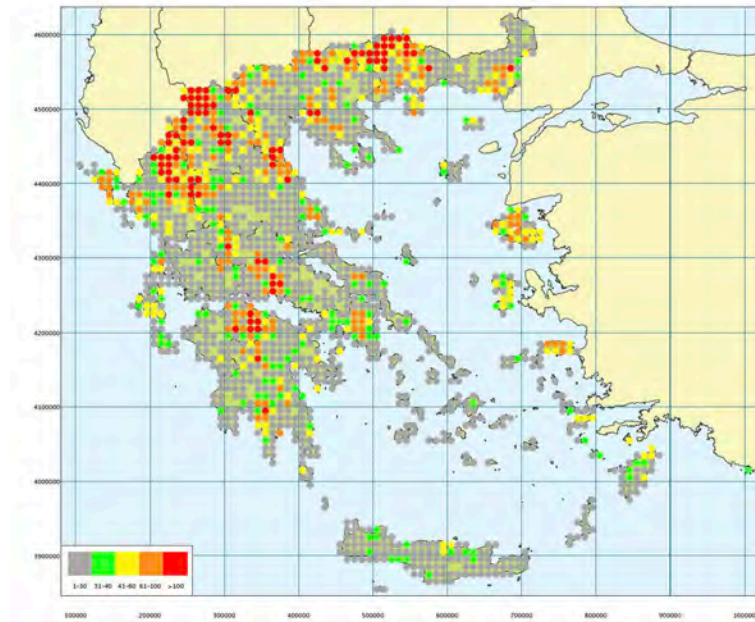


ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

Νέοι Χάρτες κατανομής των ειδών 3.3', Νέος Χάρτης 3.4', 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 Map 3.4', New Chart 4.15' and New Chart 4.16'

by Lazaros N. Pamperis

2025

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 1693 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται στους Χάρτες 4.3' η ΑΟΟ (Area Of Occurance, 2X2Km) σε Km². Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 522797 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2024 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2025) 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 4168 μέλη την 9 XI 2024) 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> και στο και το Zhang et al (2020) στο <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8018707/>

Οι αναφορές για την παρουσία των ειδών *Thaleropsis ionia* (Κατελλόριζο), *Deudorix livia* (Αττική) και *Hipparchia semele* (Πελοπόννησος και Ιωάννινα) δεν έχουν επιβεβαιωθεί έως σήμερα.

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/ 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 522797 records for the butterflies of Greece (till 31 XII 2024) for the 1693 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 Km².

This increase in records is made after personal investigations (from 2008-2025) 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 4168 members at 9 XI 2024) 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> and in Zhang et al (2020) in <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8018707/>

Reports on the presence of the species *Thaleropsis ionia* (Kastellorizo), *Deudorix livia* (Attiki) and *Hipparchia semele* (Peloponnisos and Ioannina) has not been confirmed to date.

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/ and in <https://www.pamperis.gr/recognition/index.html> for automatic recognition of butterflies.

Larissa 1 January 2025

Lazaros N. Pamperis

**SELECTED SITES FROM WHICH DATA FOR THE BUTTERFLIES OF GREECE WERE OBTAINED
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ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ**

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/

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

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/>

BUTTERFLIES of Crete <https://butterfliesofcrete.com>

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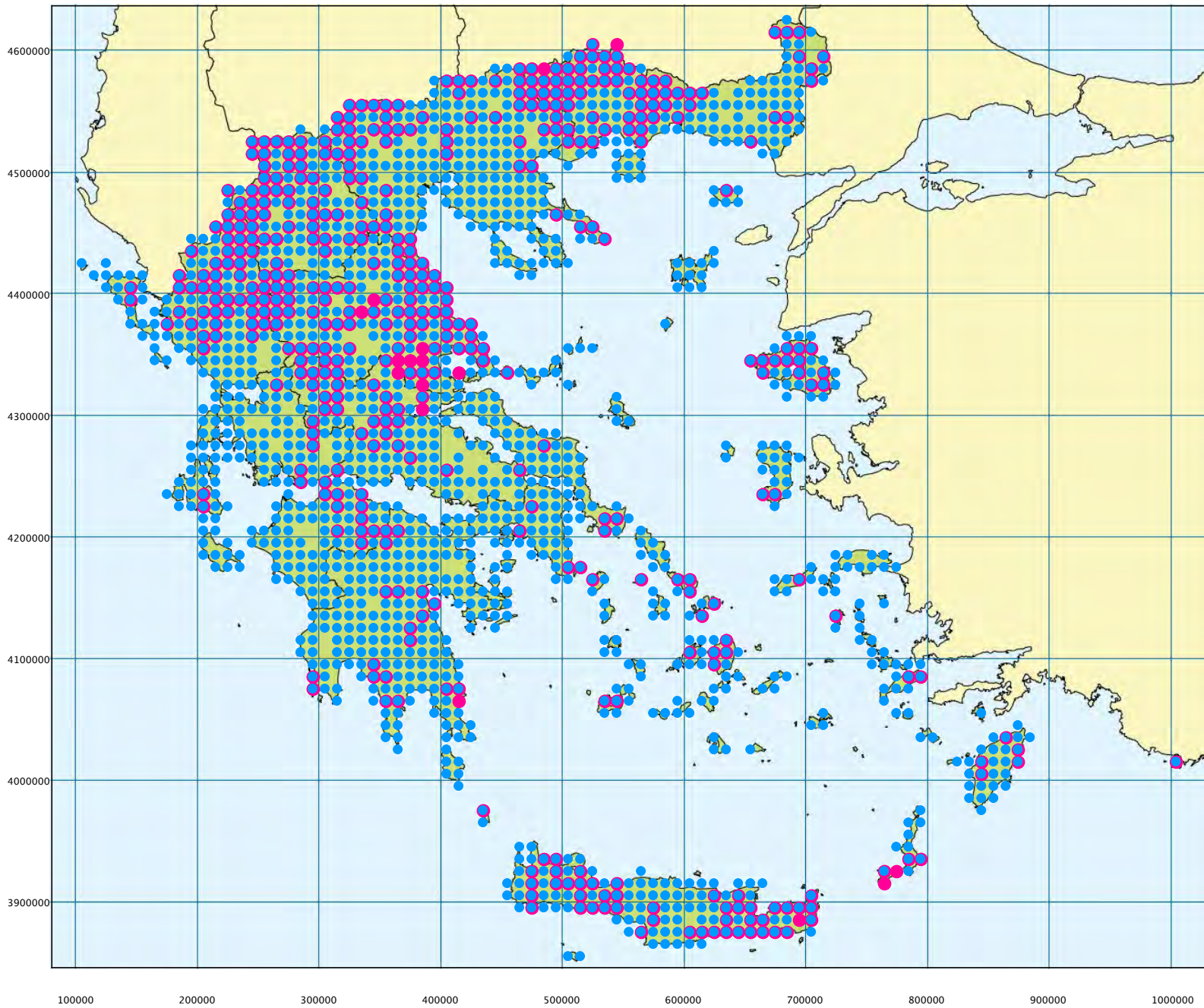
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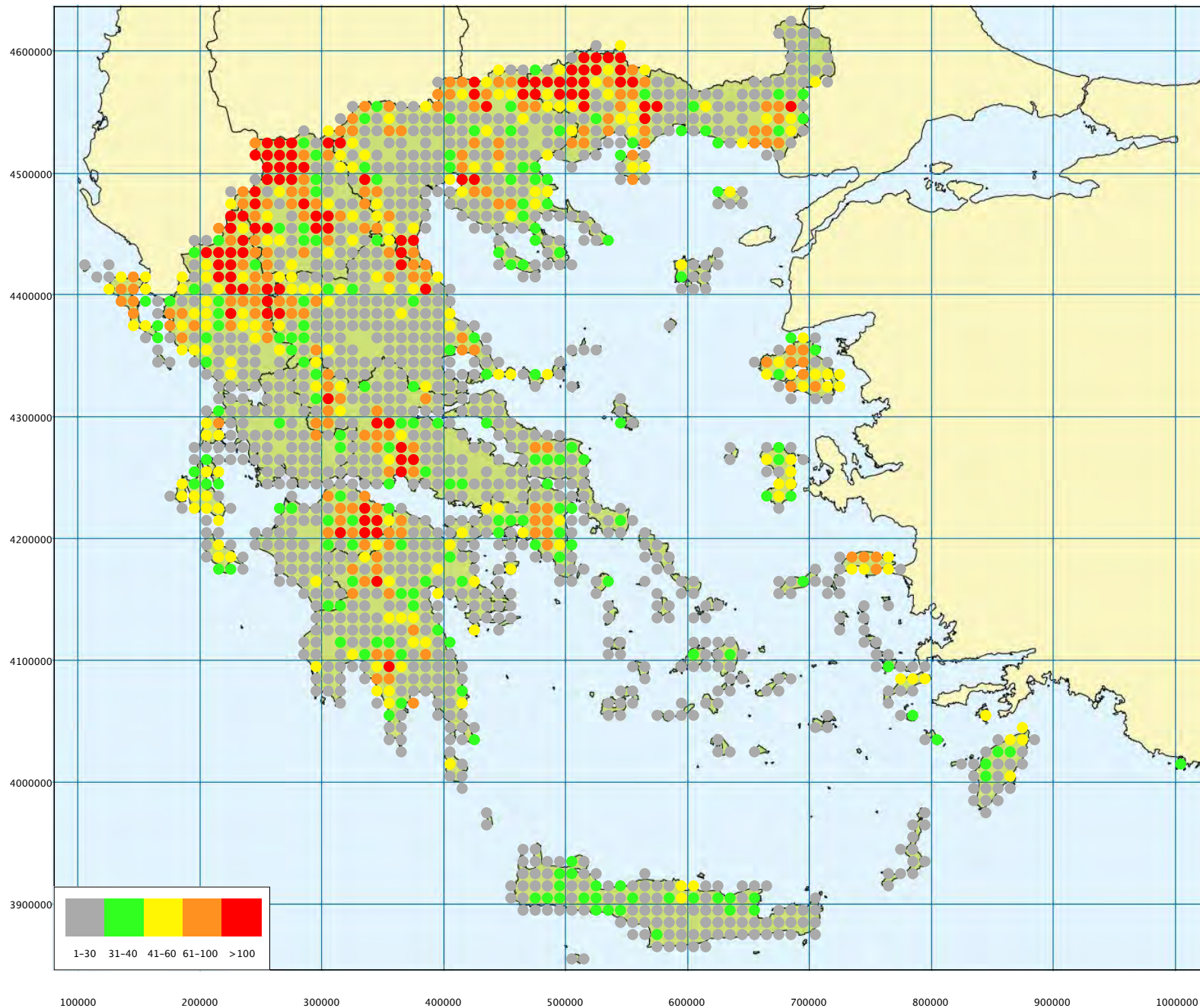
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BROWN JOHN
BURRETT PETER
BYGATE PETER
CARPENTER ALAN
CHAULIAC ANDRE
COBB CHRIS
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COURCY WILLIAMS MICHAEL
COWAN PAUL
CREPIN M.P
CUVELIER SYLVAIN
DAHL MAGNUS
DARCEMONT CHRISTIAN
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DOWDING JULIAN
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EDDIE JOHN
EDMUNDS HENRY. A
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FENN PATRICIA
FOLEY MICHAEL
FOWLES ANDRIAN P.
FOX KIM
FOX RITCHARD
FULLER MICHAEL
GATTI FRANCESCO
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GOETHALS VALERIE
GOOS WALTER
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GRIFFIN DAVE
GUILFOYLE A.
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HAPKA TAMAS
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HUNT PETER
JORDAN JAN
JUTZELER DAVID
KAPPES EVA
KAPPES WULF
KOLEV ZDRAVKO
LAFRANCHIS TRISTAN MAIER
MARIO
MAJER JINDRICH
MANDZIEJEWICZ R.
MANN JOHN
MASON STEPHEN A

MAUNDER MIKE
MAZZEI PAOLO
MEREDITH GUY
MOORE DAVID
MURPHEY CHRIS
MOLGAARD MORTEN S
NABBE MARINA
NORBERT ULMAN
OISTEIN BERG
PALMI PAOLO
PEACE NIGEL
PERKINS ROGER
PETTERSSON LARS
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PLOWMANE DAVE
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PRENTICE MIKE
PRINGLE GORDON
RAMEL GORDON
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REYNOLDS W.J
RODGERS PETER
ROWLINGS MATTHEW
RUSSELL PETER
RUTHERFORD JAN
SALMON JOHN
SAVAGE LYNDON
SCARLAU ASTRID
SCHAIDER PAUL
SEEPMA HERRE
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SIOUX LEFTY
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van HANS OOSTERHOUT
van SWAAY CHRIS
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WICKMAN PER-OLOF
WIRTH ALEXANDER
WRIGHT DAVE

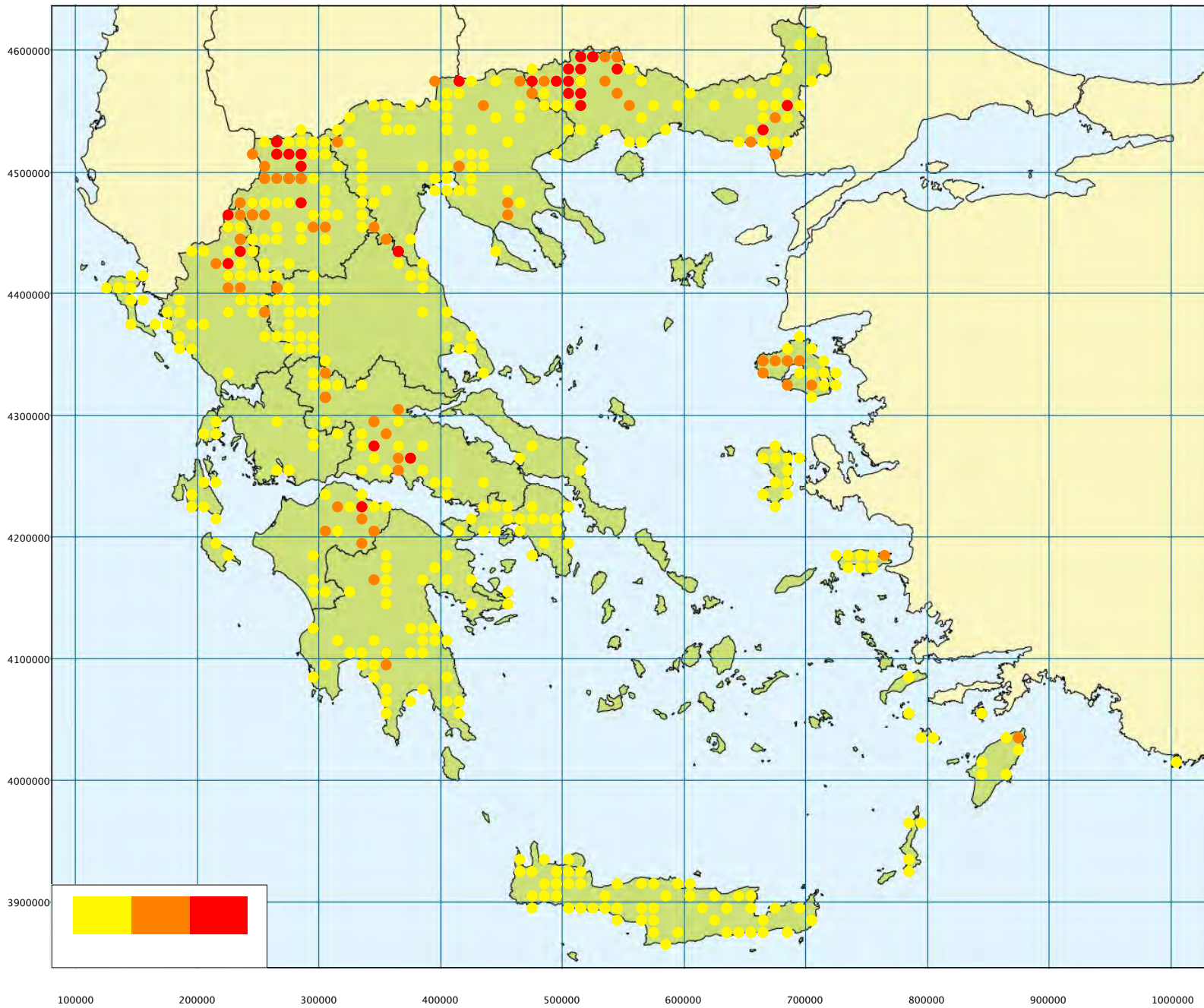
WYNNE IAN R
ZIEGLER HEINER



New Map 3.4'
(update 2025)
Investigated
localities
for all species
Νέος Χάρτης 3.4'
(επικαιροποίηση
2025)
Οι εξερευνηθείσες
τοποθεσίες για
όλα
τα είδη



New Chart 4.15'
 (update 2025 version in
 GGRS87)
 Total number of species for all
 1693 localities 10X10 km
 Νέος Χάρτης 4.15'
 (επικαιροποίηση 2025 με
 συντεταγμένες GGRS87)
 Συνολικός
 αριθμός των ειδών για όλες
 τις
 1693 τοποθεσίες 10X10 km



New Chart 4.16'
 (update 2025 version in GGRS87)
 Important butterfly areas in
 Greece
Νέος Χάρτης 4.16'
 (επικαιροποίηση 2025 με
 συντεταγμένες GGRS87)
 Σημαντικές περιοχές για τις
 πεταλούδες της Ελλάδας

Comments on the species distribution maps that follow Σχόλια για τους χάρτες εξάπλωσης των ειδών που ακολουθούν

1. Endemic species/ Ενδημικά Είδη
 - *Zerynthia cretica*
 - *Kretania psylorita*
 - *Maniola chia*
 - *Hipparchia cretica*
 - *Coenonympha thyrasis*
 - *Hipparchia christenseni*
 - *Polyommatus timfristos*

2. Identification uncertain / Αμφίβολη αναγνώριση
 - *Pieris napi*
 - *Pieris balcana*
 - *Colia erate*
 - *Leptidea sinapis*
 - *Leptidea juvernica*
 - *Melitaea athalia*
 - *Melitaea aurelia*
 - *Hipparchia senthes*
 - *Hipparchia volgensis*
 - *Pyrgus alveus*
 - *Pyrgus armoricanus*
 - *Muschampia orientalis*
 - *Muschampia floccifera*

3. Species reported only once / είδη που αναφέρθηκαν μόνον μια φορά.
 - *Thaleropsis ionia*
 - *Deudorix livia*
 - *Hipparchia semele*

4. *Polyommatus ripartii*
 - 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>, 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.

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.

5. *Polyommatus aroaniensis*

- It was published recently [by Parmentier L, Vila R, Lukhtanov V (2022) Integrative analysis reveals cryptic speciation linked to habitat differentiation within Albanian populations of the anomalous blues (Lepidoptera, Lycaenidae, *Polyommatus* Latreille, 1804). *Comparative Cytogenetics* 16(4): 211-242. <https://doi.org/10.3897/ CompCytogen.v16.i4.90558>] that a new cryptic species *Polyommatus lurae* was found in Albania, very similar (in external characters) to *P. orphicus eleniae* and *P. aroaniensis*. All records of *P. aroaniensis*, in this map, should be revised because of the possibility that new cryptic species is hidden.
- Δημοσιεύθηκε πρόσφατα [στο Parmentier L, Vila R, Lukhtanov V (2022) Integrative analysis reveals crypticspeciation linked to habitat differentiation within Albanian populations of the anomalous blues (Lepidoptera, Lycaenidae, *Polyommatus* Latreille, 1804). *Comparative Cytogenetics* 16(4): 211-242. <https://doi.org/10.3897/ CompCytogen.v16.i4.90558>] ότι ένα νέο είδος το *Polyommatus lurae* βρέθηκε στην Αλβανία, το οποίο είναι πάρα πολύ όμοιο με τα *P. orphicus eleniae* και *P. aroaniensis*. Όλες οι καταγραφές του *P. aroaniensis*, σε αυτόν τον χάρτη πρέπει να επανεξεταστούν επειδή υπάρχει η πιθανότητα να υπάρχουν κρυπτικά είδη.

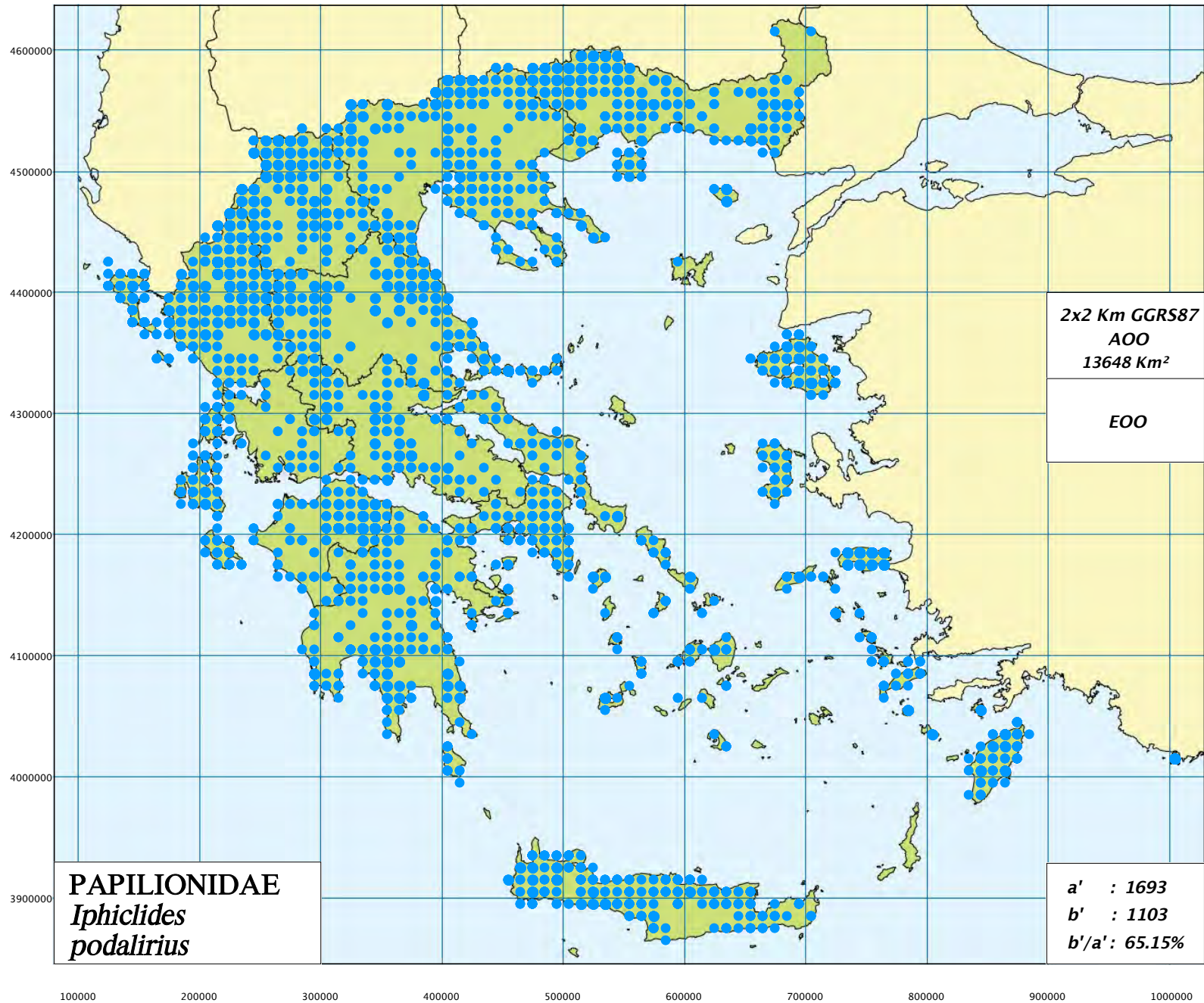
6. *Polyommatus orphicus*

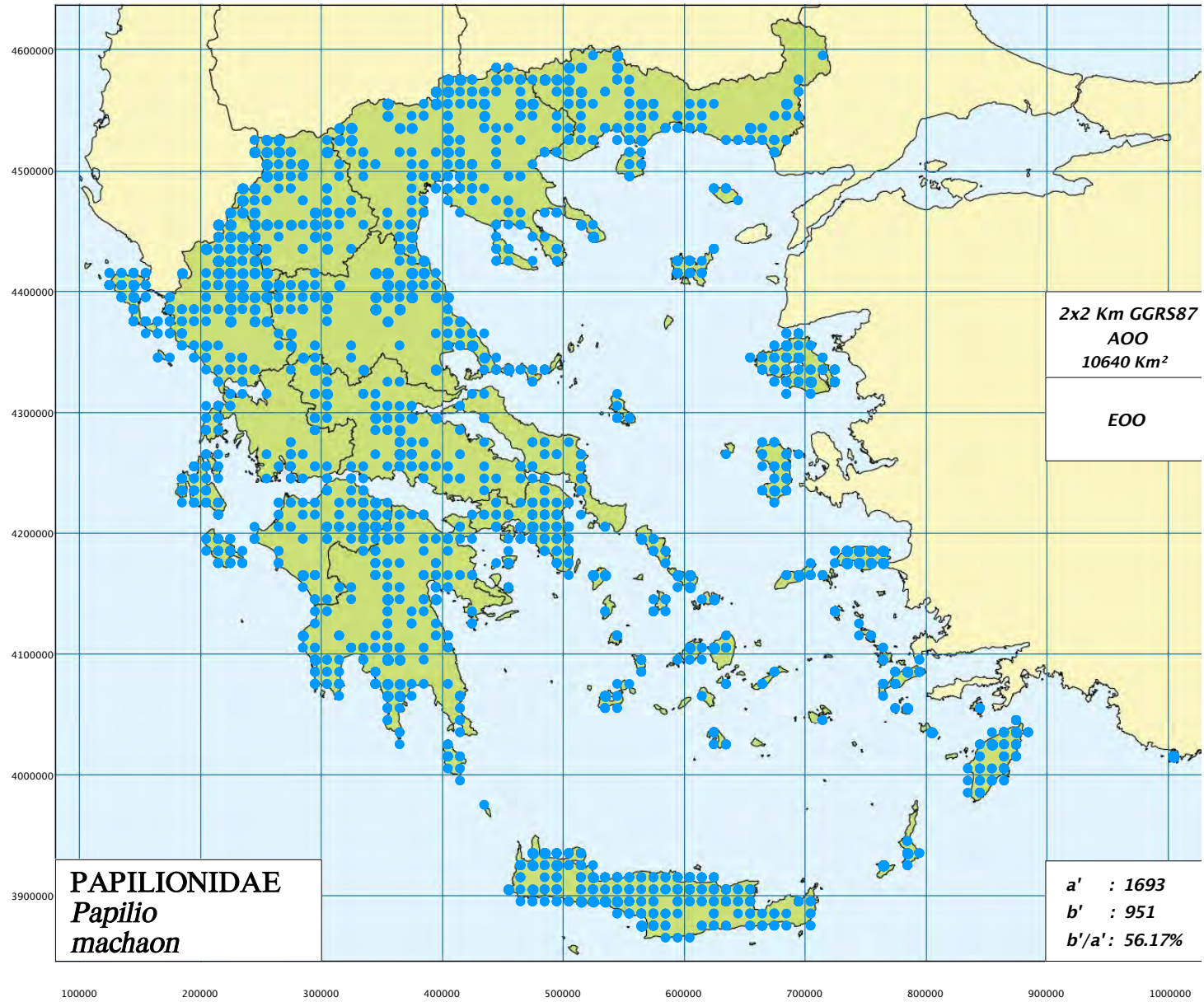
- *Polyommatus orphicus eleniae*, a new subspecies as suggested by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): *Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics* 10(5): 1- 85. <https://doi.org/10.3897/ CompCytogen.v10i5.10944>. Very similar to *P. aroaniensis*; see photos of *P. eleniae* in pages 296–297 of the book *the Butterflies of Greece* (2009).
- *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>. Μεγάλη ομοιότητα με το *P. aroaniensis*. Δείτε για φωτογραφίες του *P. eleniae*, στις σελίδες 296–297 του βιβλίου *Οι Πεταλούδες της Ελλάδας* (2009).

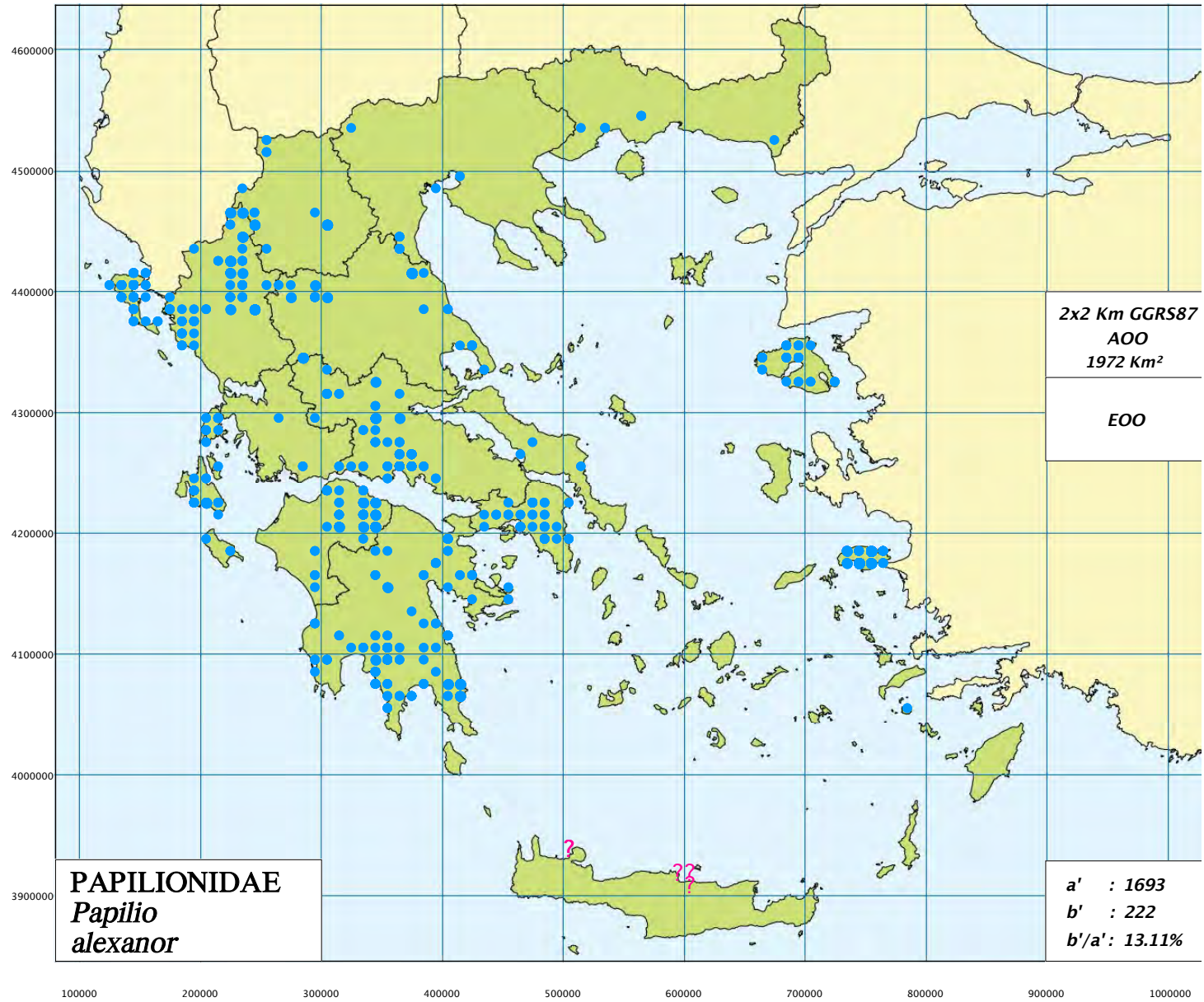
7. See more details for several species in the next page or in / Δες περισσότερες λεπτομέρειες για τα είδη στην επόμενη σελίδα ή στο

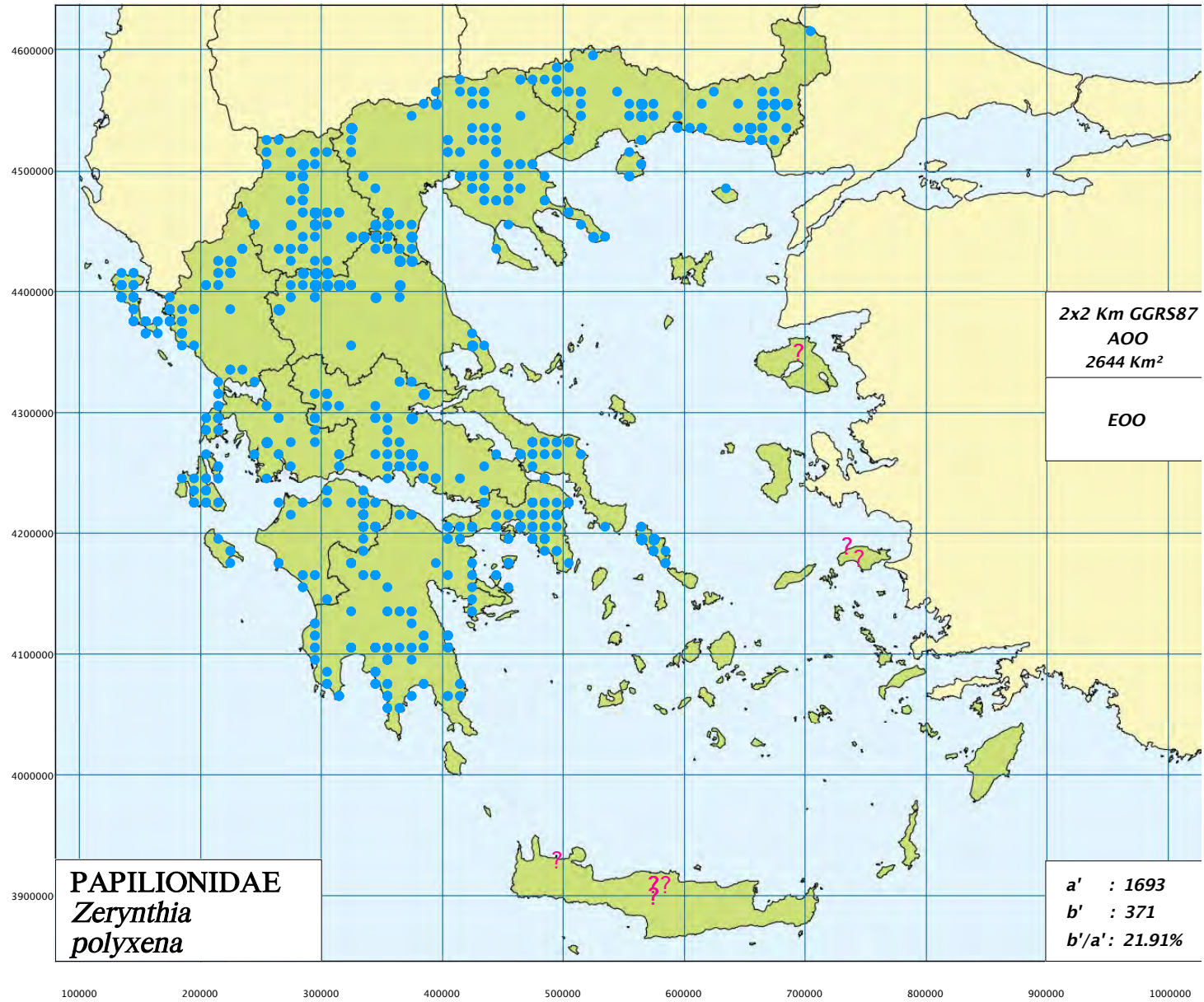
<https://pamperis.gr/butterflies-of-greece/>

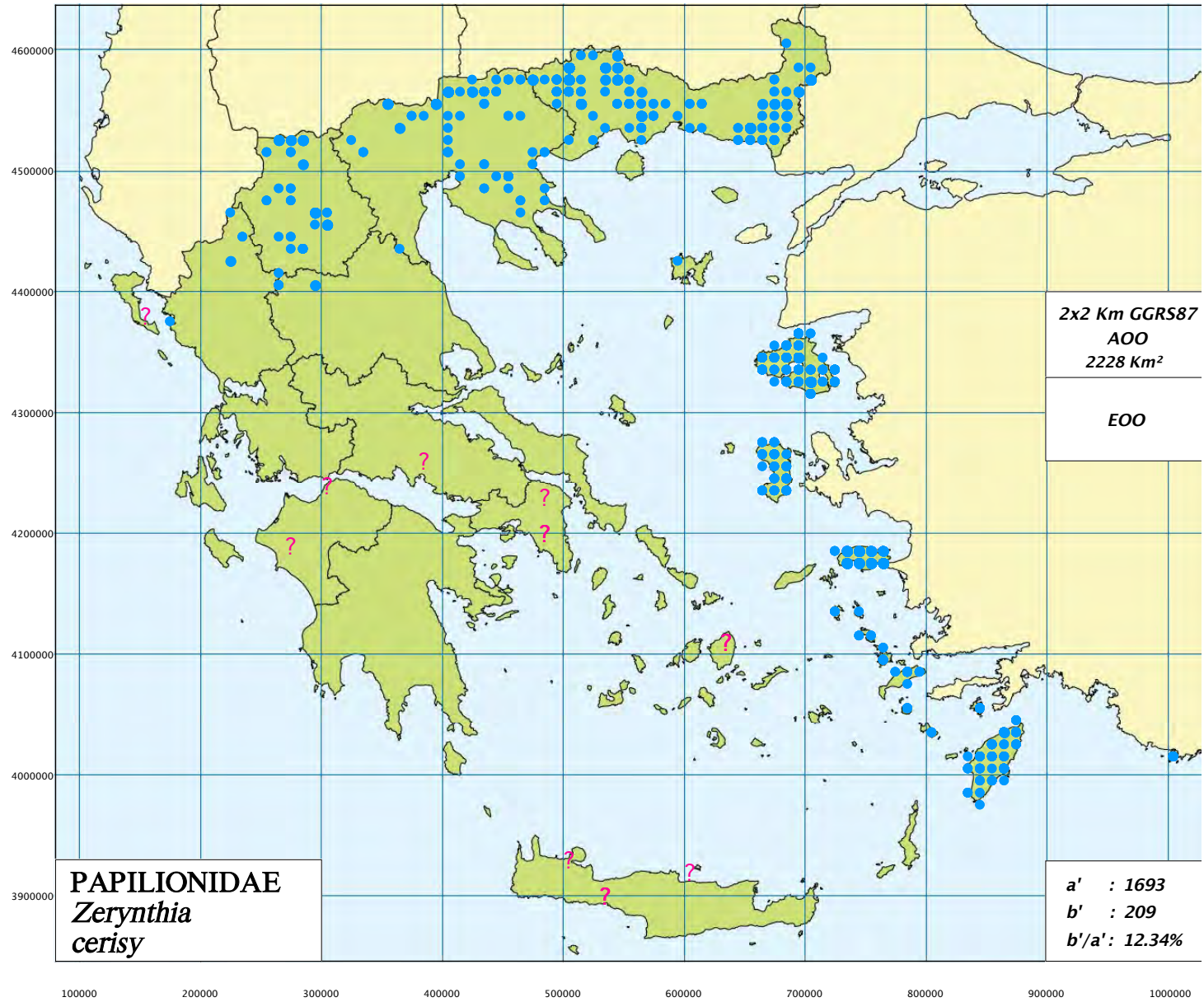
<i>Pieris napi/balcana</i> complex	<i>Thymelicus sylvestris, Thymelicus hyrax,</i>
<i>Colias crocea/erate</i> complex	<i>Thymelicus lineola, Thymelicus acteon</i>
<i>Lepidea sinapis/juvernica</i> complex	<i>Melitaea didyma, Melitaea trivia</i>
<i>Plebejus argus/idas/argyrognomon</i> complex	<i>Hipparchia fatua, Hipparchia statilinus</i>
<i>Polyommatus ripartii/timfristus</i> complex	<i>Hyponephele lupina, Hyponephele lycaon</i>
<i>Melitaea athalia/aurelia</i> complex	<i>Lasiommata maera, Lasiommata megera,</i>
<i>Hipparchia fagi/syriaca</i> complex	<i>Lasiommata petropolitana</i>
<i>Hipparchia</i>	<i>Melitaea phoebe, Melitaea ornata</i>
<i>synthes/volgensis/cretica/christenseni/mersina</i> complex	<i>Polyommatus escheri, Polyommatus</i> <i>thersites</i>
<i>Pseudochazara anthelea/amalthea</i> complex	<i>Polyommatus icarus, Polyommatus eros</i>
<i>Maniola telmessia/chia/hallicarnassus</i> complex	<i>Aricia agestis, Aricia artaxerxes, Aricia</i> <i>anteros</i>
<i>Gegenes pumilio/nostrodamus</i> complex	<i>Lysandra coridon, Lysandra bellargus</i>
<i>Pyrgus armoricanus/alveus</i> complex	<i>Gonepteryx</i>
<i>Muschampia alta/proteides</i> complex	<i>Pyrgus</i>
<i>Muschampia orientalis/floccifera</i> complex	<i>Carcharodus</i> <i>Muschampia</i> <i>Lycaena</i> <i>Pseudochazara</i> <i>Colias alfacariensis, Colias crocea</i> <i>Erebia neleus, Erebia ottomana</i>

