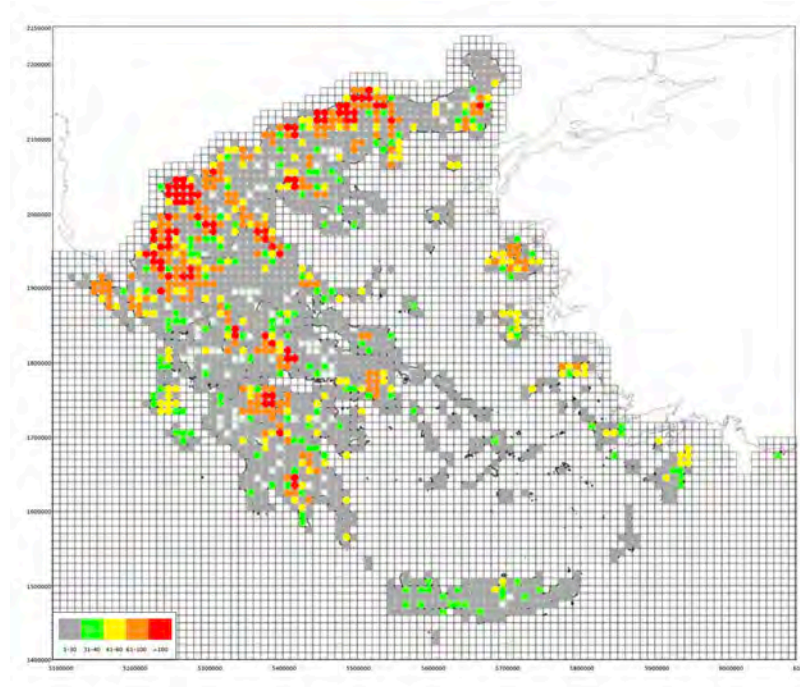


# ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

Νέοι Χάρτες κατανομής των ειδών 3.3" και Νέος Χάρτης 4.15"  
του Λάζαρου Ν. Παμπέρη



ETRS89

# THE BUTTERFLIES OF GREECE

New Maps distribution of species 3.3" and New Chart 4.15"

by Lazaros N. Pamperis

**2023**

# ΠΡΟΛΟΓΟΣ

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

Οι νέοι αυτοί χάρτες έχουν συντεταγμένες του συστήματος ETRS89 και αφορούν συνολικά 1657 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται (στους Χάρτες 3. 3") η ΑΟΟ (Area Of Occurance 1X1km και 2X2km) σε Km<sup>2</sup>. Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 461253 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2022 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2023) 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 3952 μέλη την 7 XII 2022) 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 Zhang et al (2020) στο <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8018707/>

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.

Λάρισα 1 Ιανουαρίου 2023  
Λάζαρος Ν. Παμπέρης

## PREFACE

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

The new Maps are made with coordinates in ETRS89, after in total 461253 records for the butterflies of Greece (till 31 XII 2021) for the 1657 investigated localities 10X10 km (compare to 265134 records, in 2008). For all species AOO (Area Of Occupancy 1X1km and 2X2km) is noted on Maps 3.3" in Km<sup>2</sup>.

This increase in records is made after personal investigations (from 2008-2023) 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 3952 members at 7 XII 2022) 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) στο <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8018707/>

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> in the 6 free applications 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 2023

Lazaros N. Pamperis

**SELECTED SITES FROM WHICH DATA FOR THE BUTTERFLIES OF GREECE WERE OBTAINED**  
**ΕΠΙΛΕΓΜΕΝΟΙ ΙΣΤΟΤΟΠΟΙ ΑΠΟ ΤΟΥΣ ΟΠΟΙΟΥΣ ΑΝΤΛΗΘΗΚΑΝ ΚΑΤΑΓΡΑΦΕΣ ΓΙΑ ΤΙΣ**  
**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/](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/>

