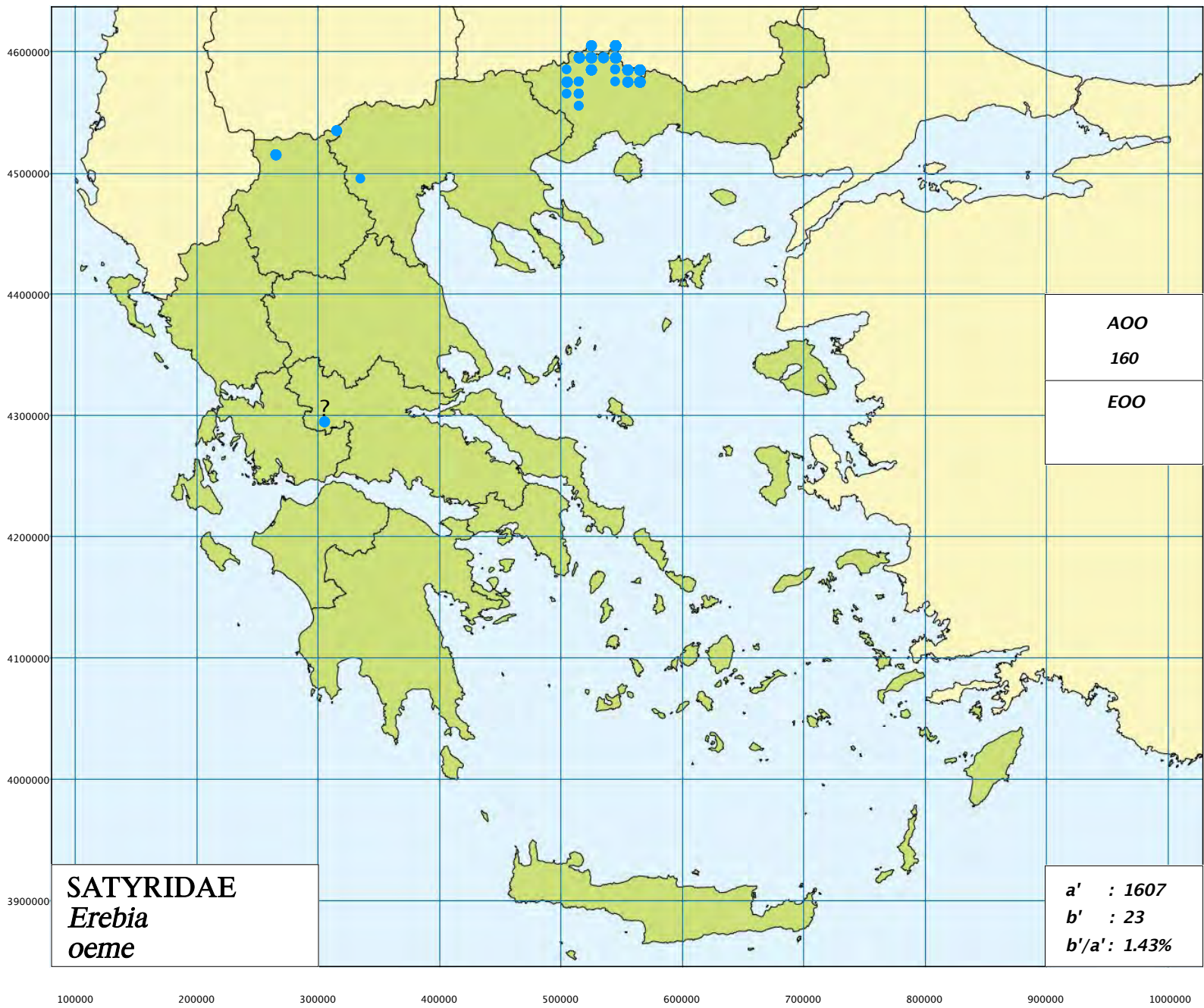






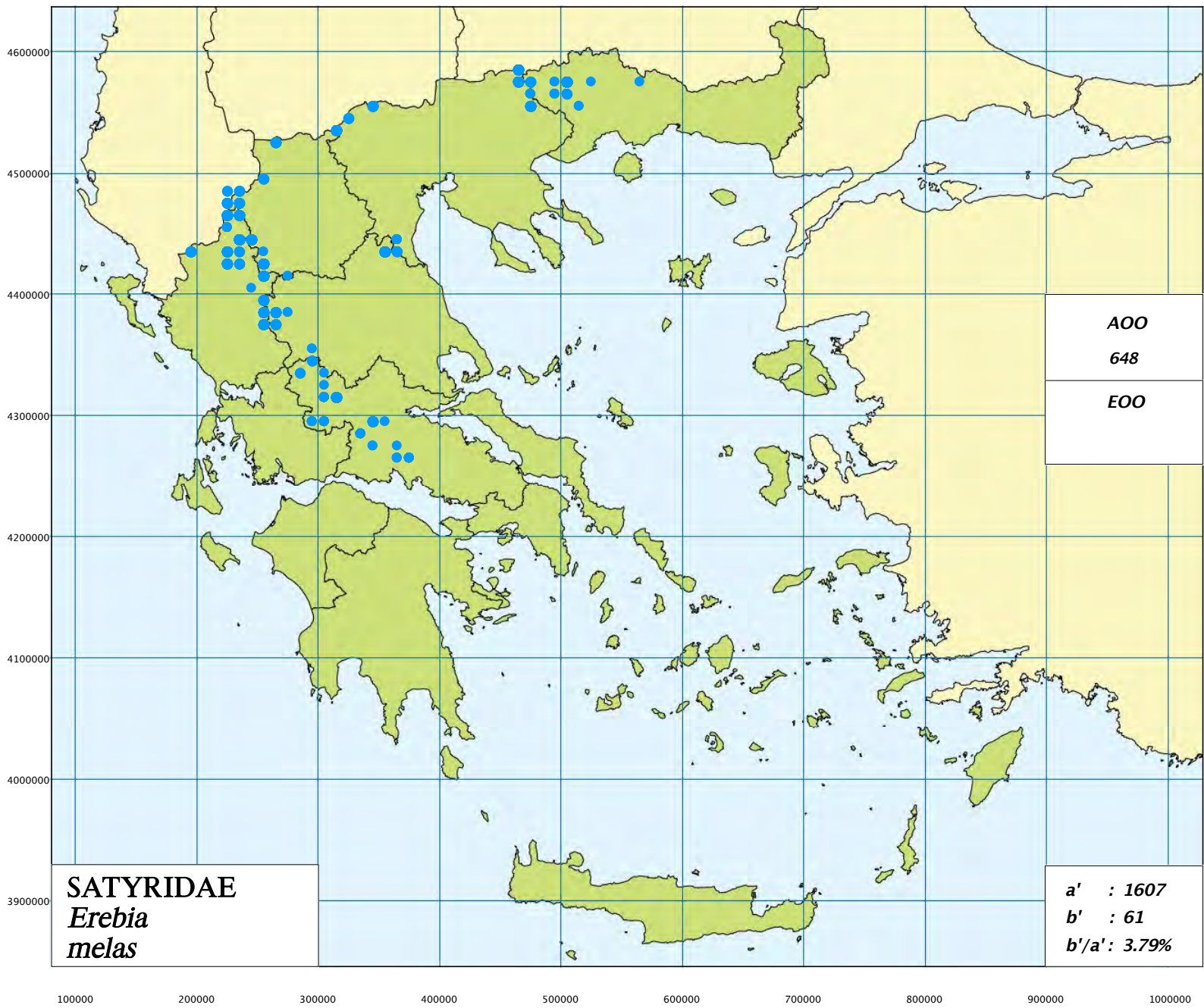






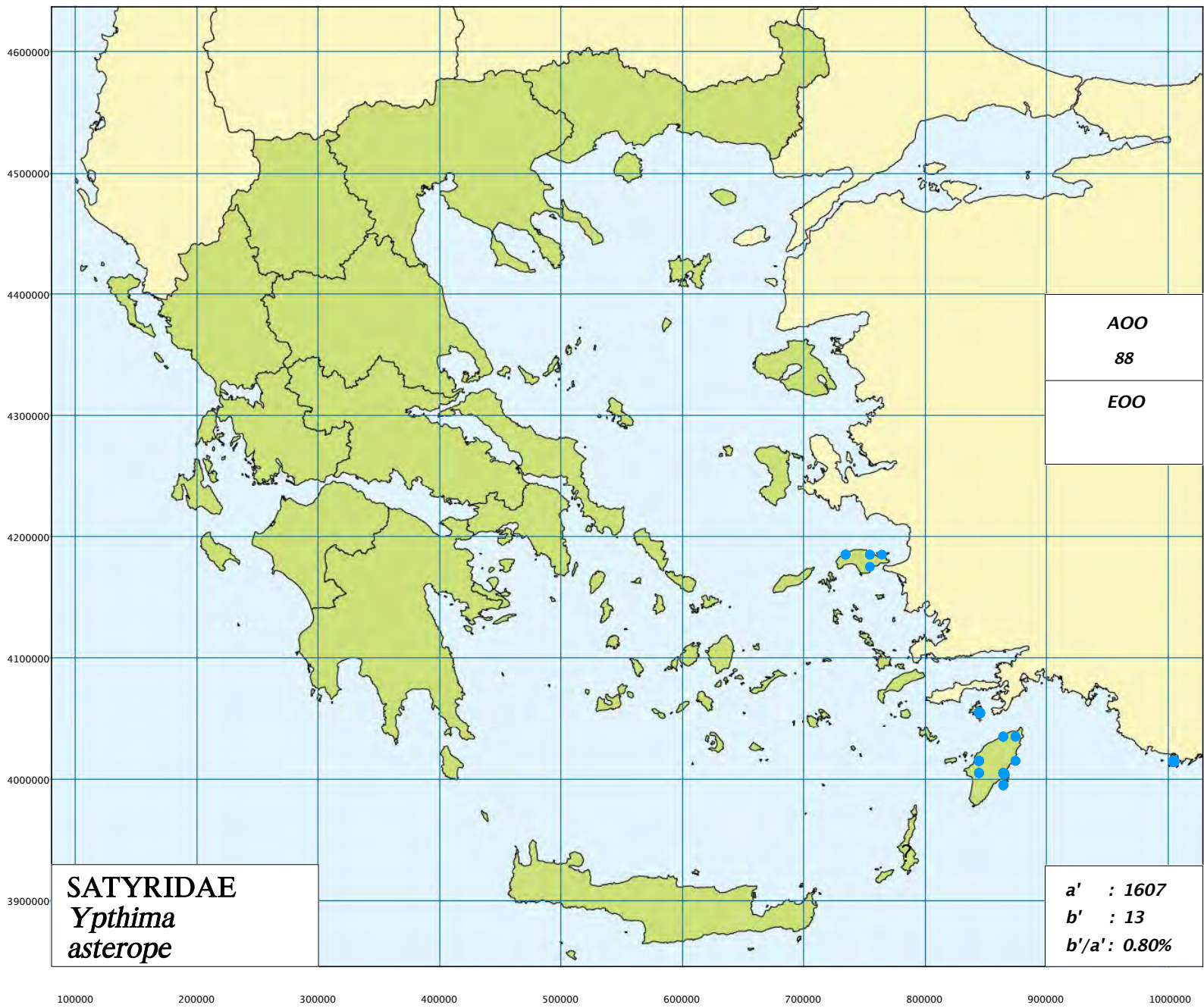




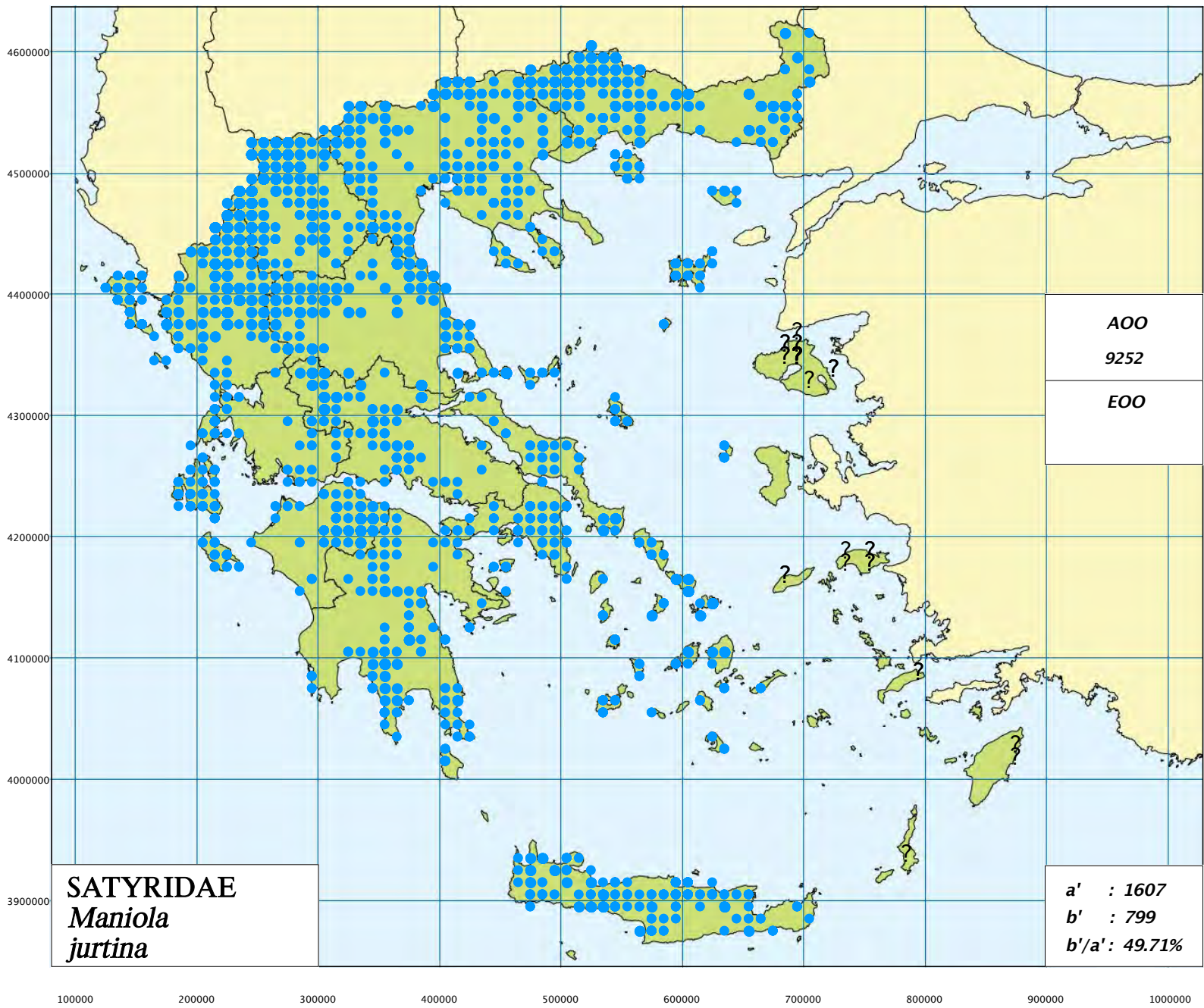










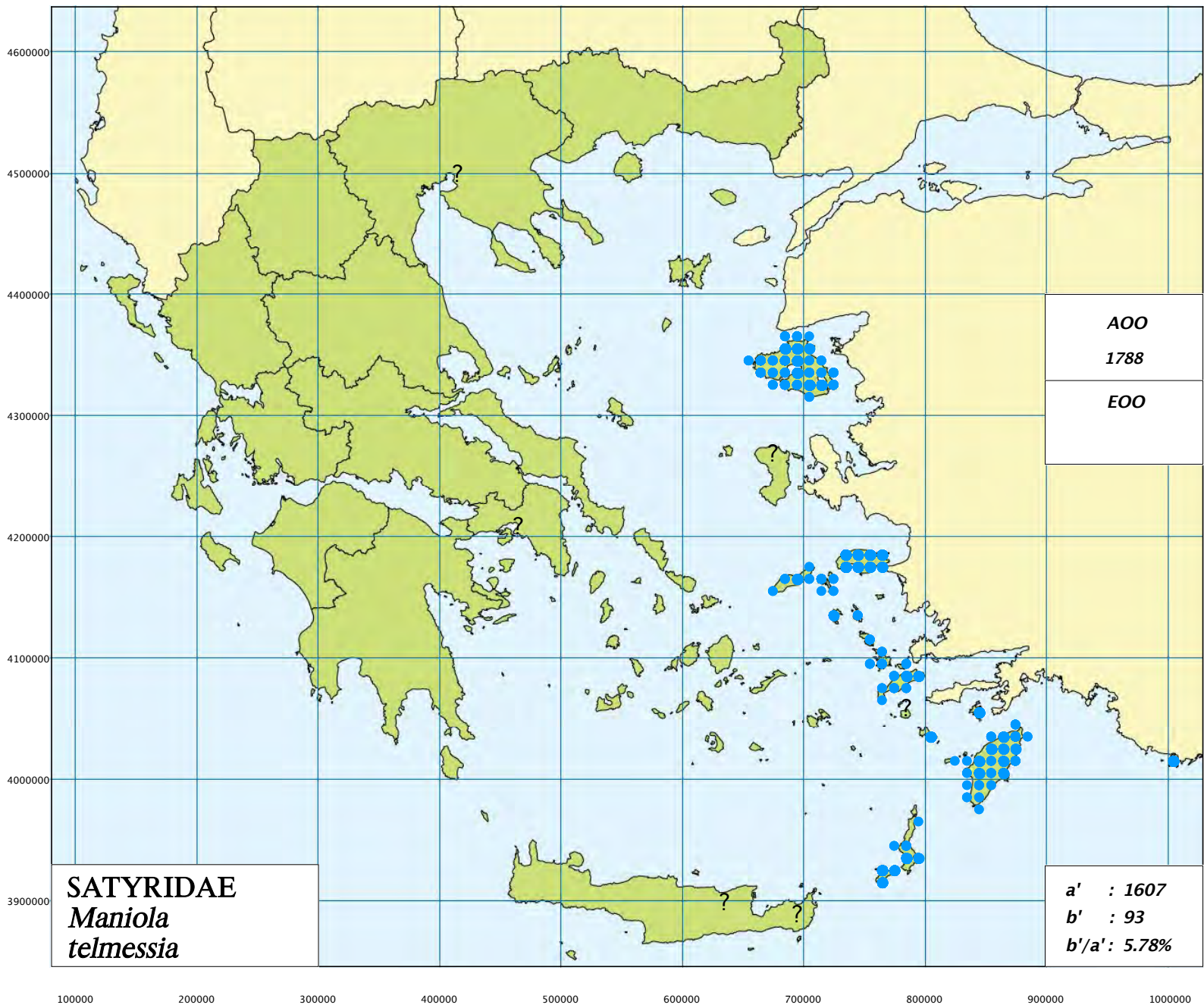


[http://www.pamperis.gr/PHOTOGRAPHS/Maniola\\_telmessia\\_chia\\_hallicarnassus\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html)



[http://www.pamperis.gr/PHOTOGRAPHS/Maniola\\_telmessia\\_chia\\_hallicarnassus\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html)





[http://www.pamperis.gr/PHOTOGRAPHS/Maniola\\_telmessia\\_chia\\_hallicarnassus\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html)

**ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE**

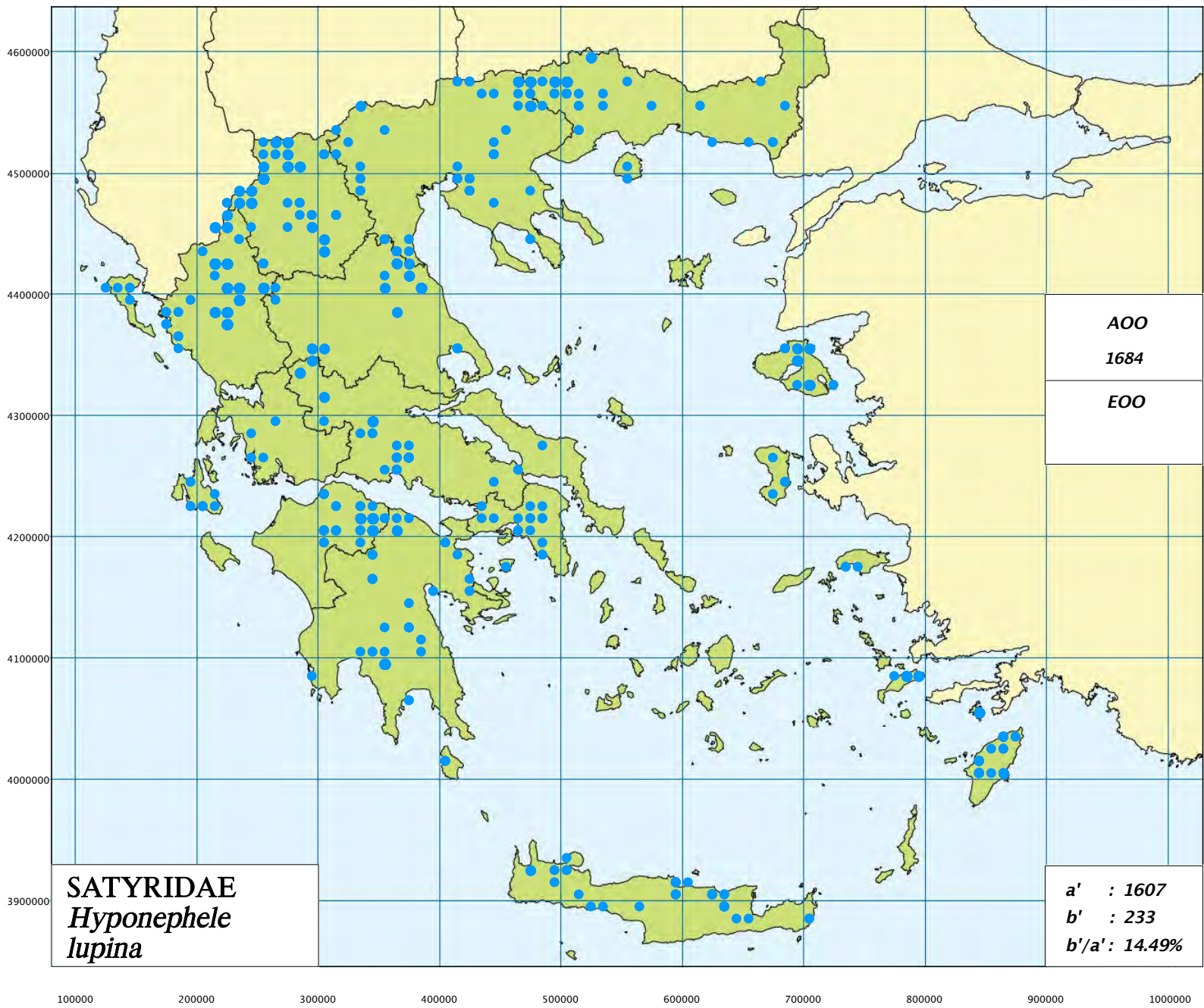


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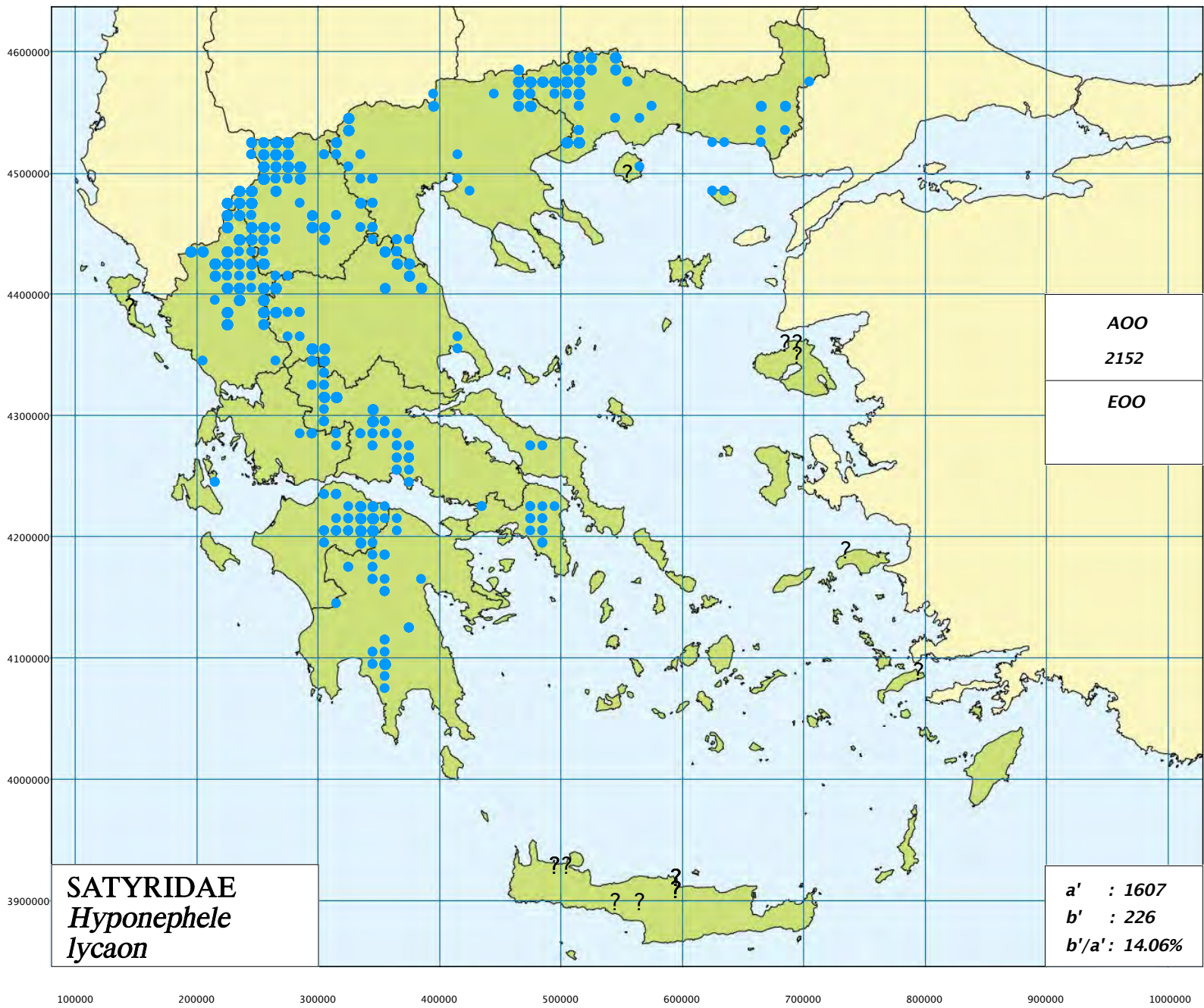


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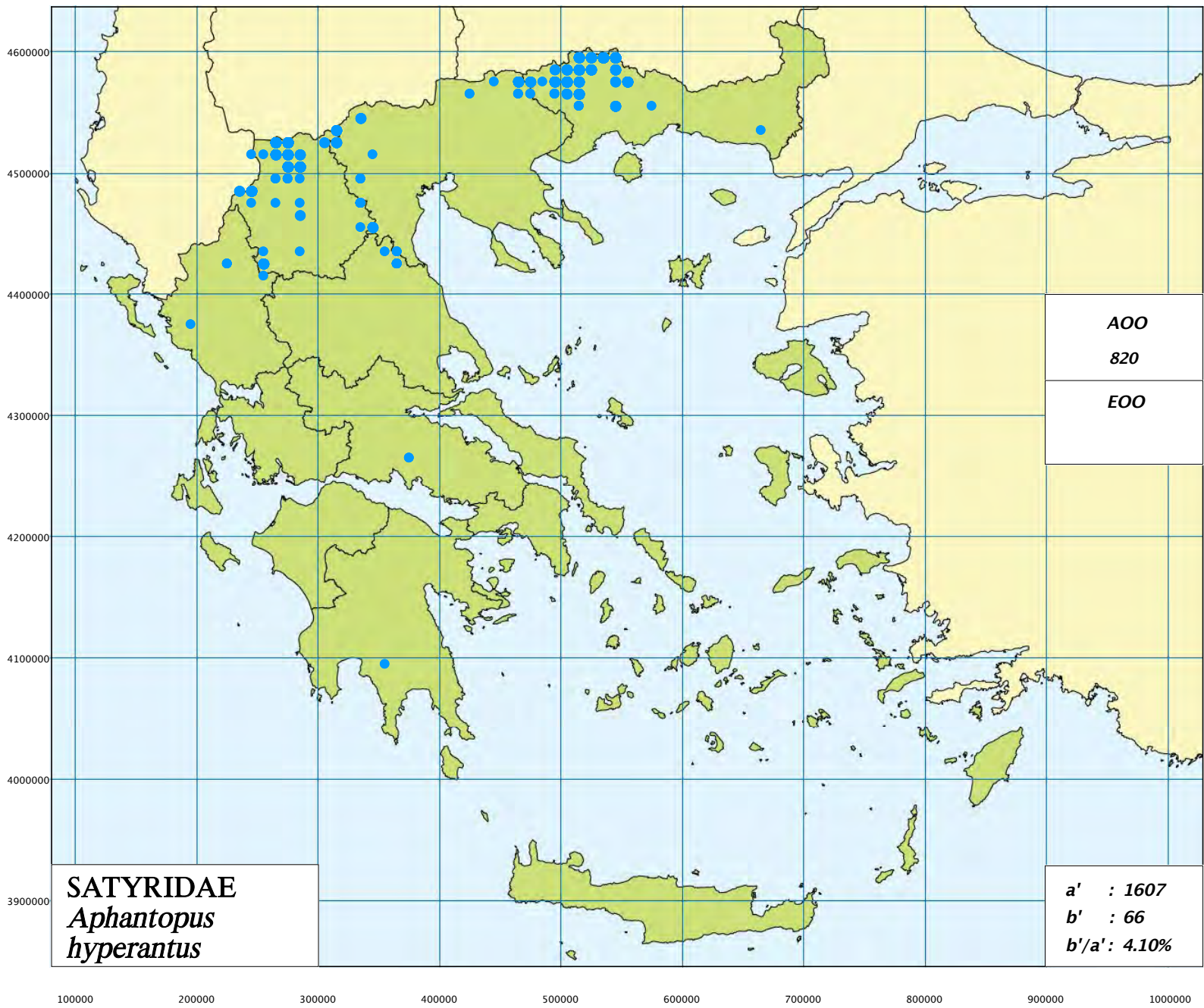


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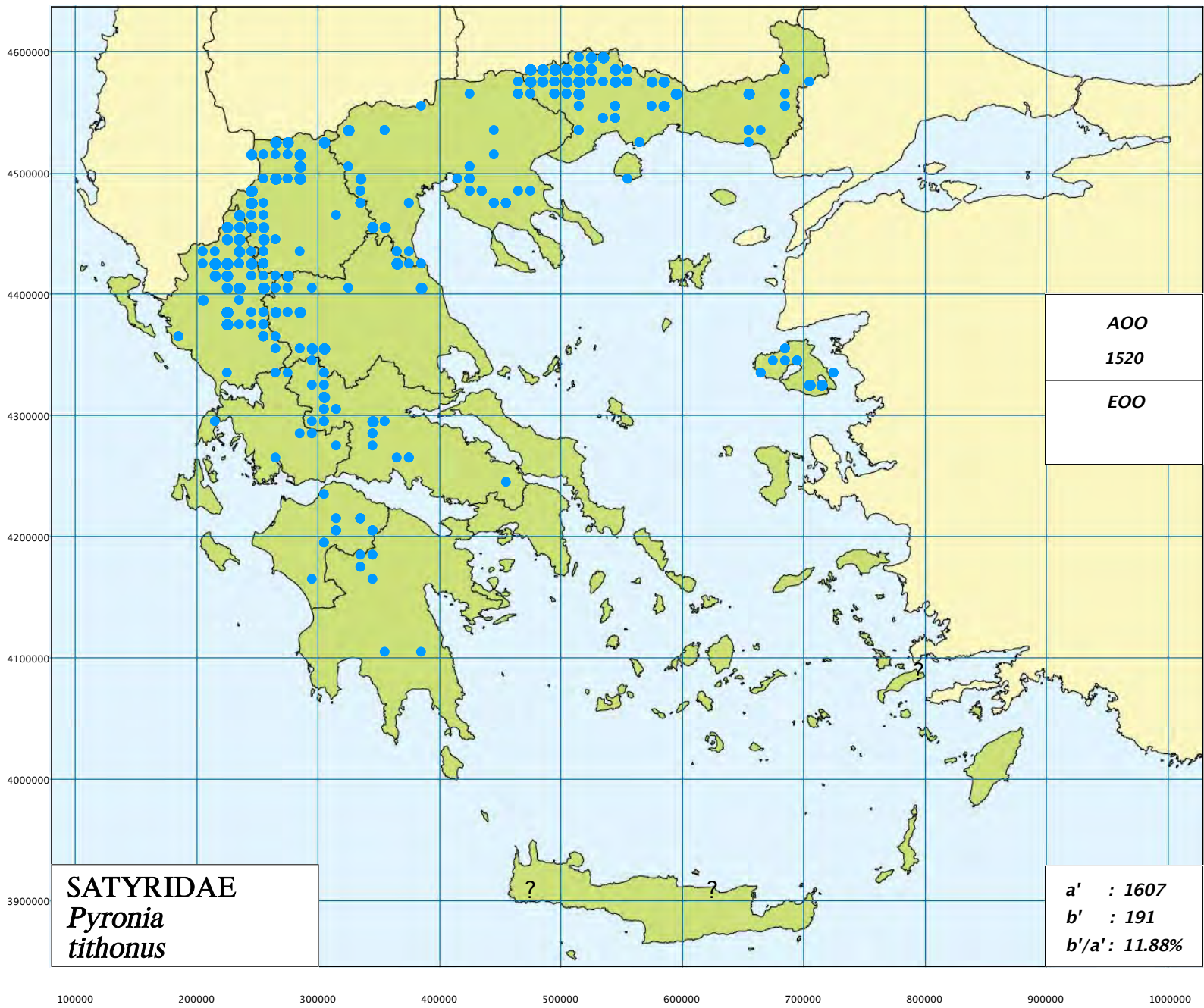




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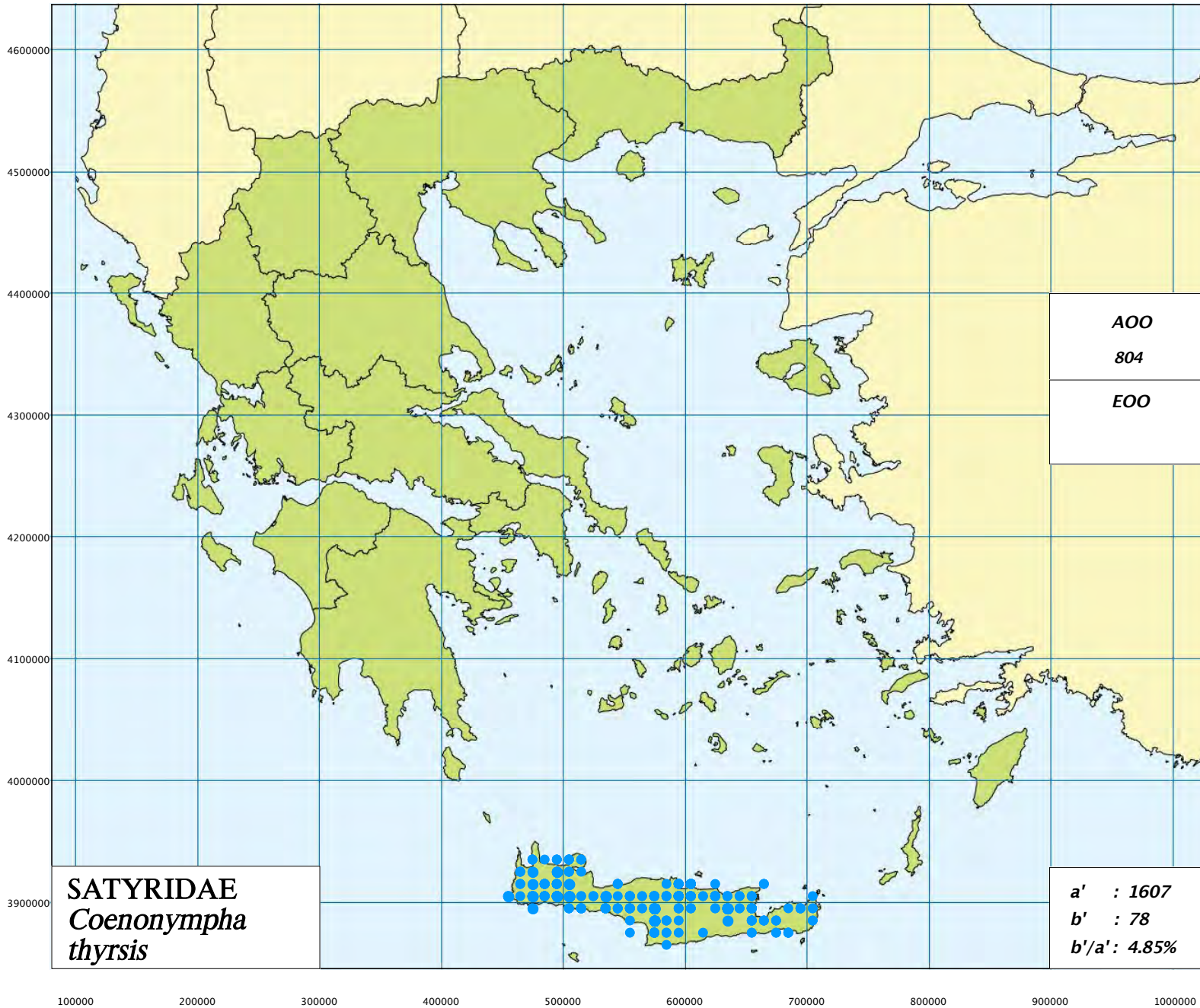