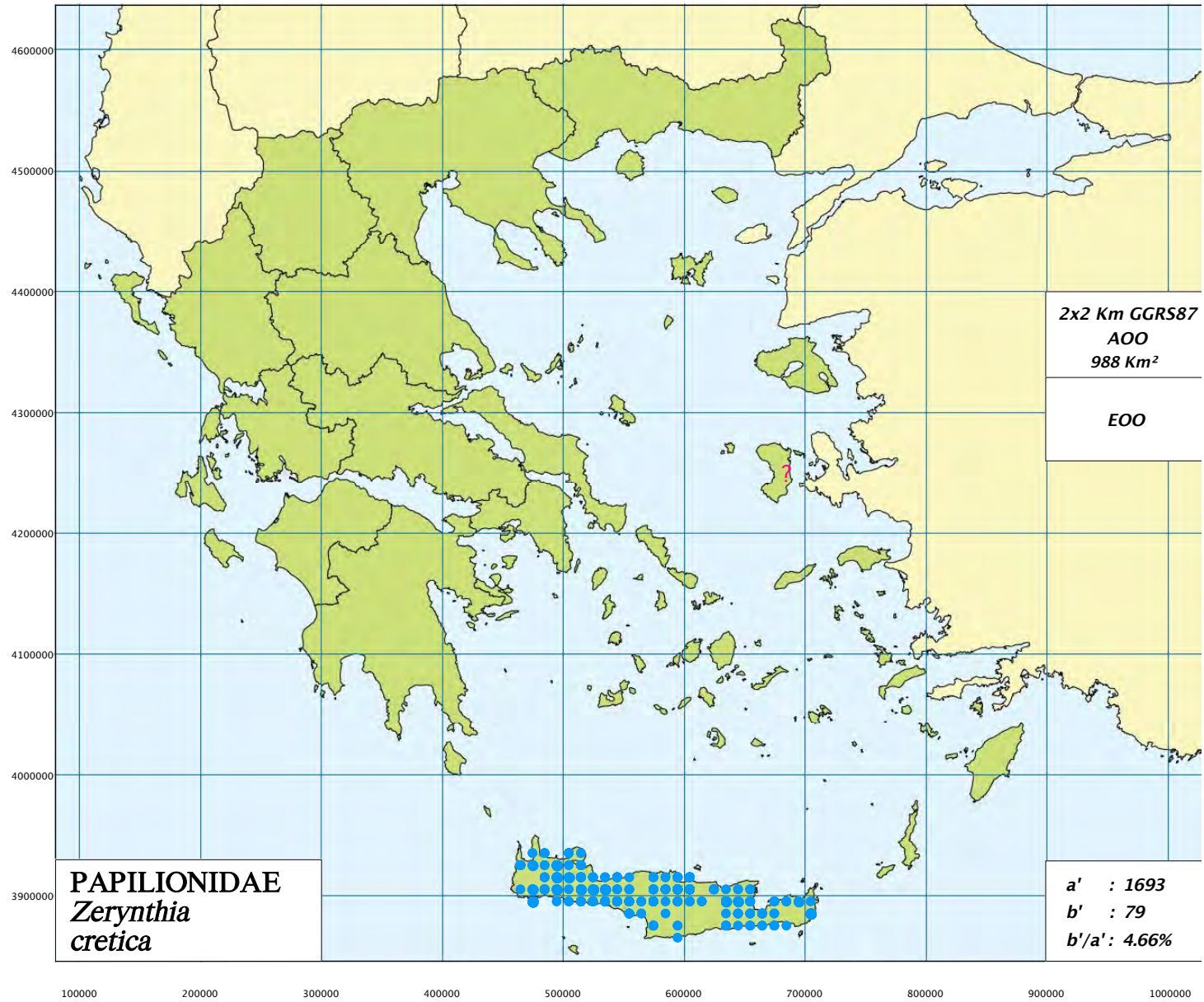


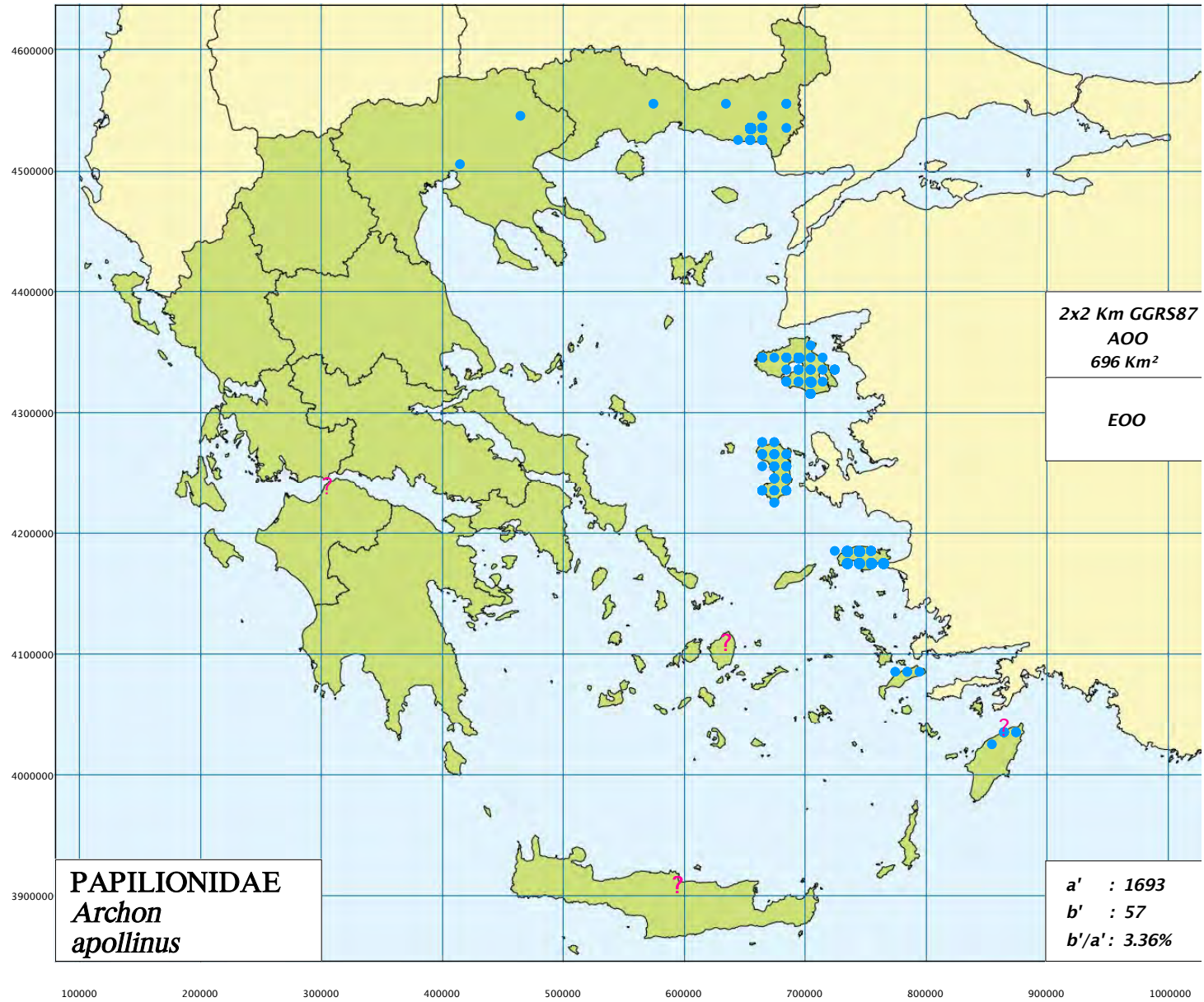


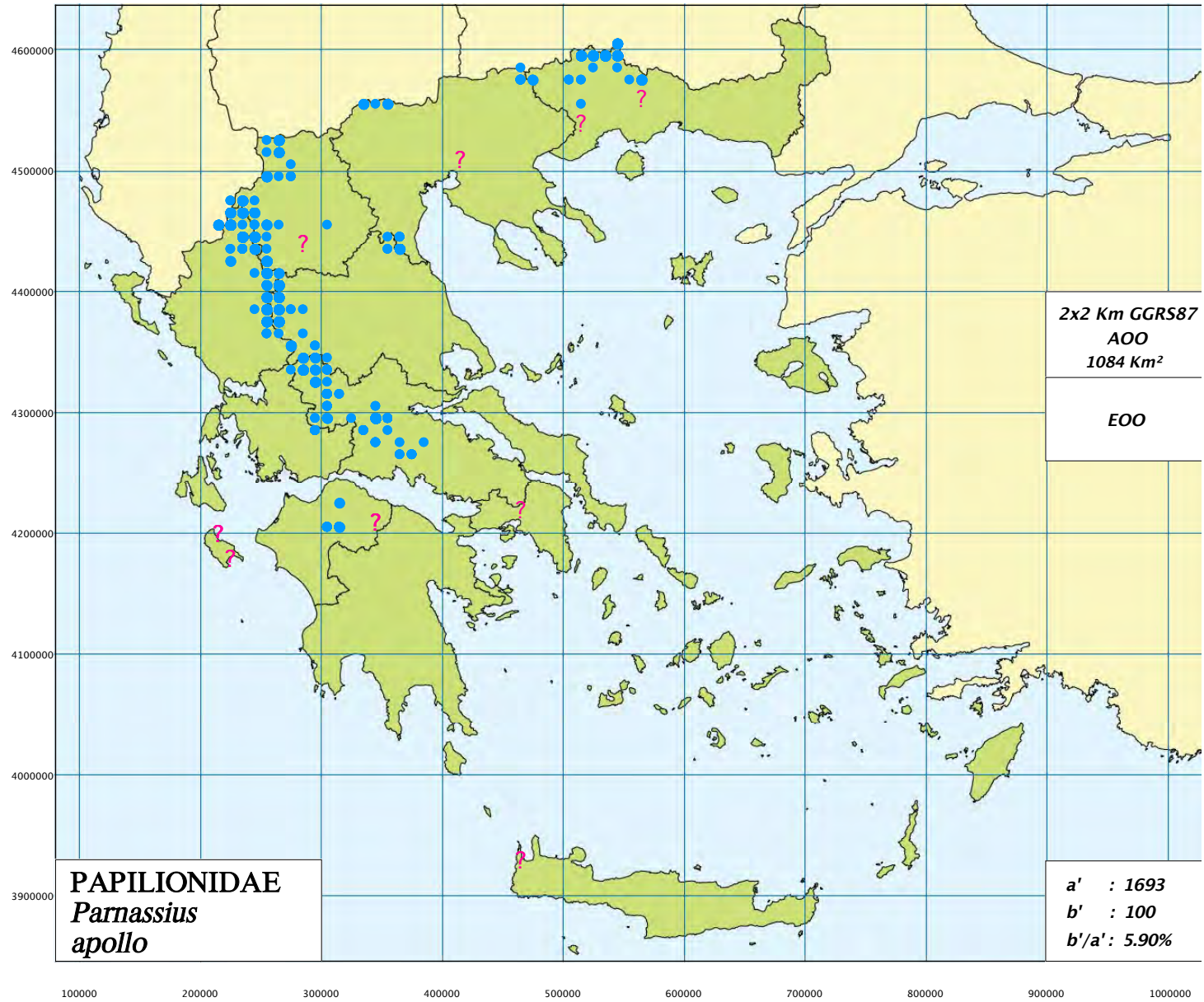


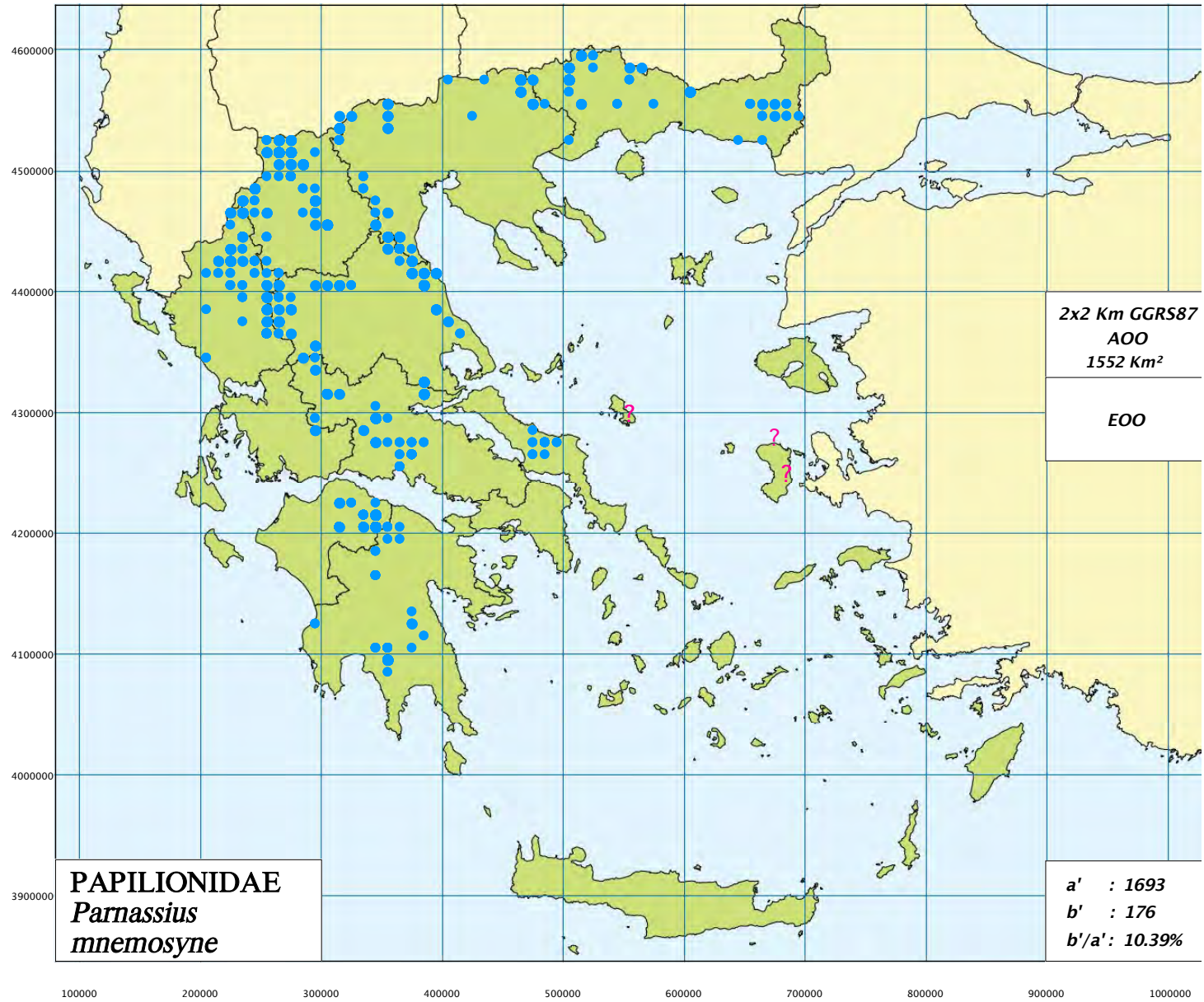


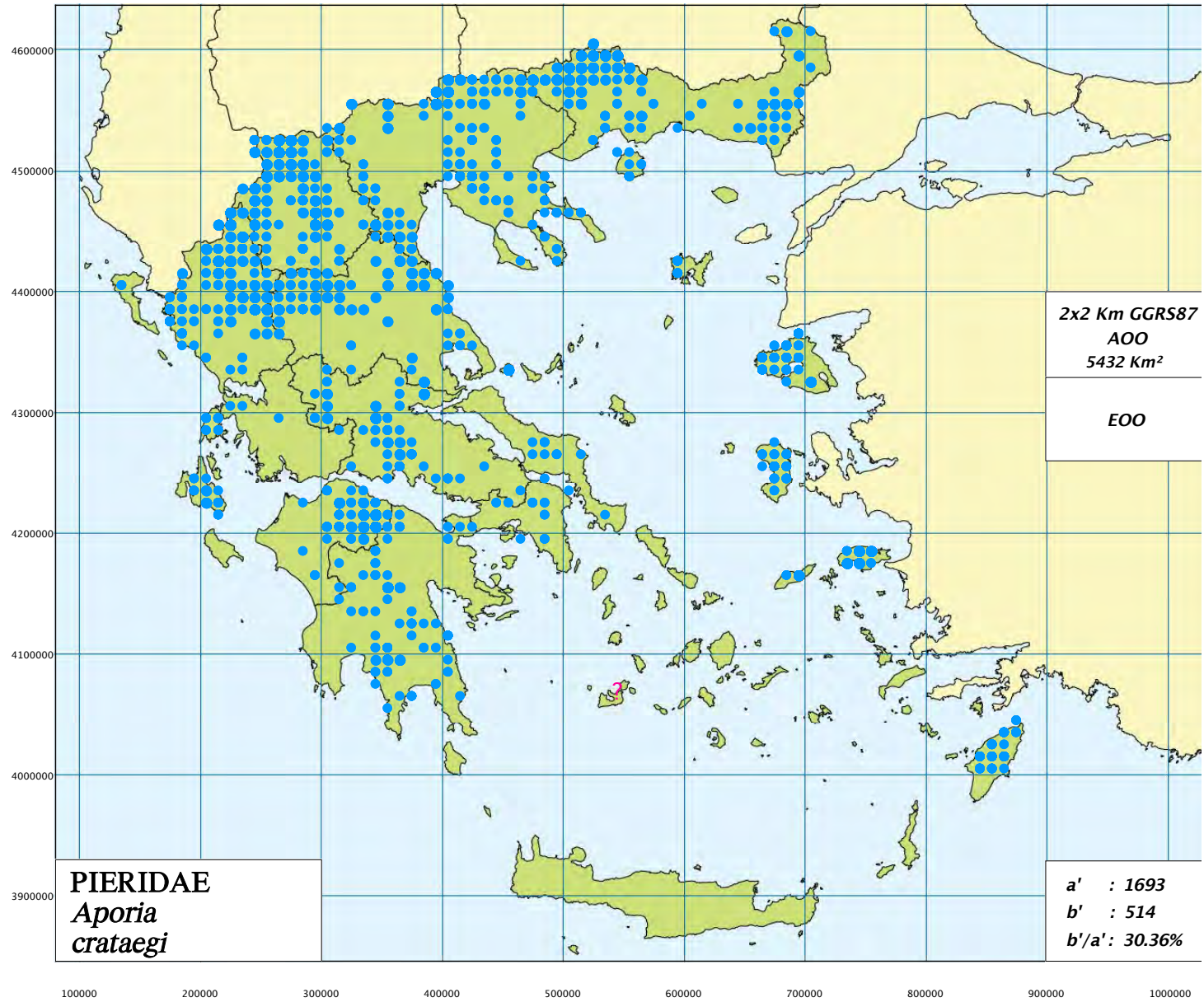


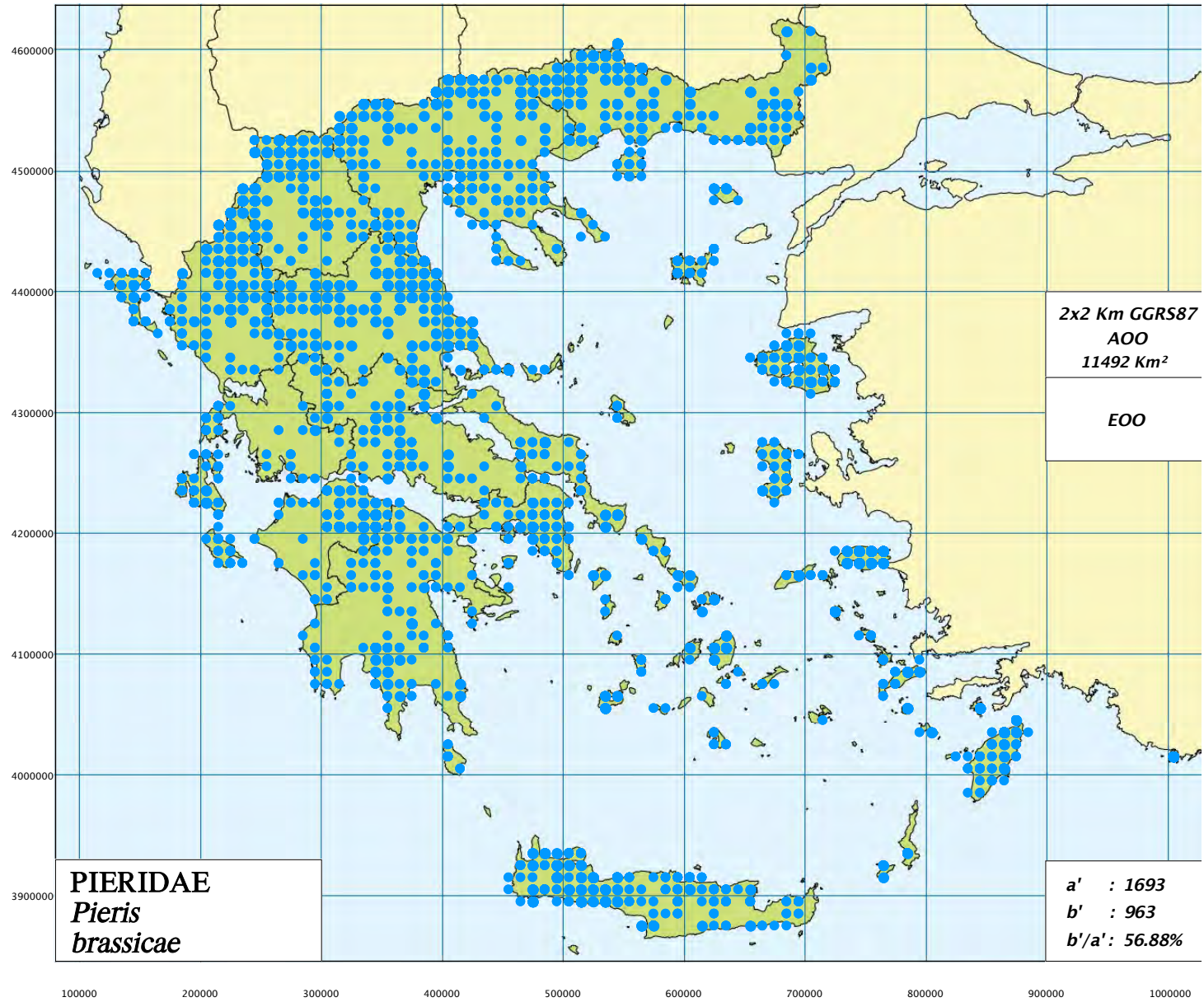


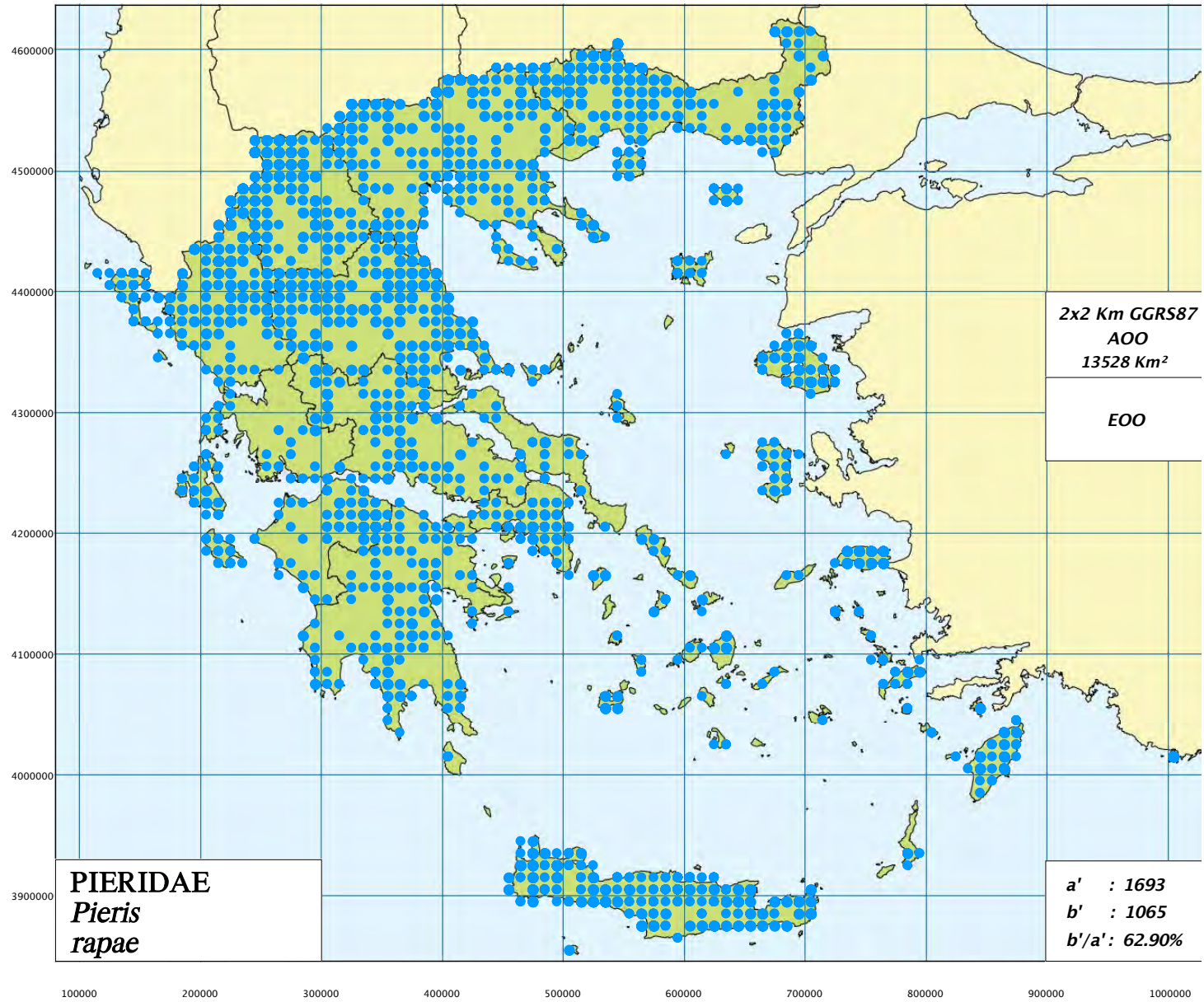


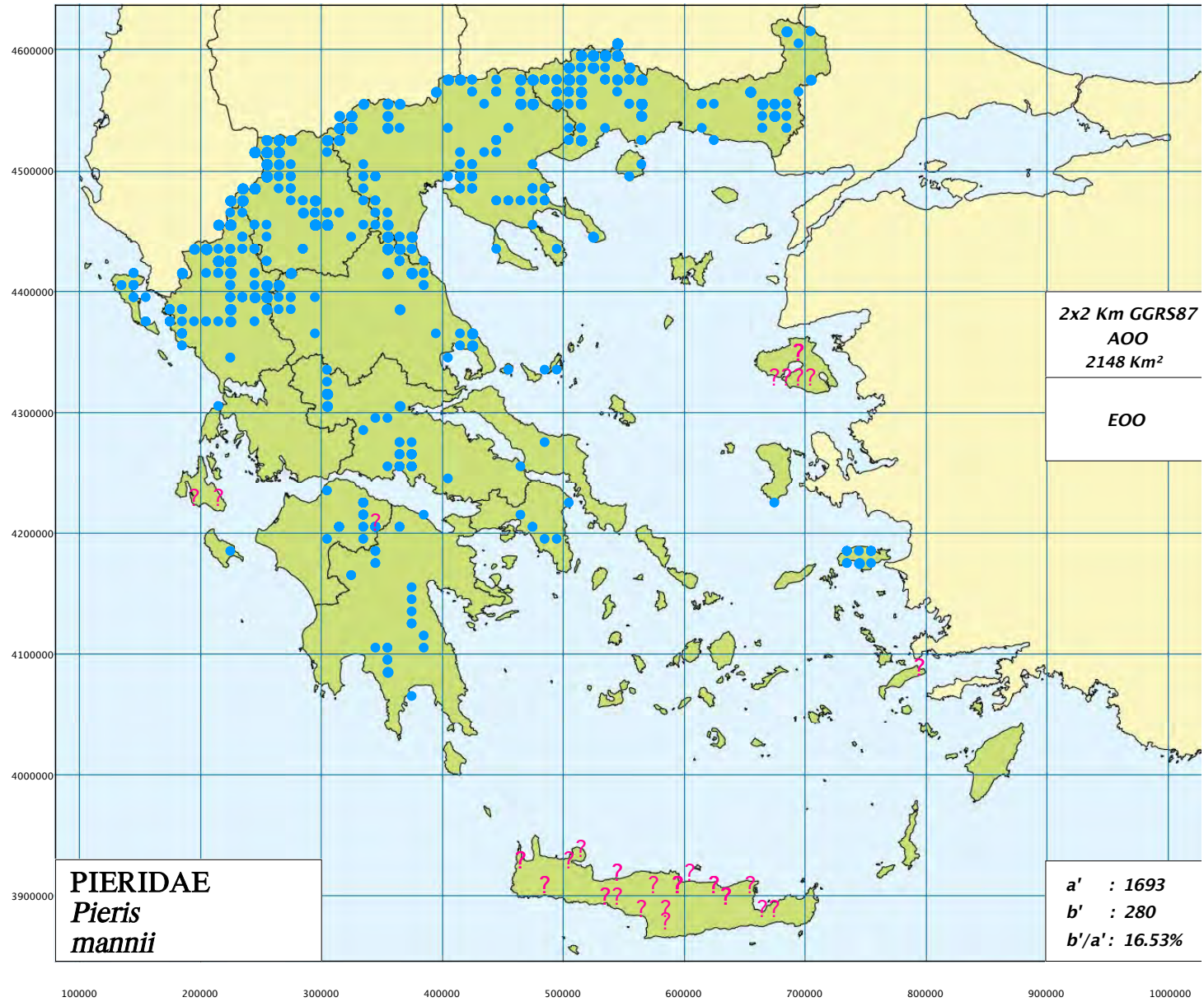


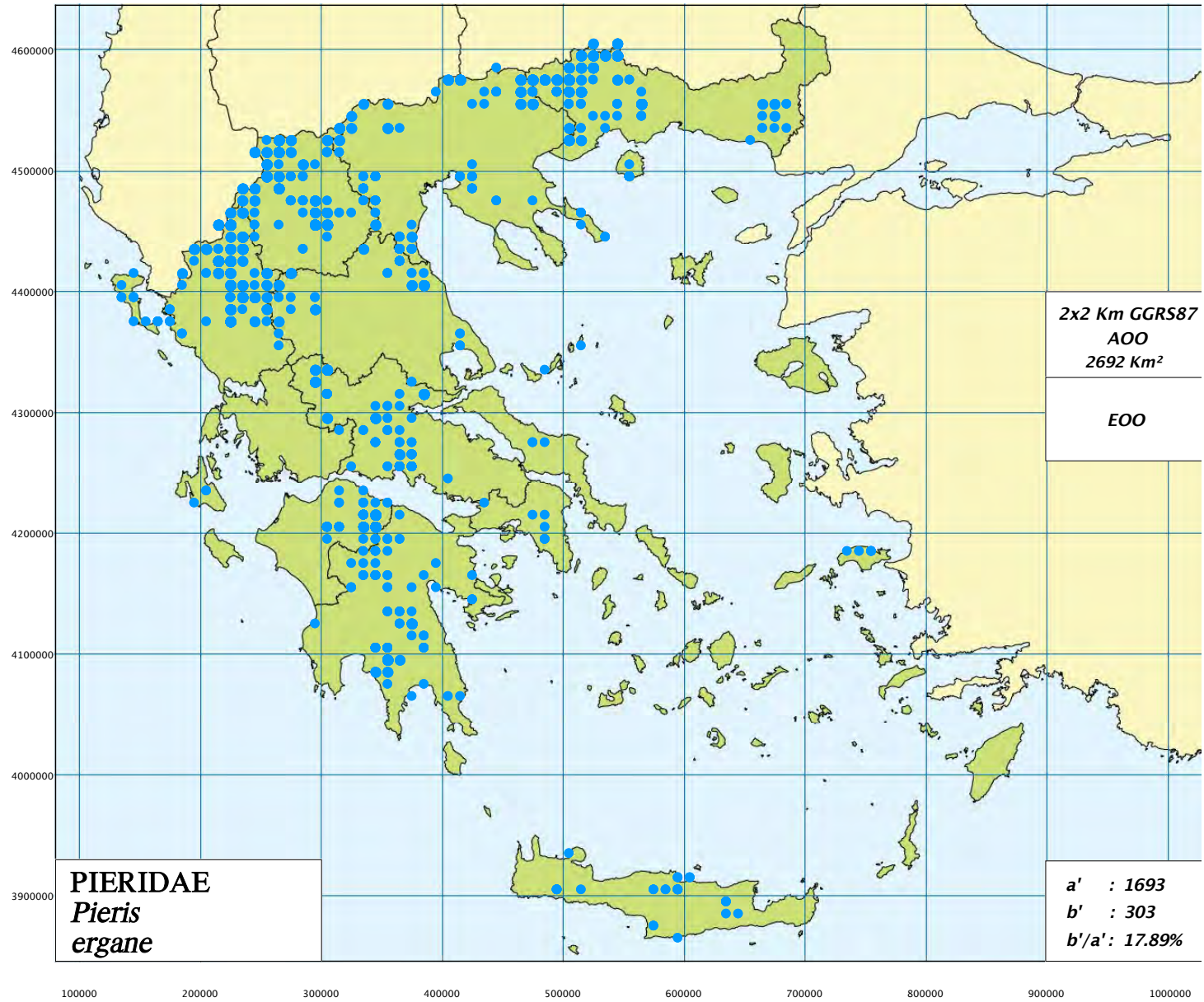


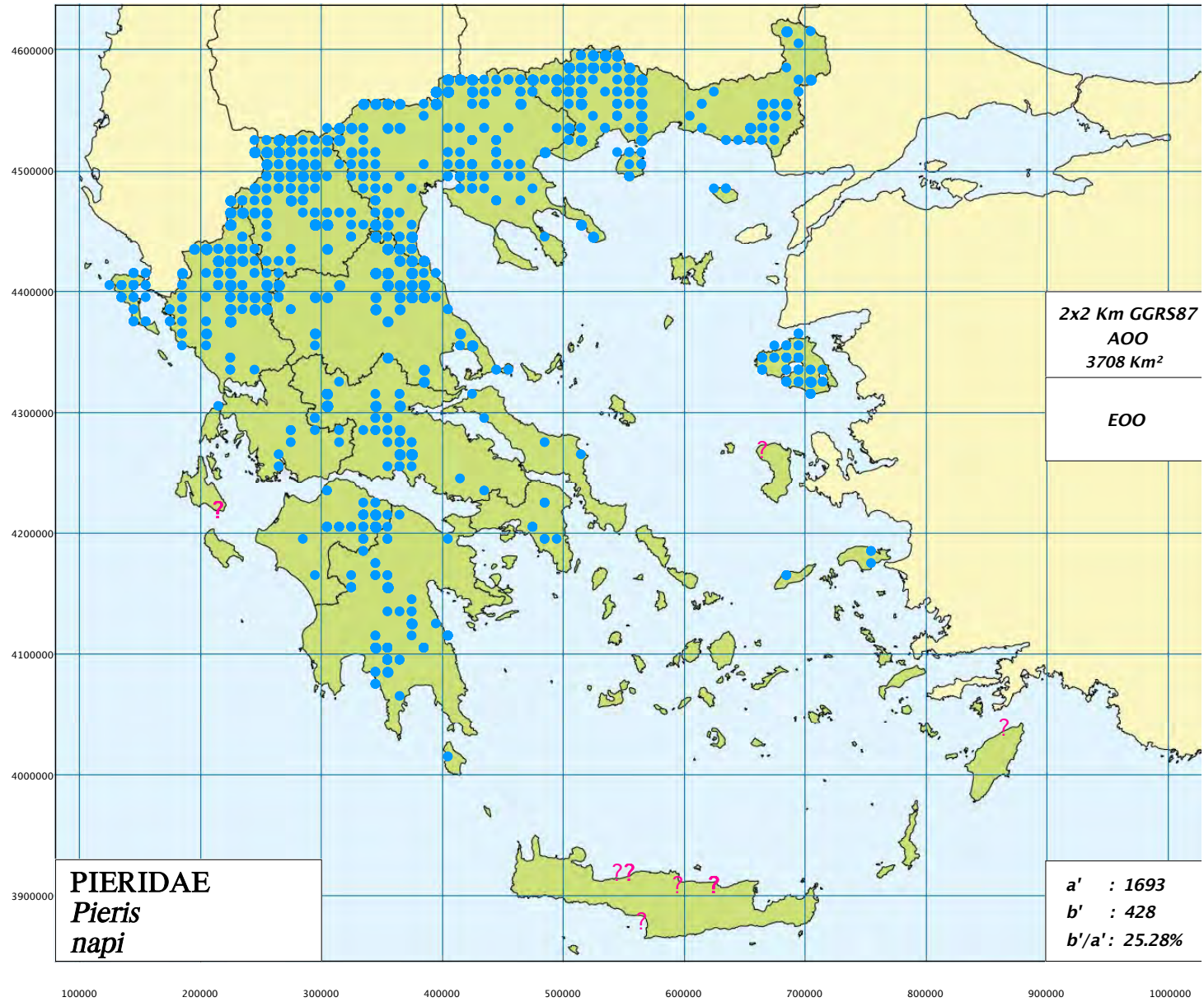


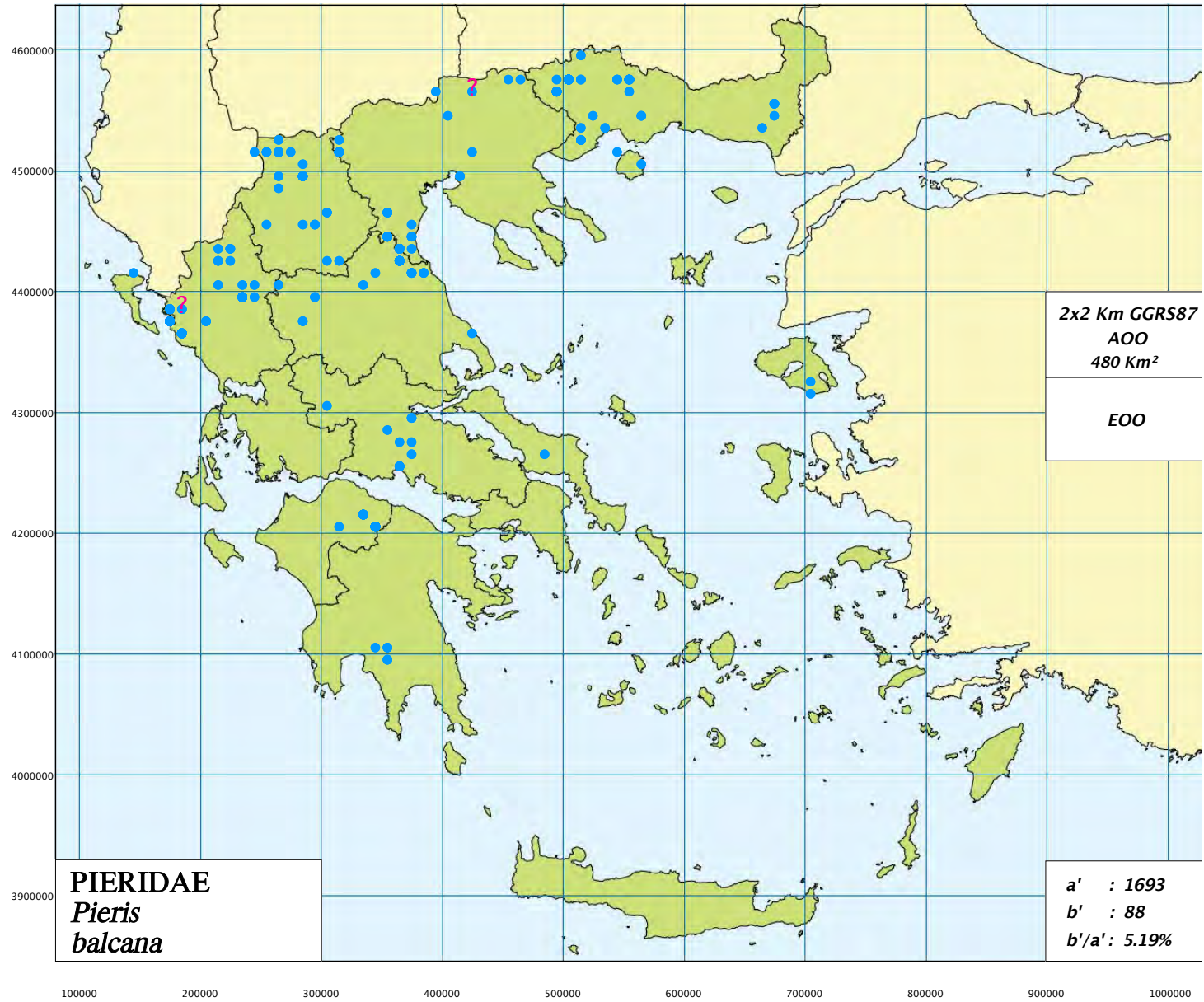


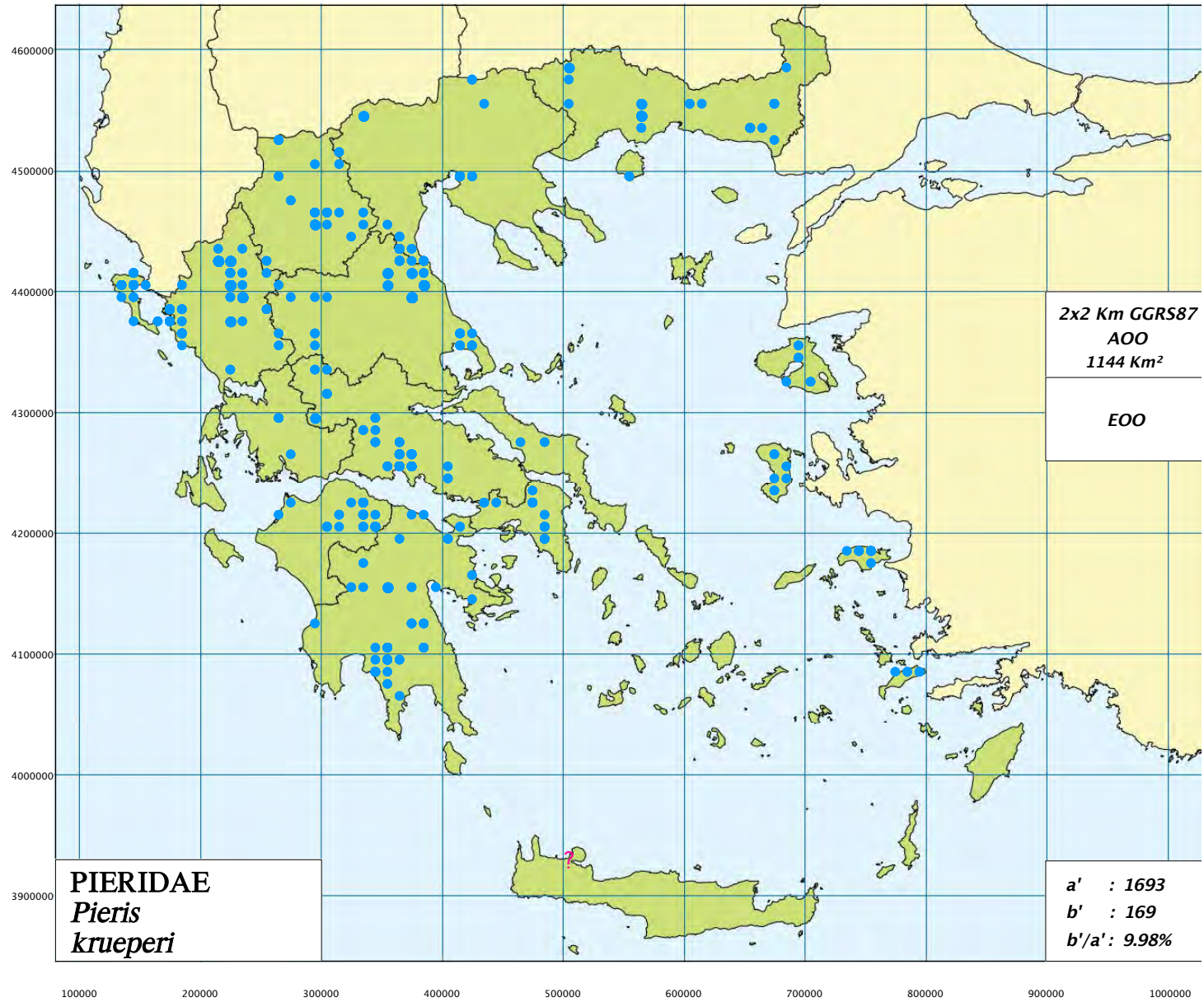


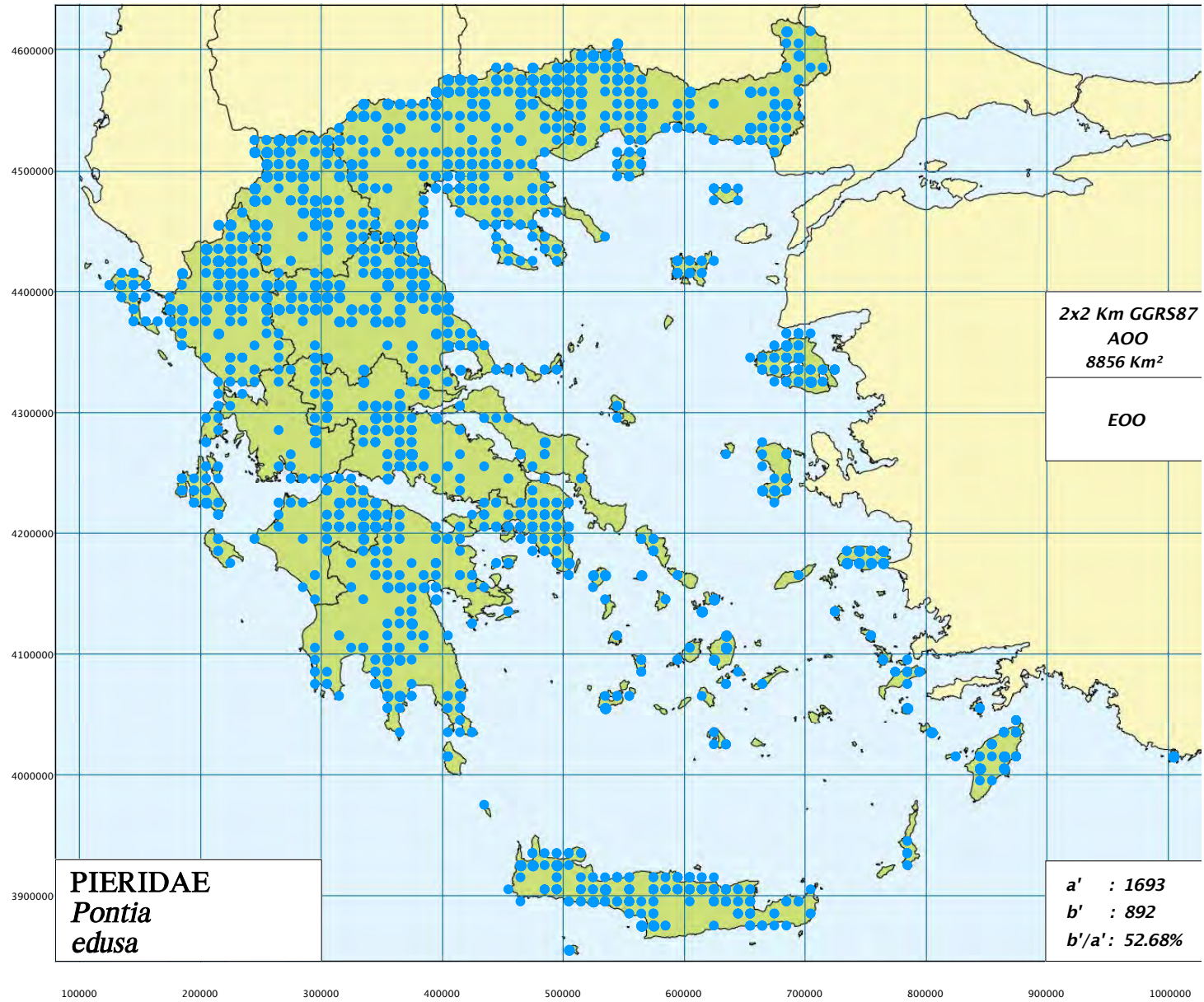


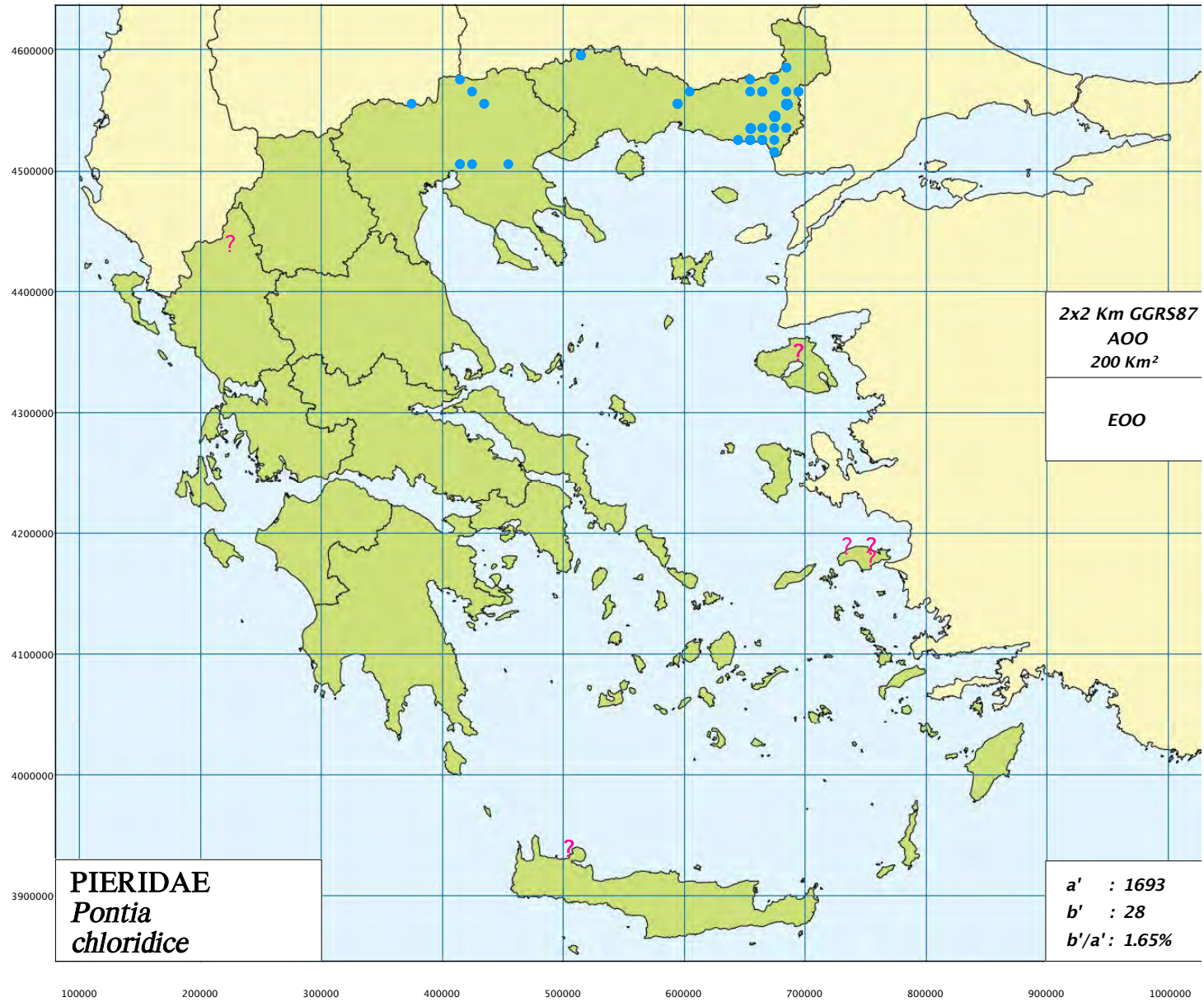


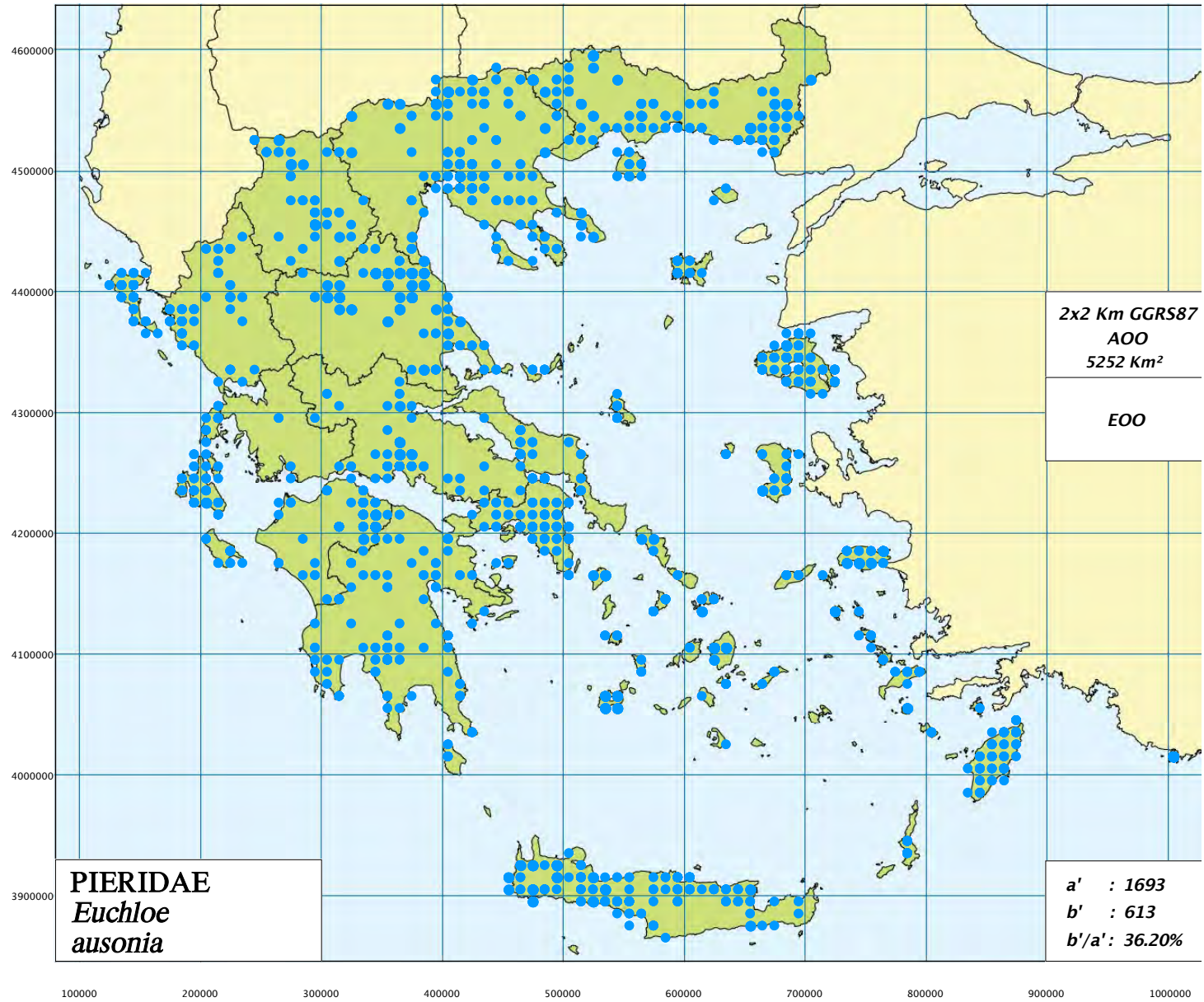




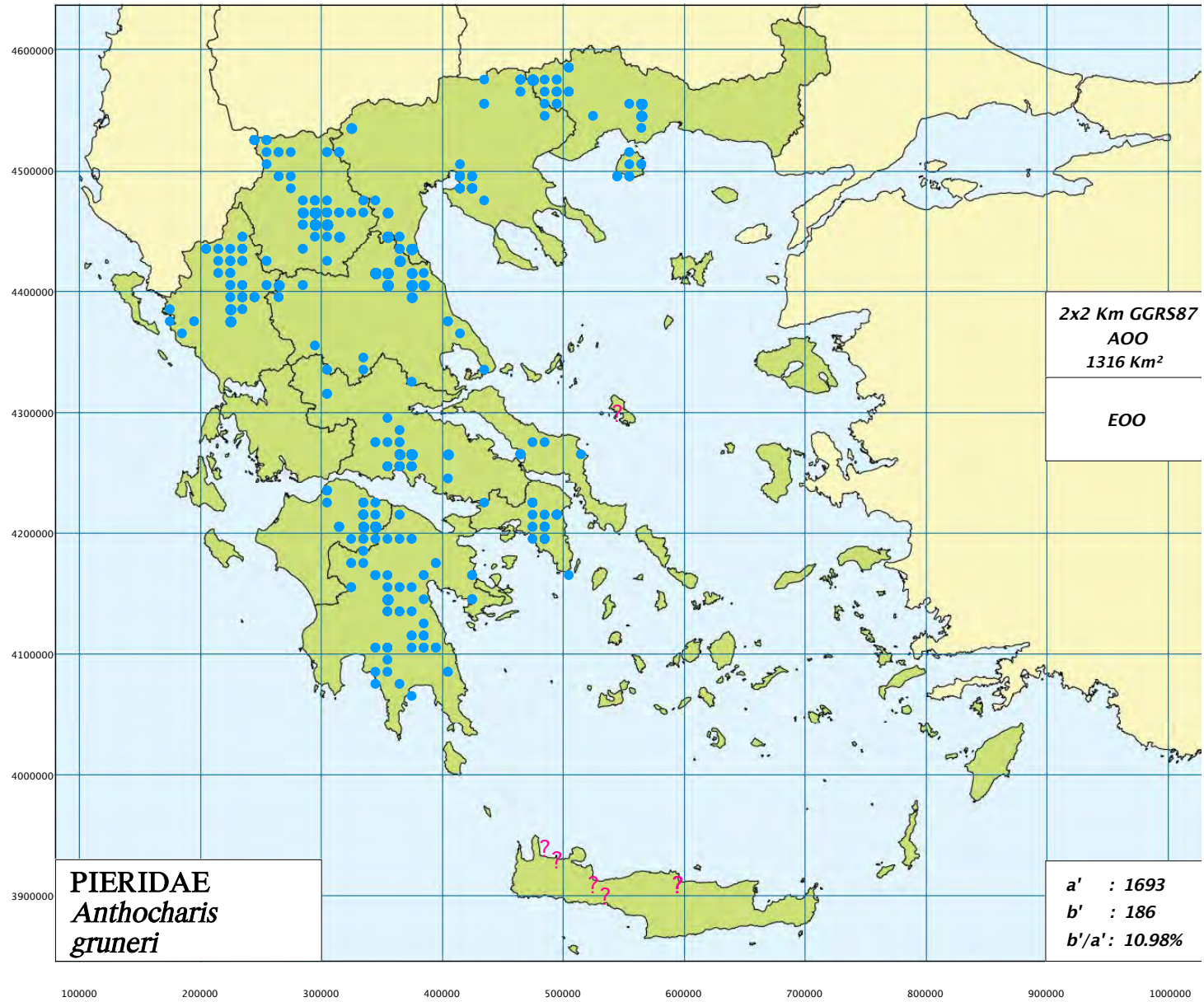


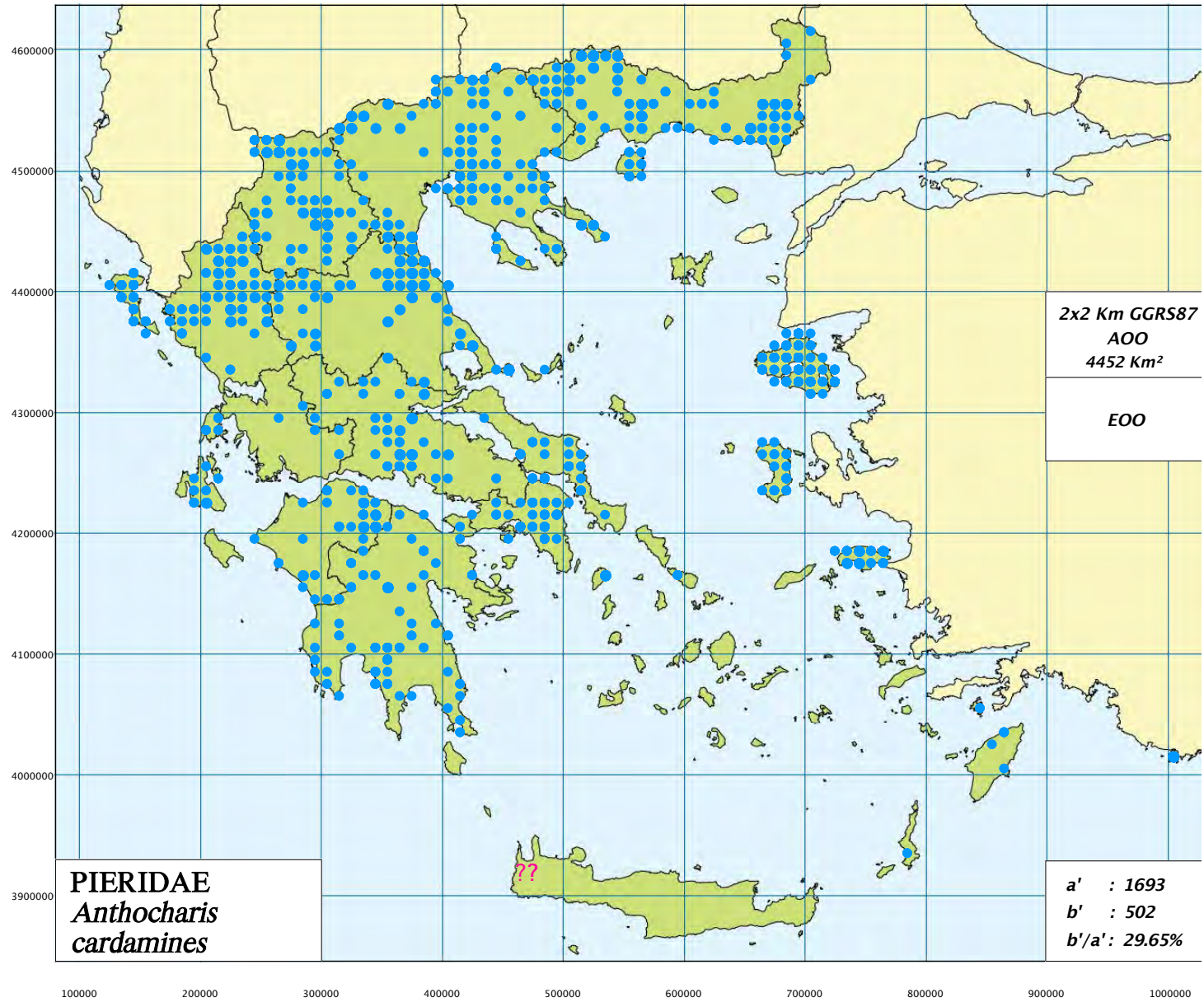




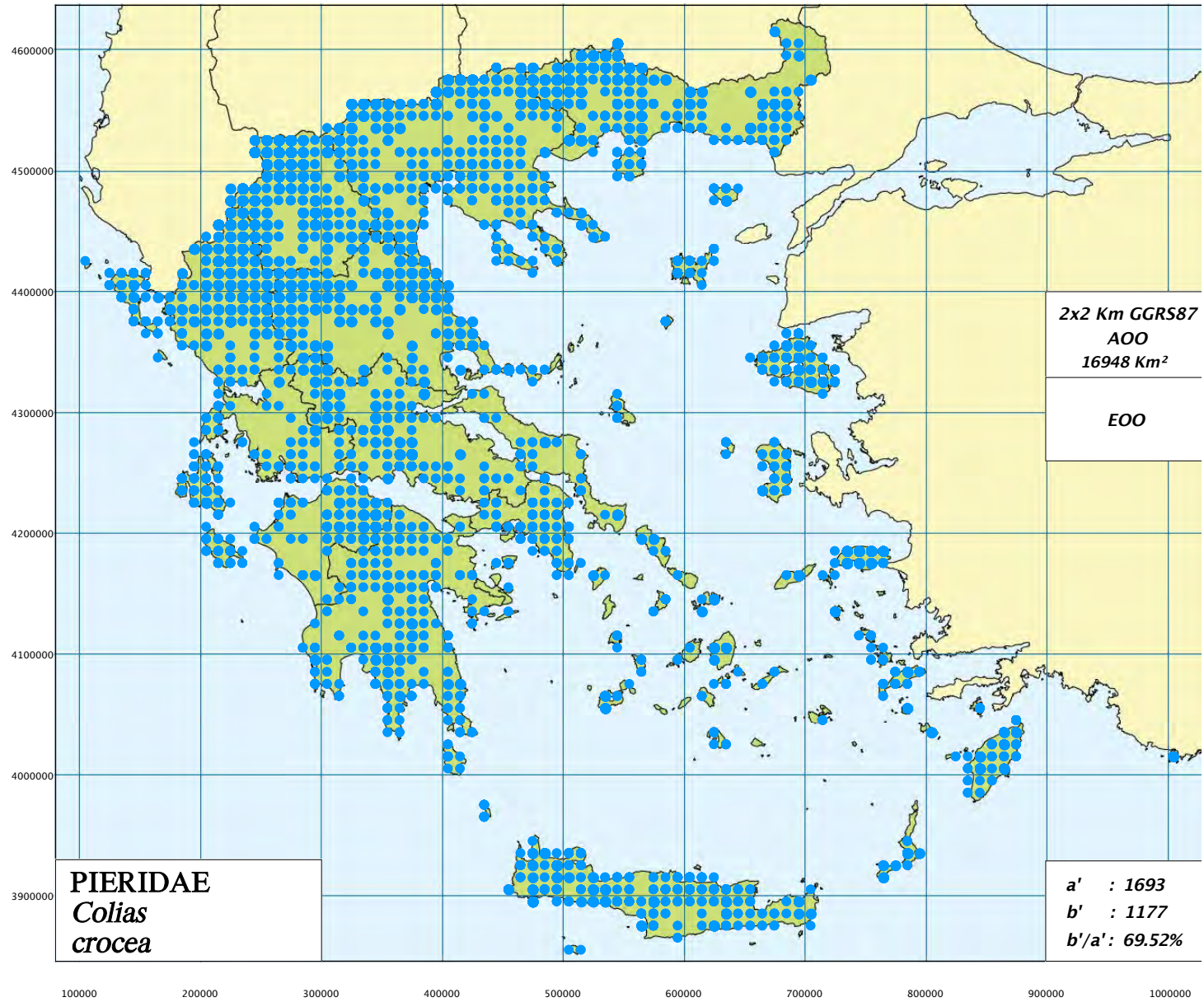


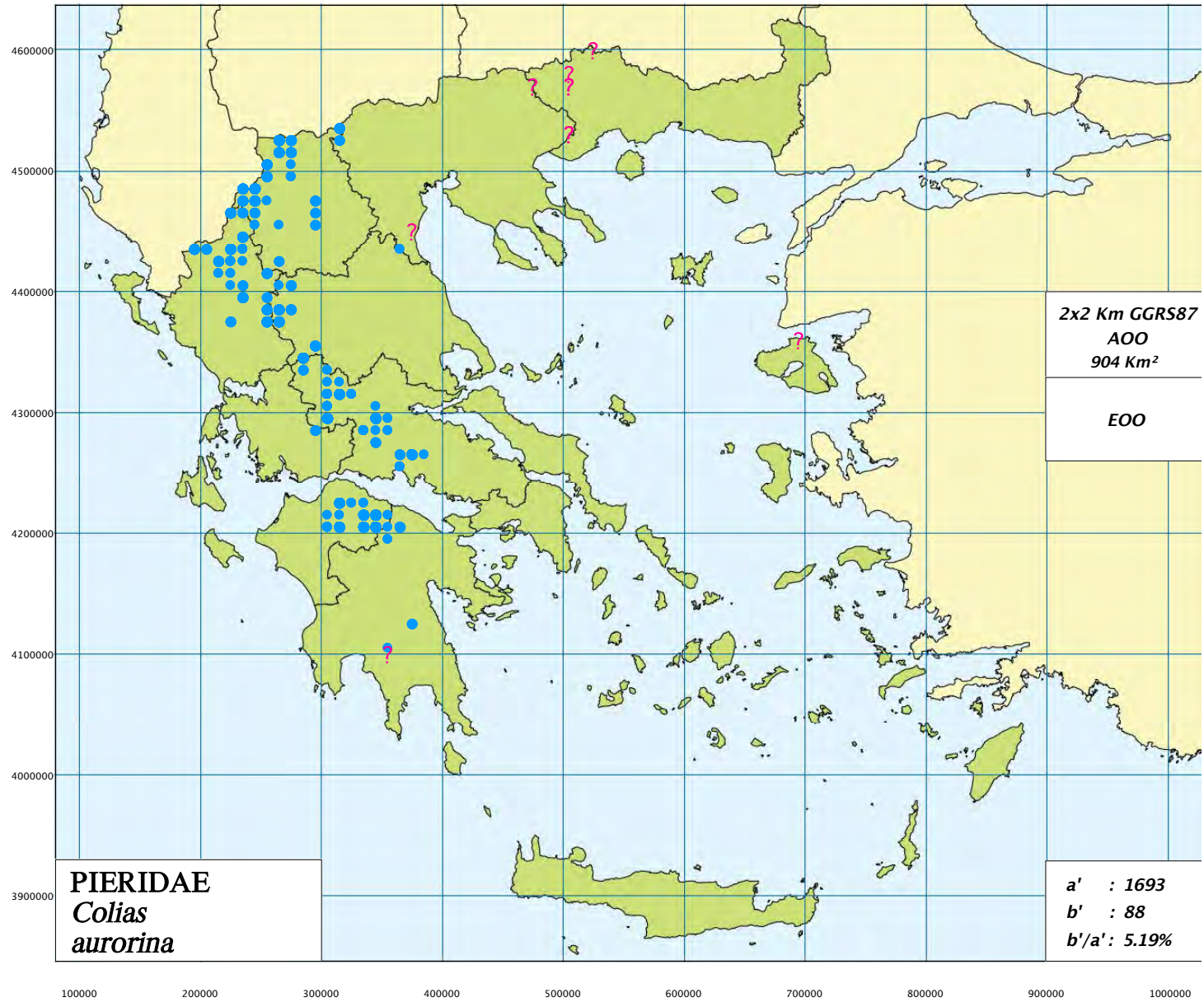


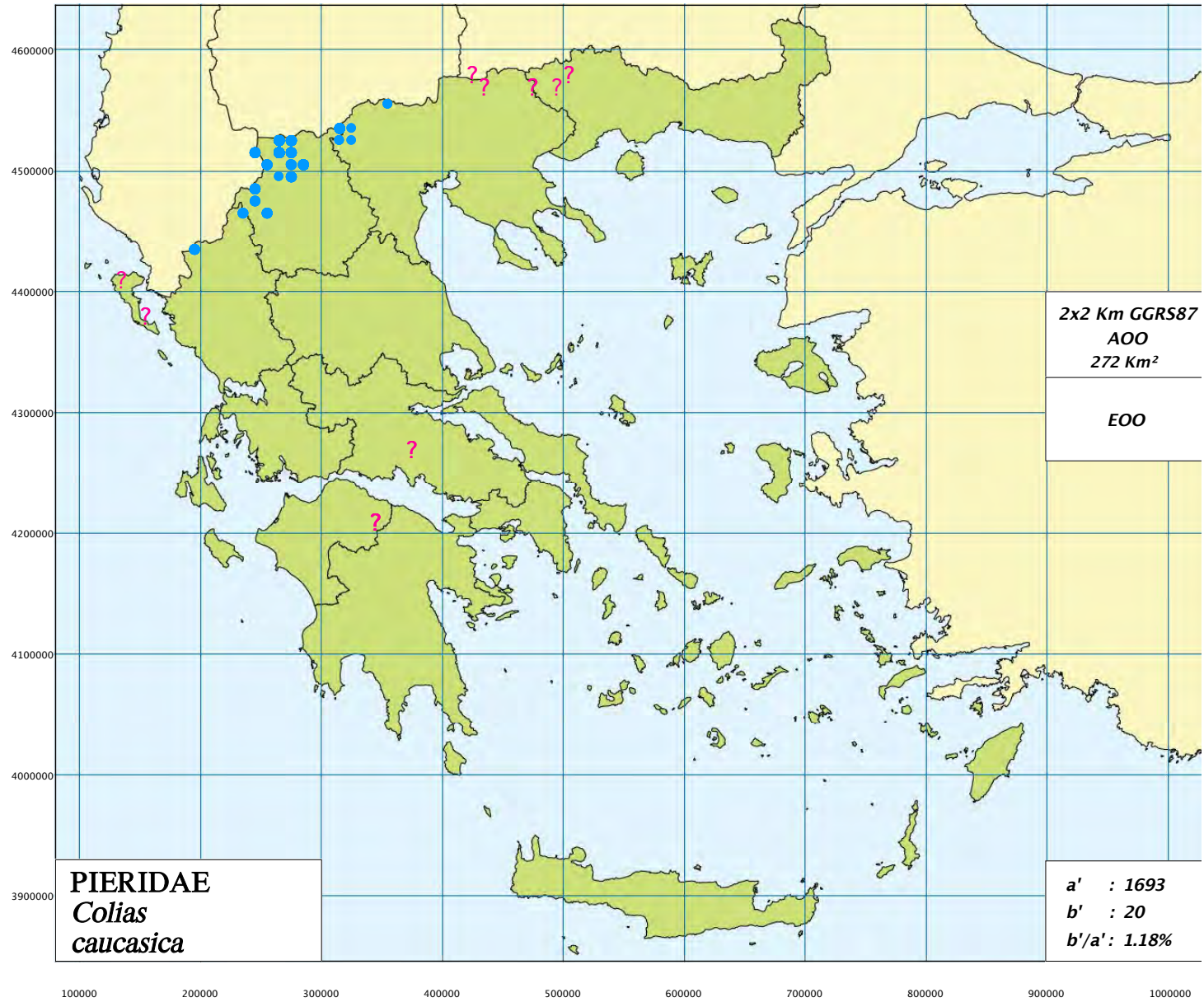


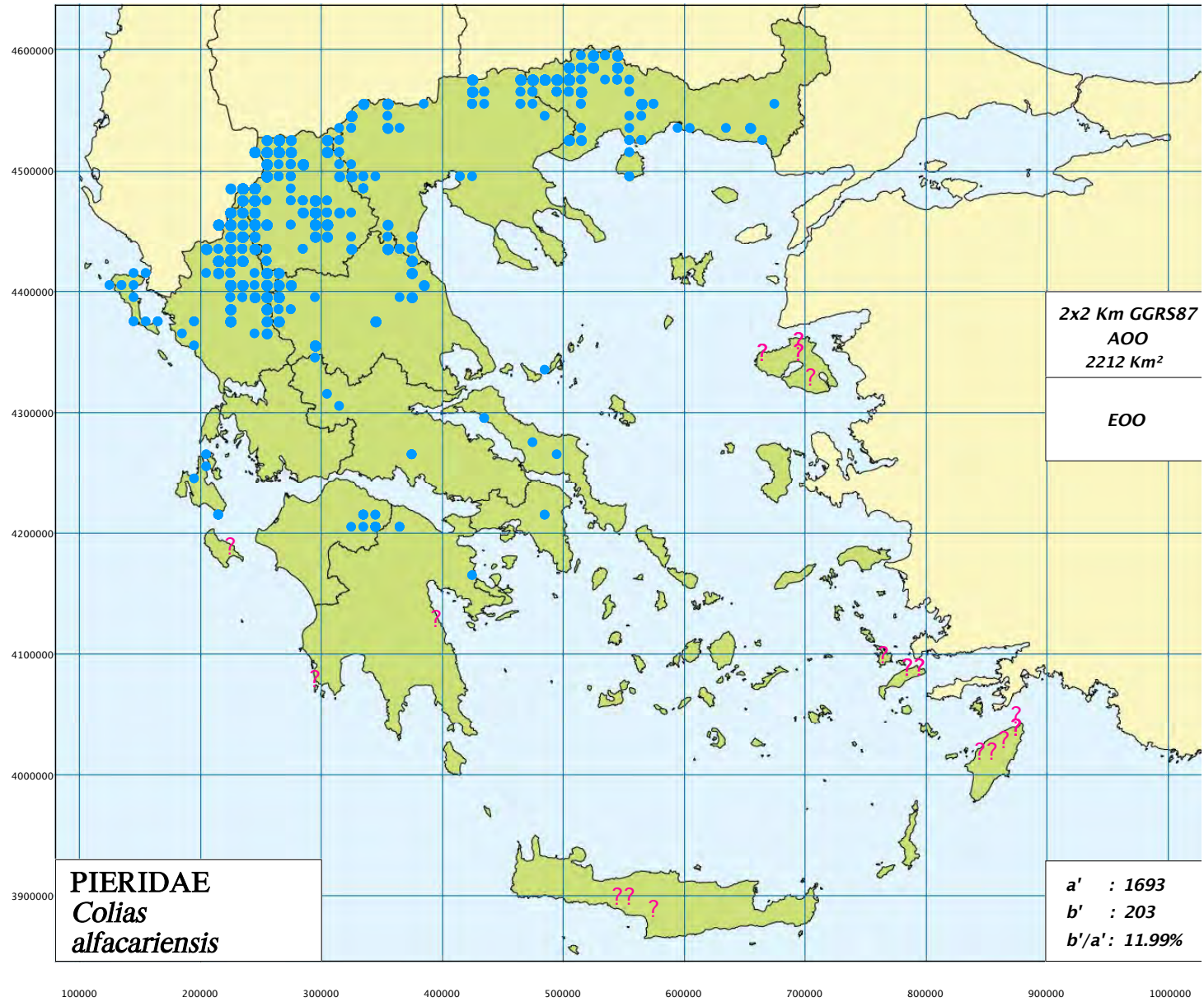


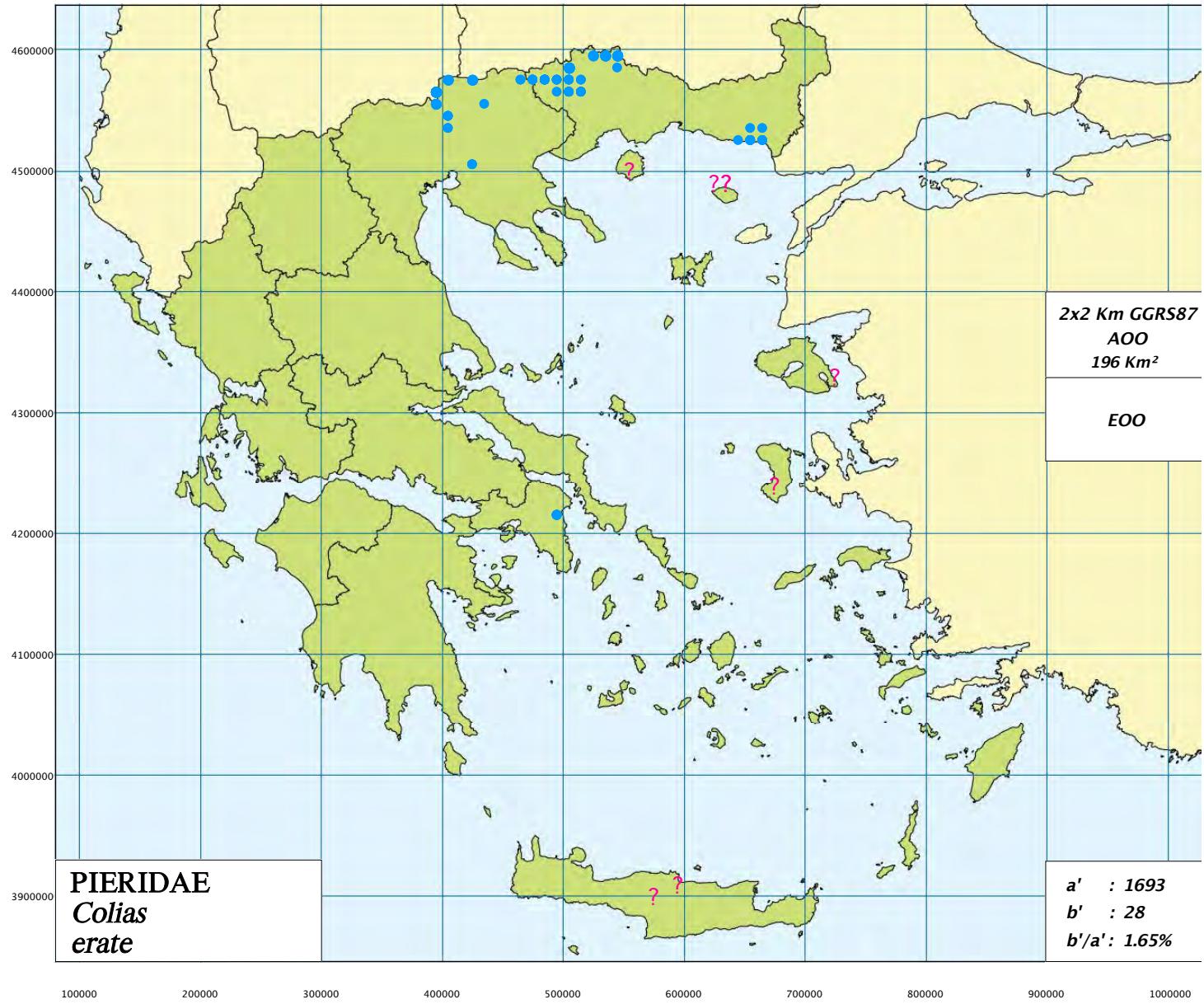


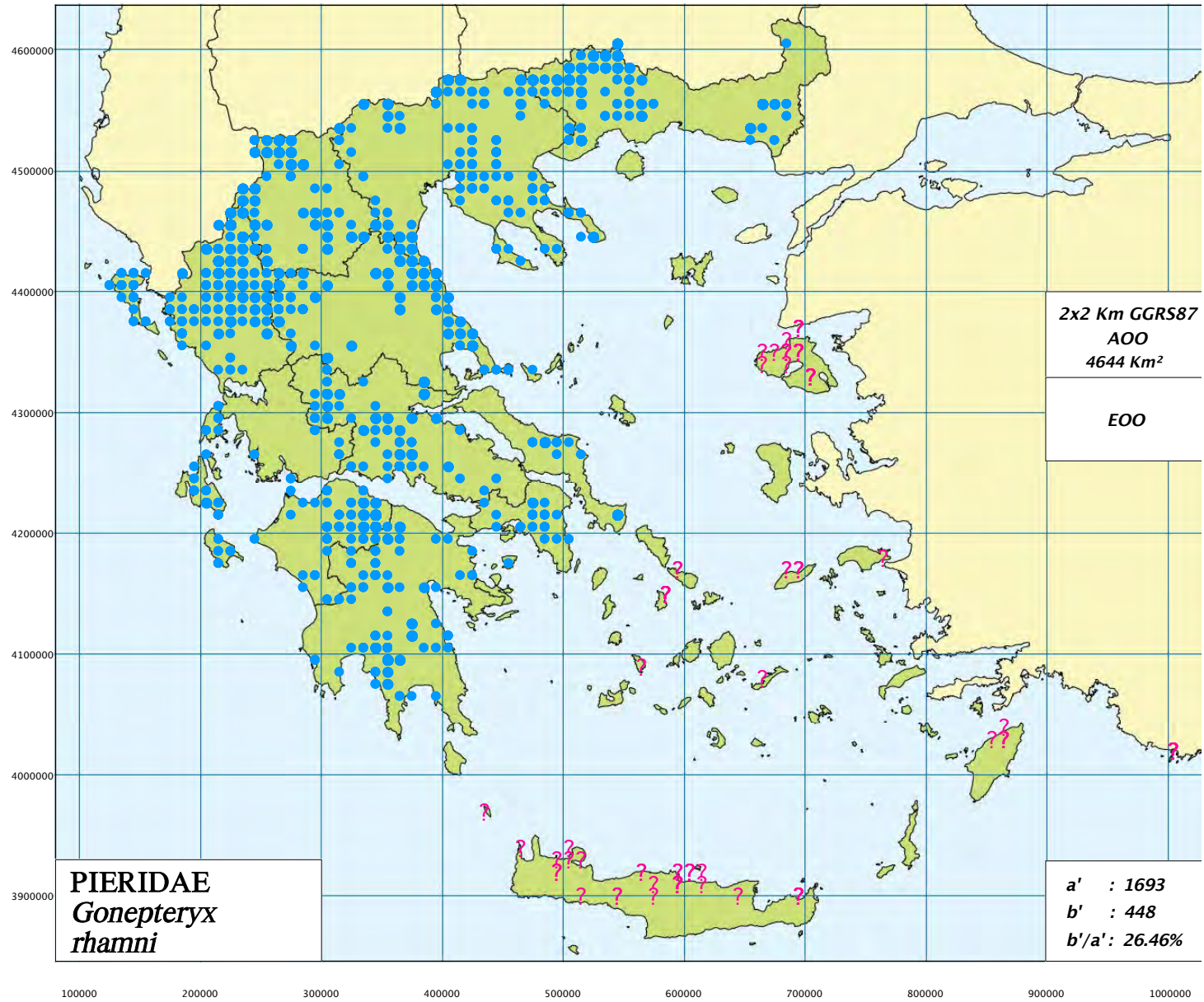


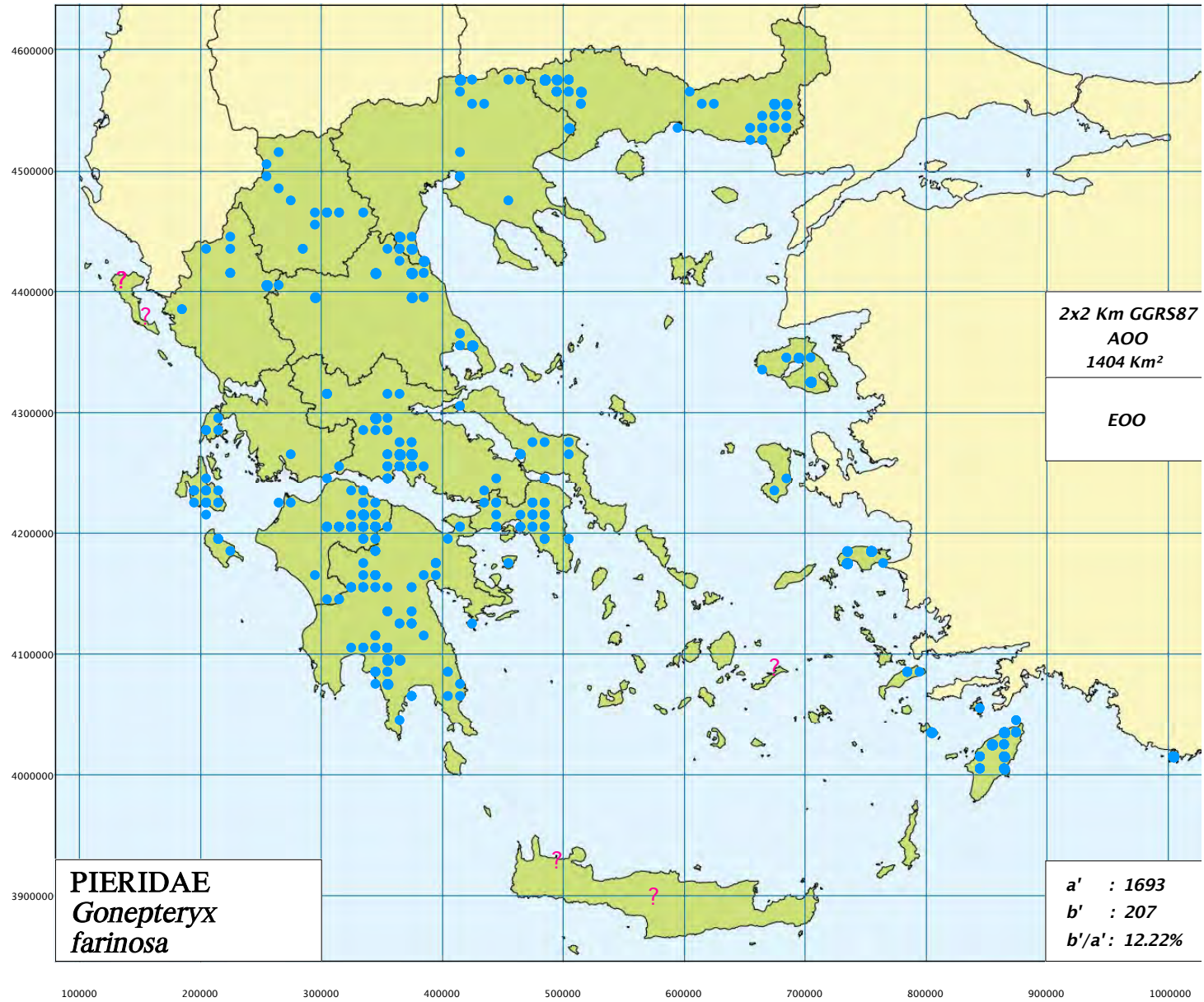


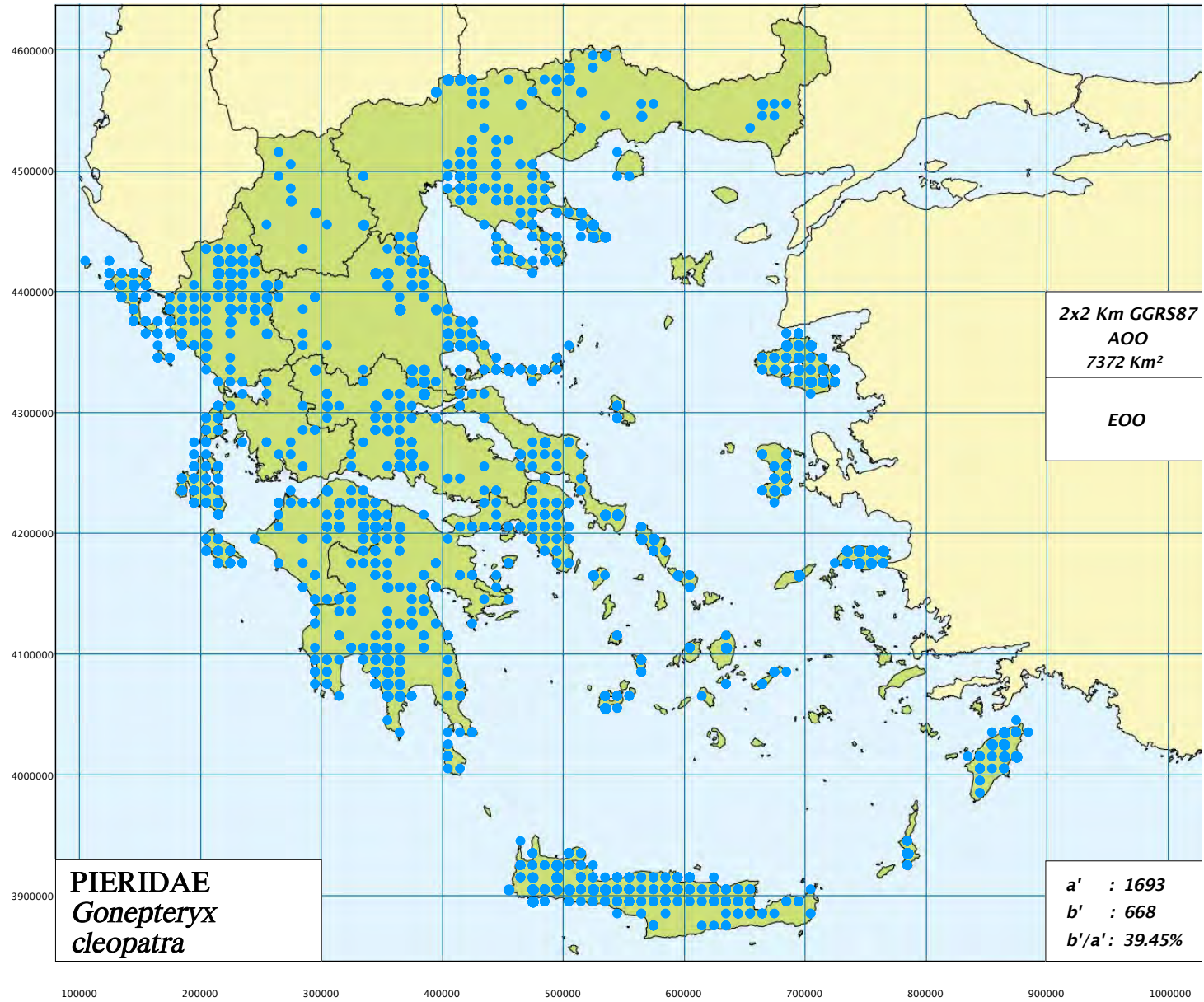


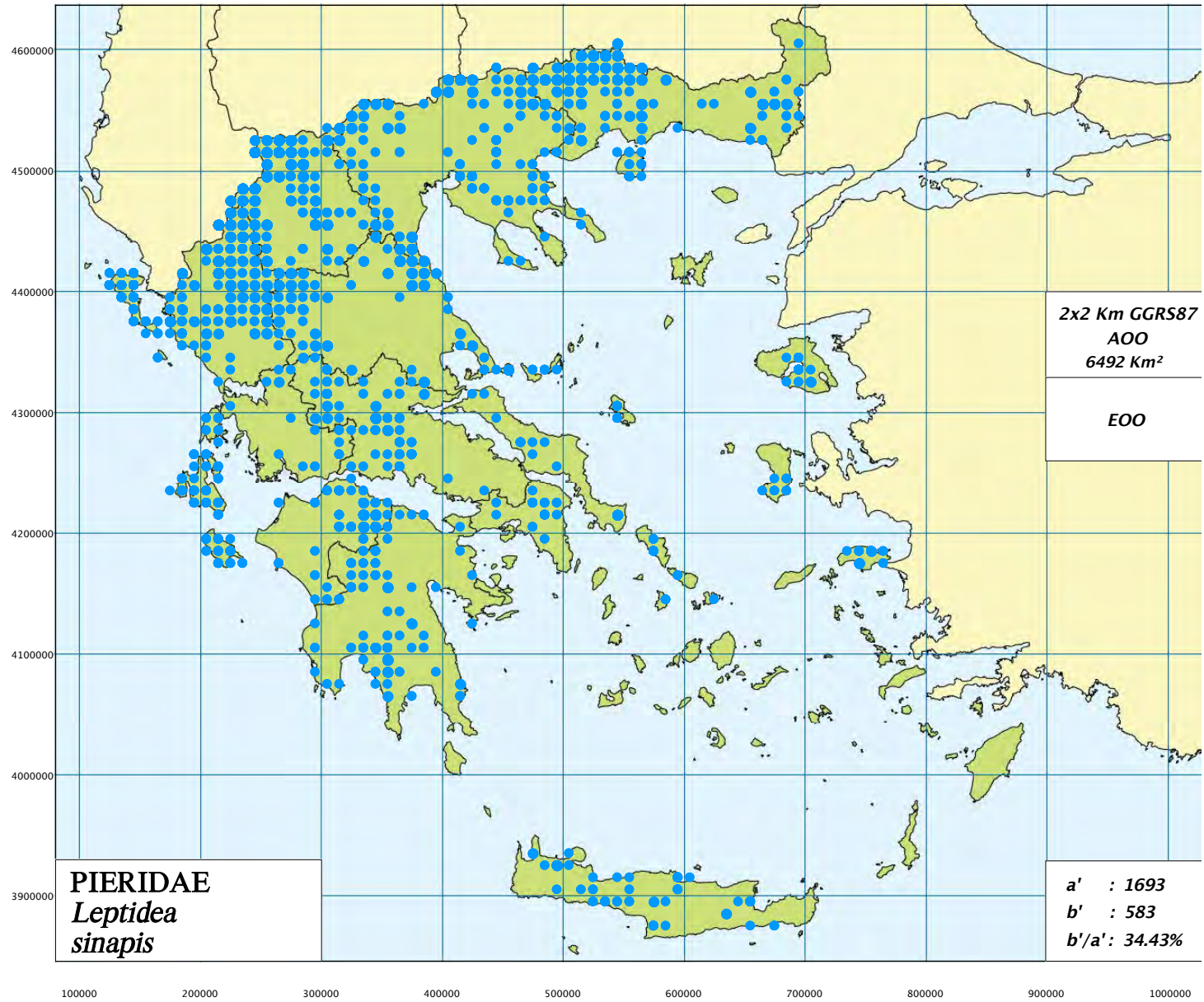




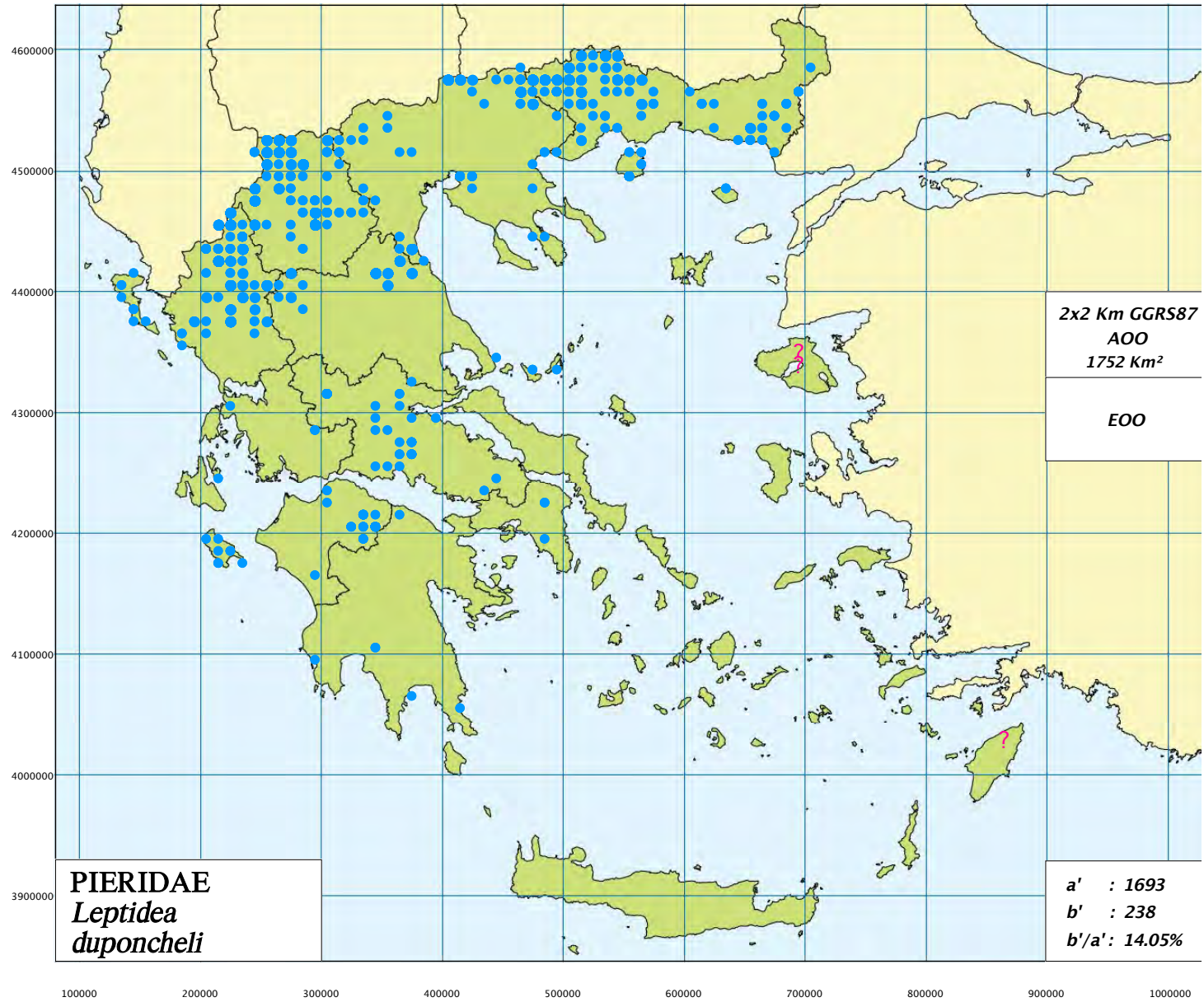