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

**και and**

**ΠΡΟΣΩΠΙΚΕΣ ΕΠΙΚΟΙΝΩΝΕΙΕΣ PERSONAL COMMUNICATIONS**

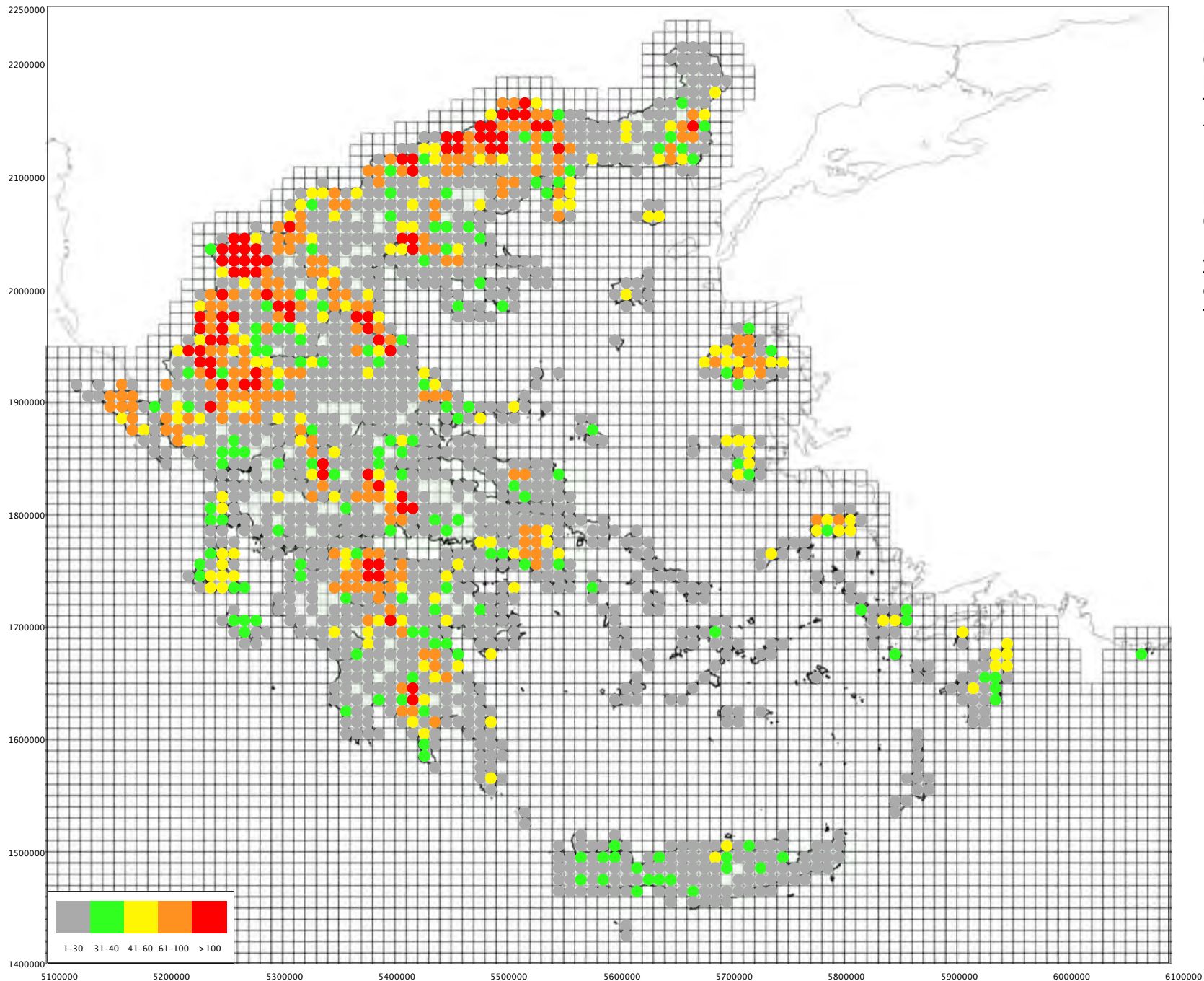
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ΤΣΙΦΛΑΚΗΣ ΕΛΕΥΘΕΡΙΟΣ  
ΤΣΟΥΚΛΕΙΔΗΣ ΓΕΩΡΓΙΟΣ  
ΦΑΚΑΣ ΓΕΩΡΓΙΟΣ  
ΦΑΤΣΕΑ ΣΤΑΥΡΟΥΛΑ  
ΧΑΛΚΙΑΔΑΚΗΣ ΠΕΤΡΟΣ  
ΧΑΛΚΙΑΣ ΒΑΣΙΛΗΣ  
ΧΑΤΖΗΑΘΑΝΑΣΙΟΥ ΓΙΑΝΝΗΣ  
ΧΑΤΖΗΔΑΚΗΣ ΠΑΝΑΓΙΩΤΗΣ Ι  
ΧΡΙΣΤΟΠΟΥΛΟΥ ΜΑΙΡΗ  
ΧΡΙΣΤΟΦΙΔΗΣ ΓΙΑΝΝΗΣ  
ΨΑΛΛΙΔΑΣ ΒΑΣΙΛΗΣ  
ALBRECHT MARTIN  
BAUDRAZ MICHEL  
BEAUSKOMP PETER C  
BERRY MATT  
BESHKON STOYAN  
BONETTI ANDREA  
BOWERS JOHN K  
BOZANO GIAN  
BROWN JOHN  
BURRETT PETER  
BYGATE PETER  
CARPENTER ALAN  
CHAULIAC ANDRE  
COBB CHRIS  
COUPE J.  
COURCY WILLIAMS MICHAEL  
COWAN PAUL  
CREPIN M.P  
CUVELIER SYLVAIN  
DAHL MAGNUS  
DARCÉMONT CHRISTIAN  
DIJON CATHERINE  
DINCĂ VLAD  
DOWDING JULIAN