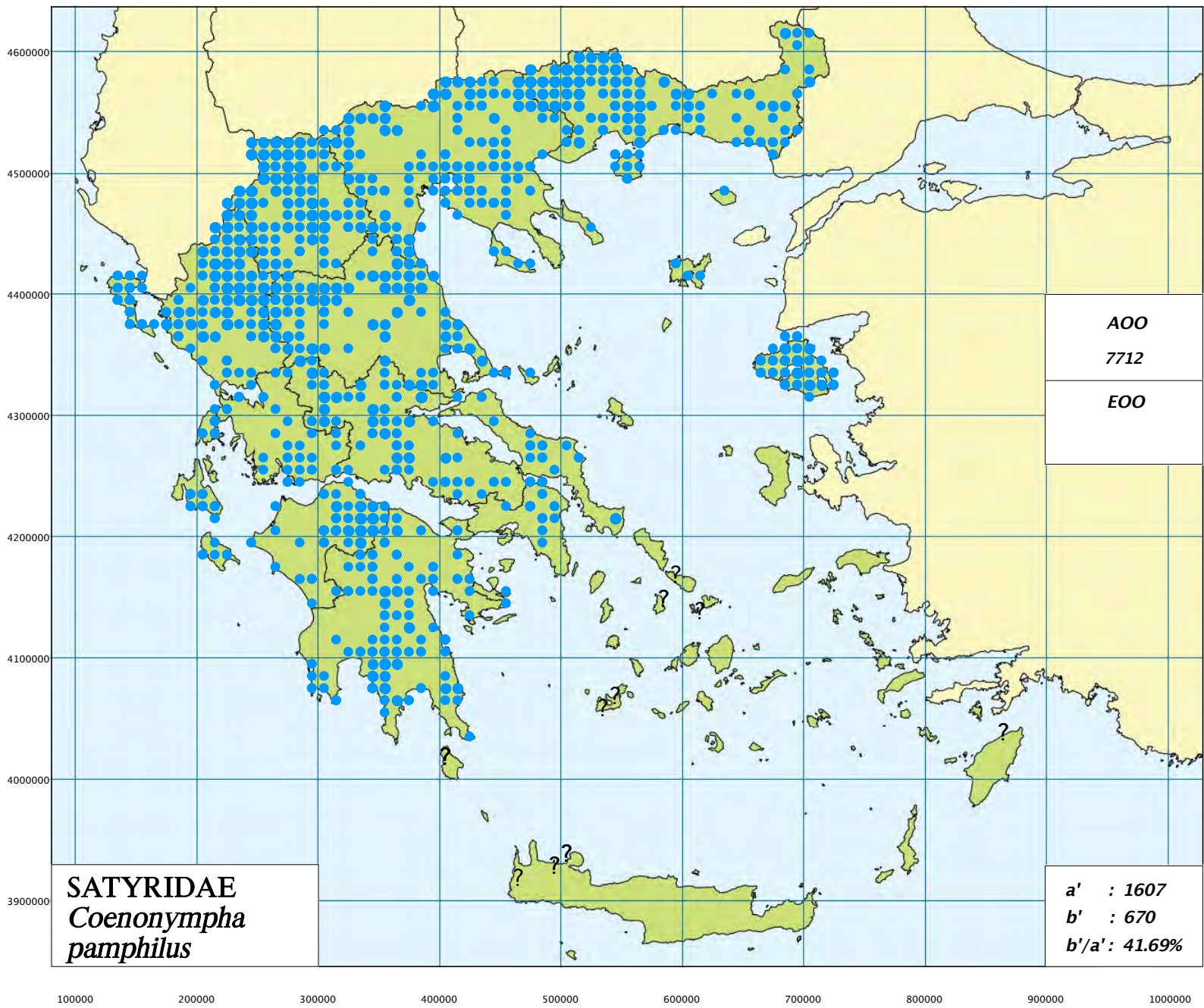




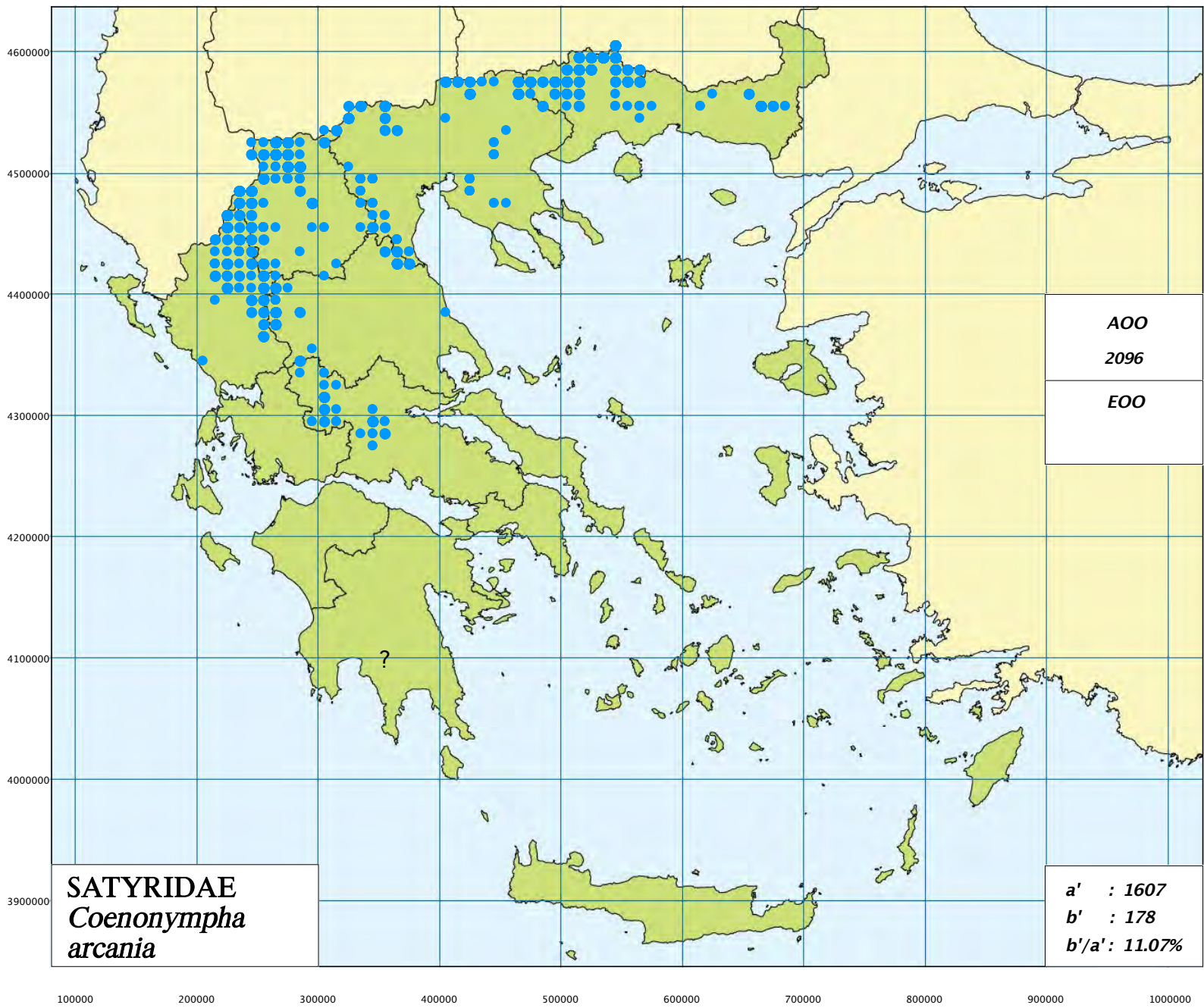


ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE









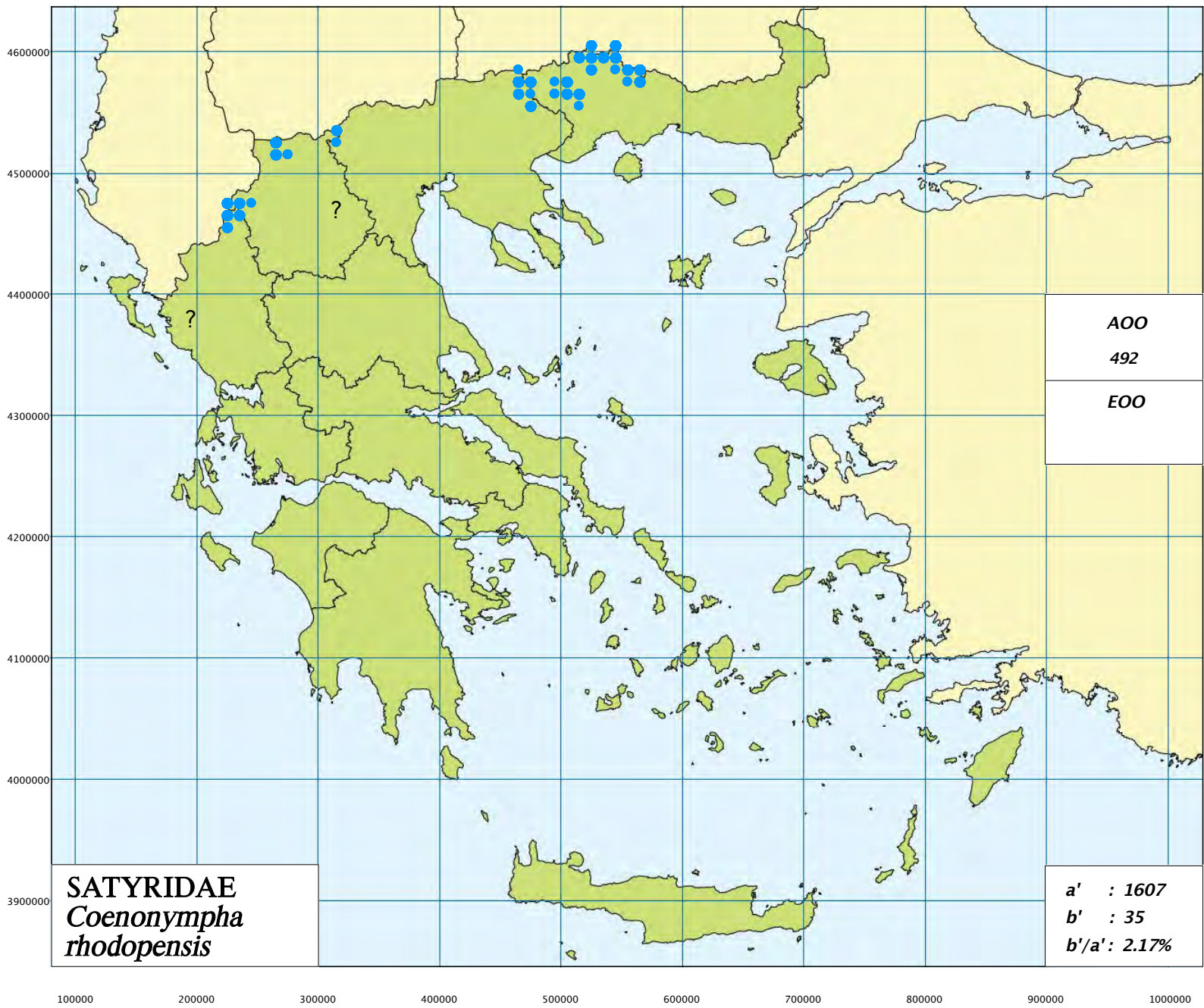


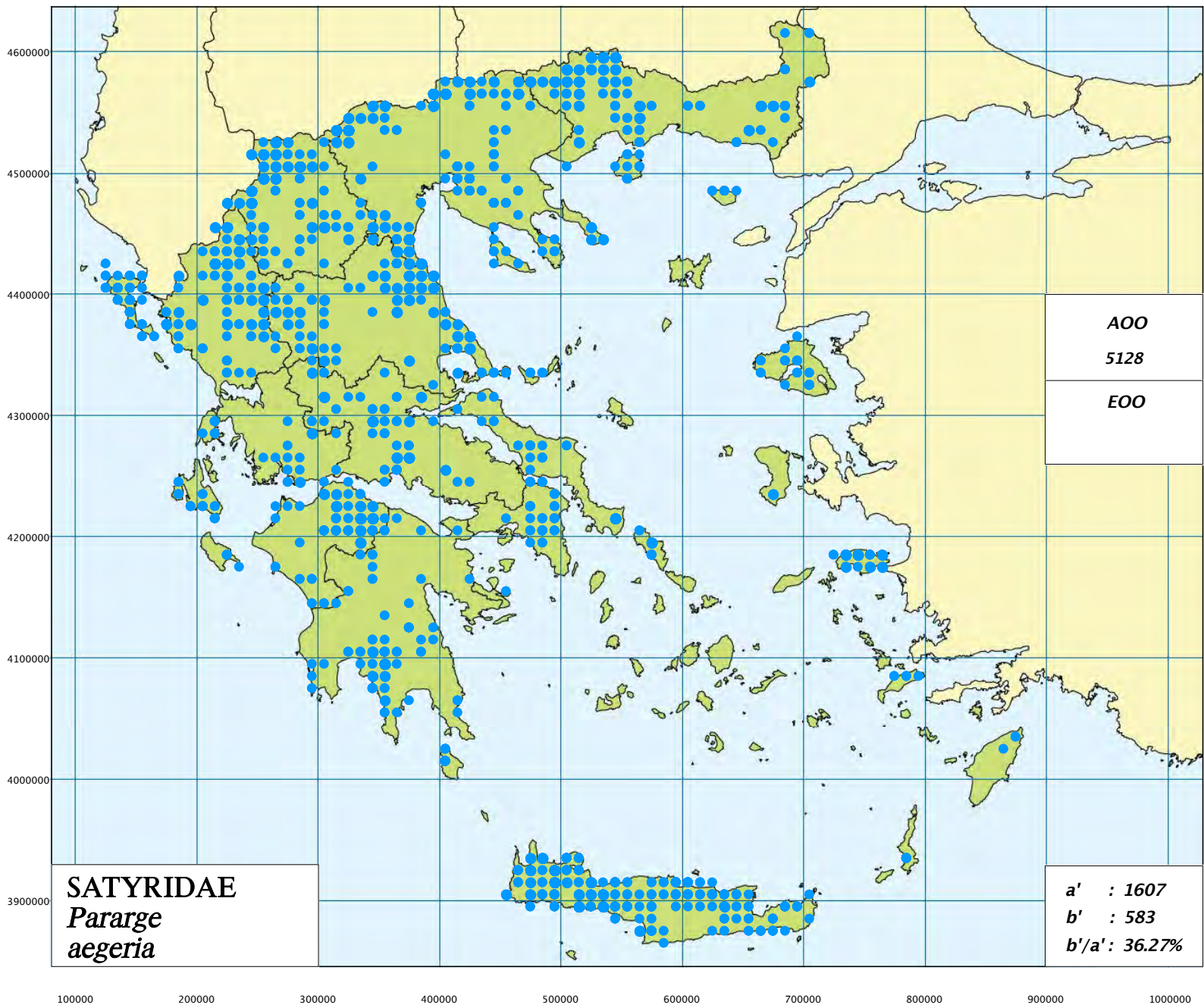




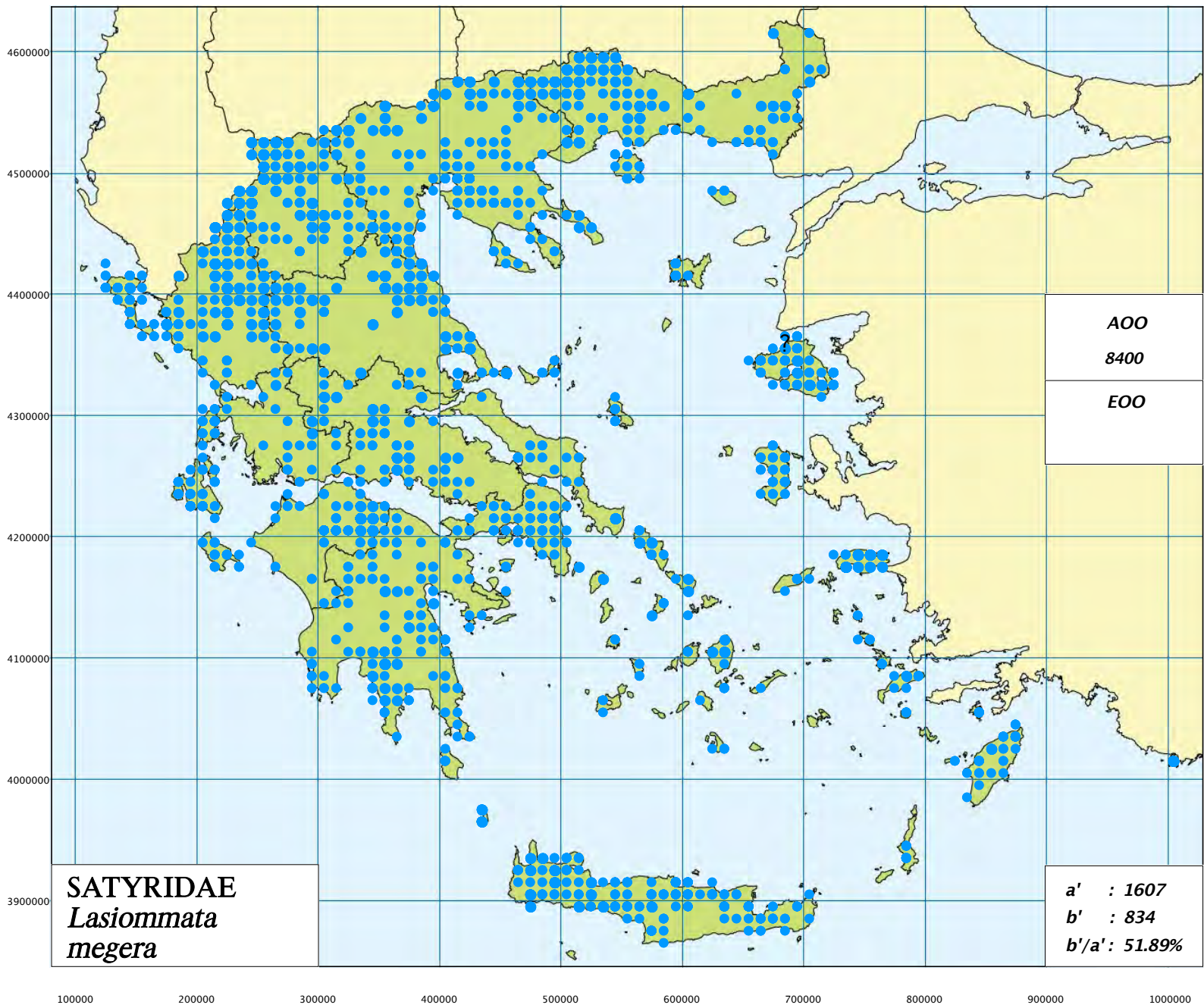




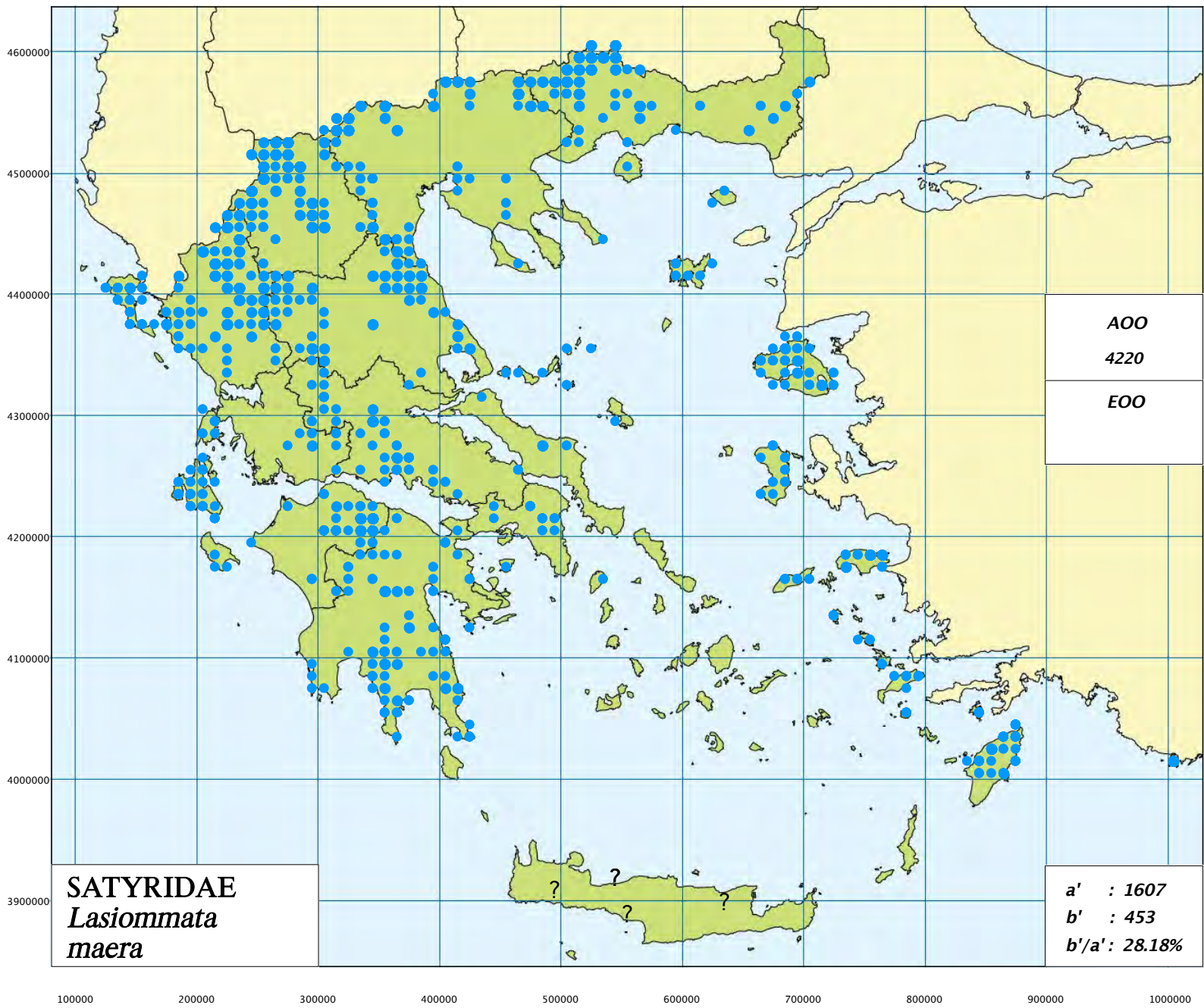






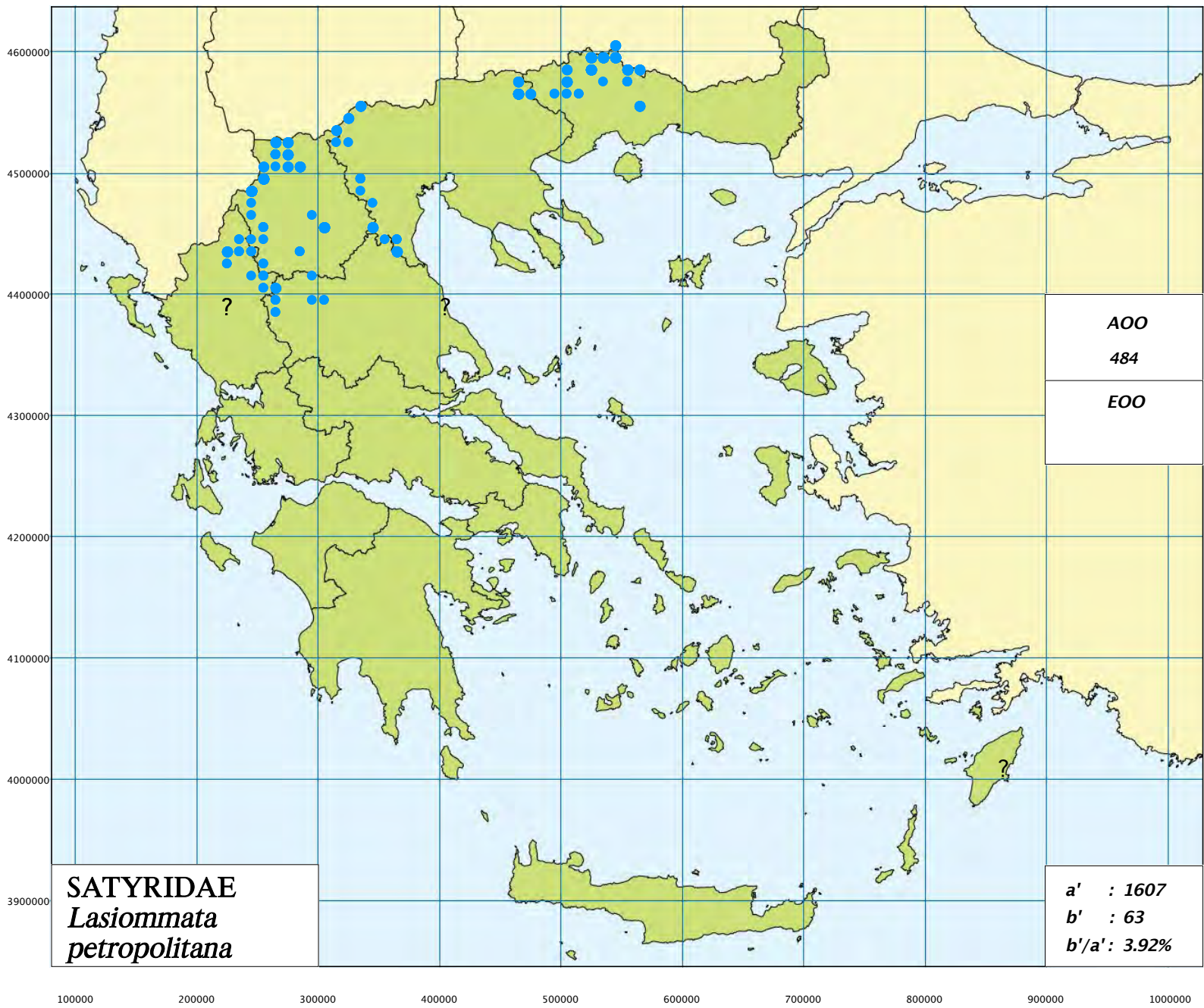


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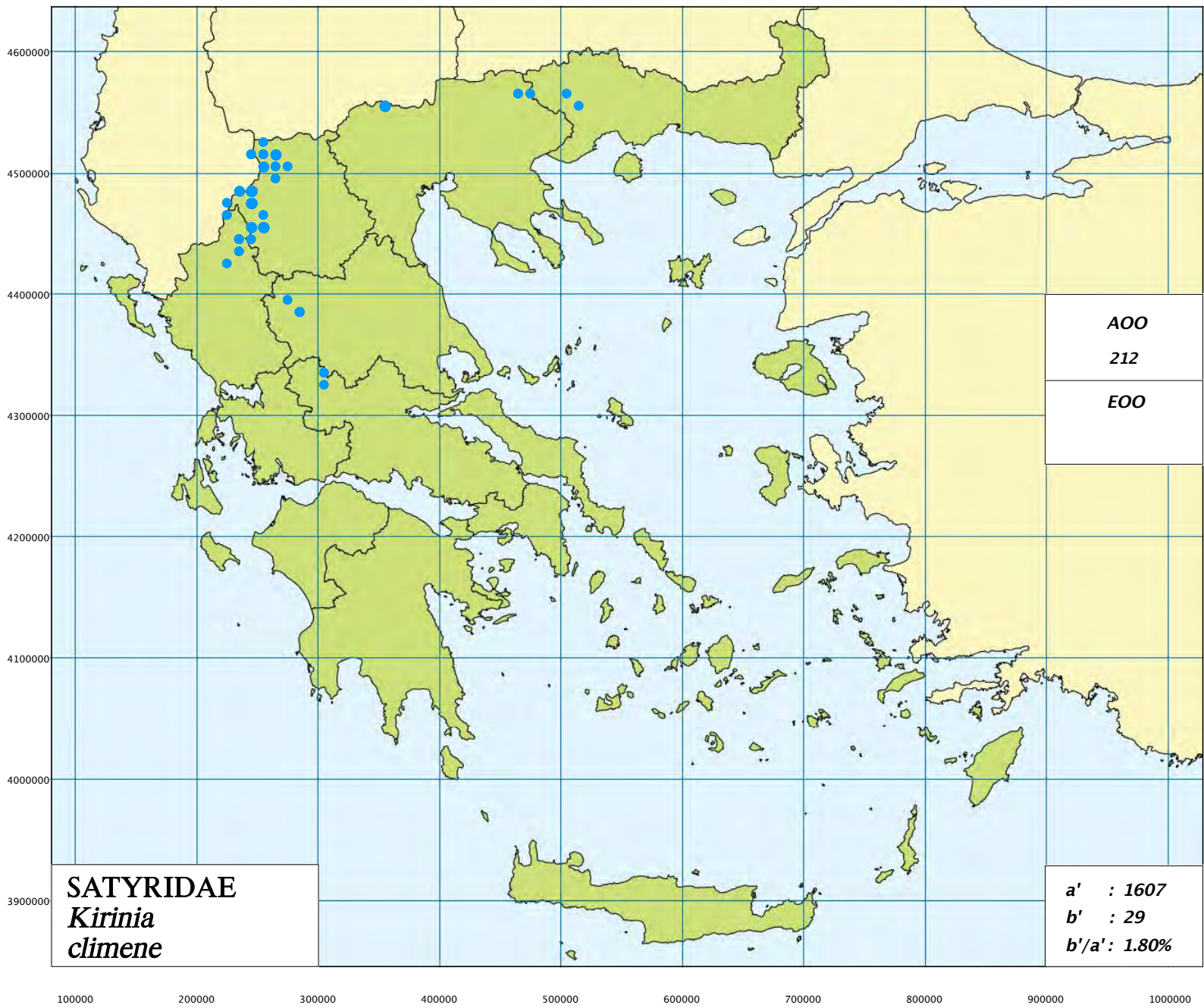