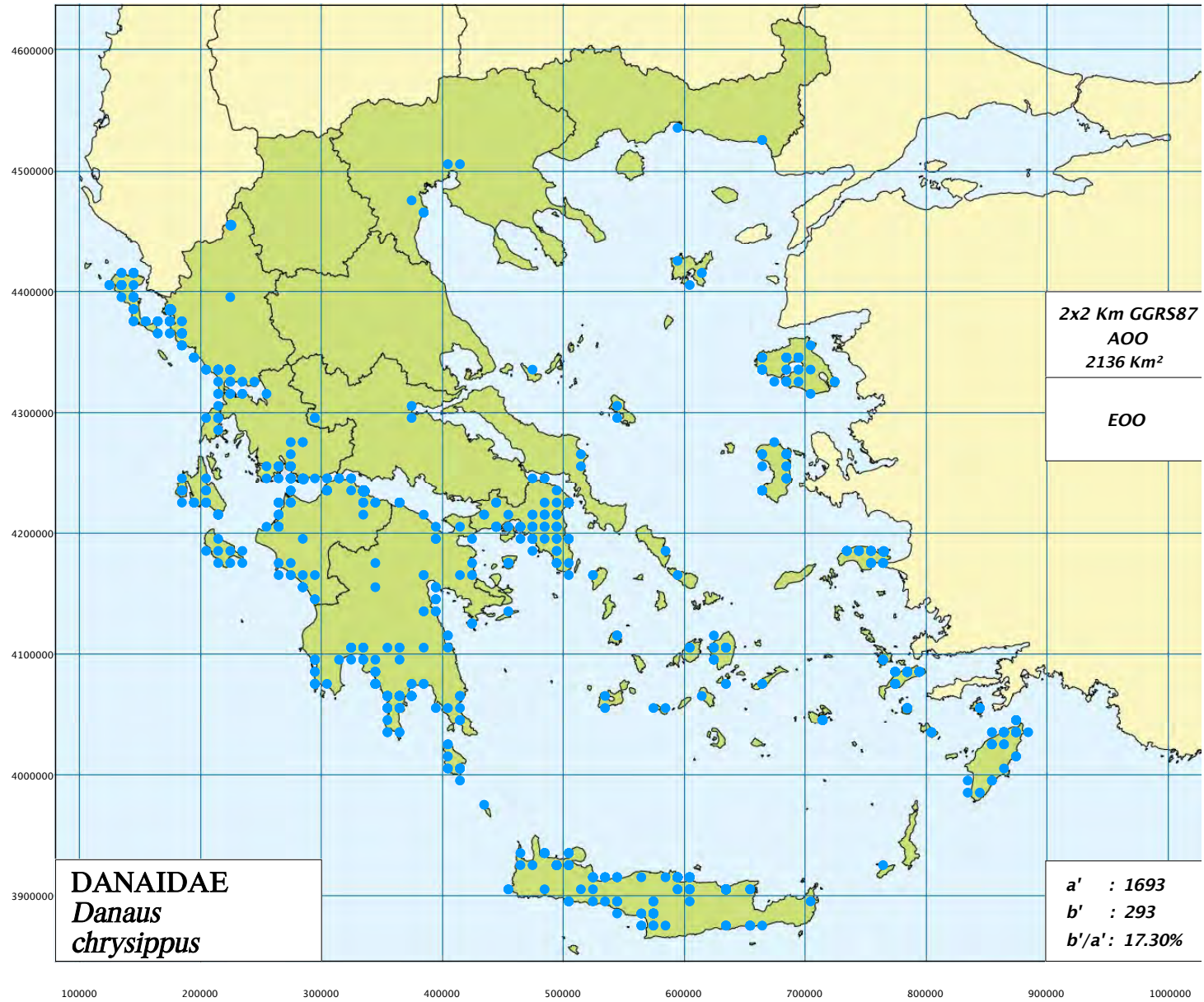


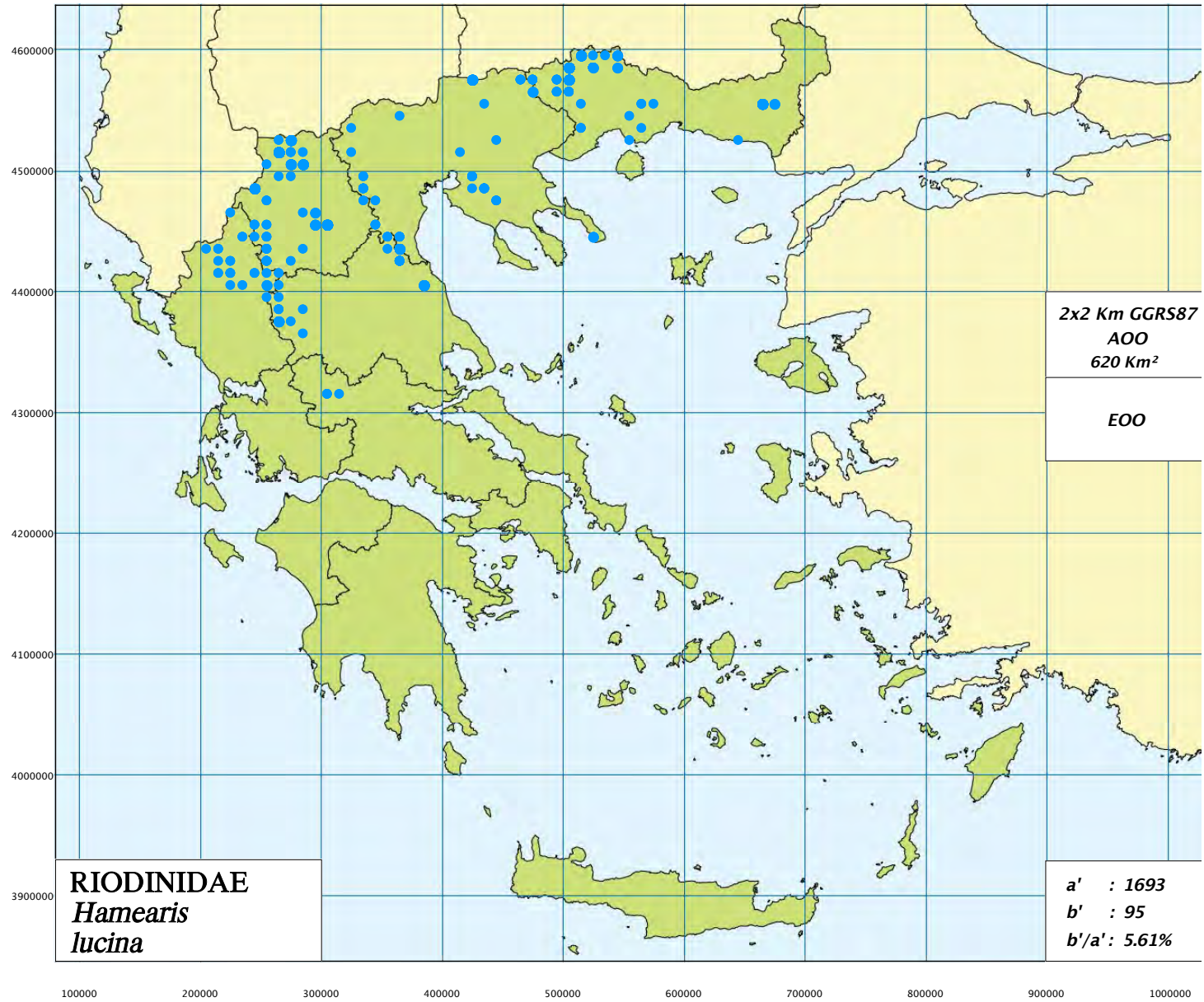


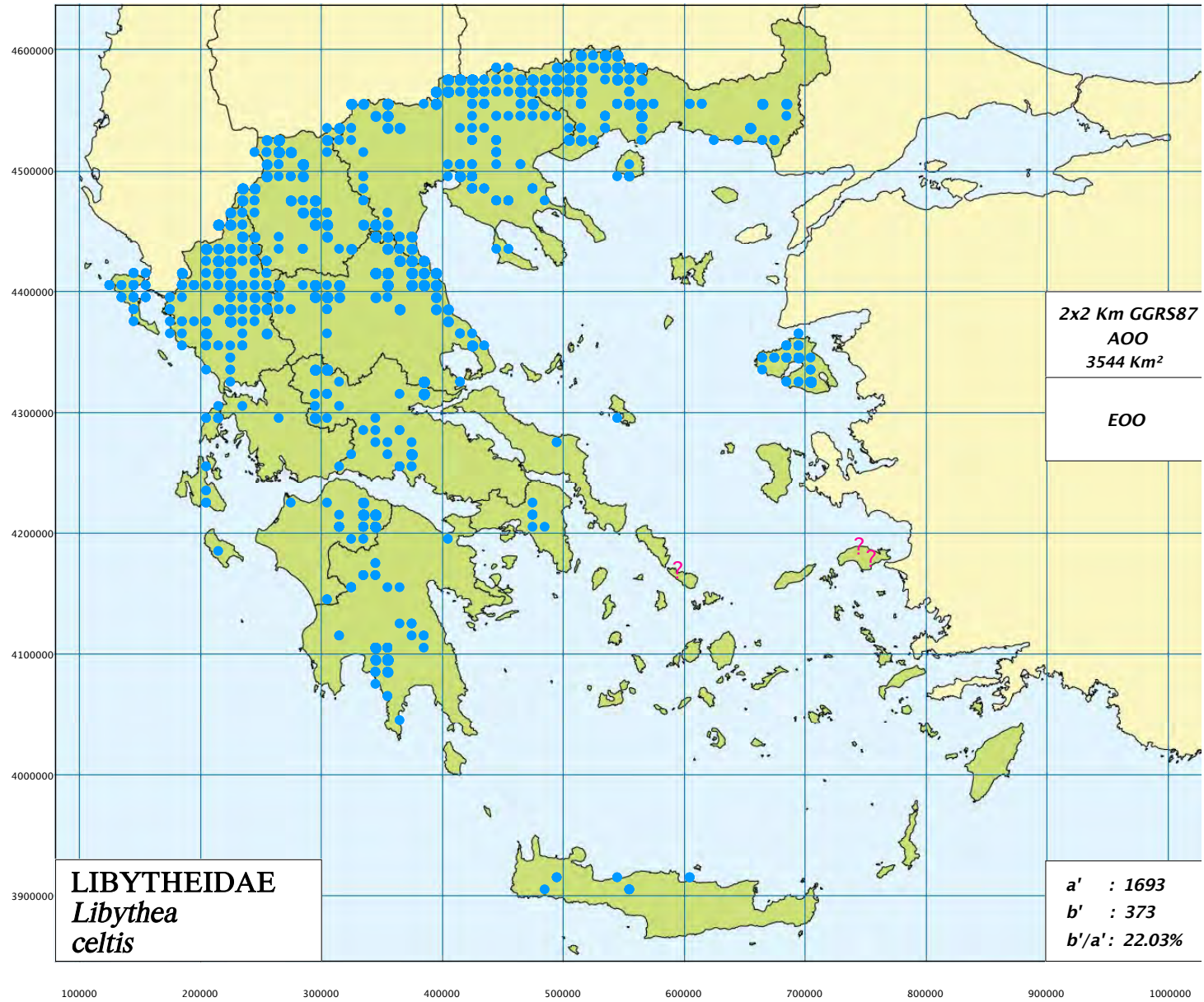




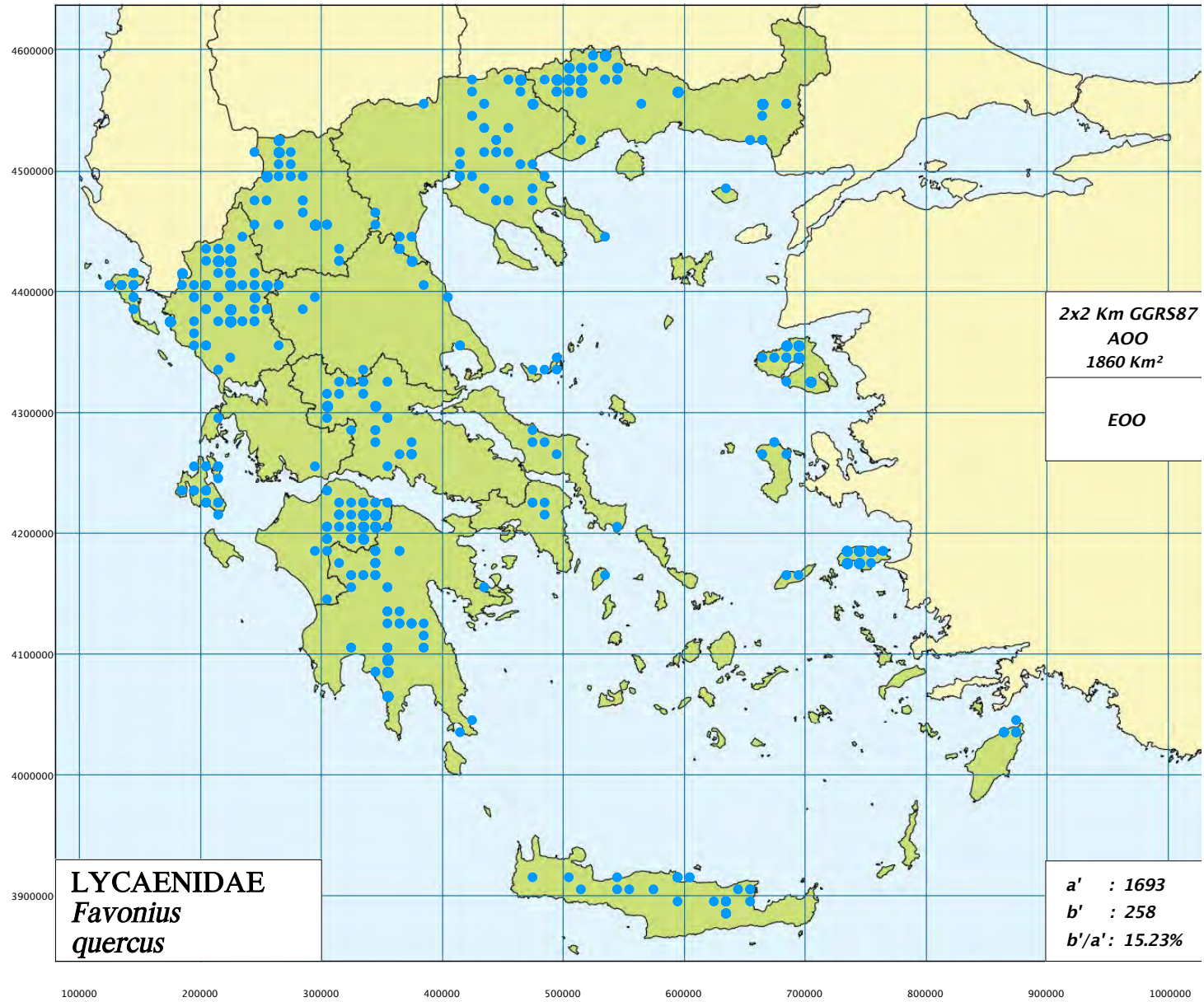




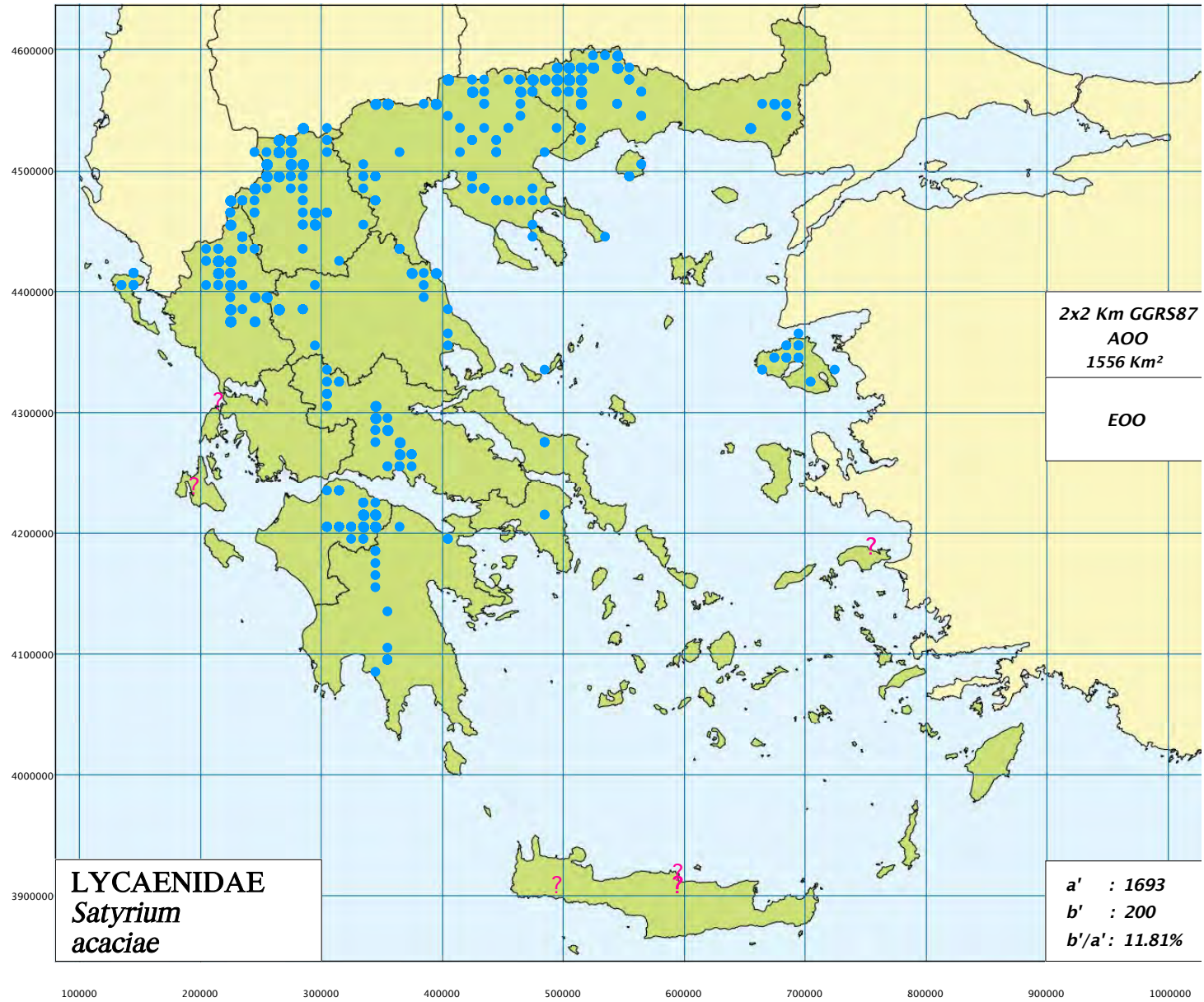


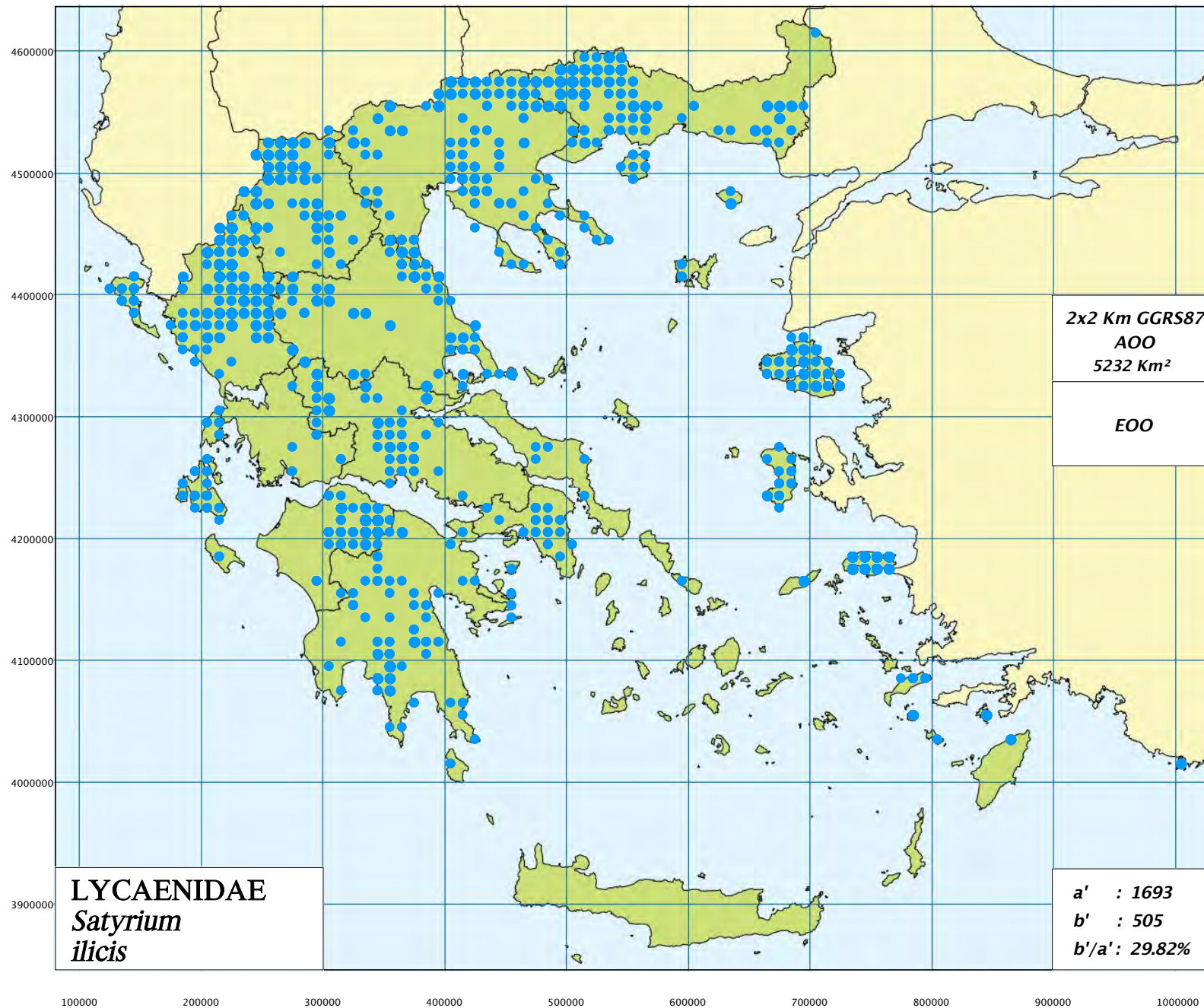


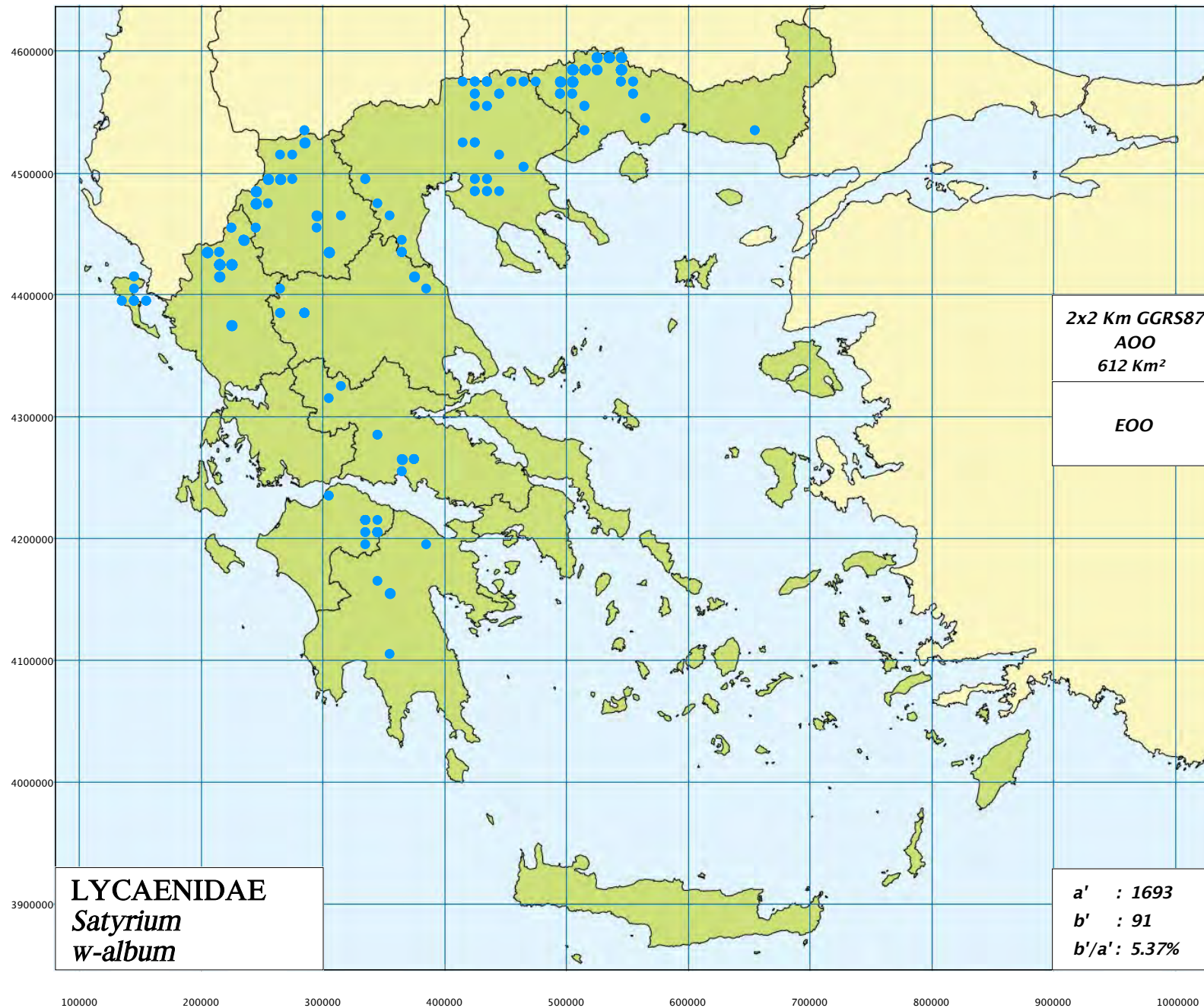


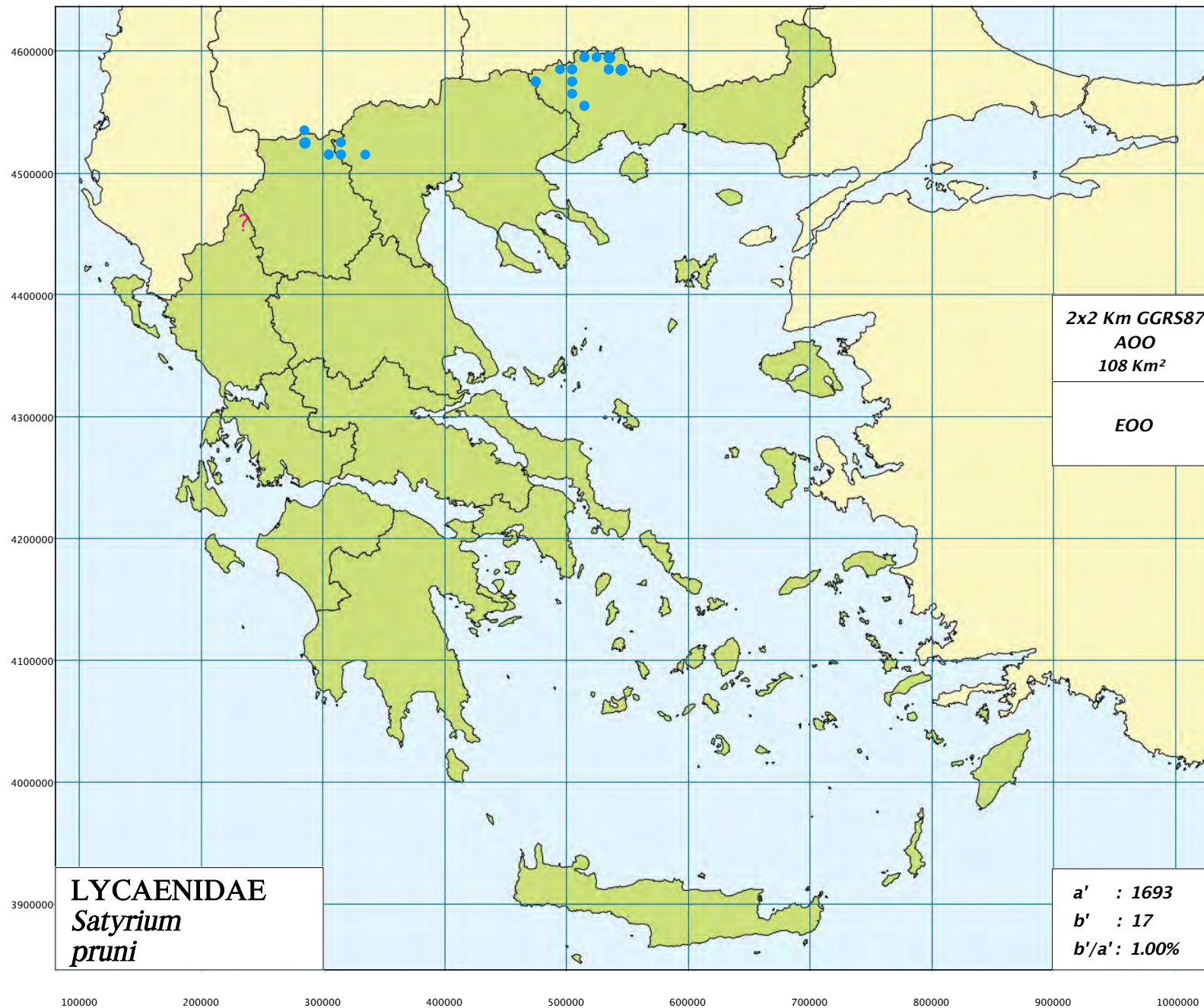


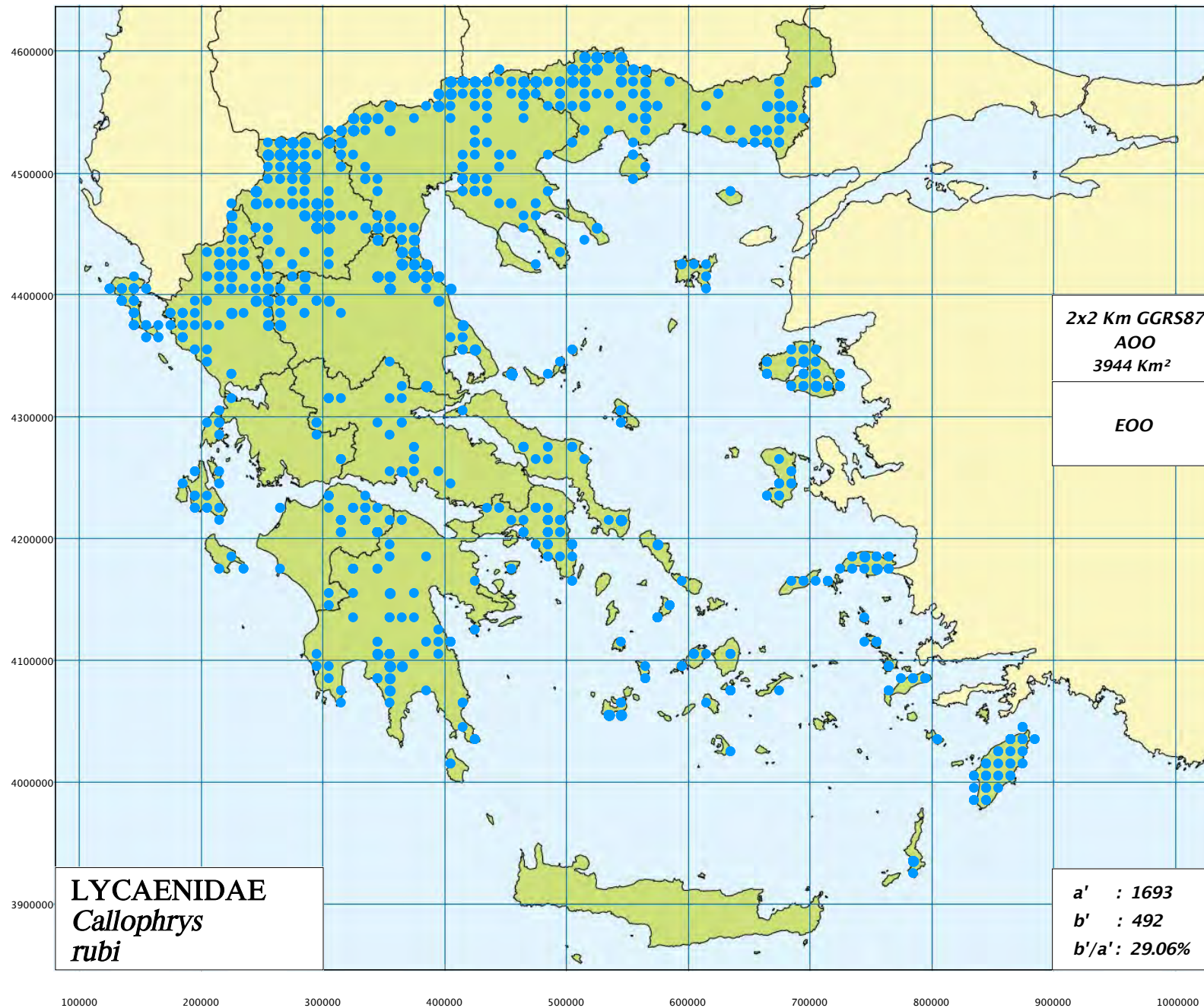


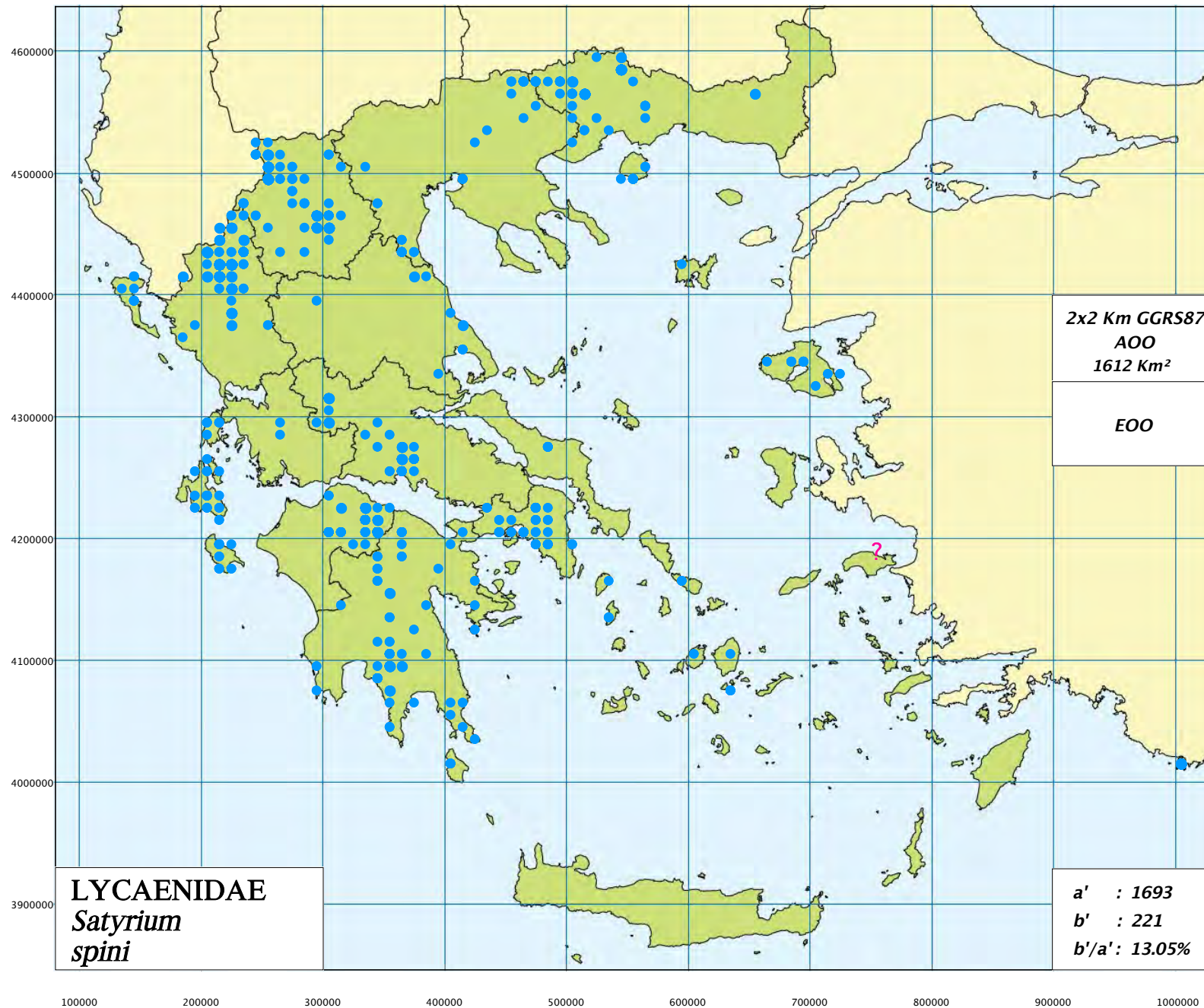


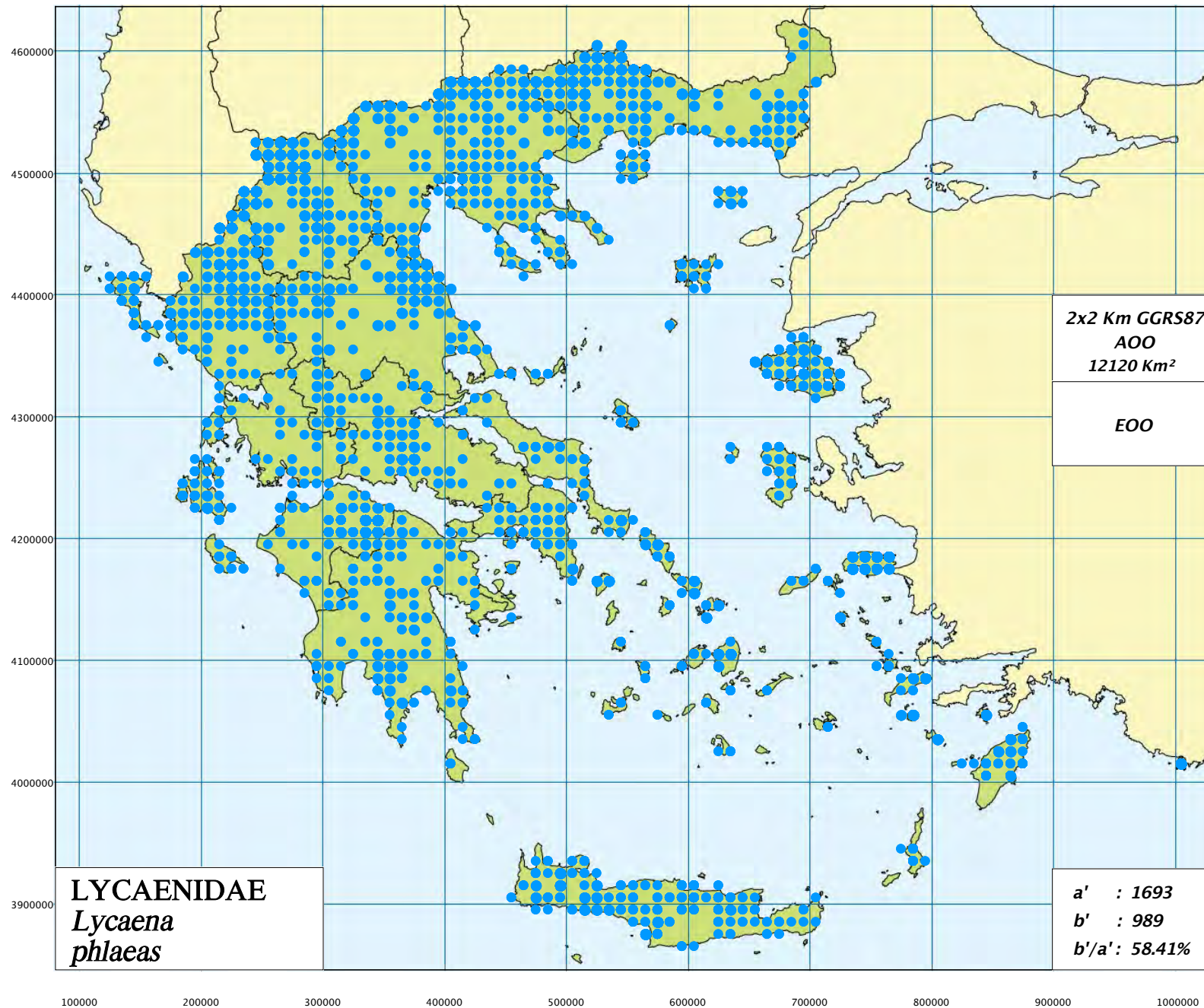








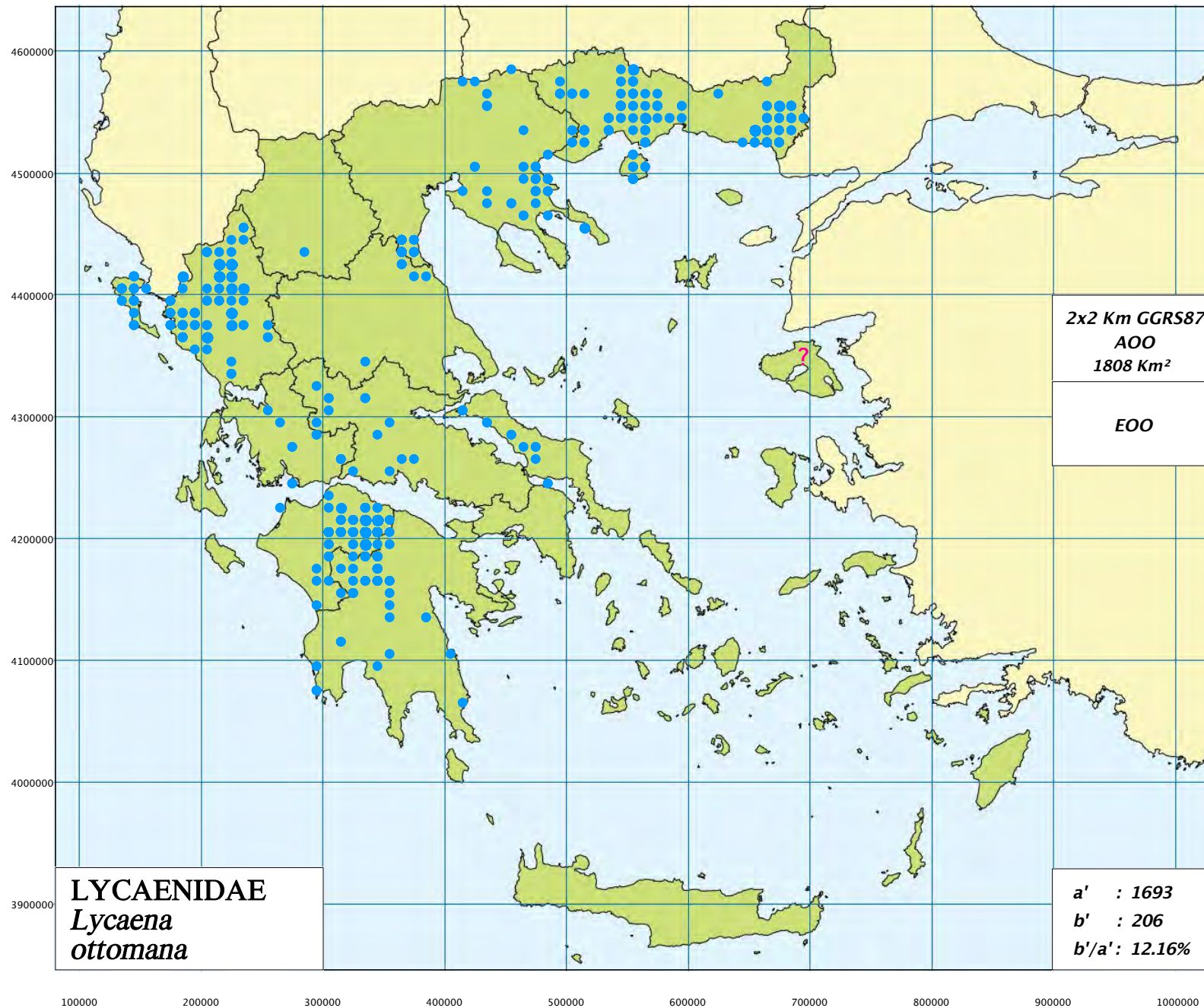


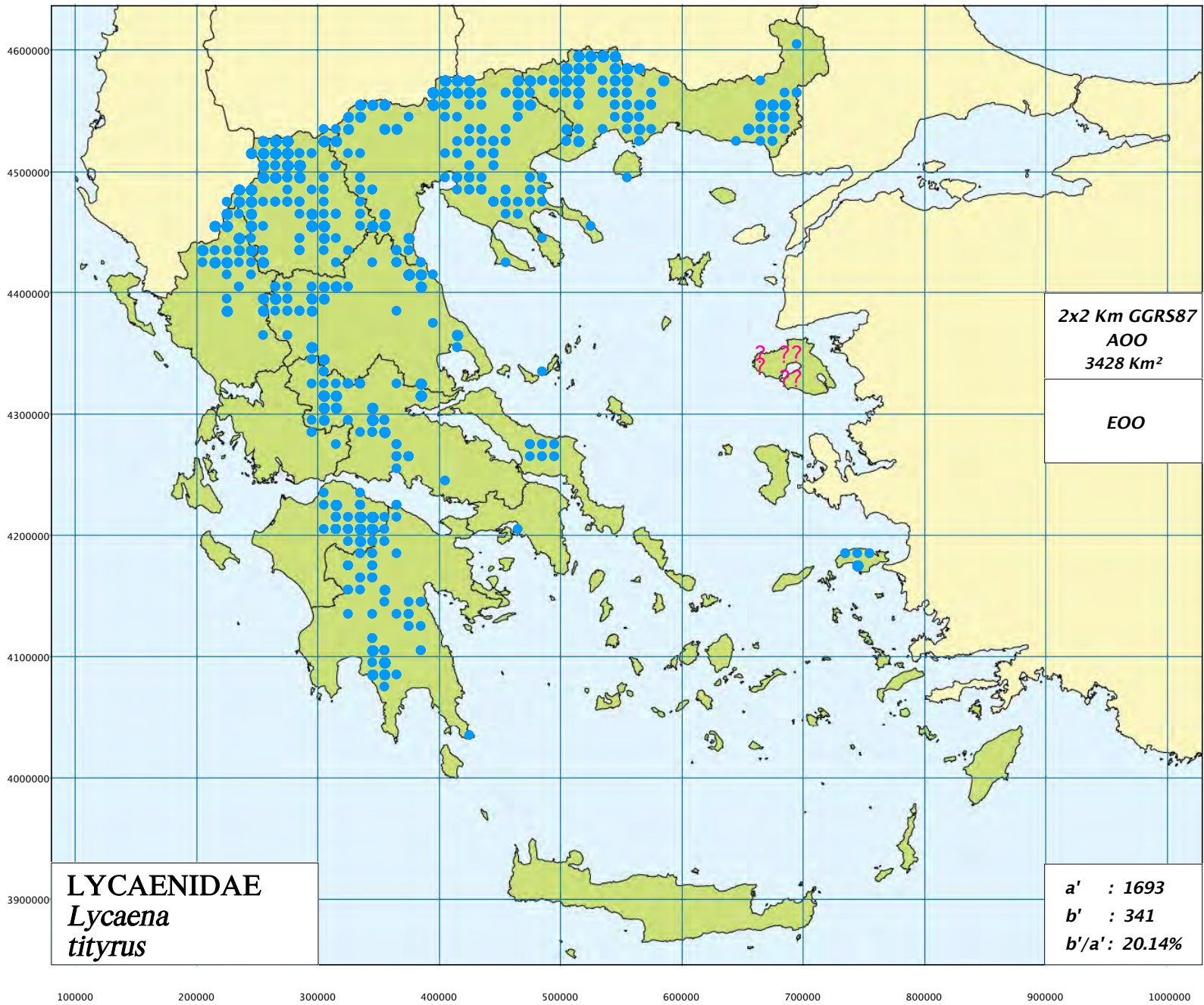


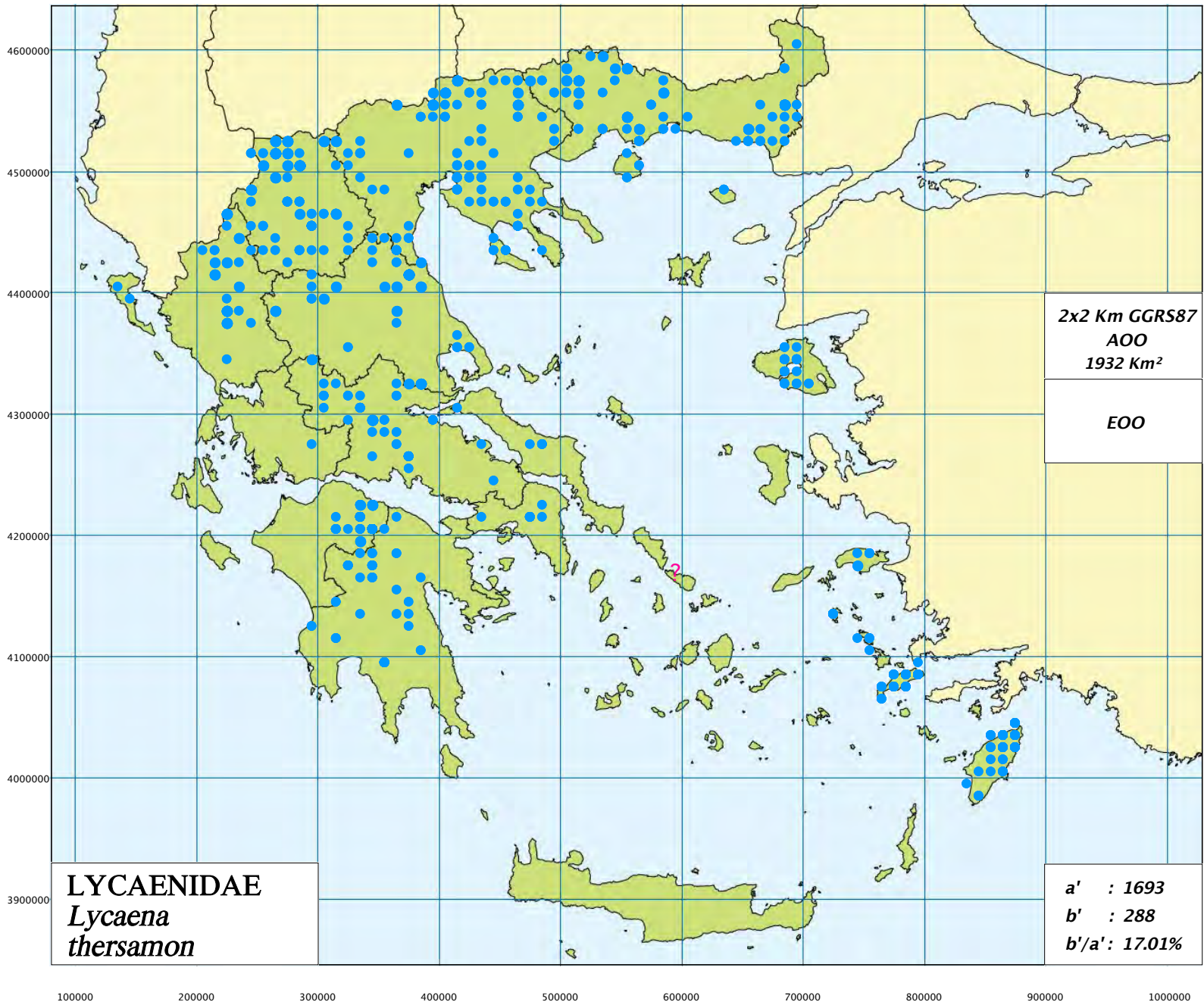


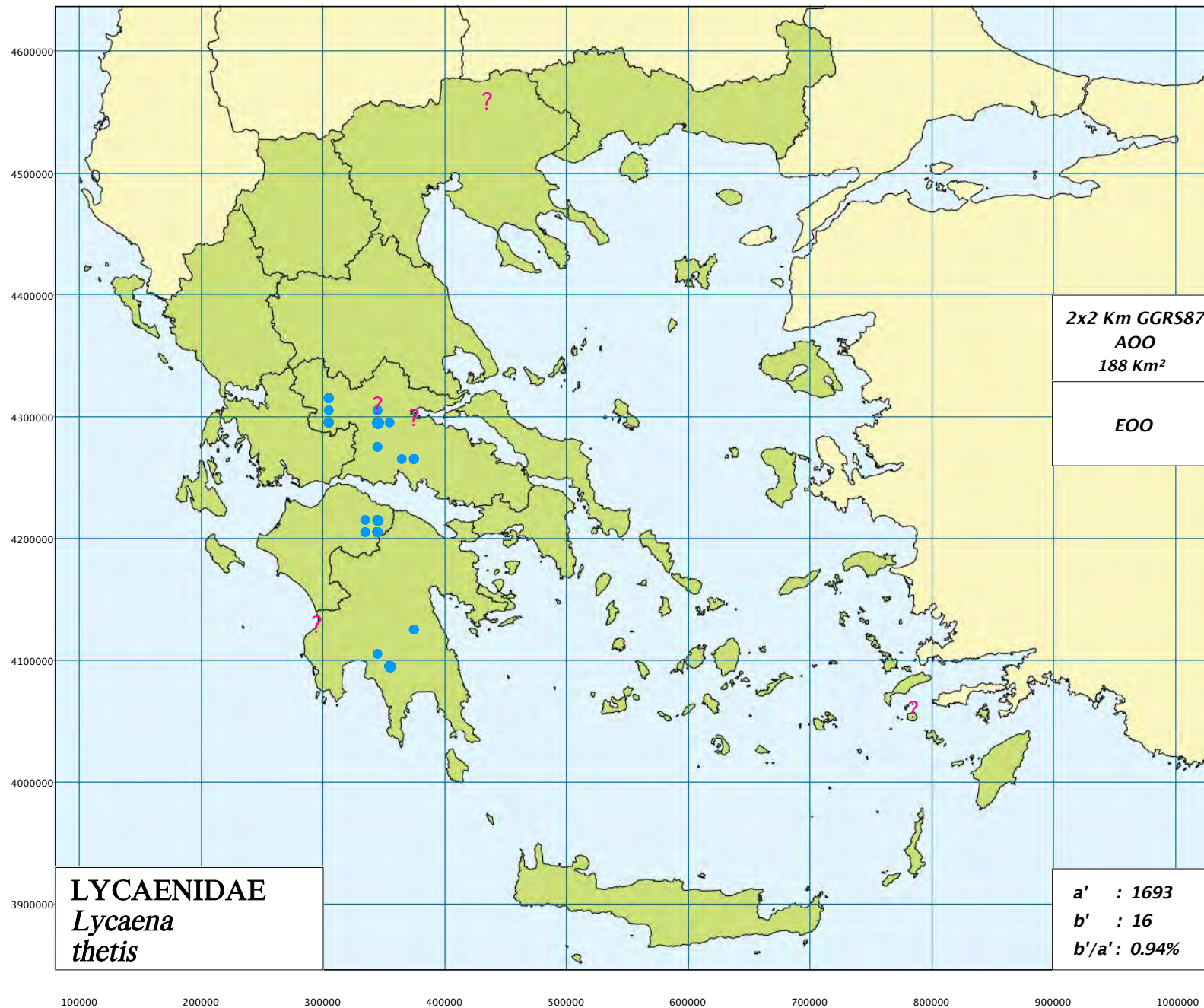


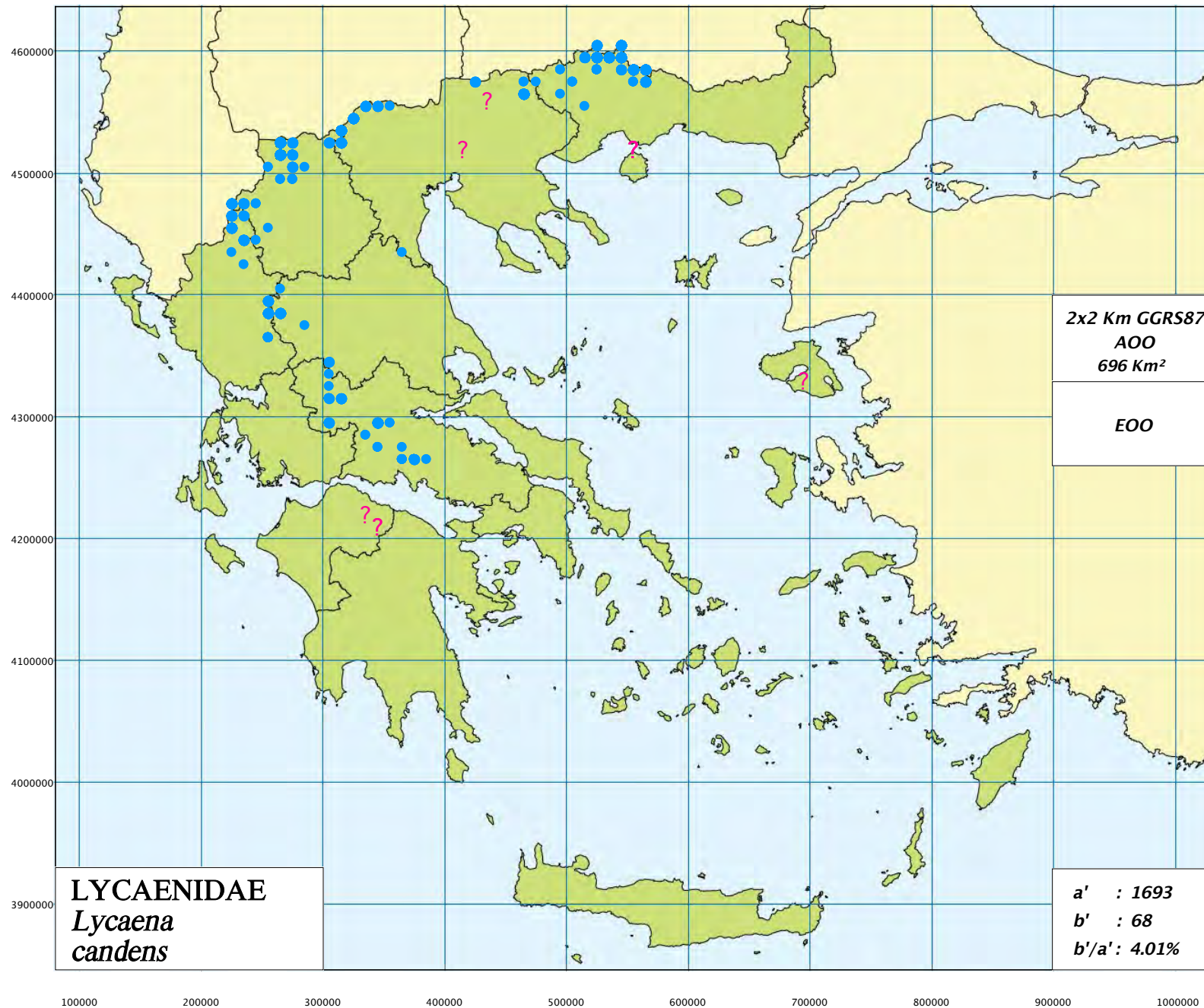


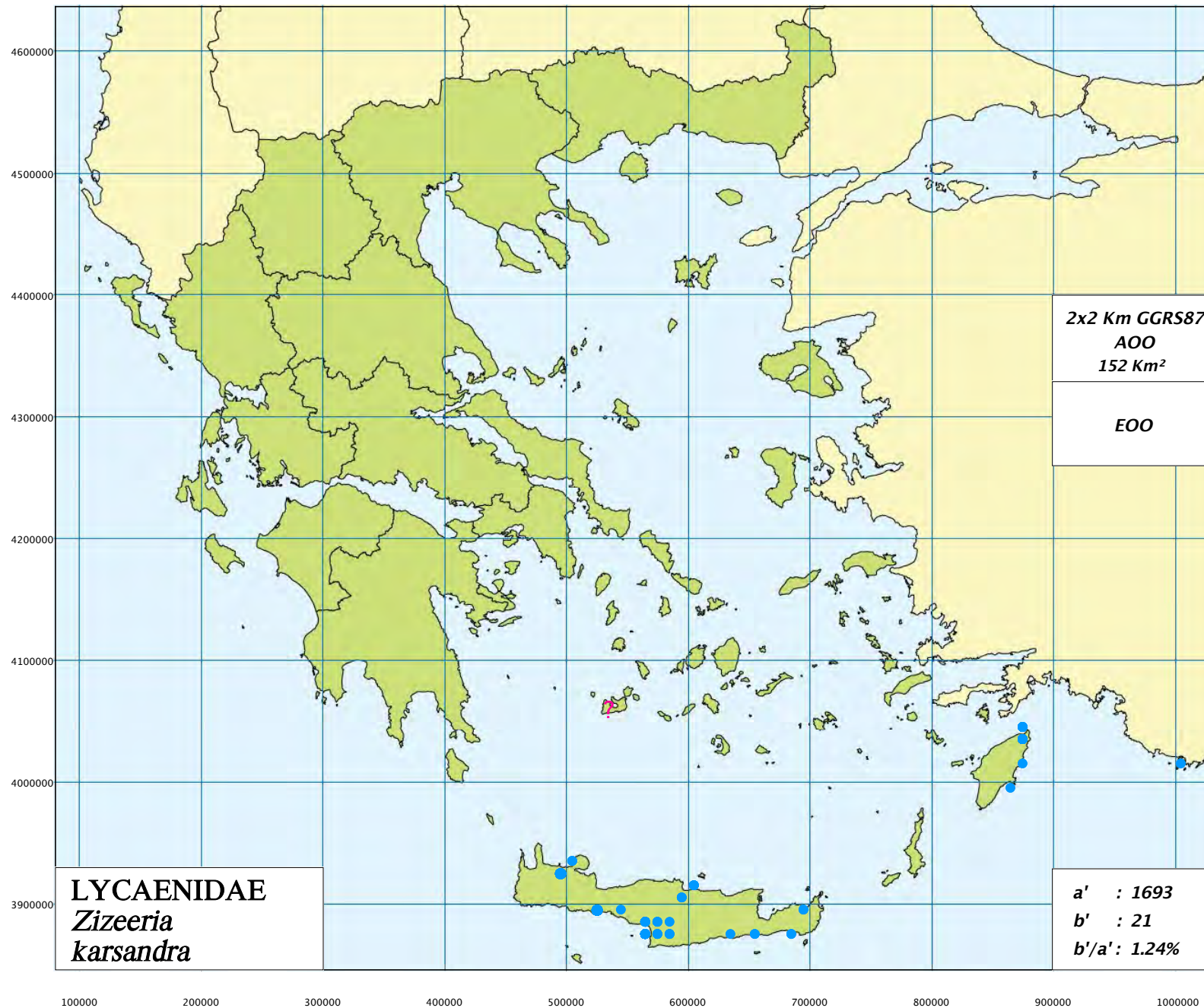


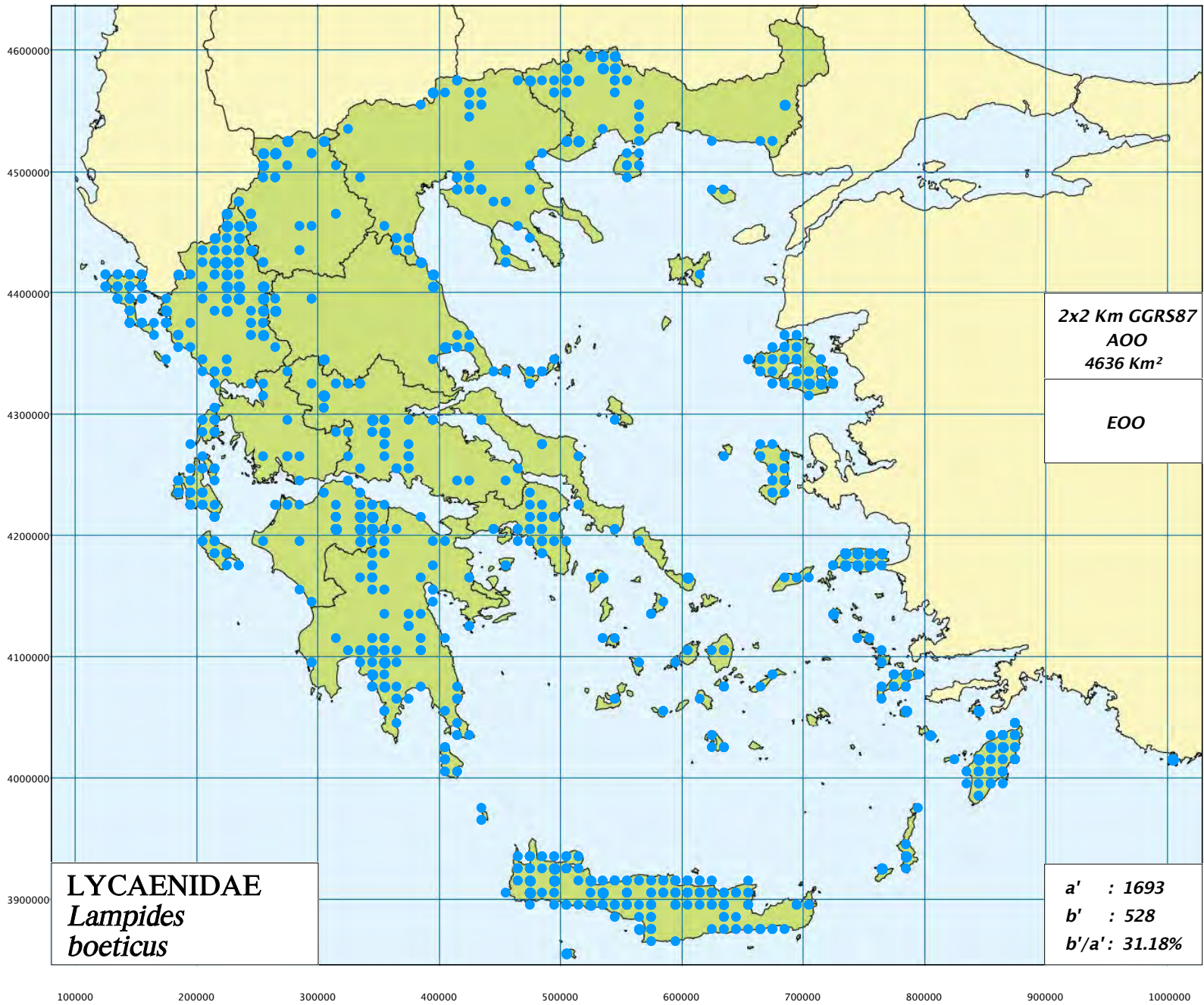


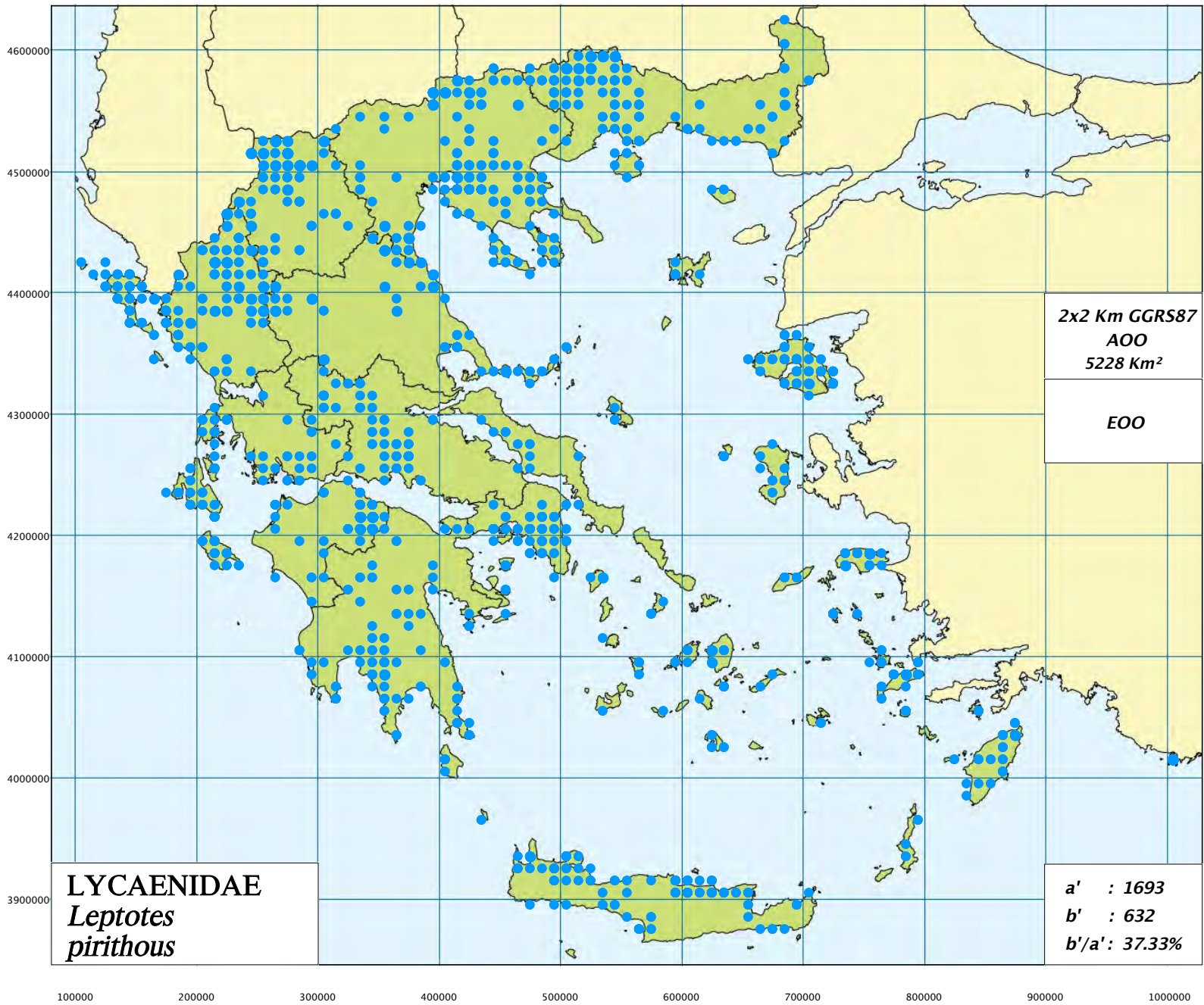


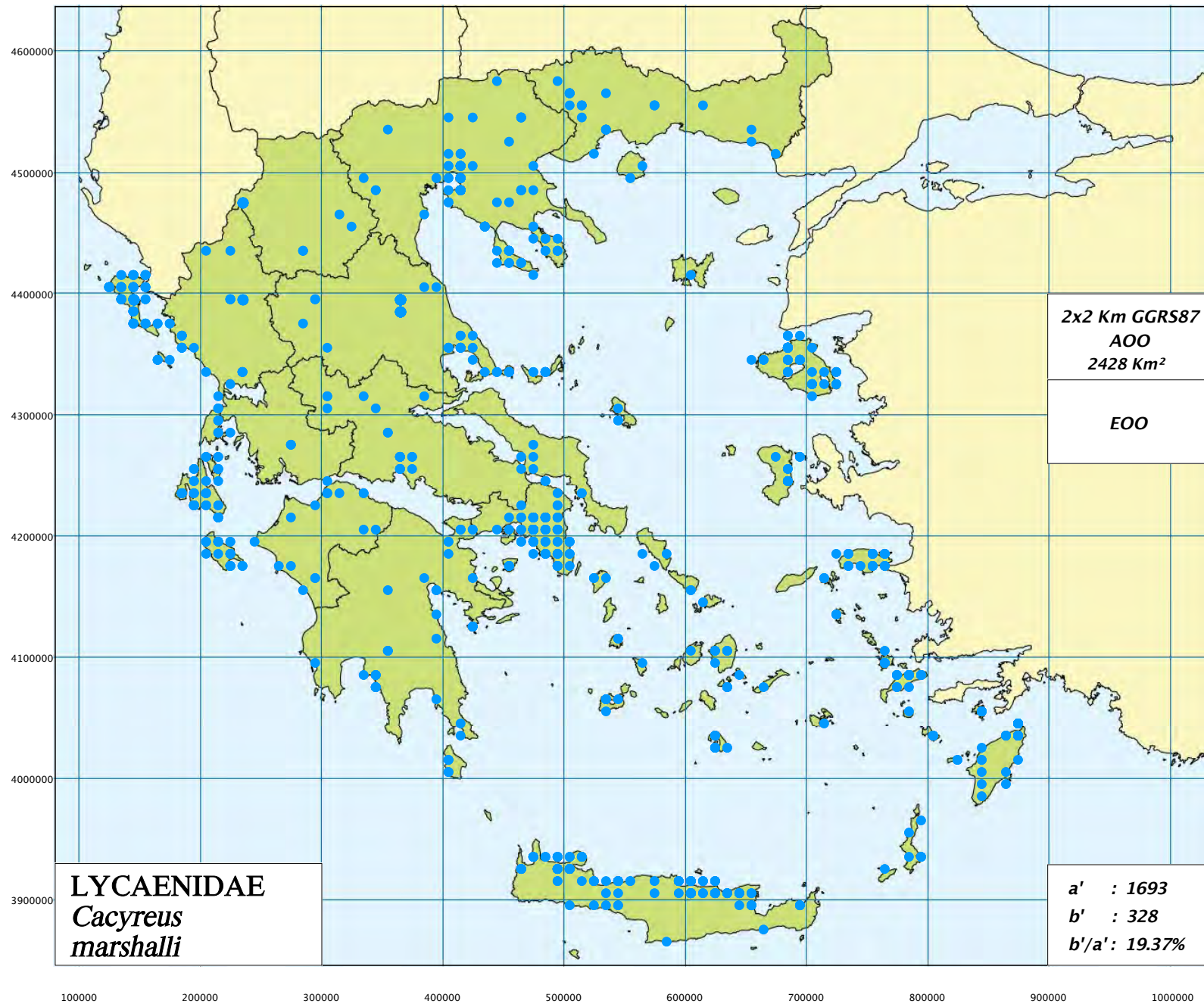


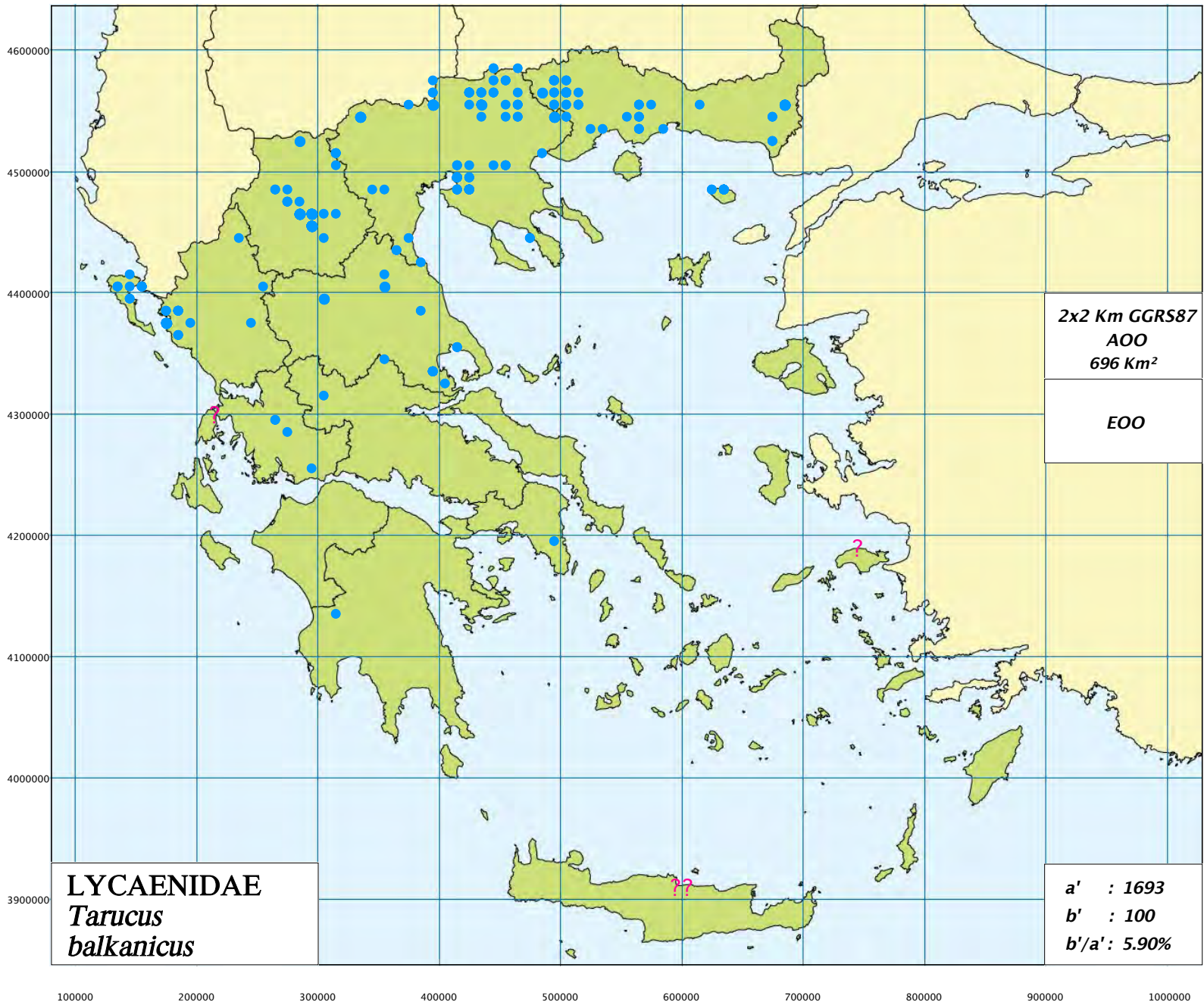




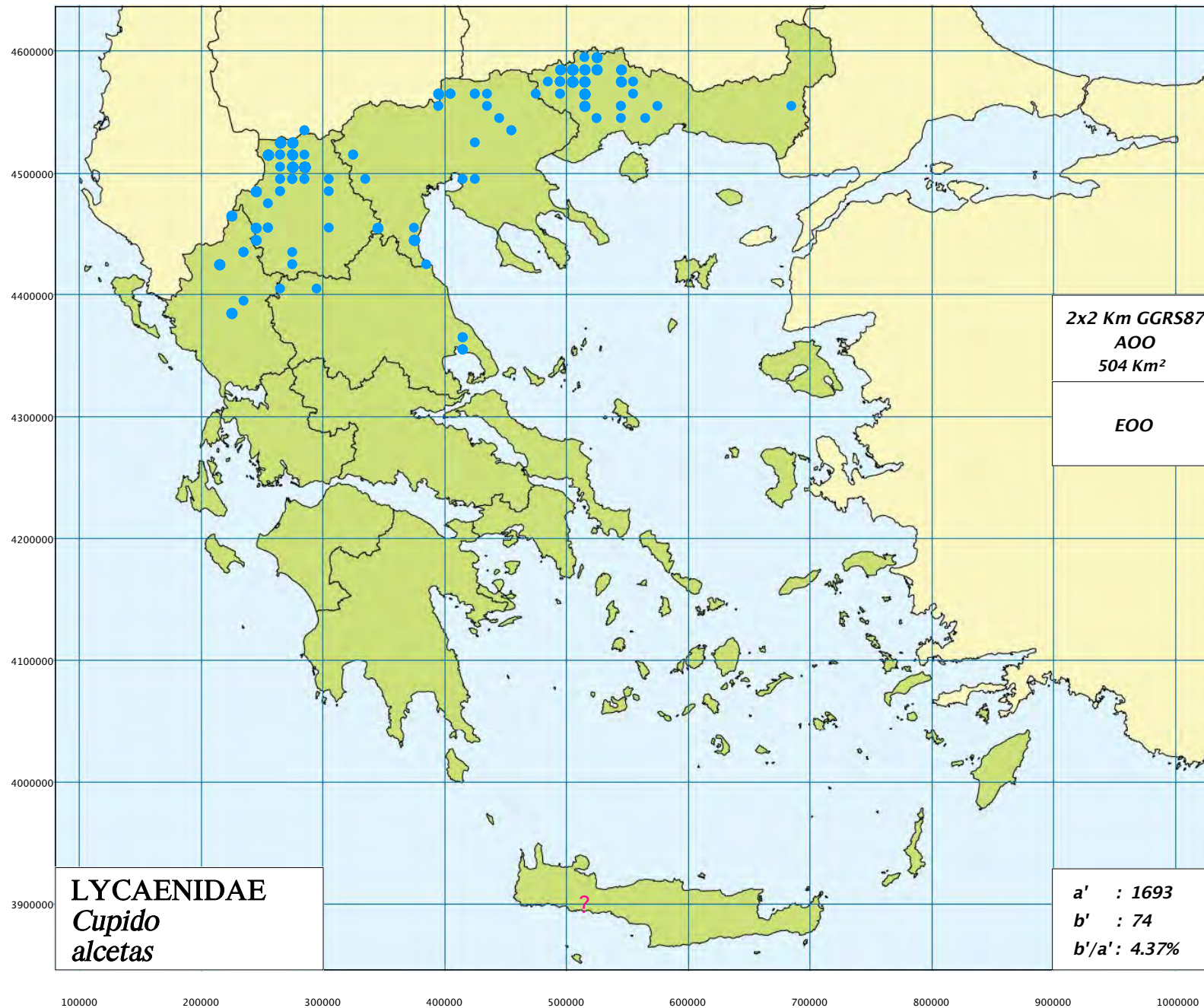


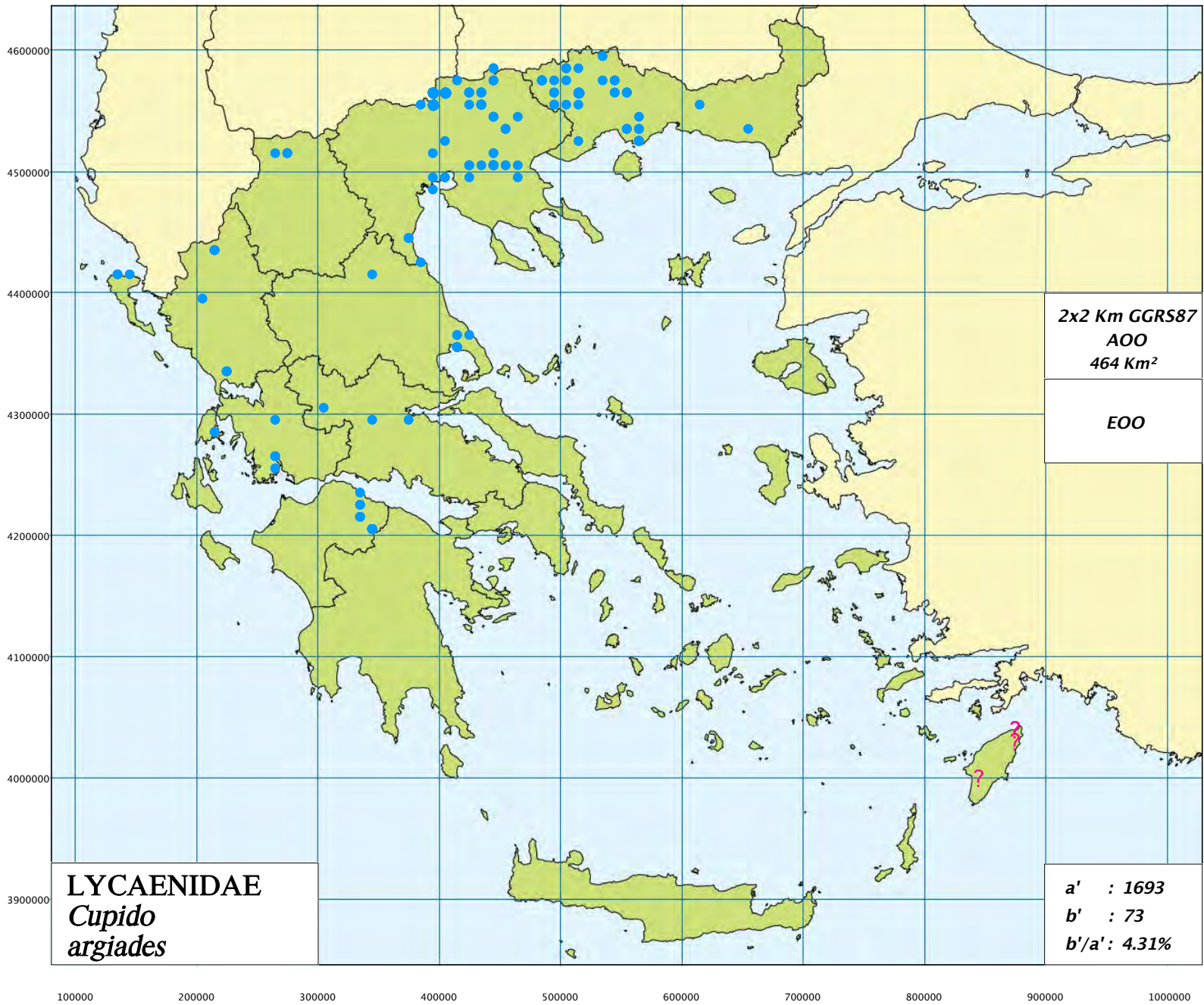


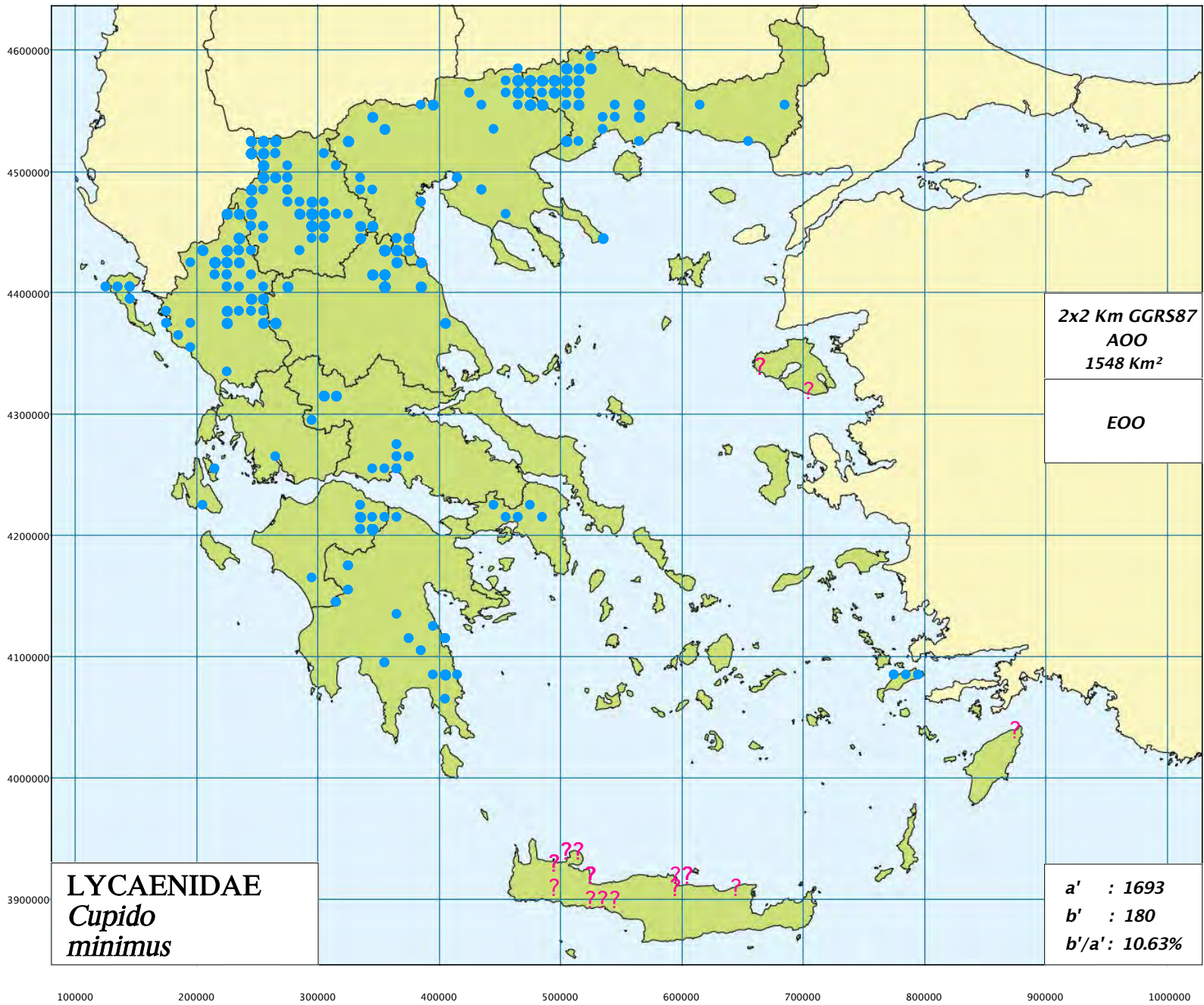


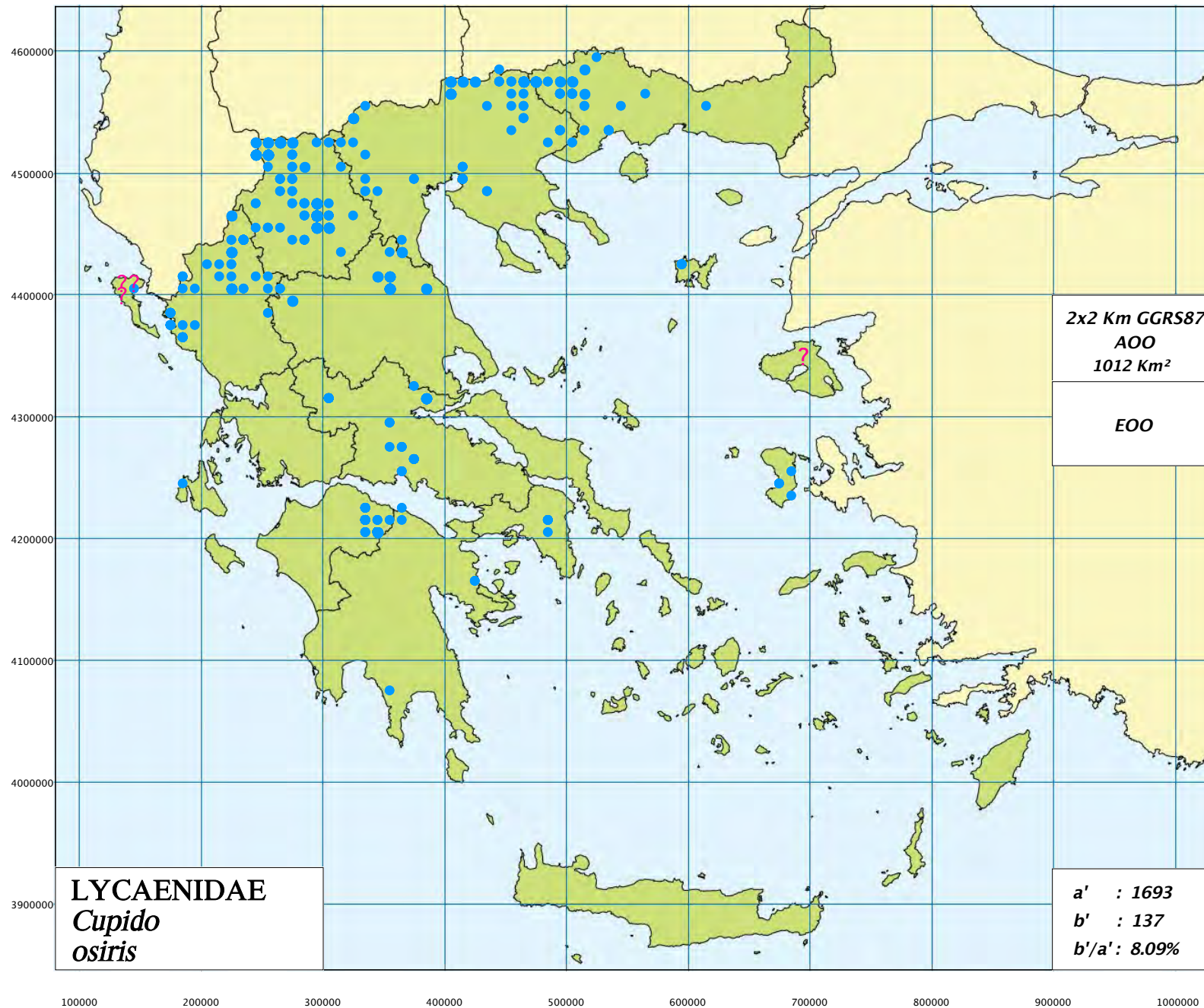


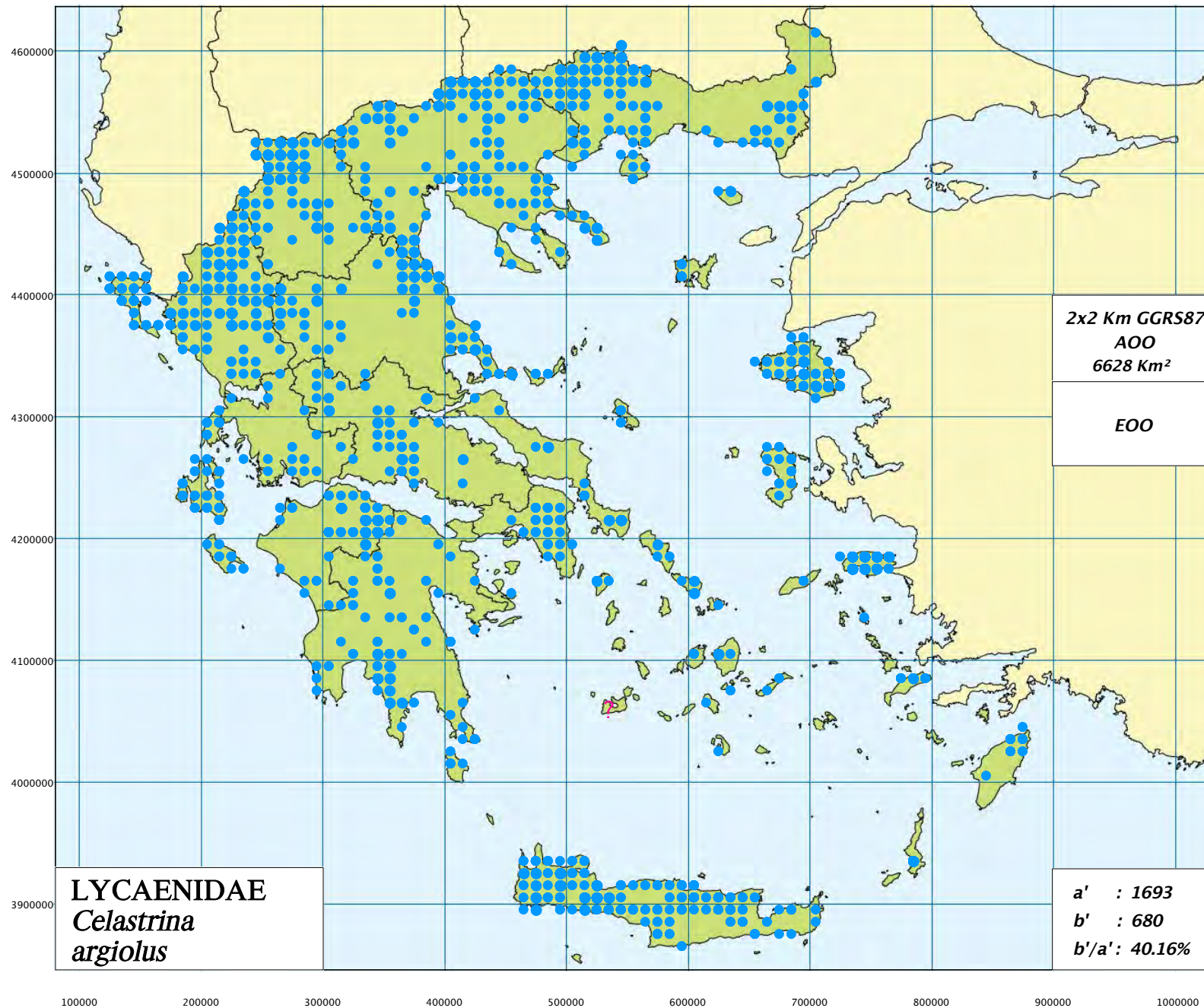