DROUET ERIC  
DUDLEY STEVE  
DURDIN CHRIS  
EDDIE JOHN  
EDMUNDS HENRY. A  
ELLIS SAM  
FENN PATRICIA  
FOLEY MICHAEL  
FOWLES ANDRIAN P.  
FOX KIM  
FOX RITCHARD  
FULLER MICHAEL  
GATTI FRANCESCO  
GIBSON CHRIS  
GODDARD DAVID  
GOETHALS VALERIE  
GREATOREX-DAVIES NICK  
GUILFOYLE A.  
HAATELA TARI  
HABELER HEINZ  
HALL D  
HAPKA TAMAS  
HEAP JOHN  
HULL MIKE  
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  
PLOWMAN FRANCIS  
PLOWMANE 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

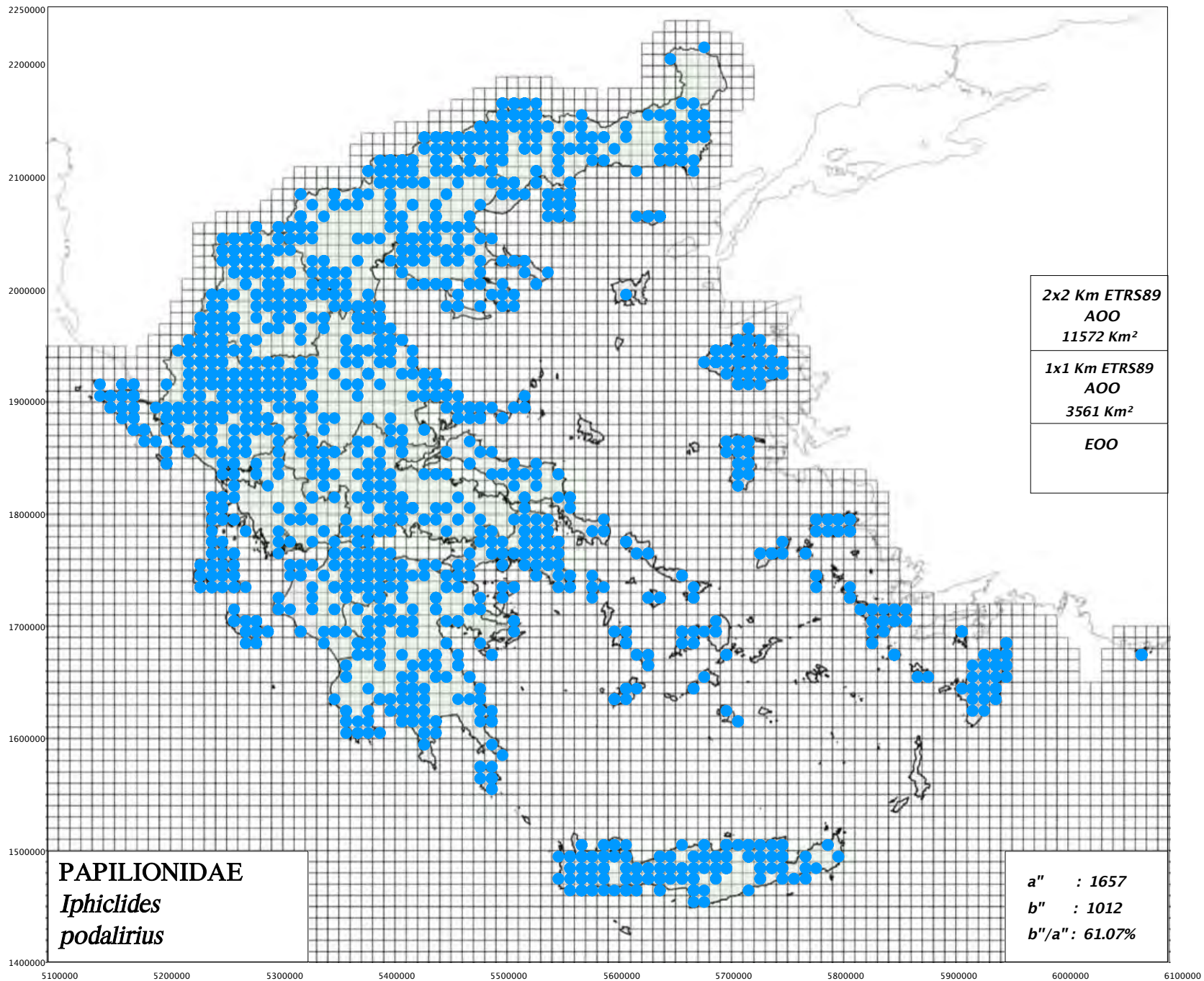
SCARLAU ASTRID  
SCHAIDER PAUL  
SEEPMA HERRE  
SELBY PAUL  
SIOUX LEFTY  
SMETHURST MIKE  
SPENCER SIMON  
SPEYBROEK JEROEN  
SPILLER JOY  
SPRUYTTE STEF  
STANDRING KEVIN  
STANLEY G. A.  
STEUR JOEP  
STUBGAARD JORGEN  
SUTTON PETER  
SVELKUTIS MICK  
SZEKELY LEVENTE  
TAYLOR MIKE  
THOMPSON NEIL  
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.  
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WICKMAN PER-OLOF  
WIRTH ALEXANDER  
WRIGHT DAVE  
WYNNE IAN R  
ZIEGLER HEINER