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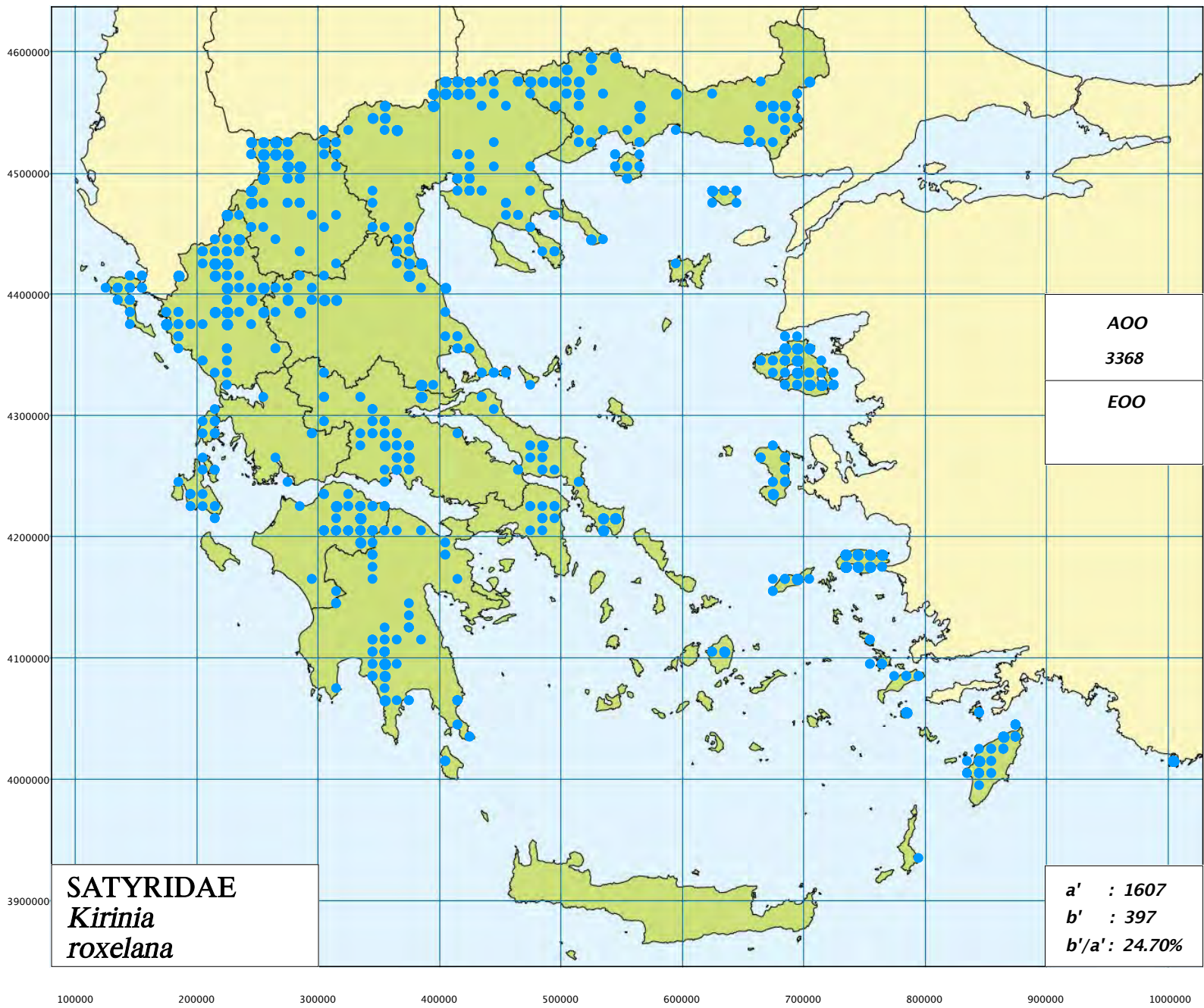


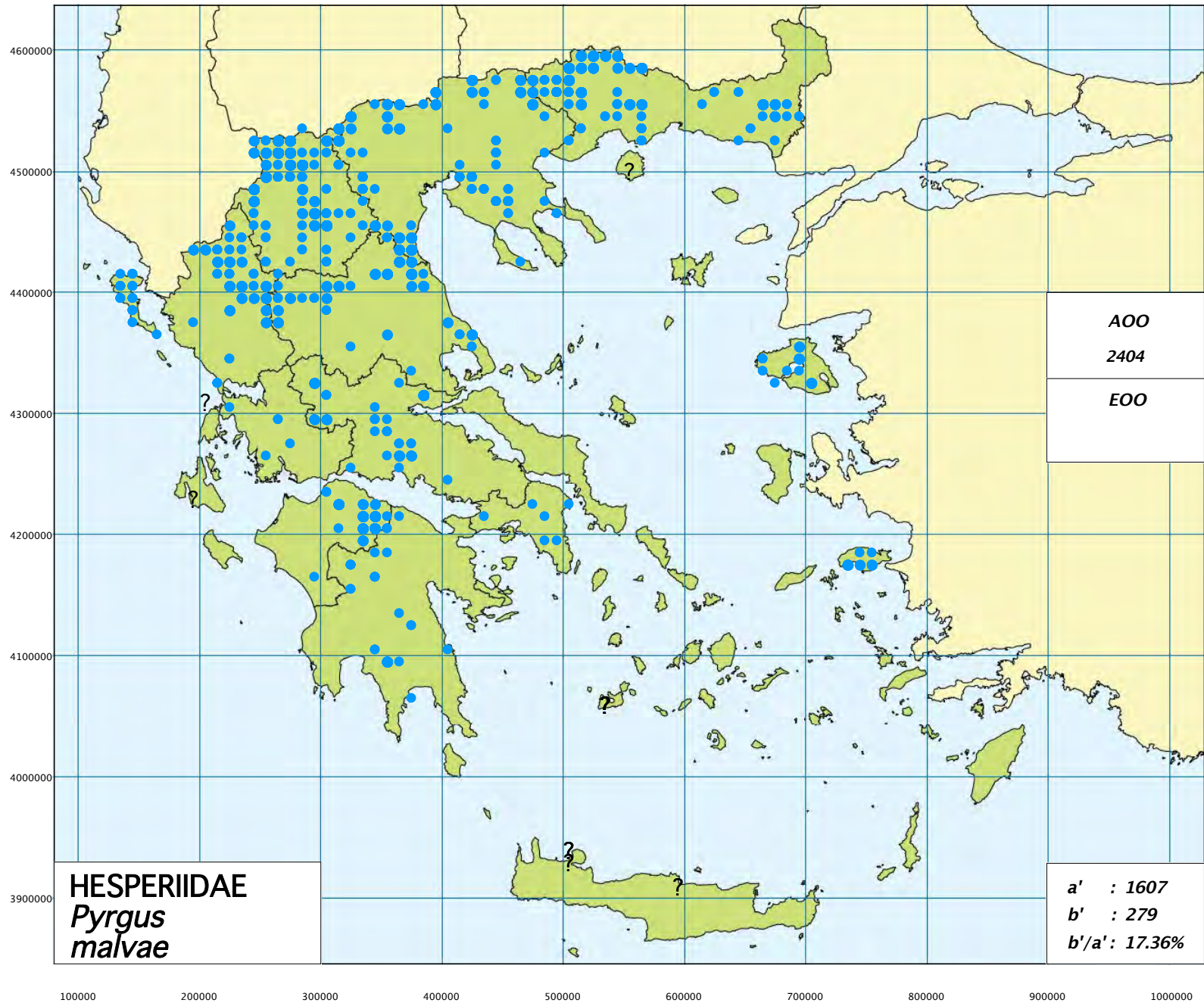


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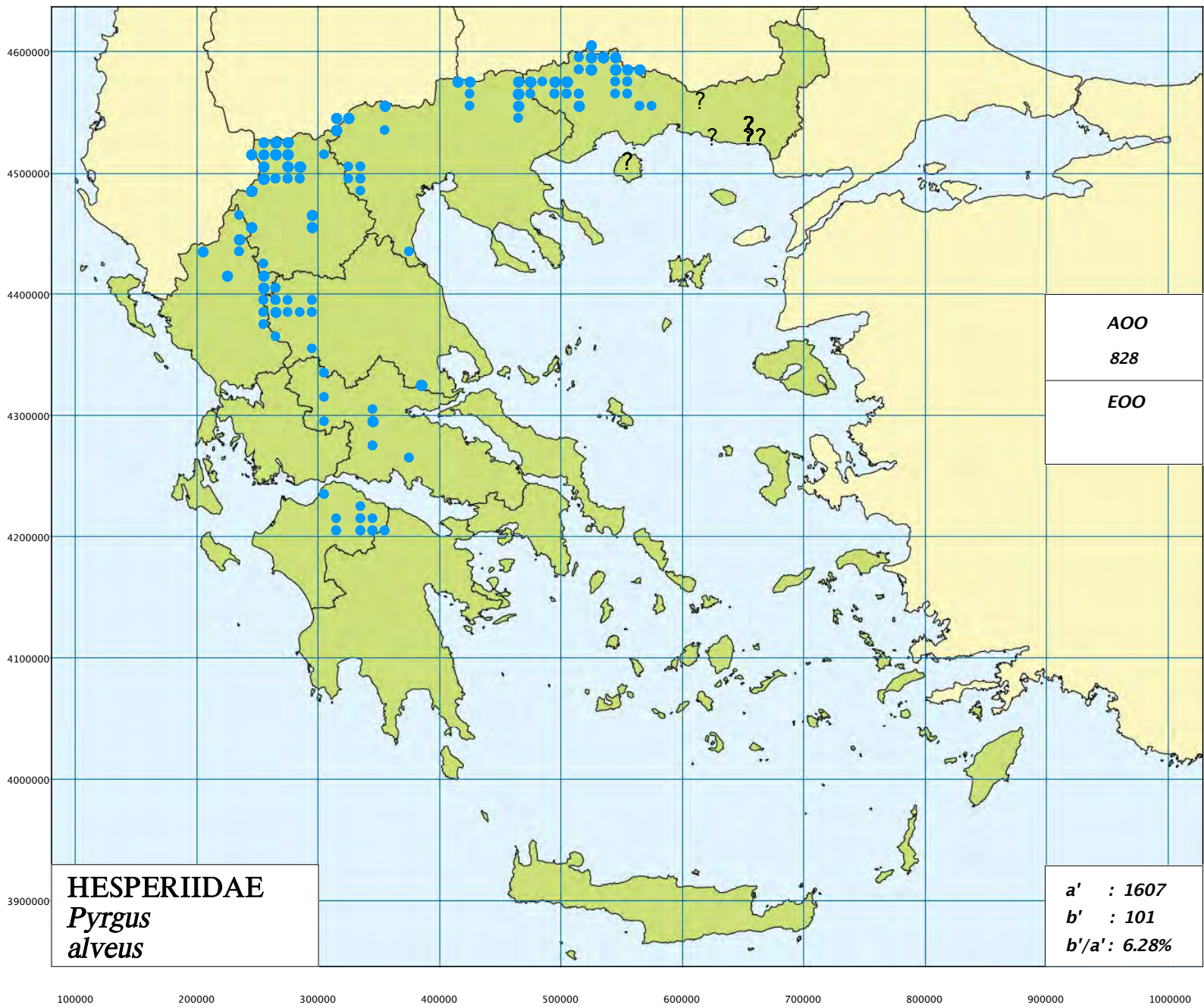






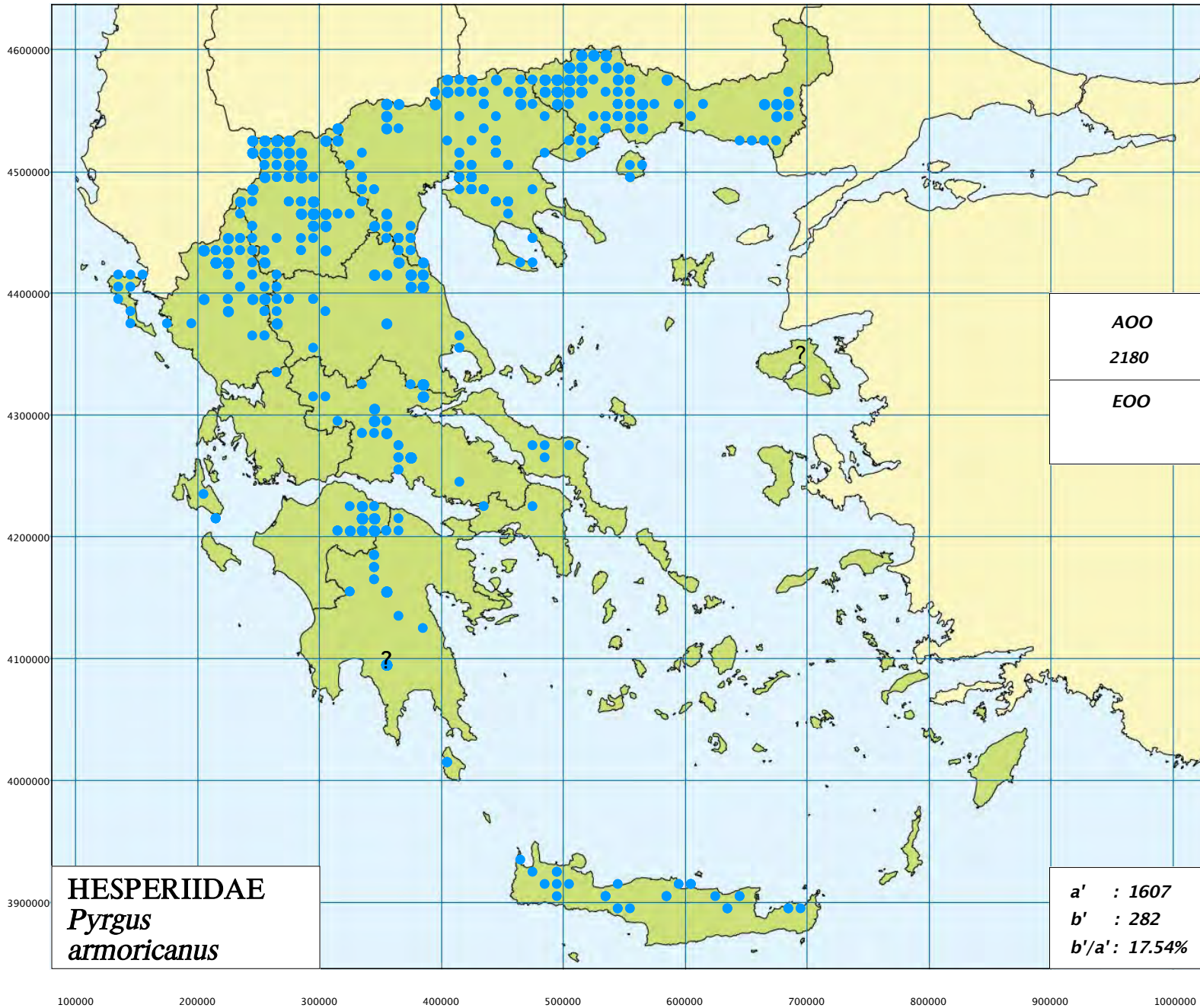
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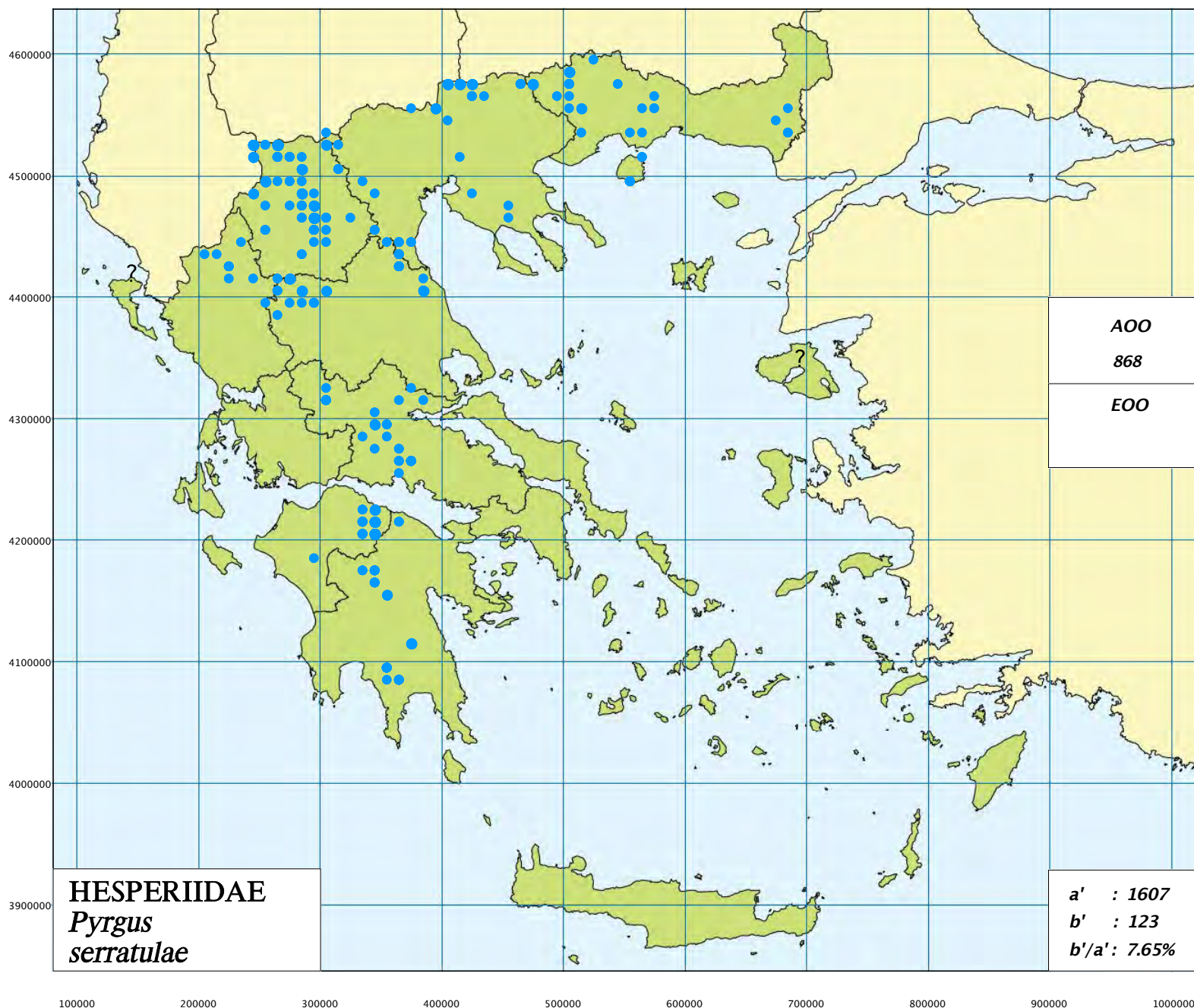
Αμφίβολη αναγνώριση/  
Identification Uncertain