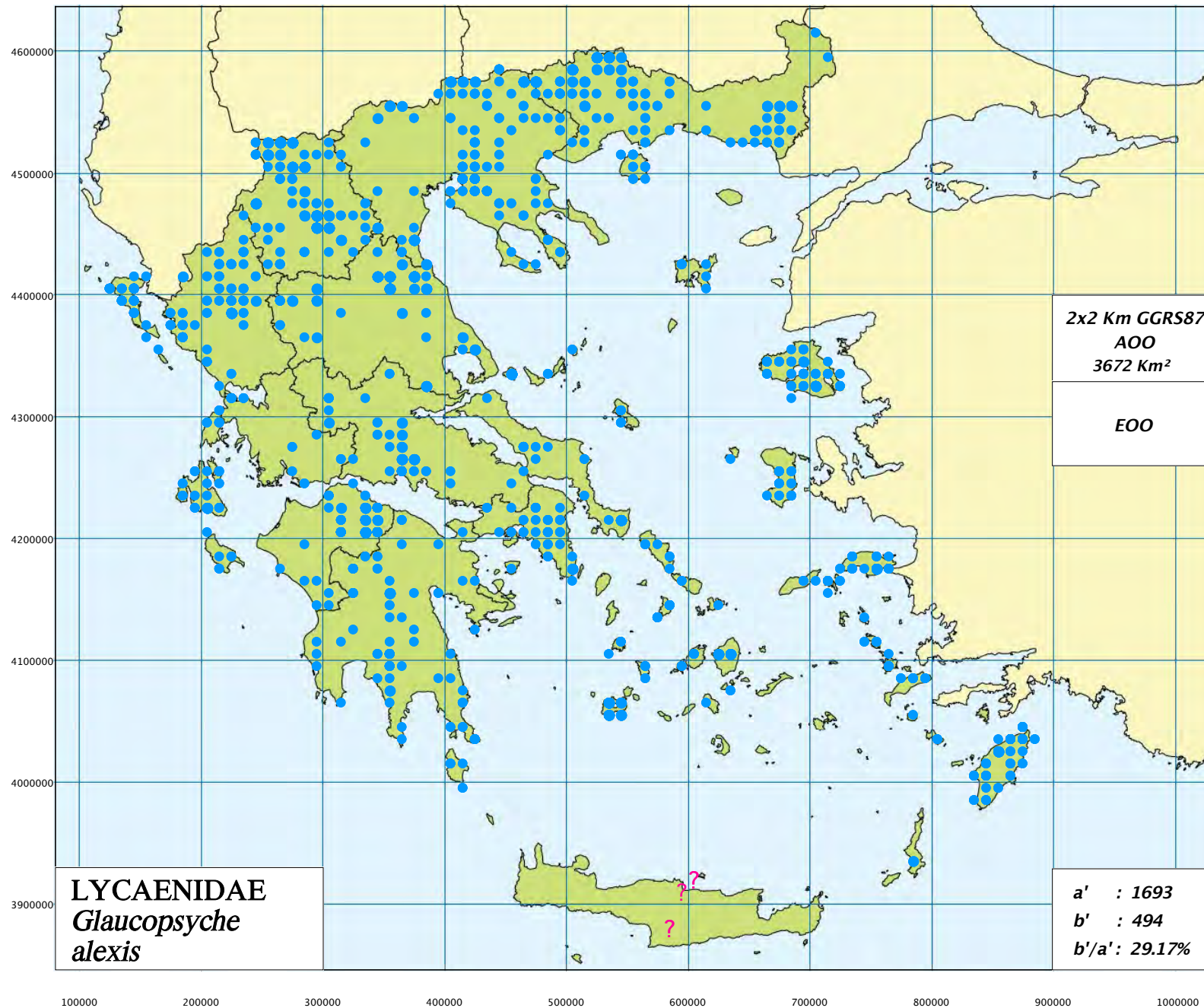


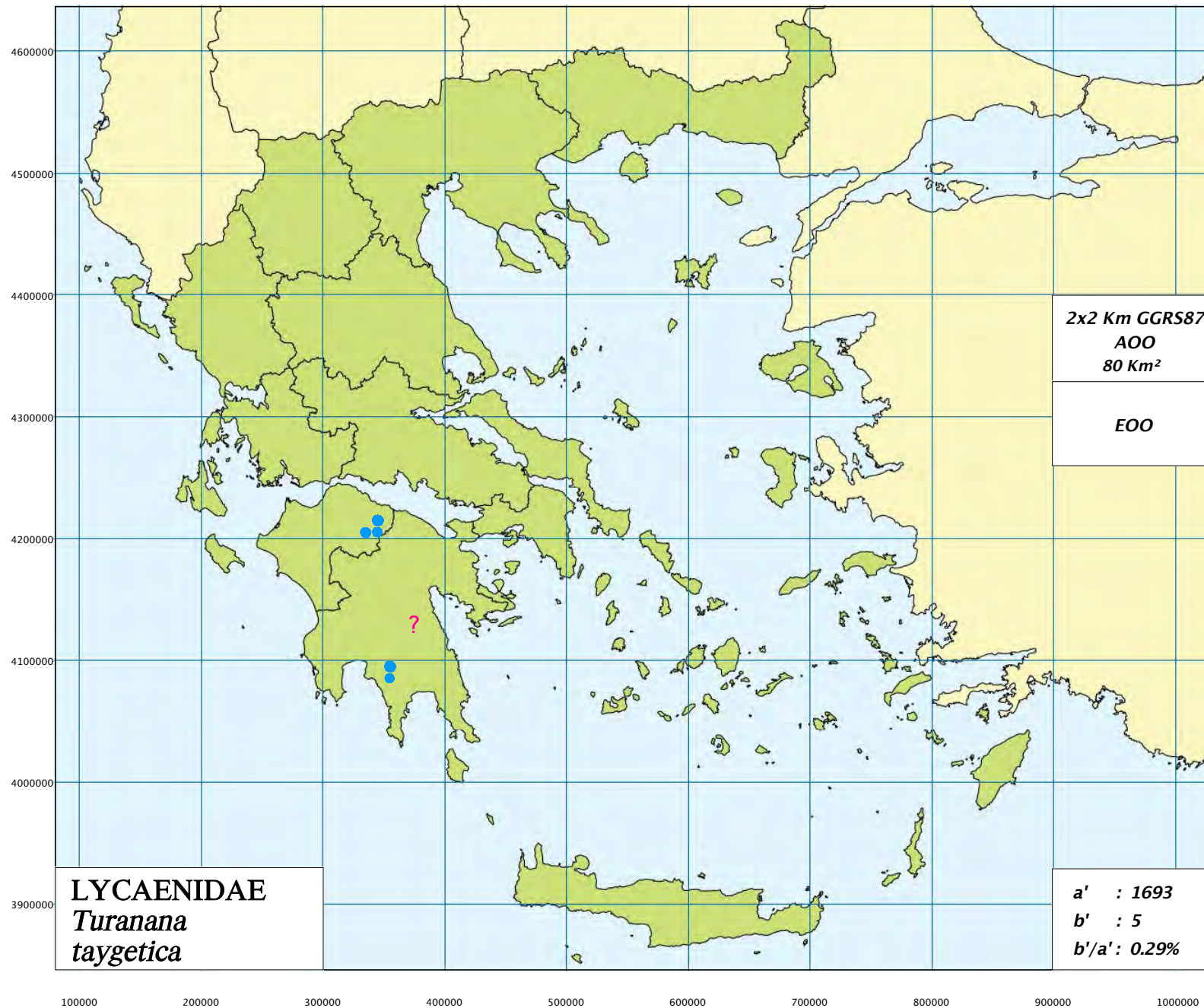


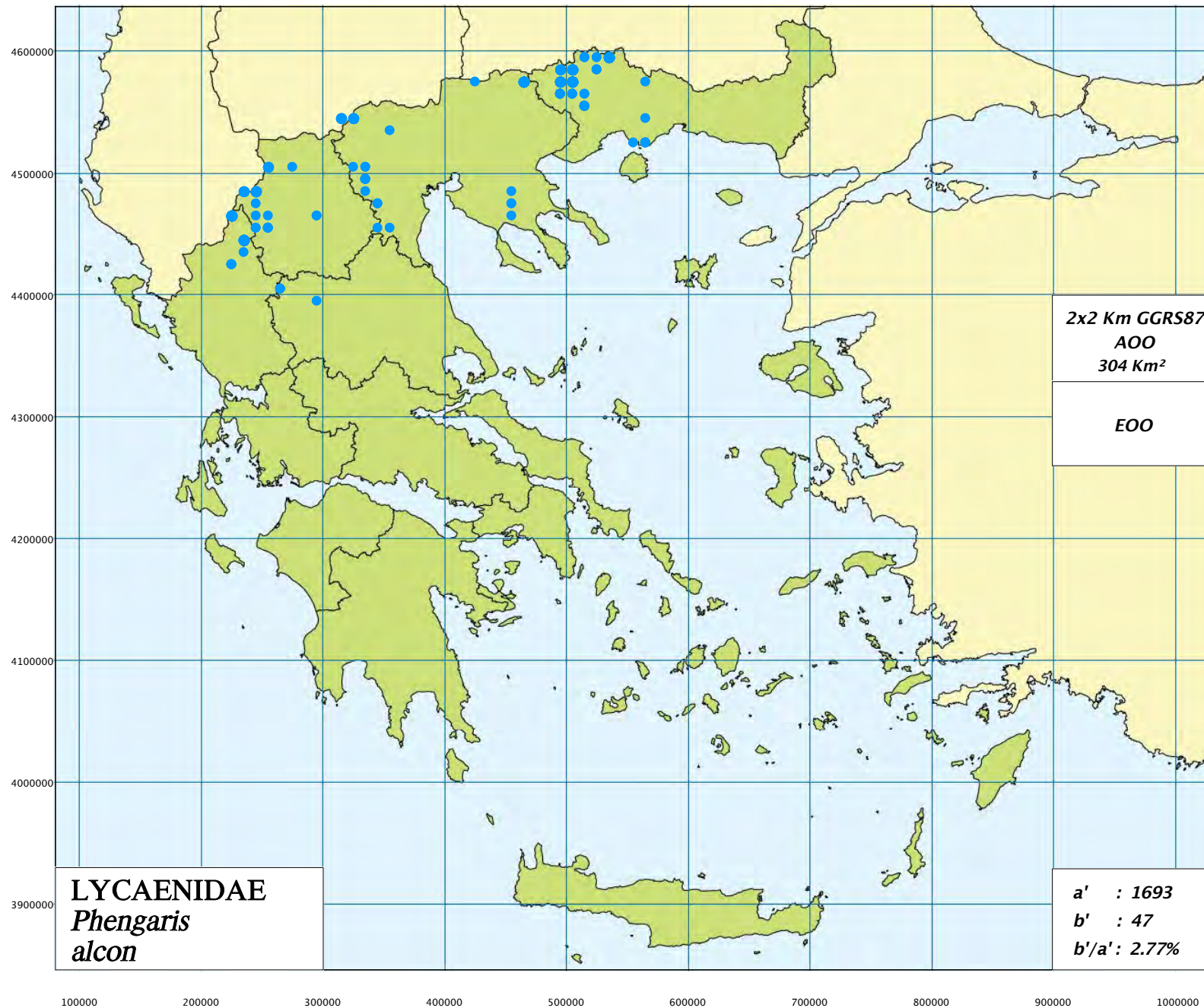


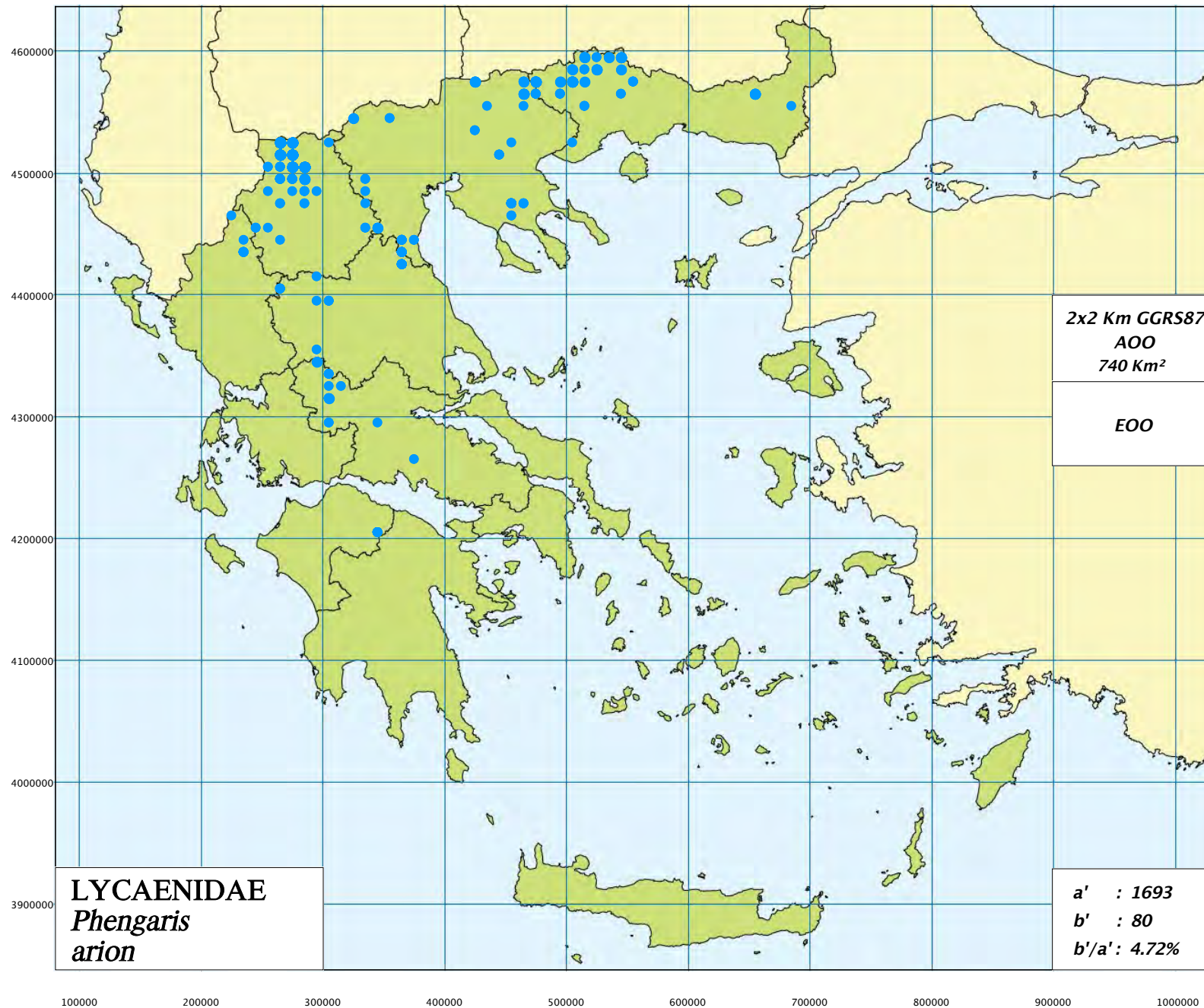


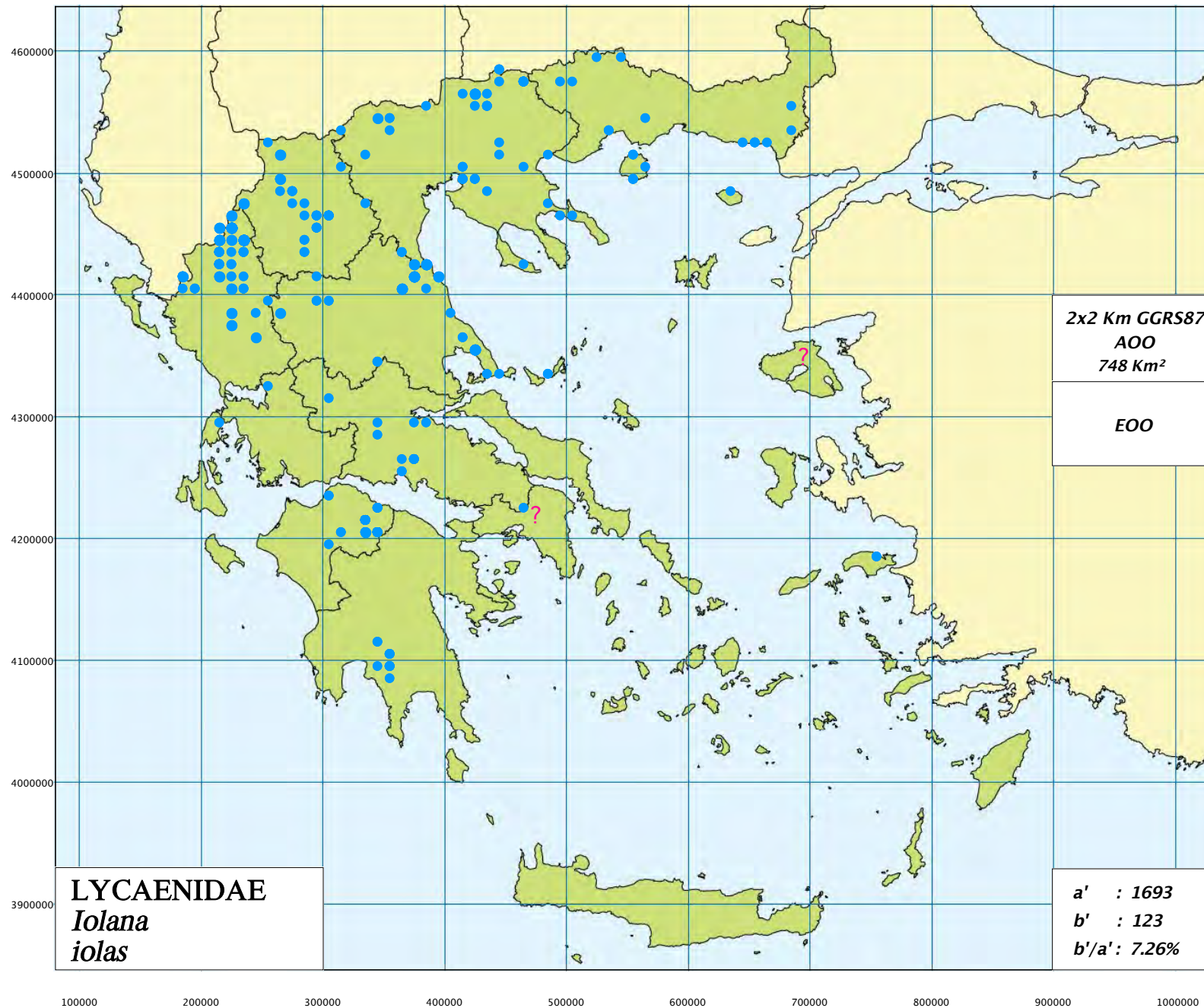


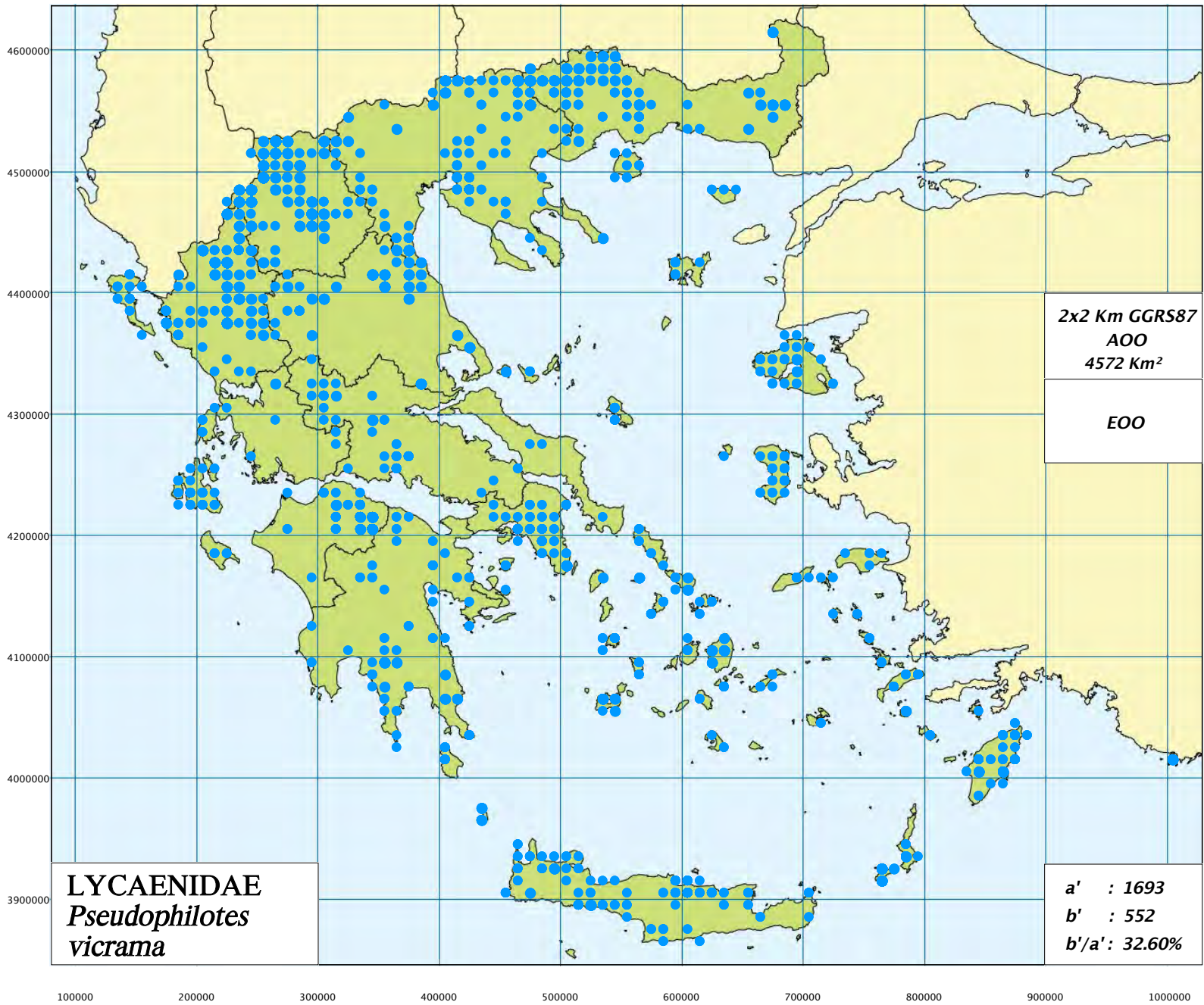




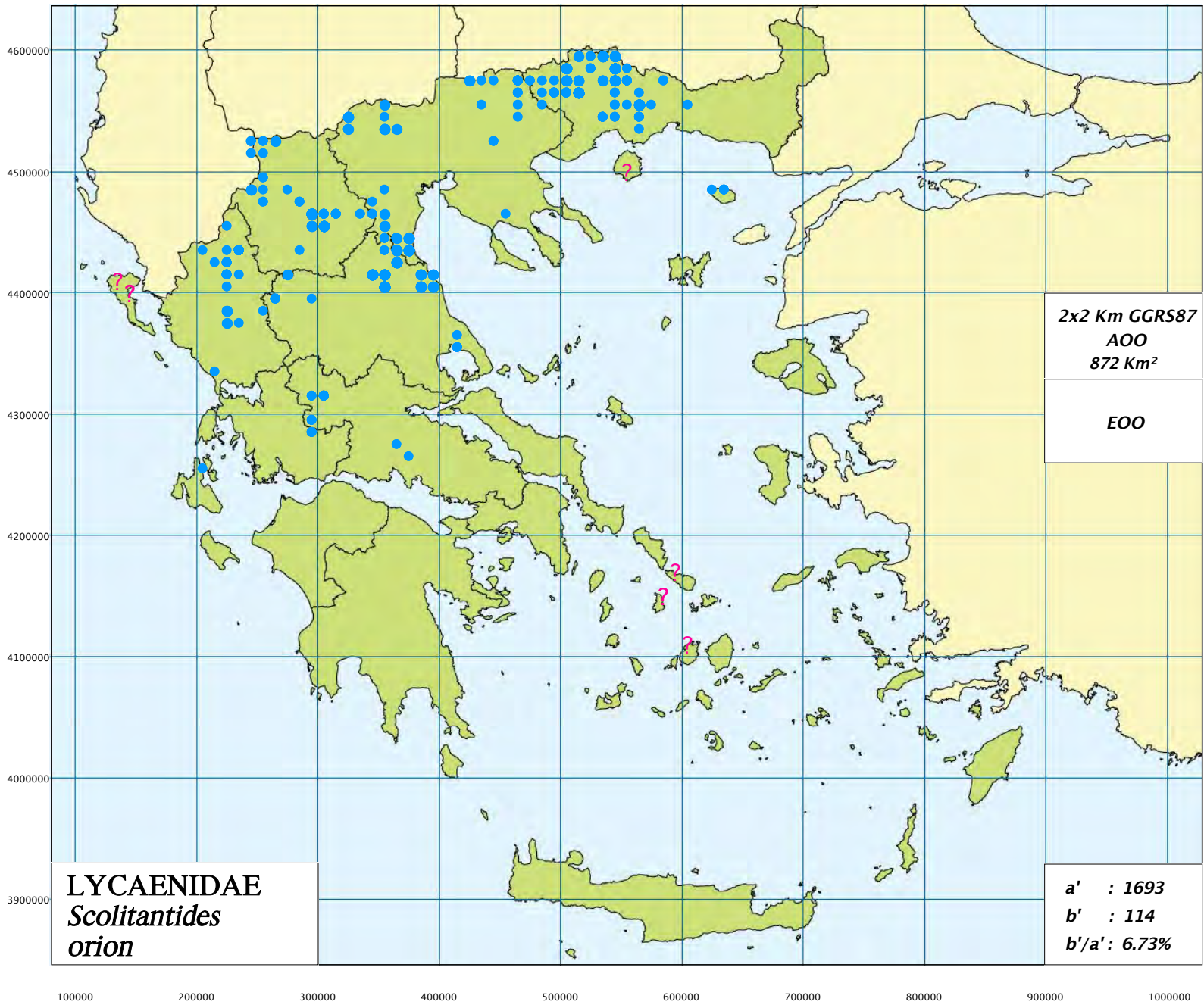


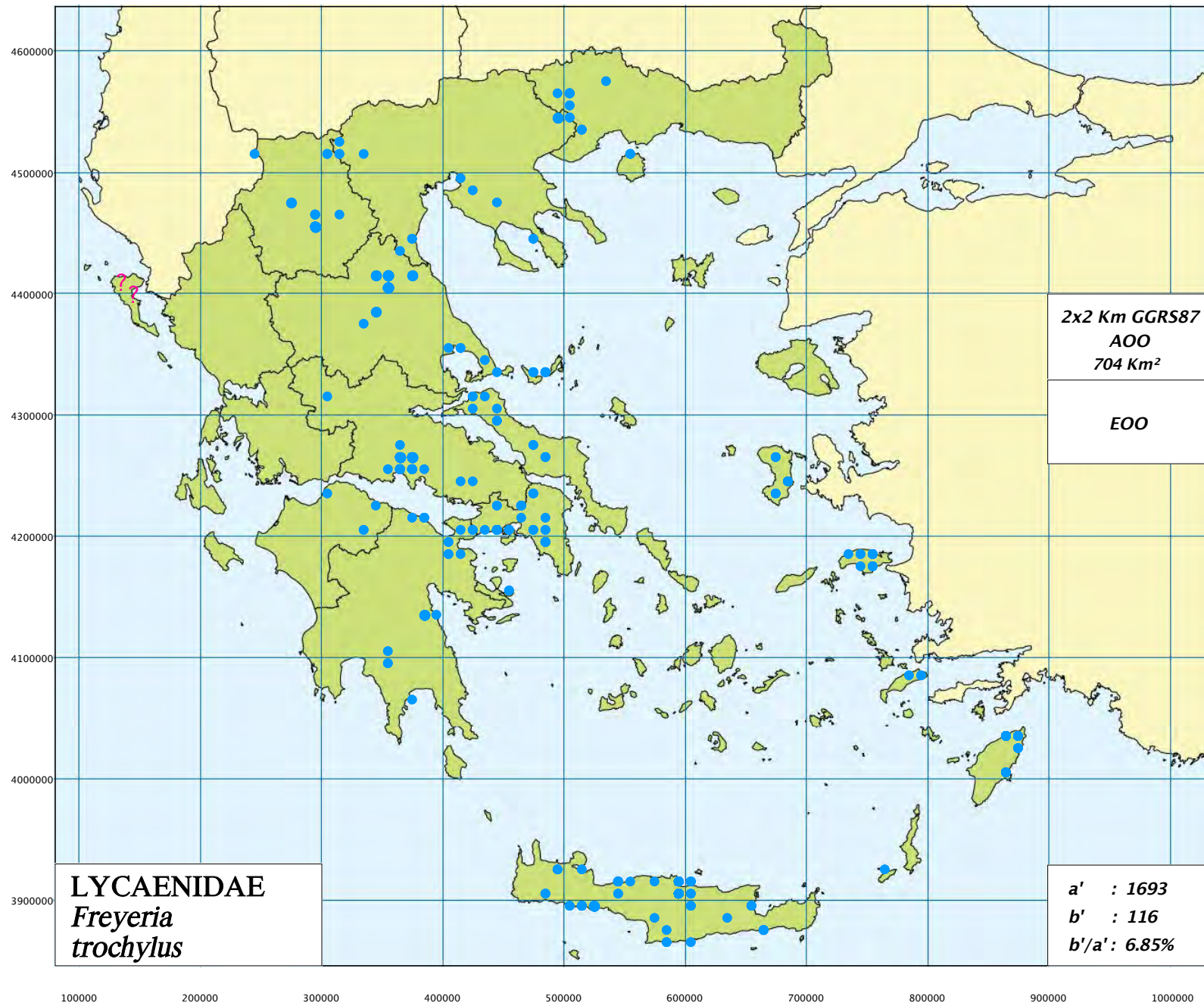


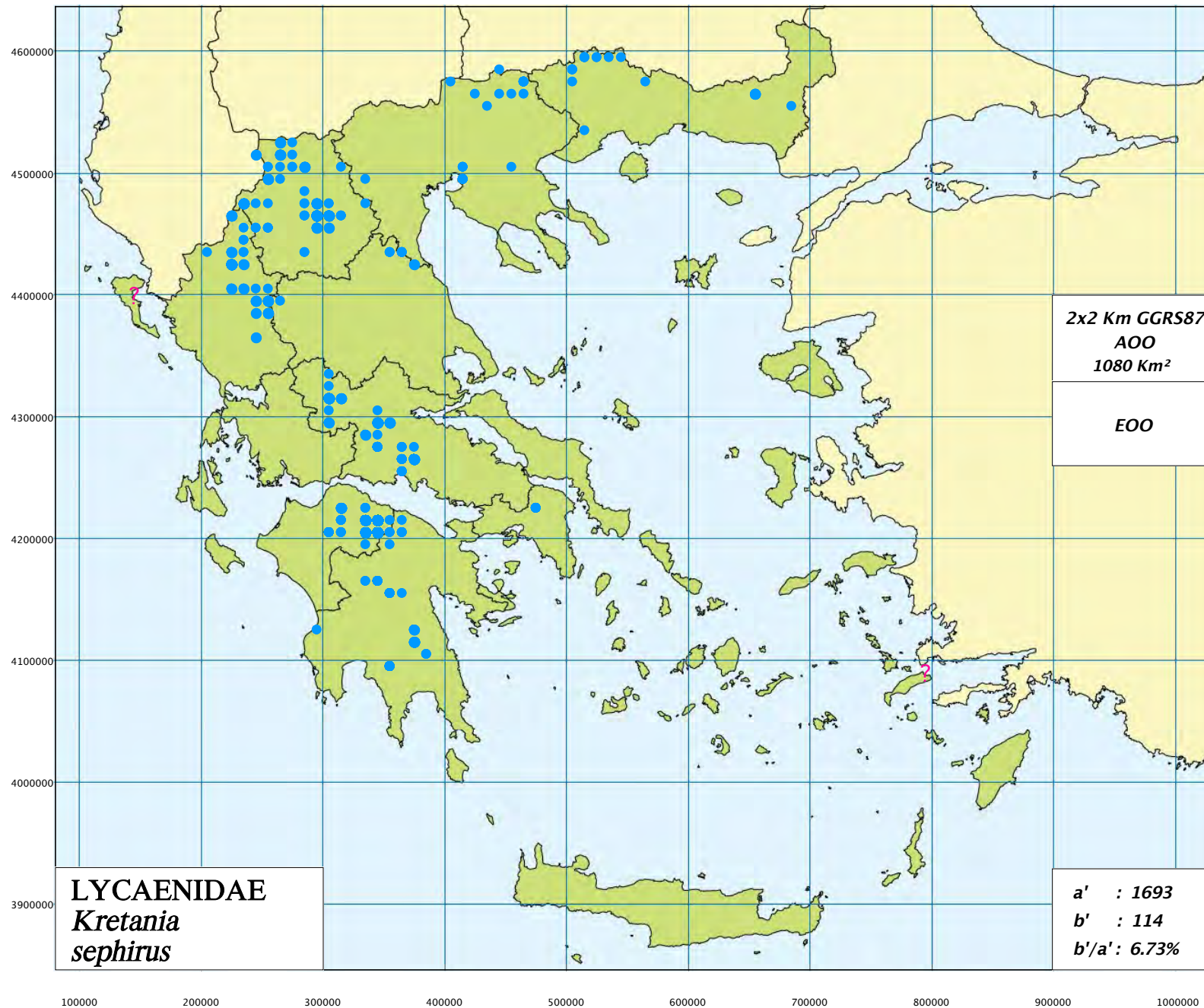


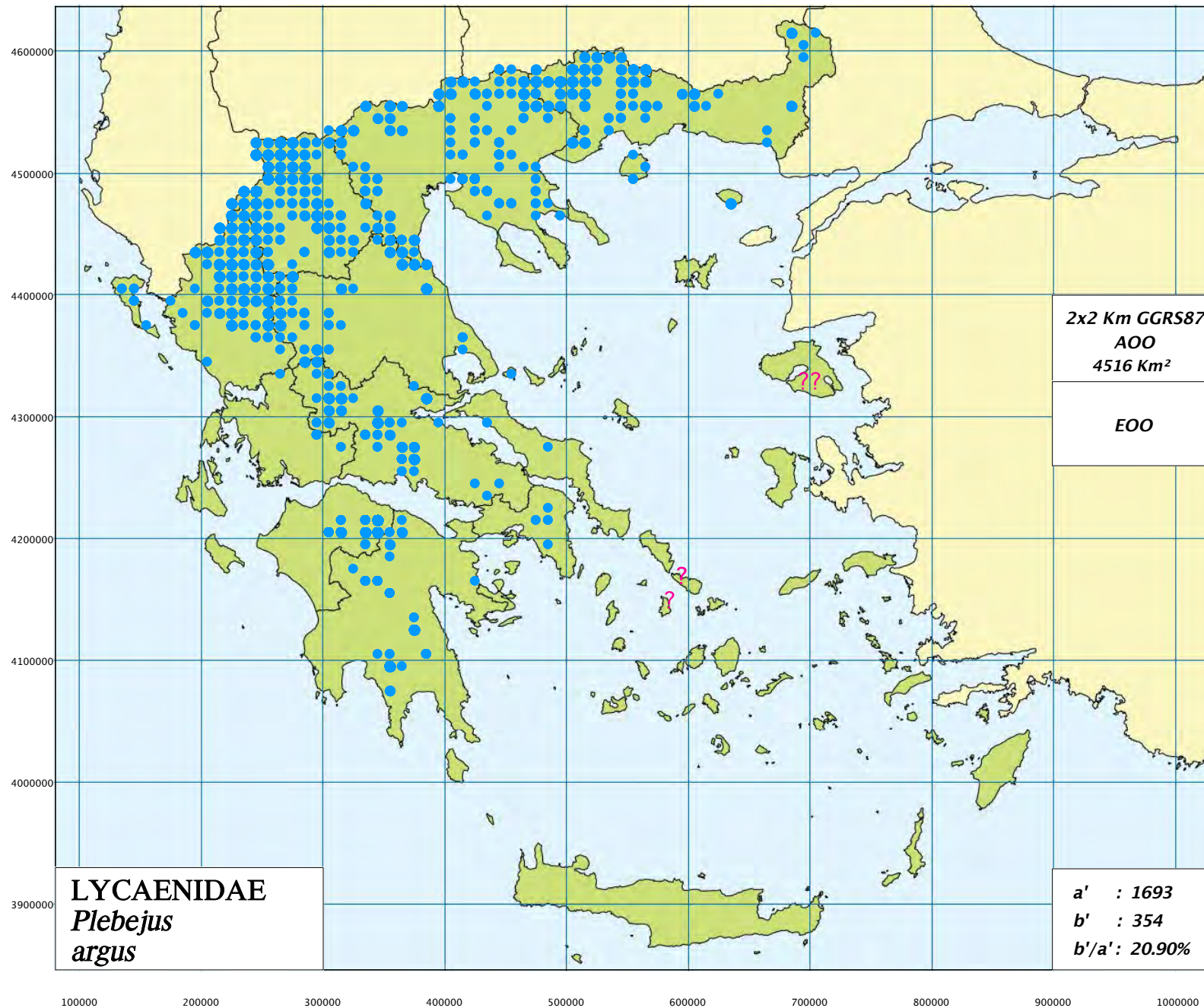


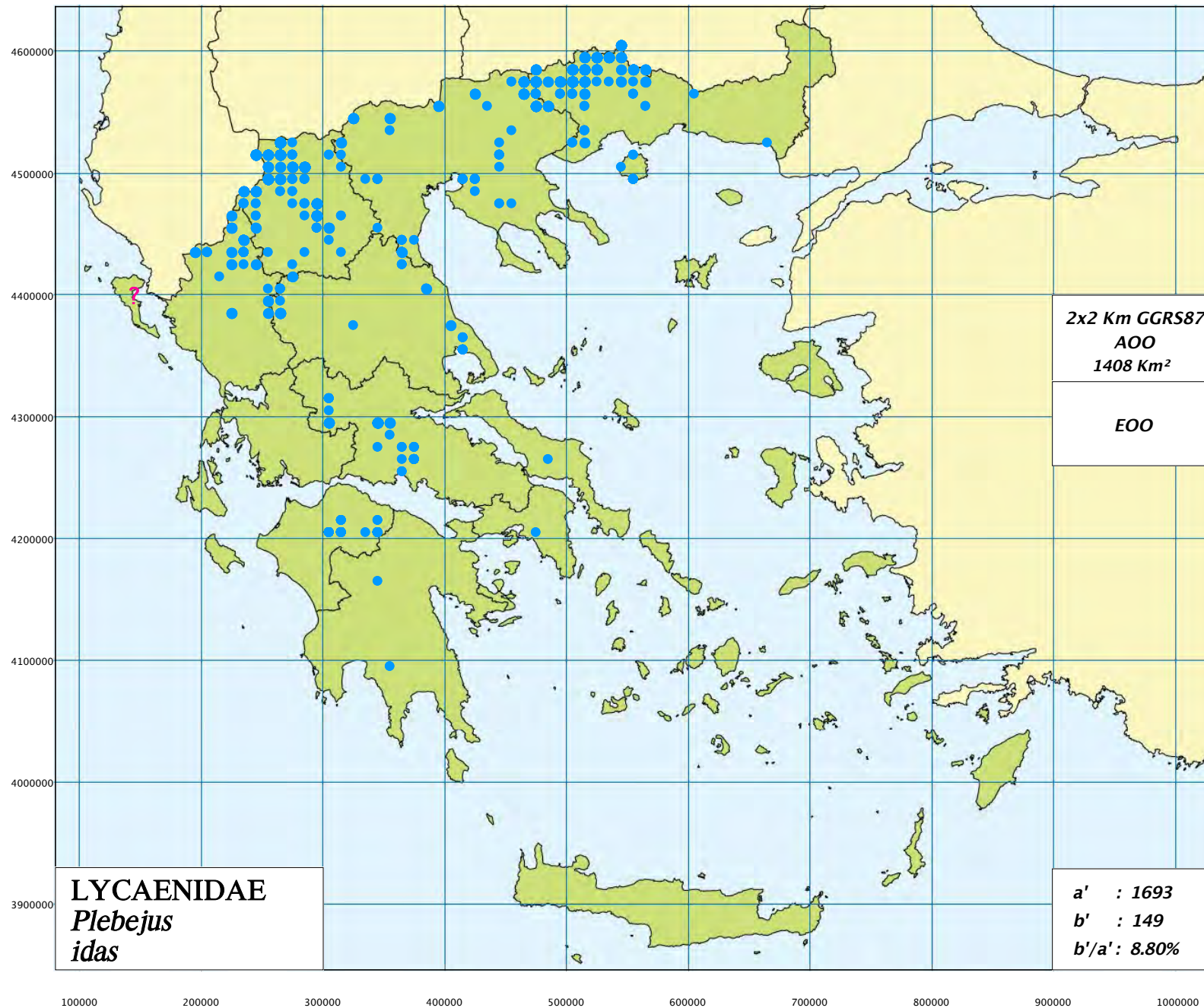




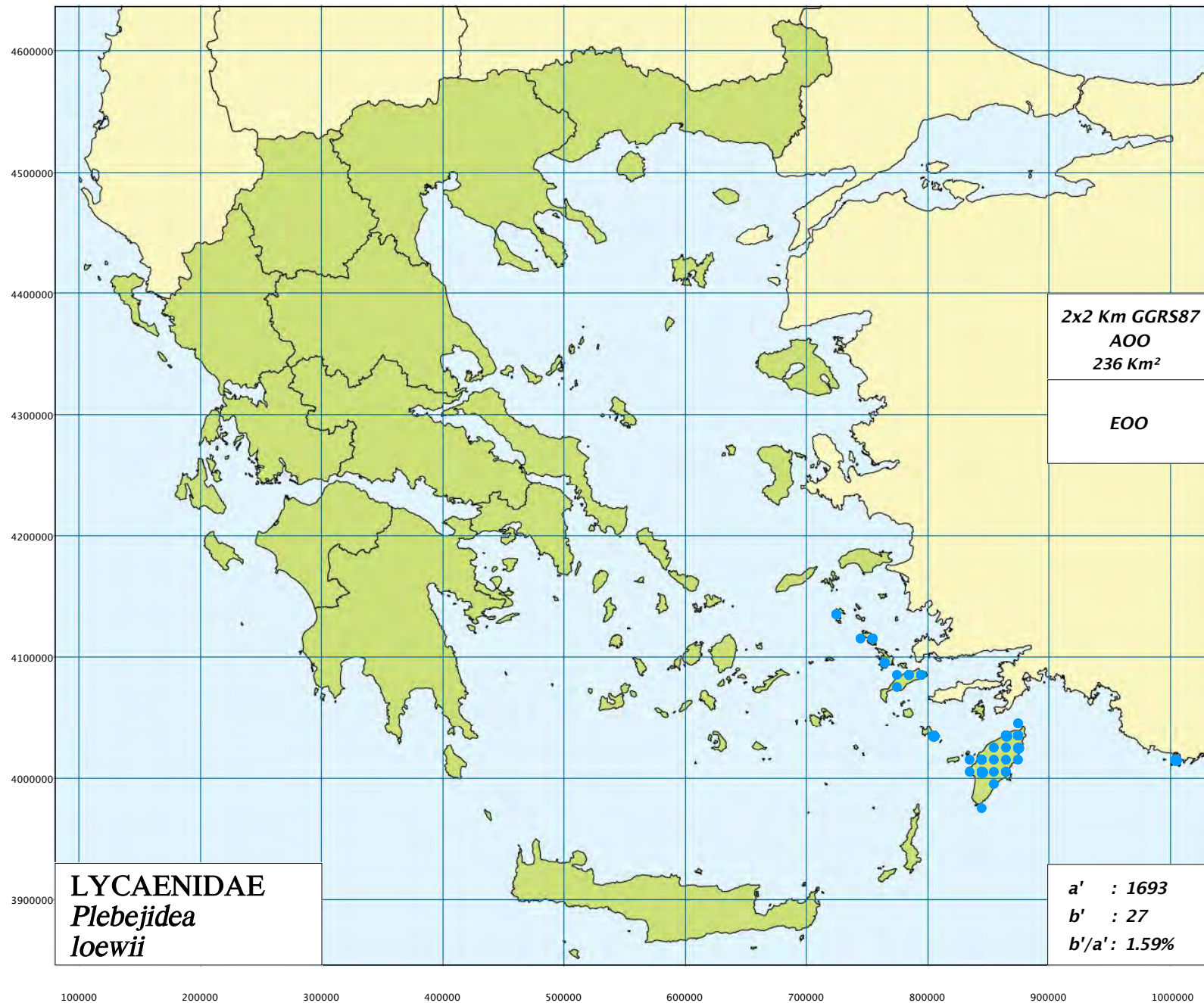


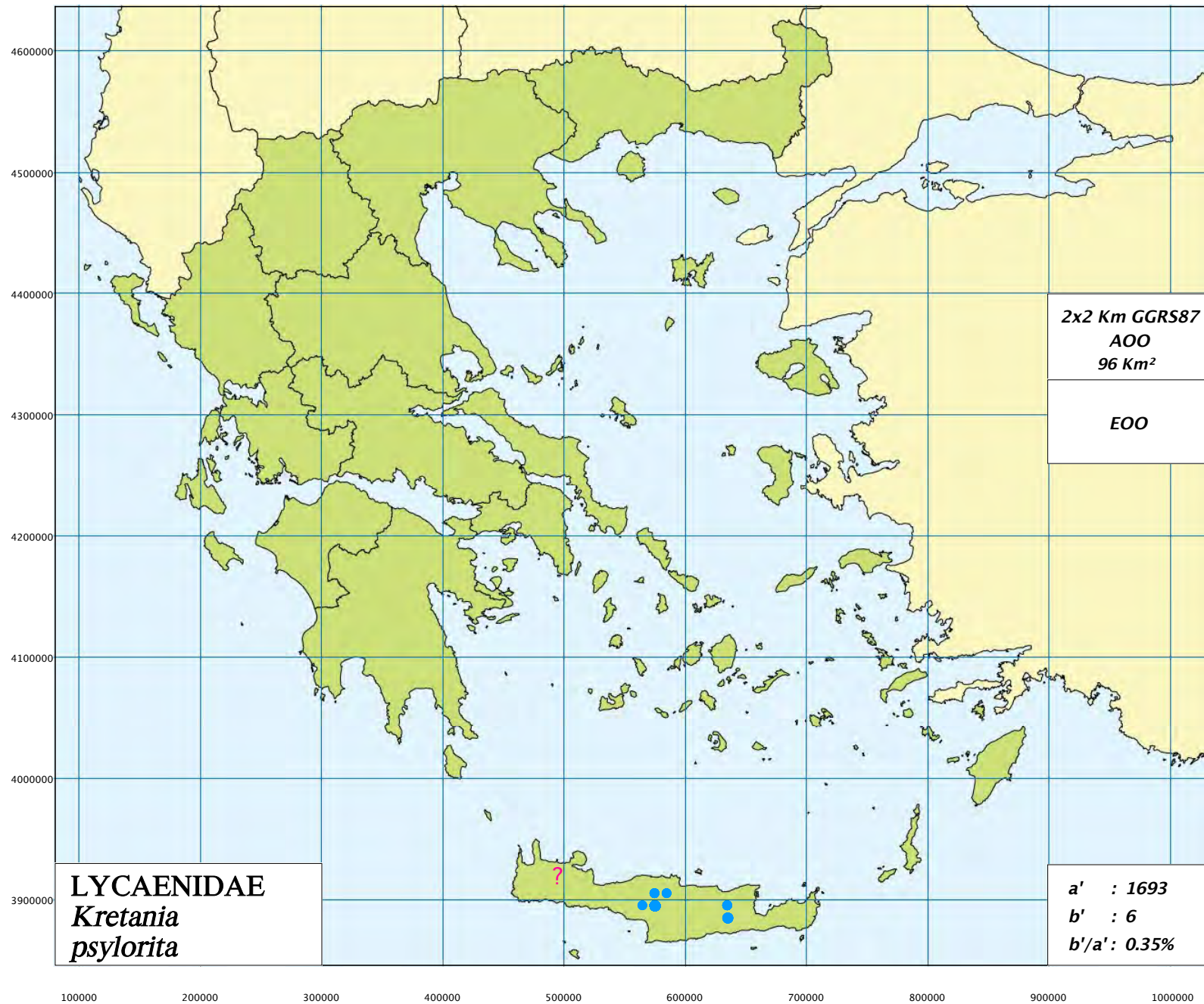


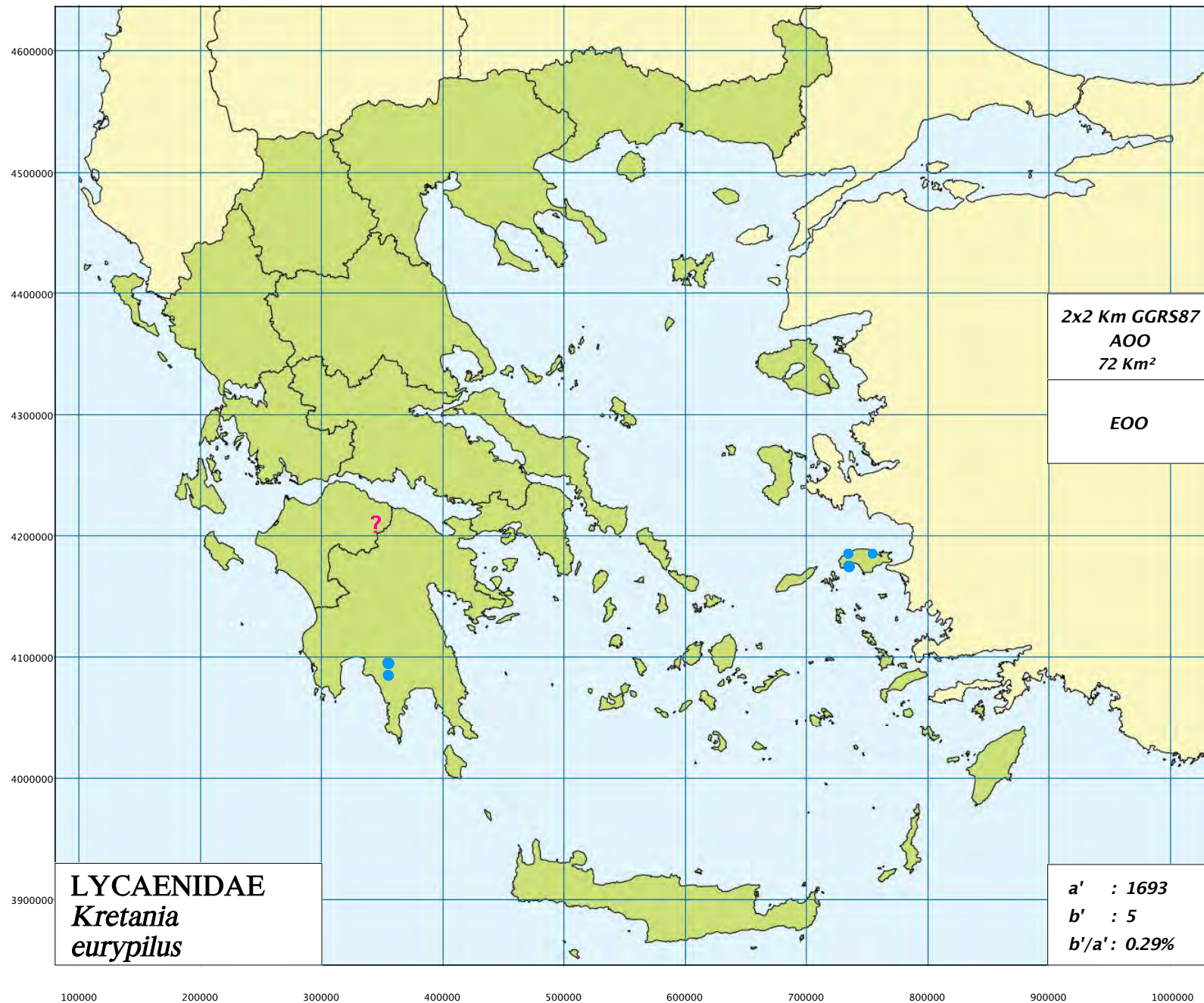


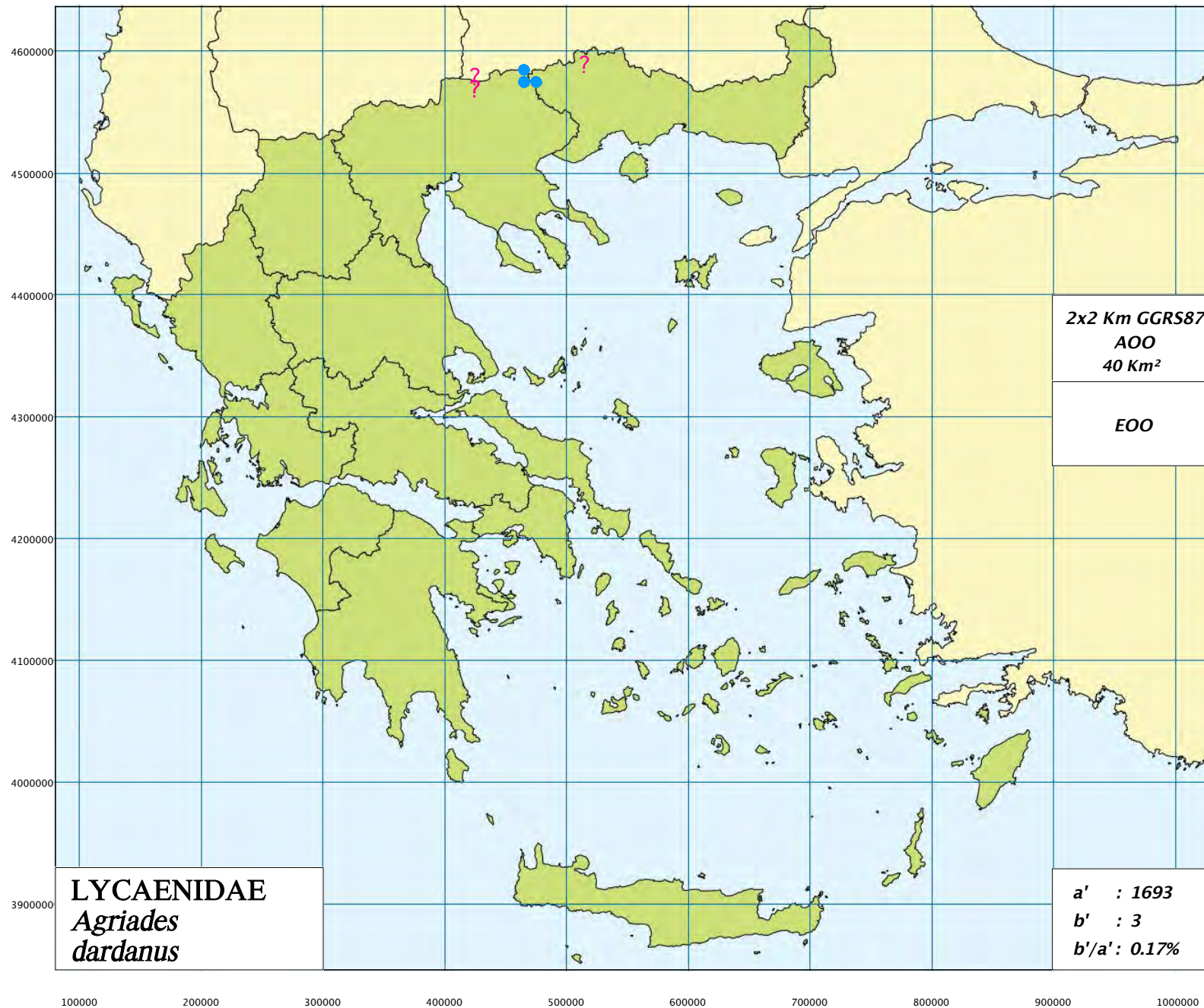


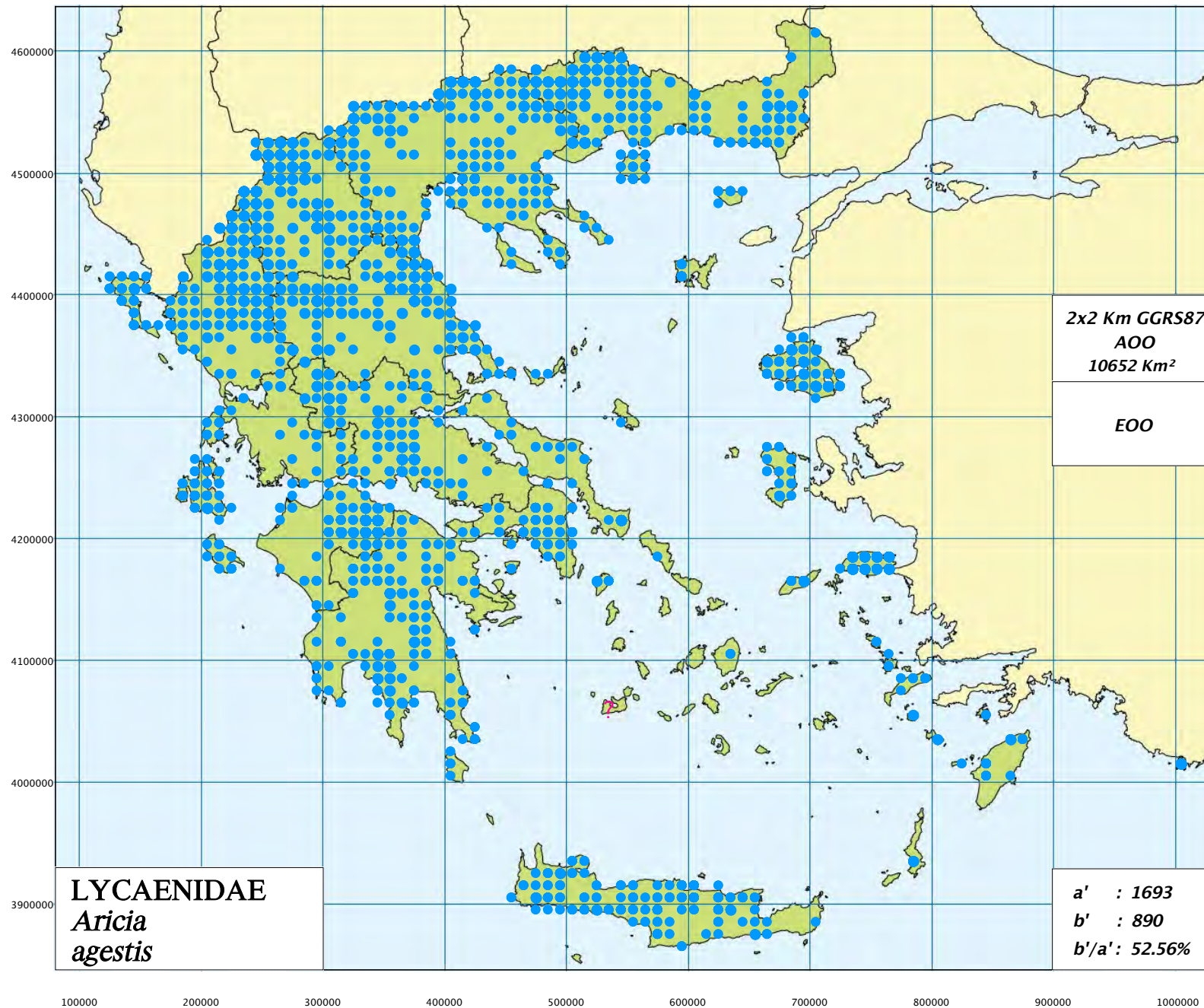


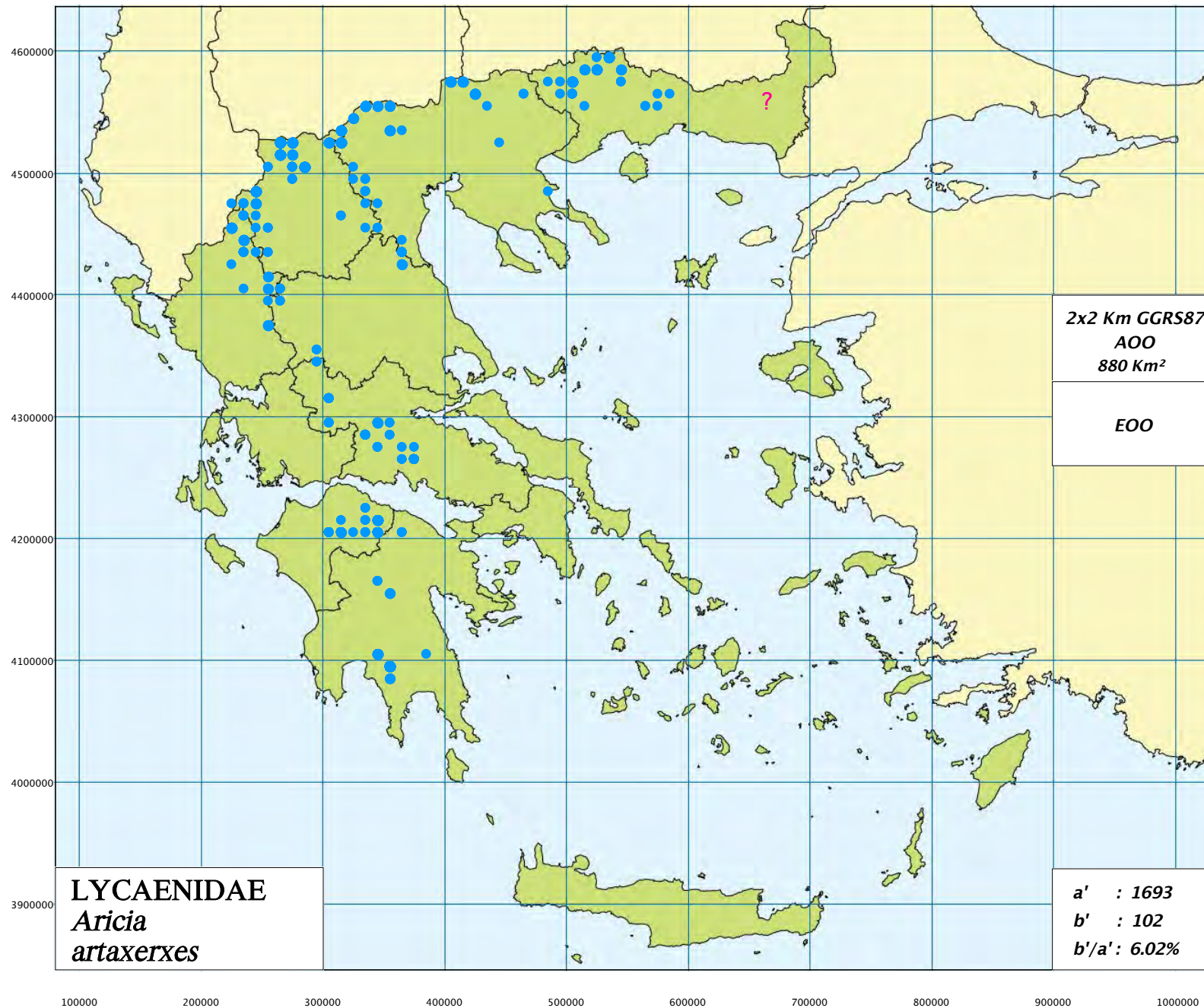


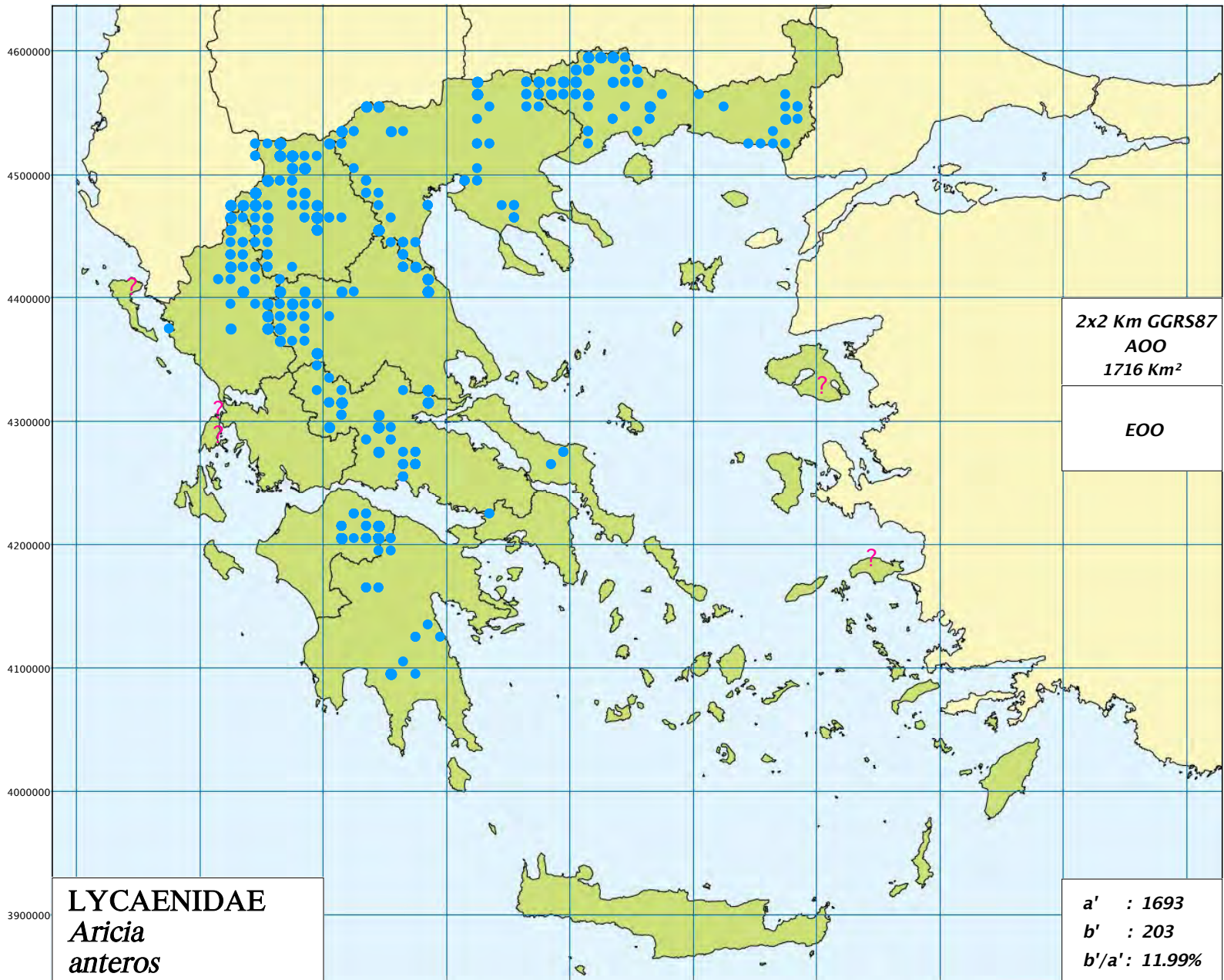


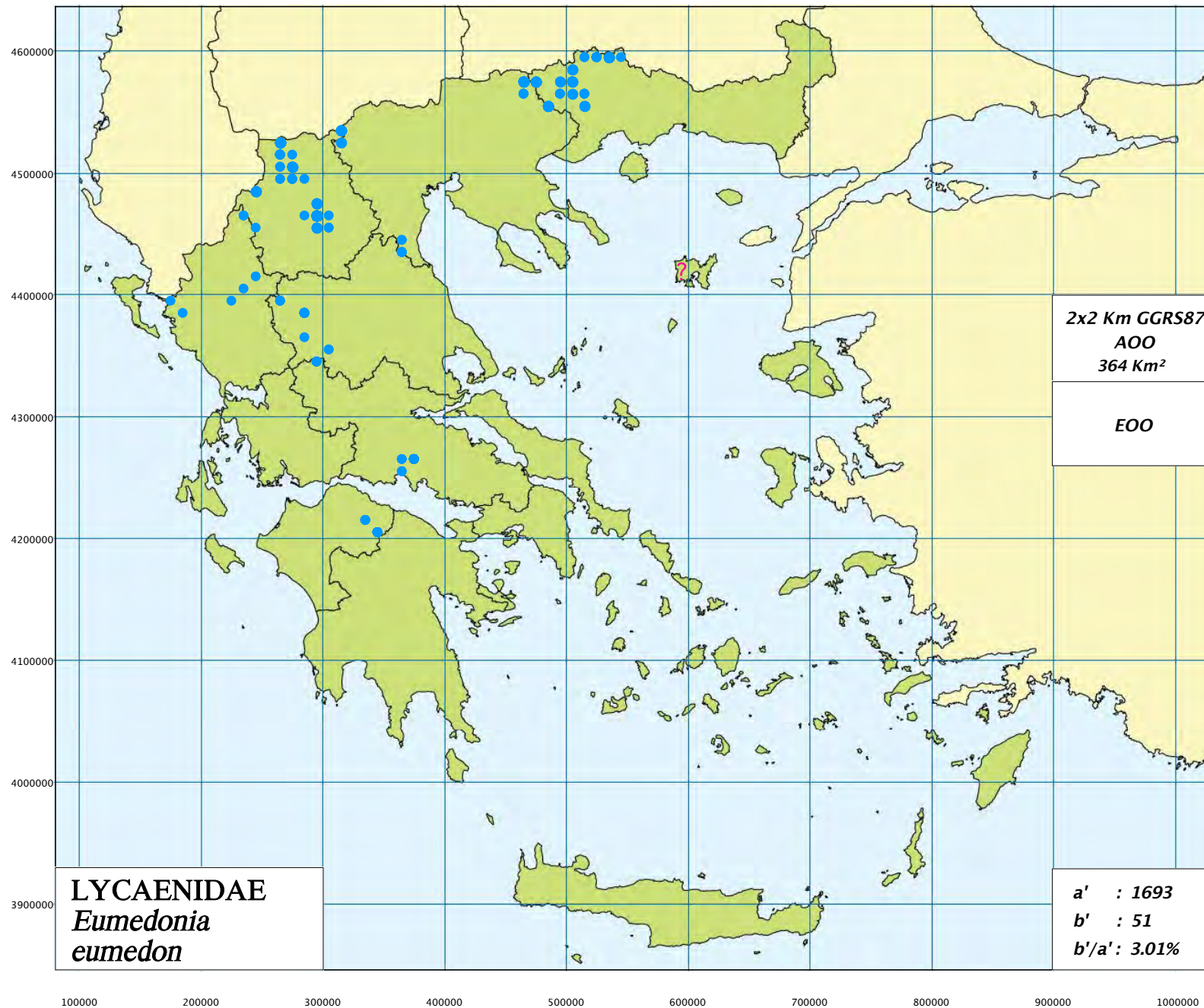


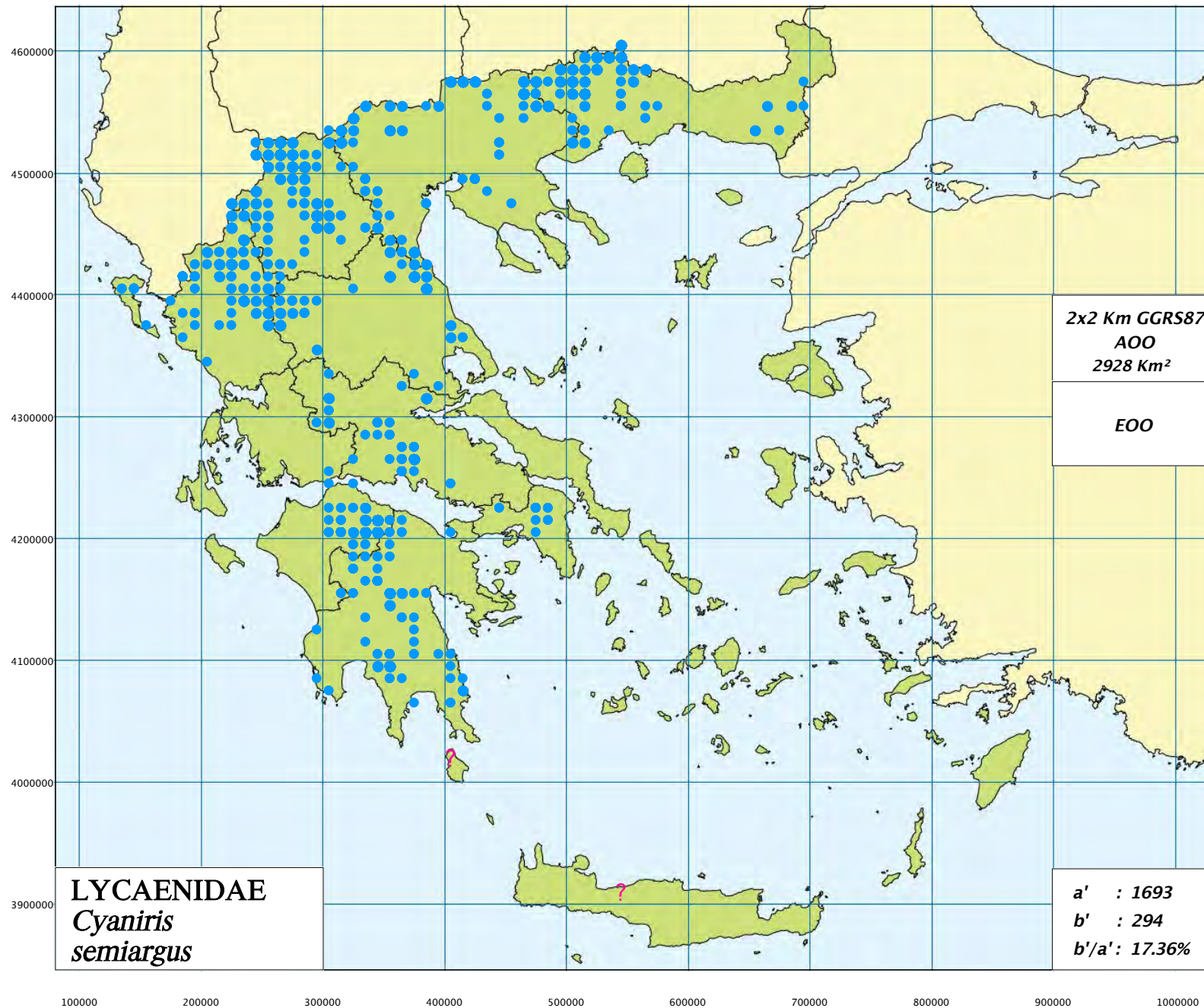


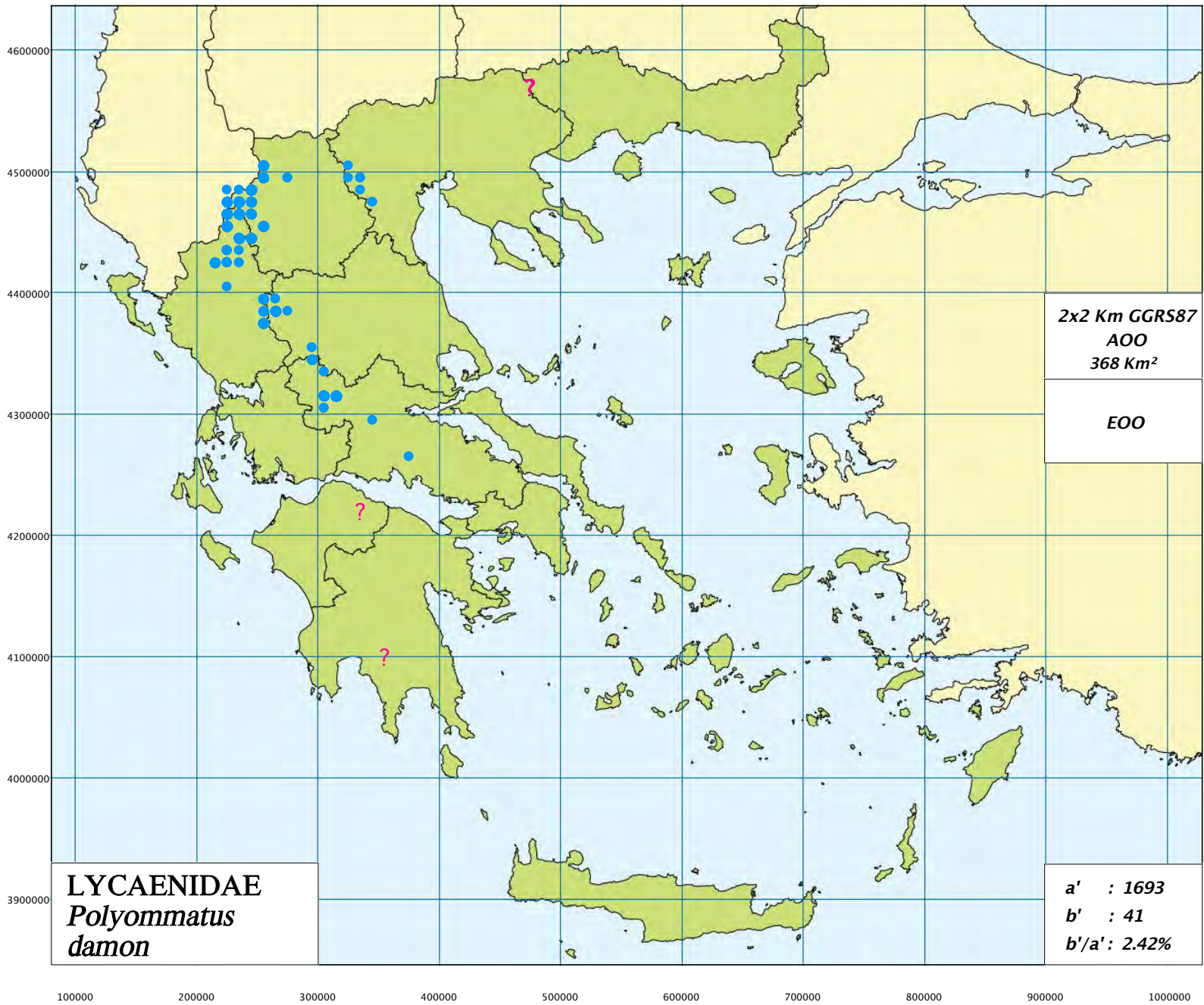


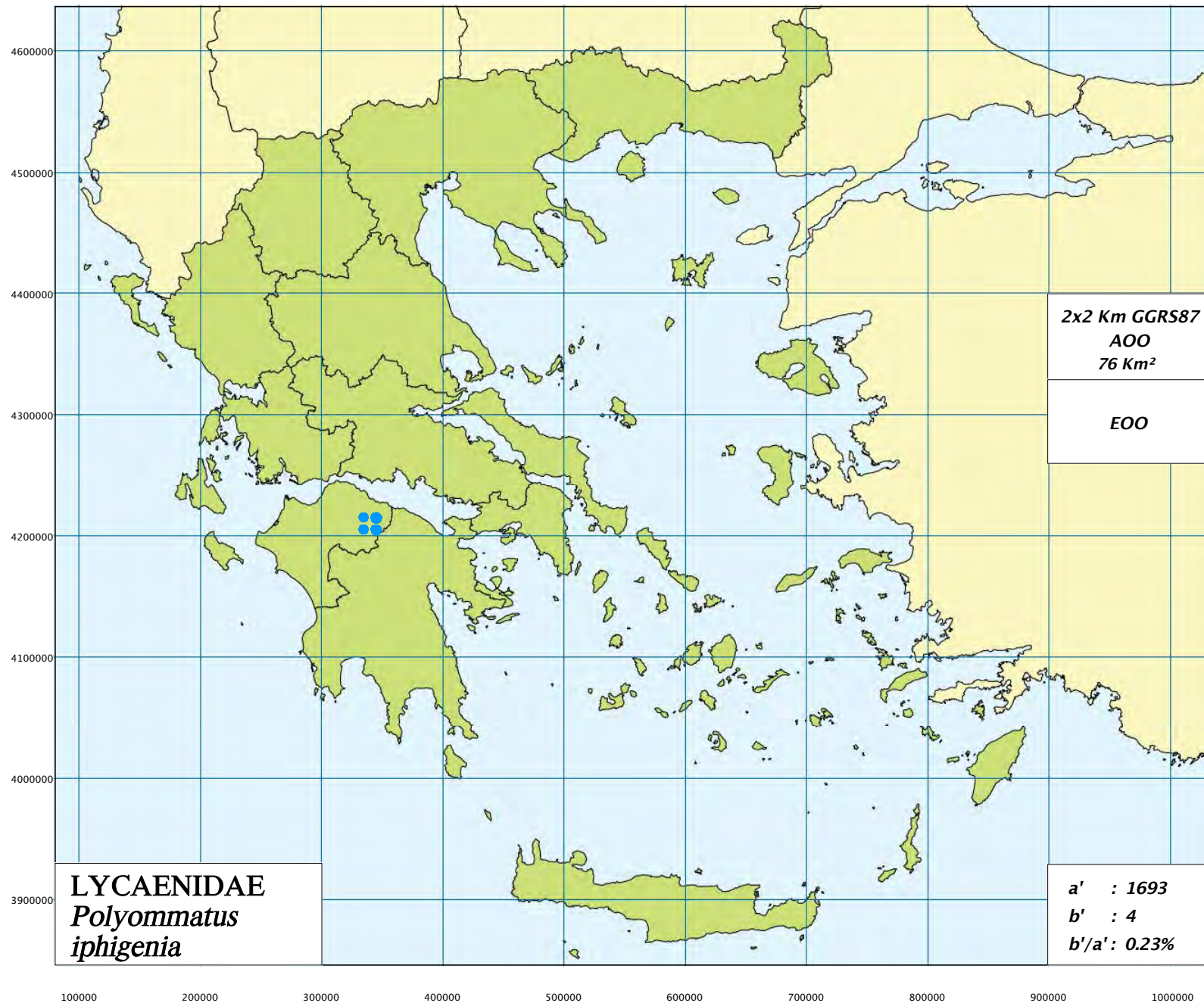


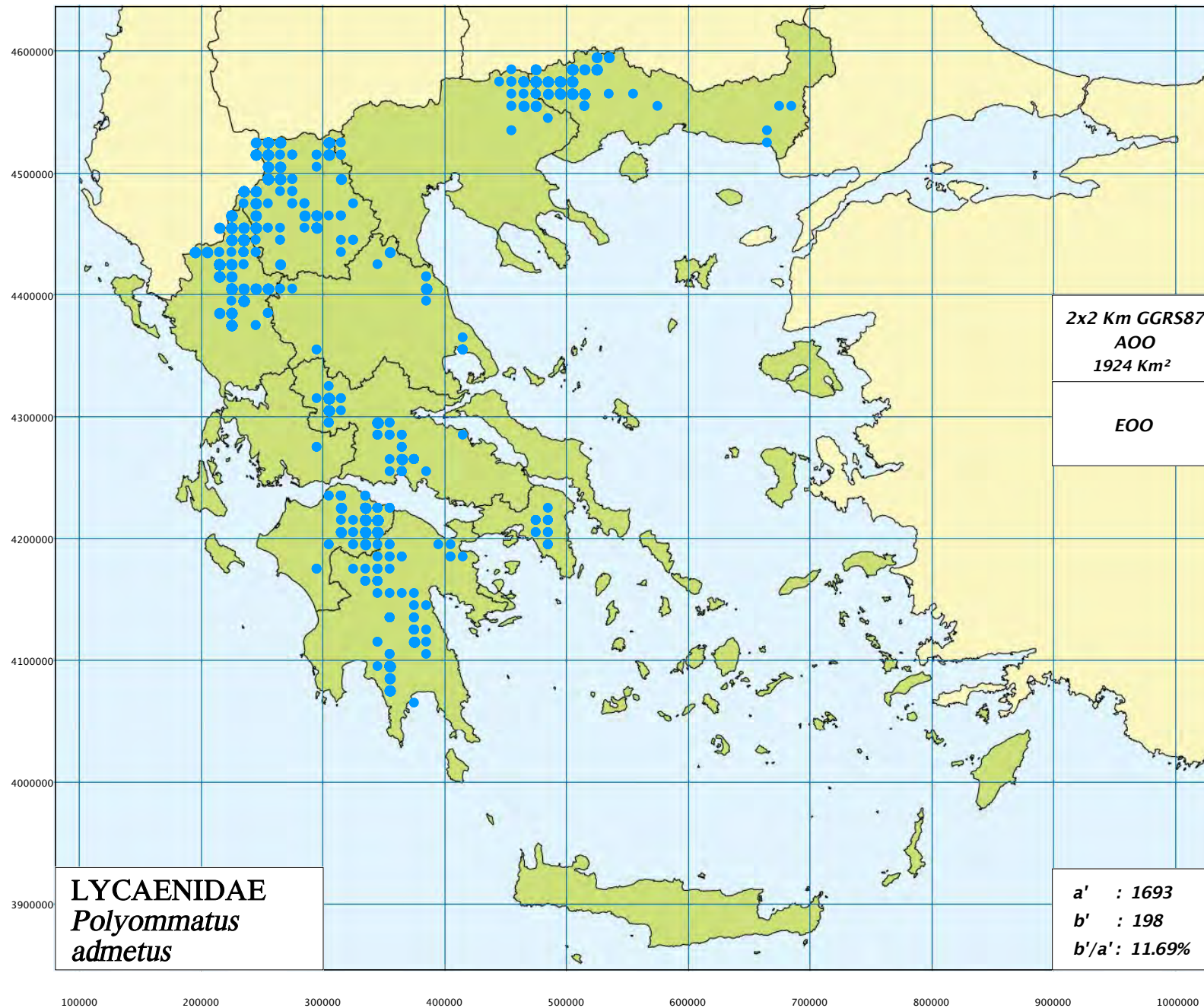




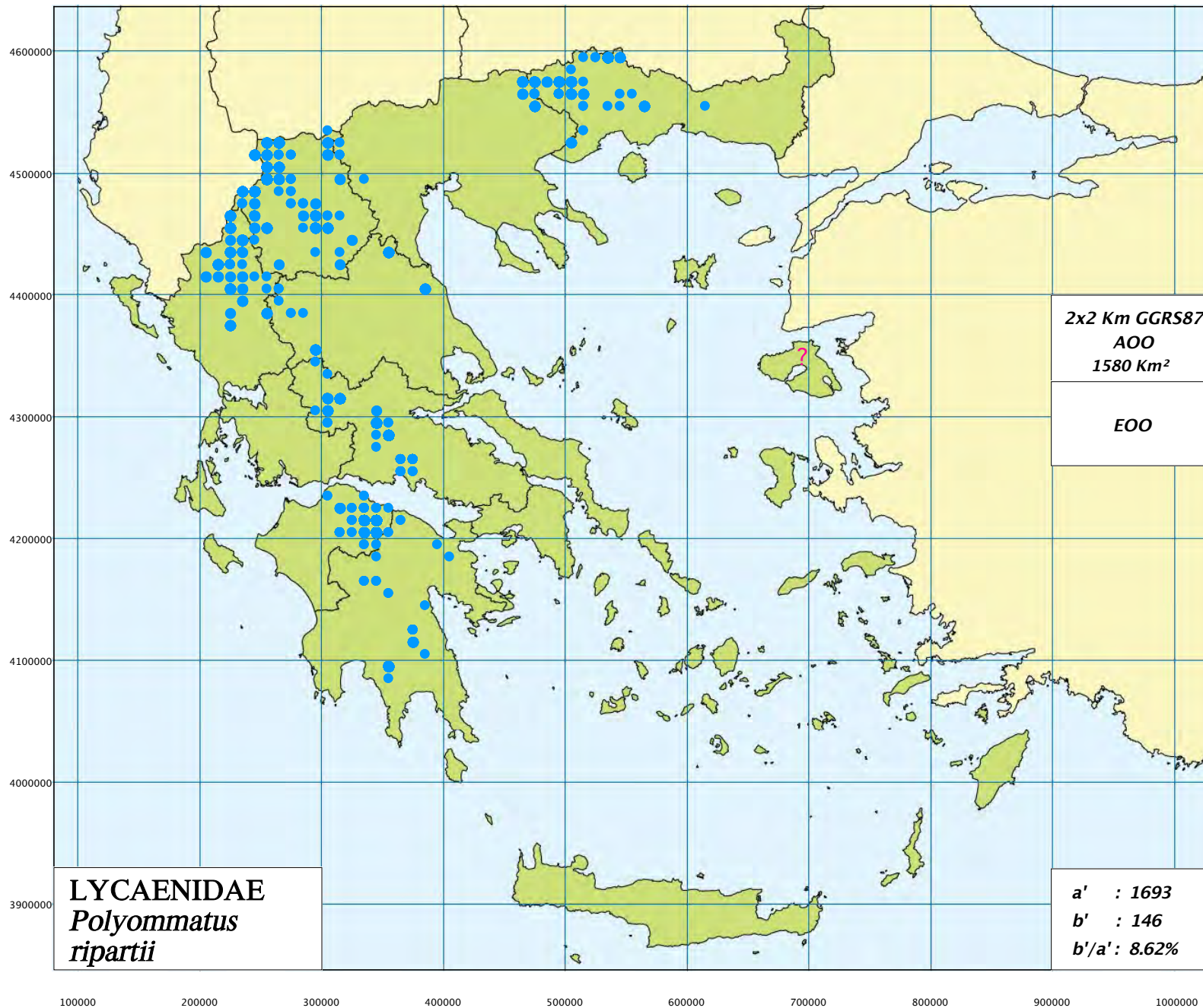


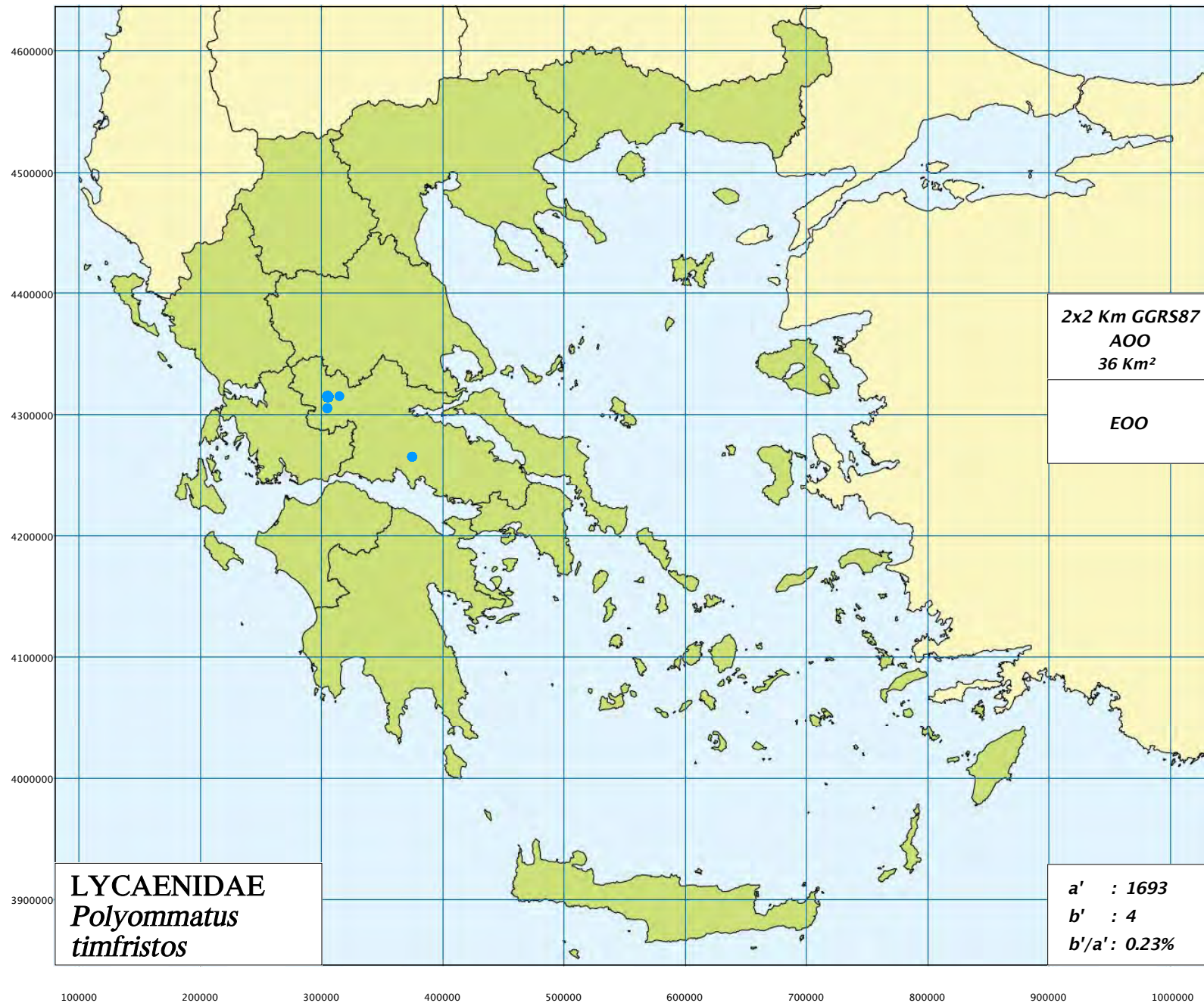




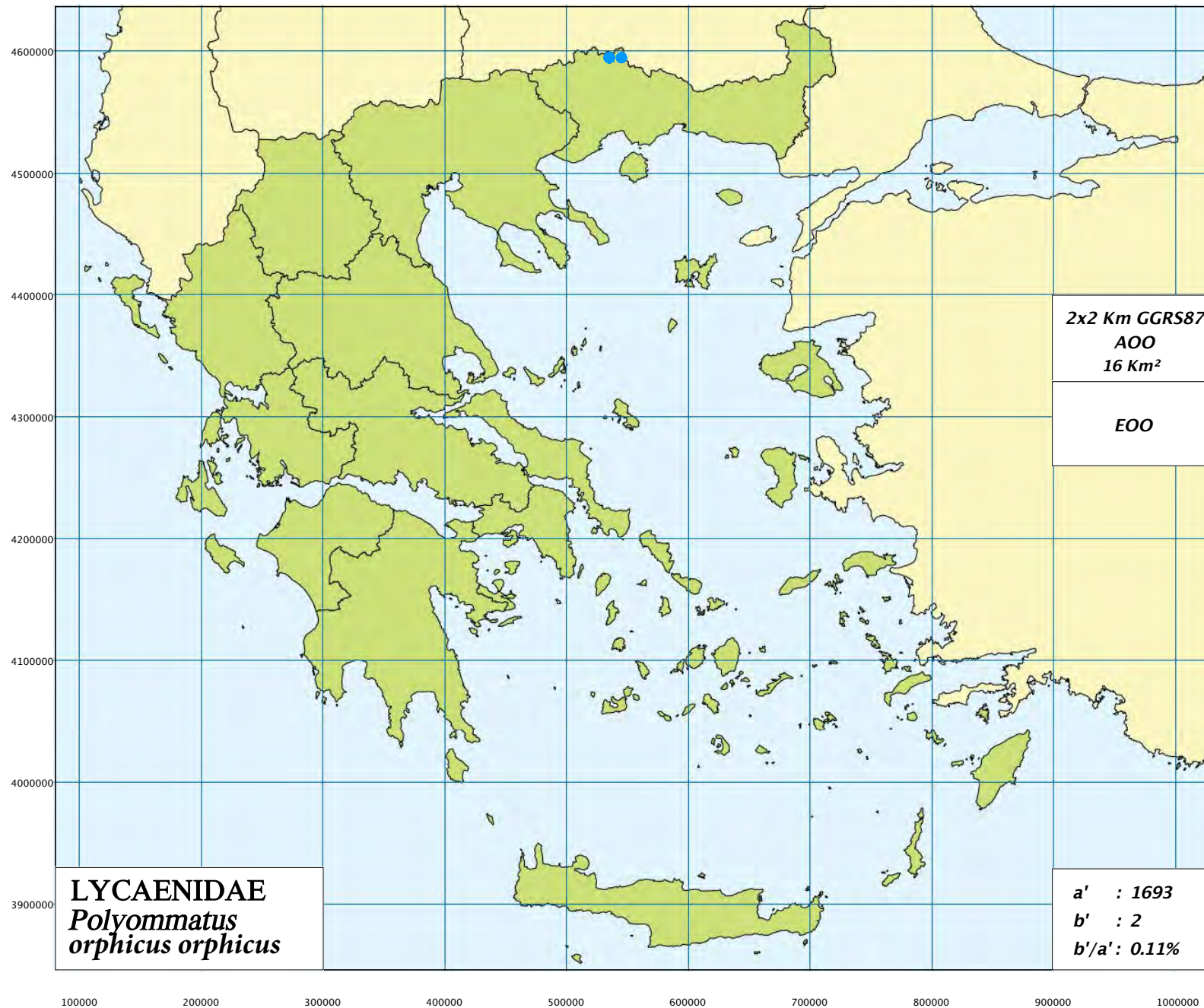






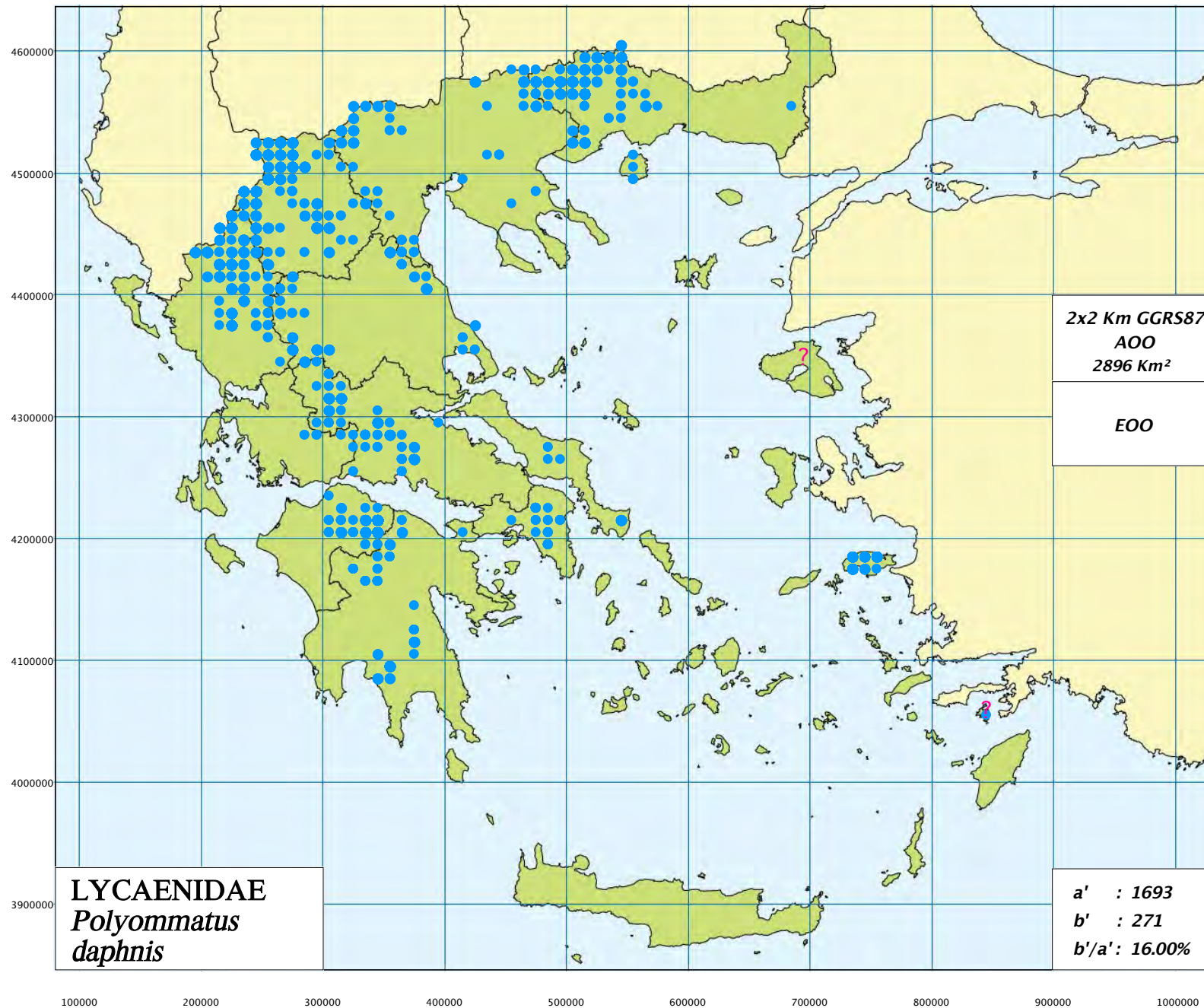