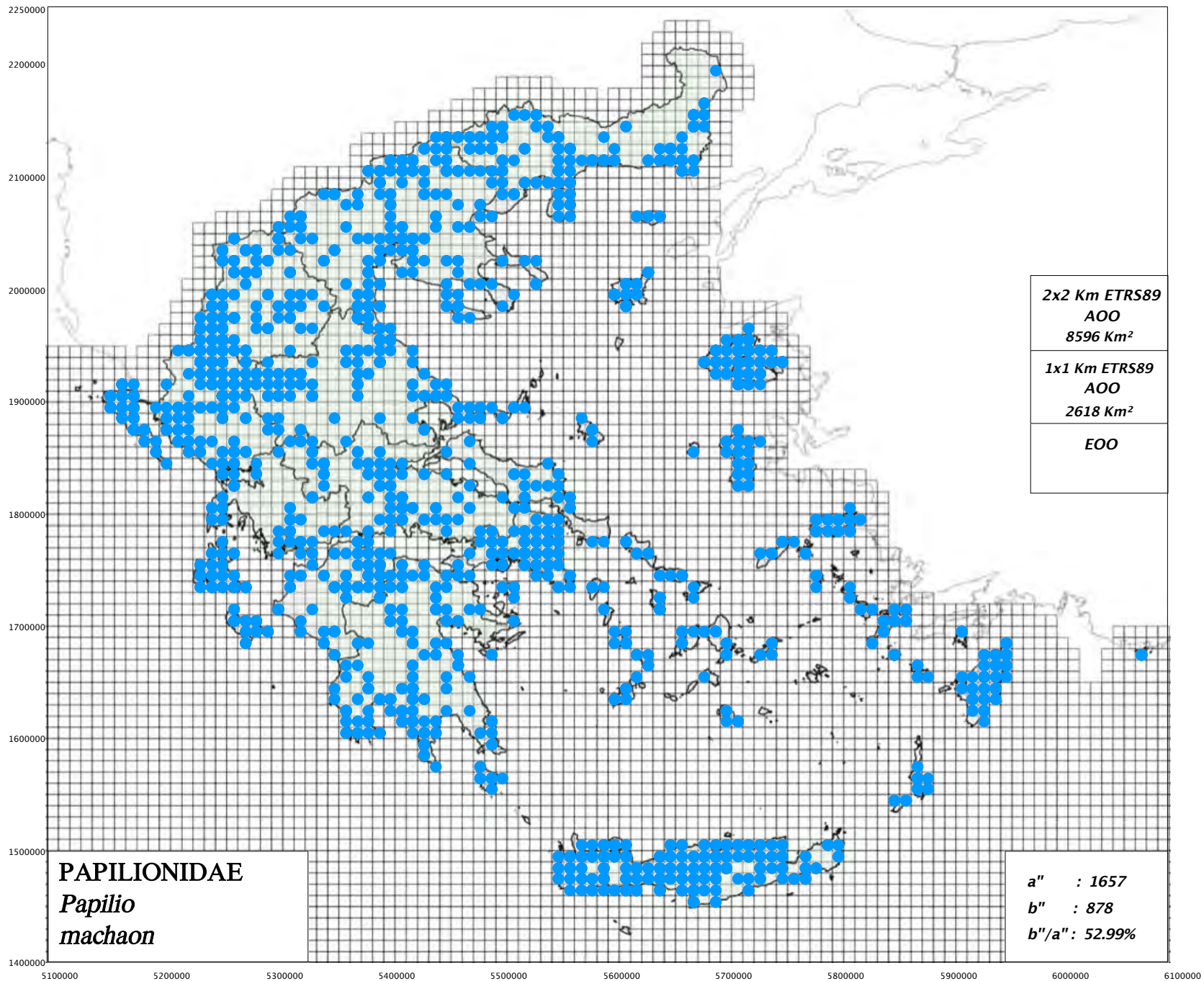
**New Chart 4.15"**  
 (update 2023 version in  
 ETRS89)  
 Total number of species  
 for all 1657 localities  
 10X10km