<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>



Αμφίβολη αναγνώριση/  
Identification Uncertain



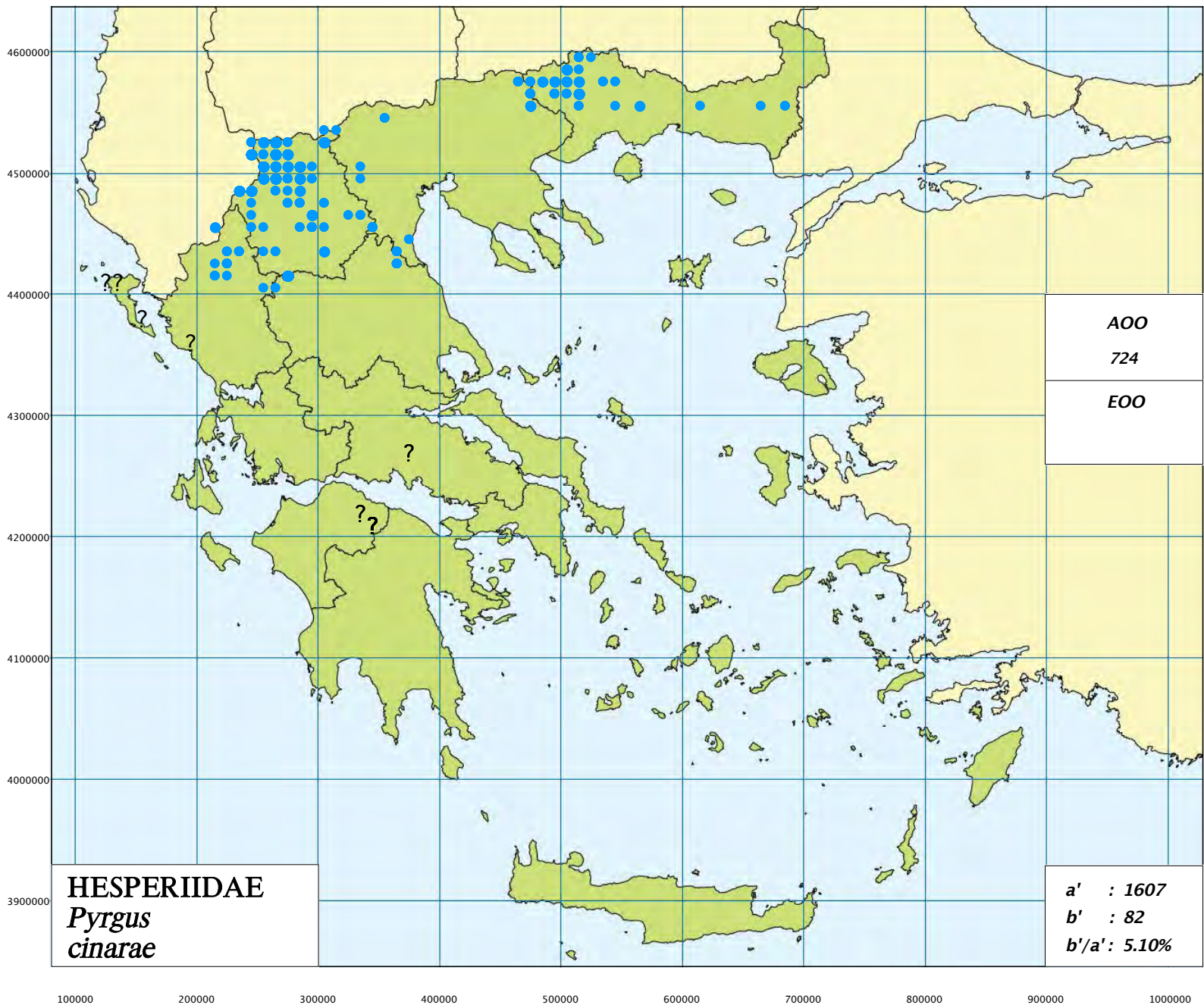
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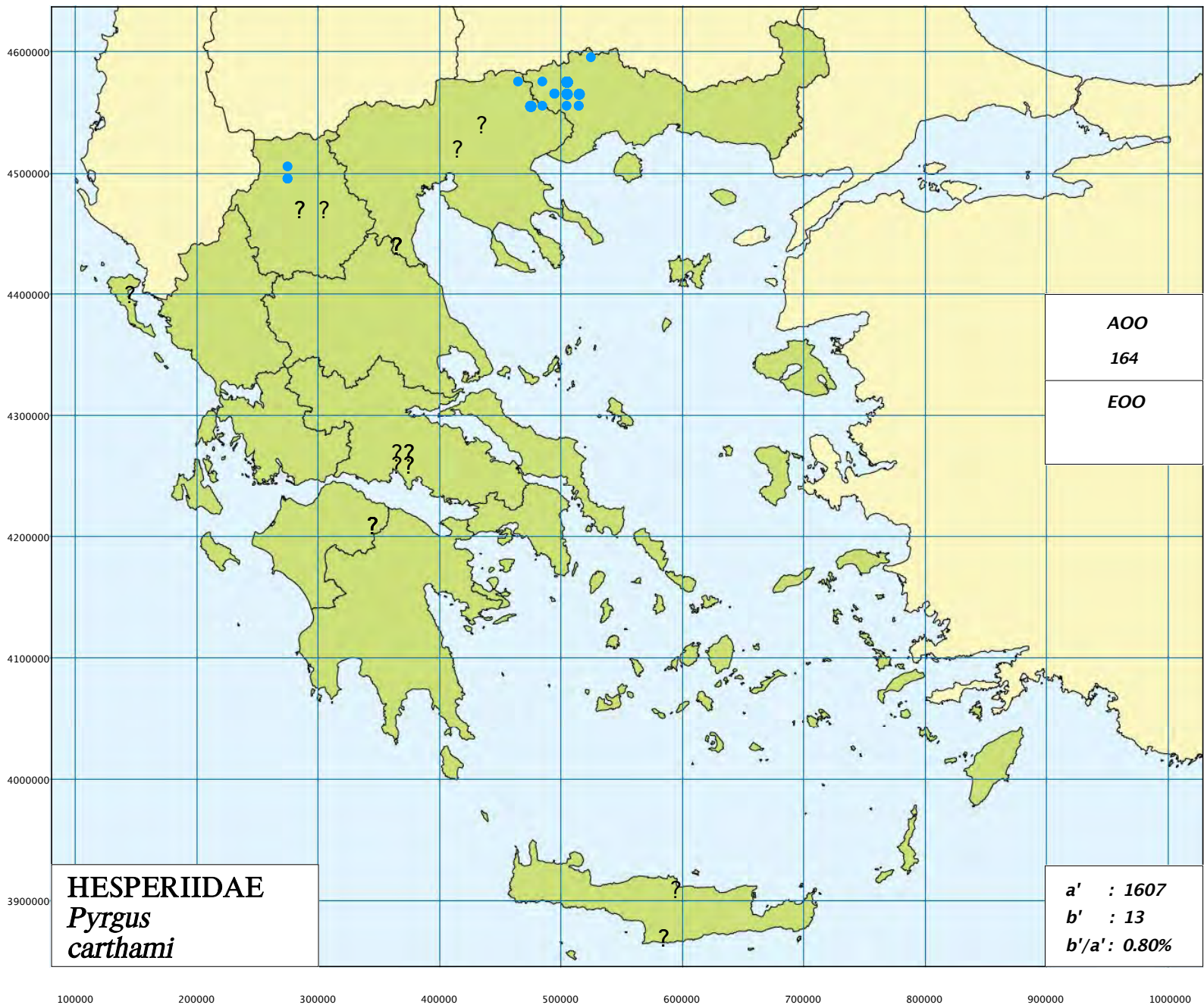
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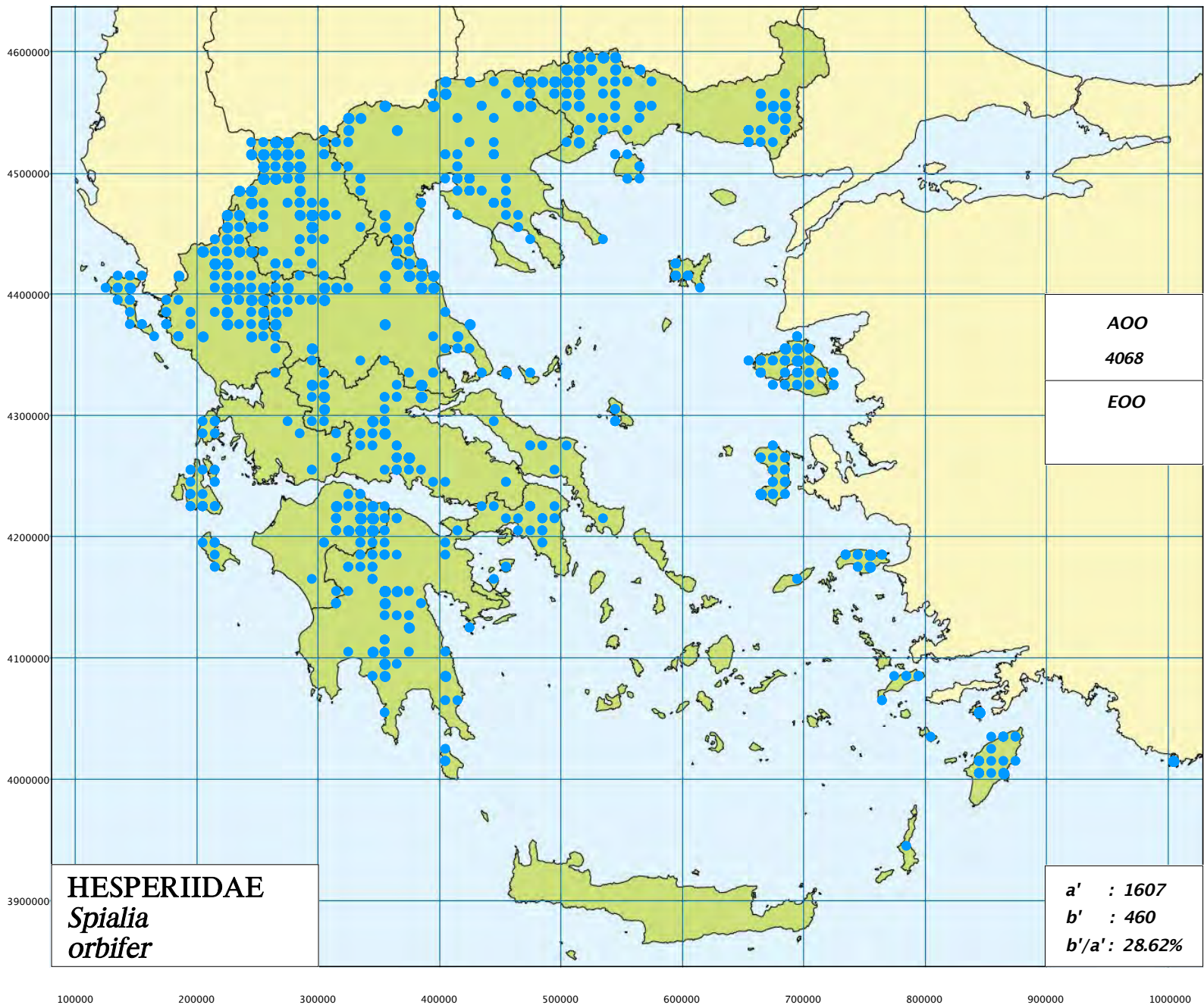


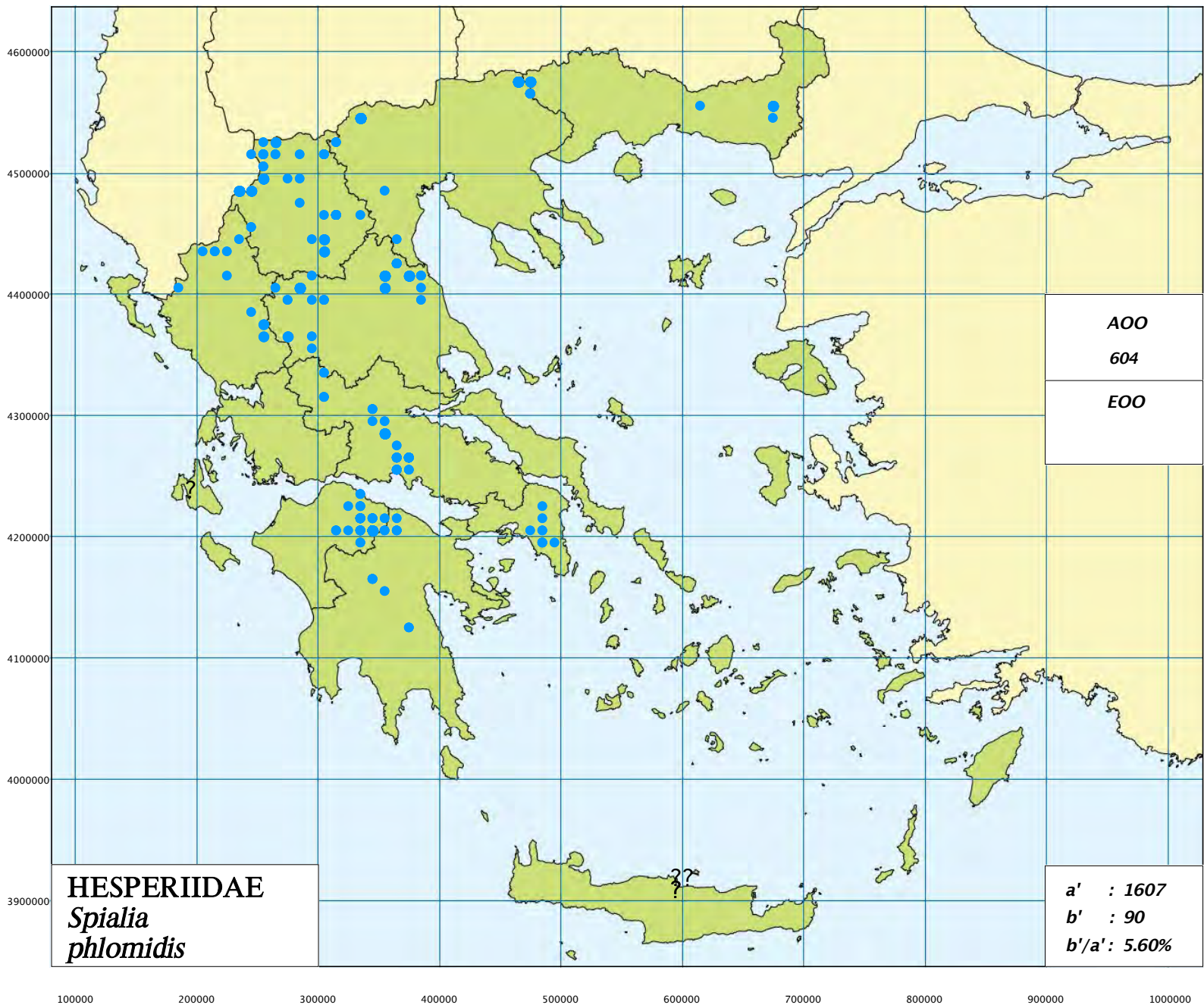
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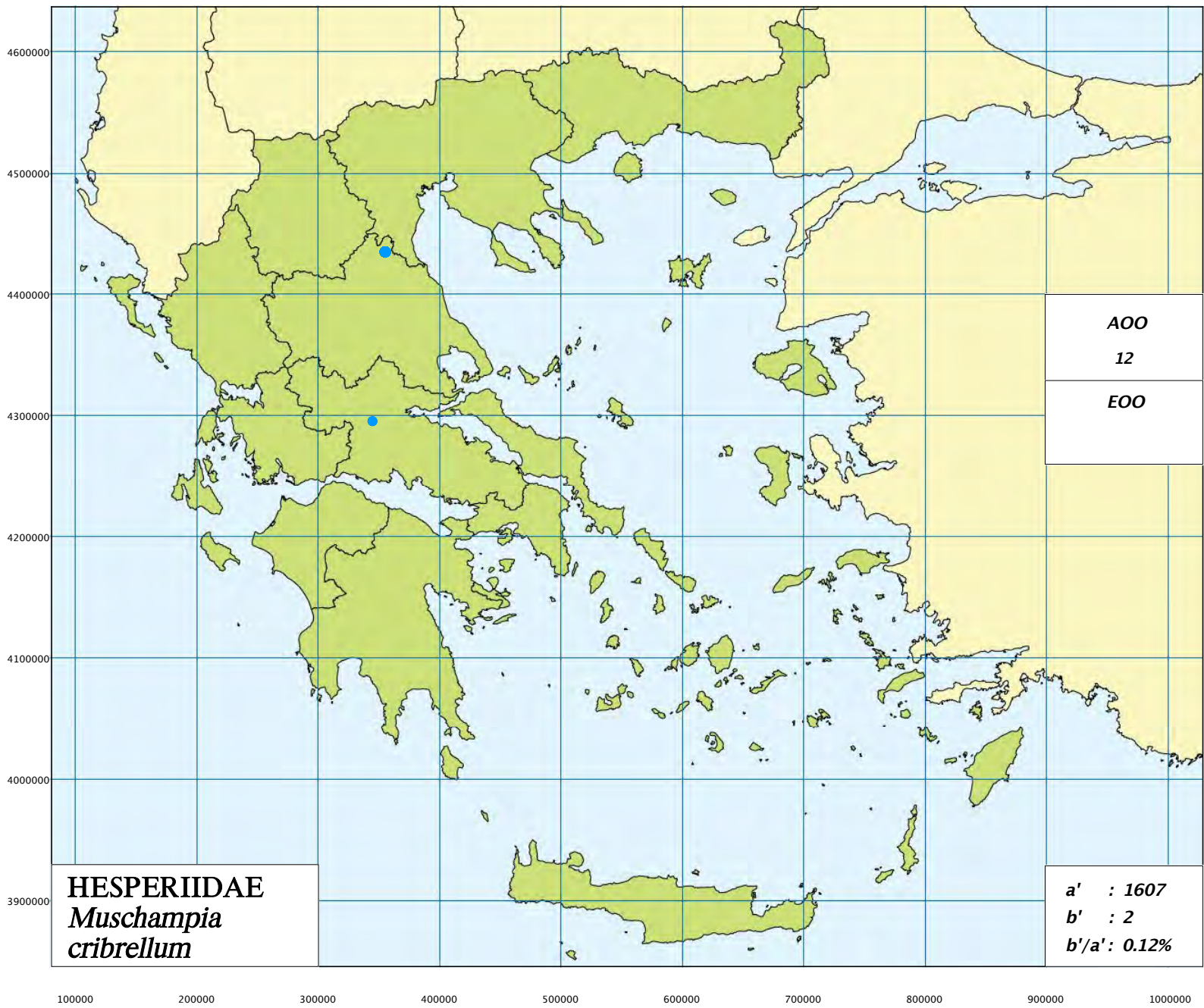
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**AOO**  
12