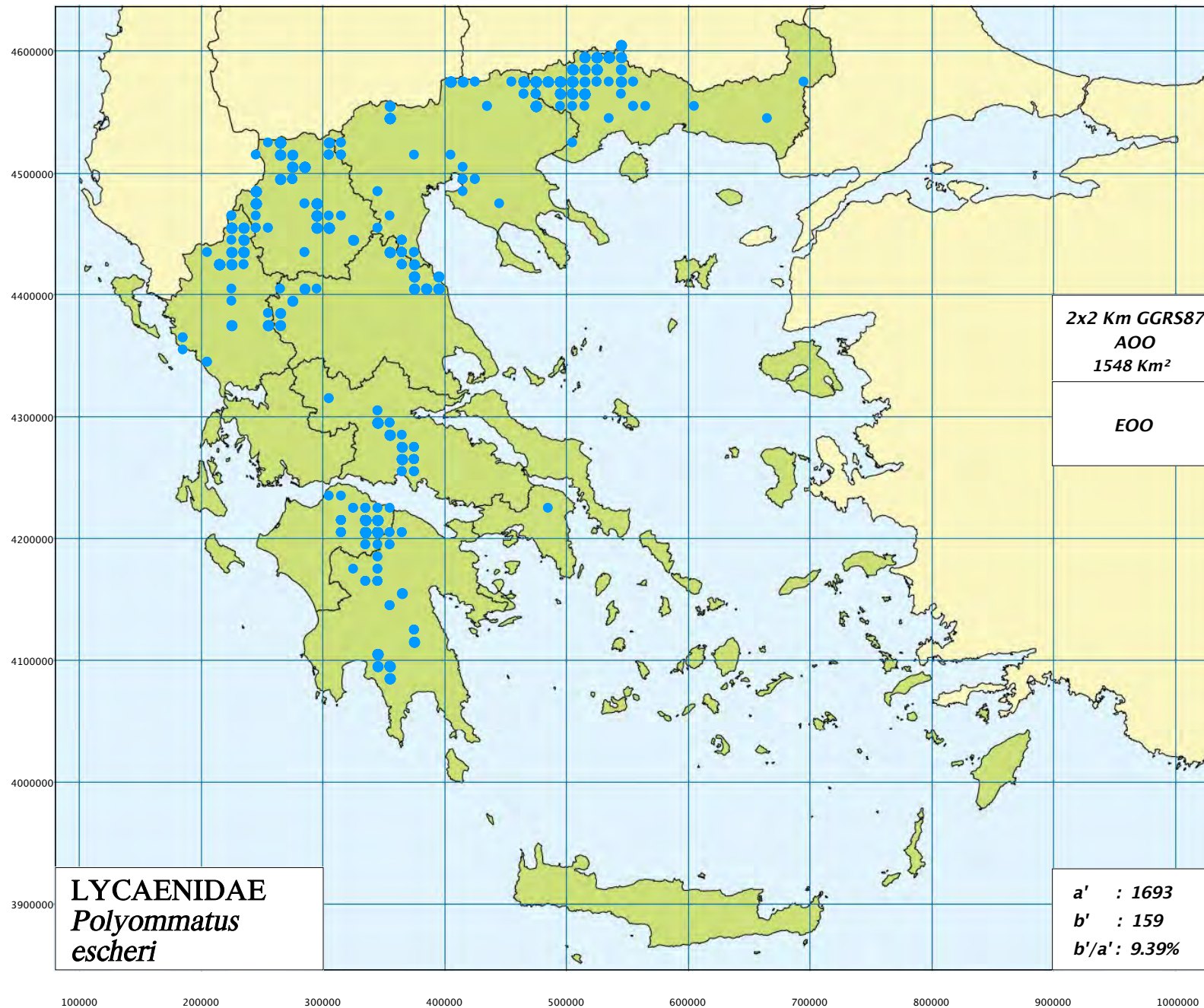


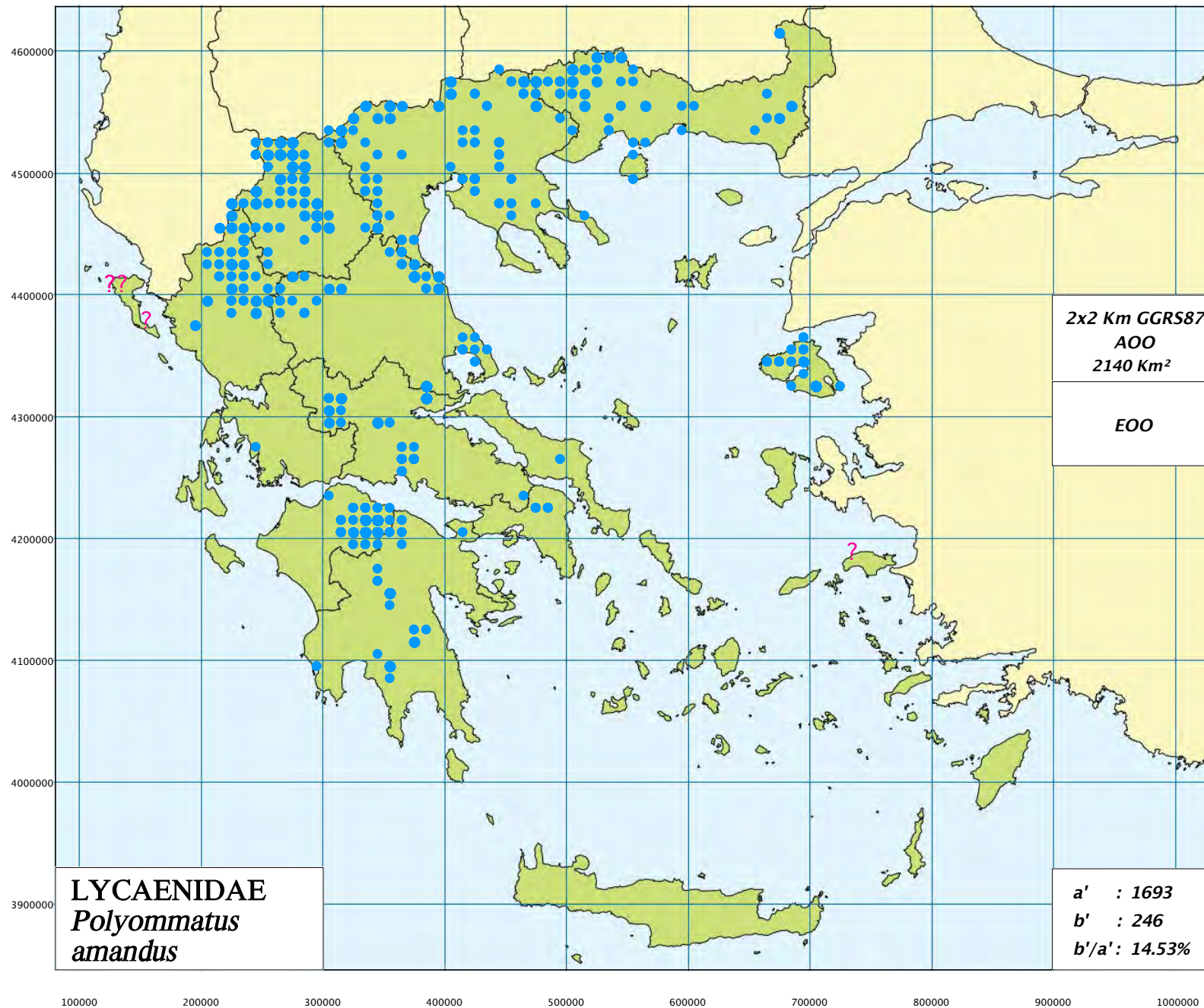


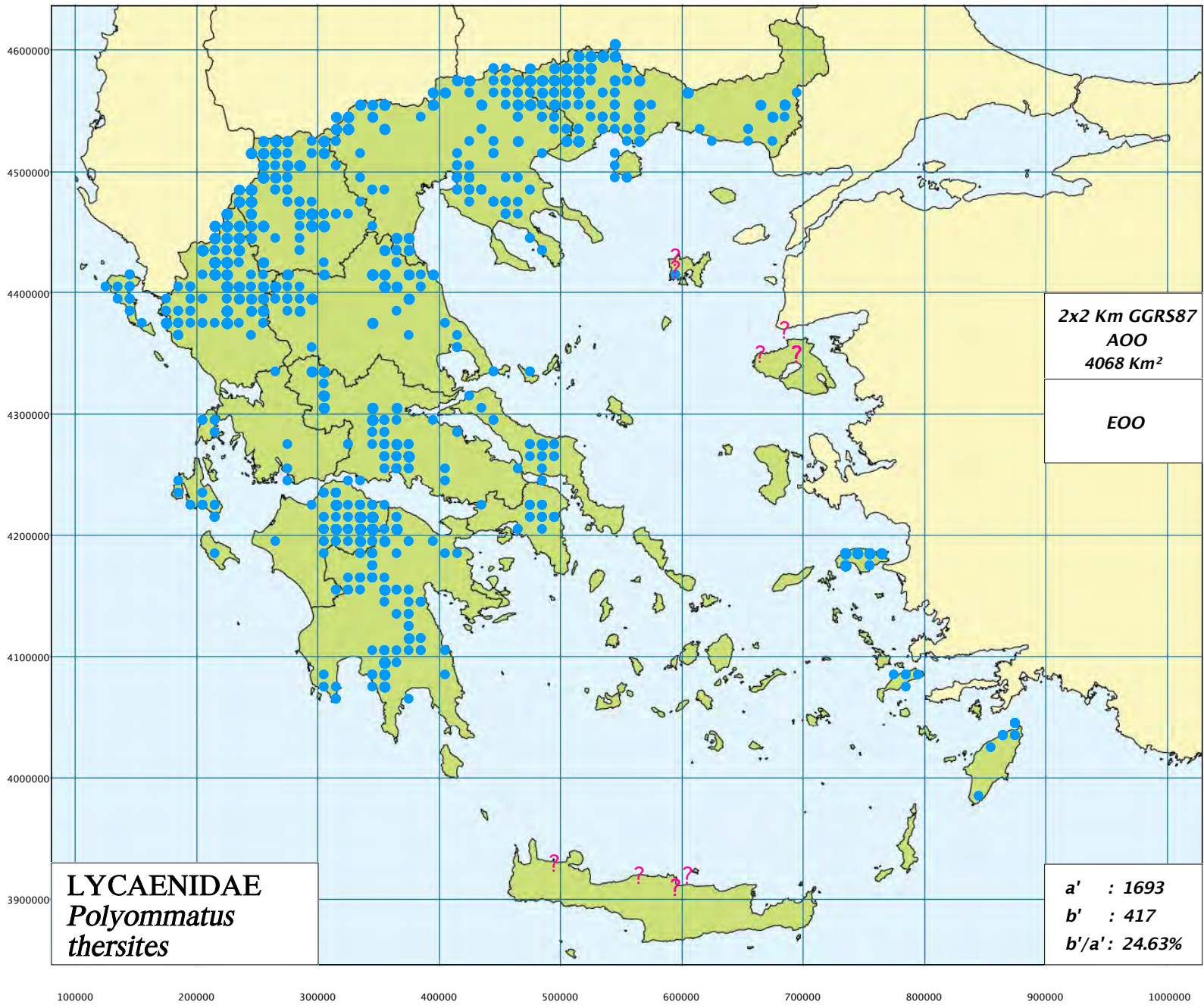


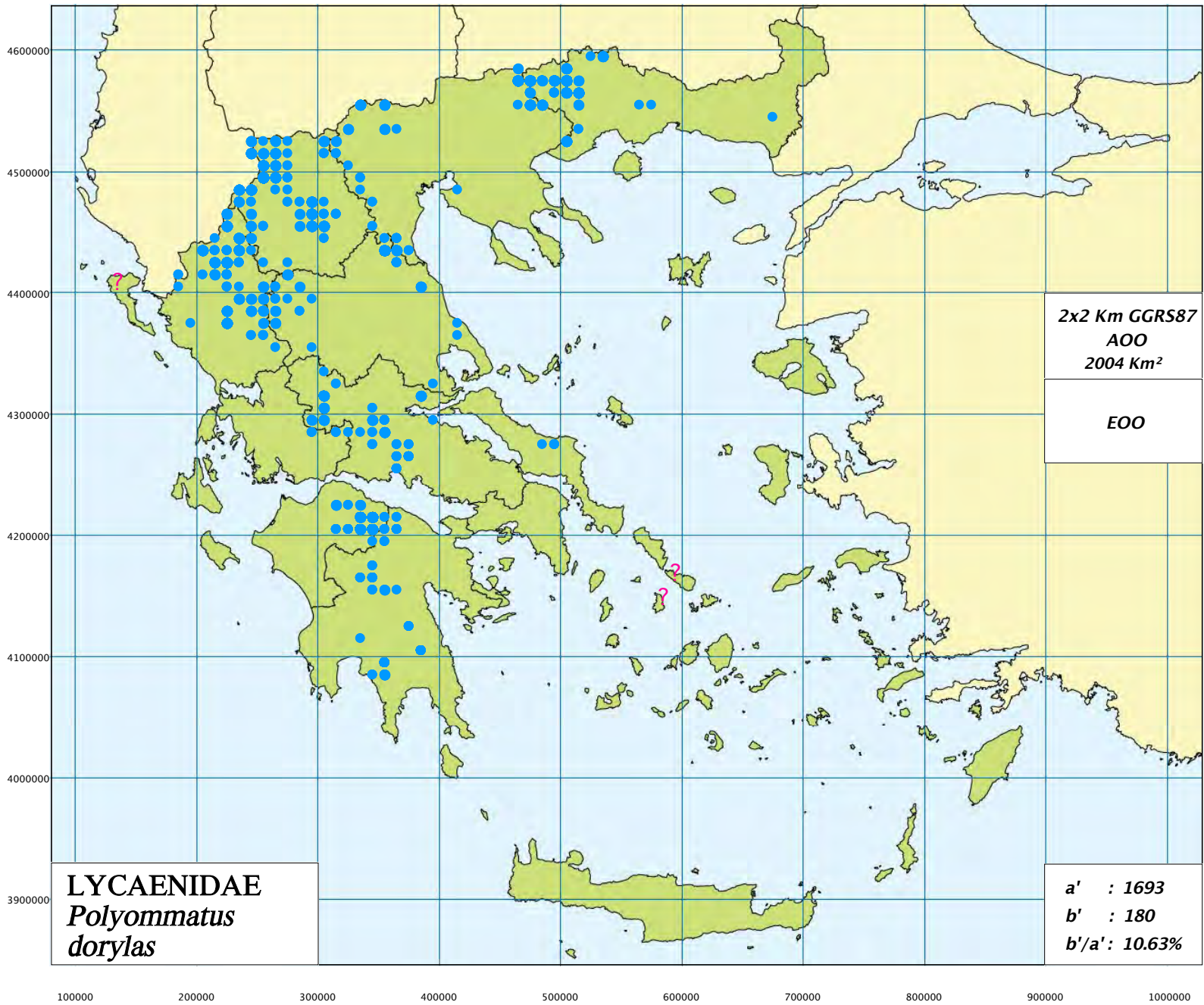




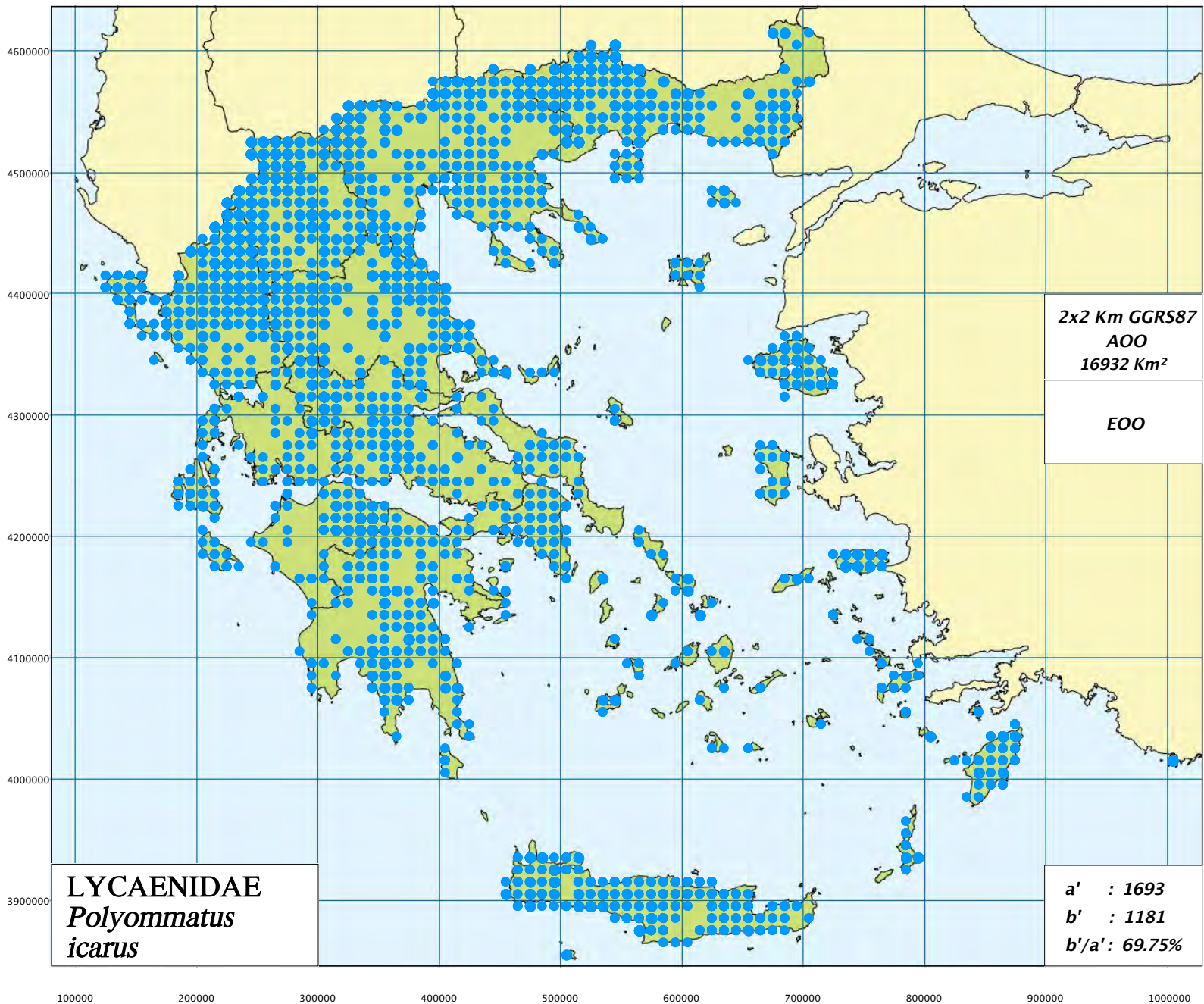


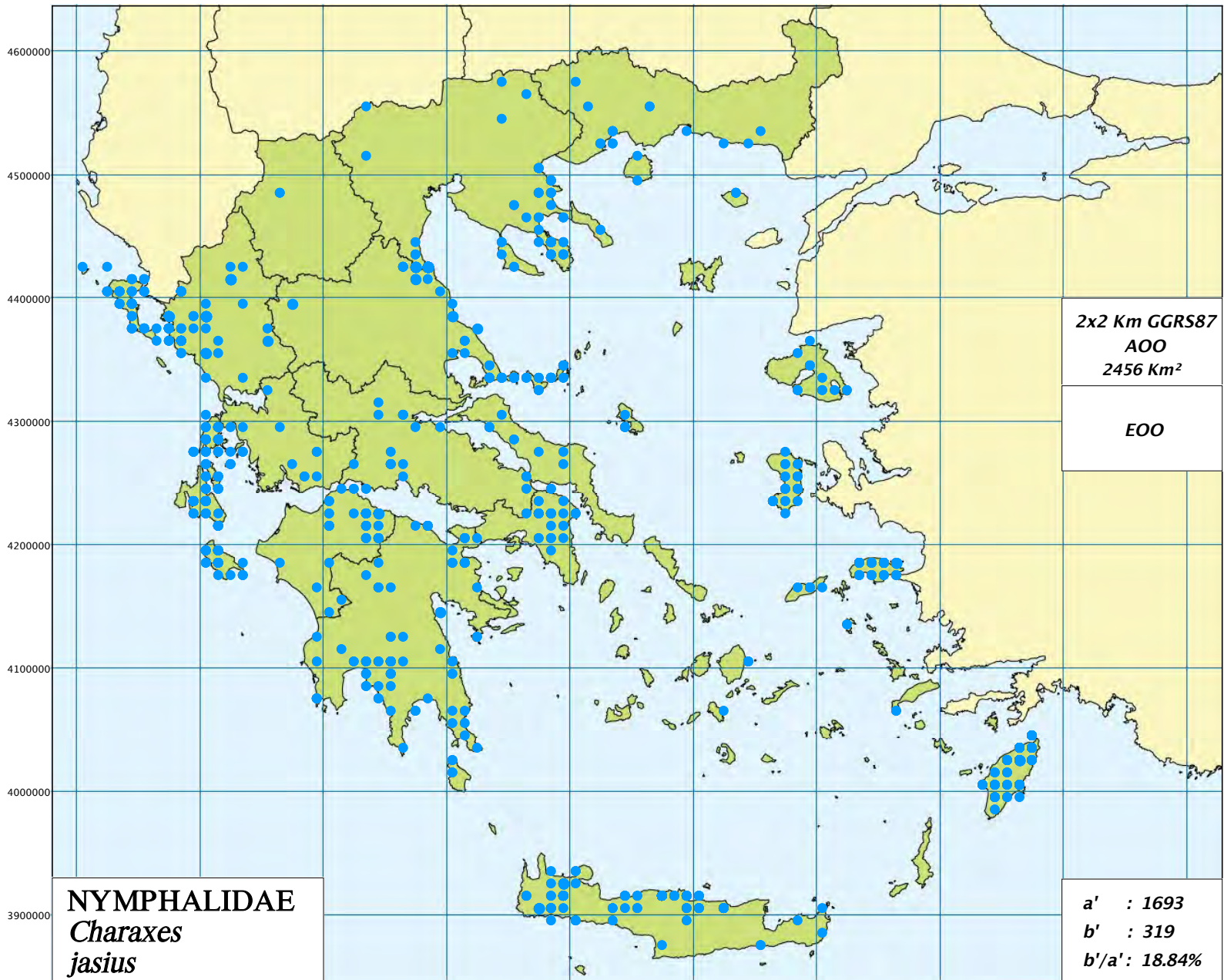


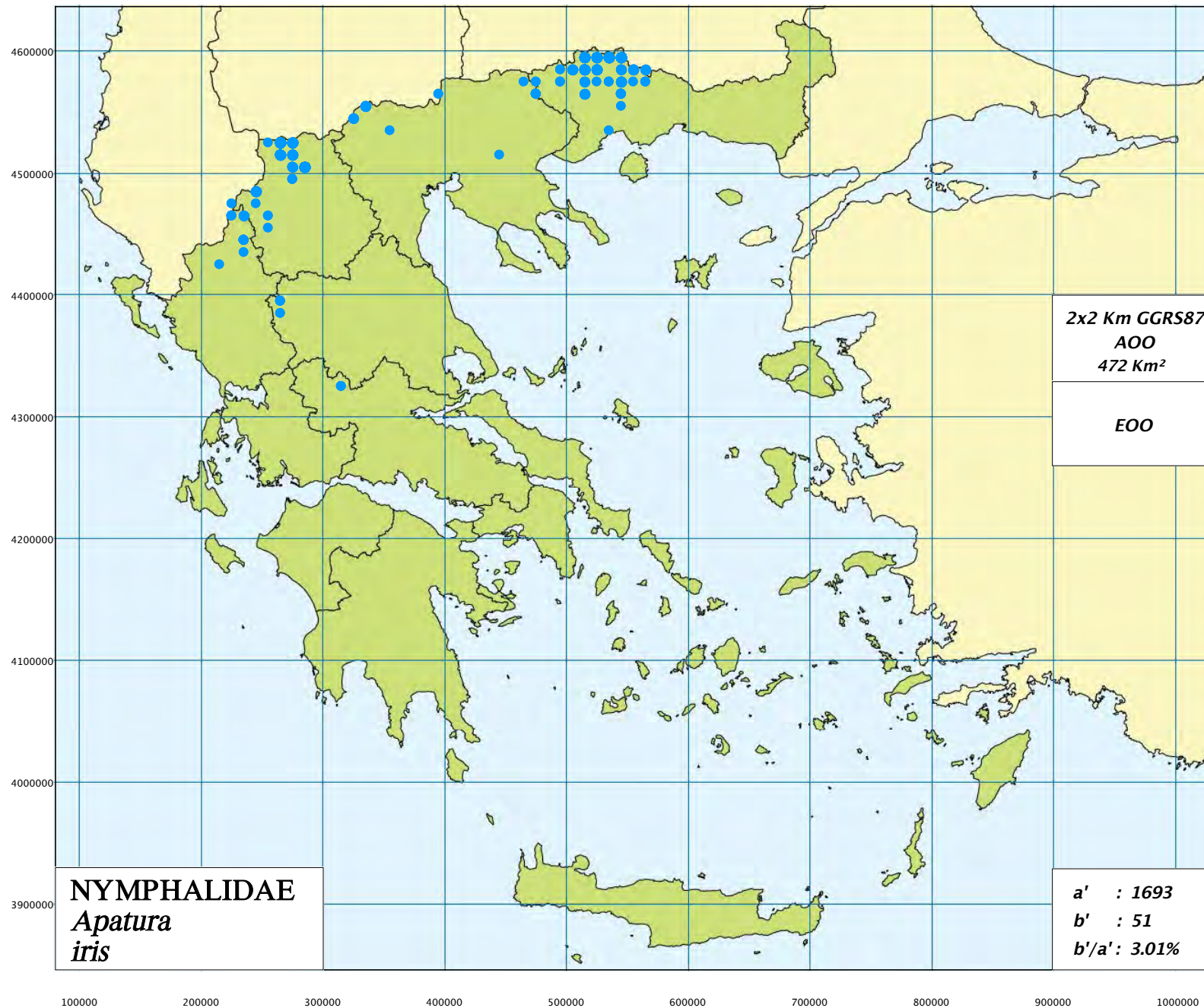


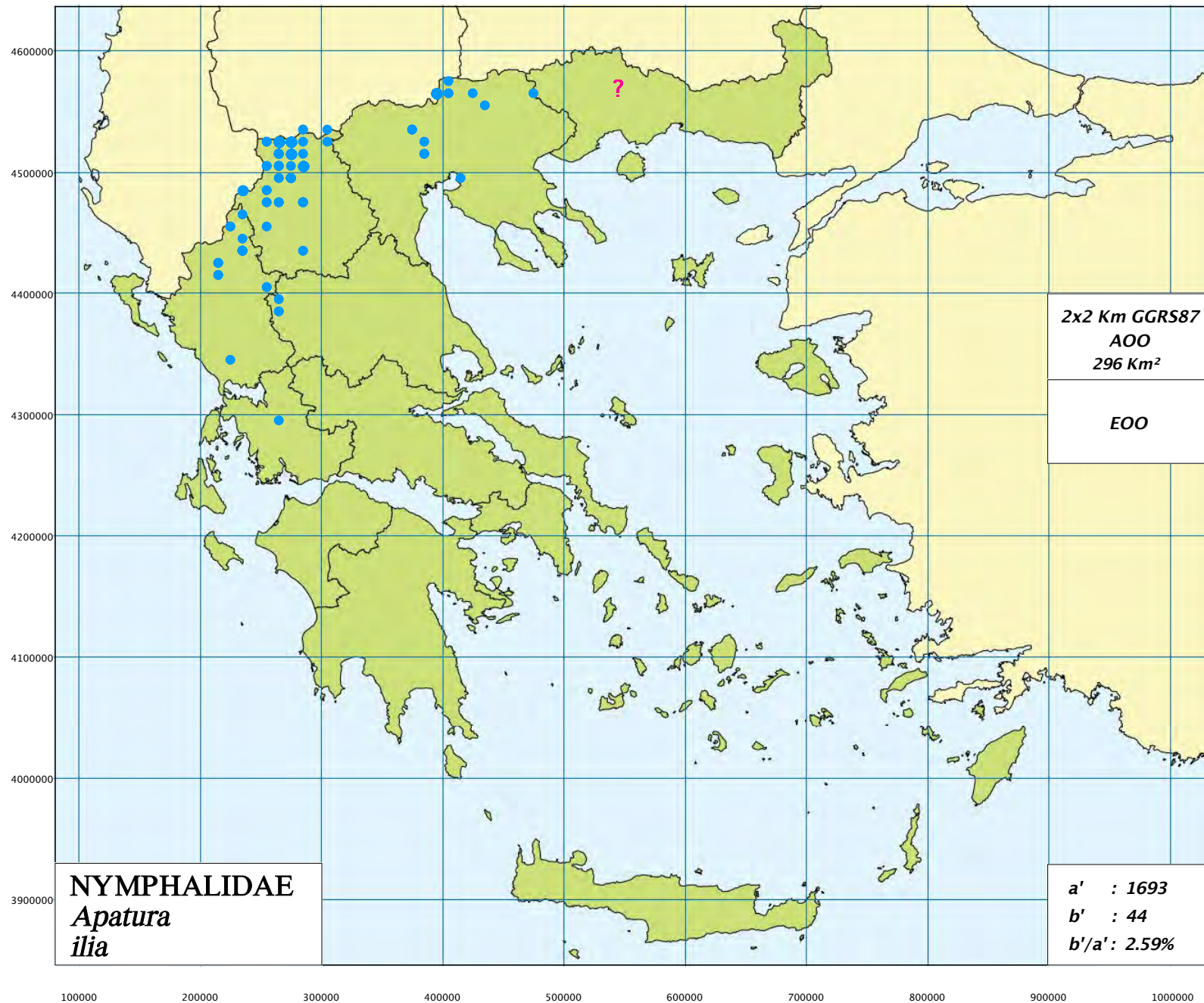


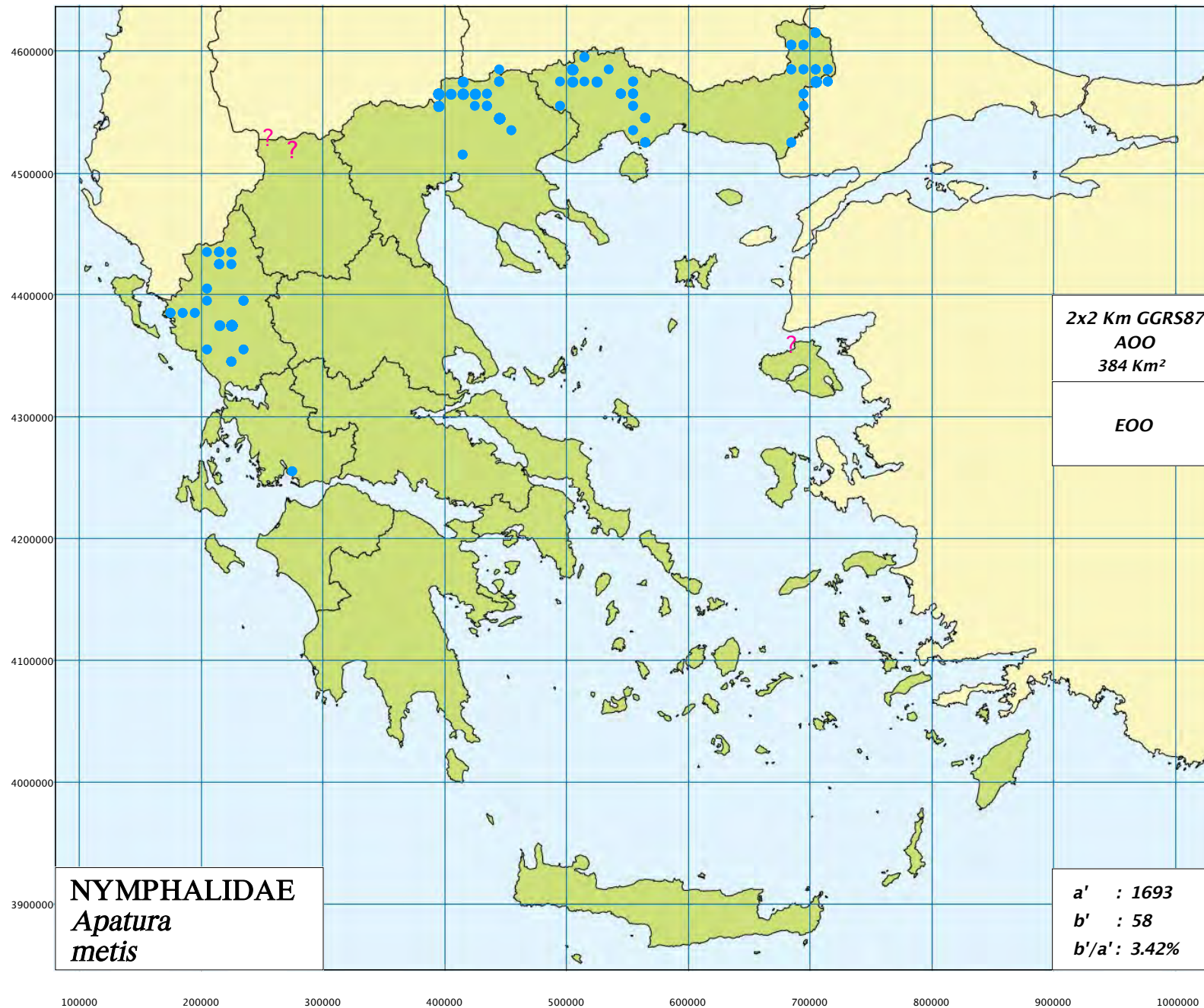


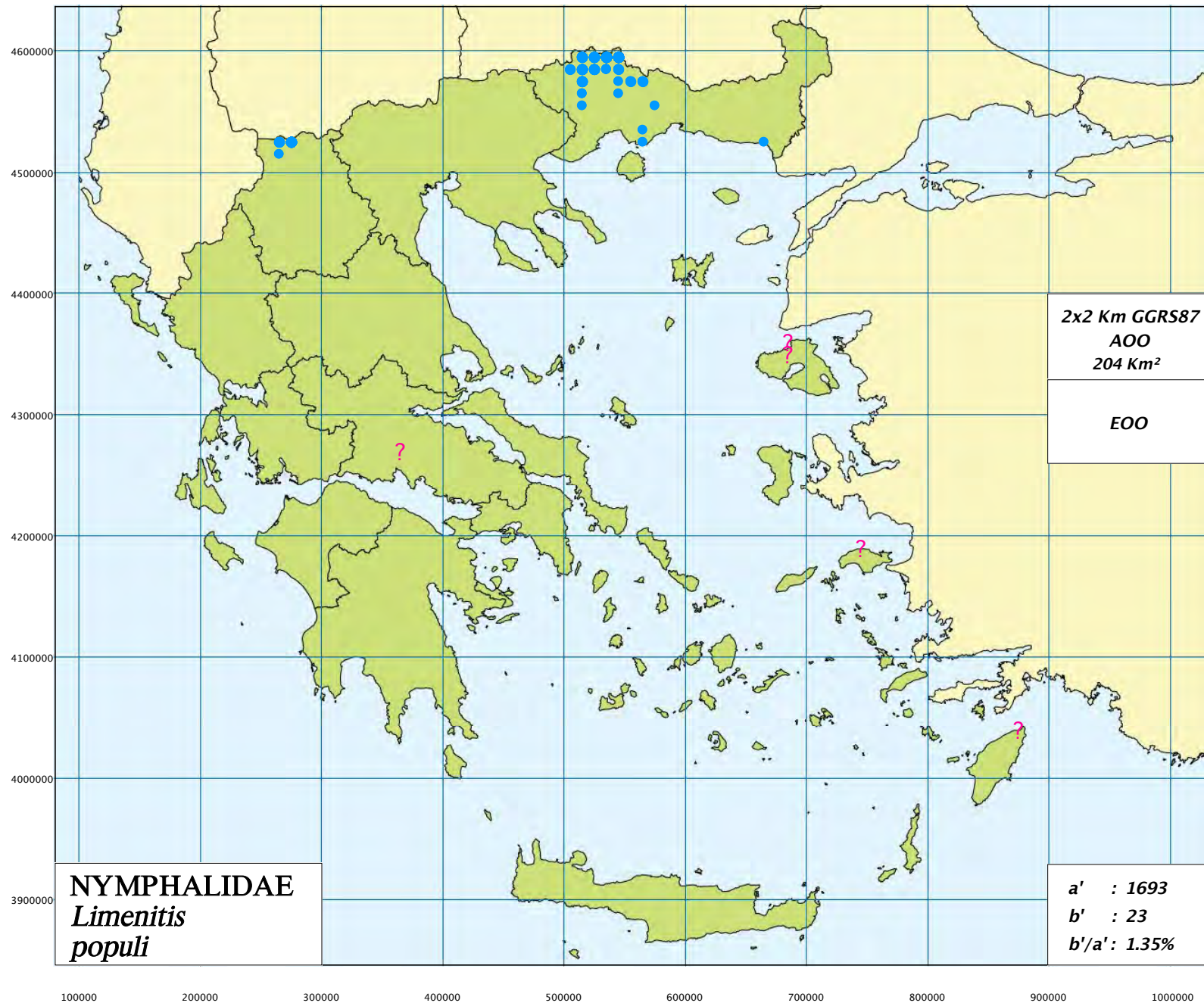




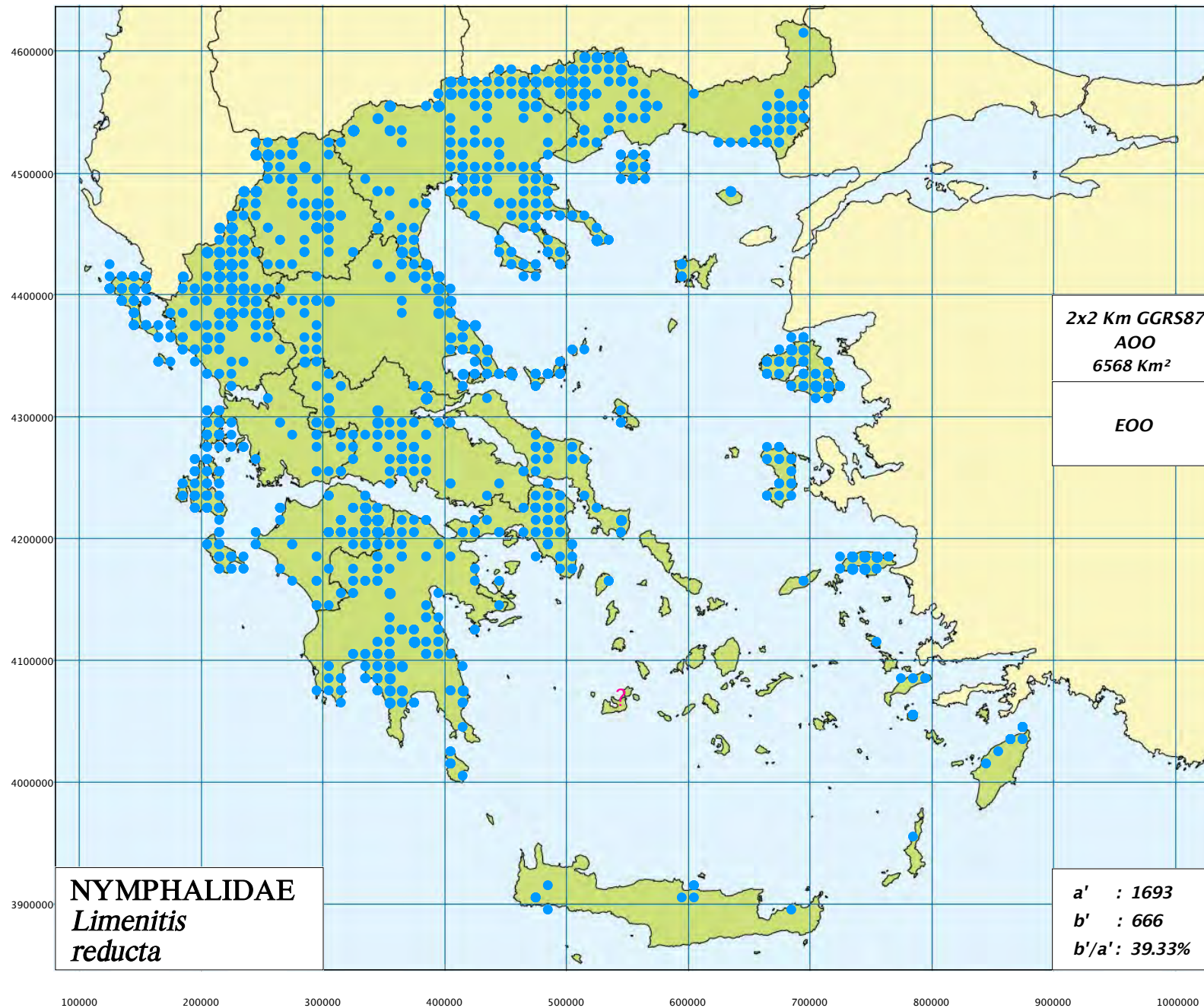


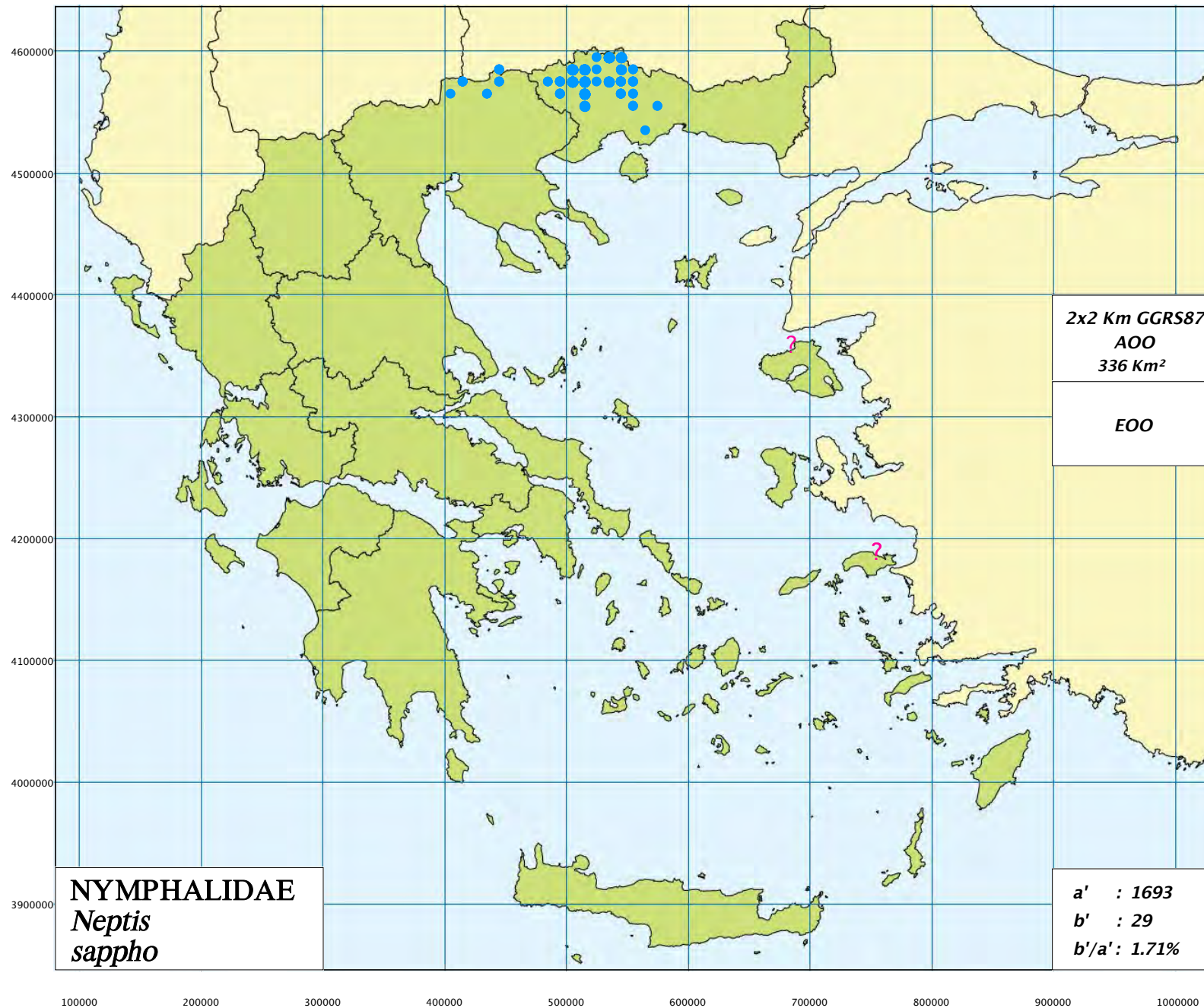


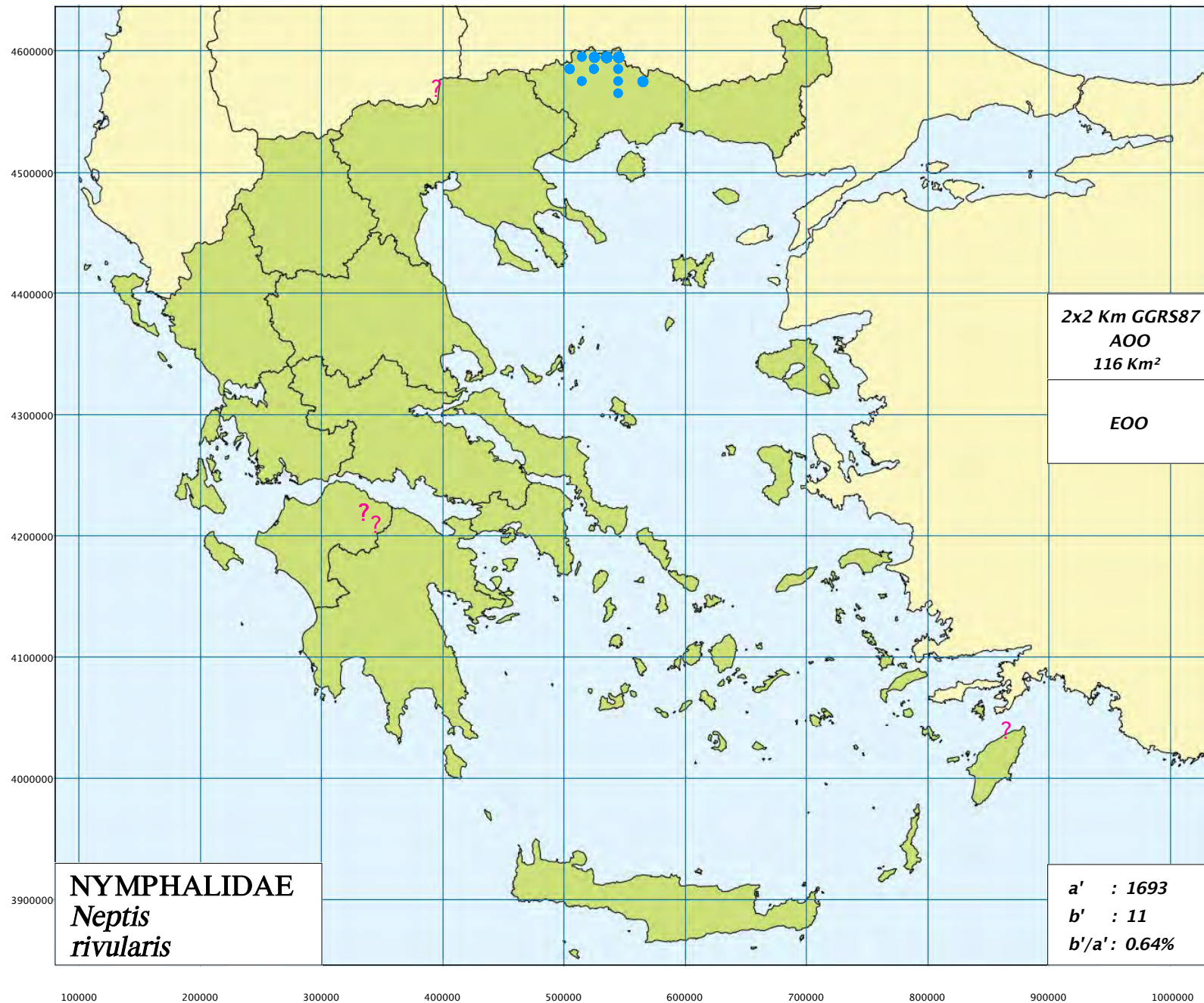


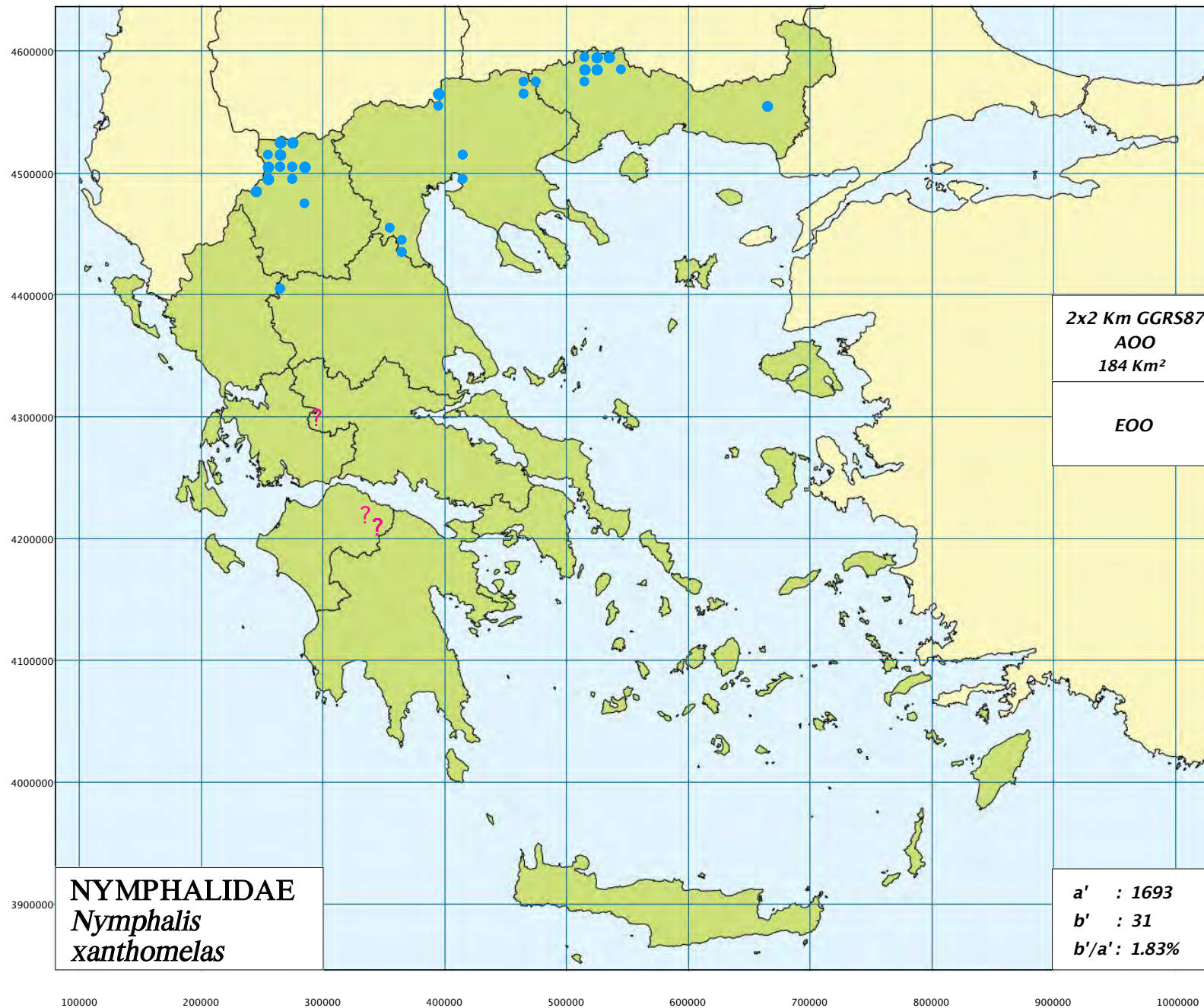


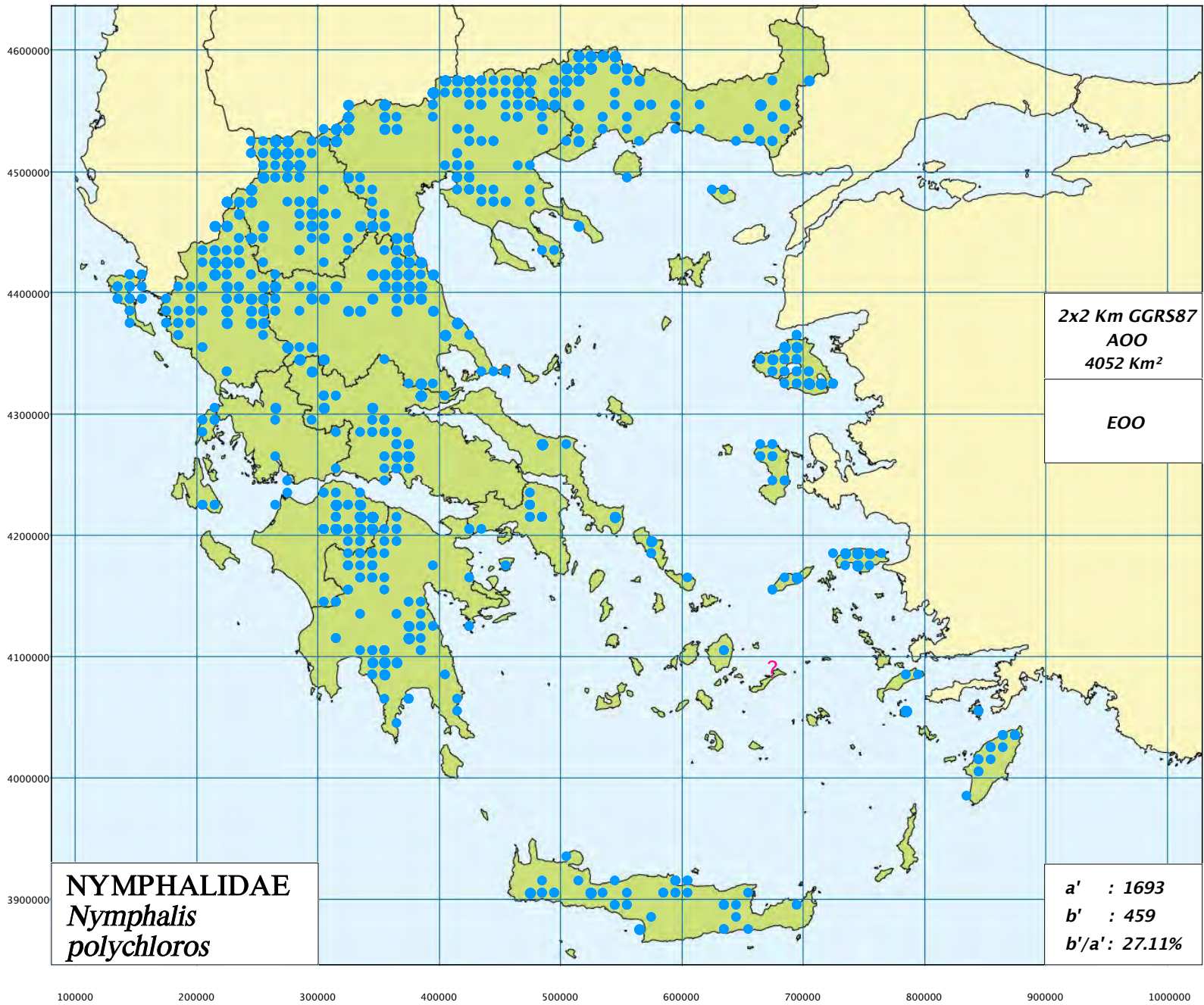


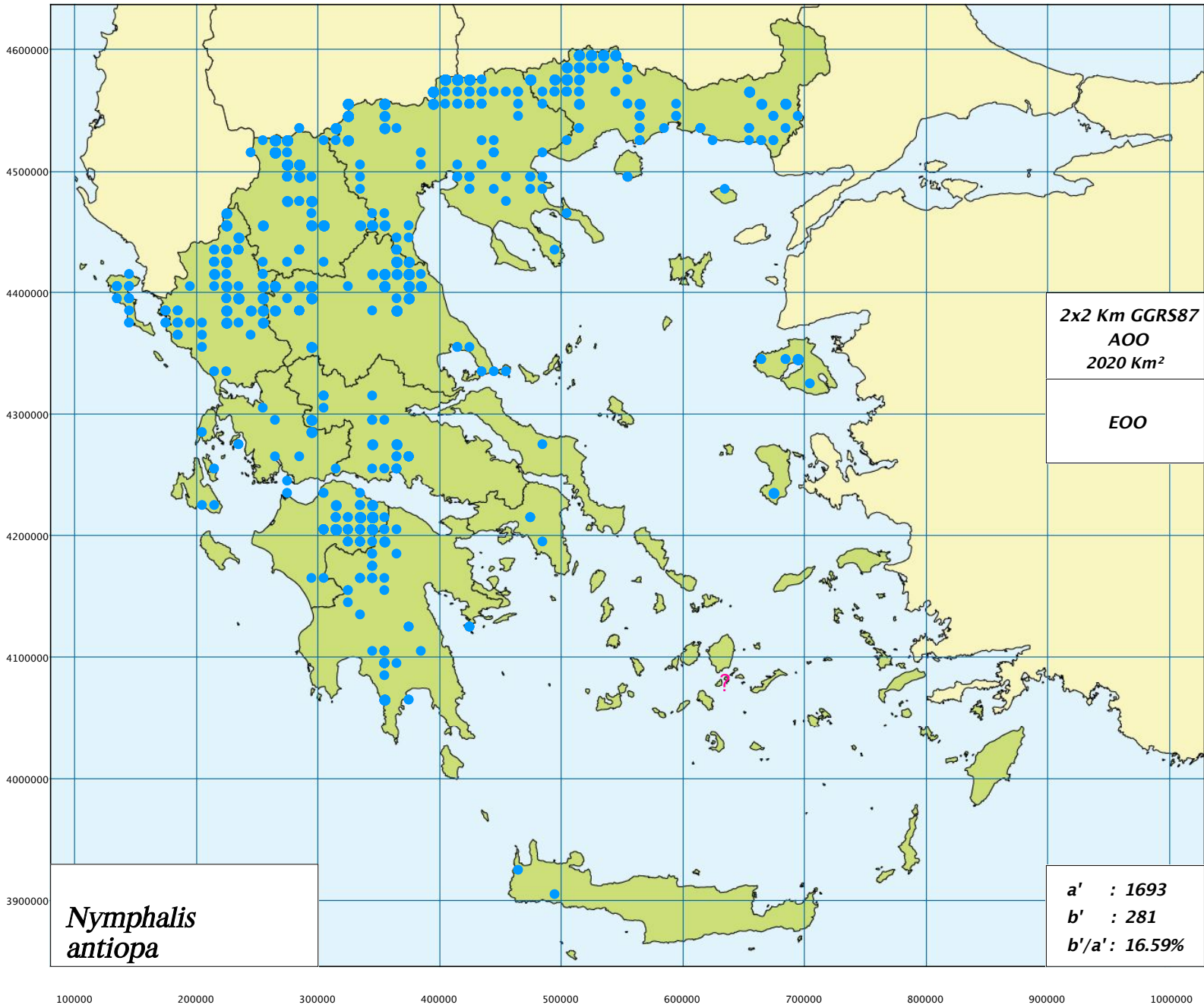








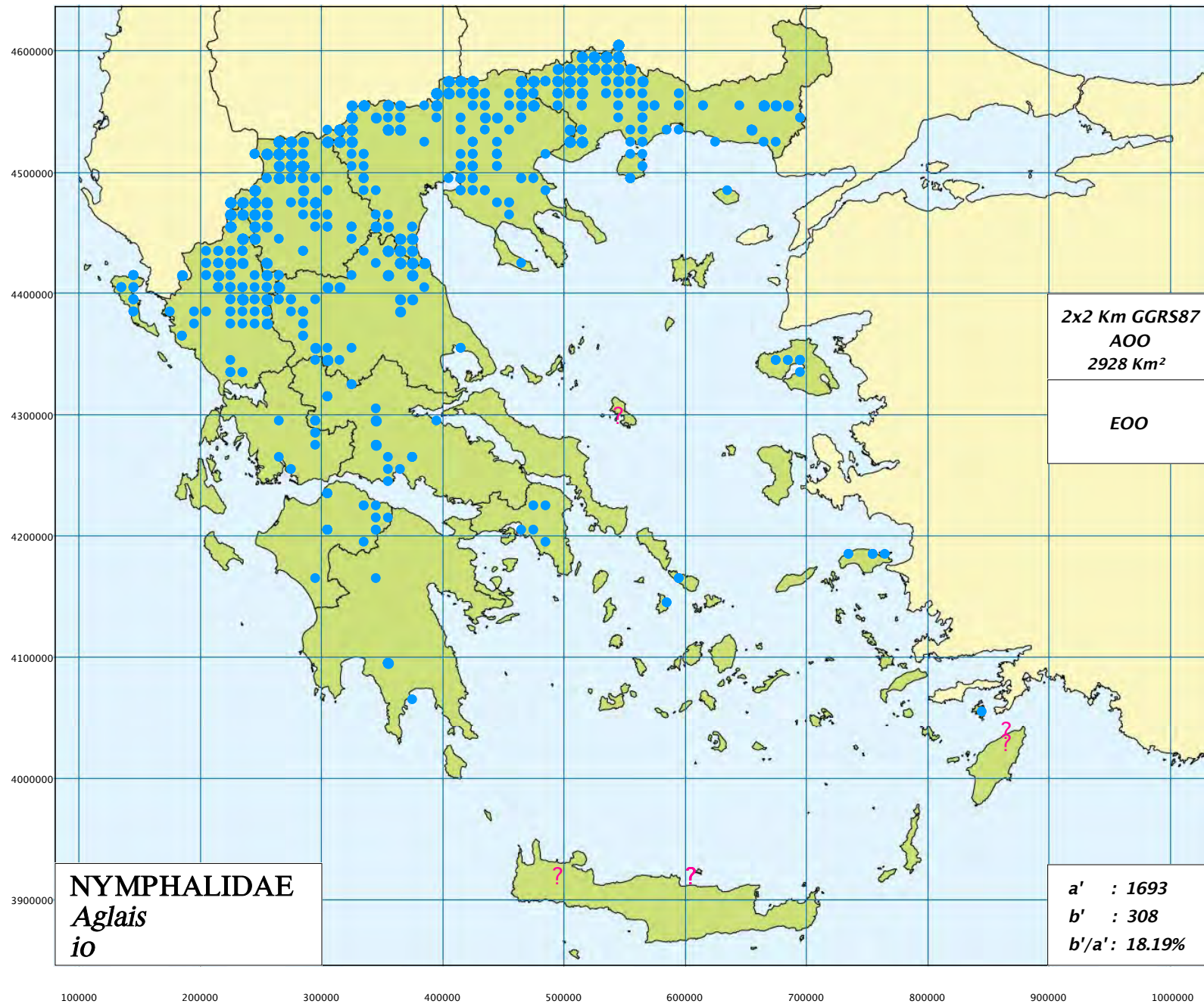


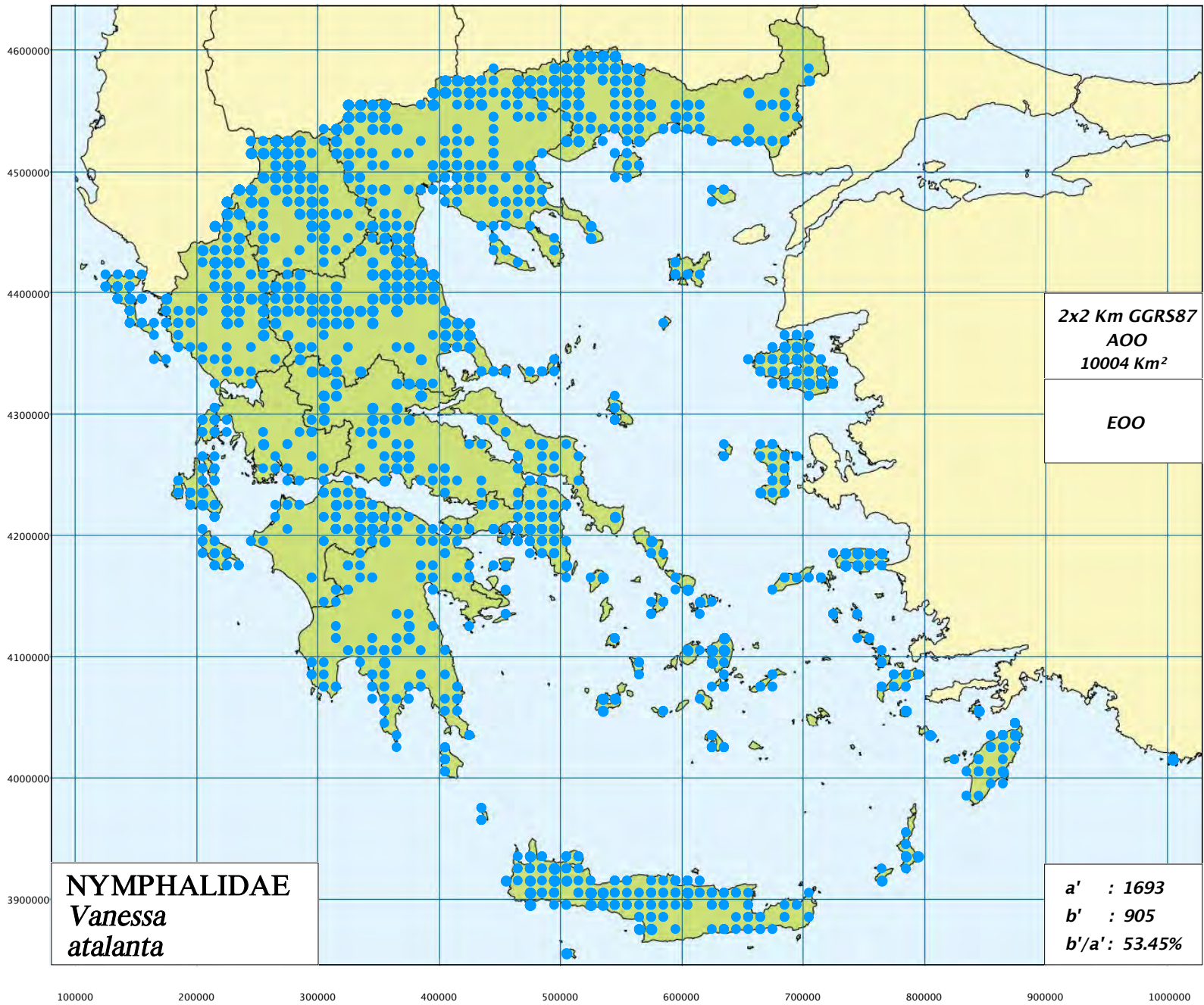


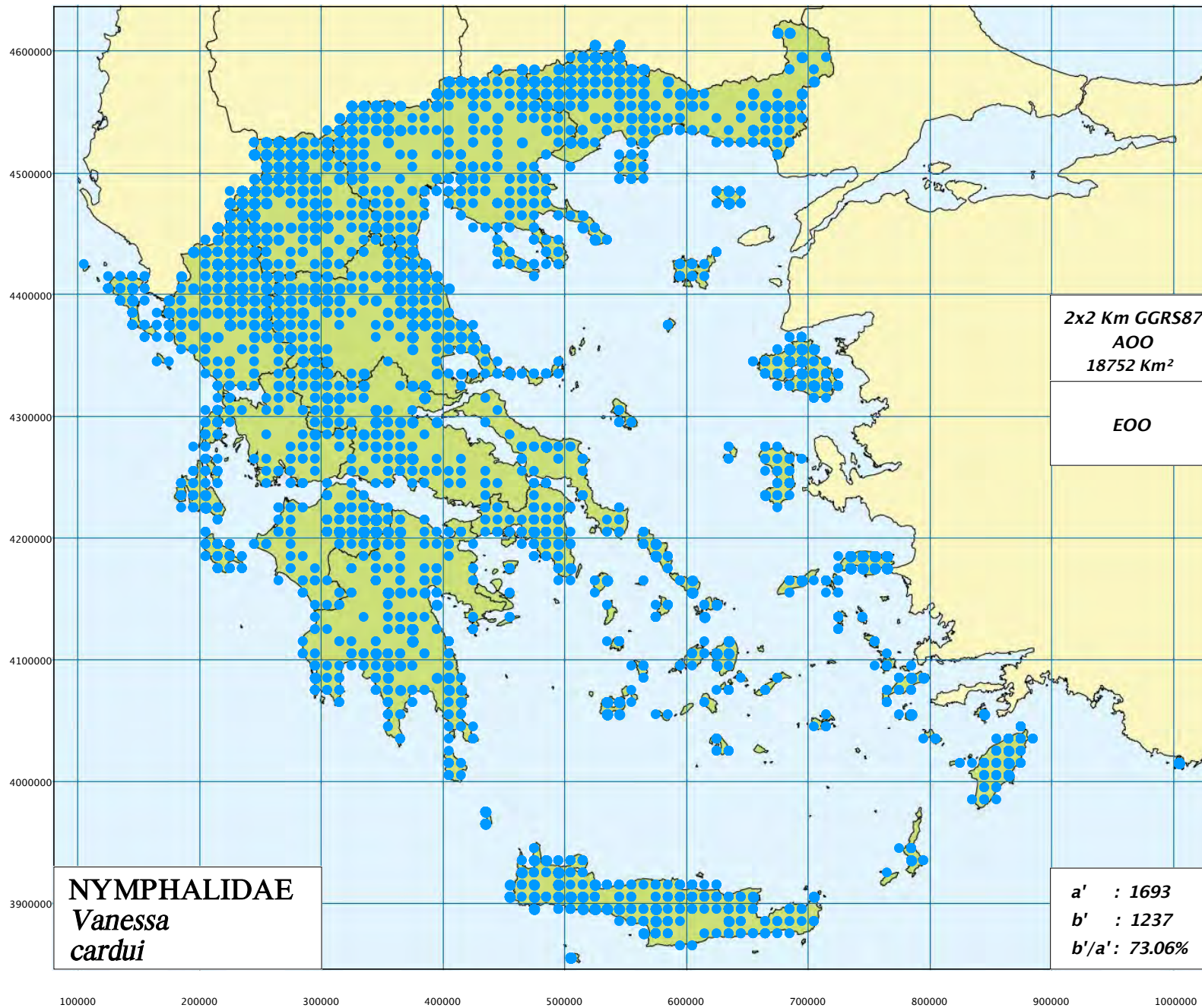
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AOO
2020 Km²
EOO

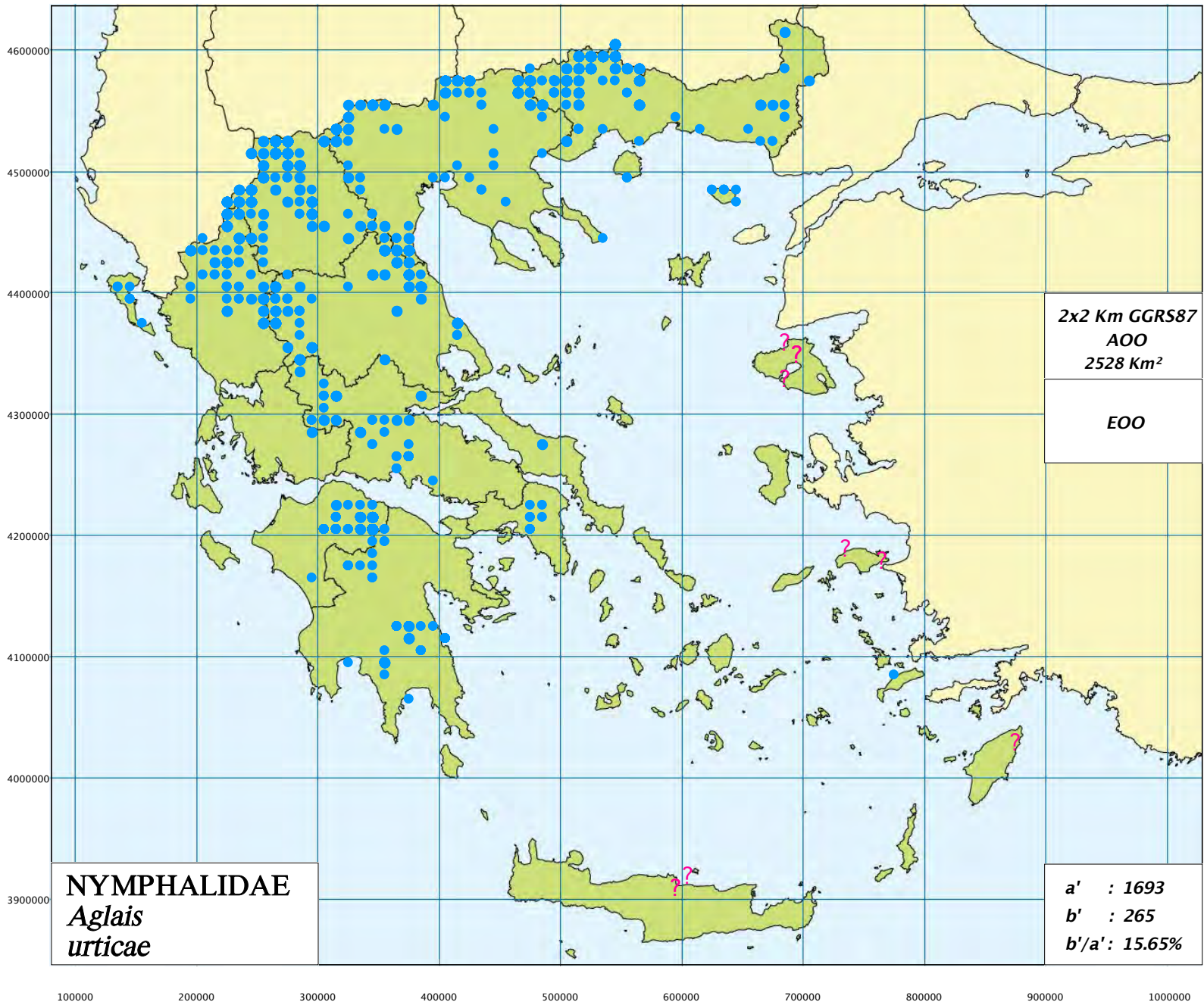
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 b' : 281
 b'/a' : 16.59%

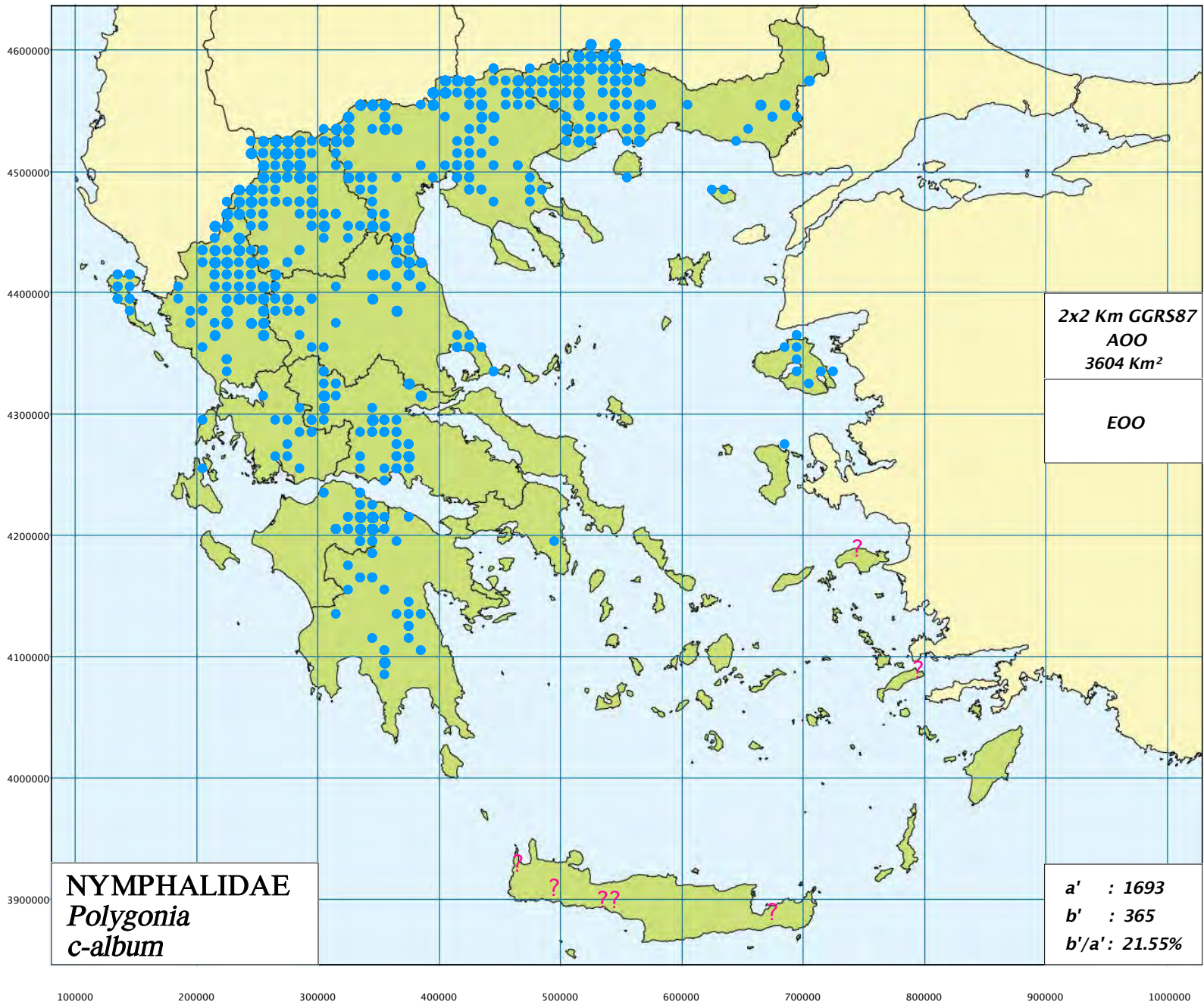
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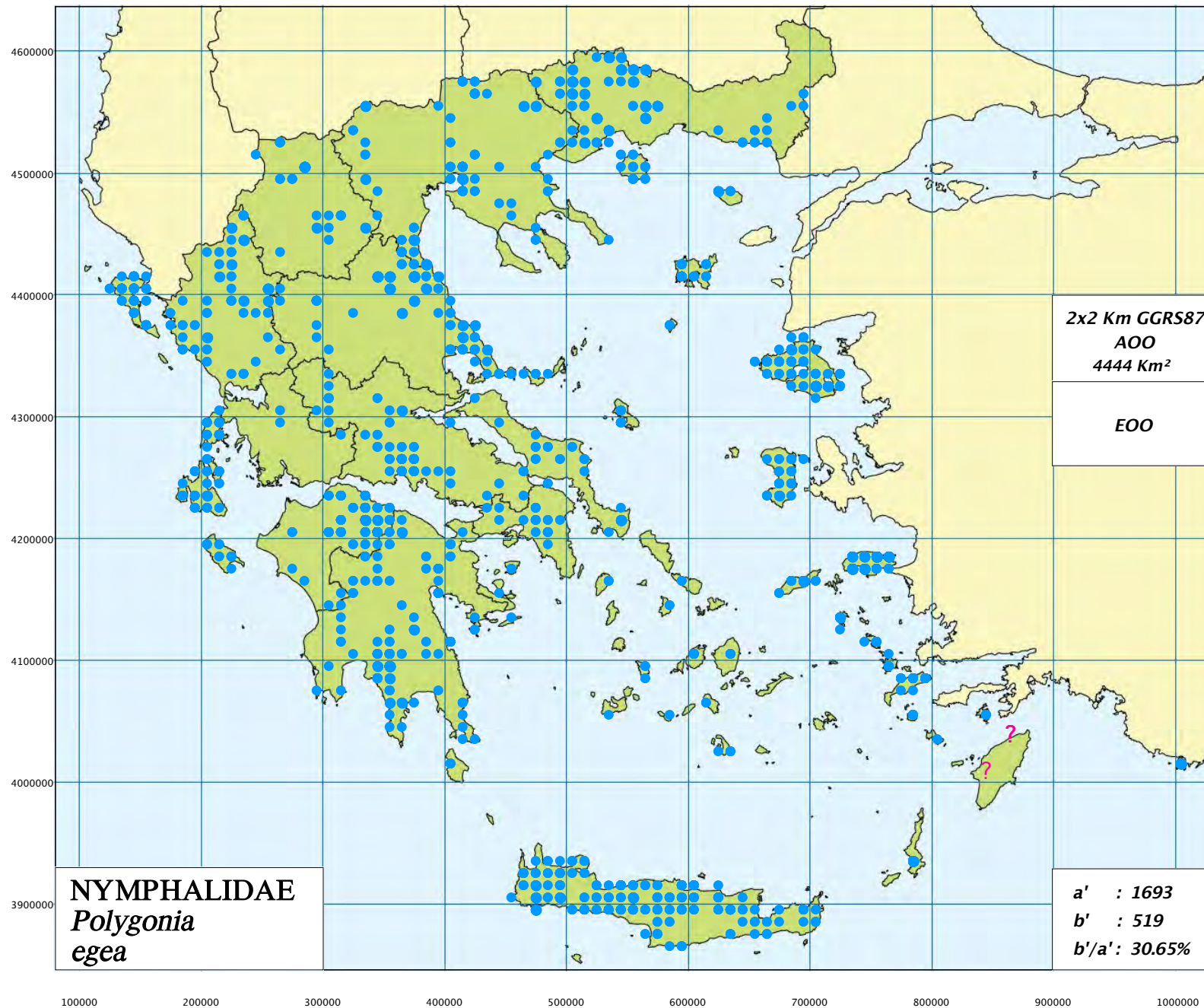