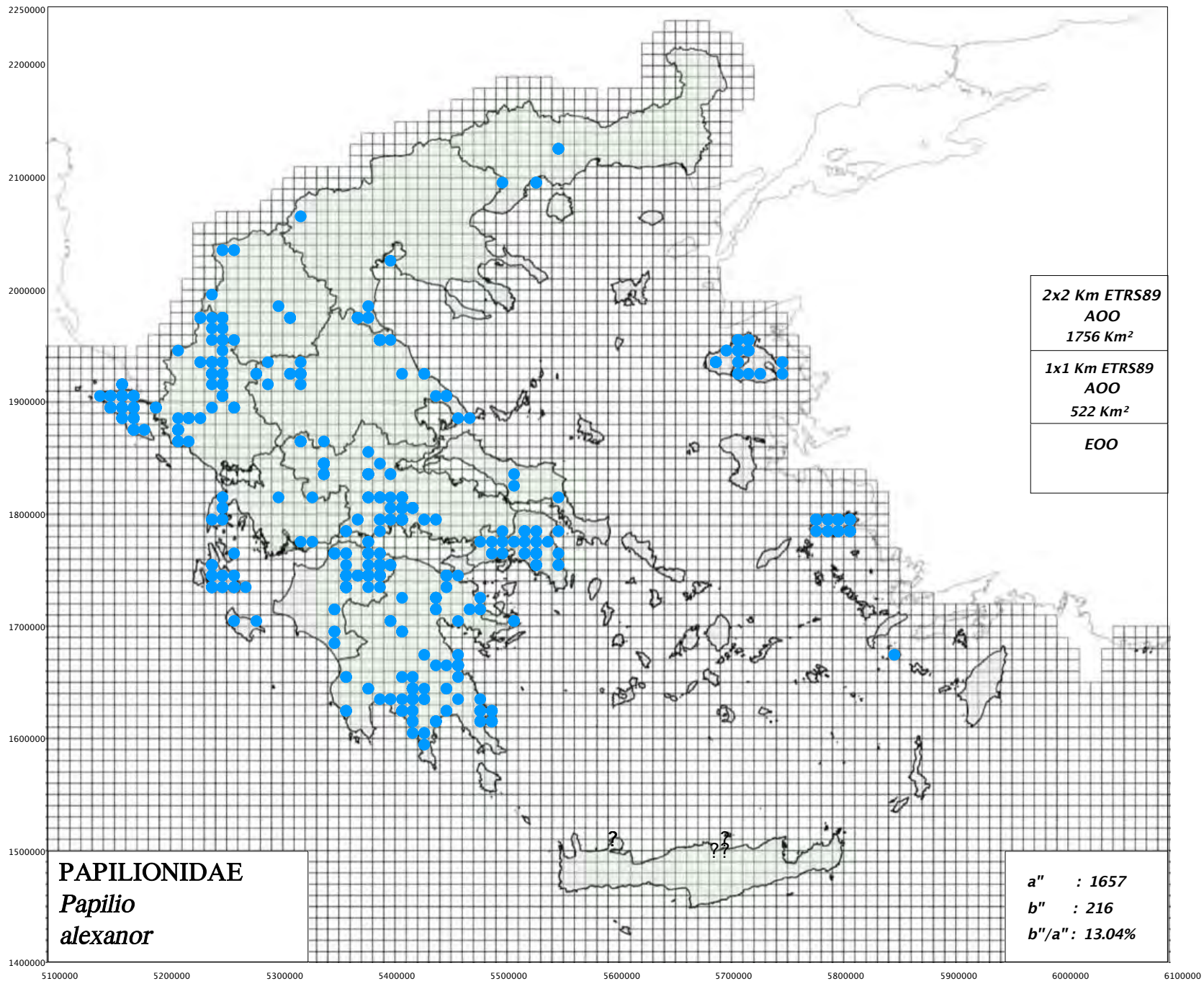
**Νέος Χάρτης 4.15"**  
 (επικαιροποίηση 2023  
 με συντεταγμένες ETRS89)  
 Συνολικός αριθμός των  
 ειδών για όλες τις 1657  
 τοποθεσίες 10X10 km