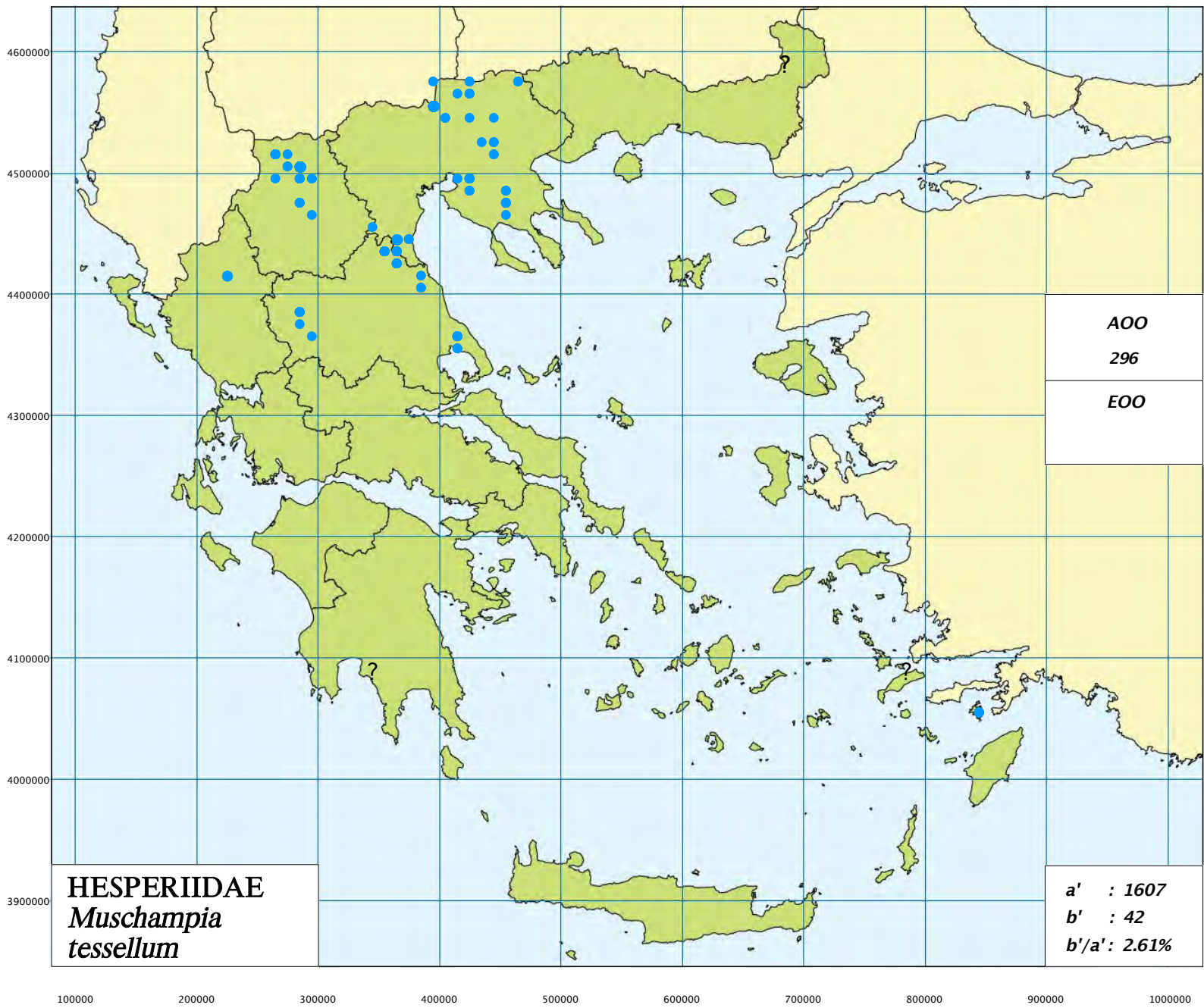
**EOO**

**HESPERIIDAE**  
*Muschampia*  
*cribrillum*

**a' : 1607**  
**b' : 2**  
**b'/a' : 0.12%**

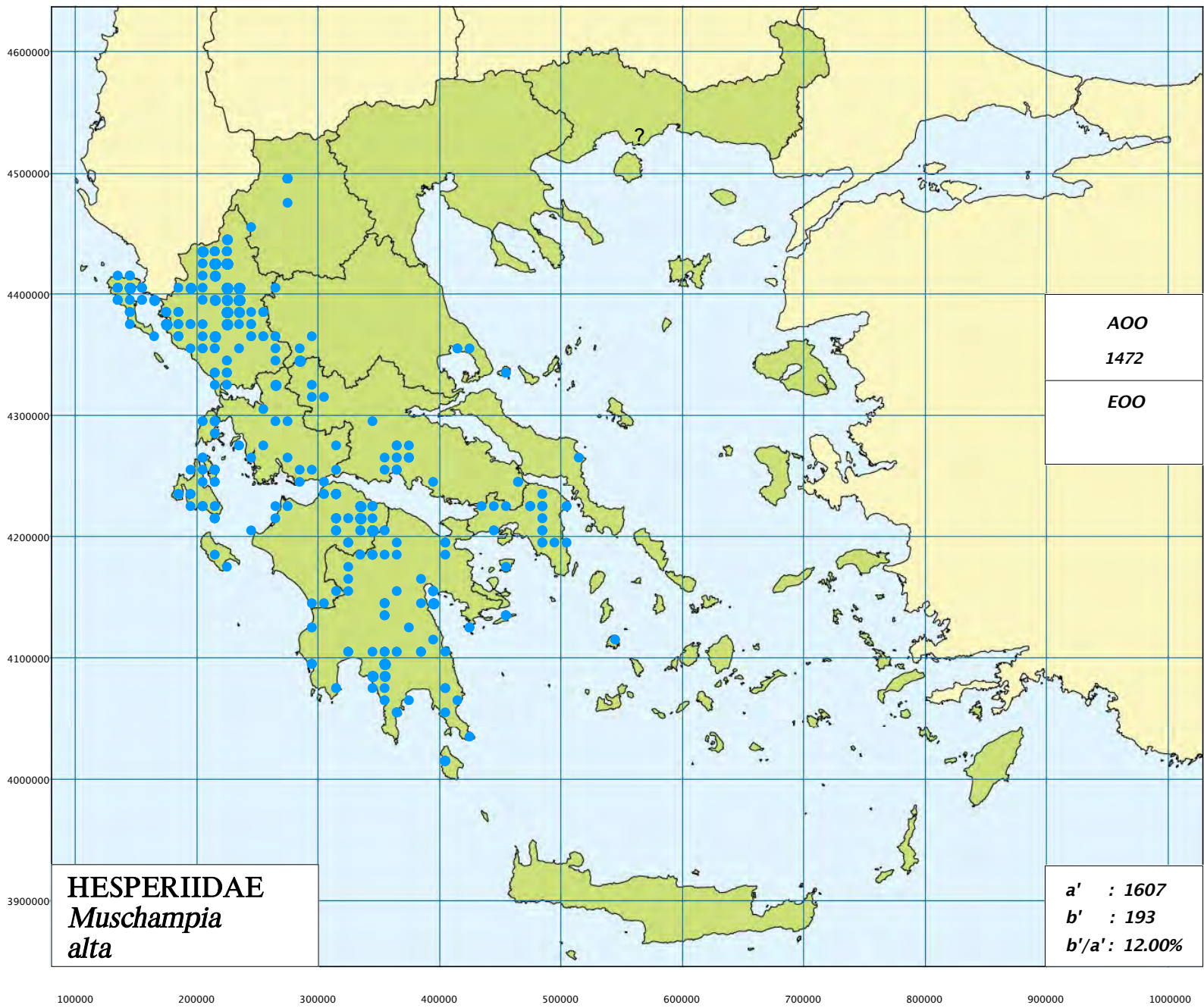
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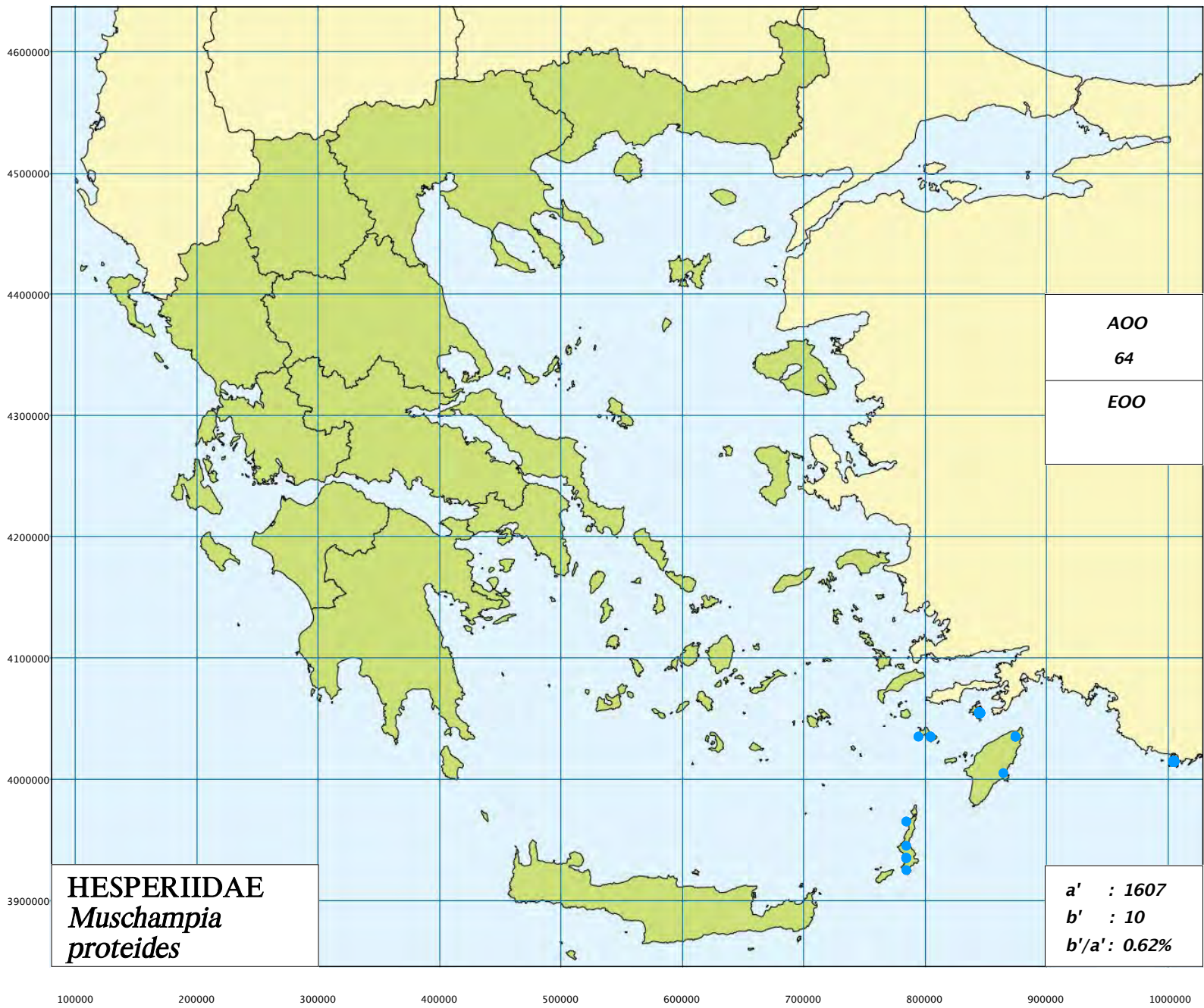


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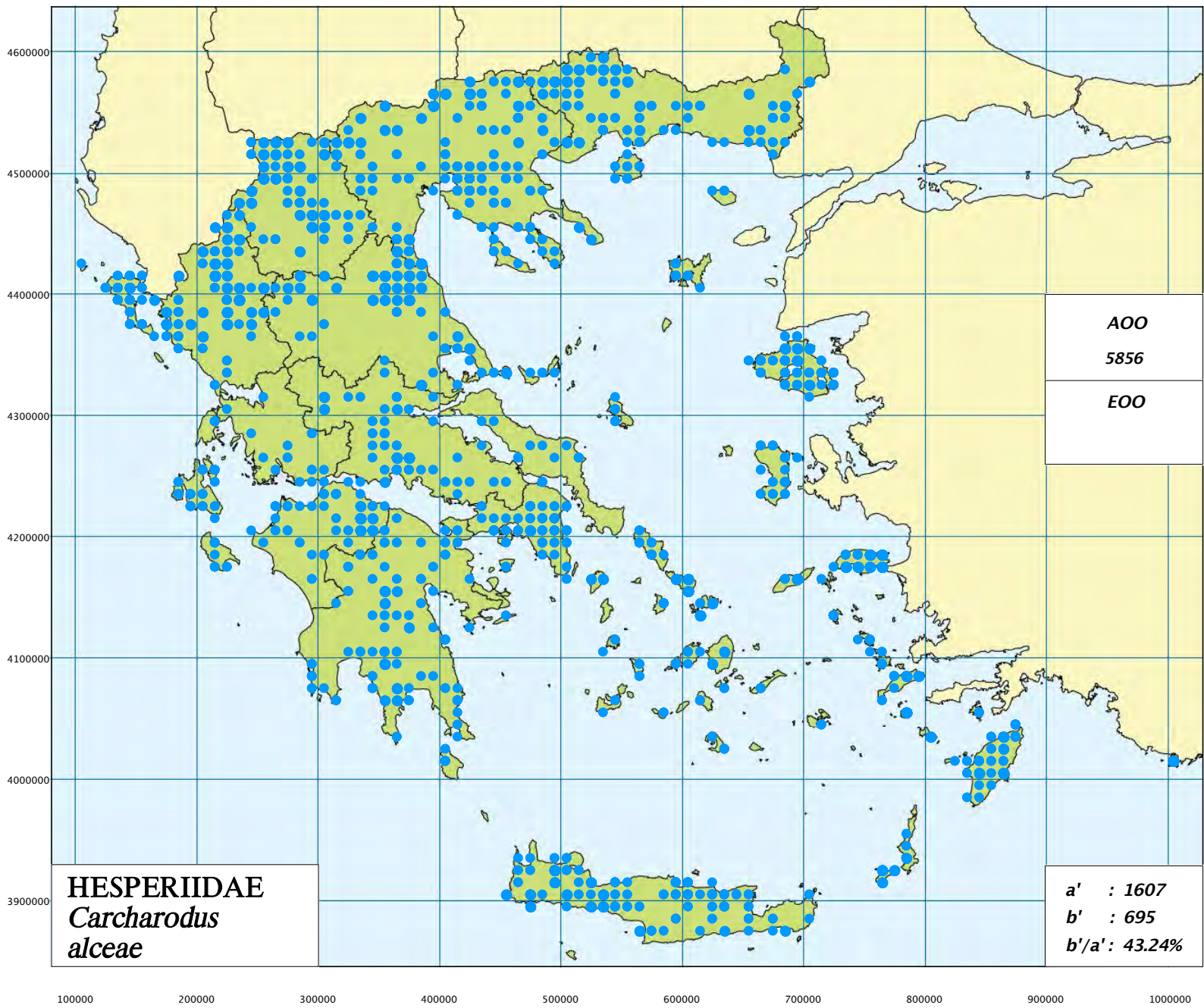


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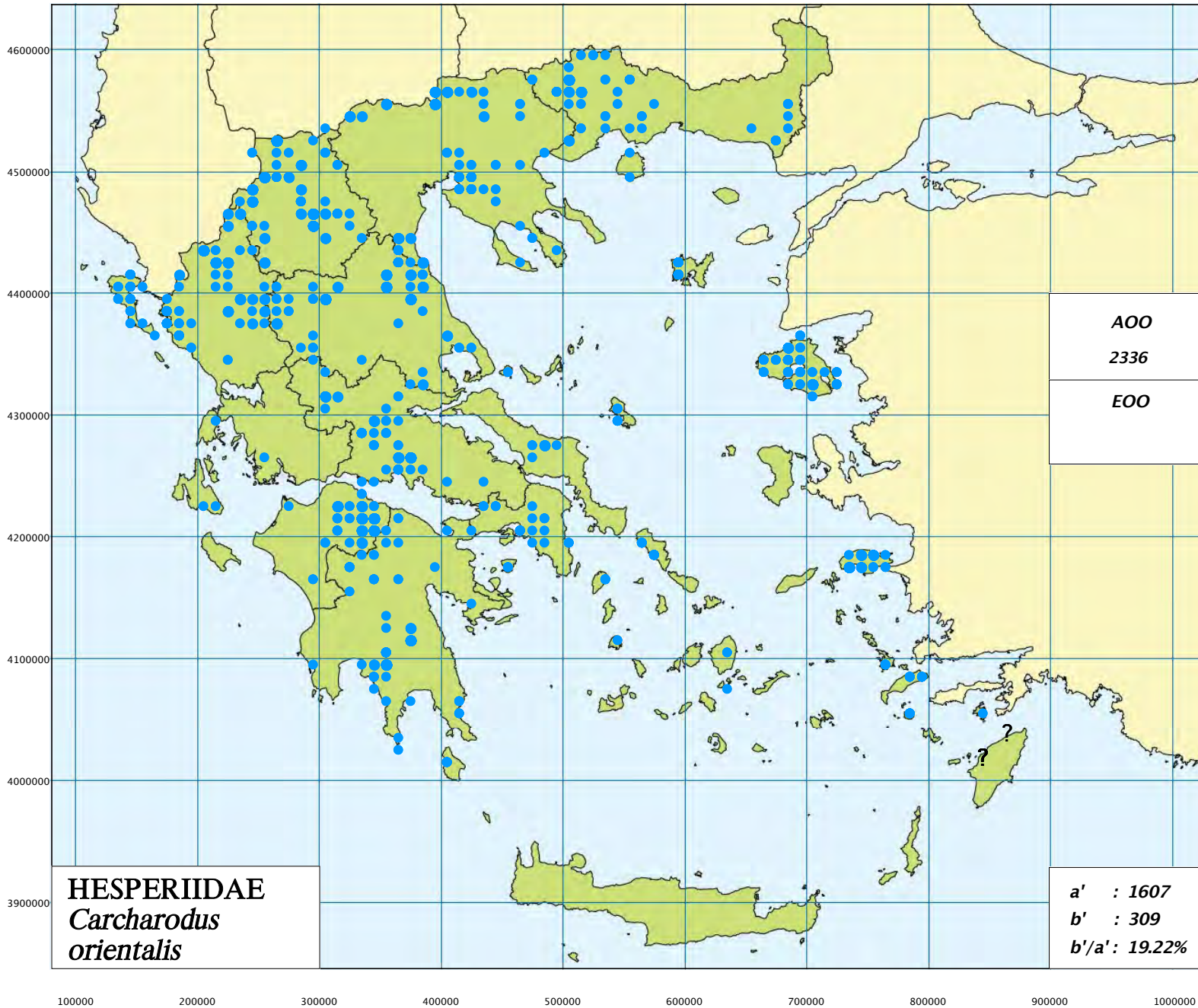
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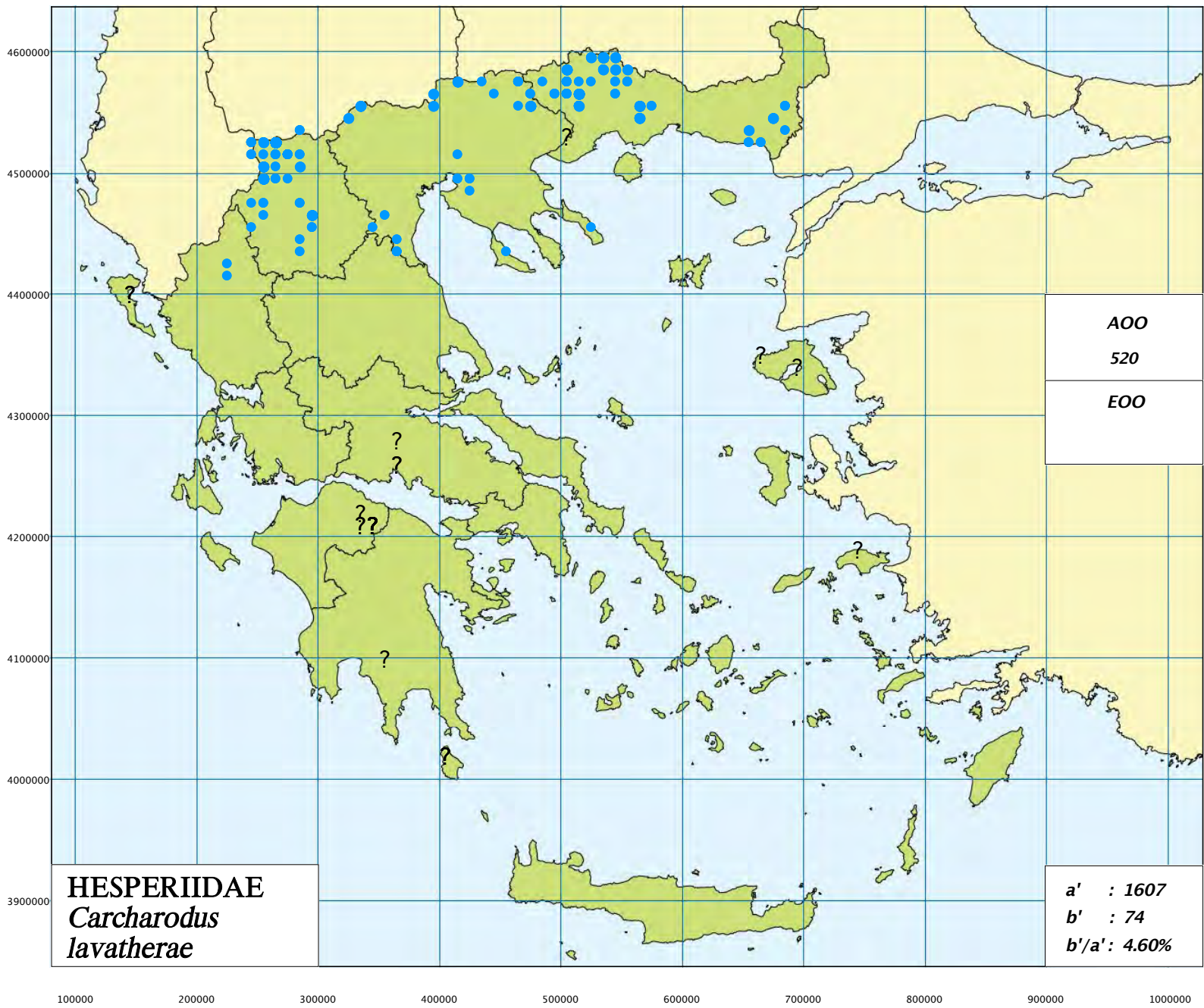
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Αμφίβολη αναγνώριση /  
Identification Uncertain



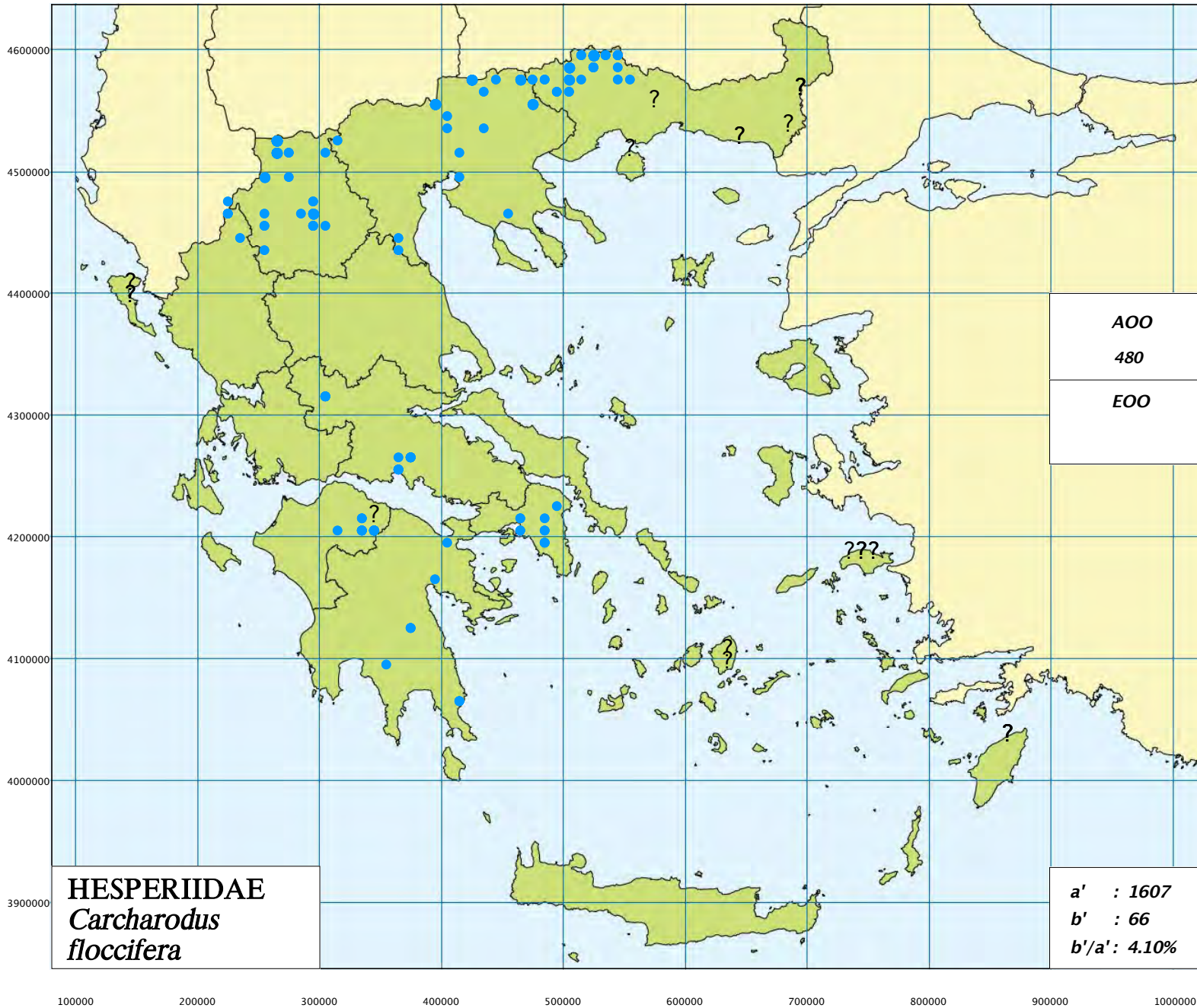
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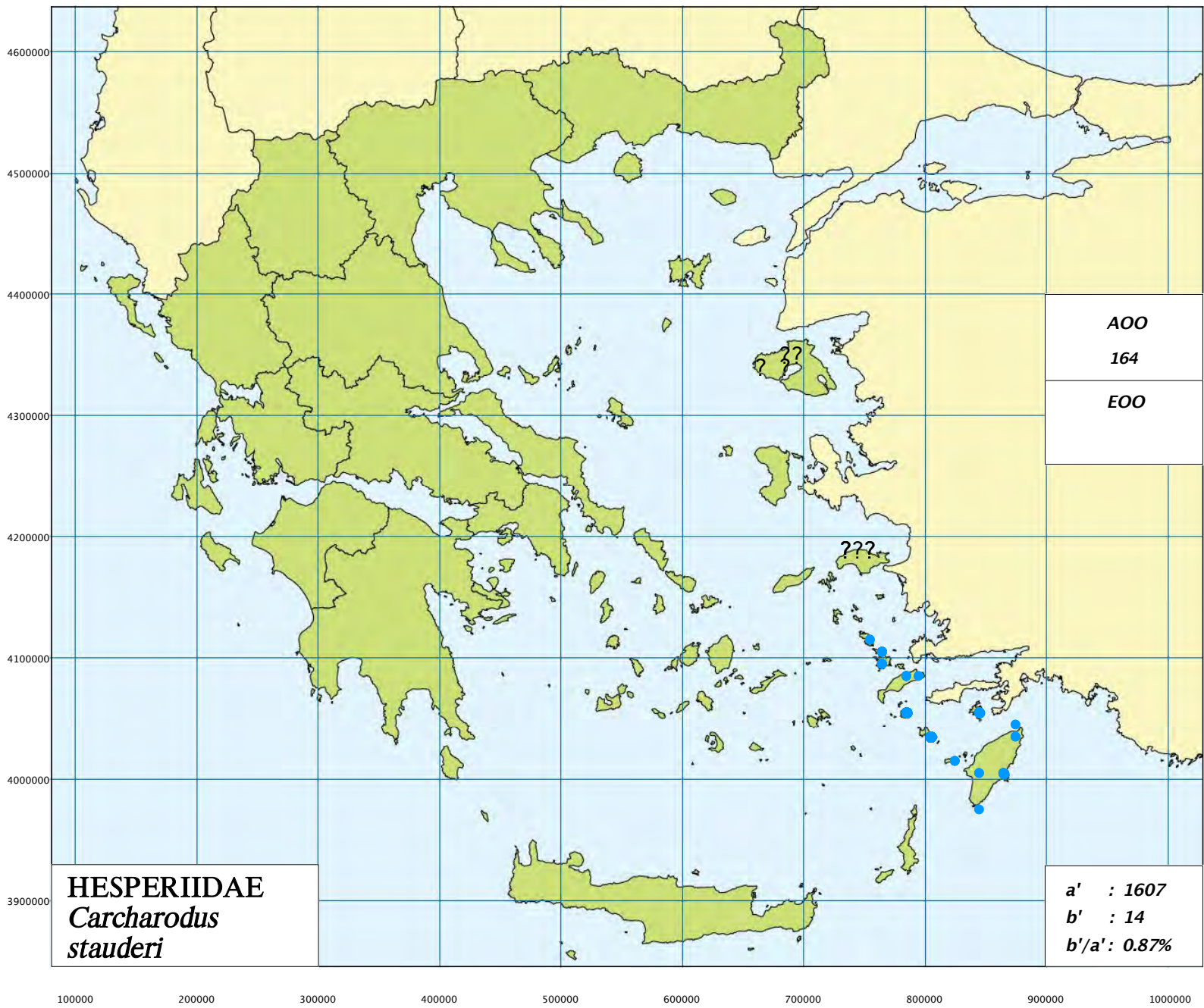
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Αμφίβολη αναγνώριση/  
Identification Uncertain