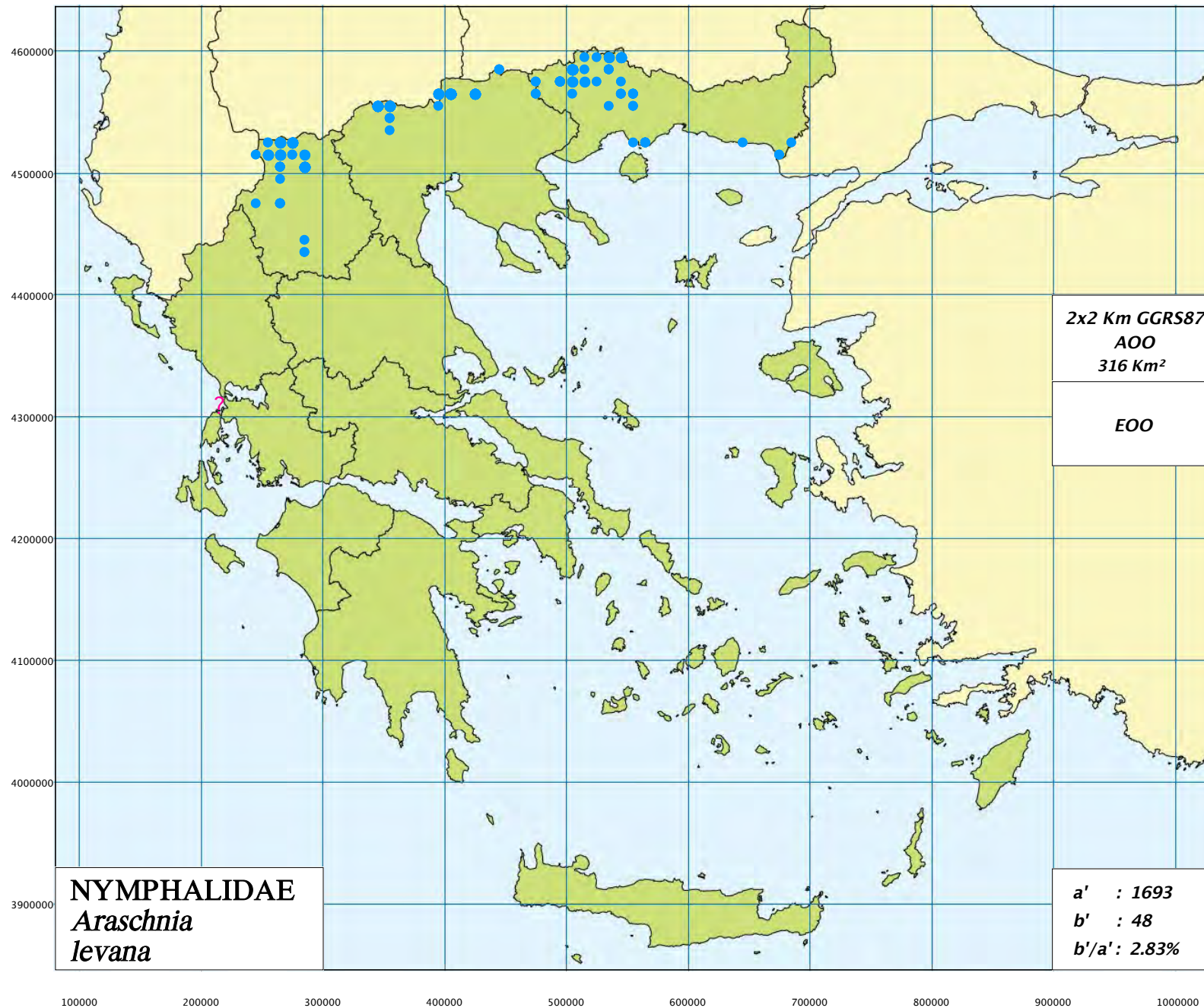


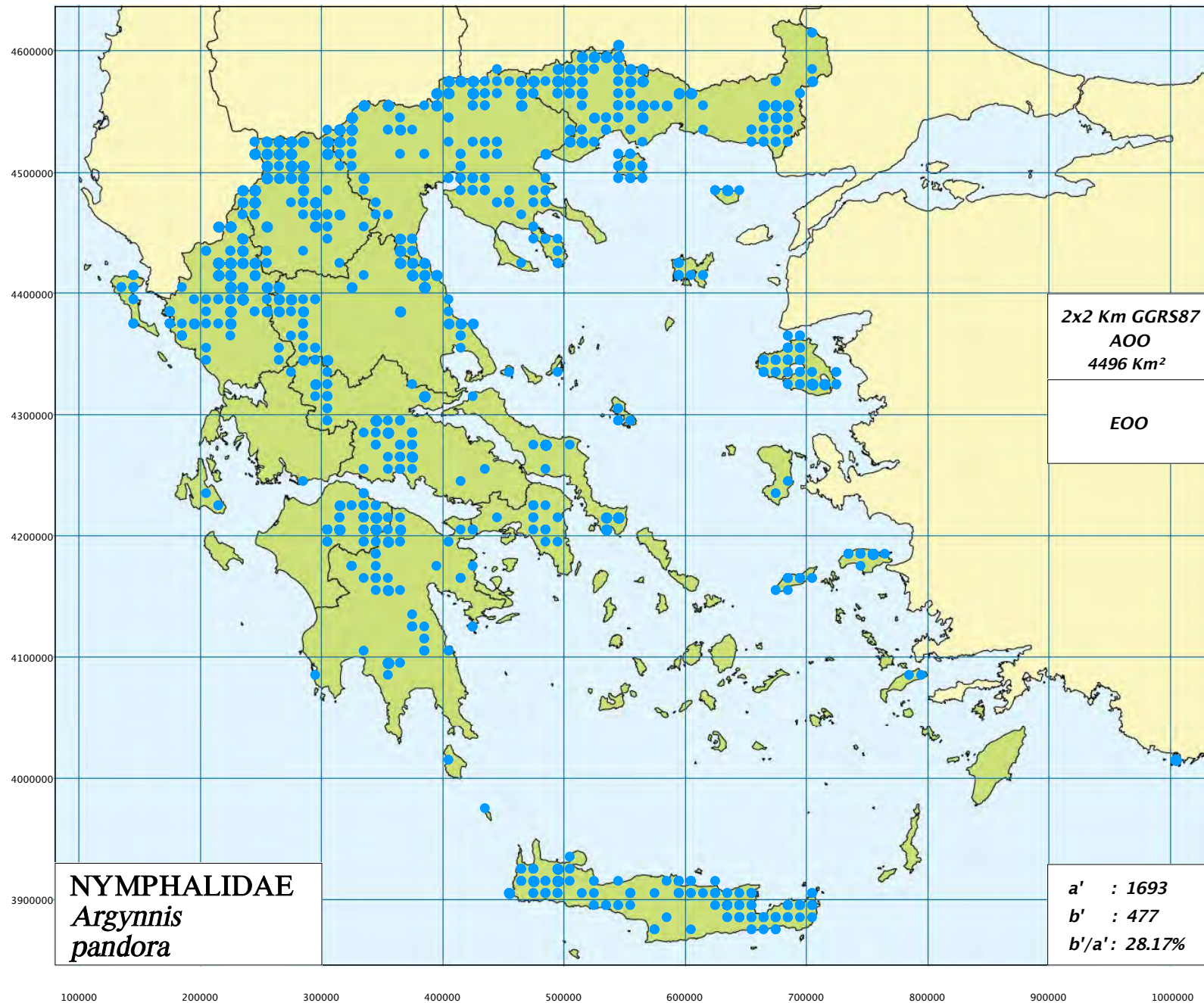


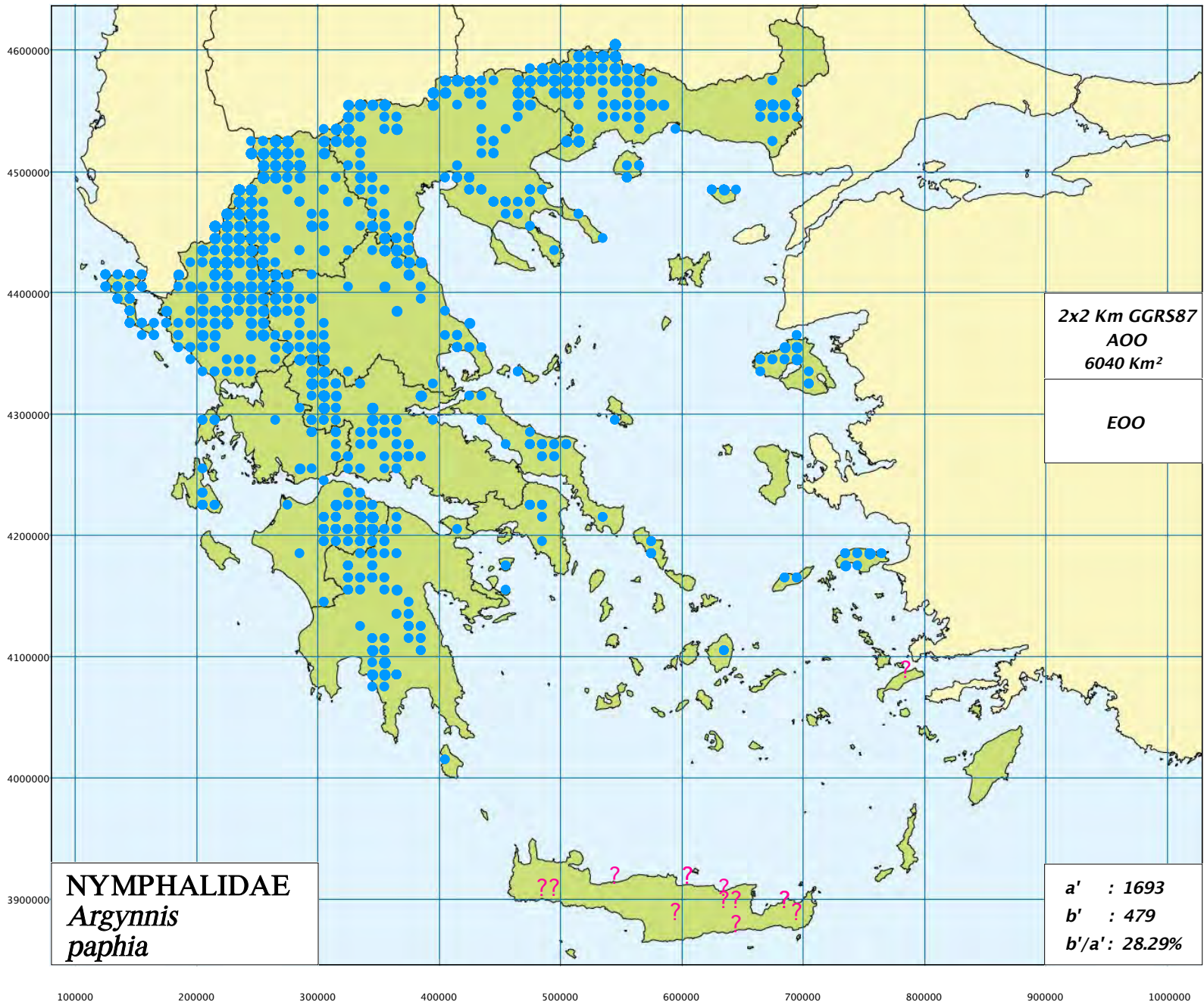


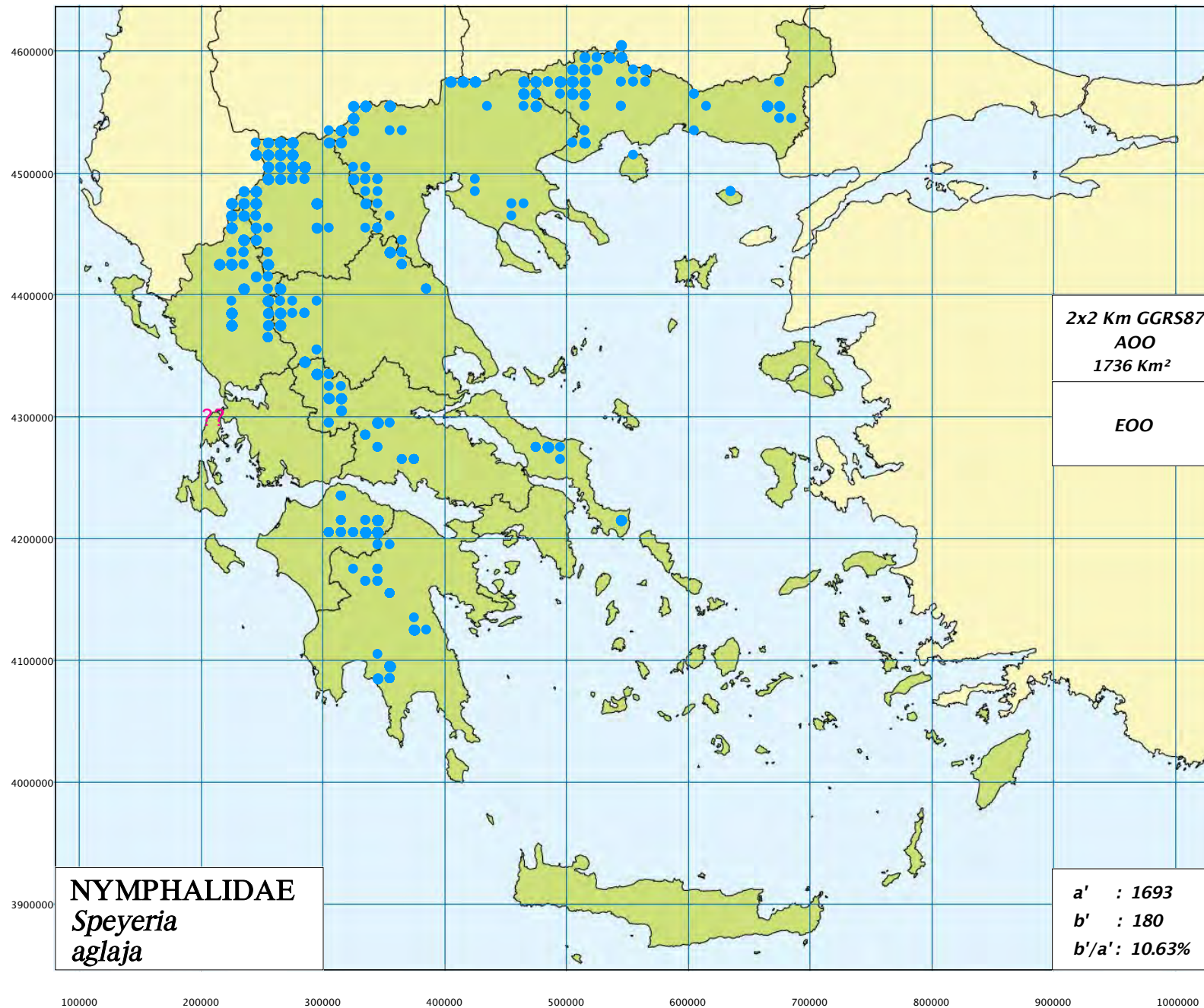


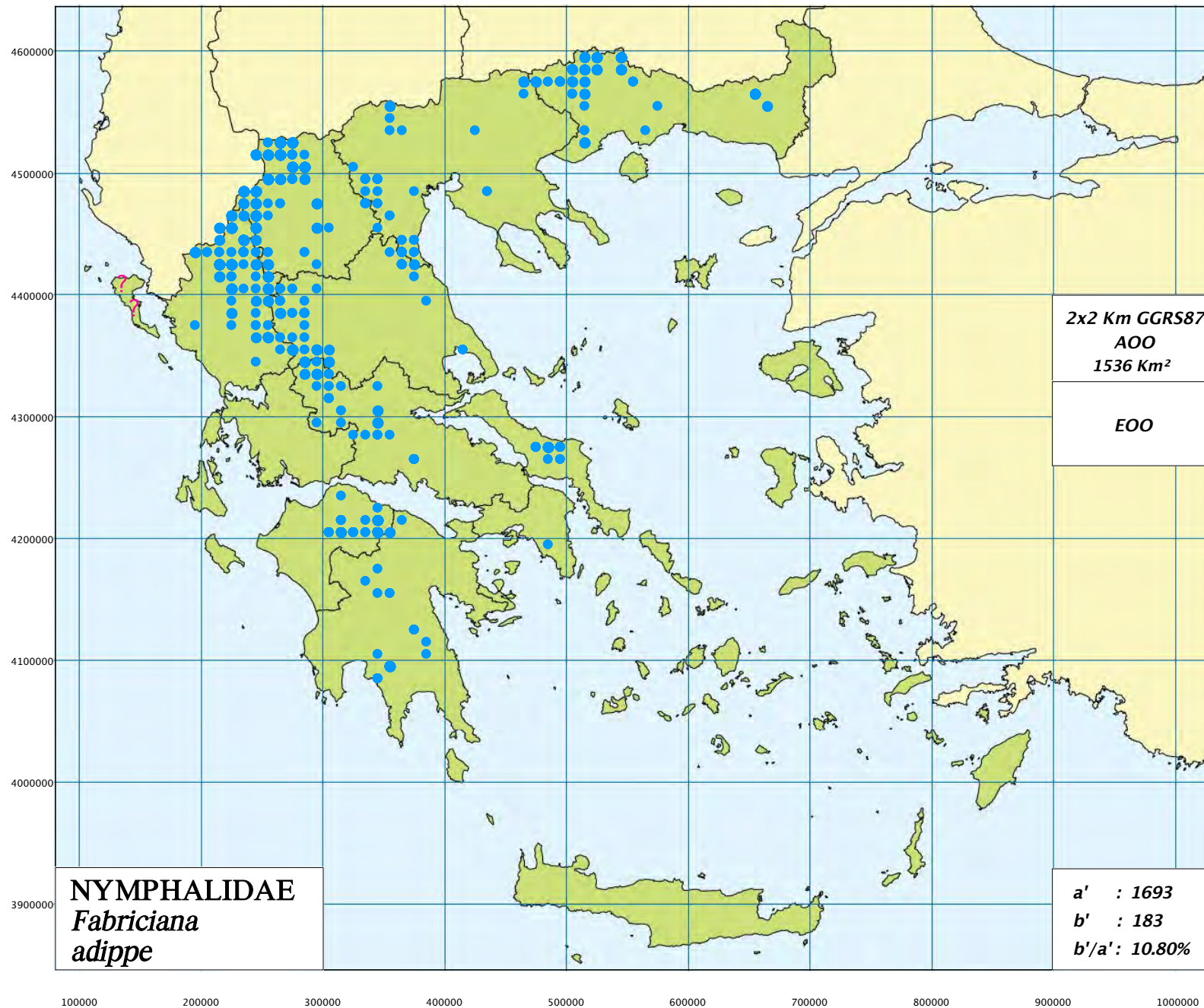


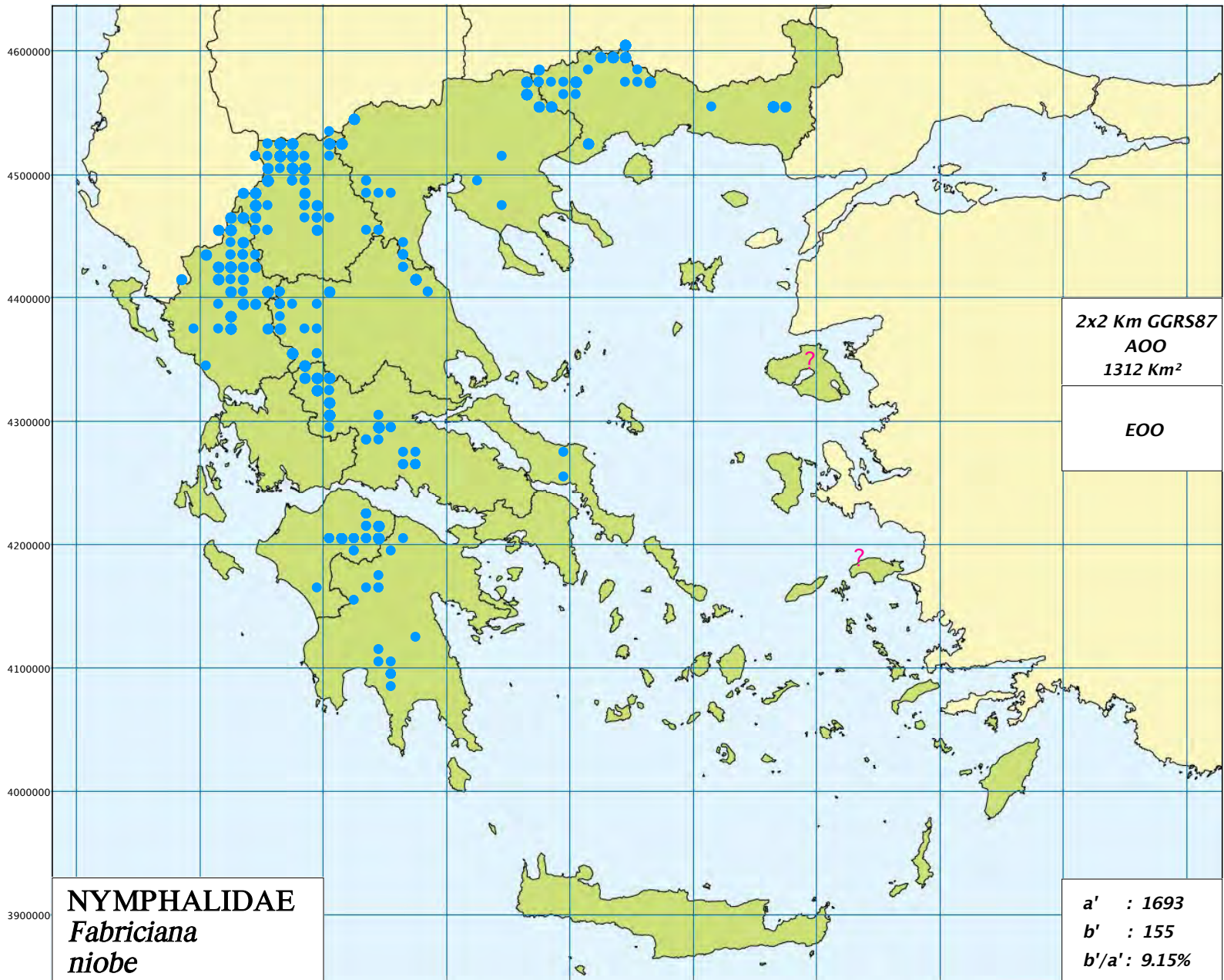


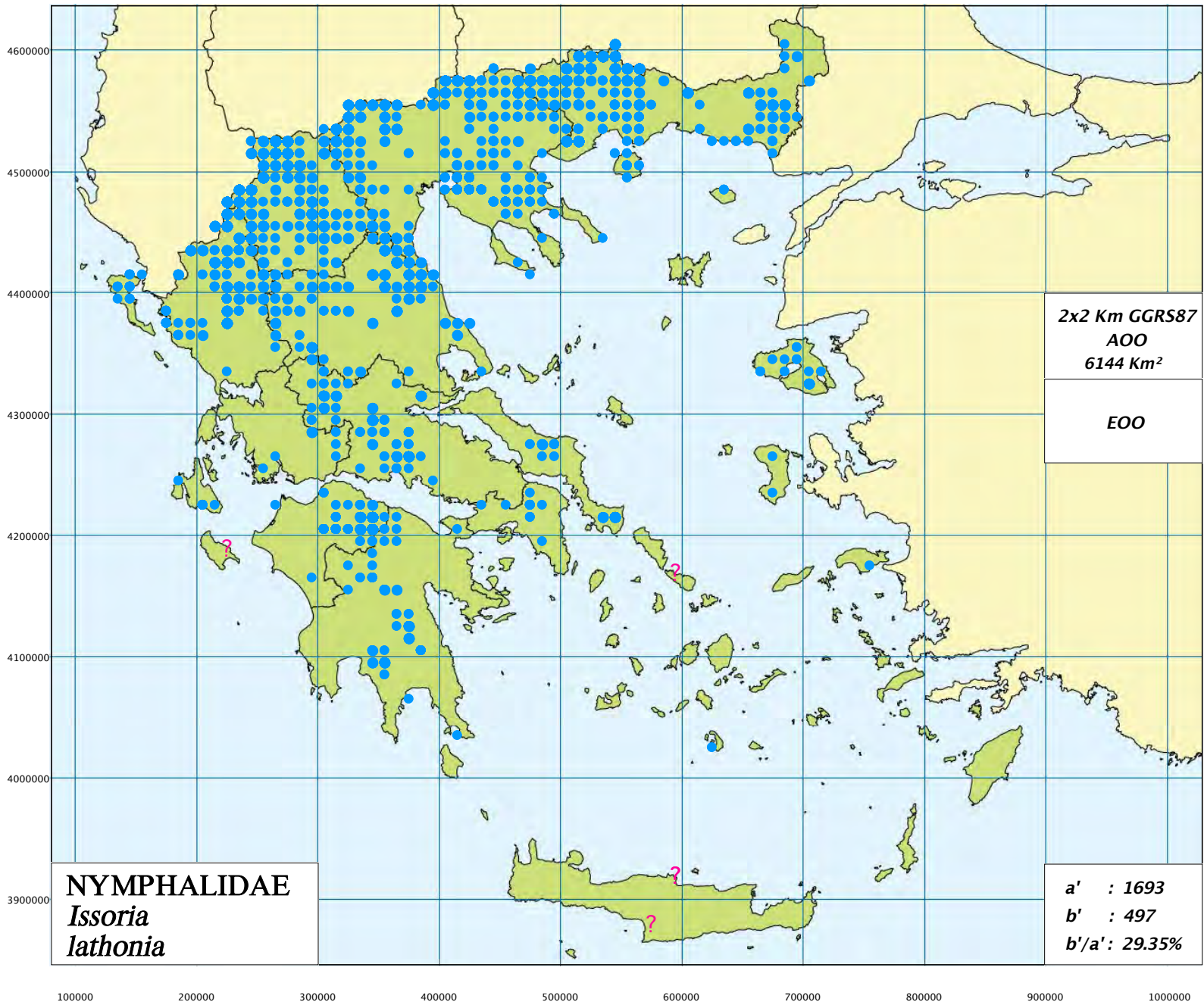




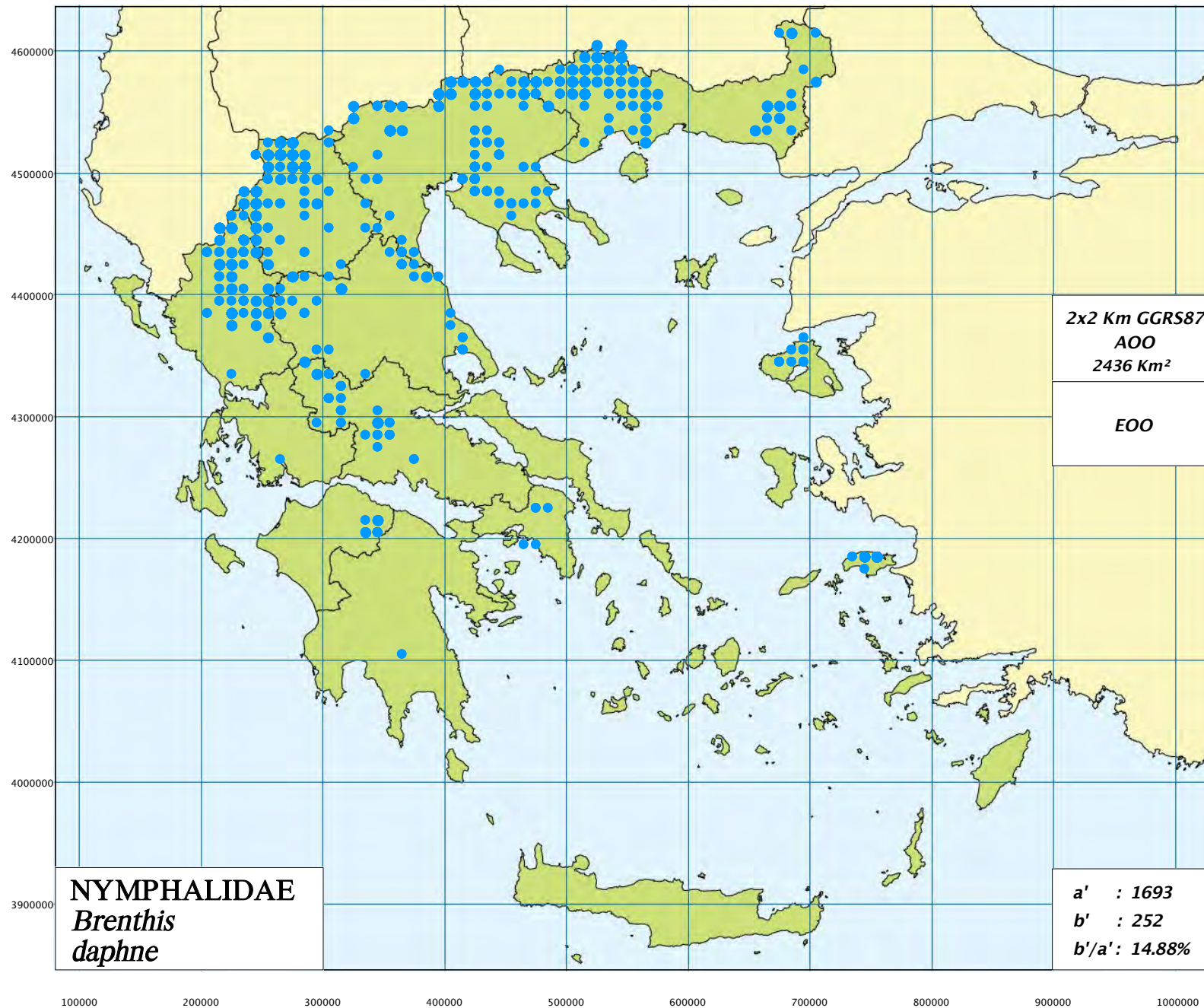


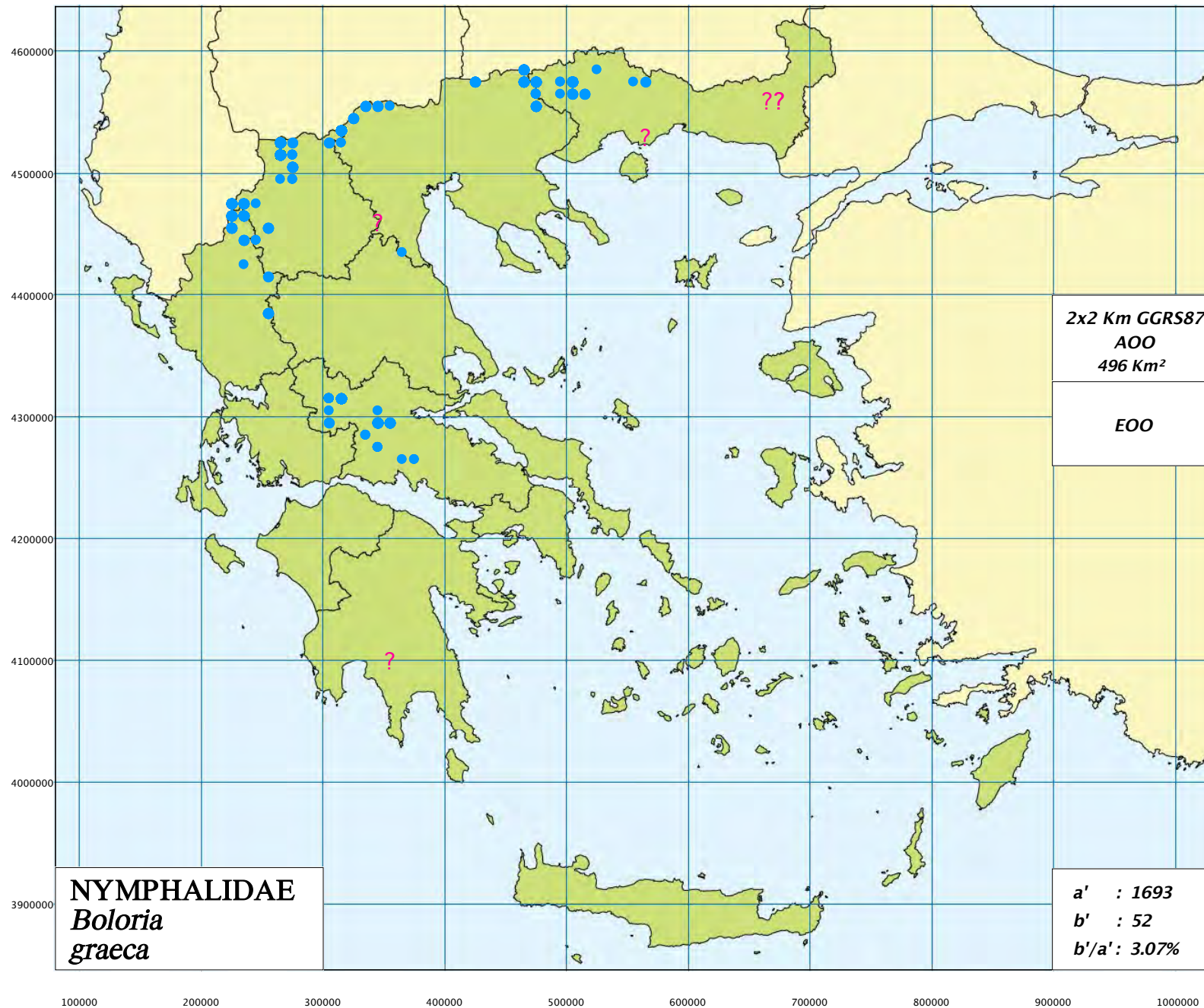


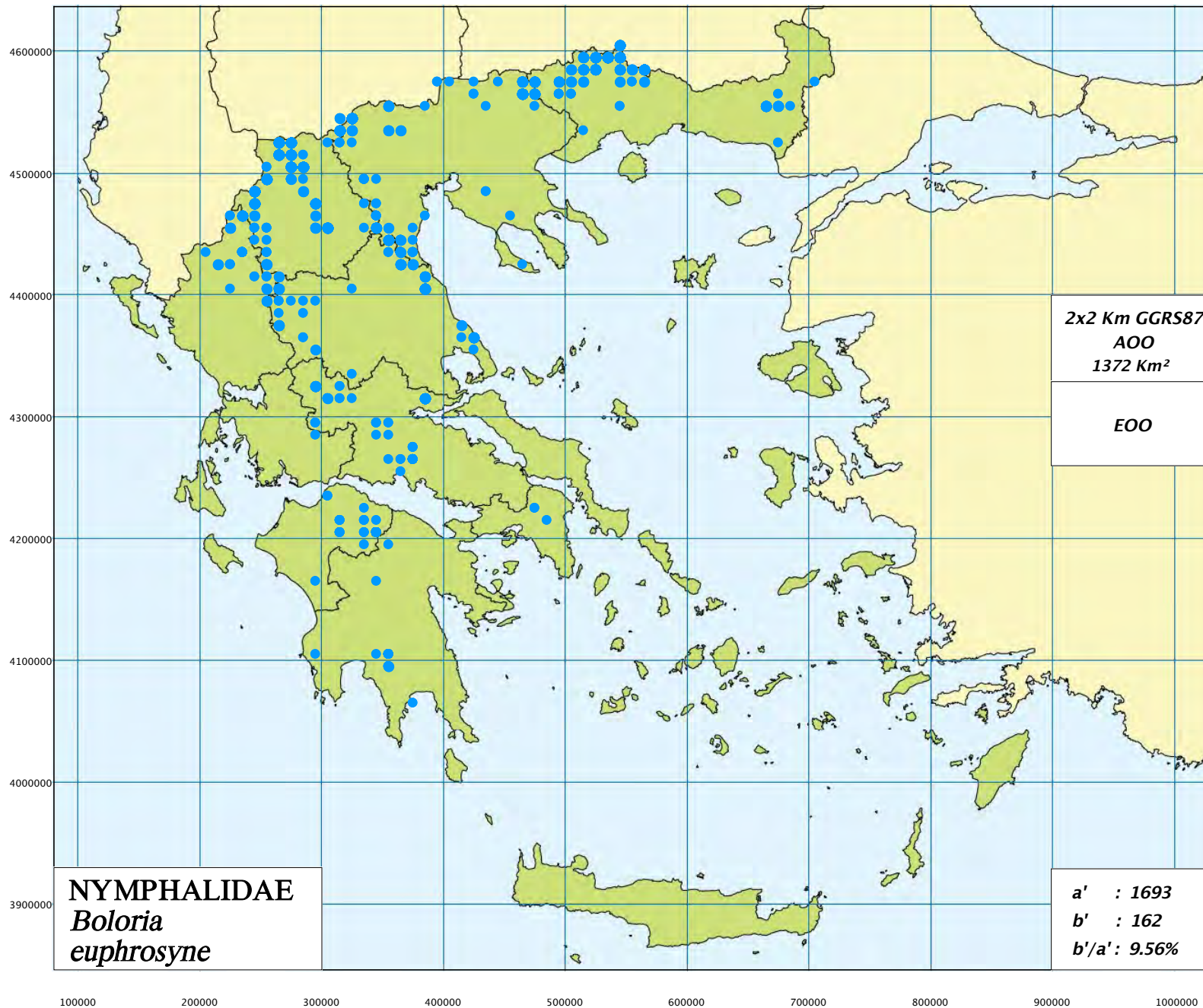


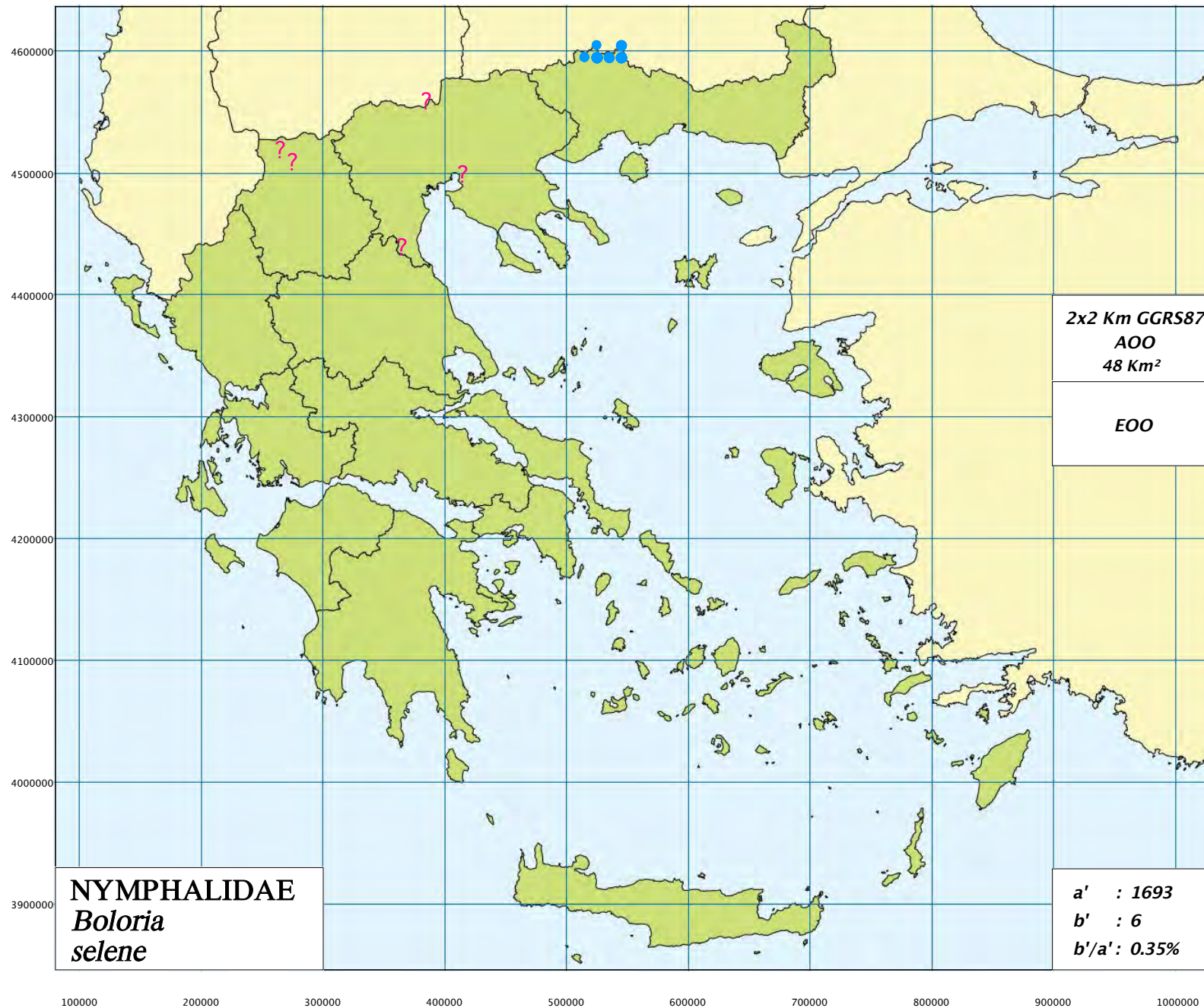


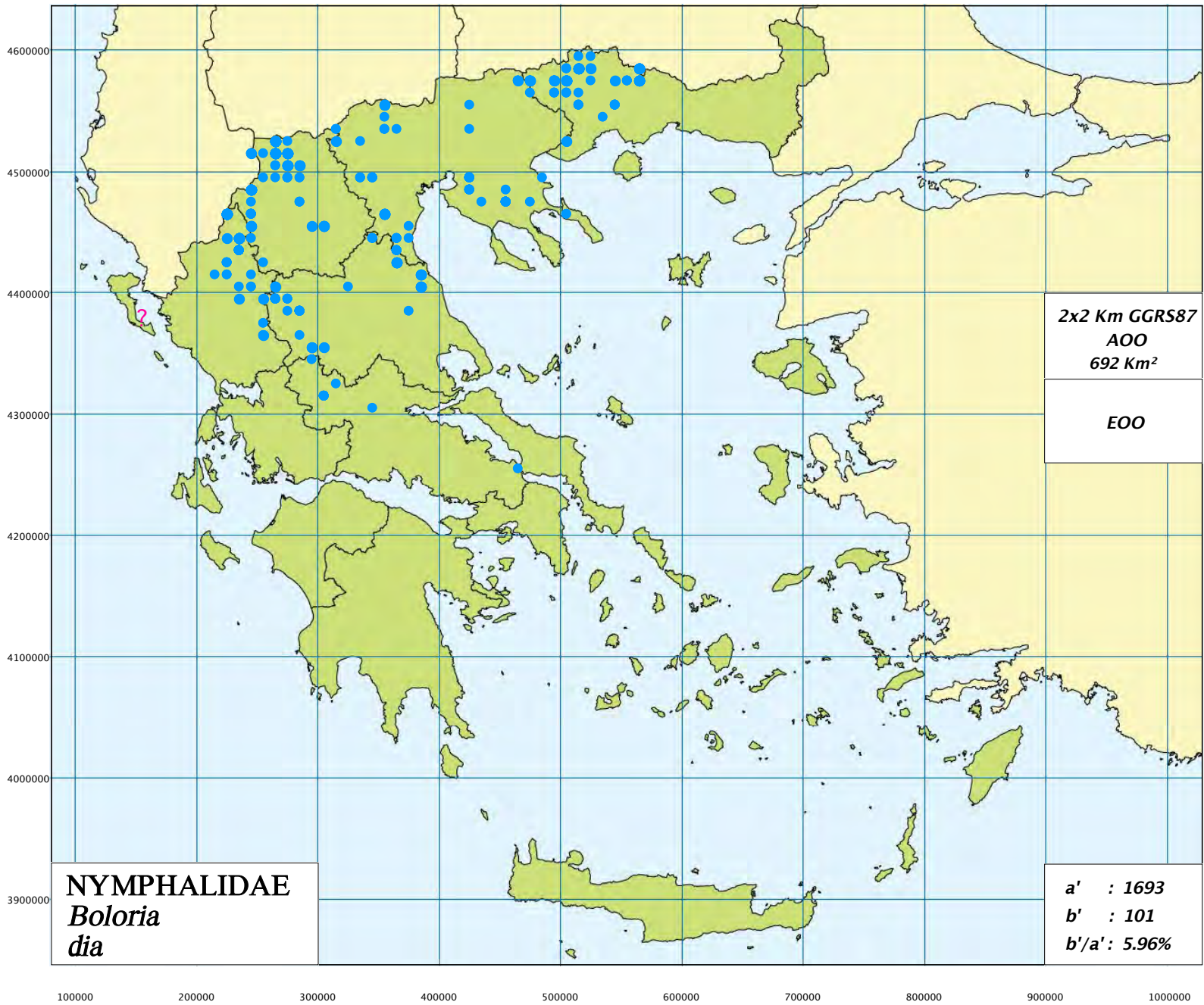


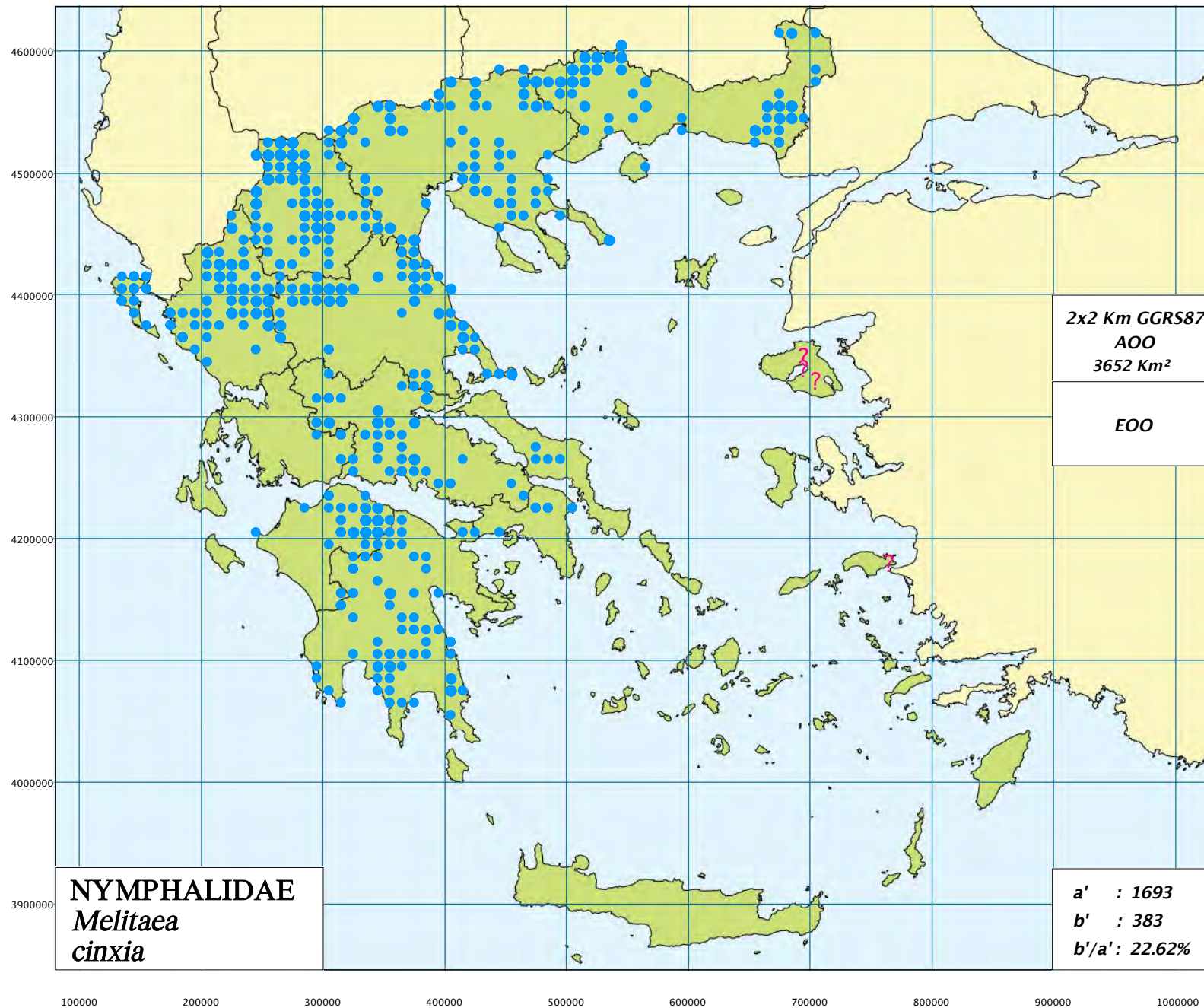


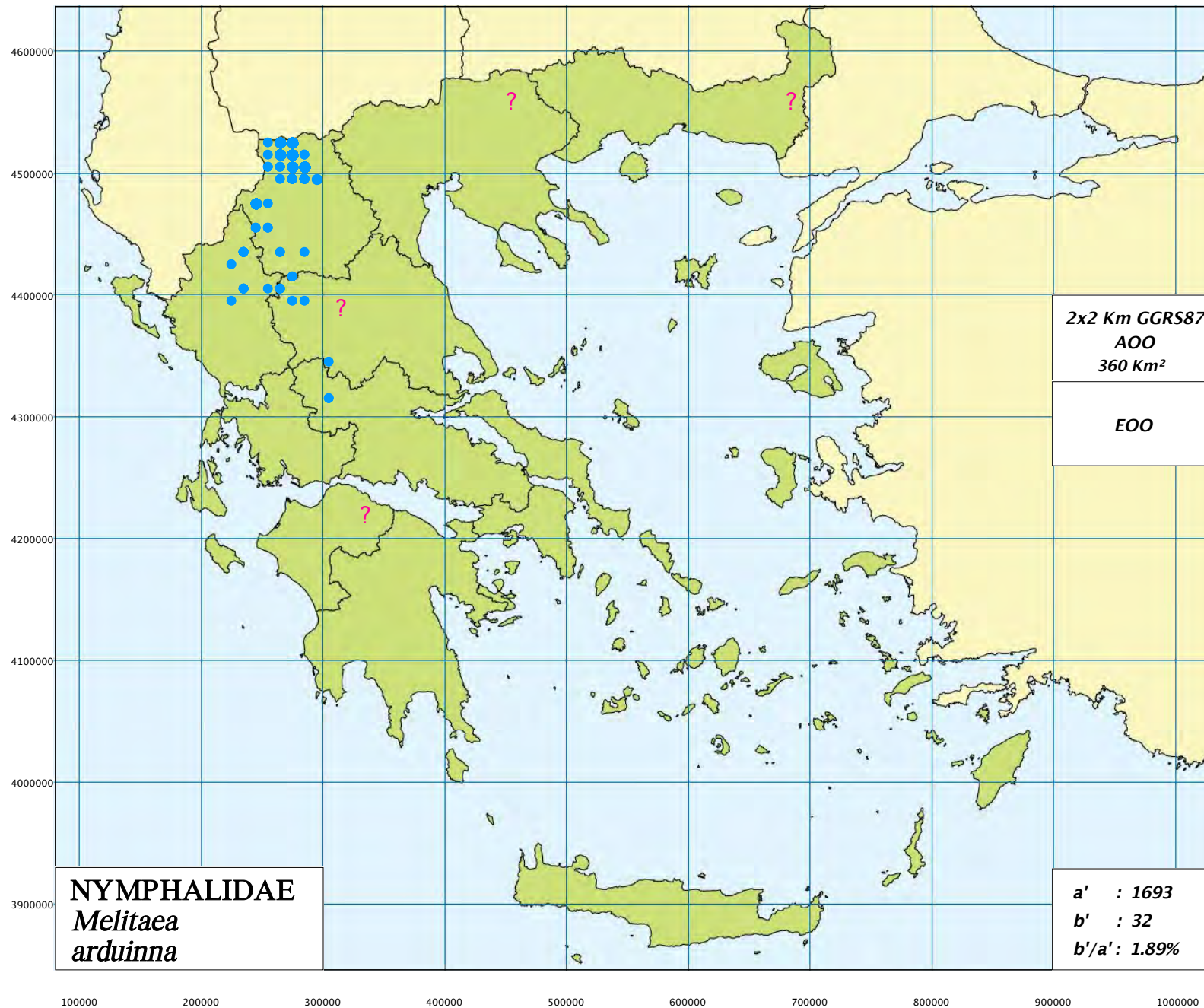


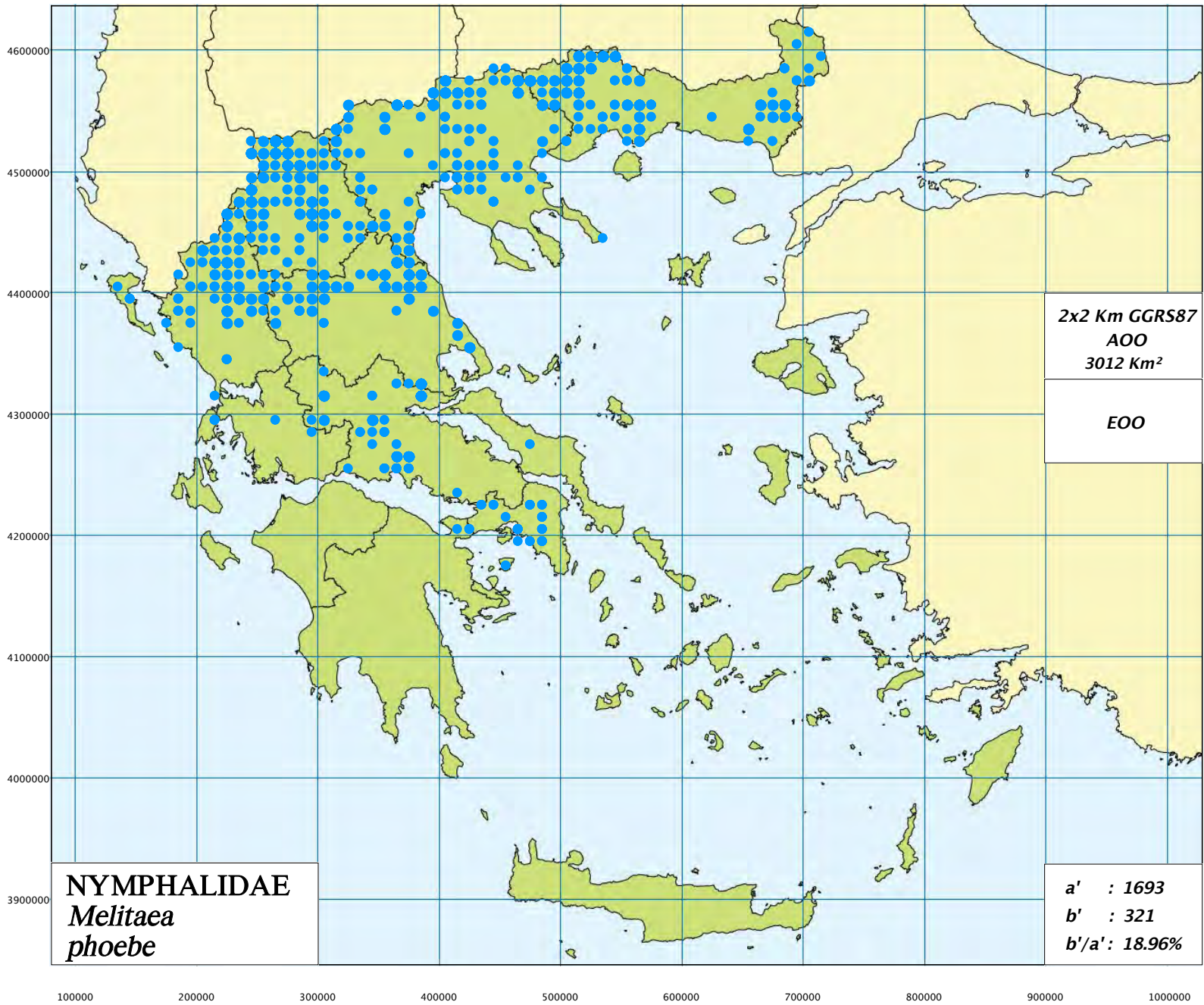


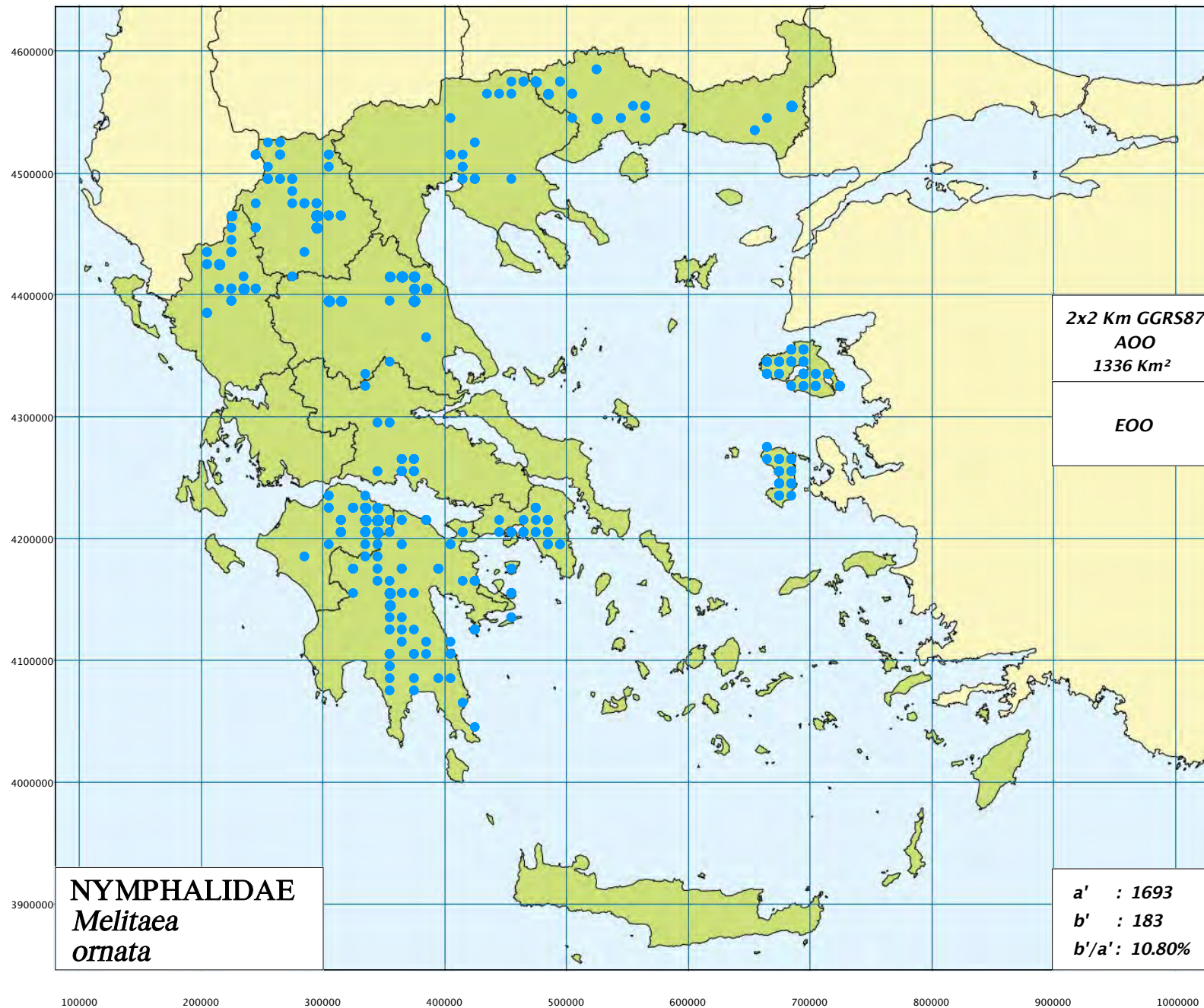


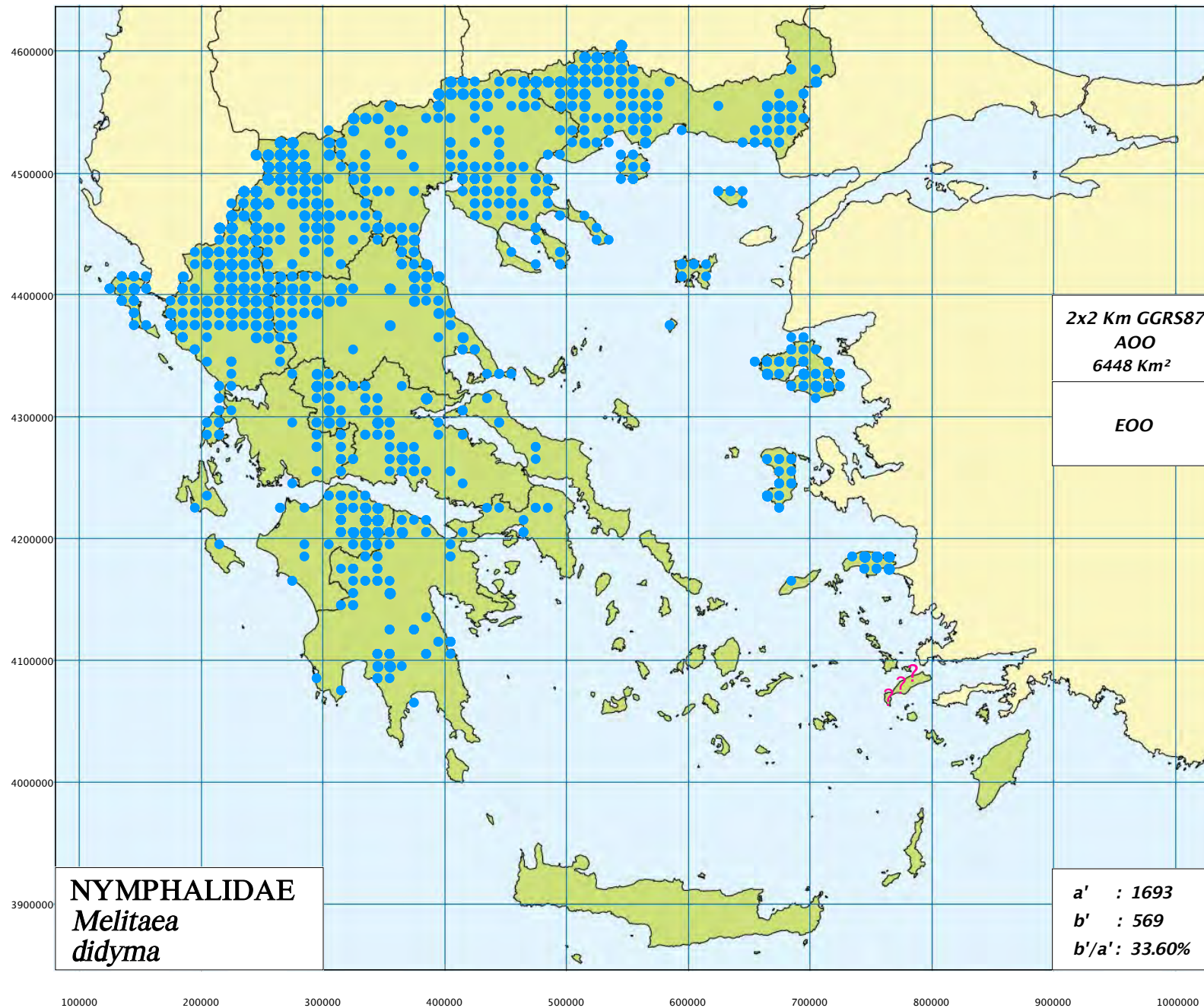


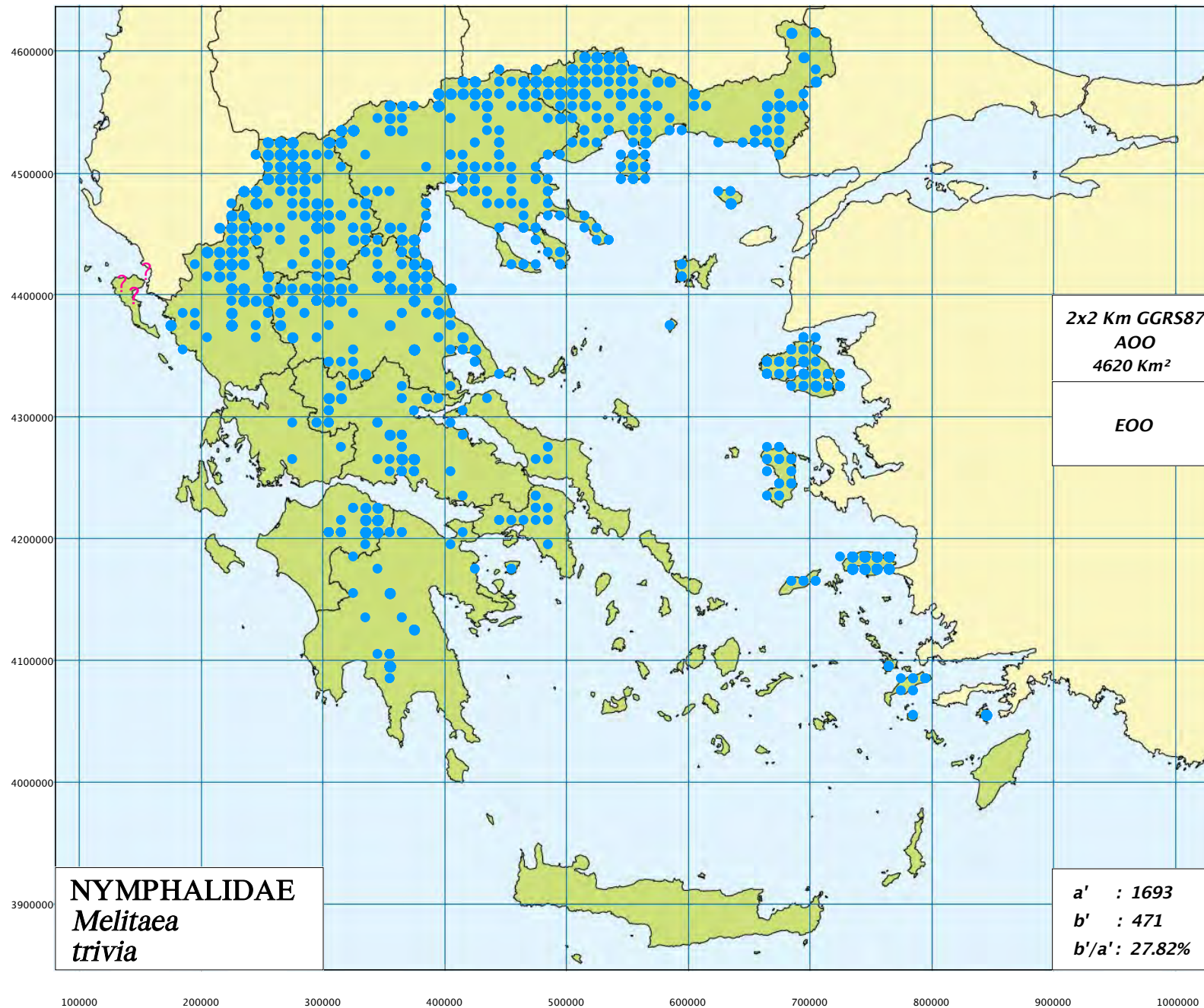


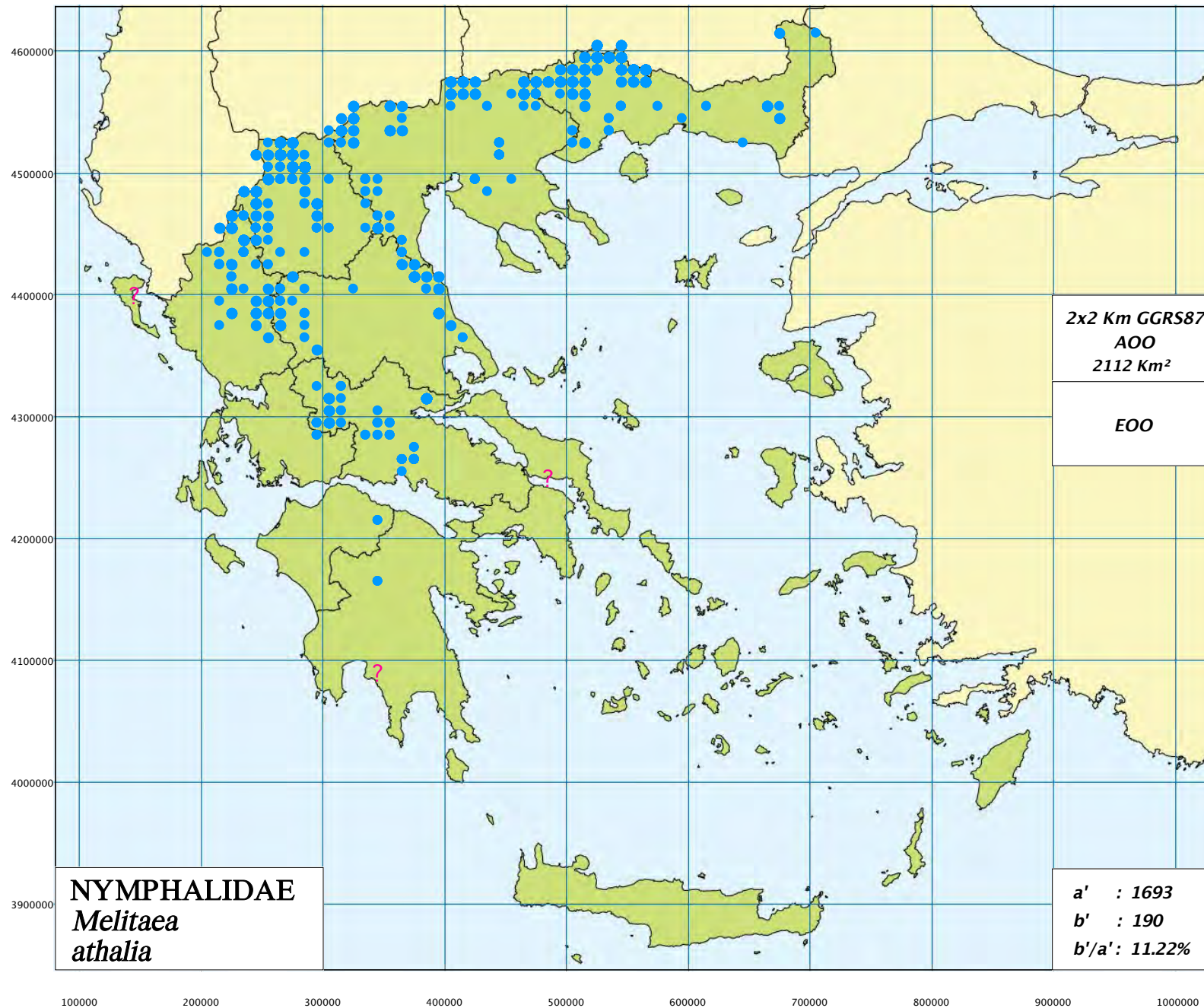


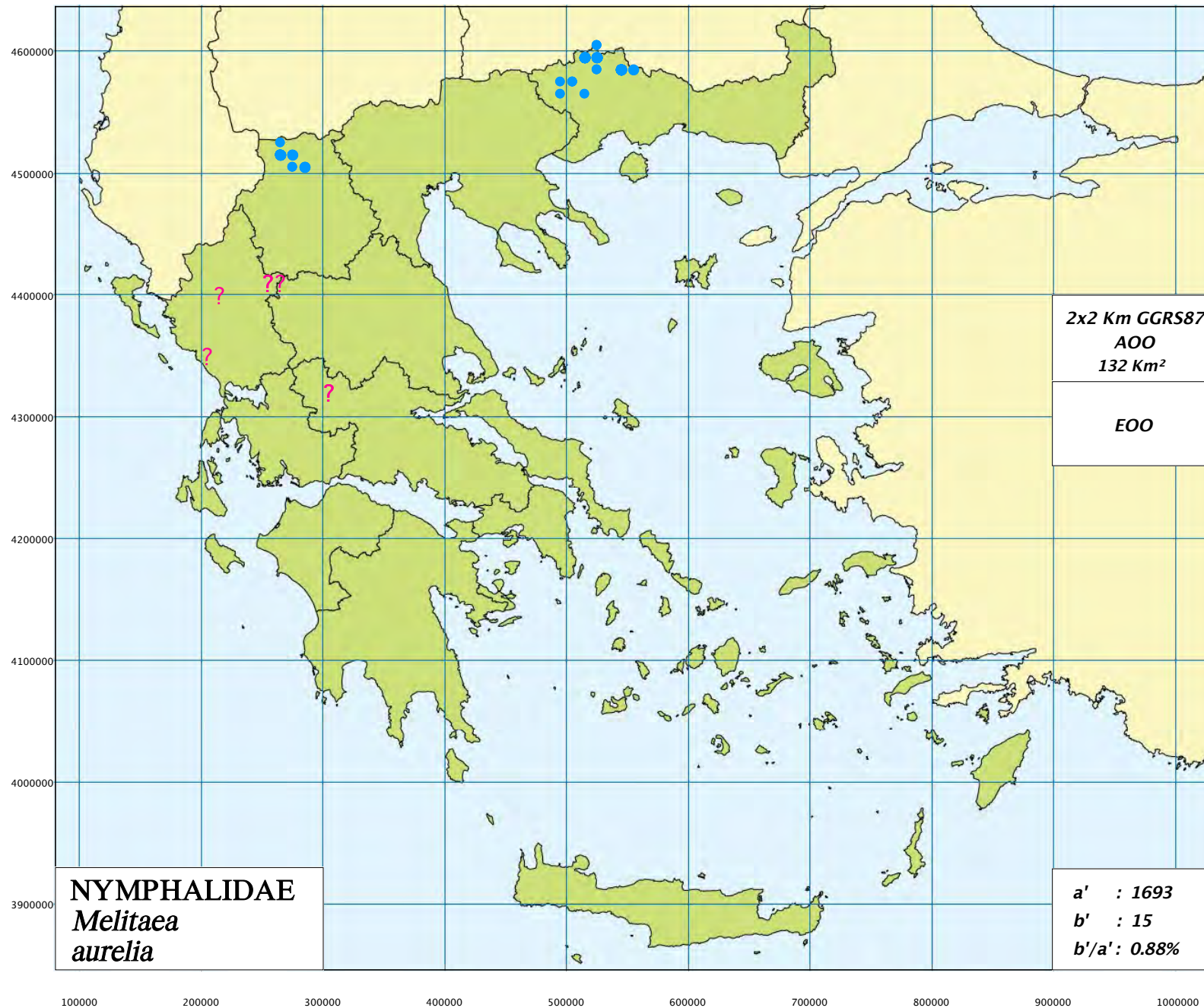


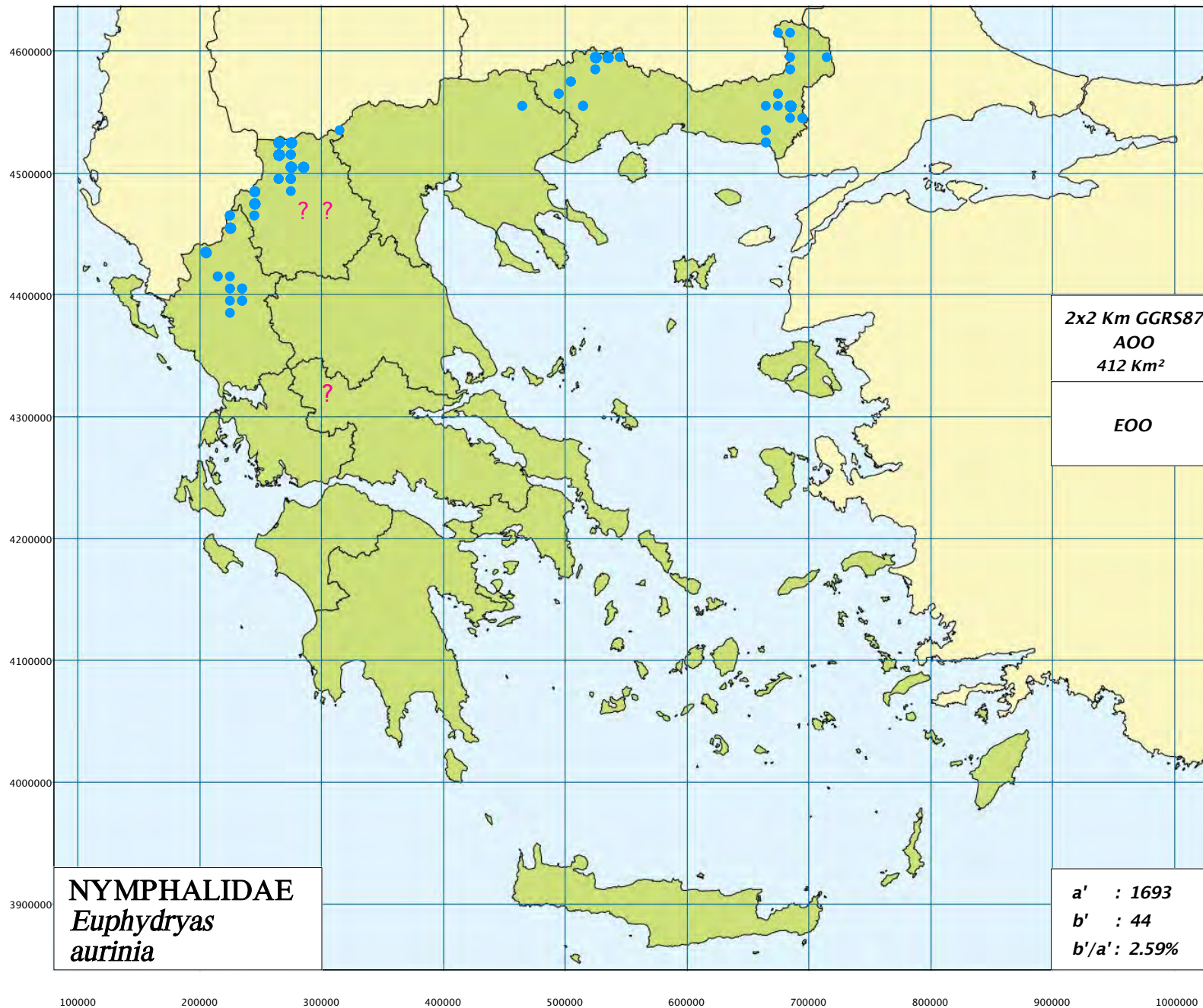


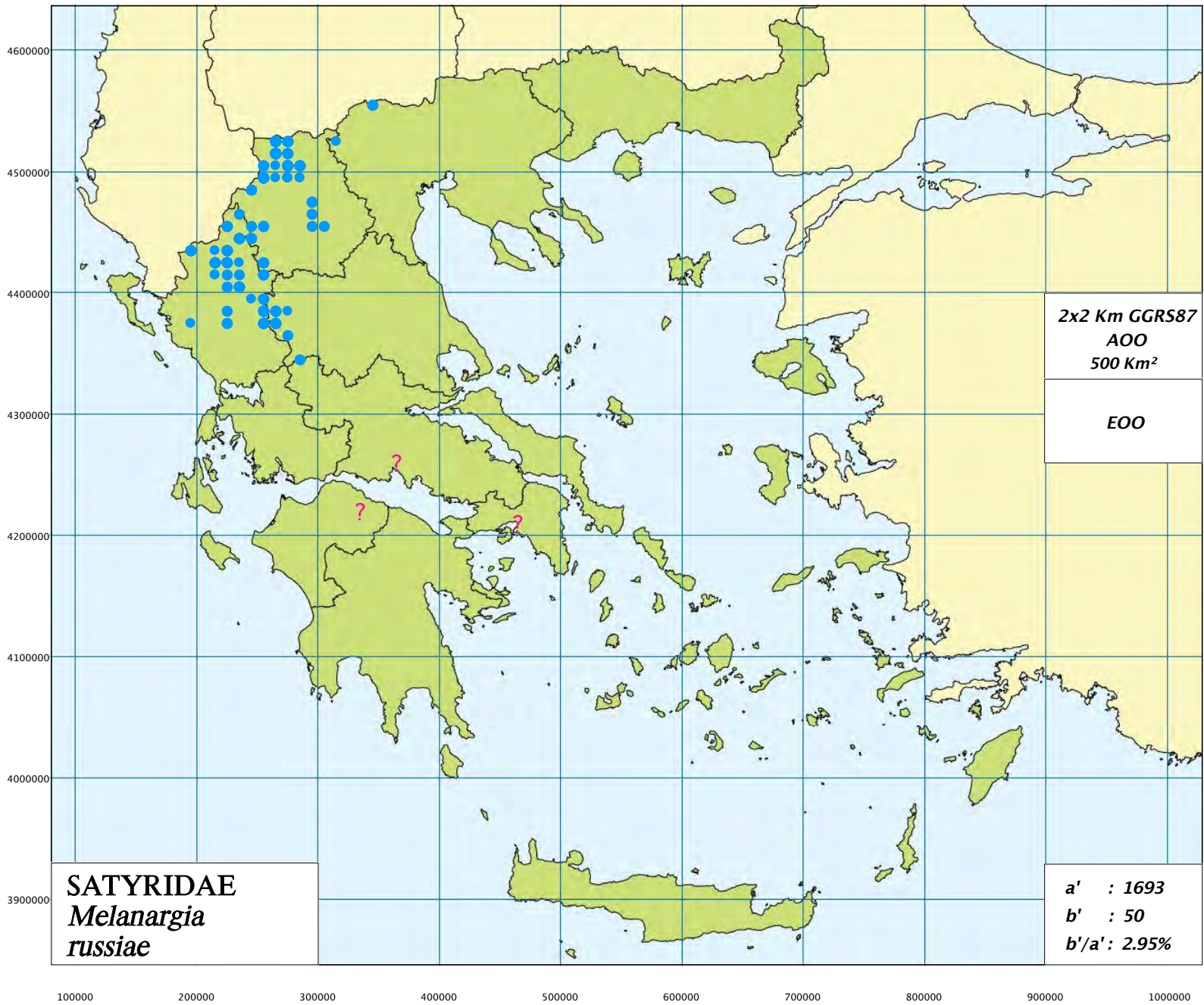


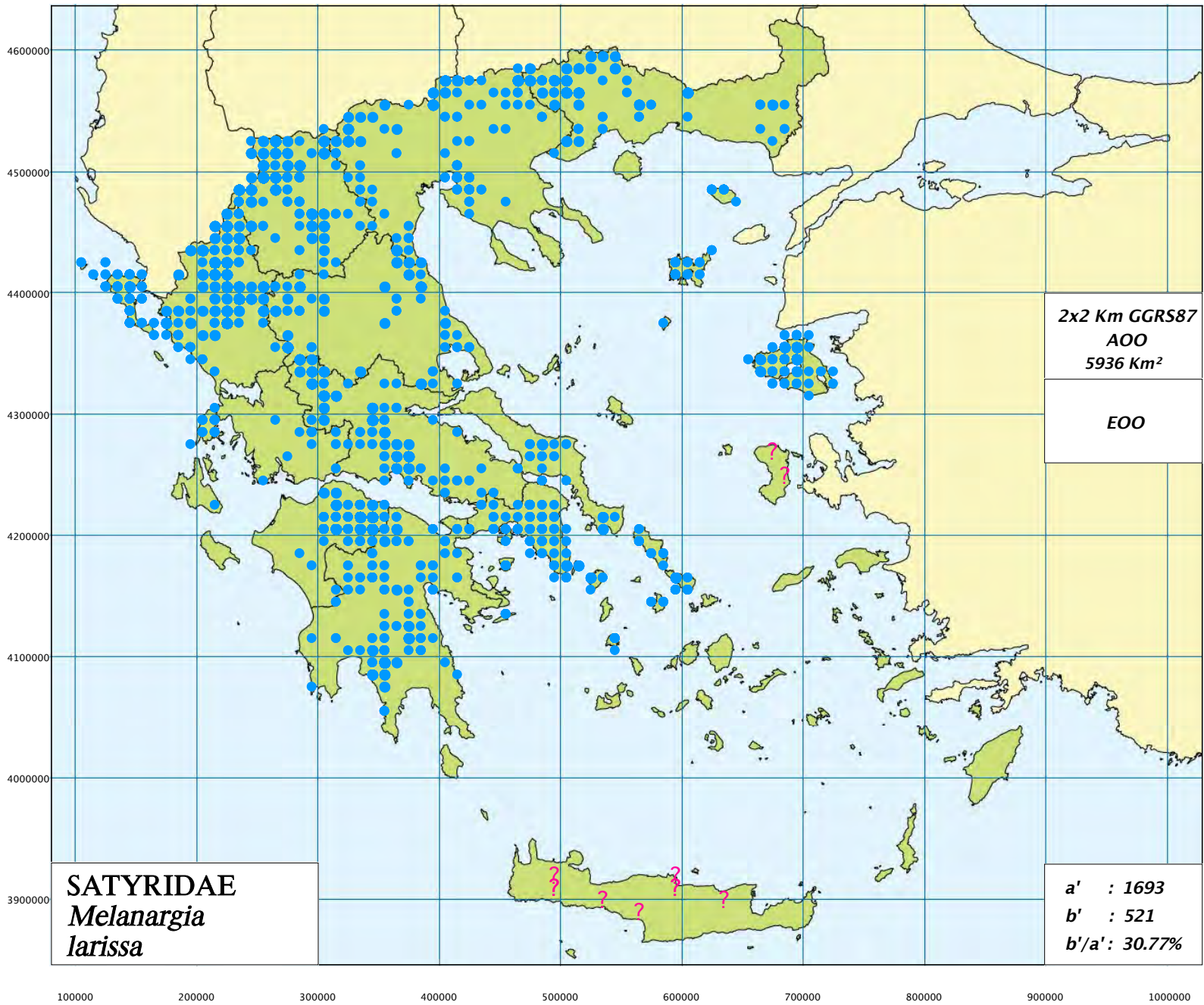


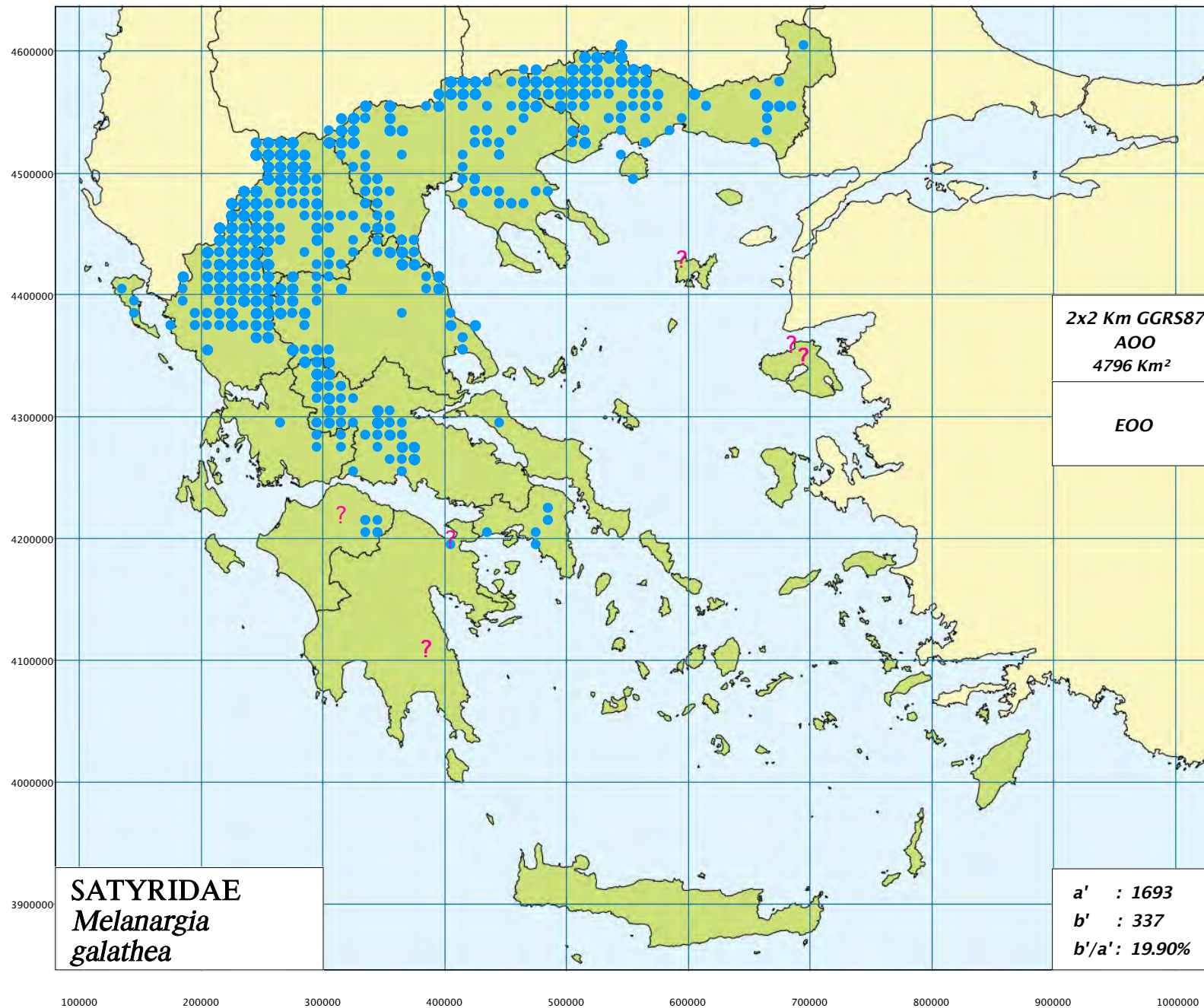


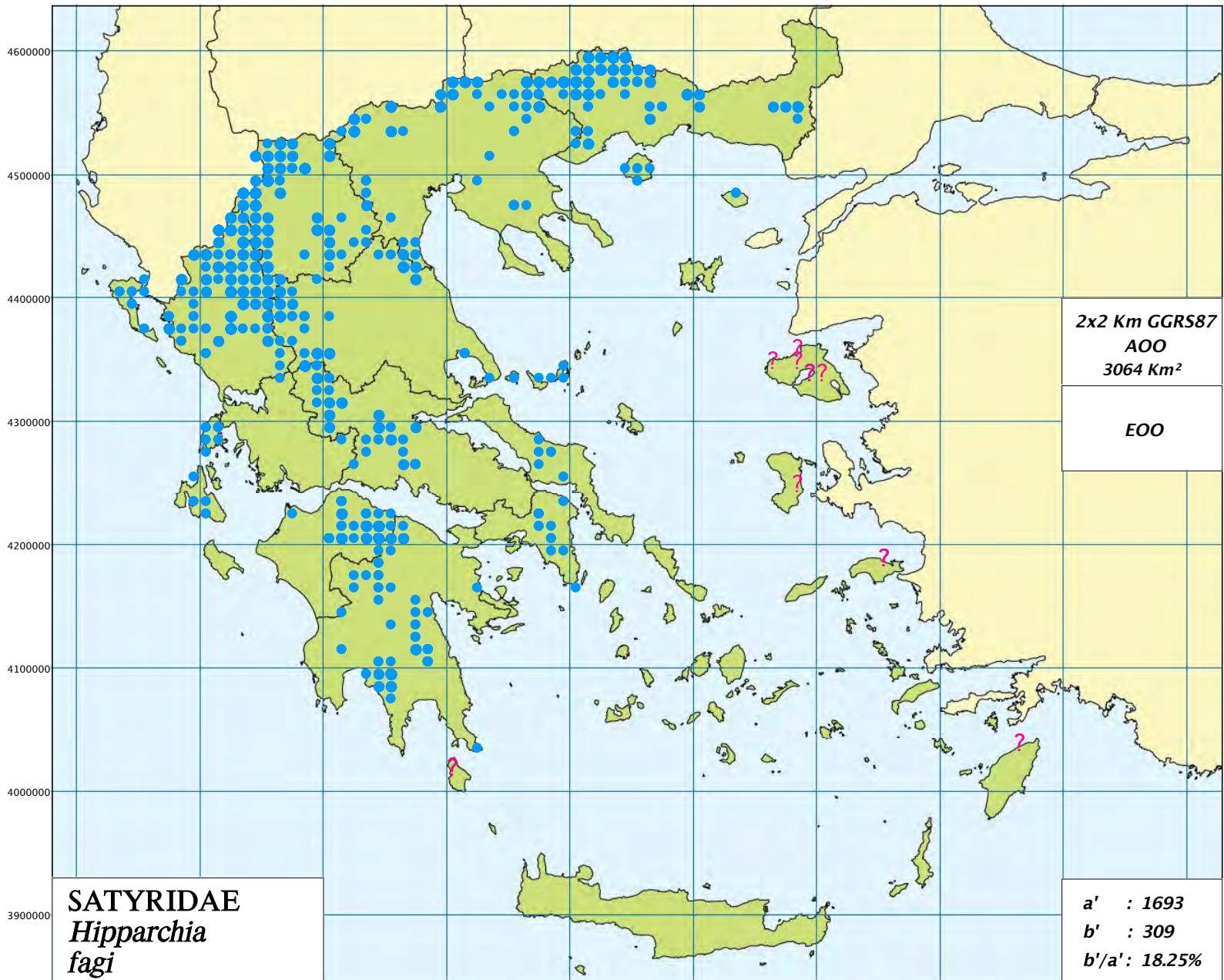


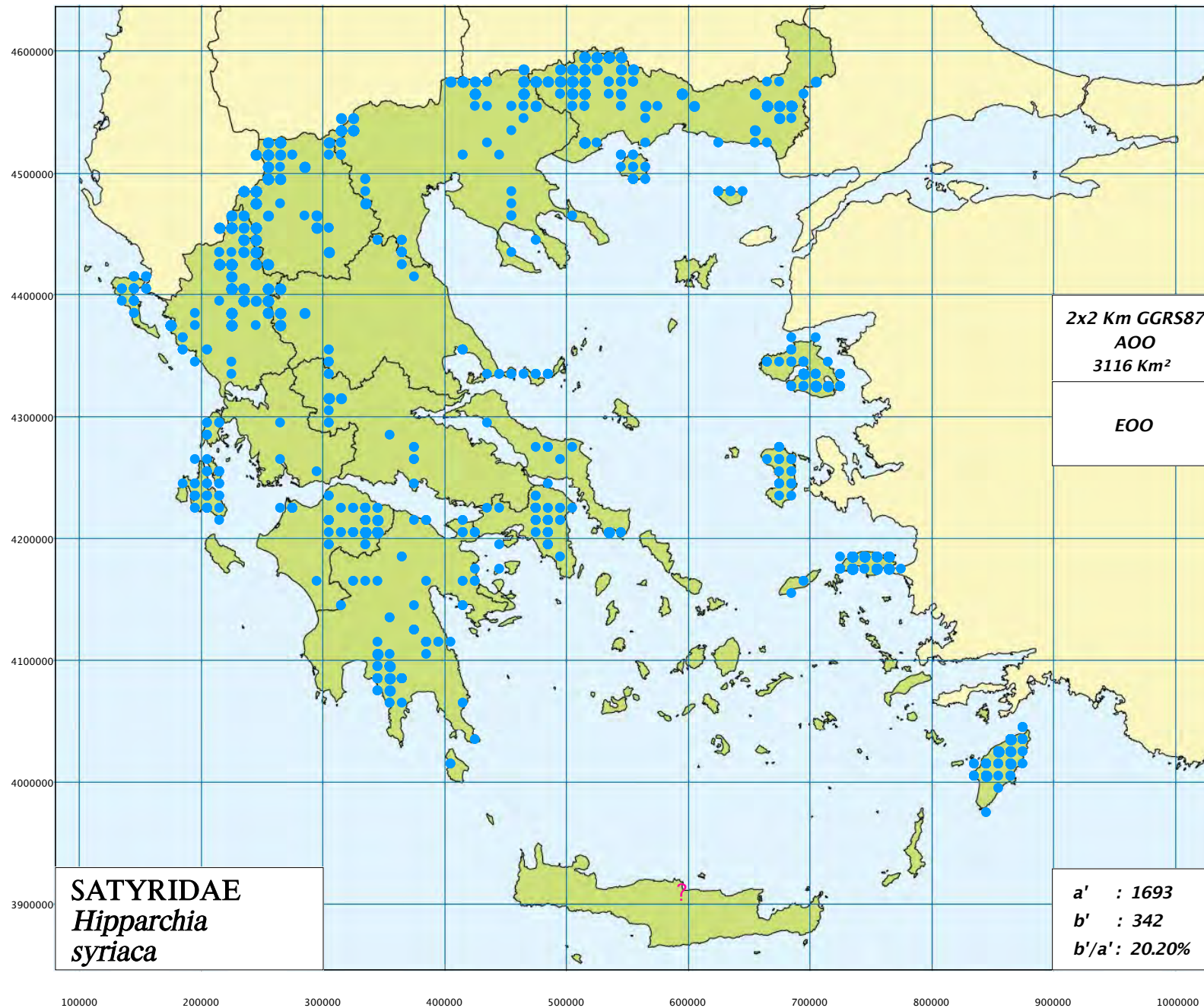


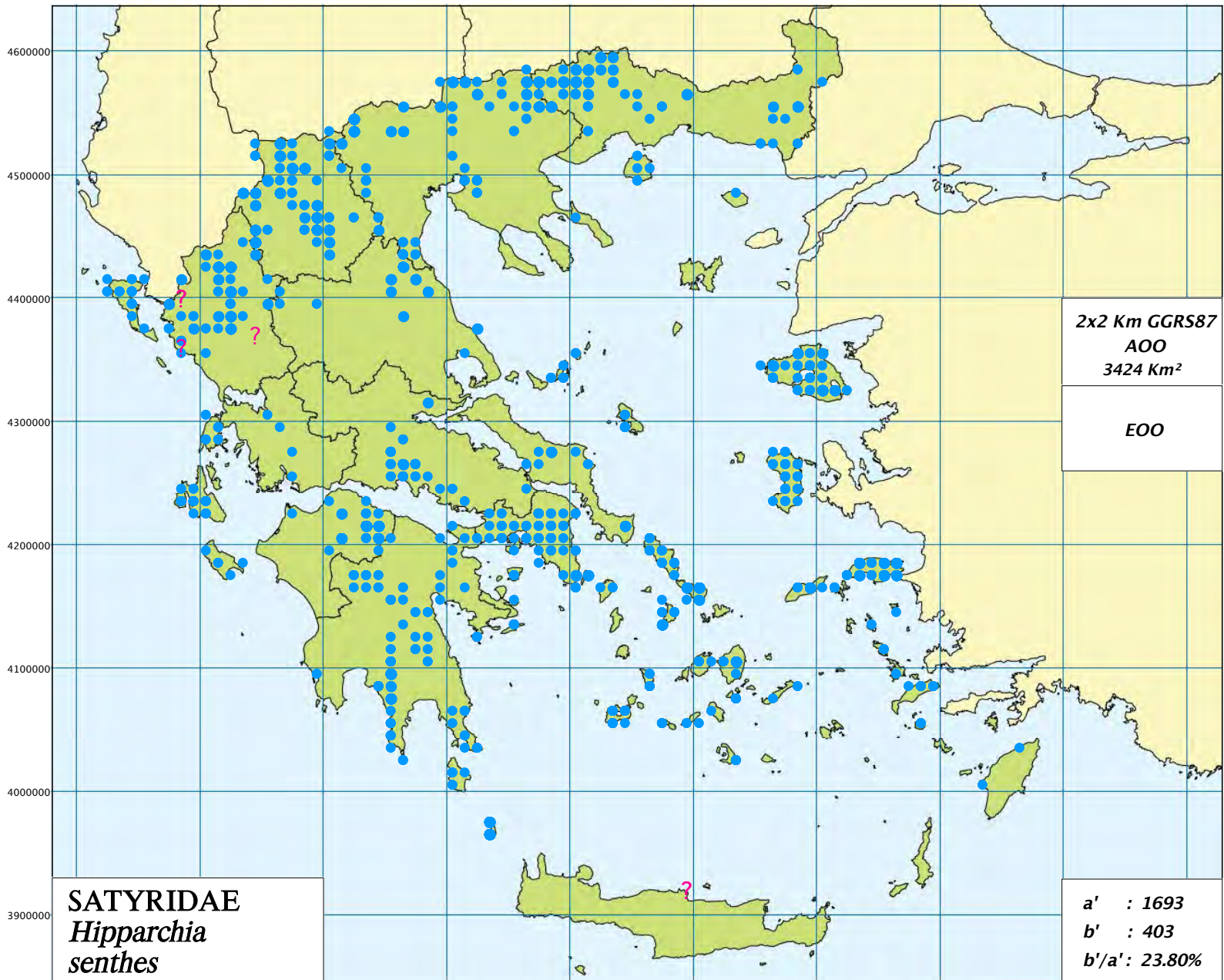