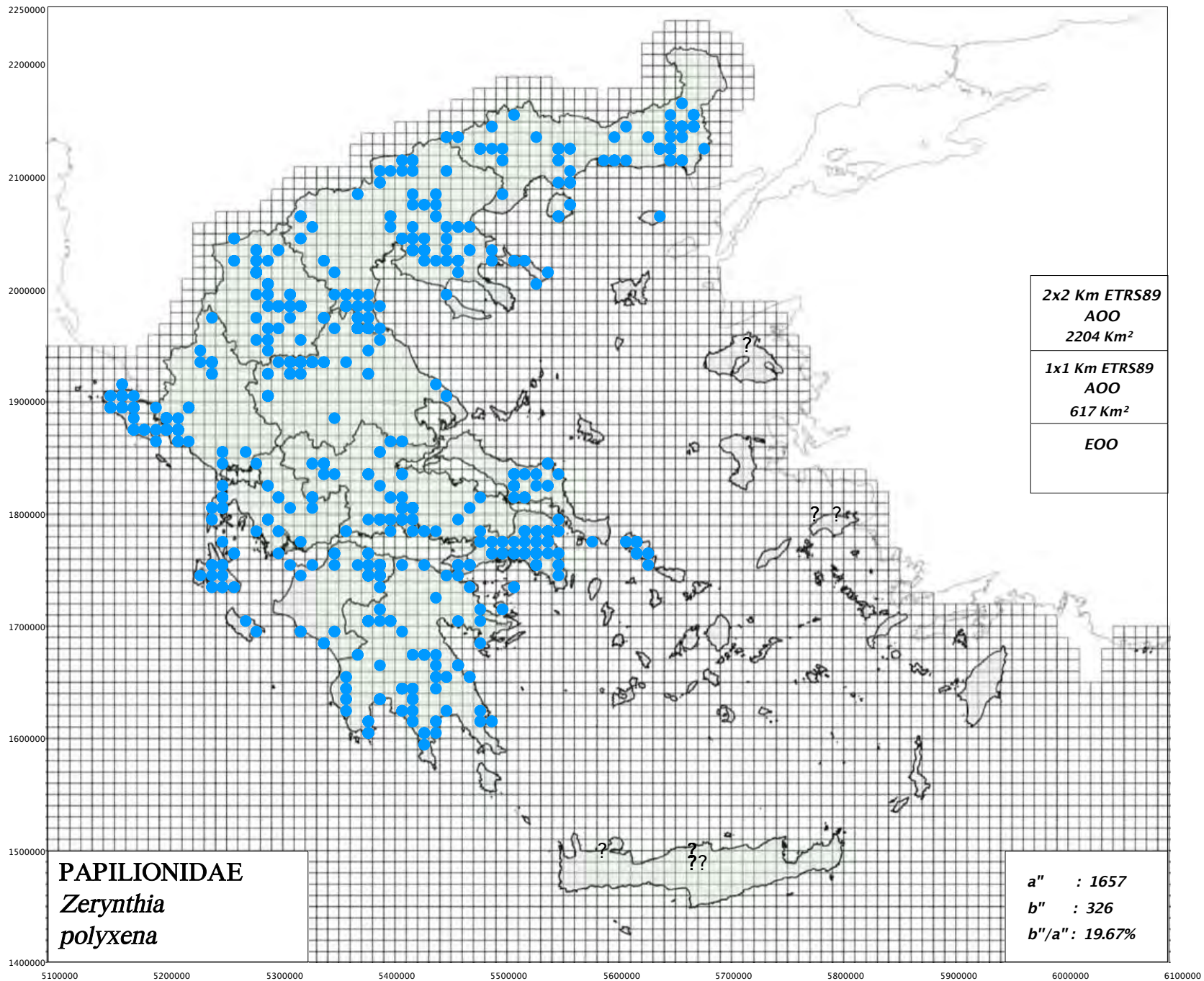