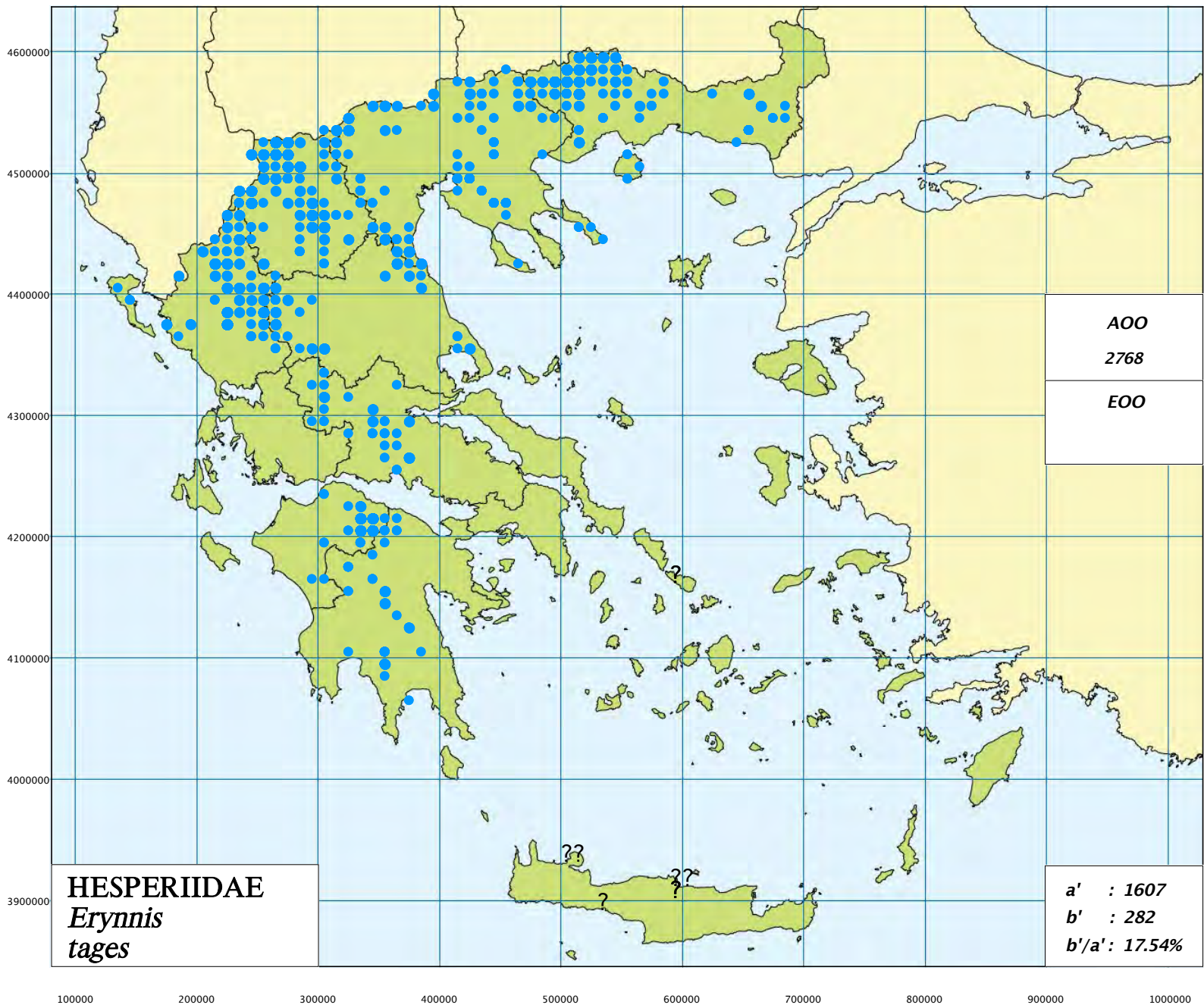


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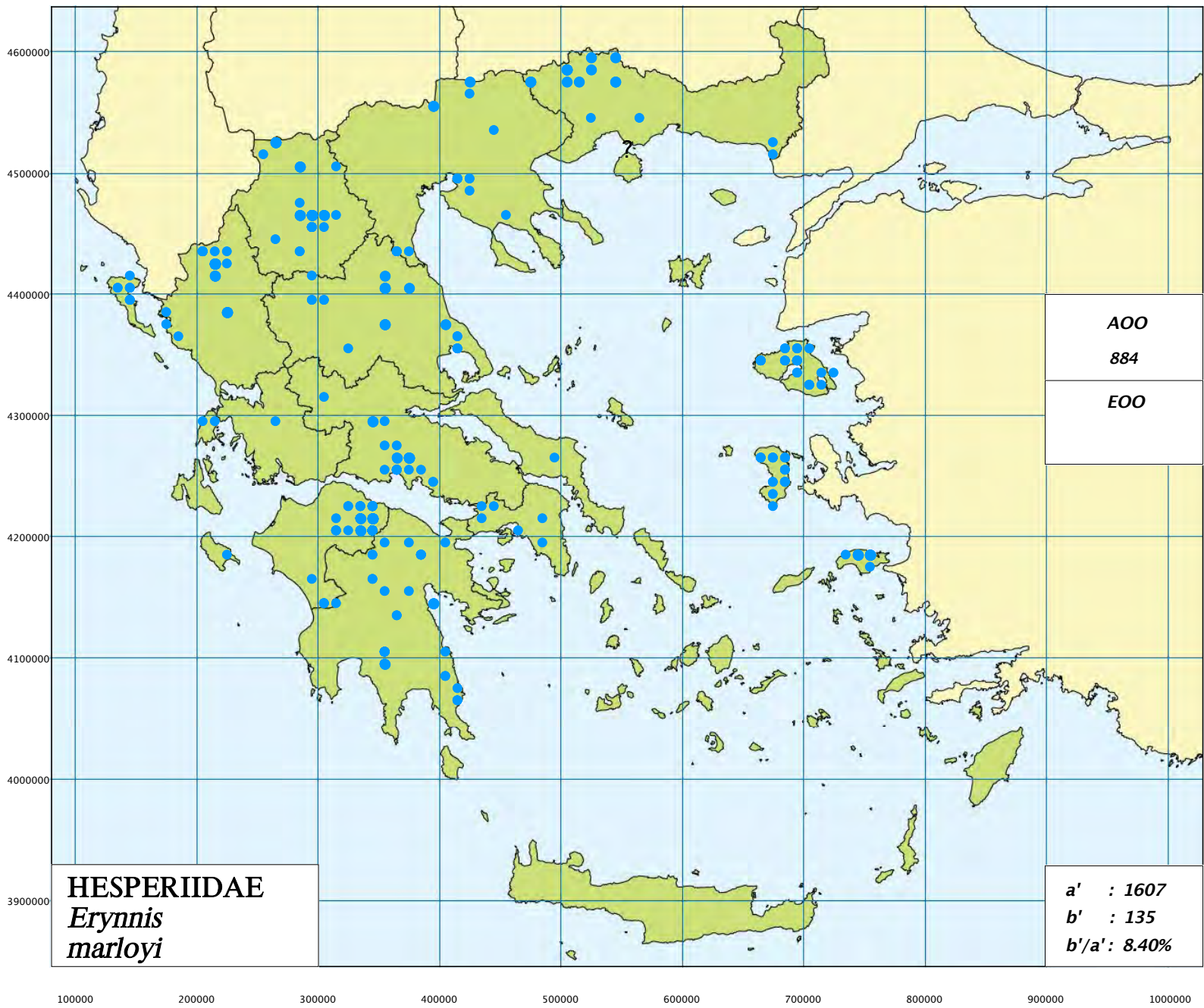


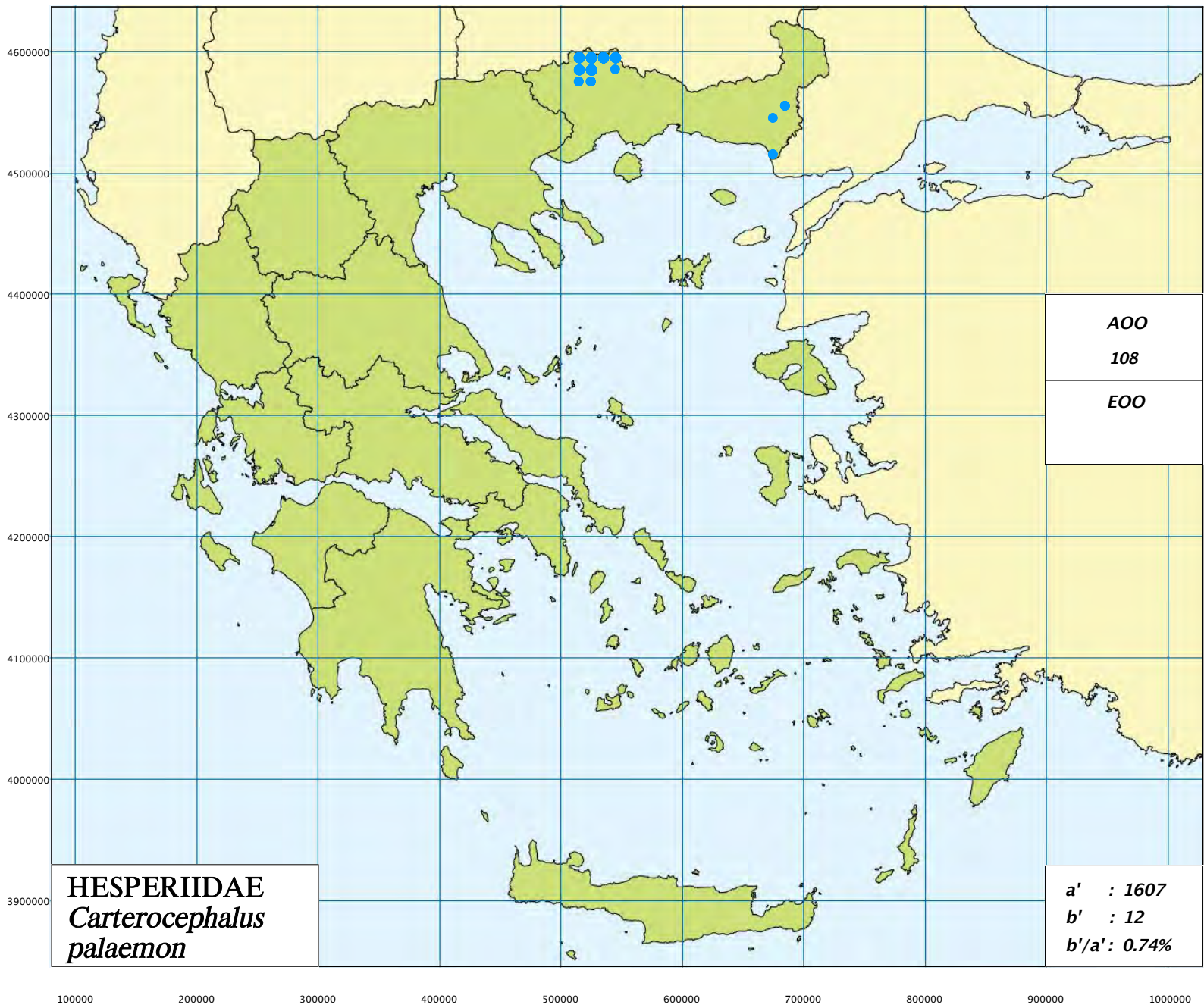


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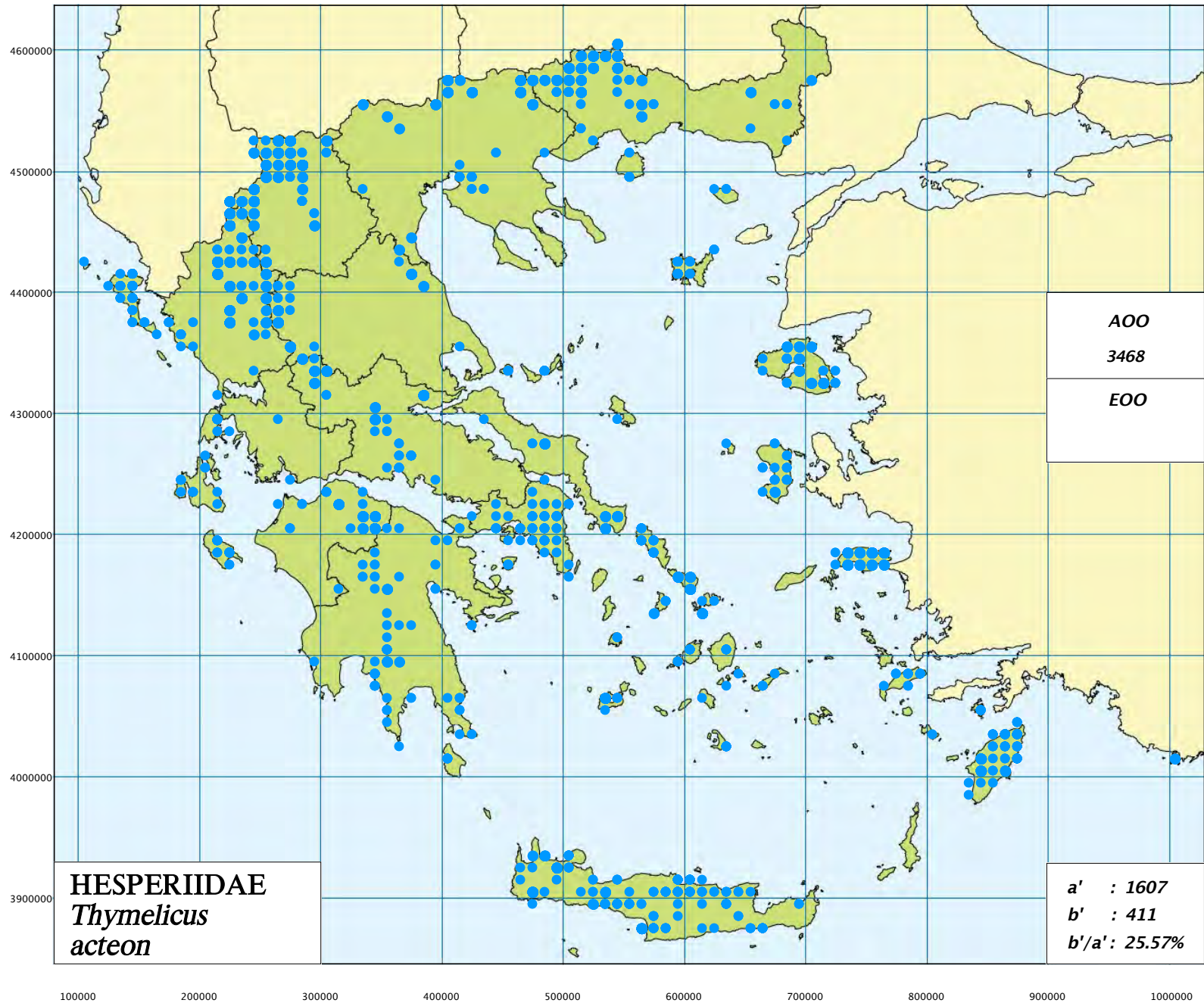