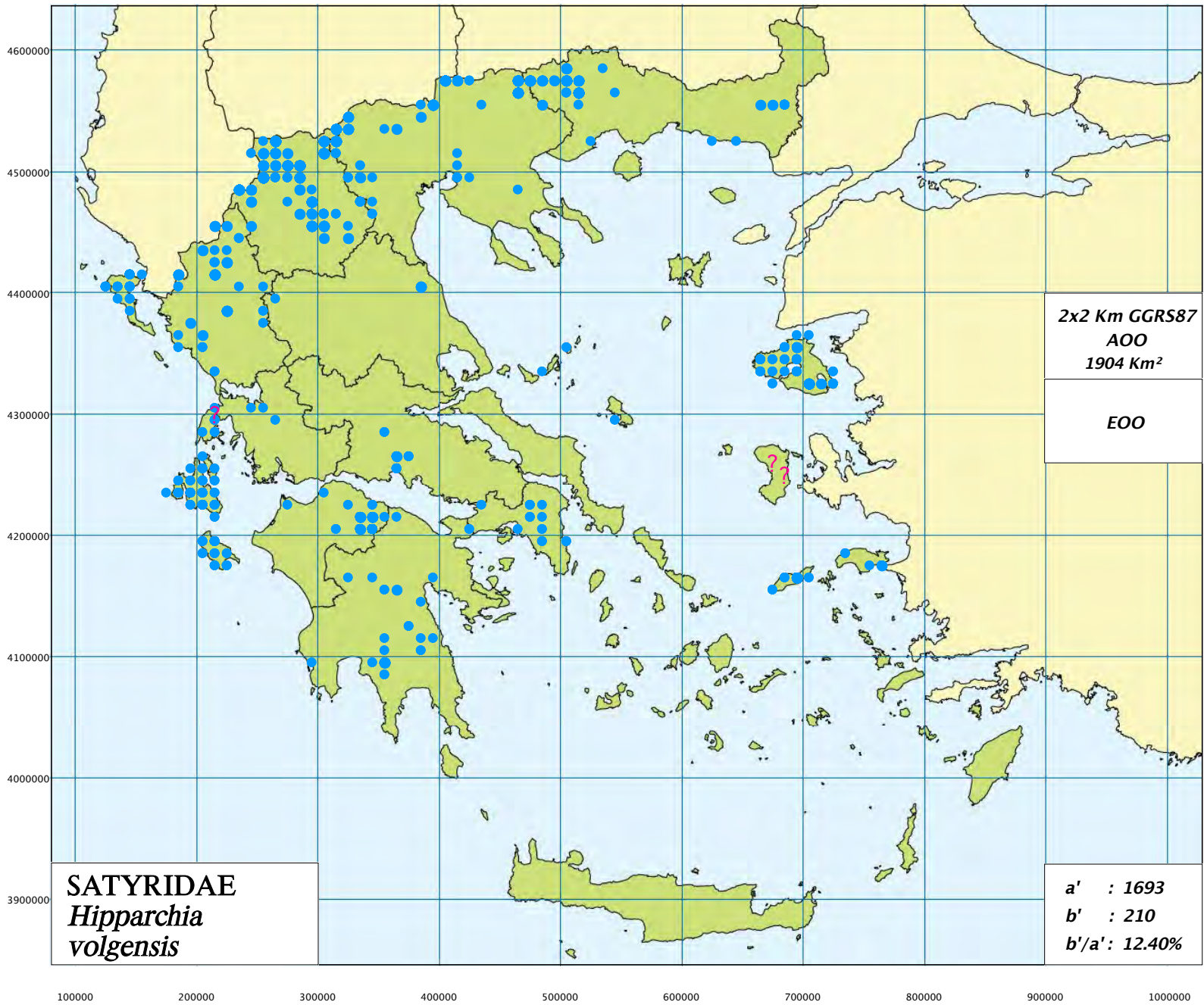








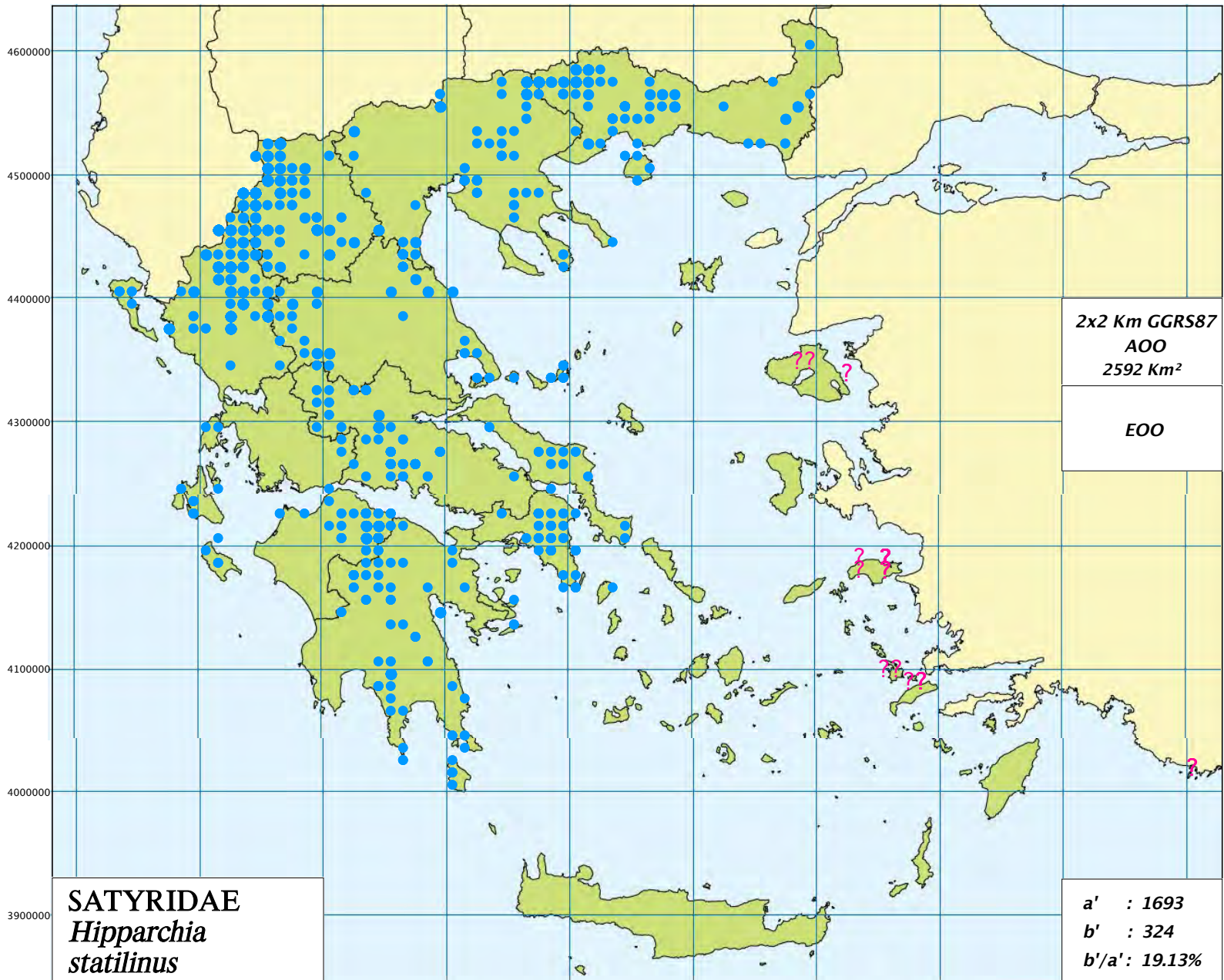


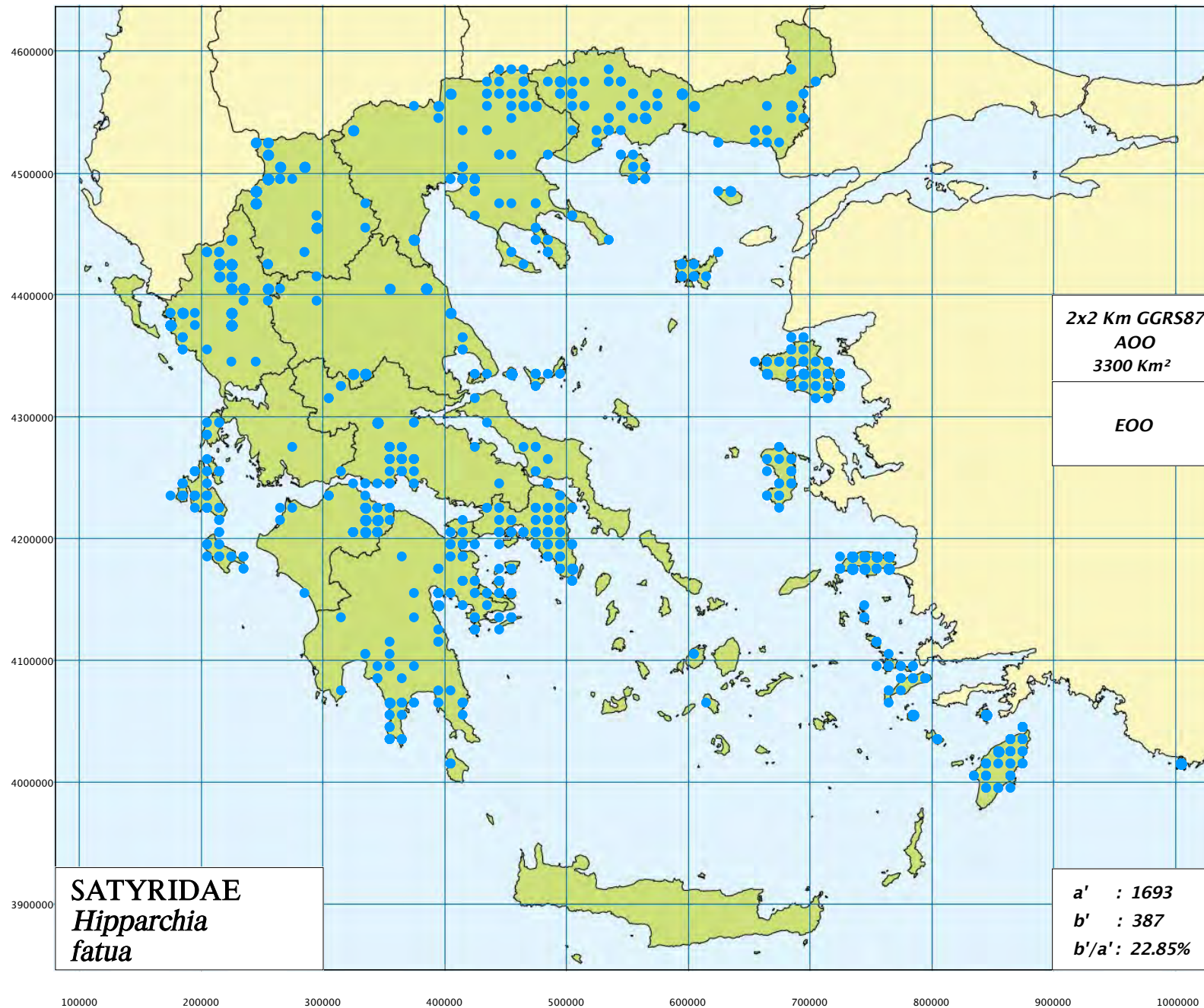


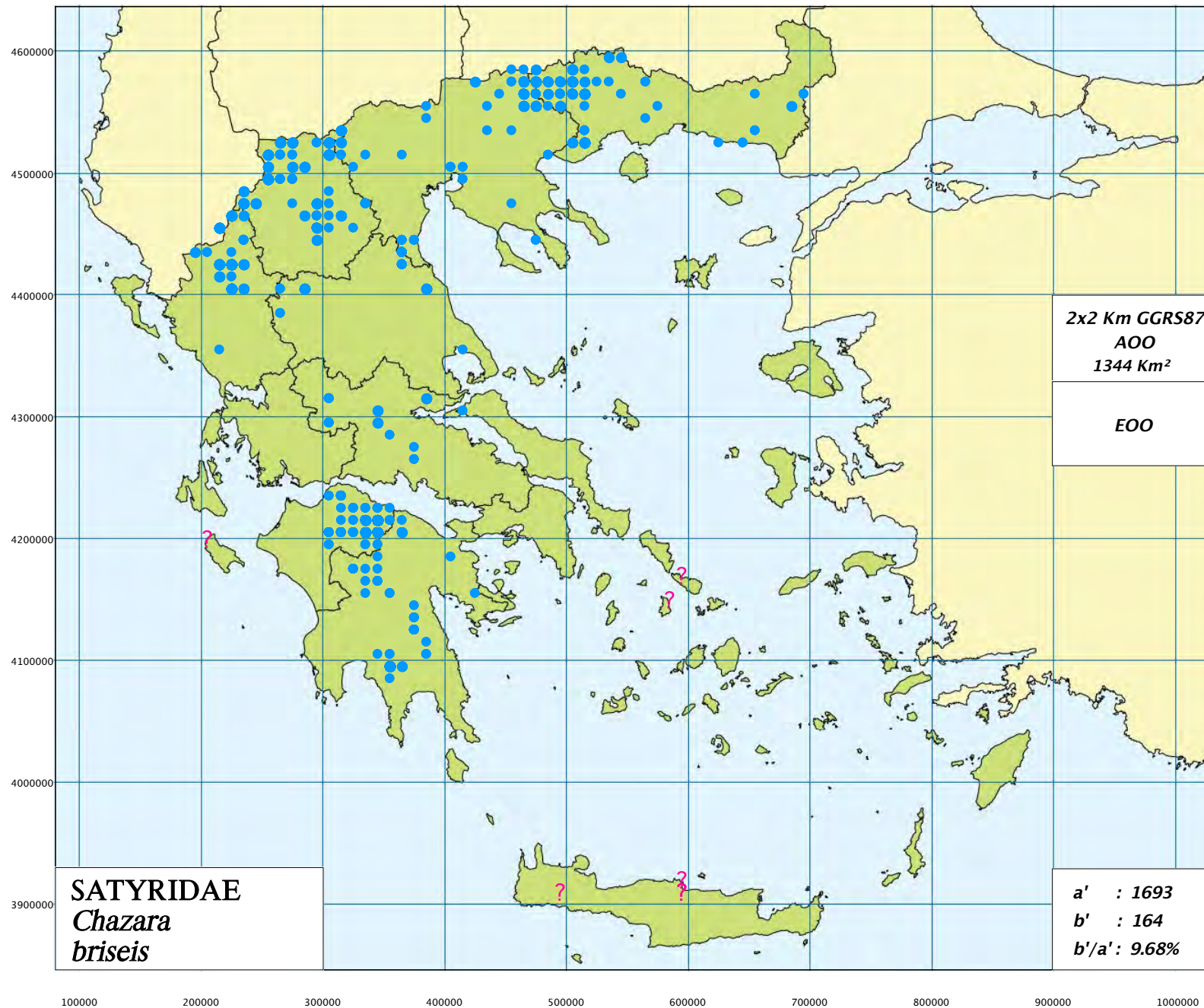






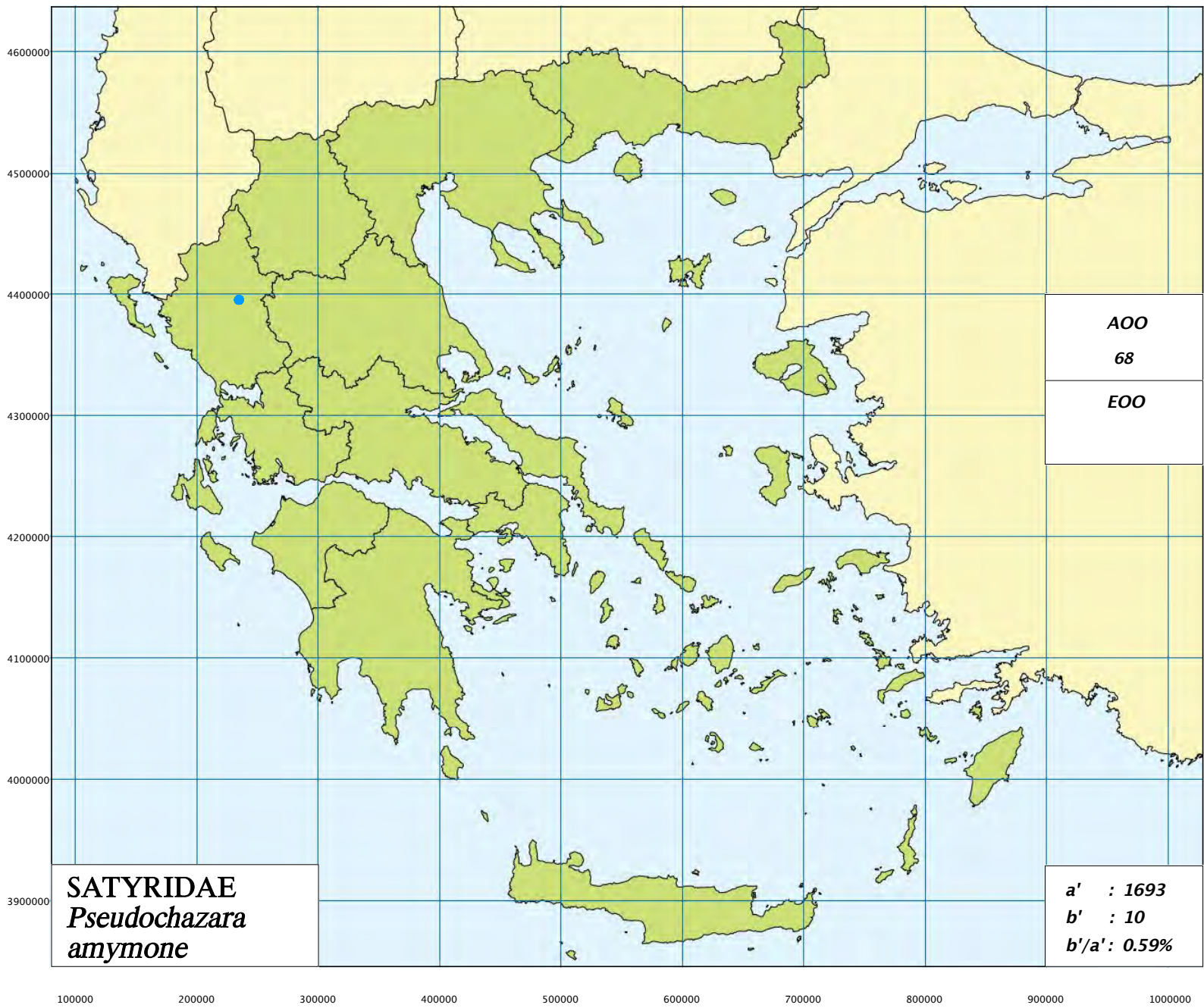








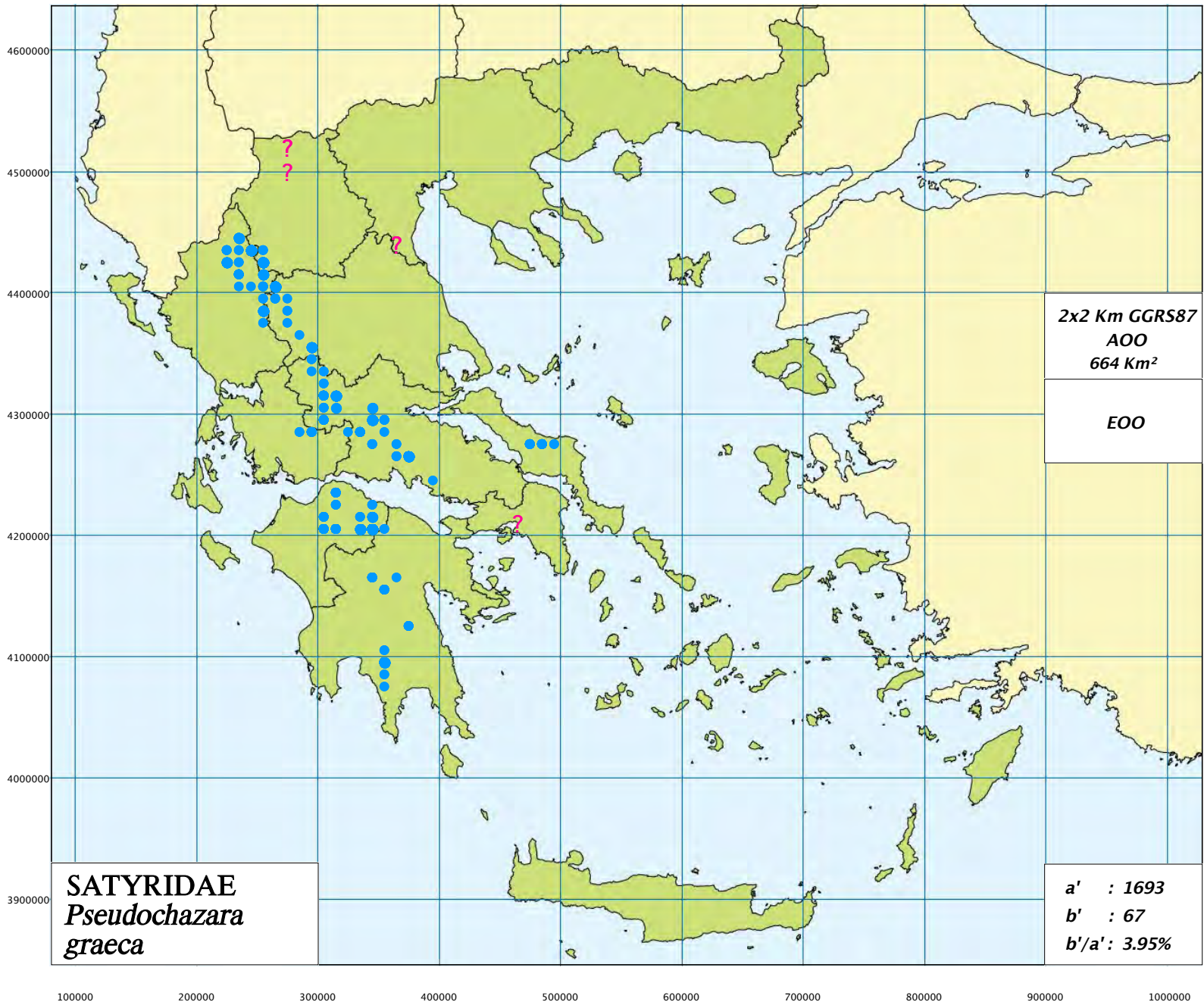


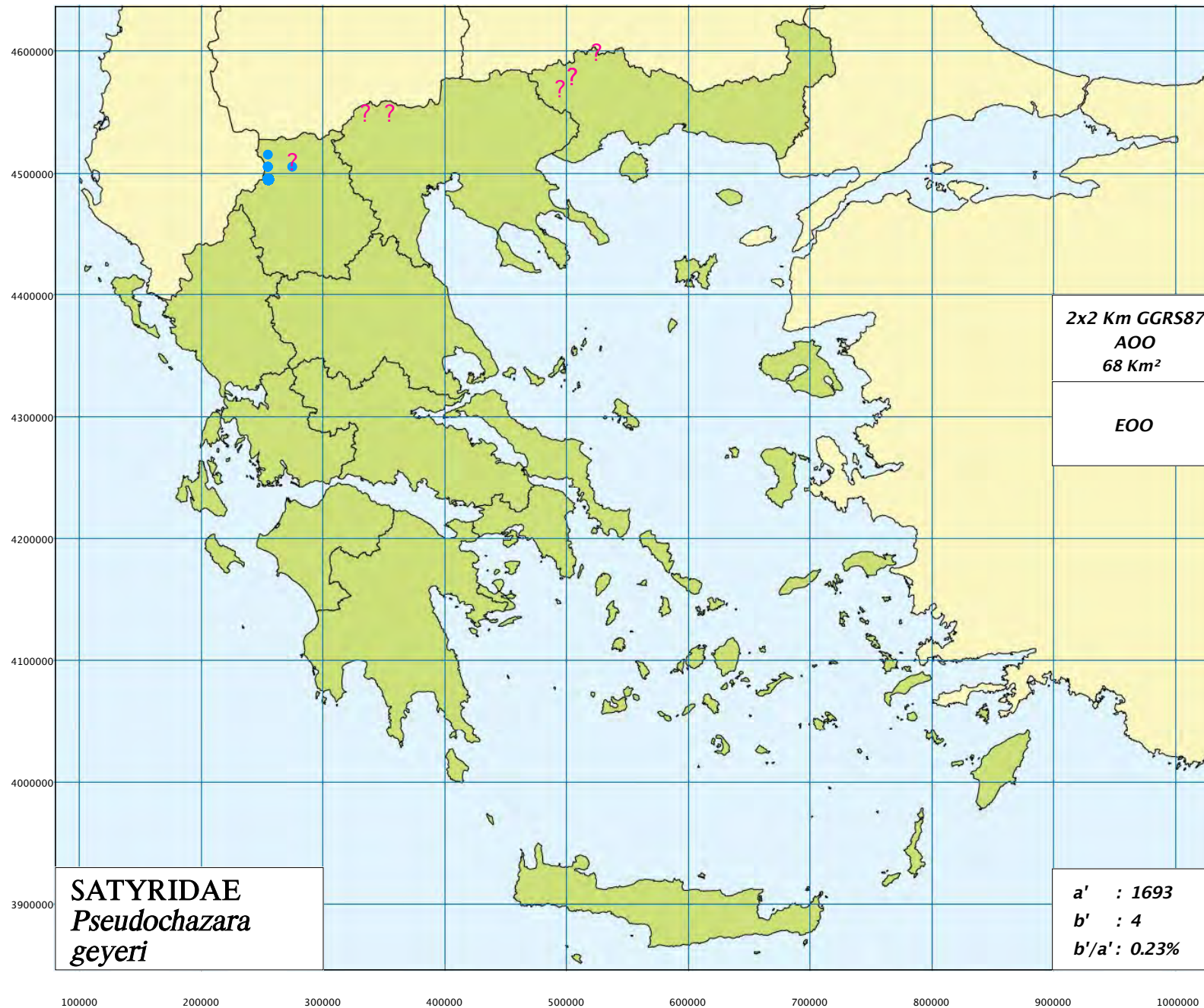


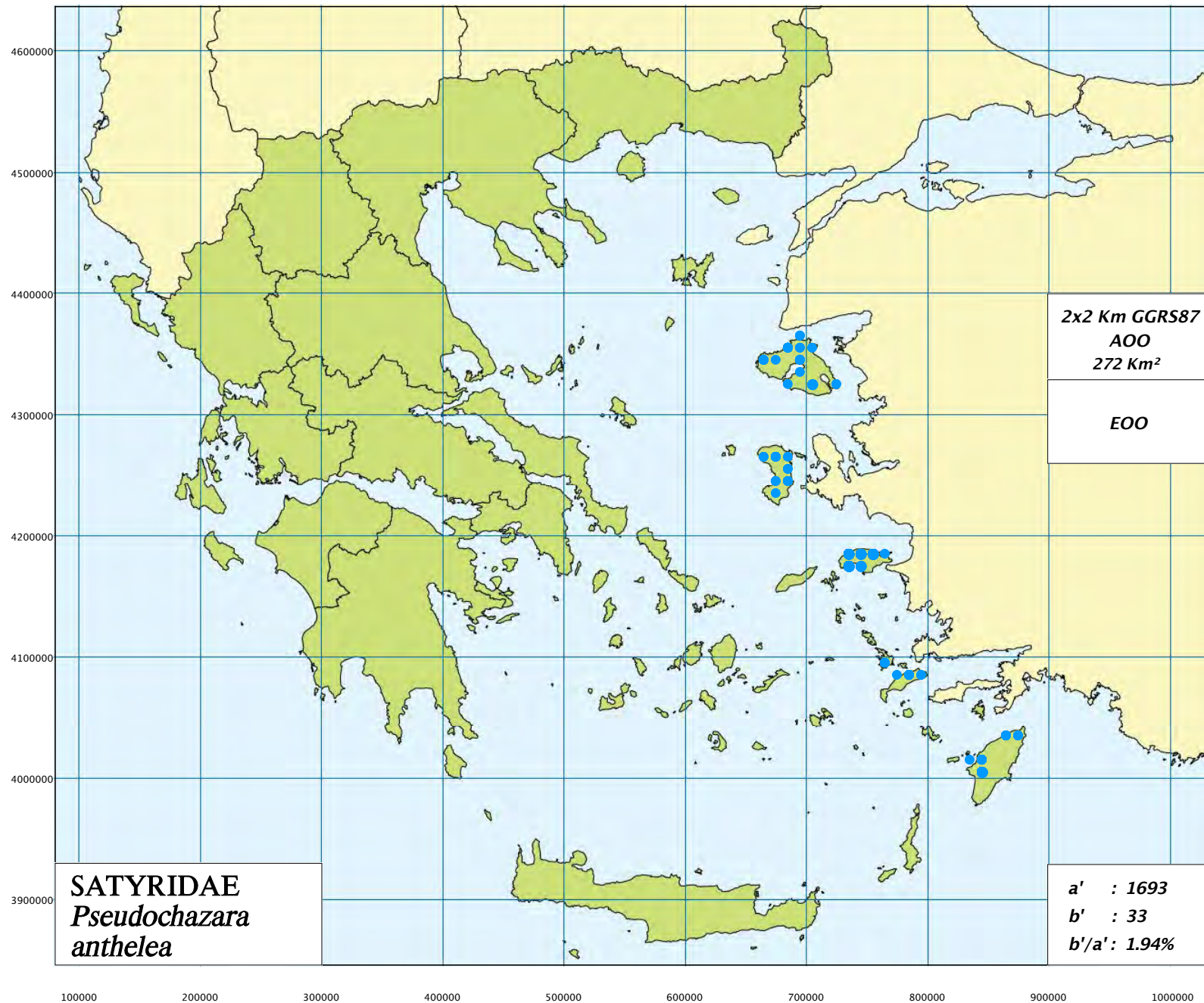
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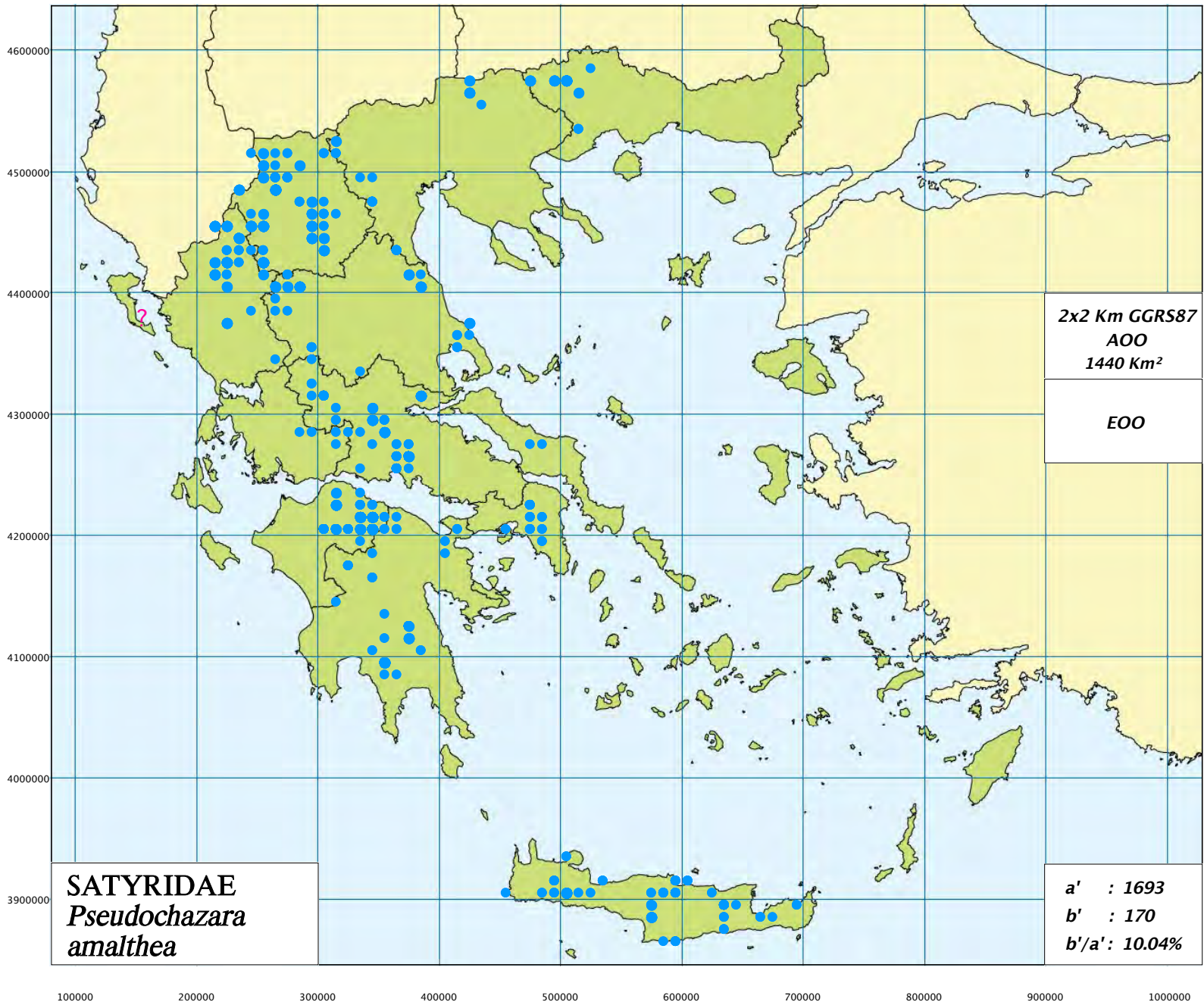
AOO
68
EOO

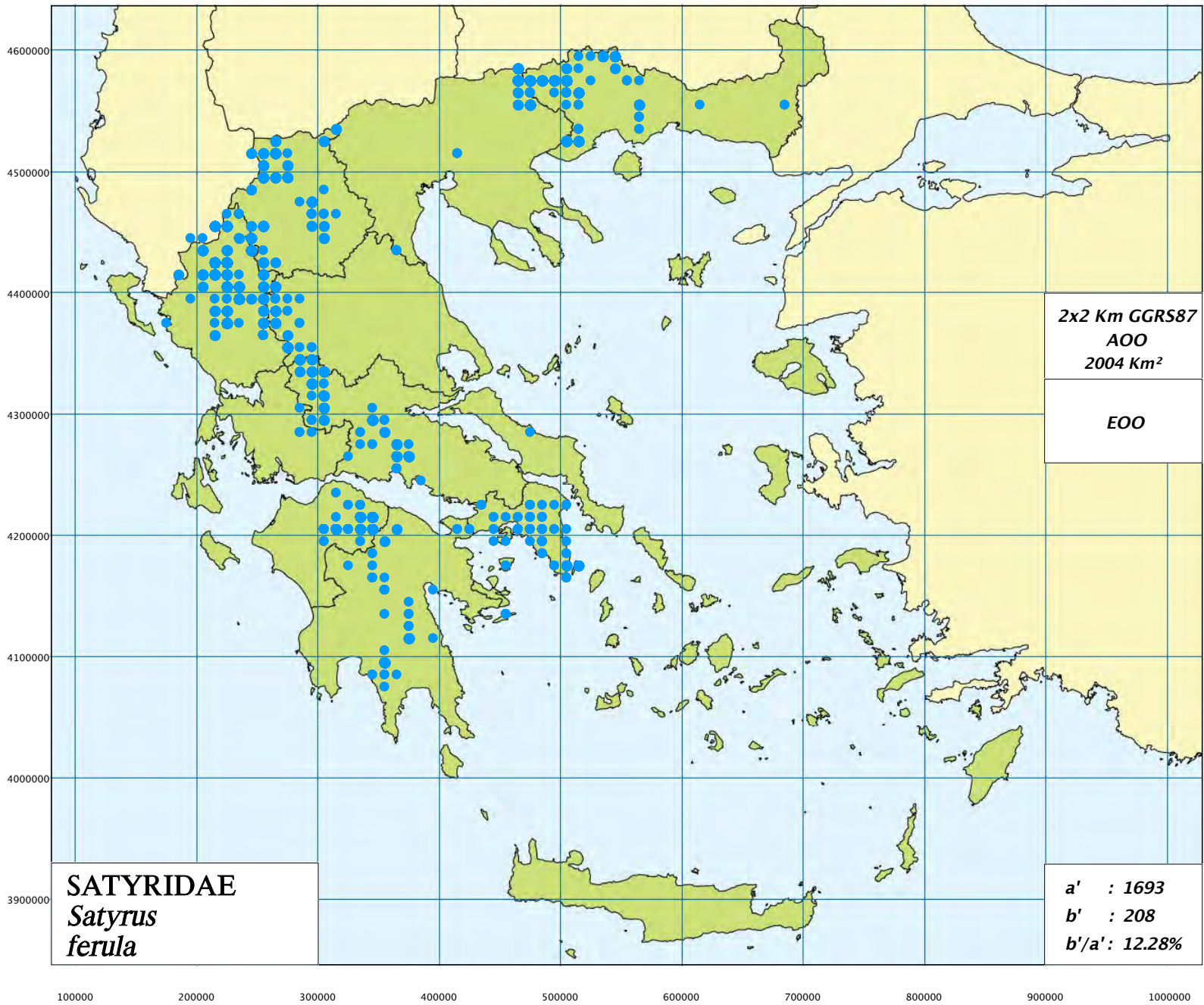
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b' : 10
b'/a' : 0.59%



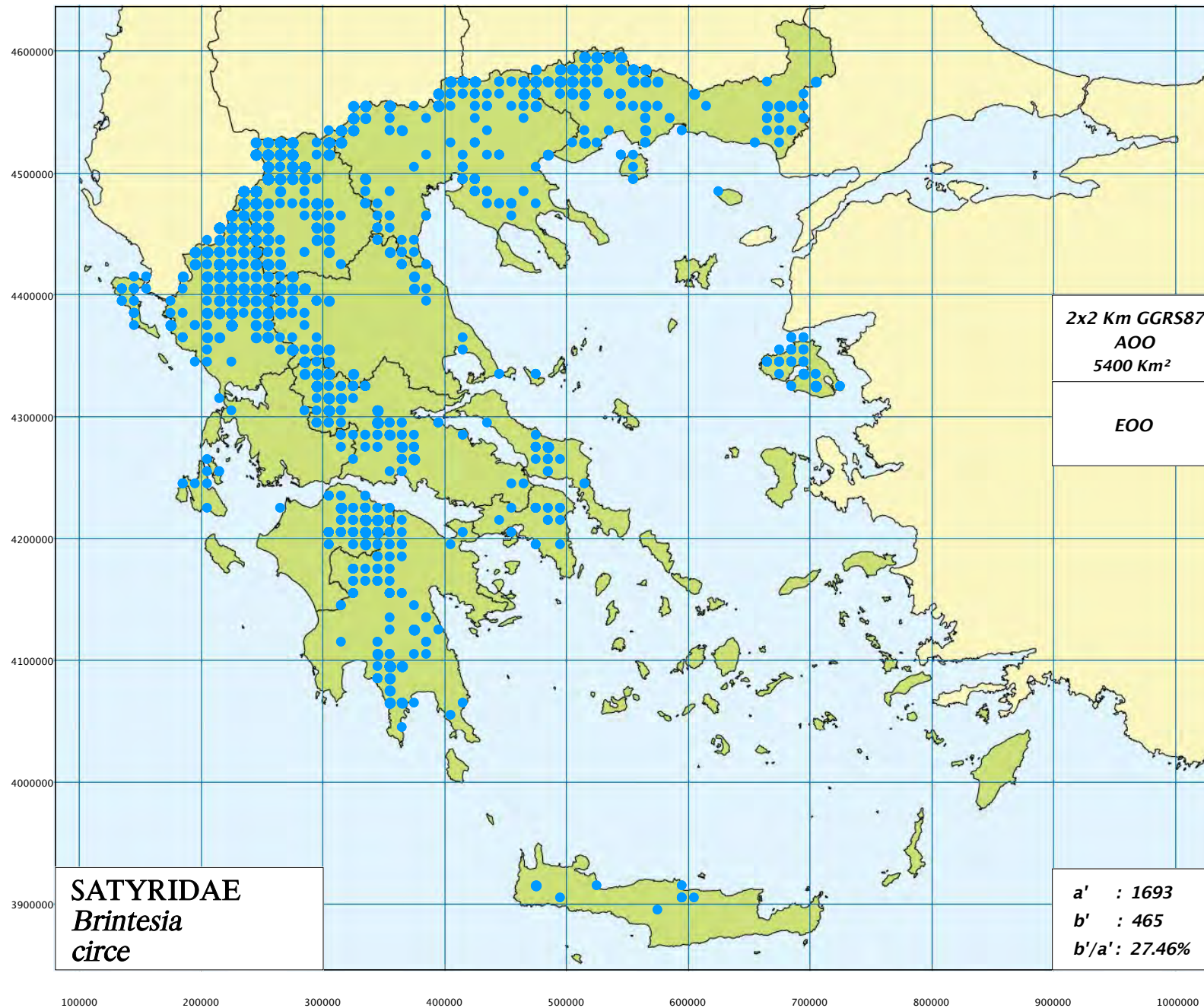


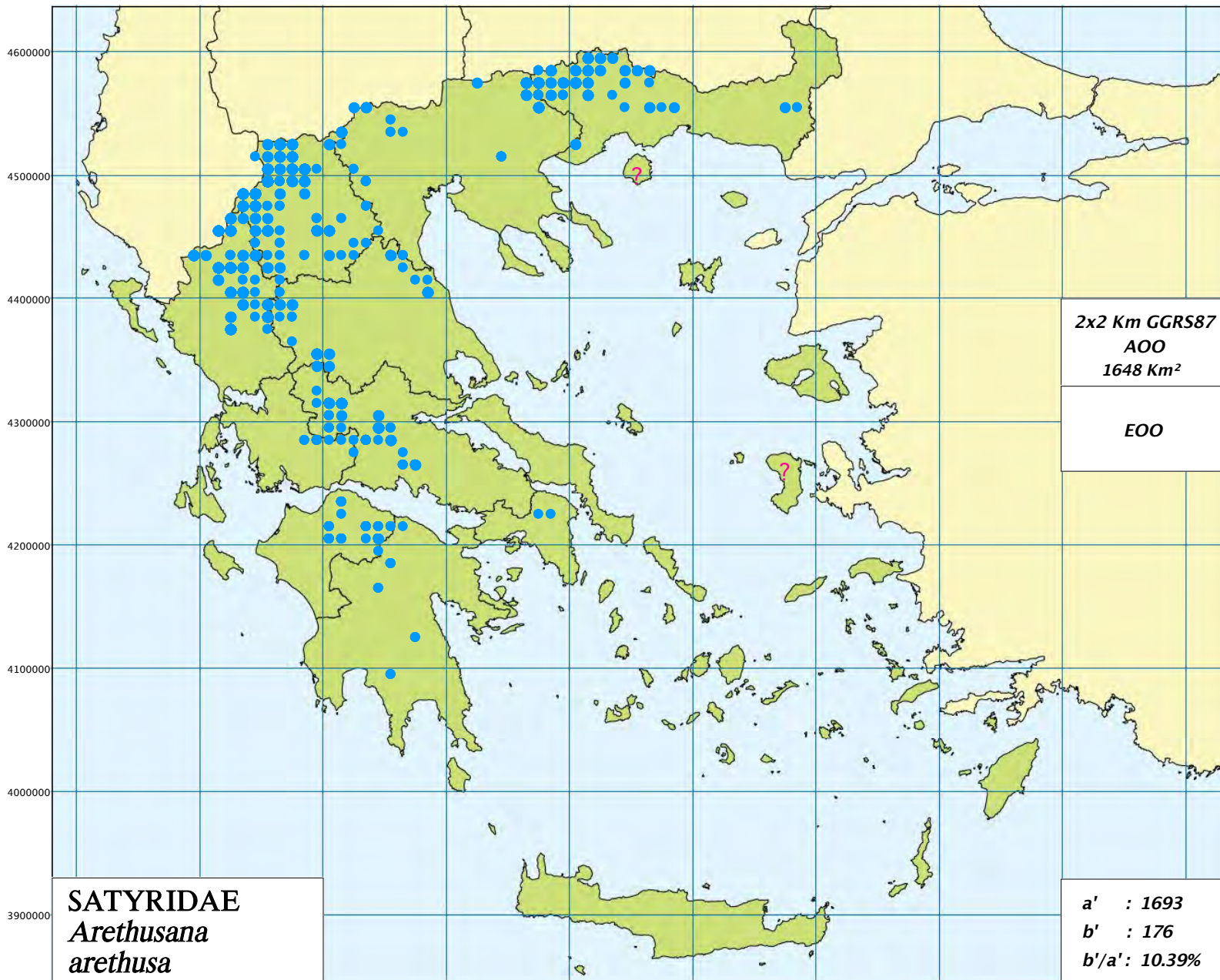


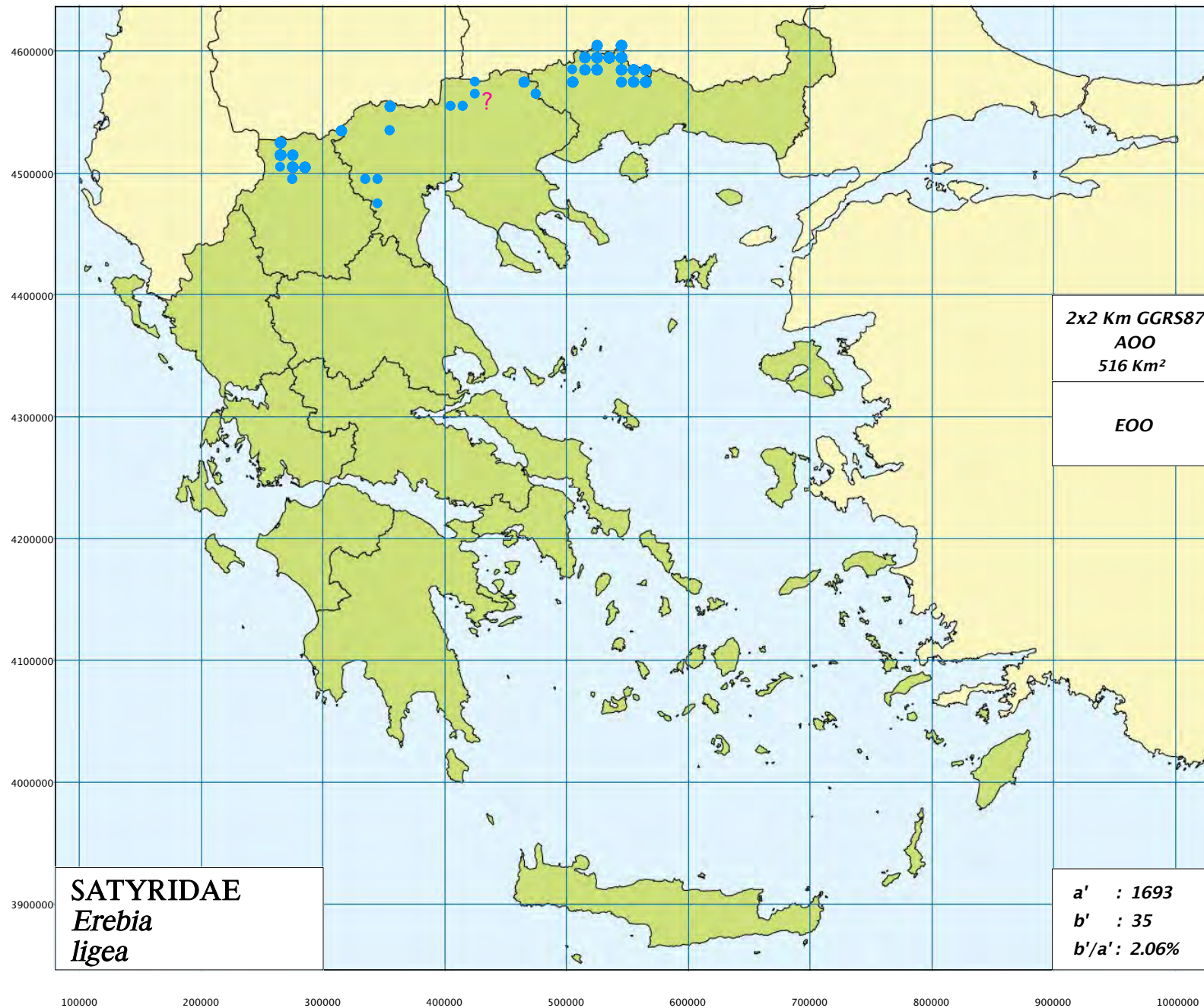


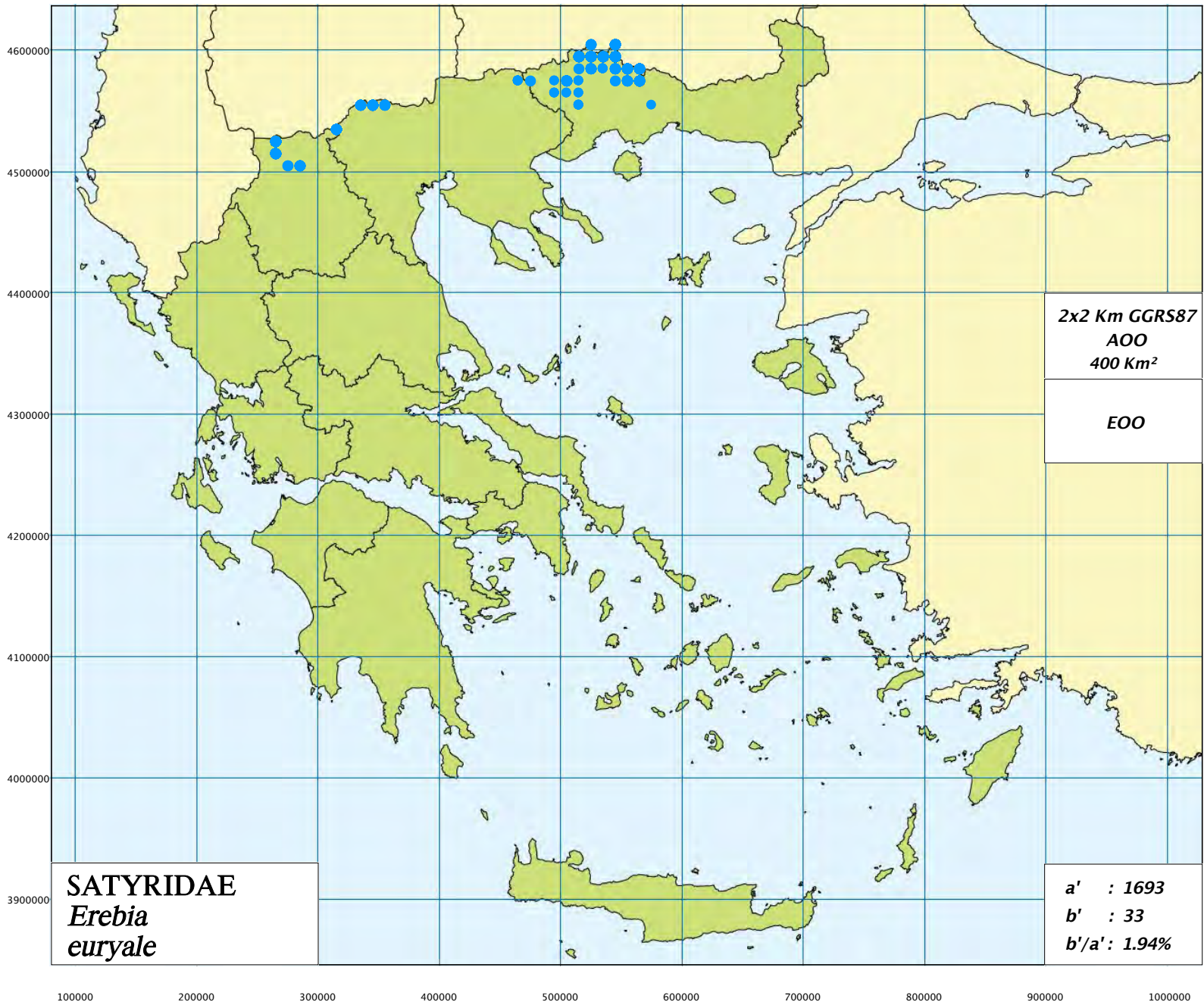




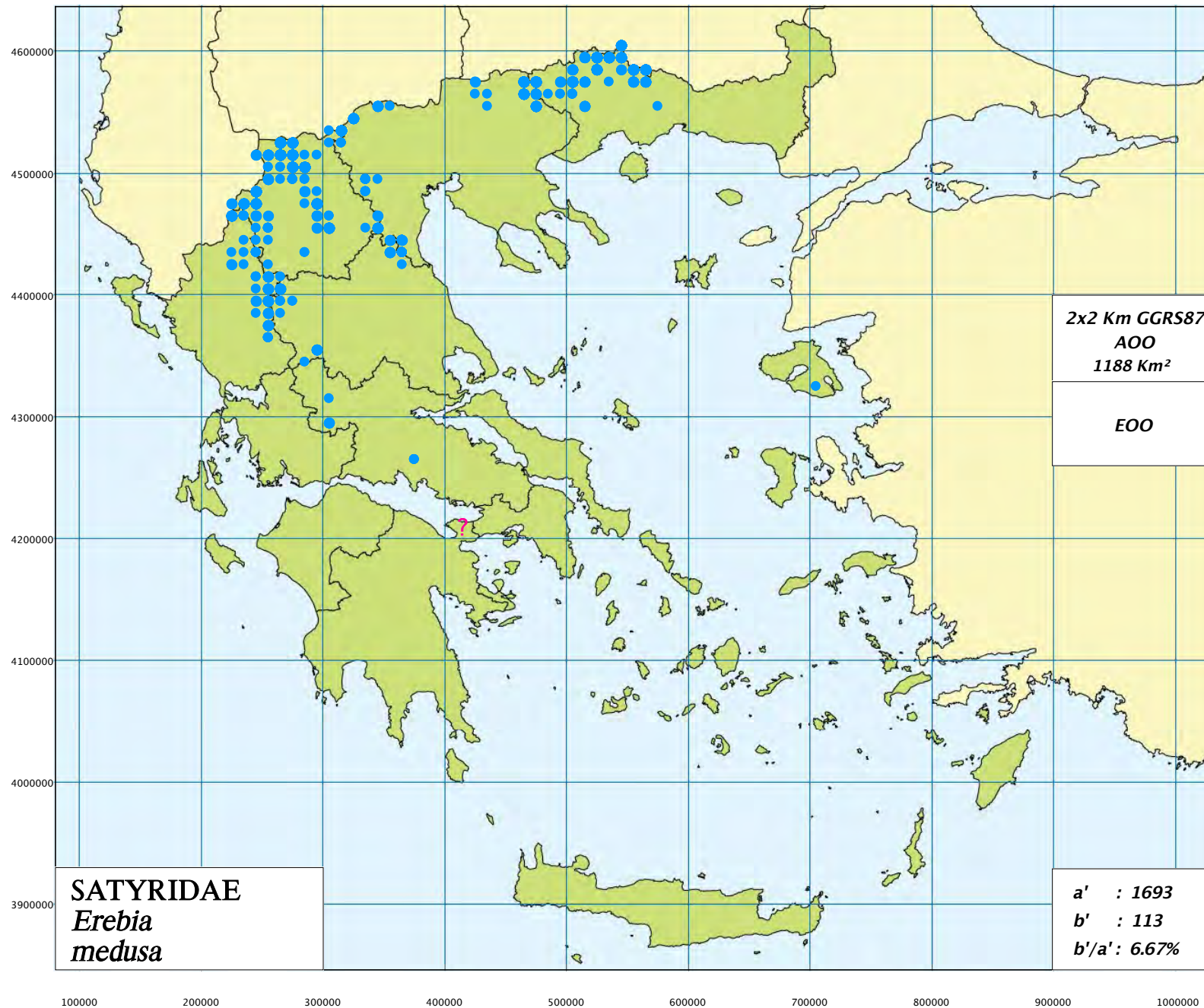




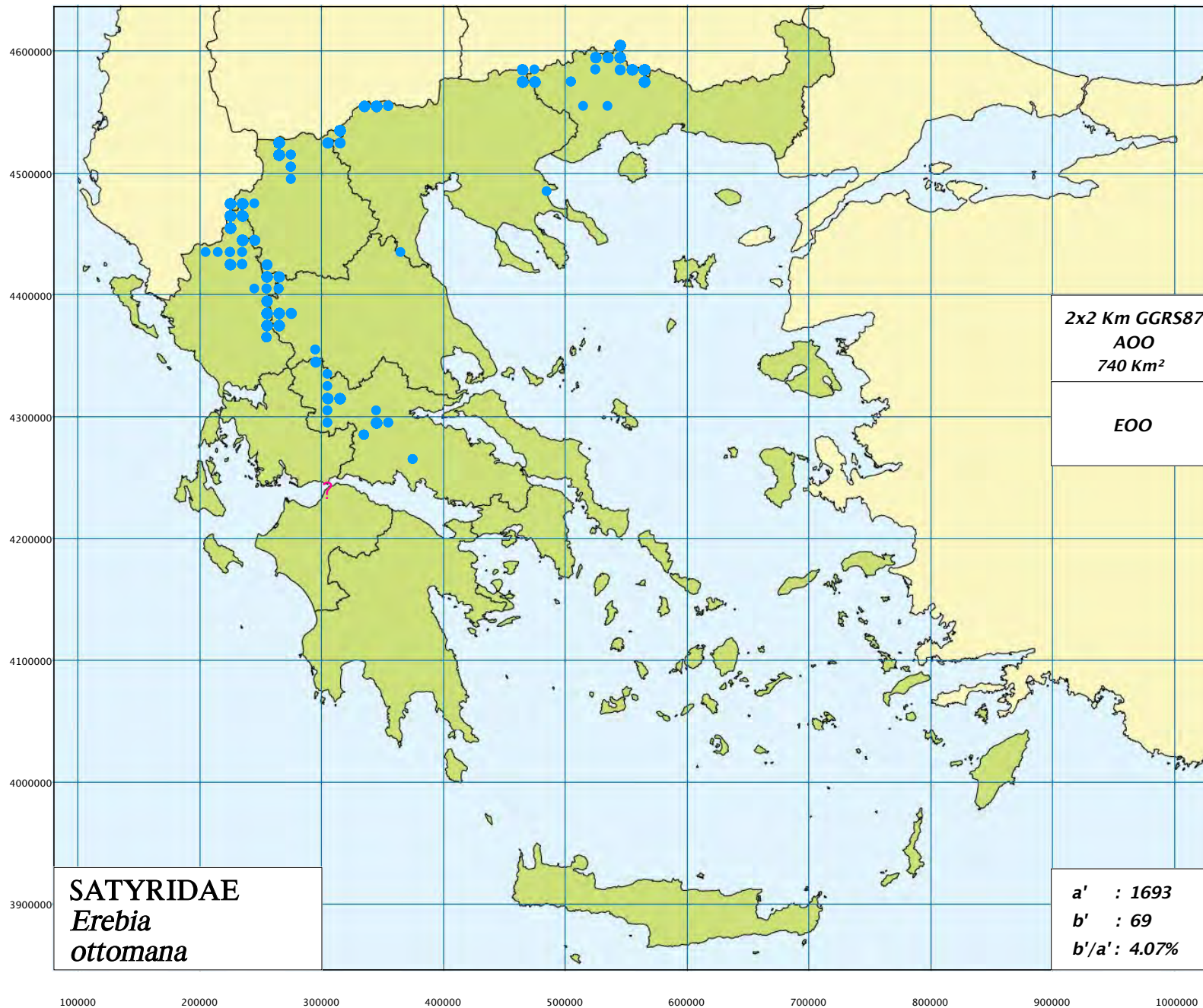








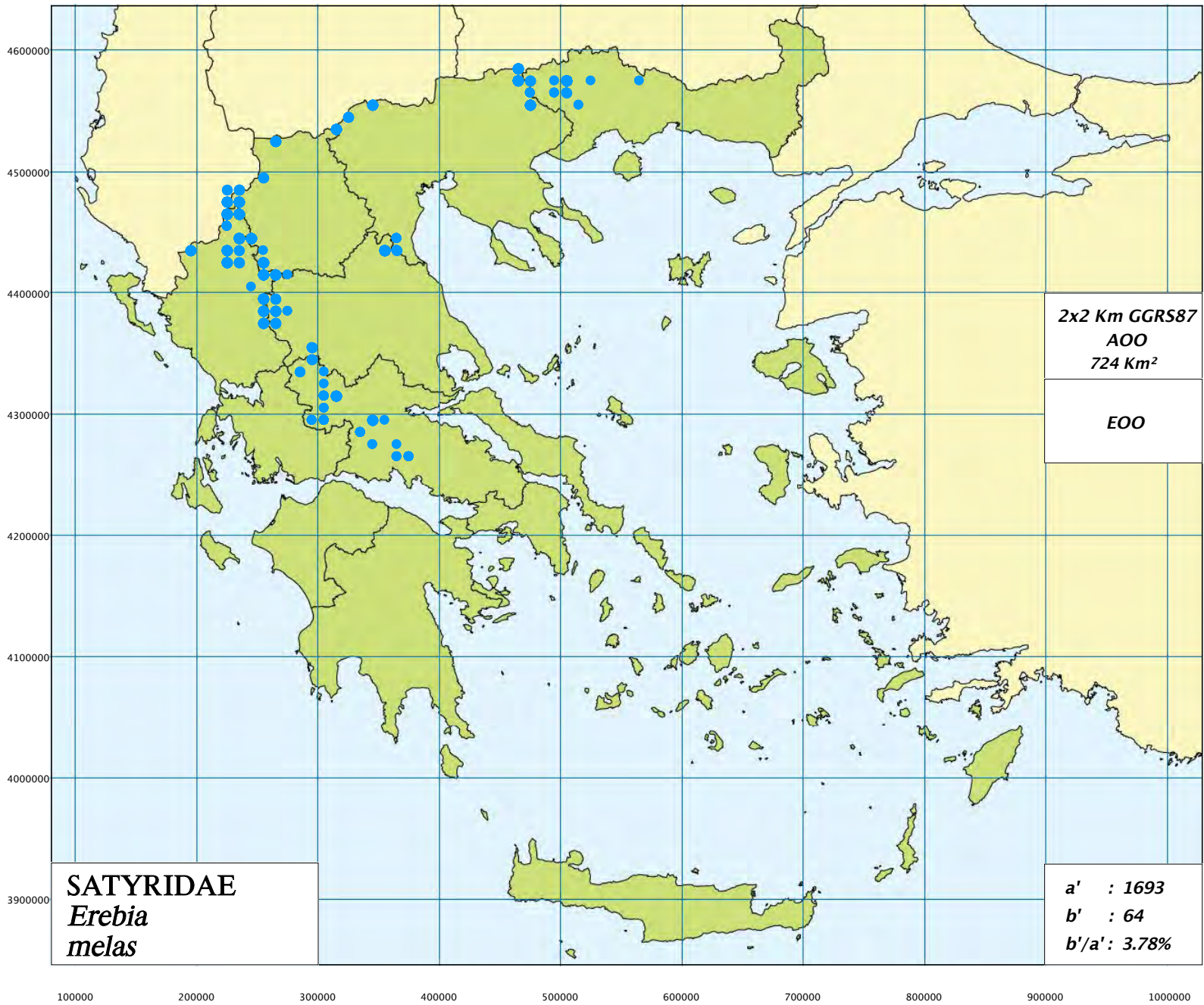






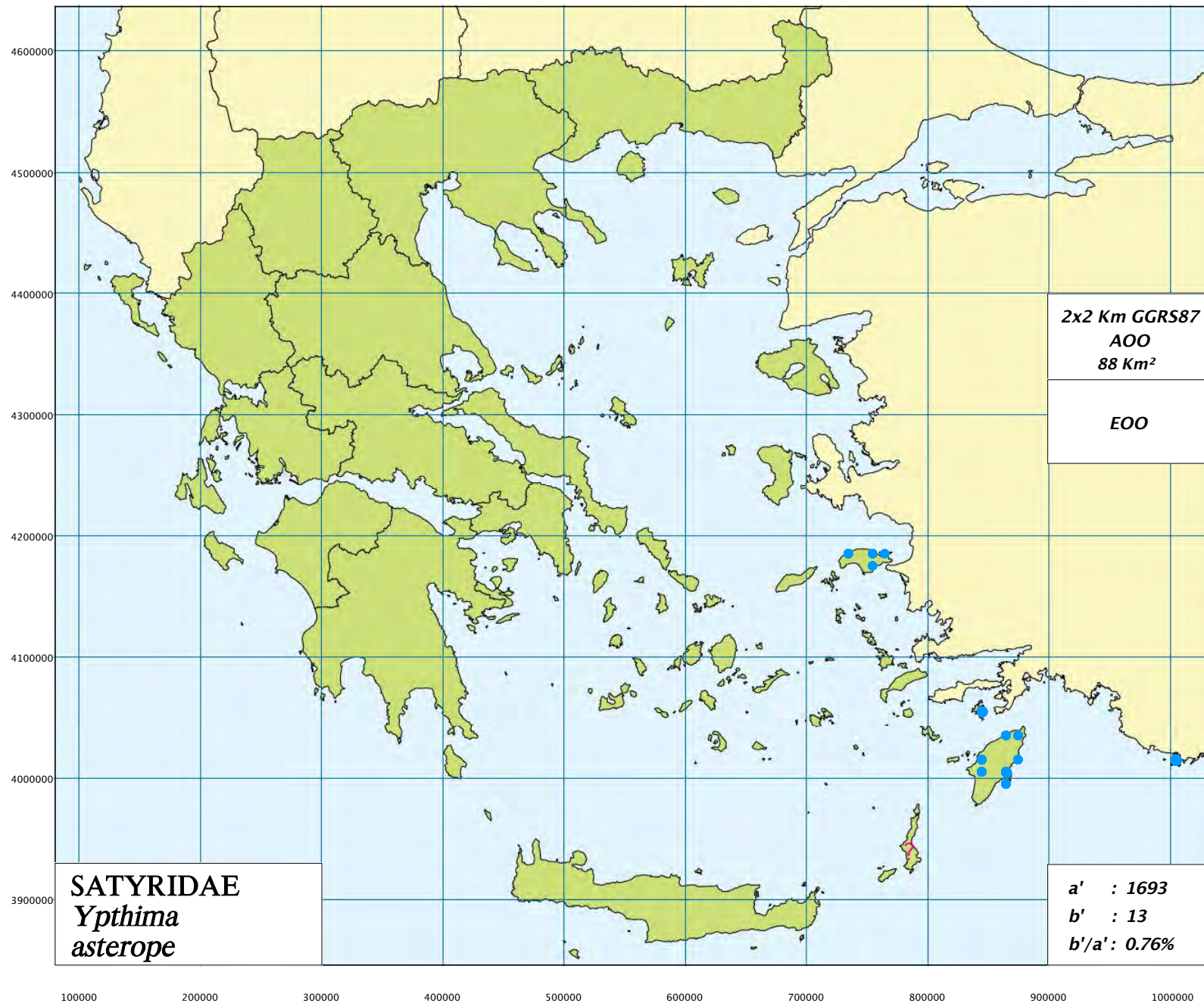


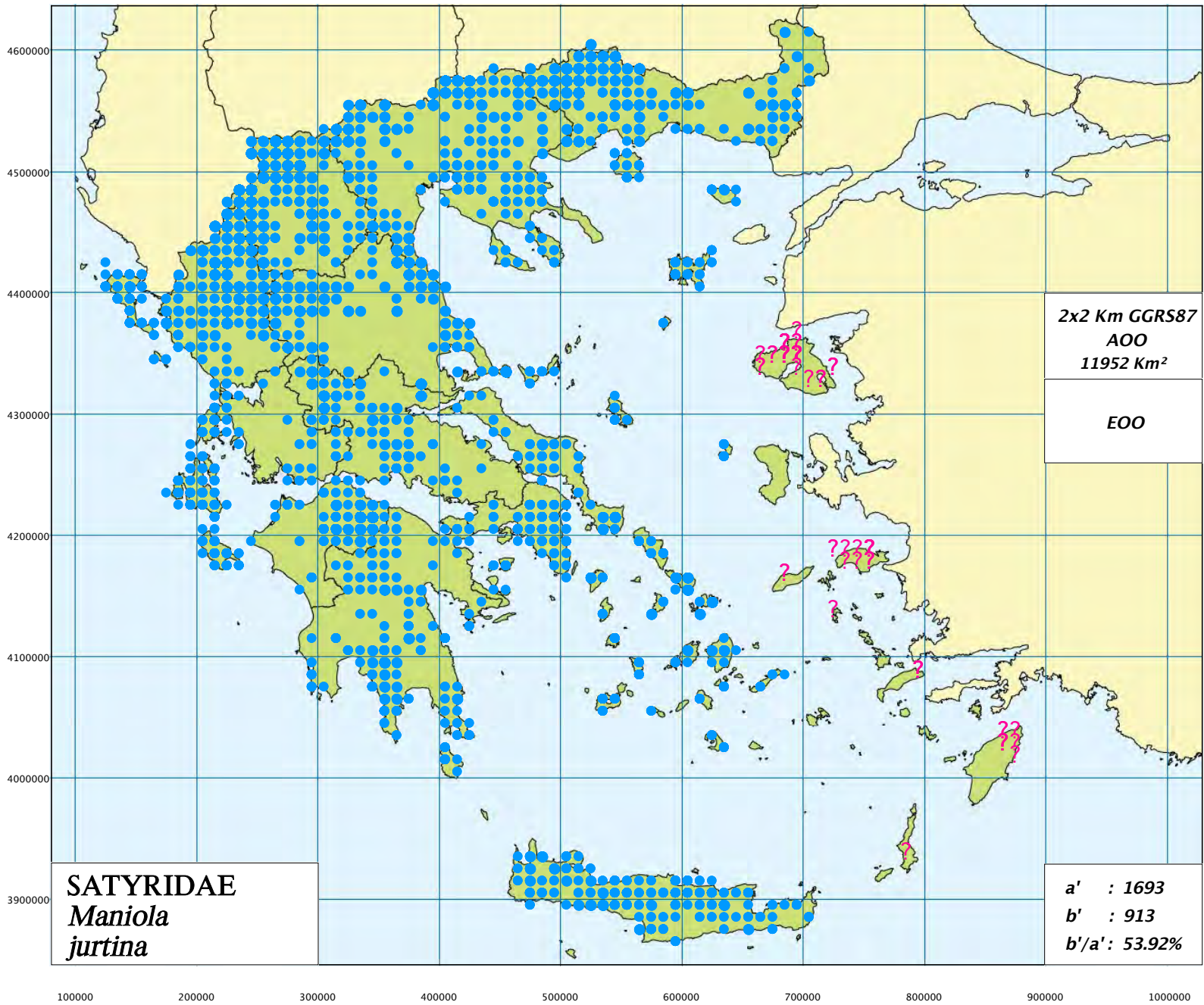




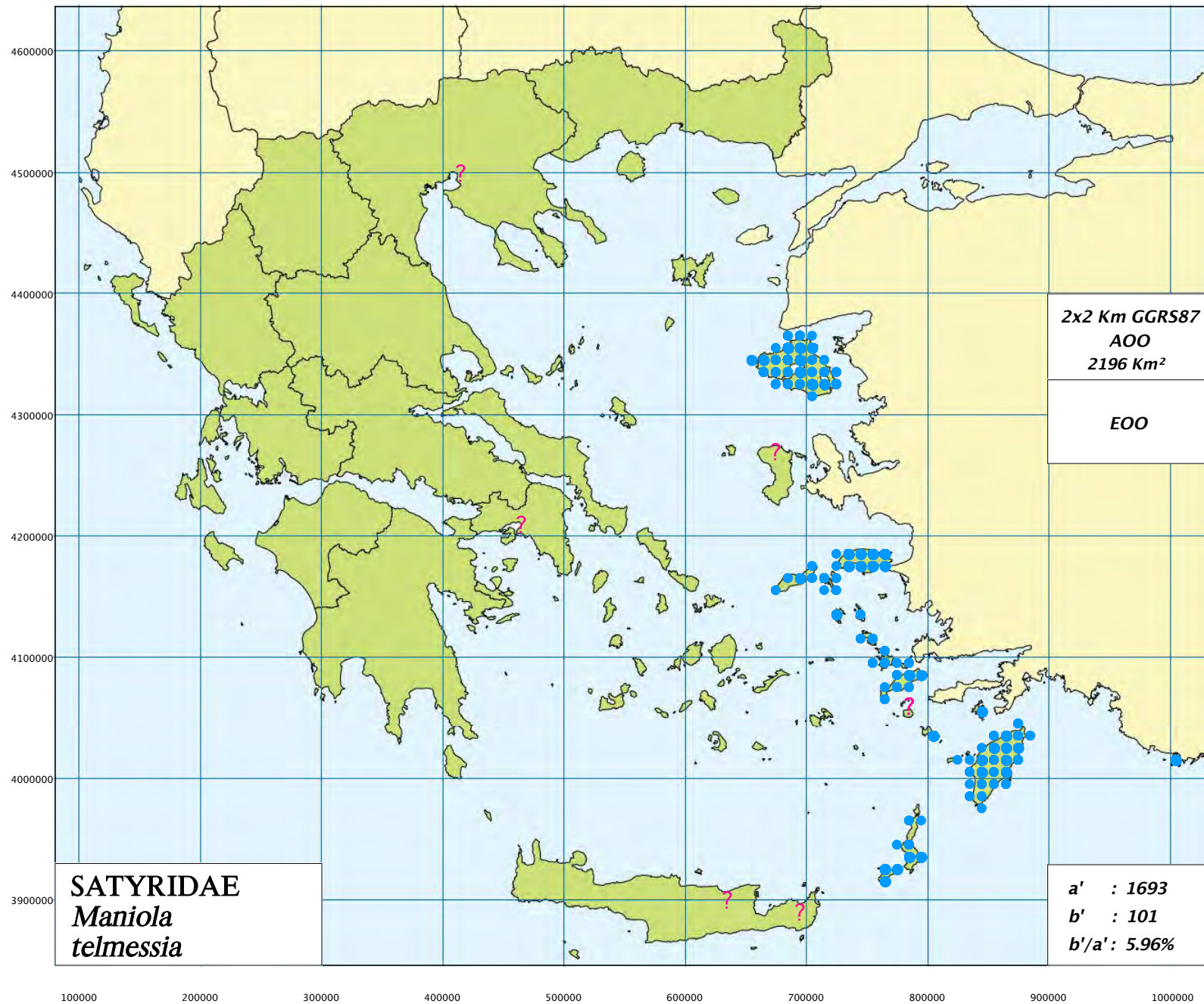
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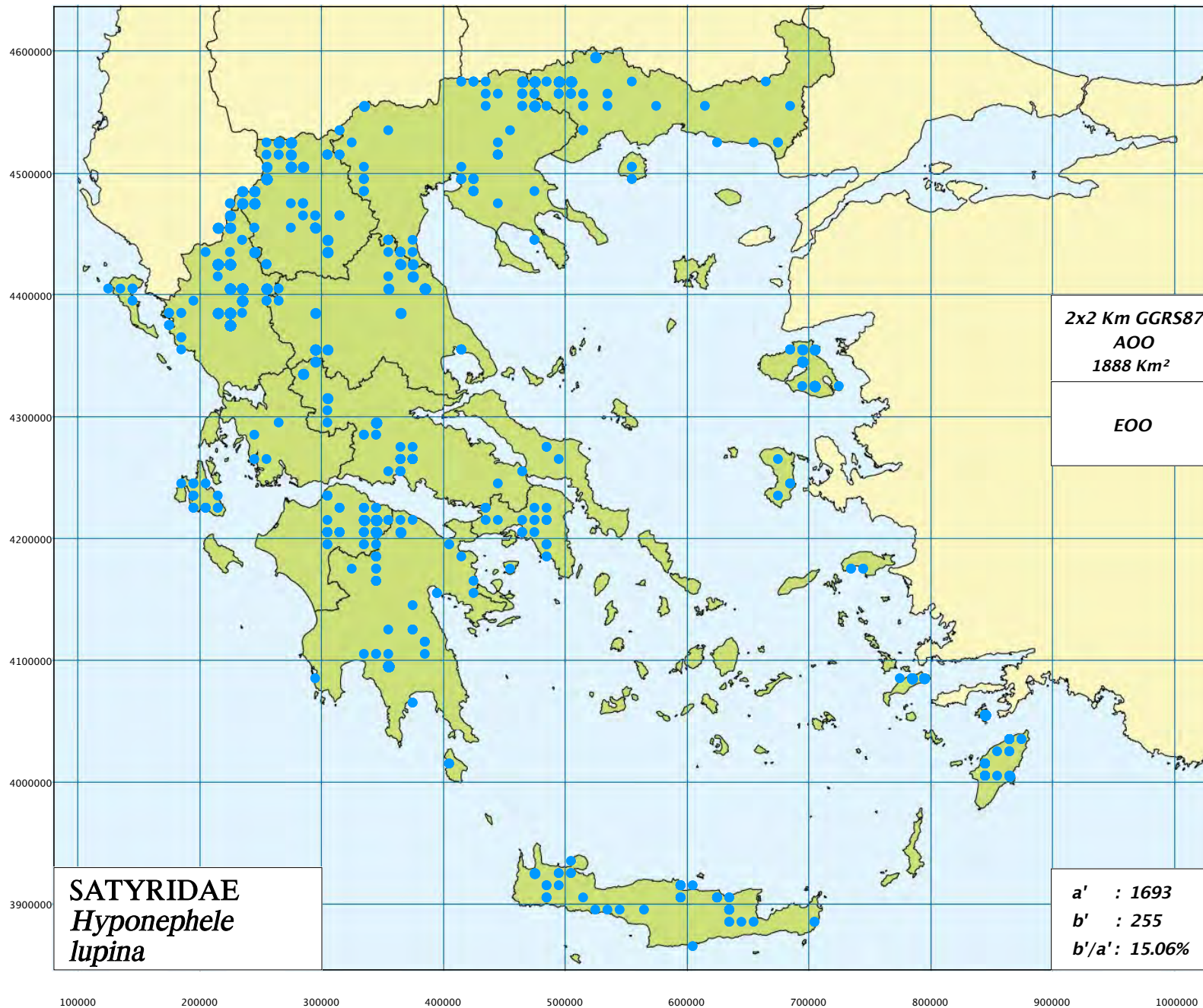