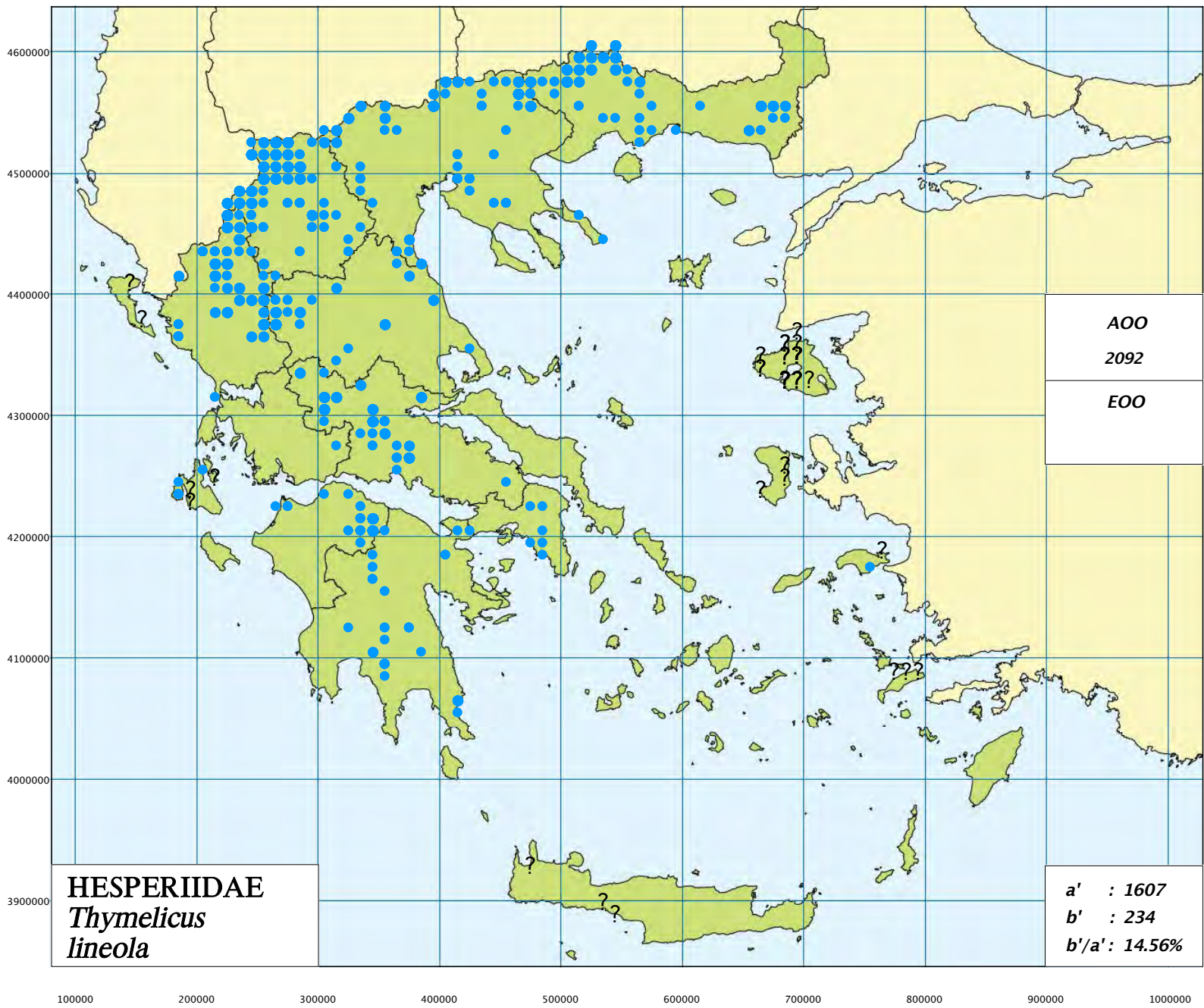






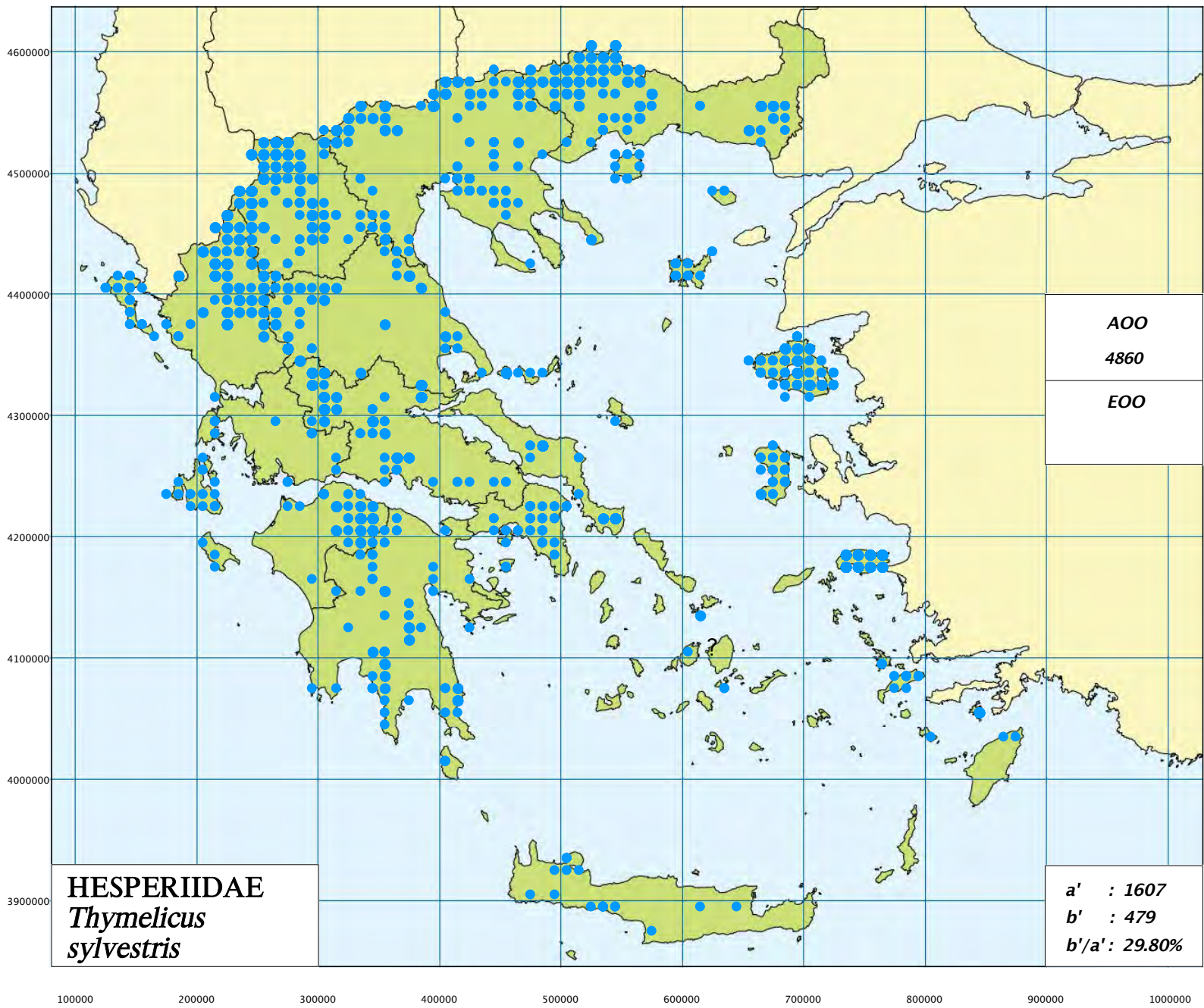


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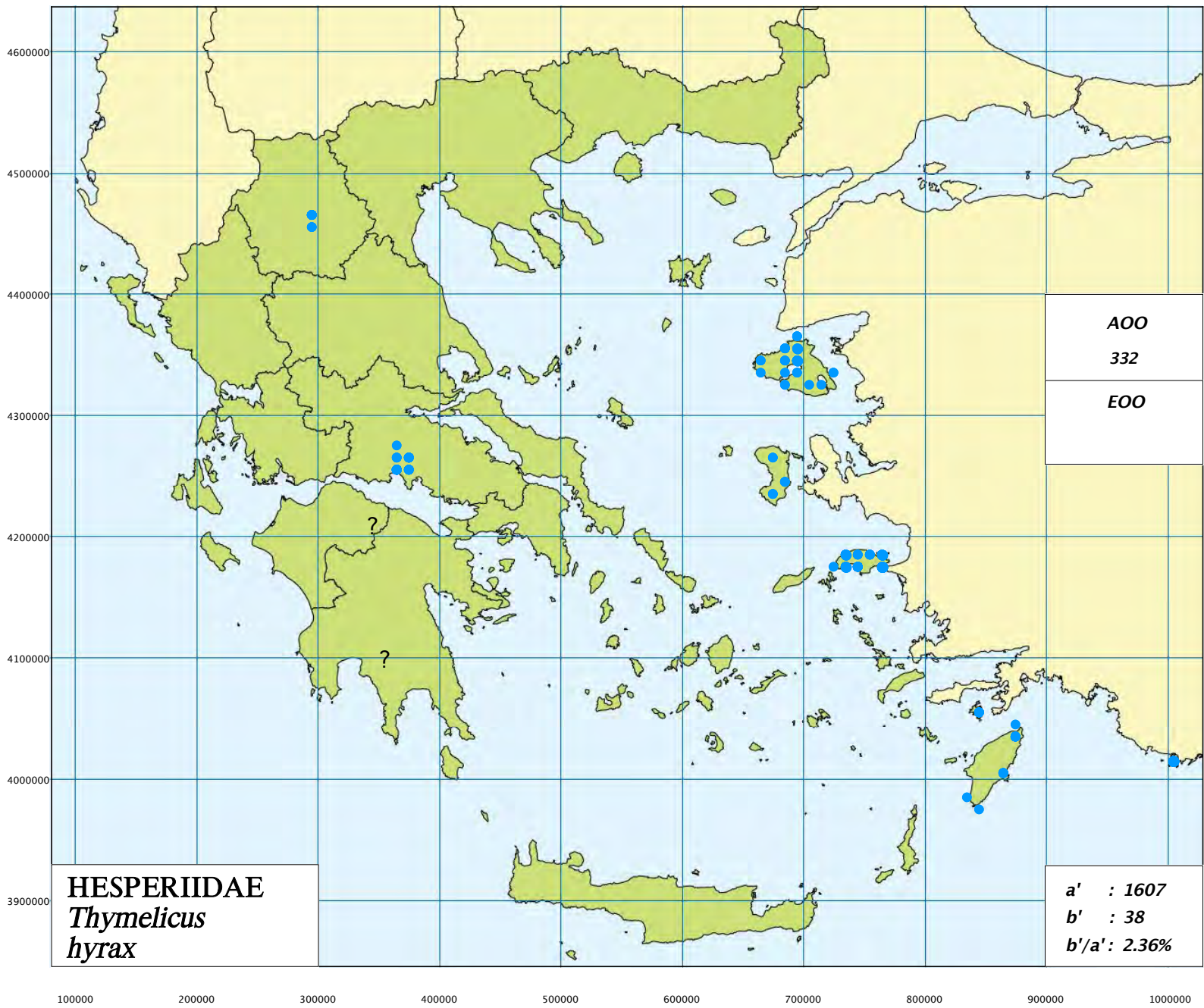


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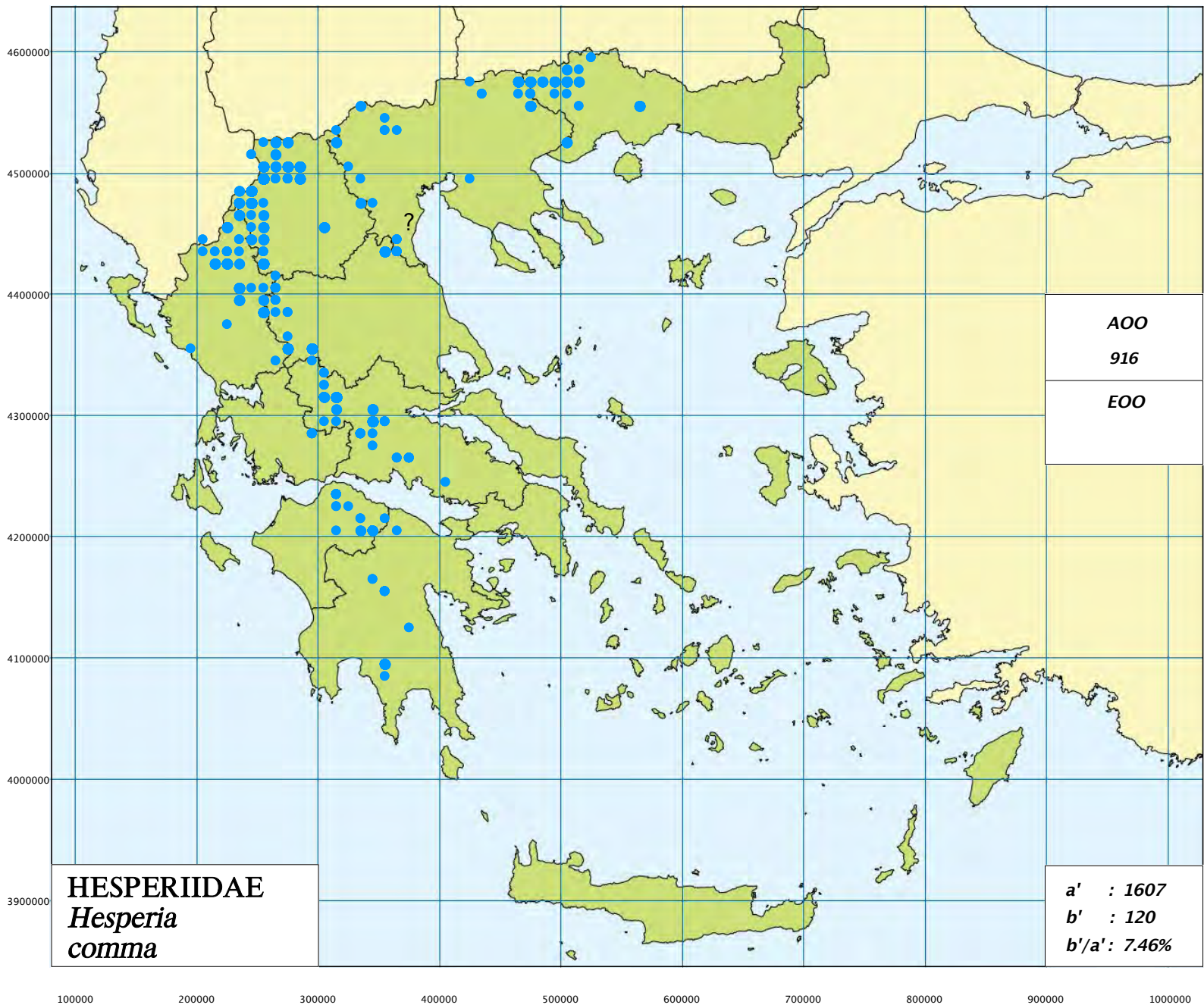


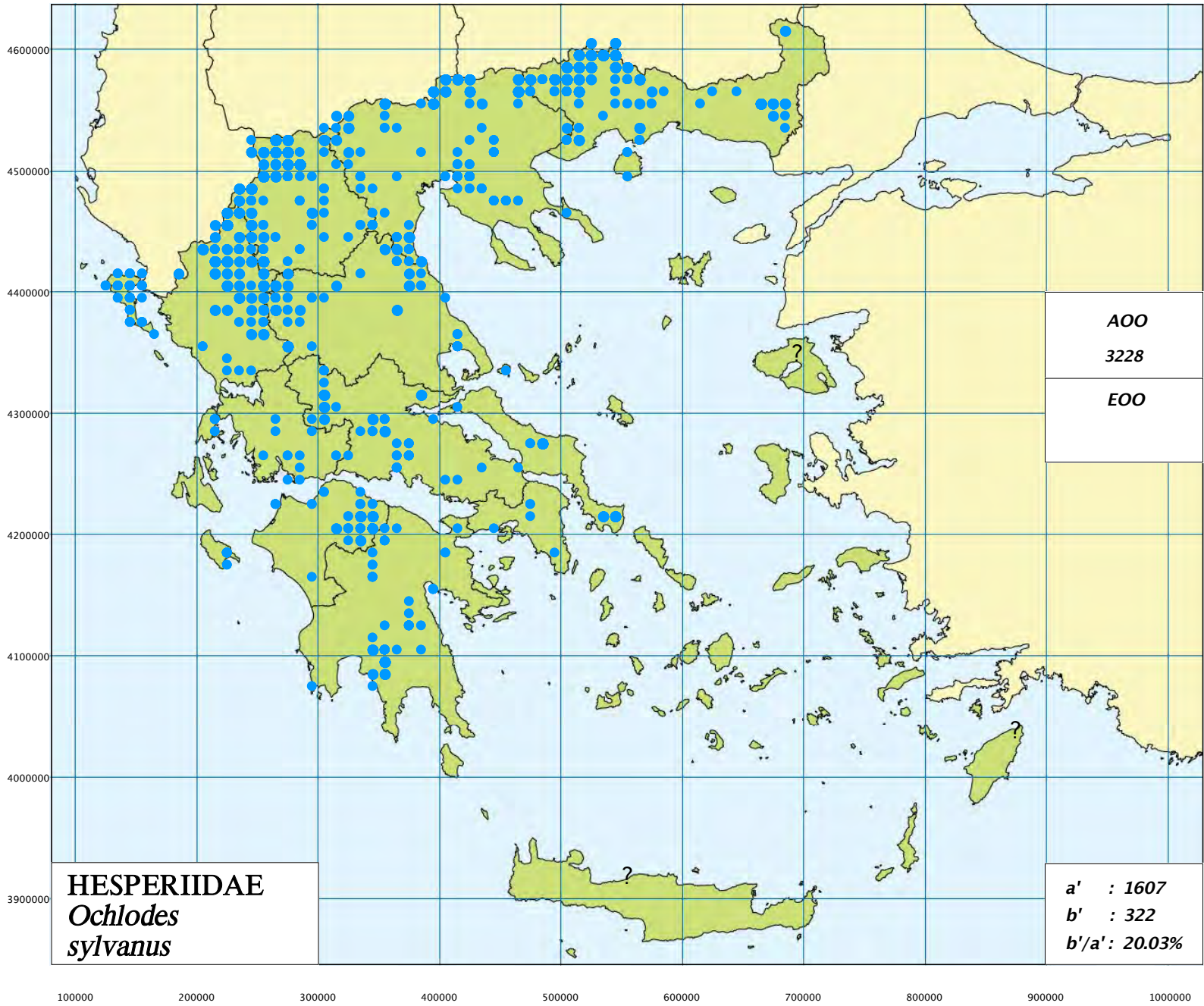
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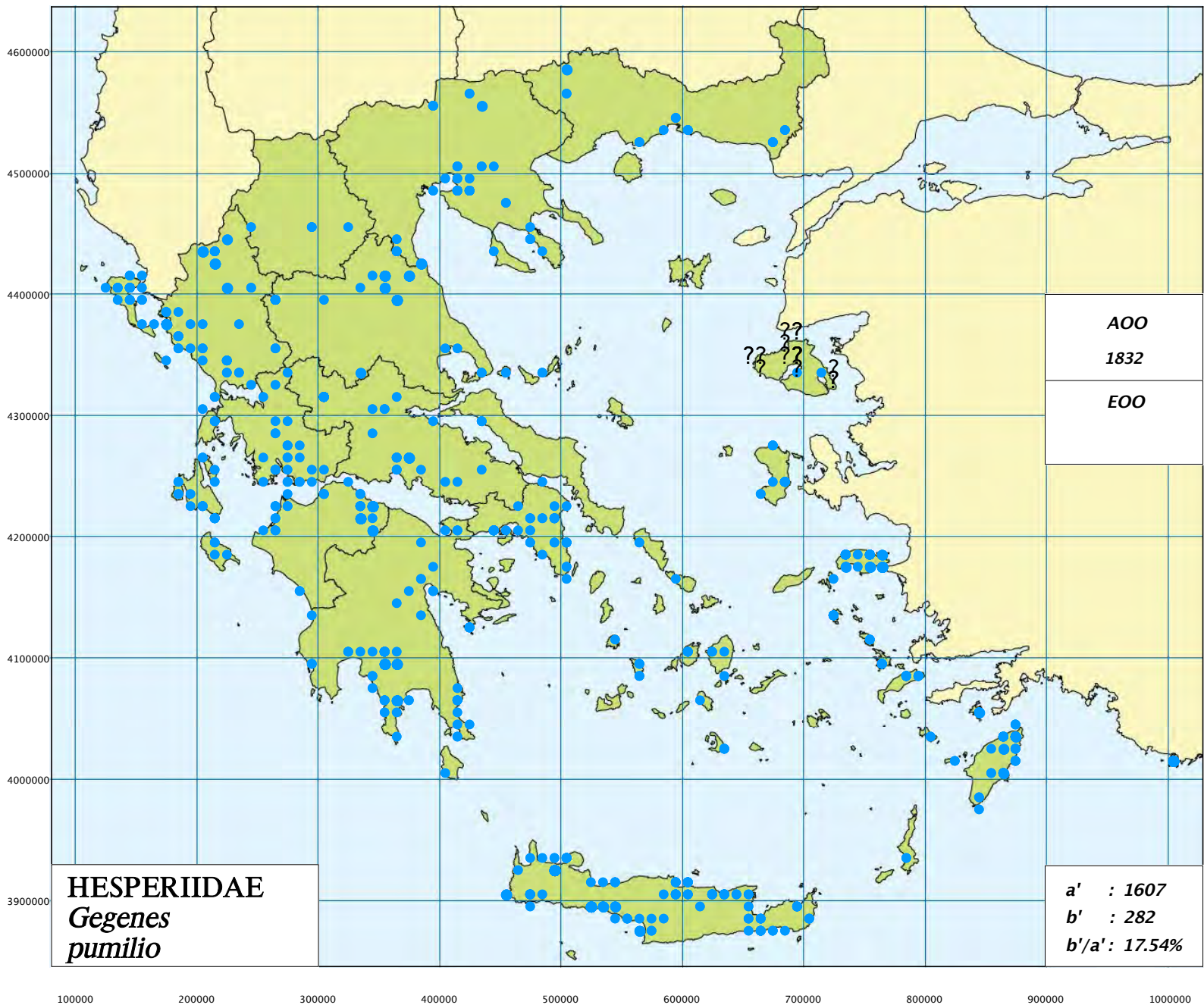
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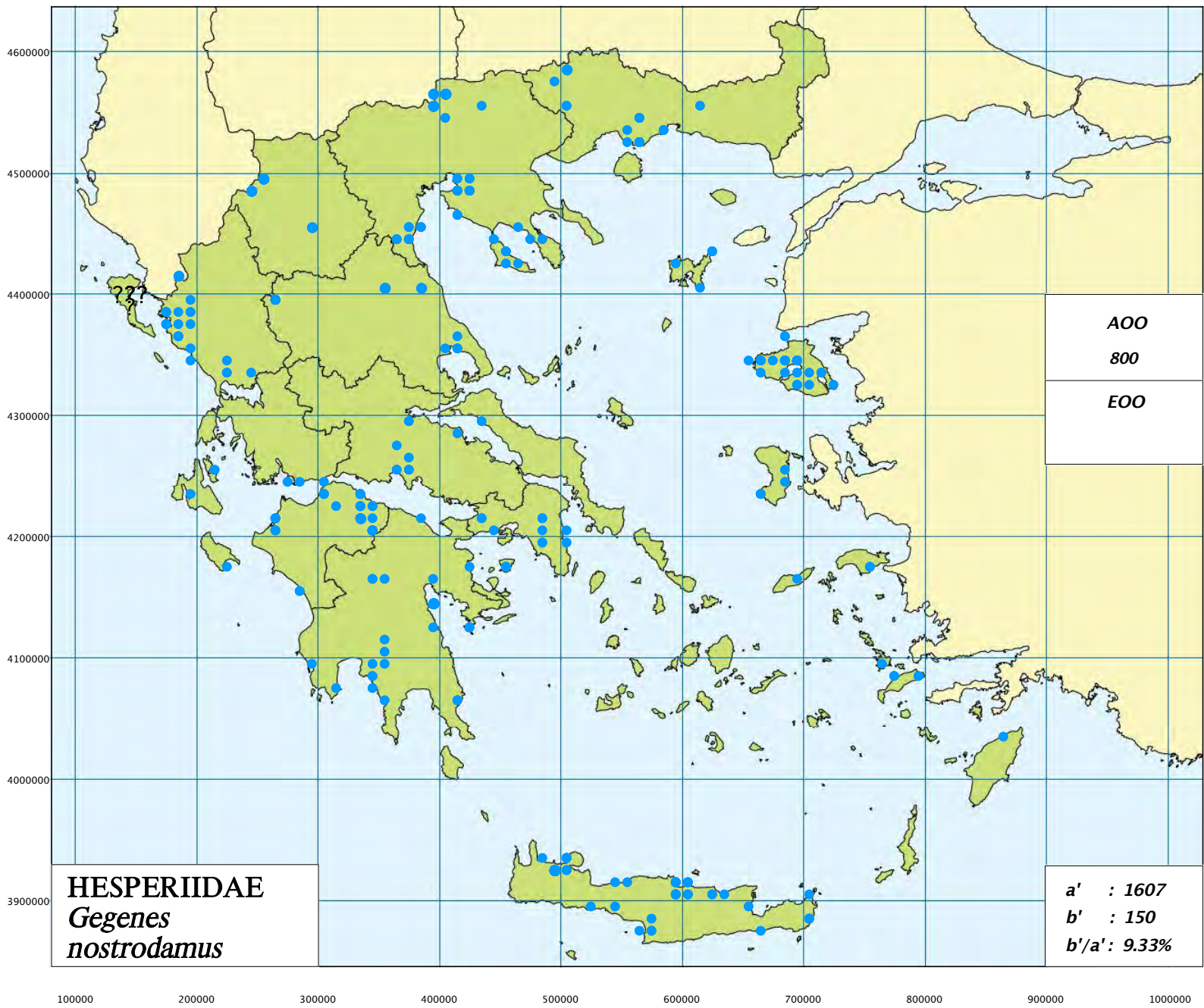








[http://www.pamperis.gr/PHOTOGRAPHS/Gegenes\\_pumilio\\_nostrodamus\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Gegenes_pumilio_nostrodamus_complex.html)



[http://www.pamperis.gr/PHOTOGRAPHS/Gegenes\\_pumilio\\_nostradamus\\_complex.html](http://www.pamperis.gr/PHOTOGRAPHS/Gegenes_pumilio_nostradamus_complex.html)