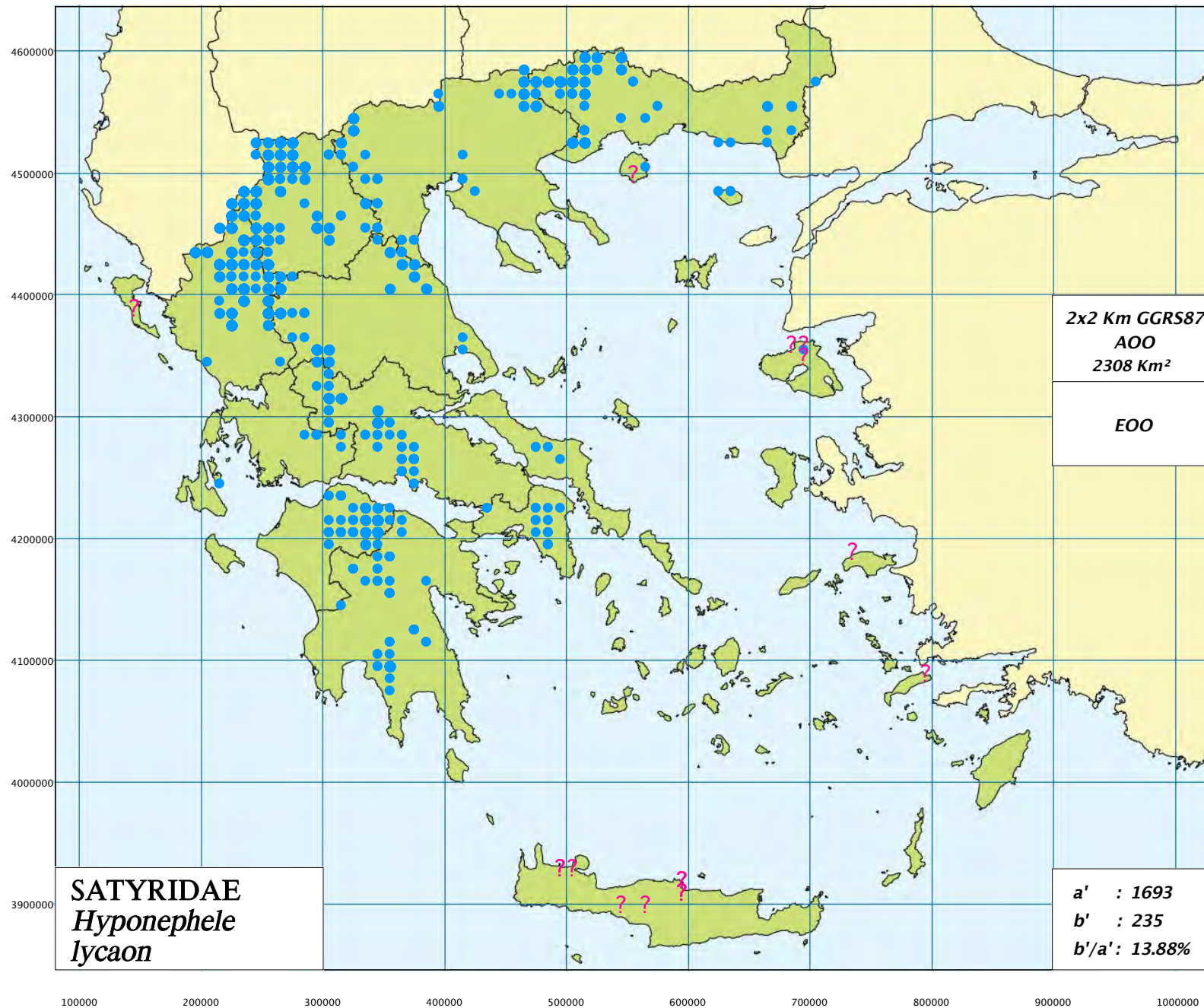


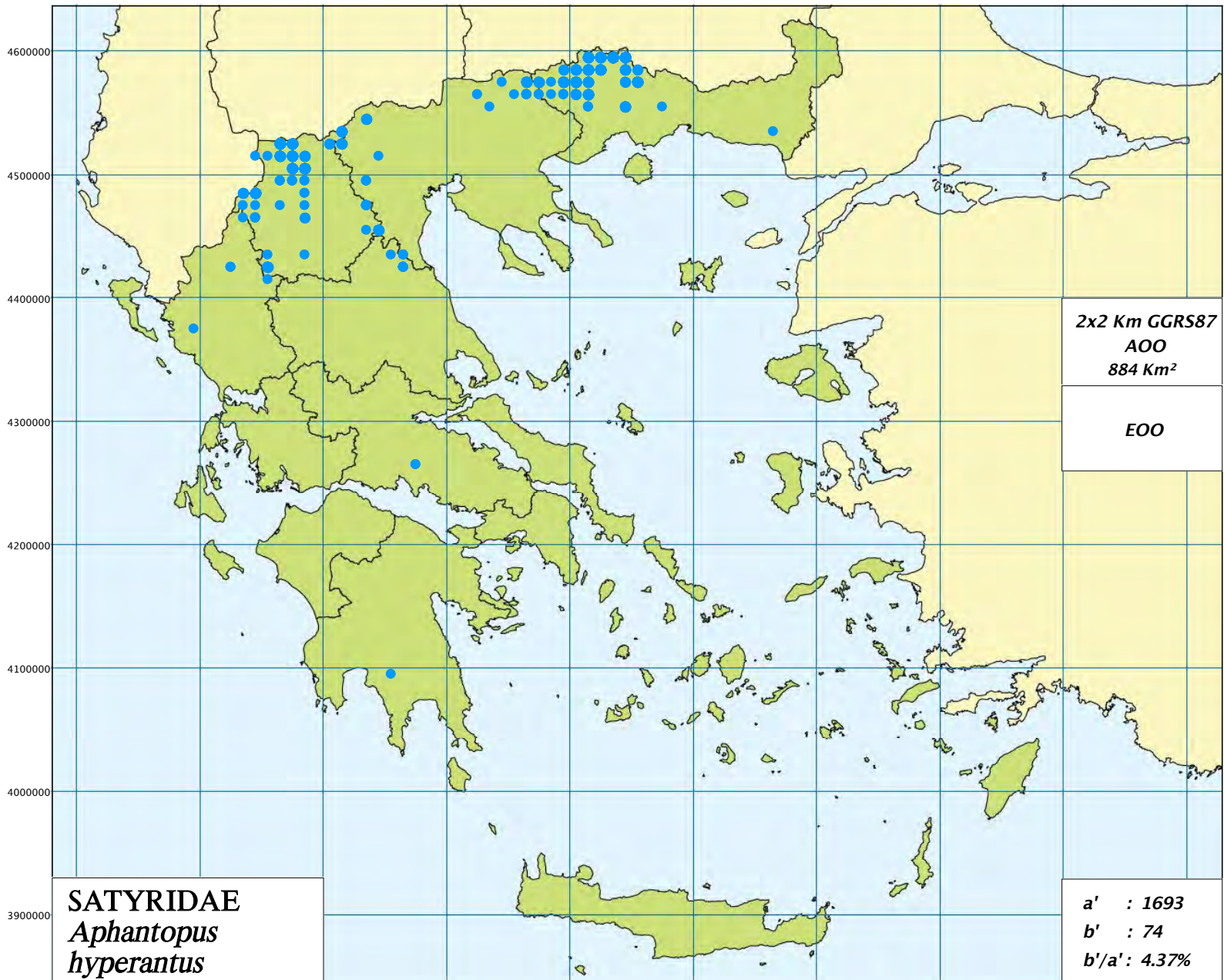


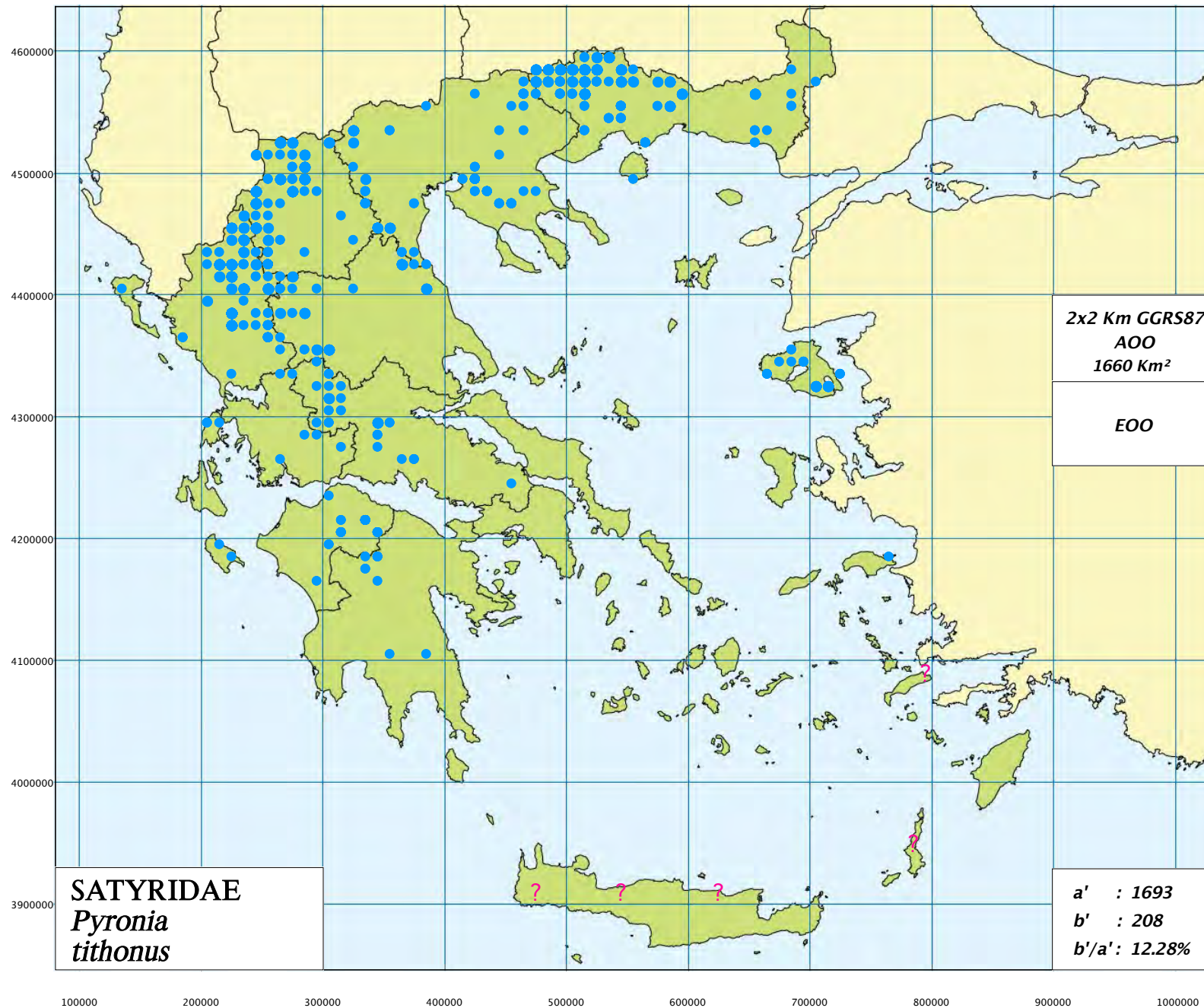




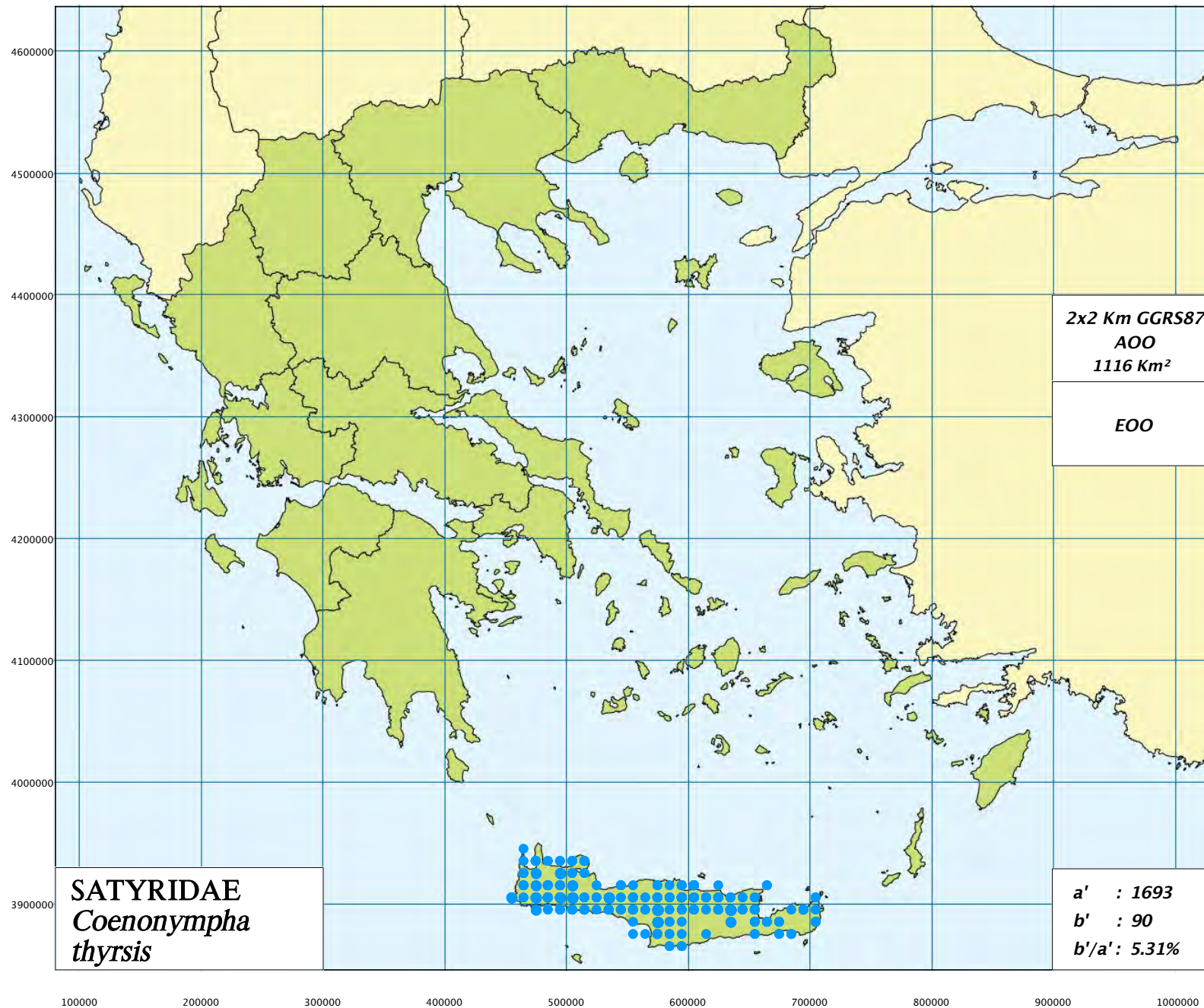


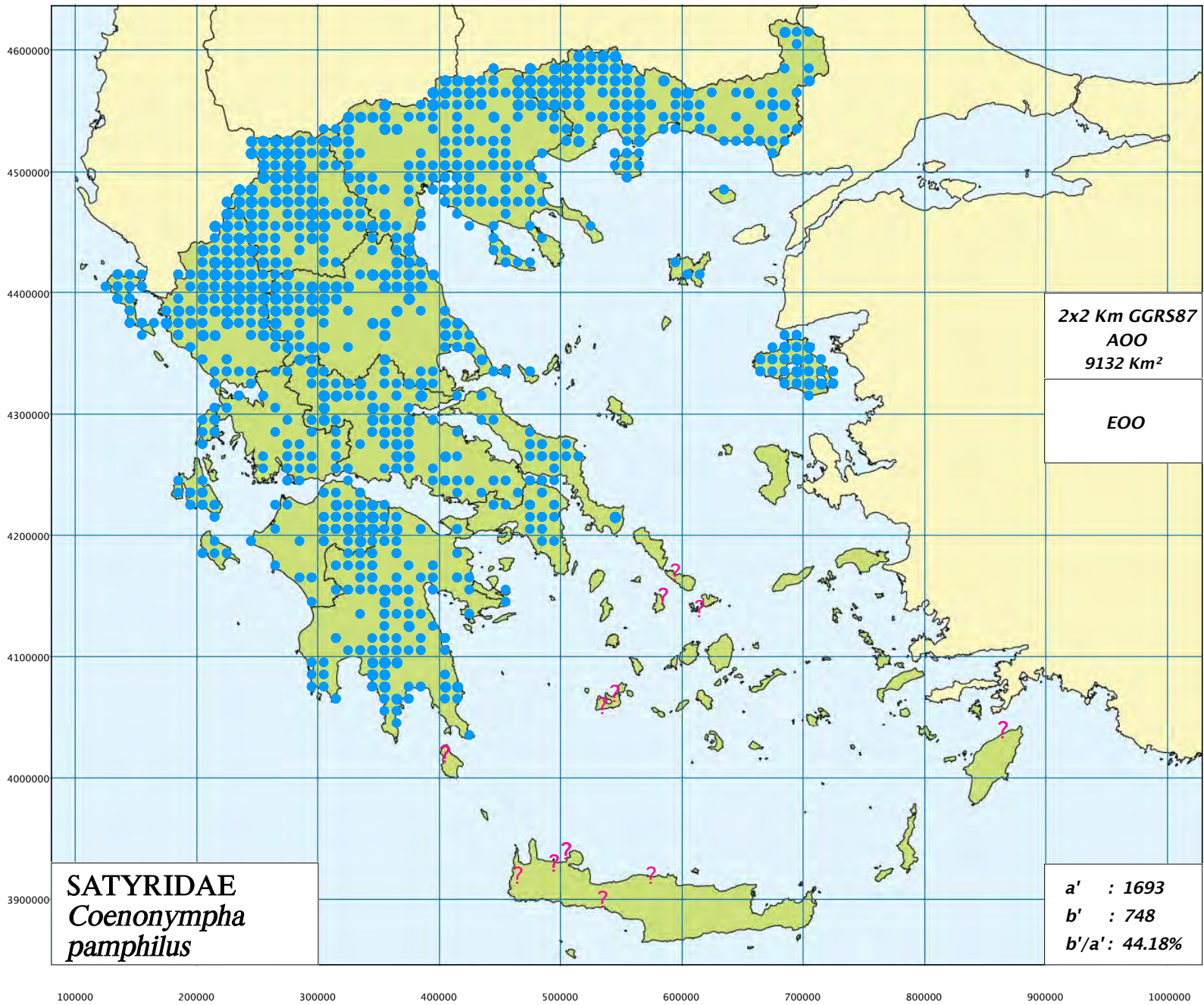


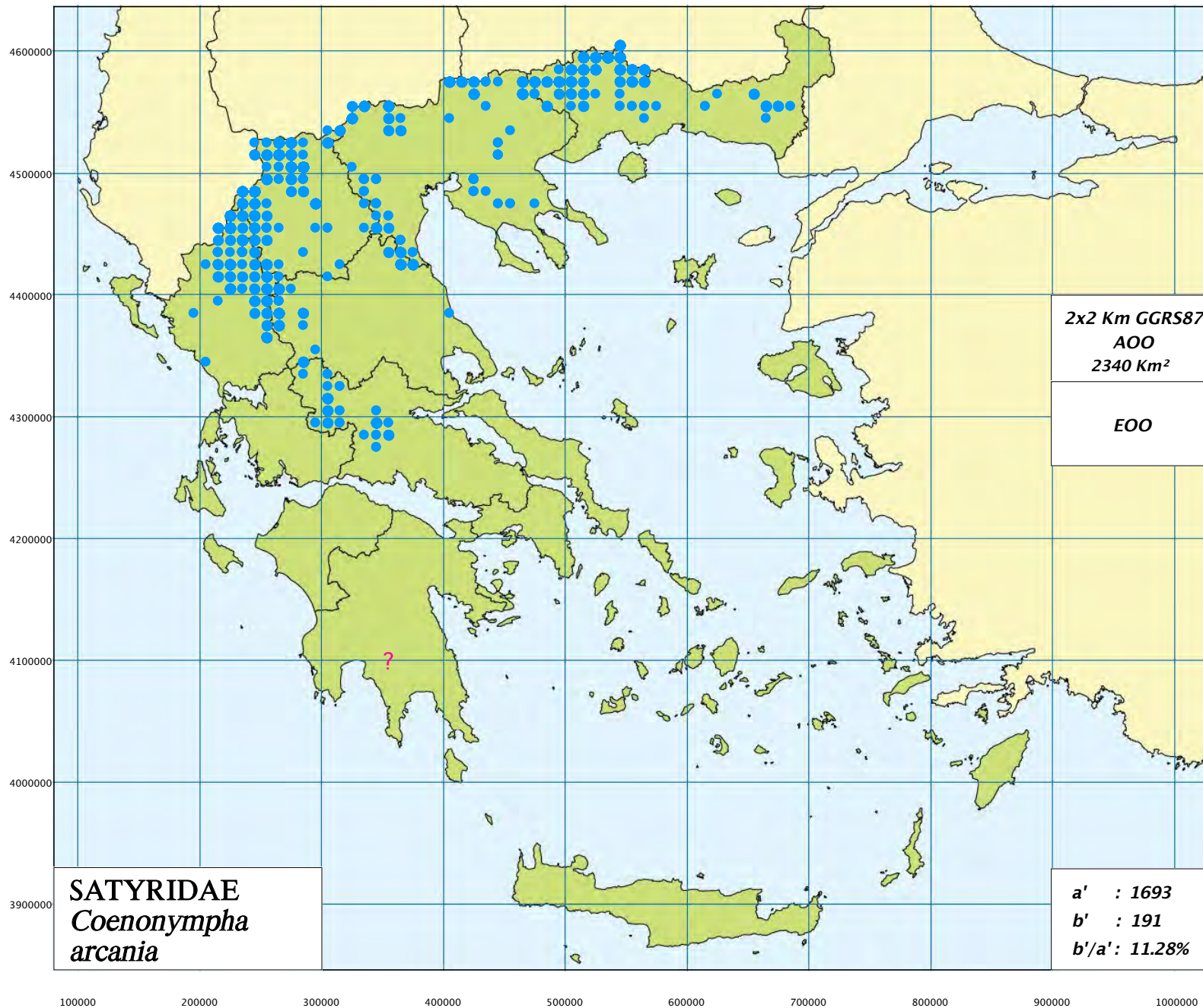




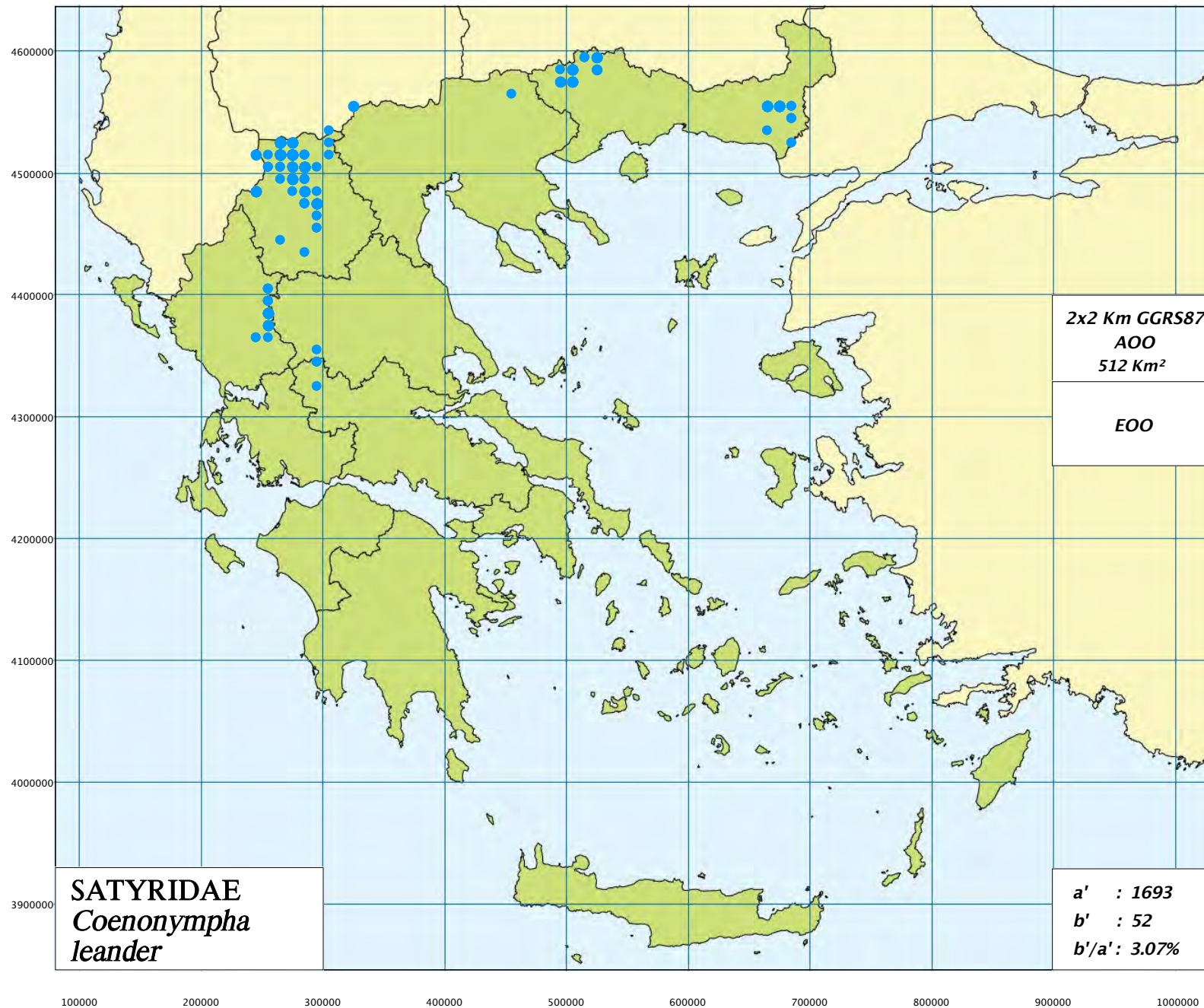




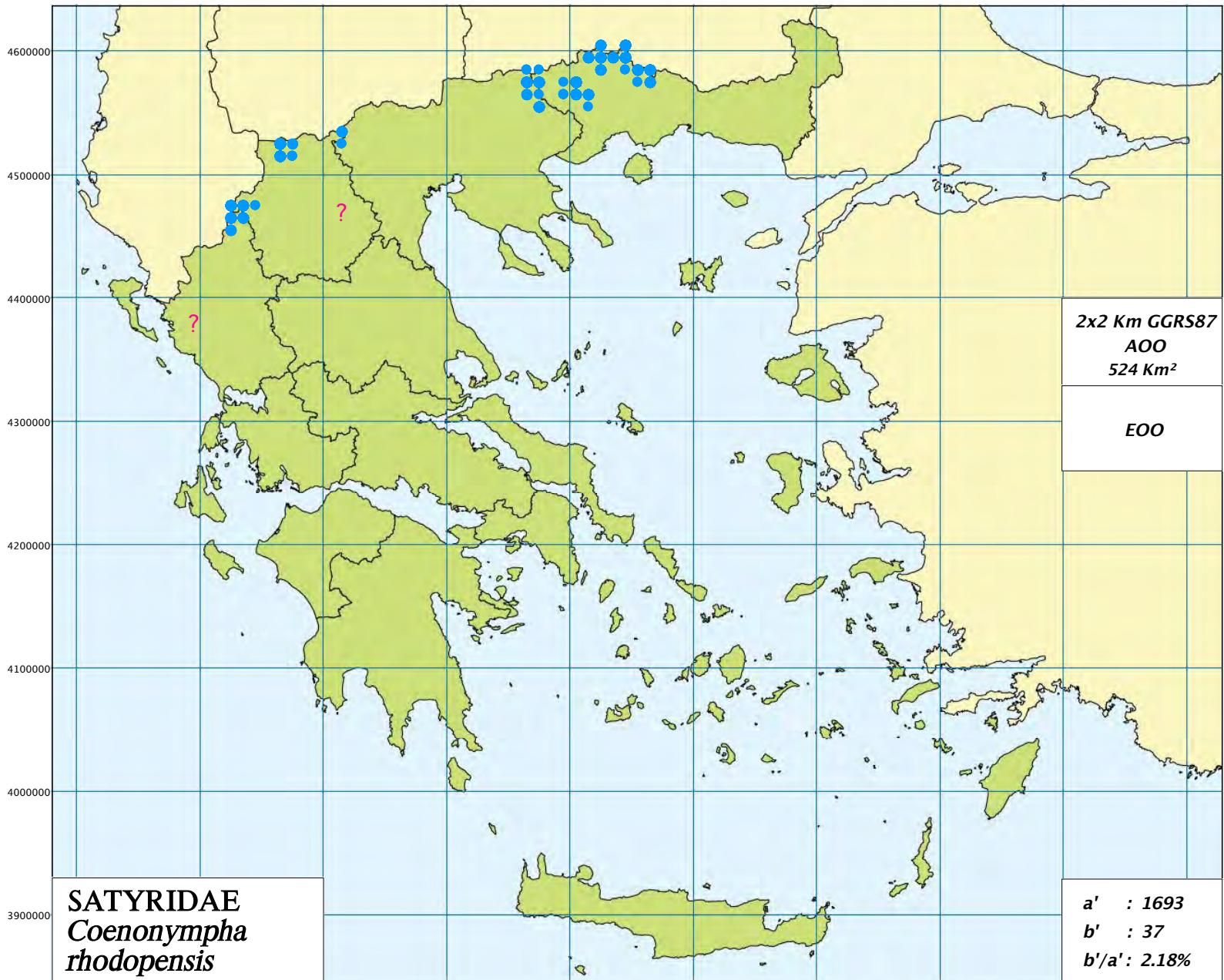


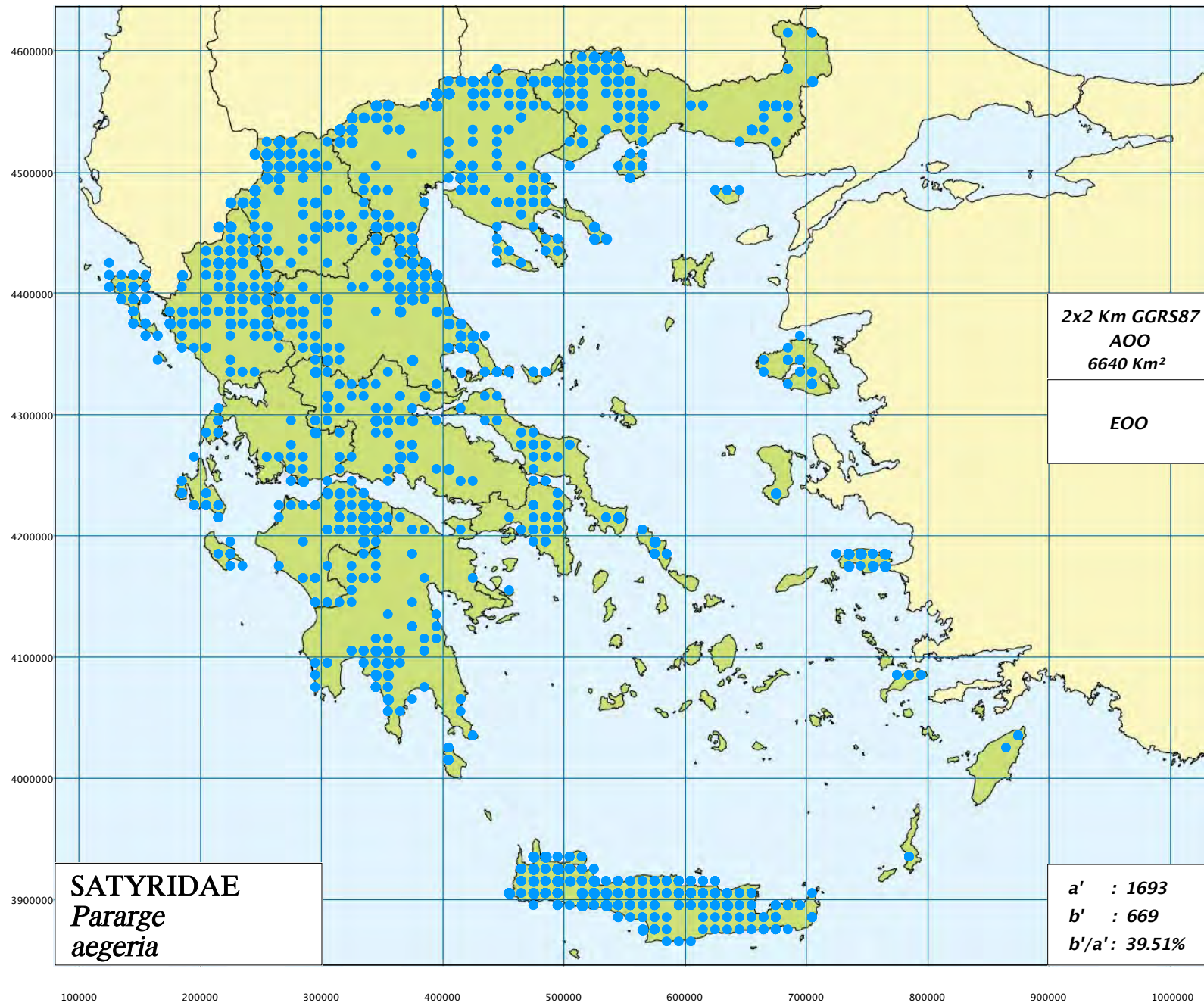


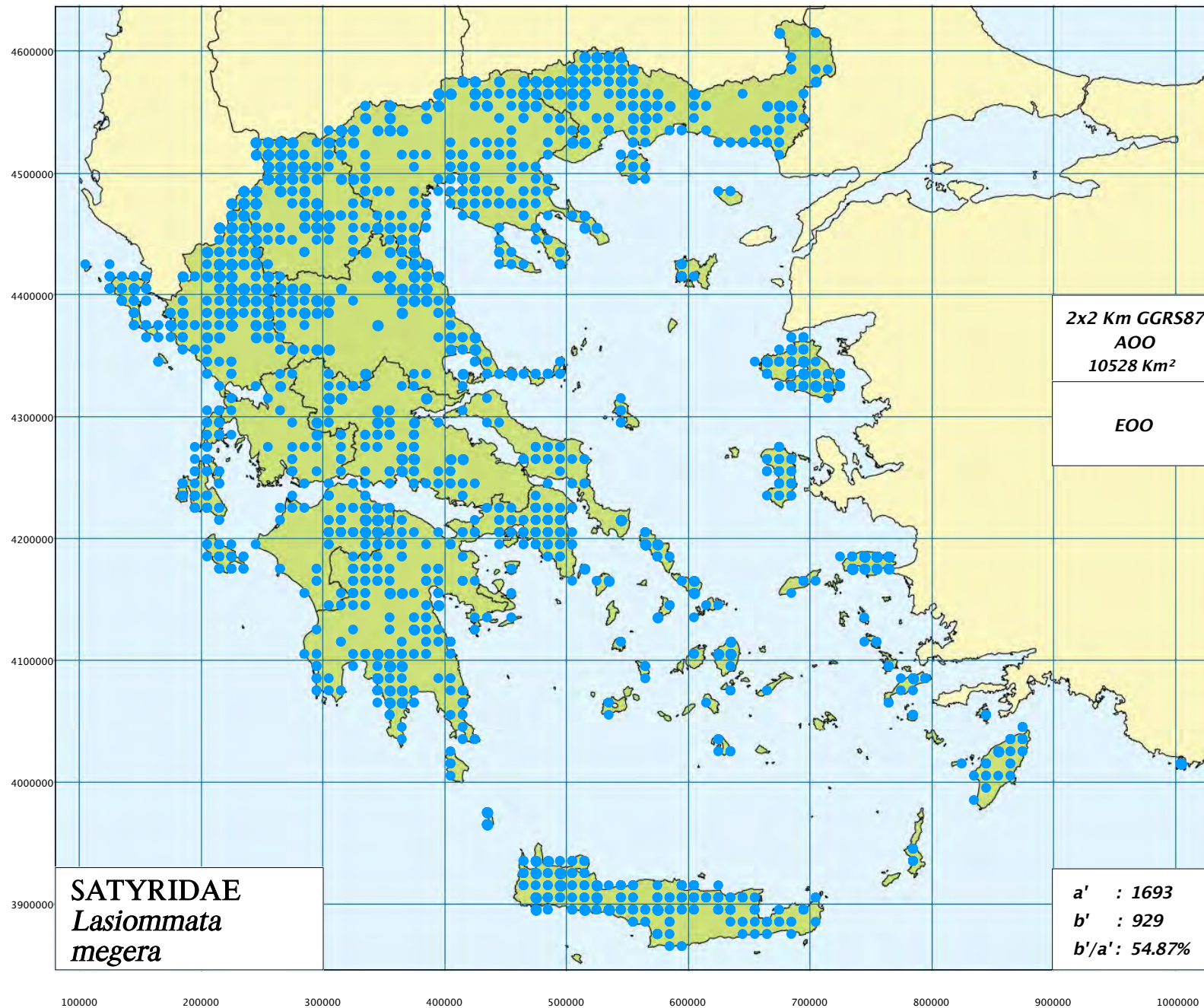


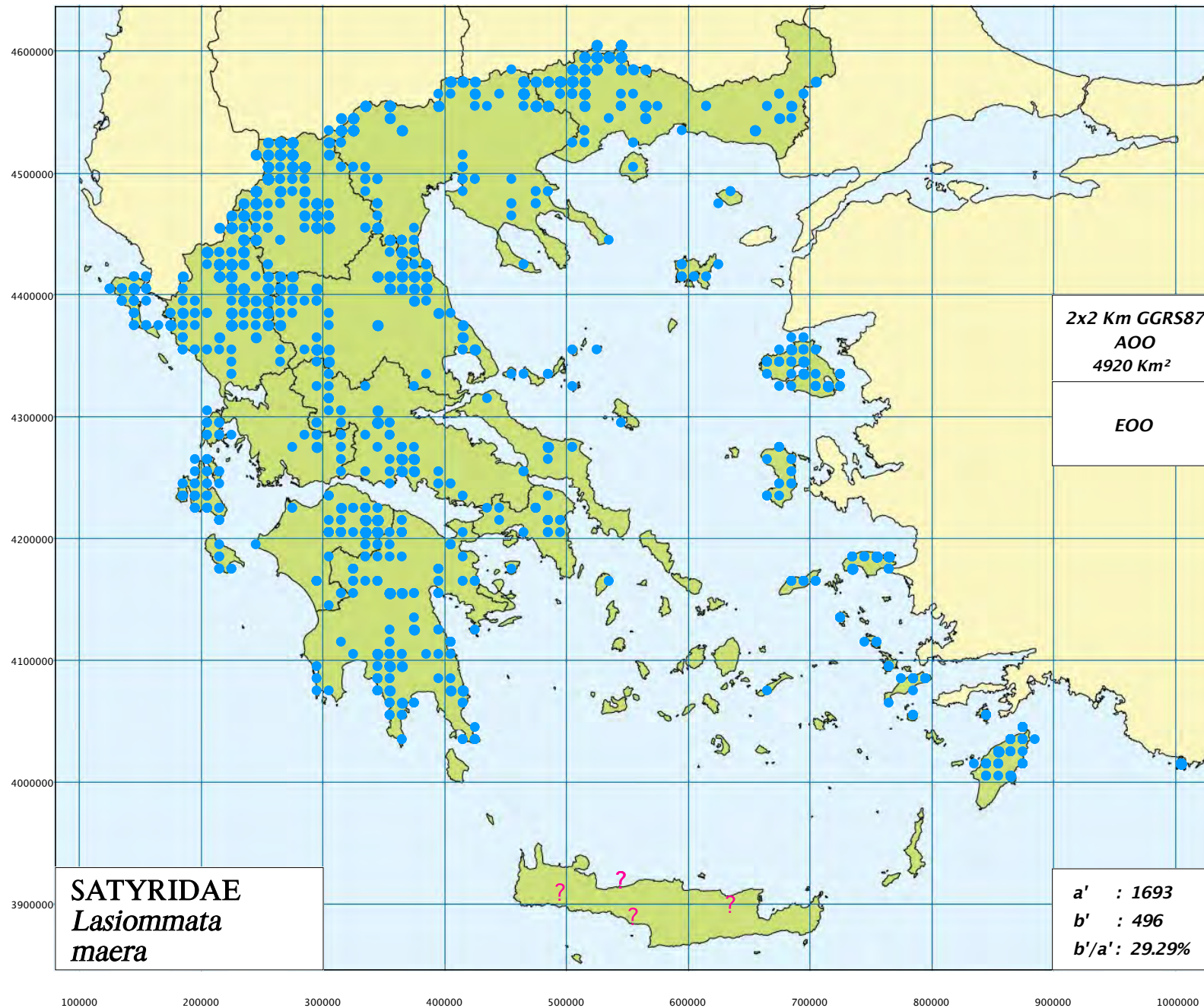


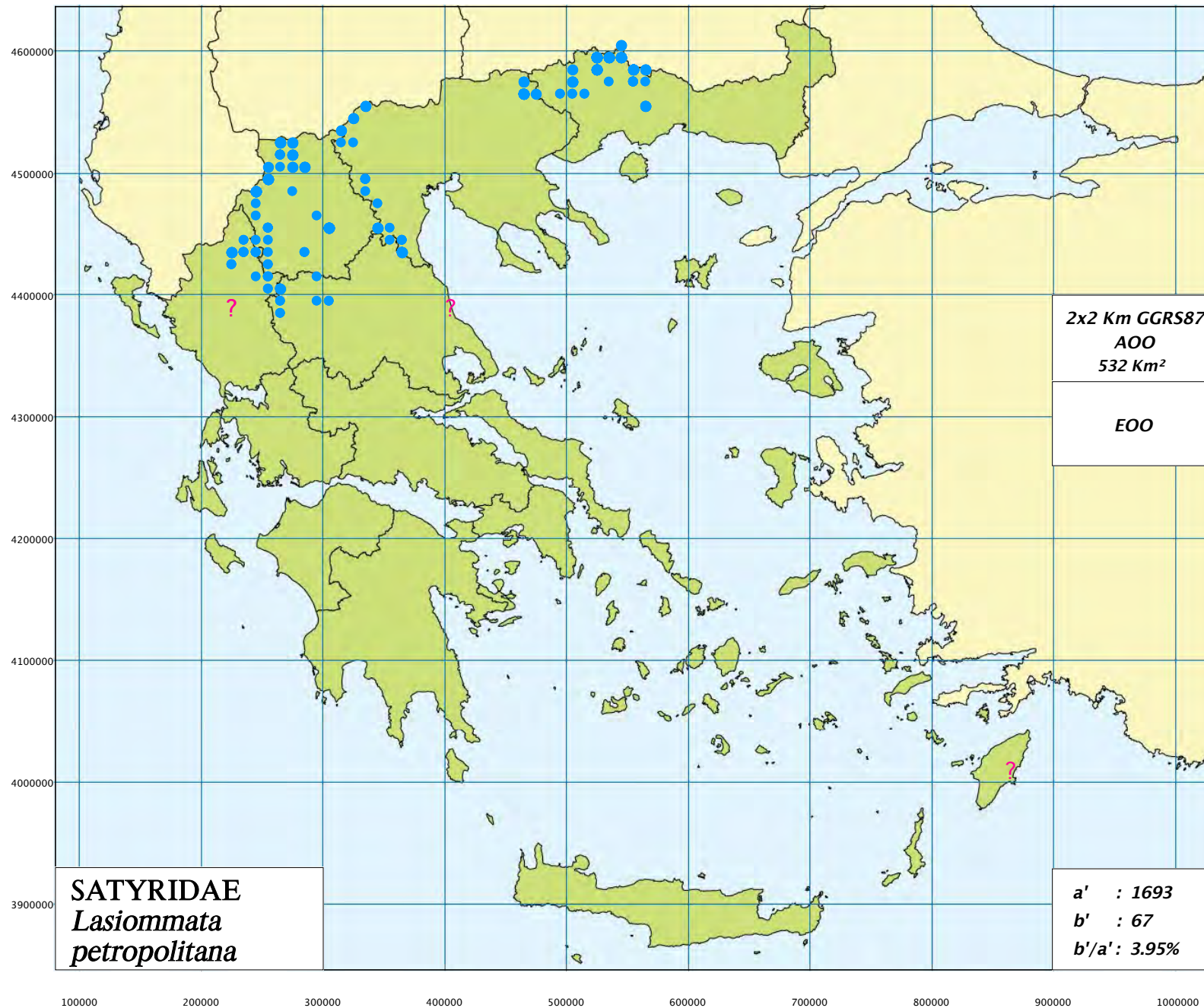


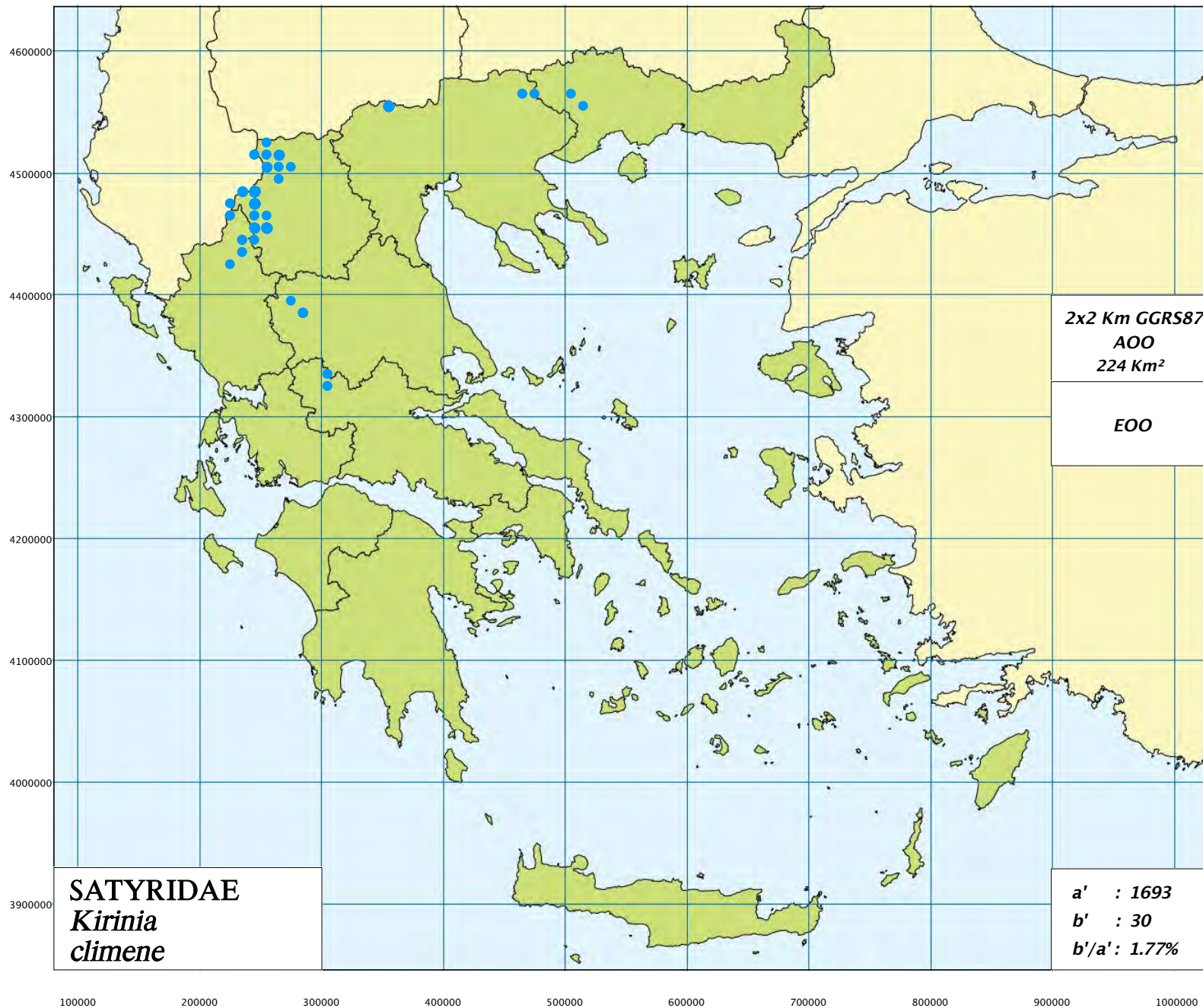


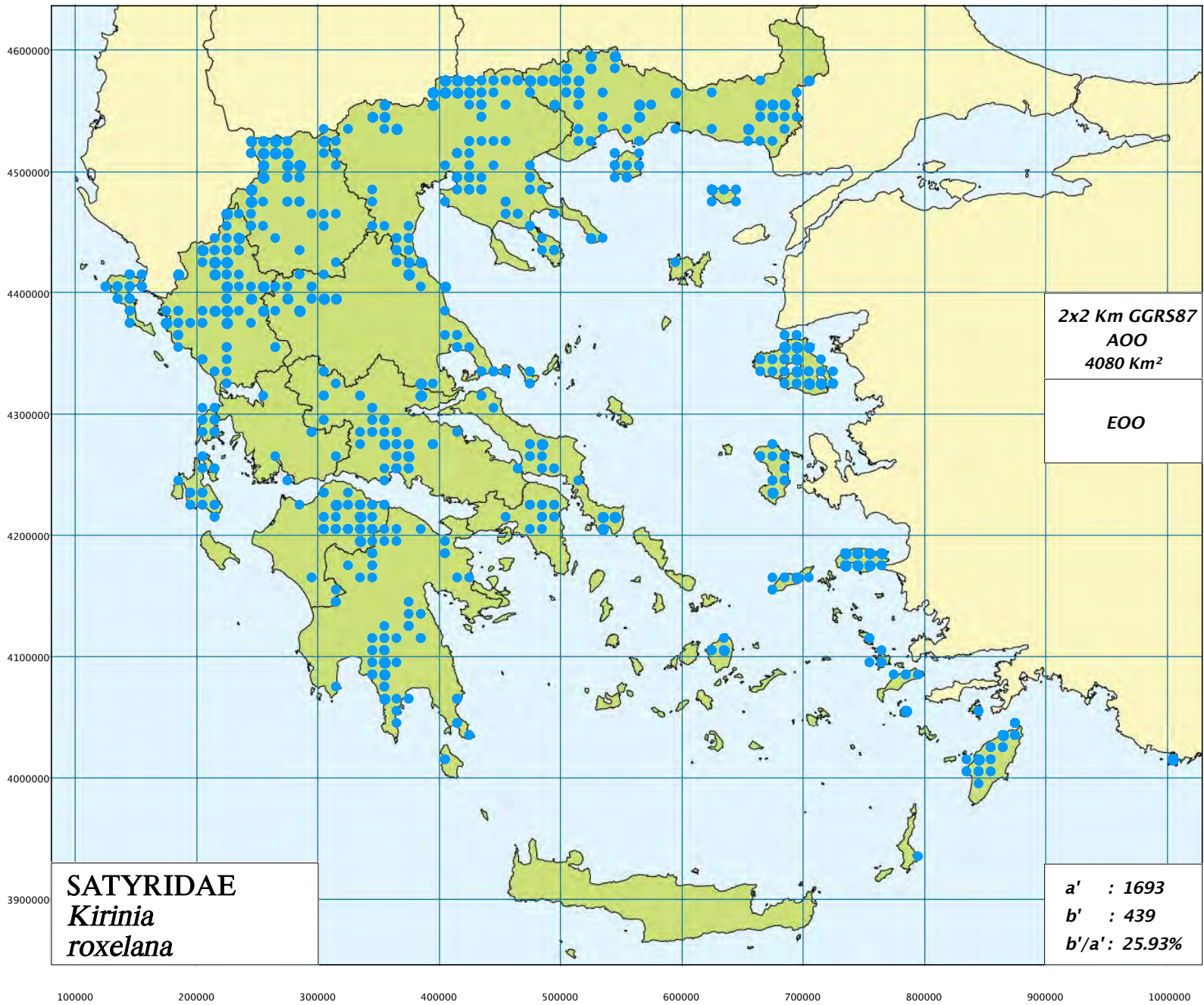


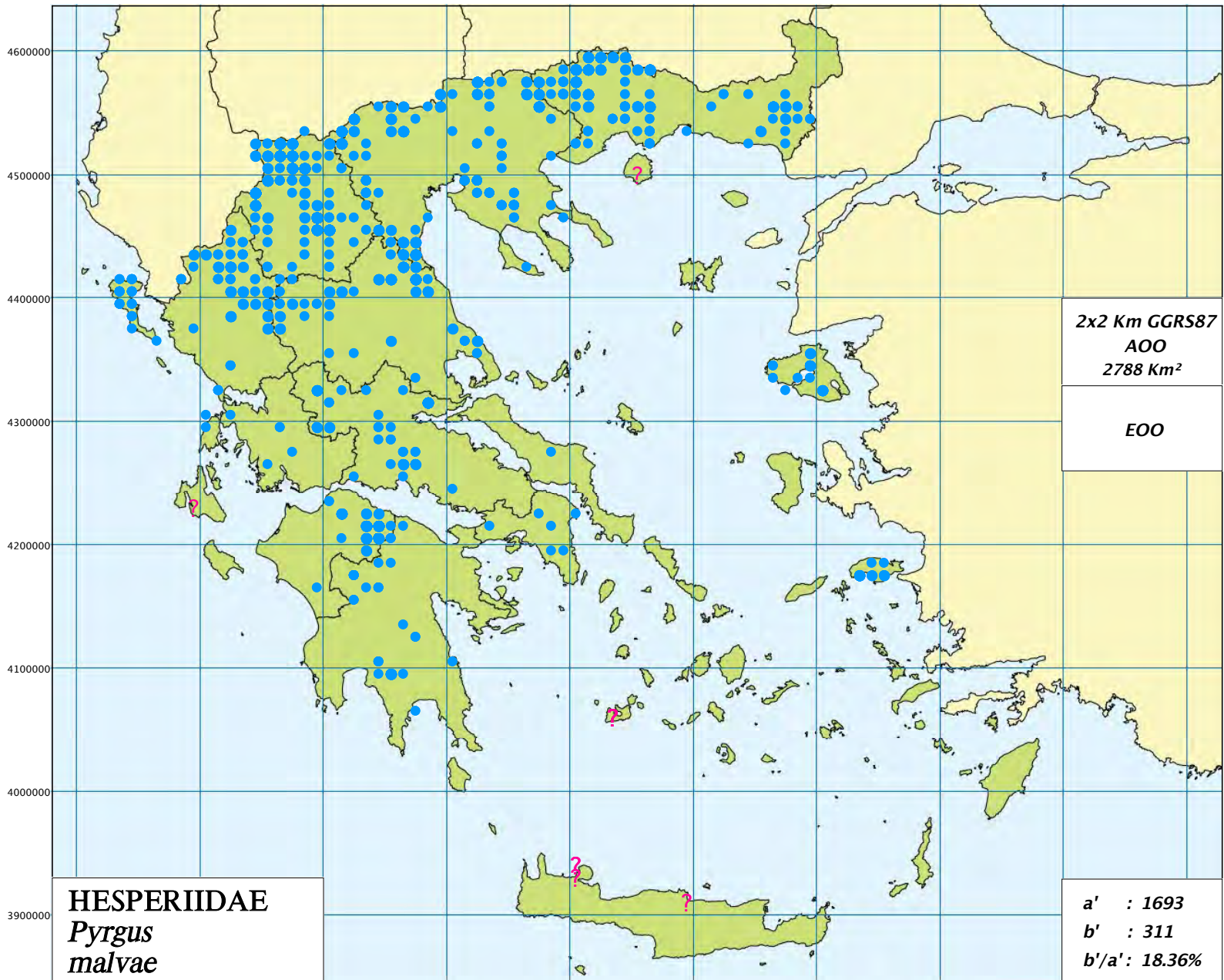


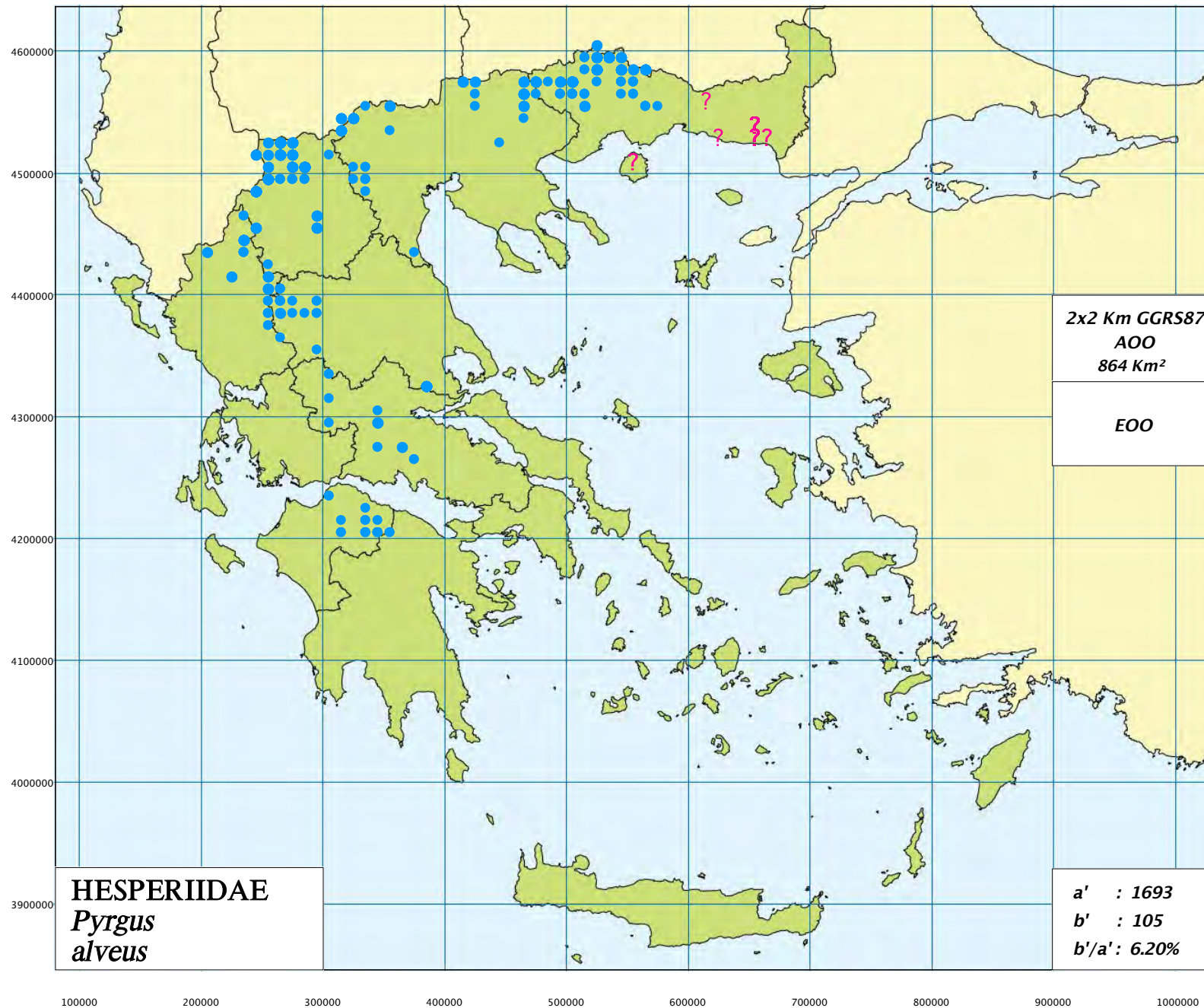


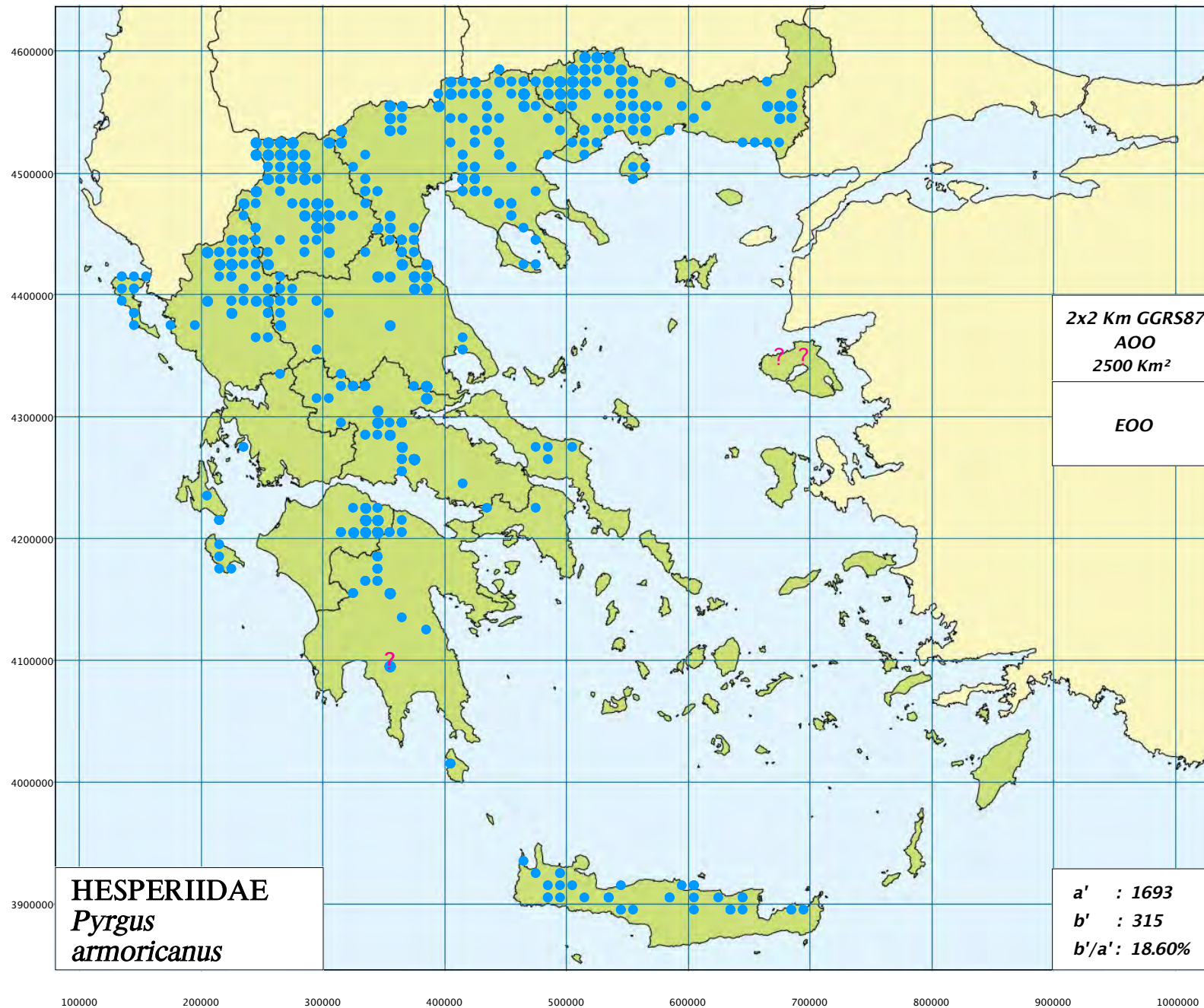


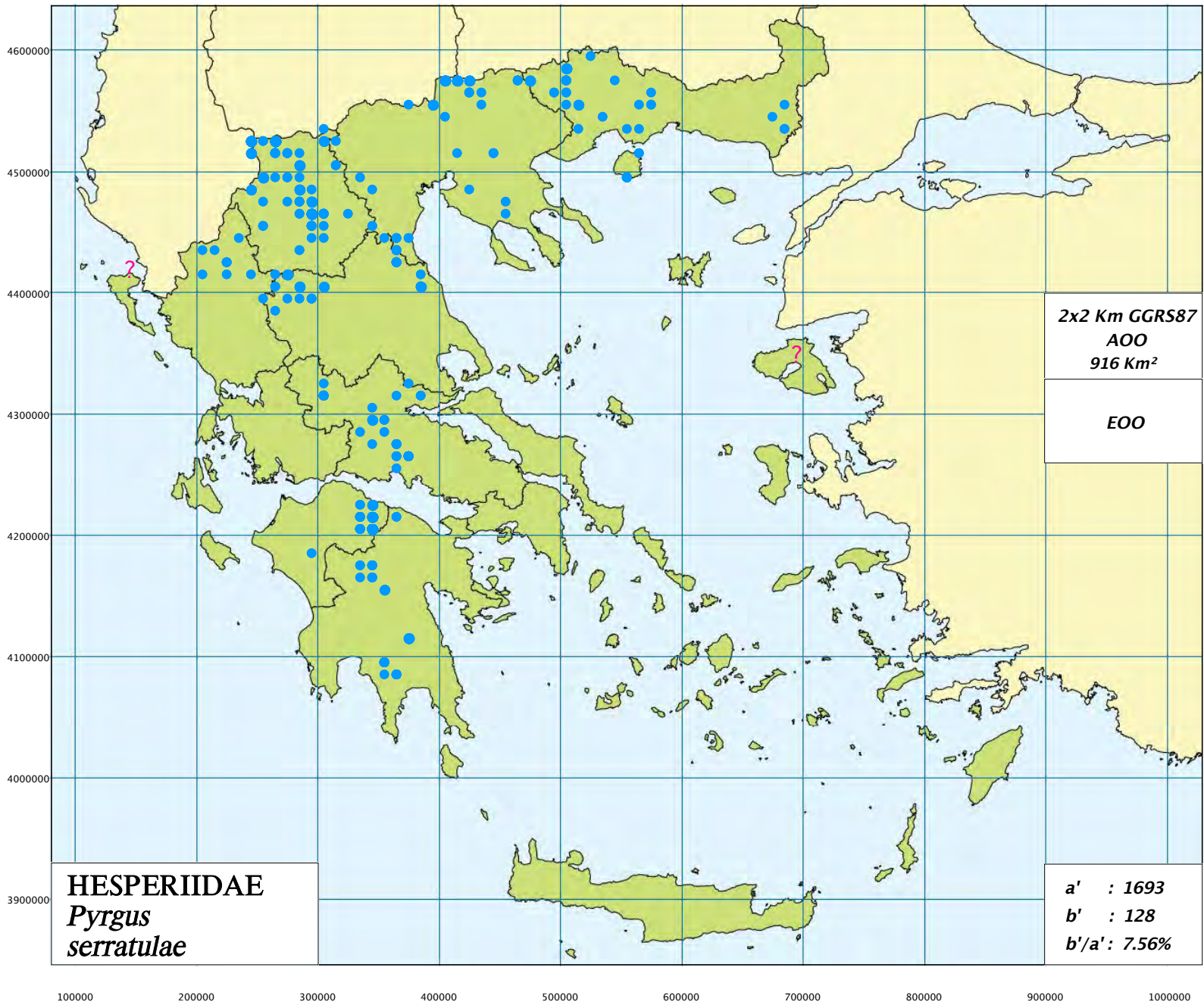


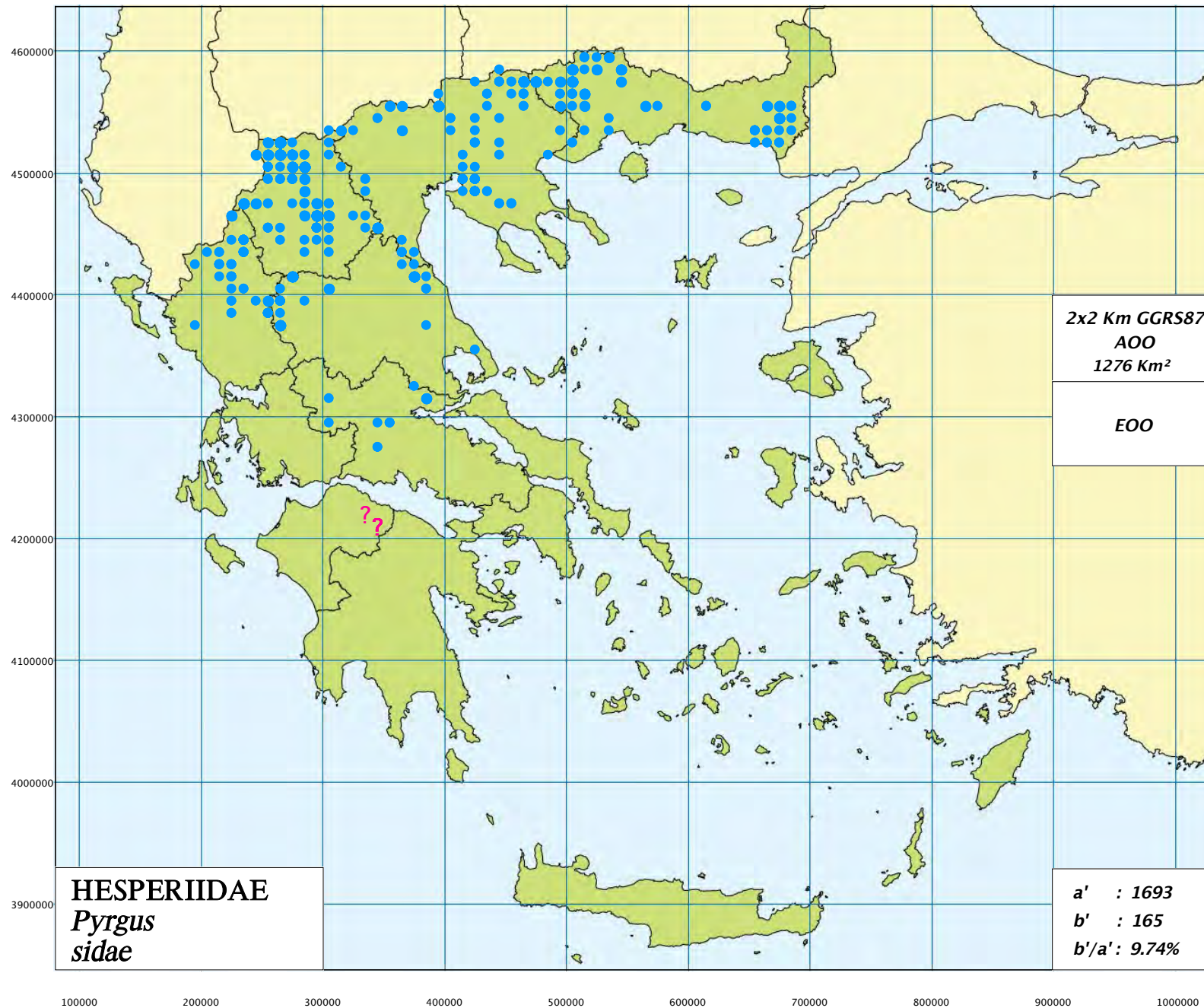






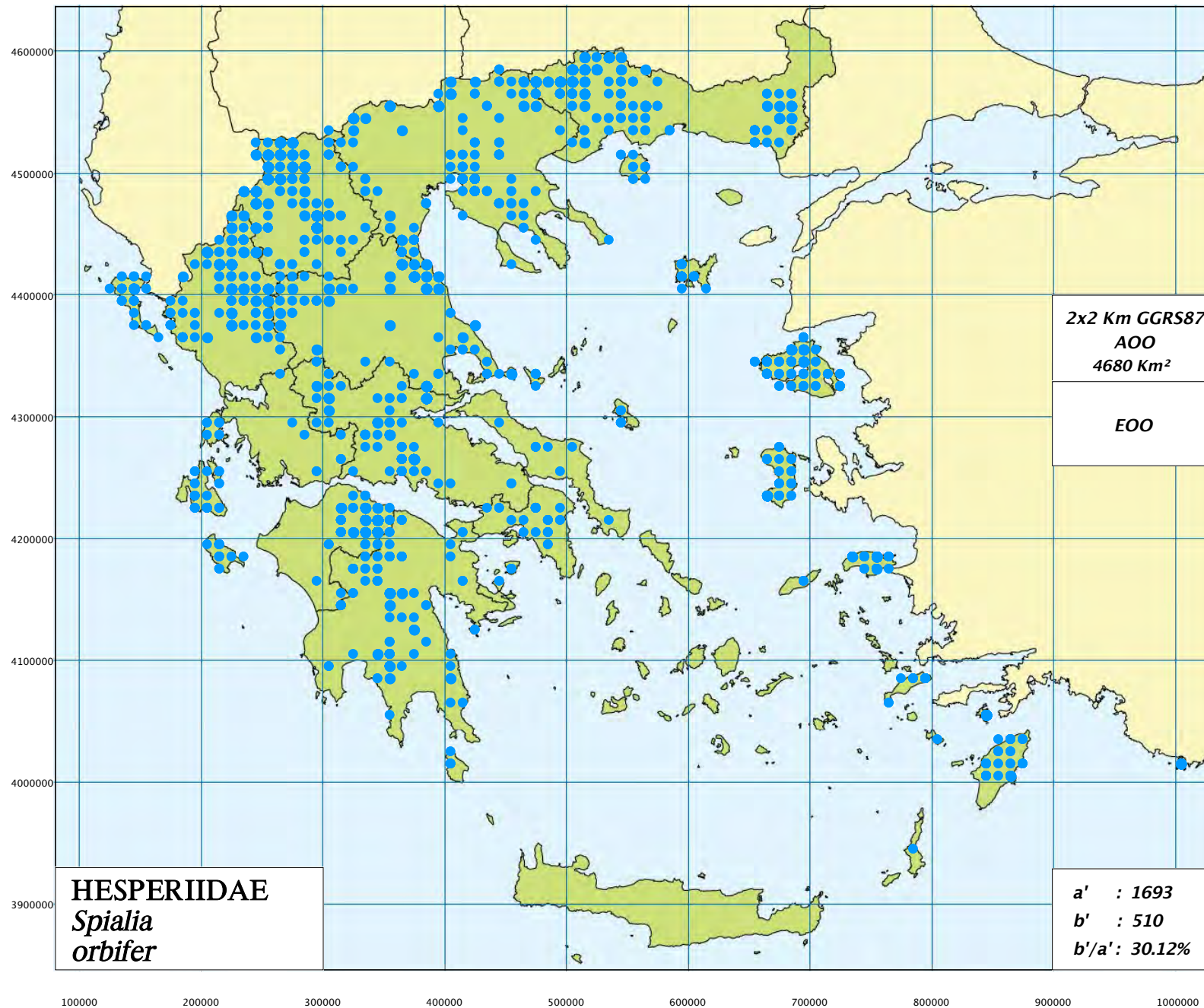


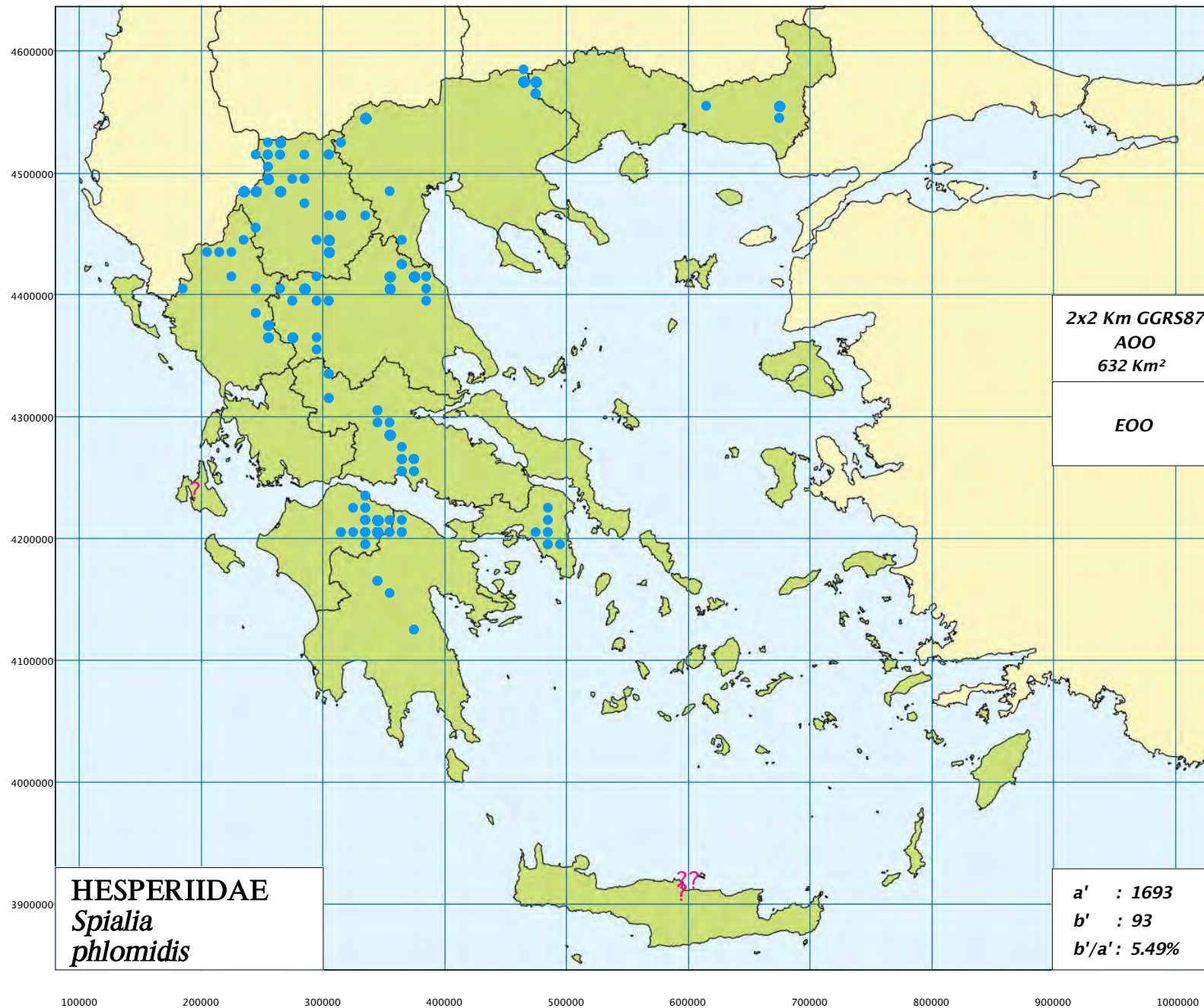


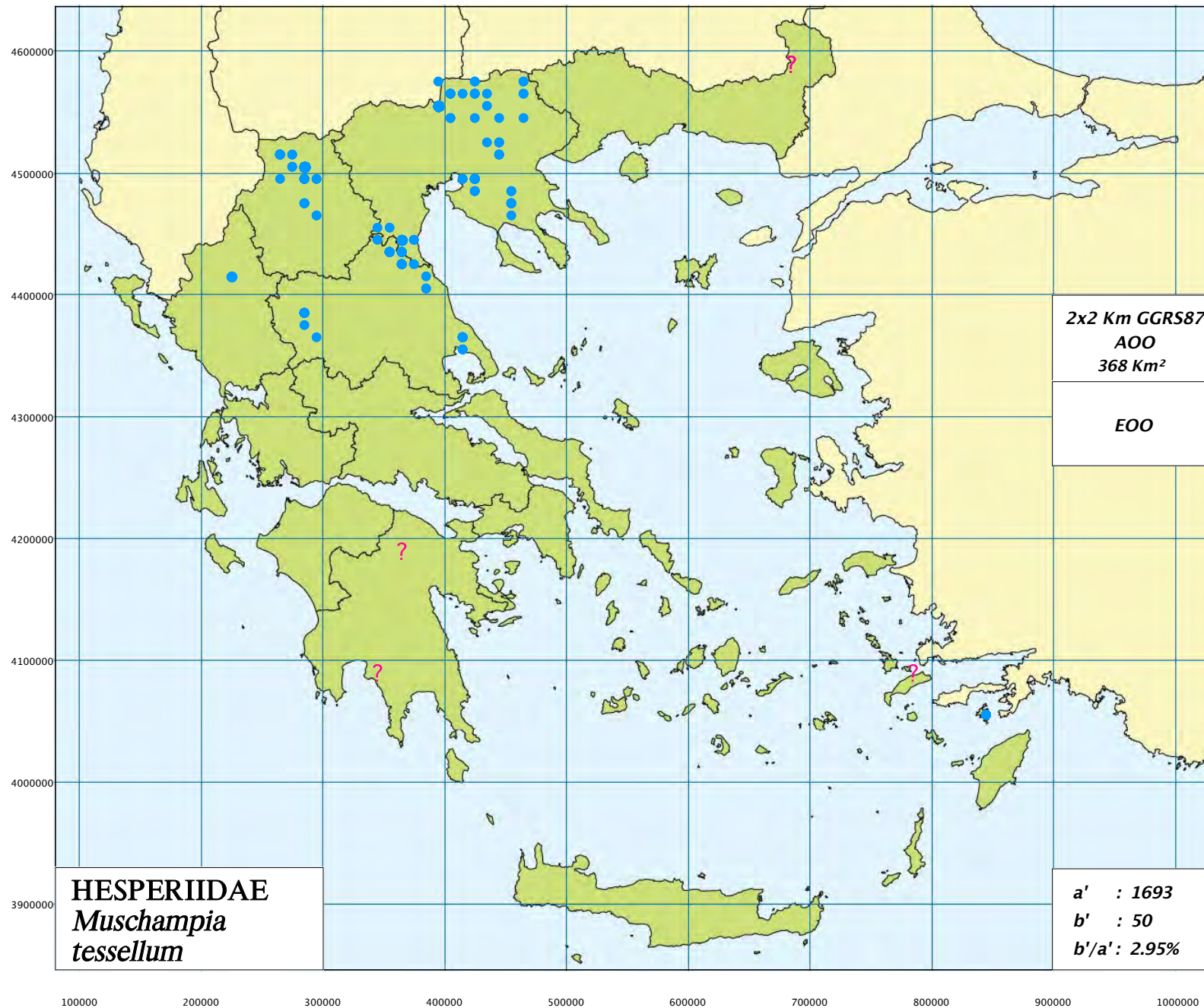


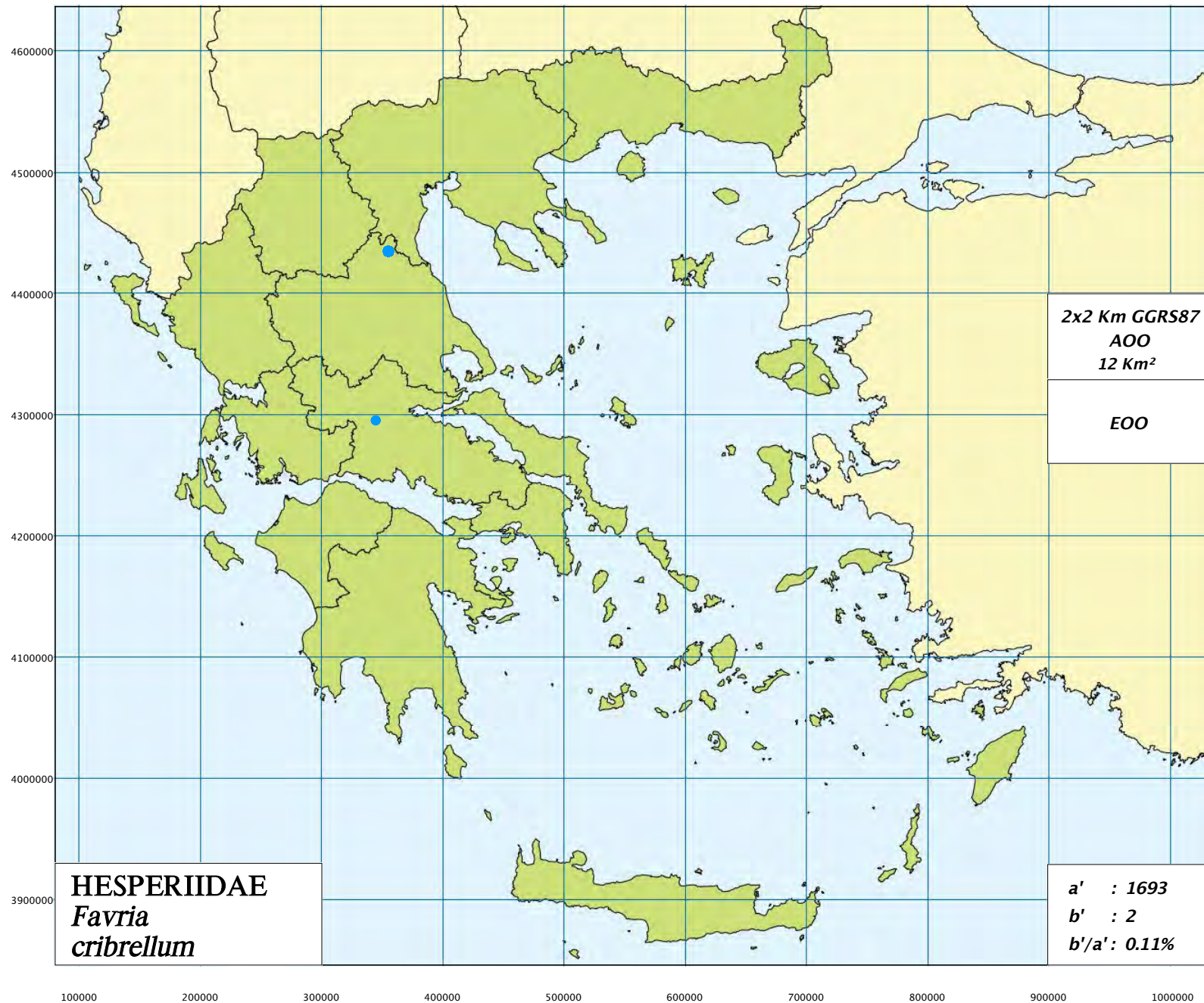


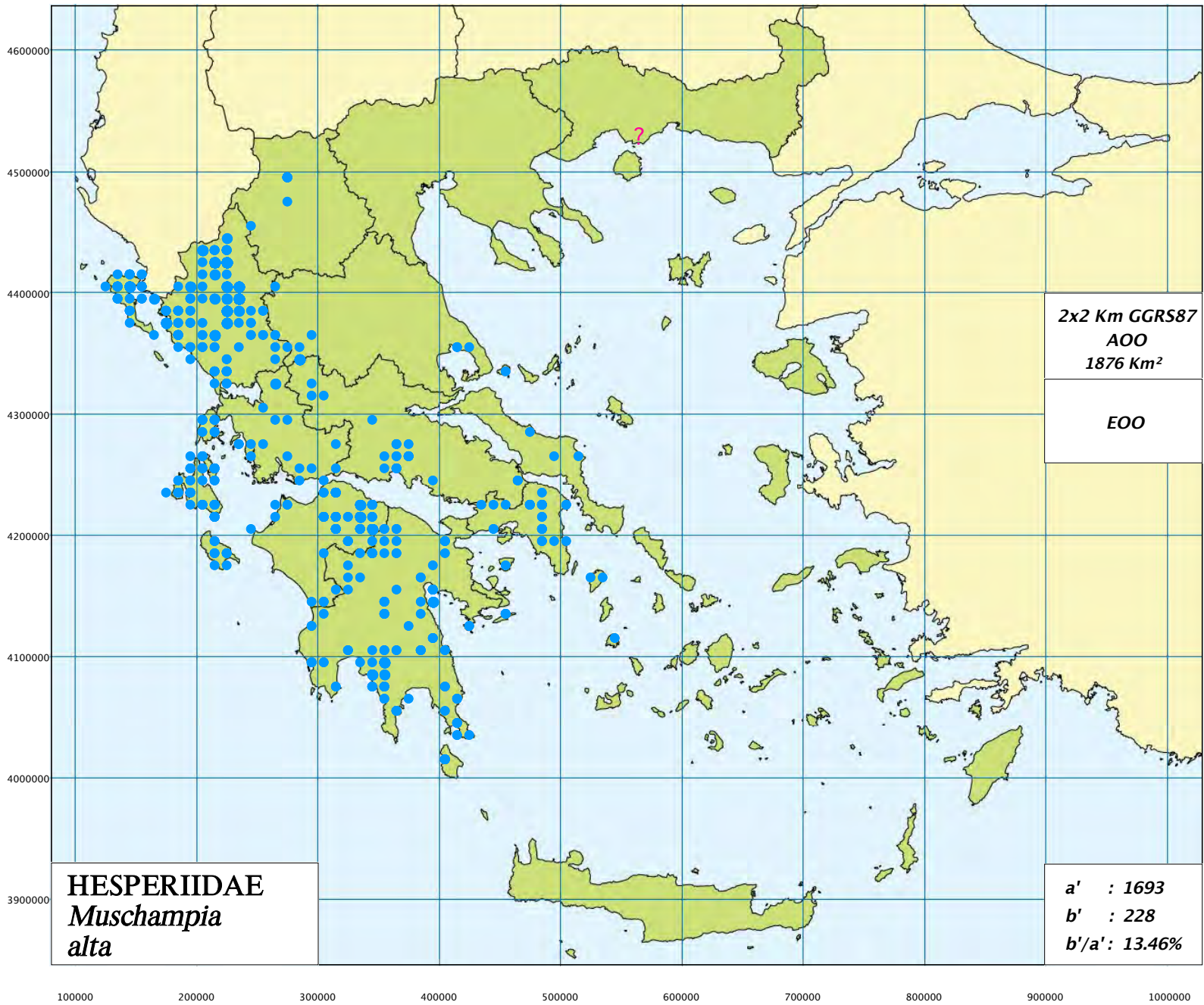


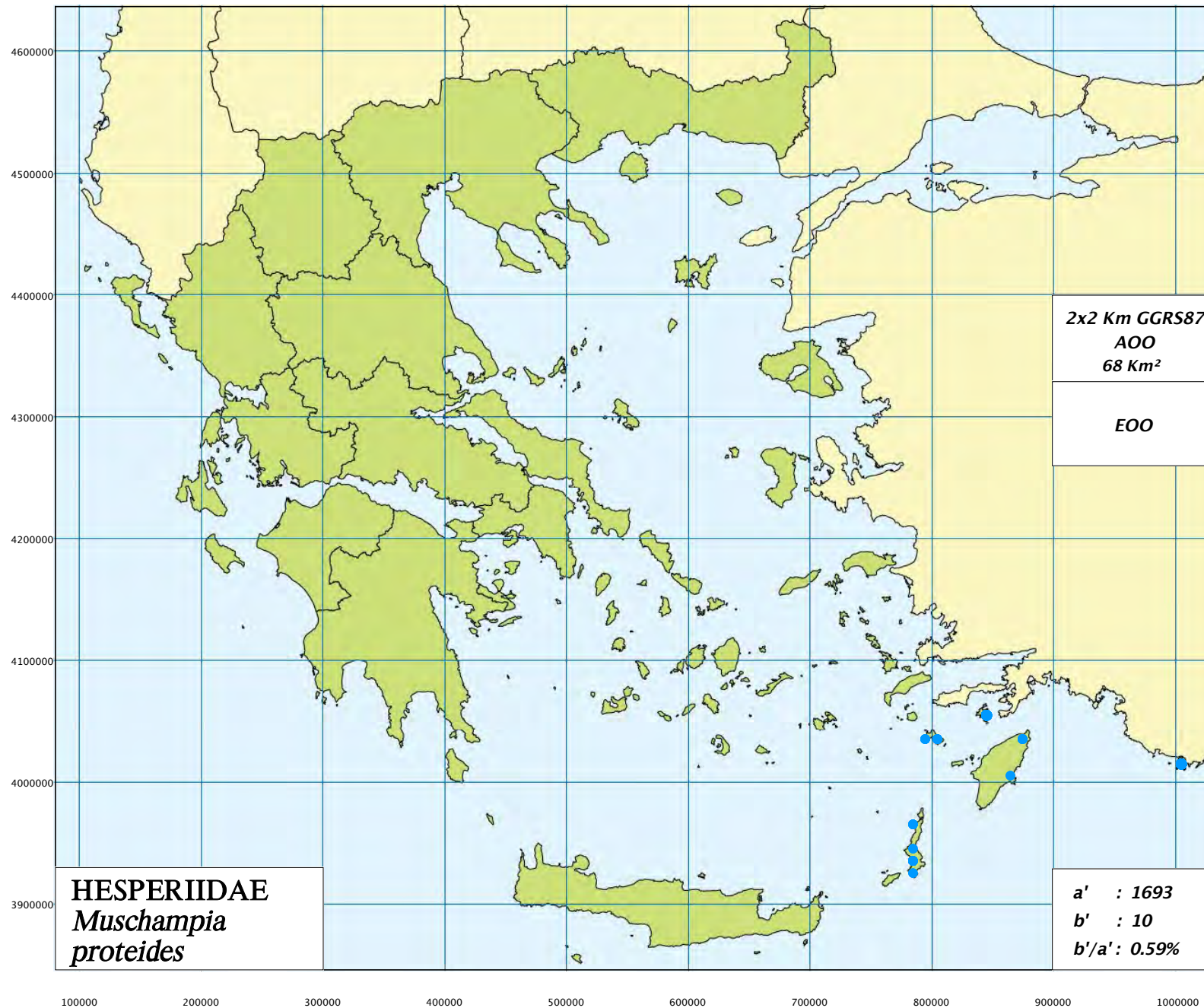


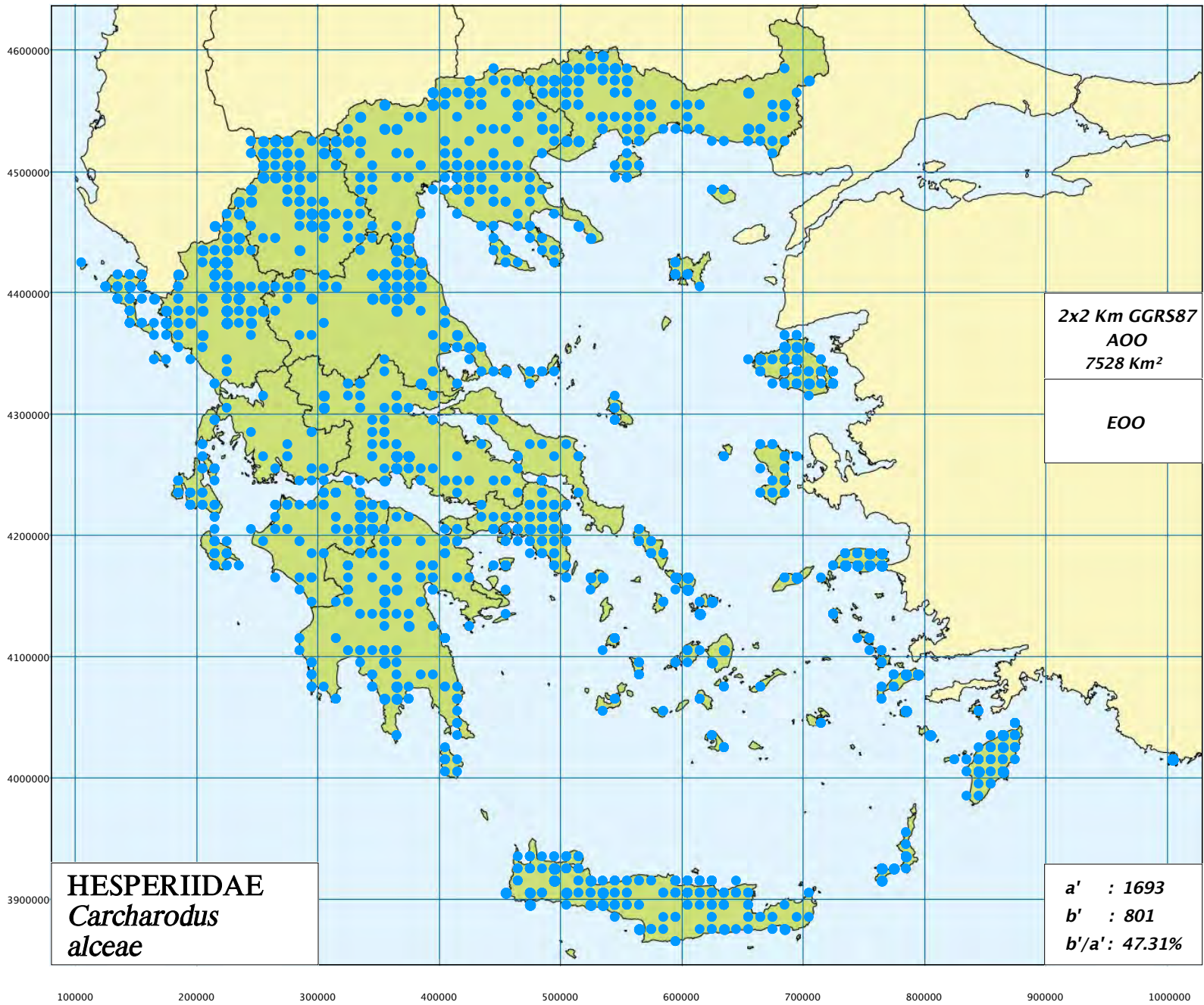


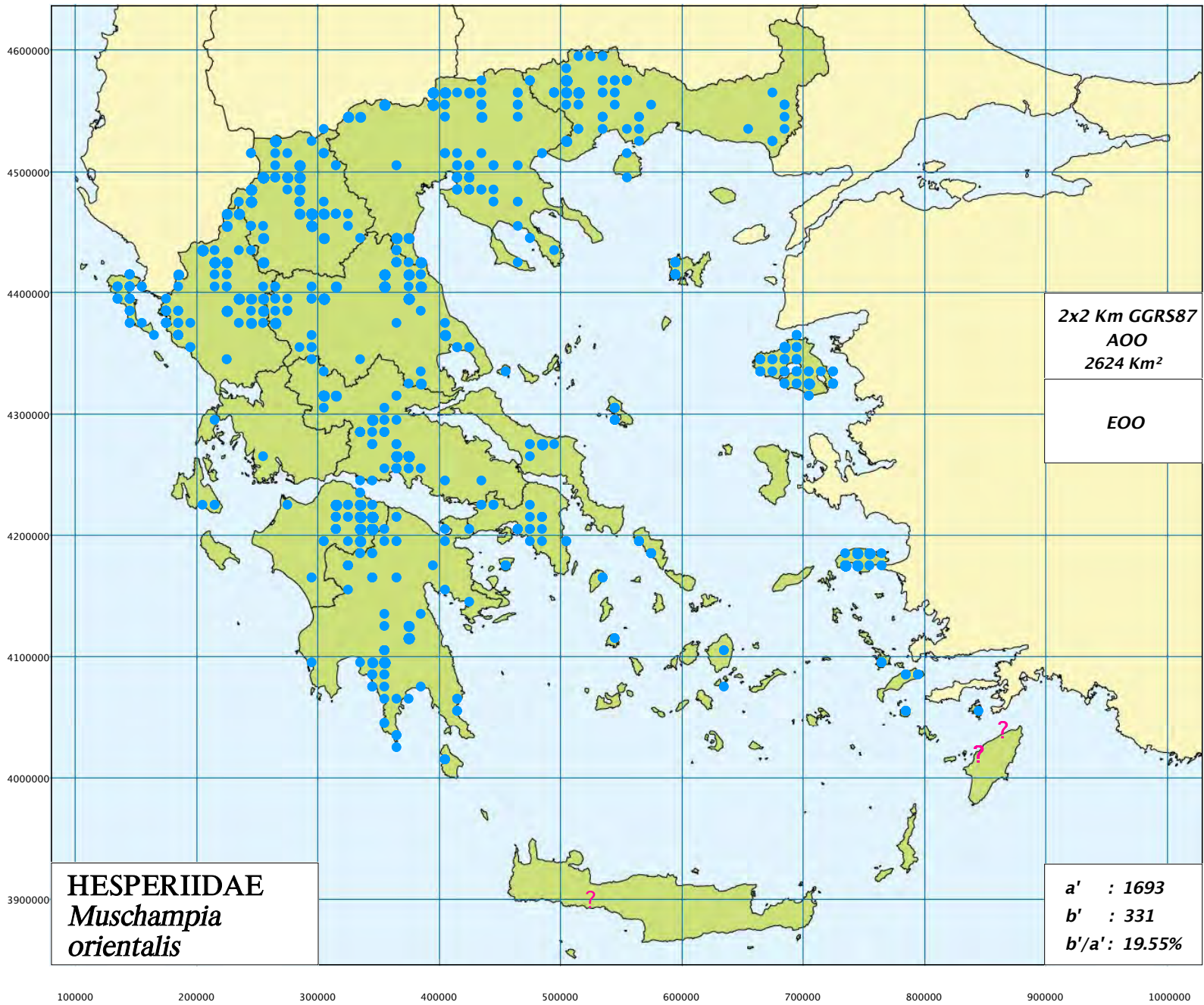


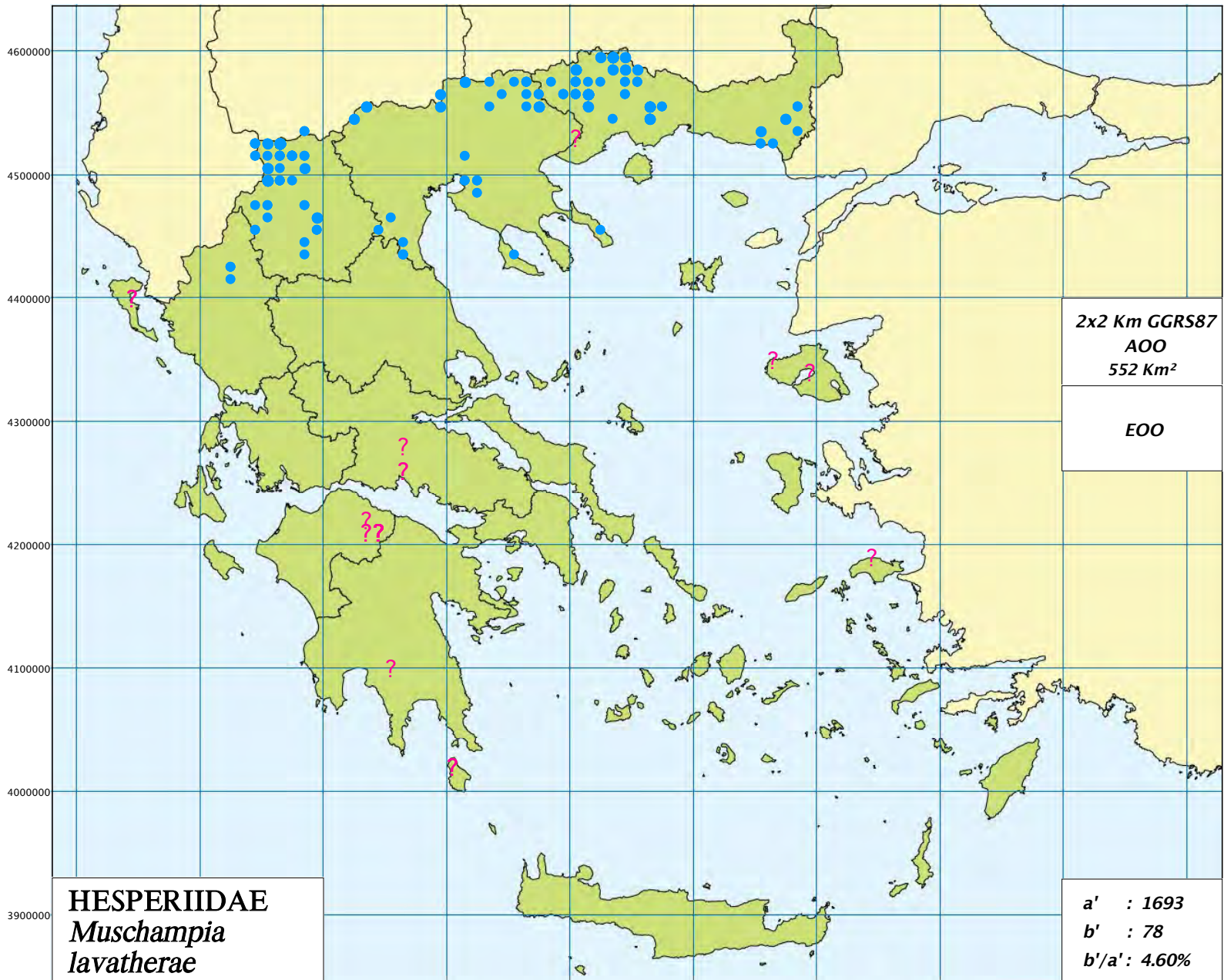












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