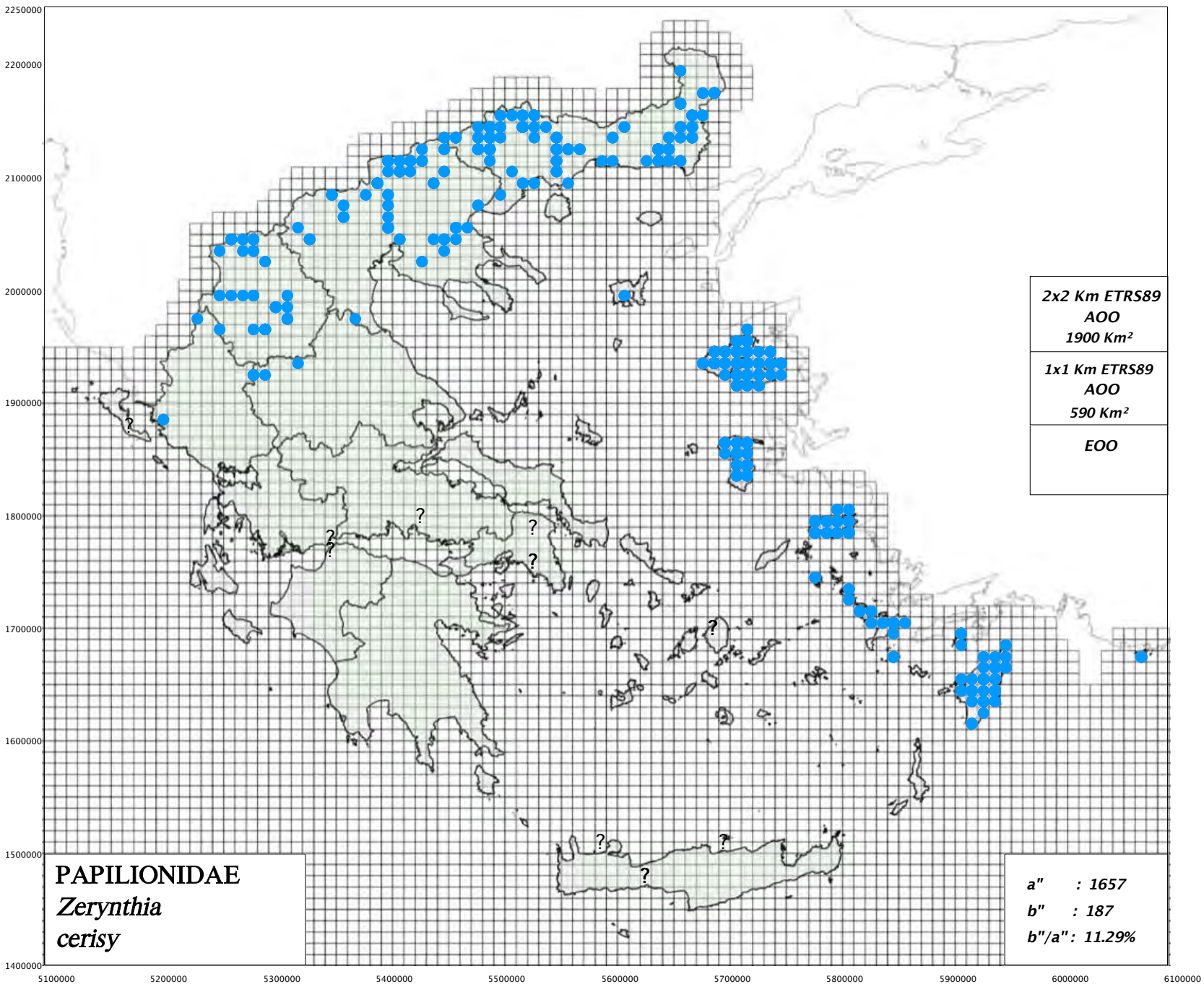




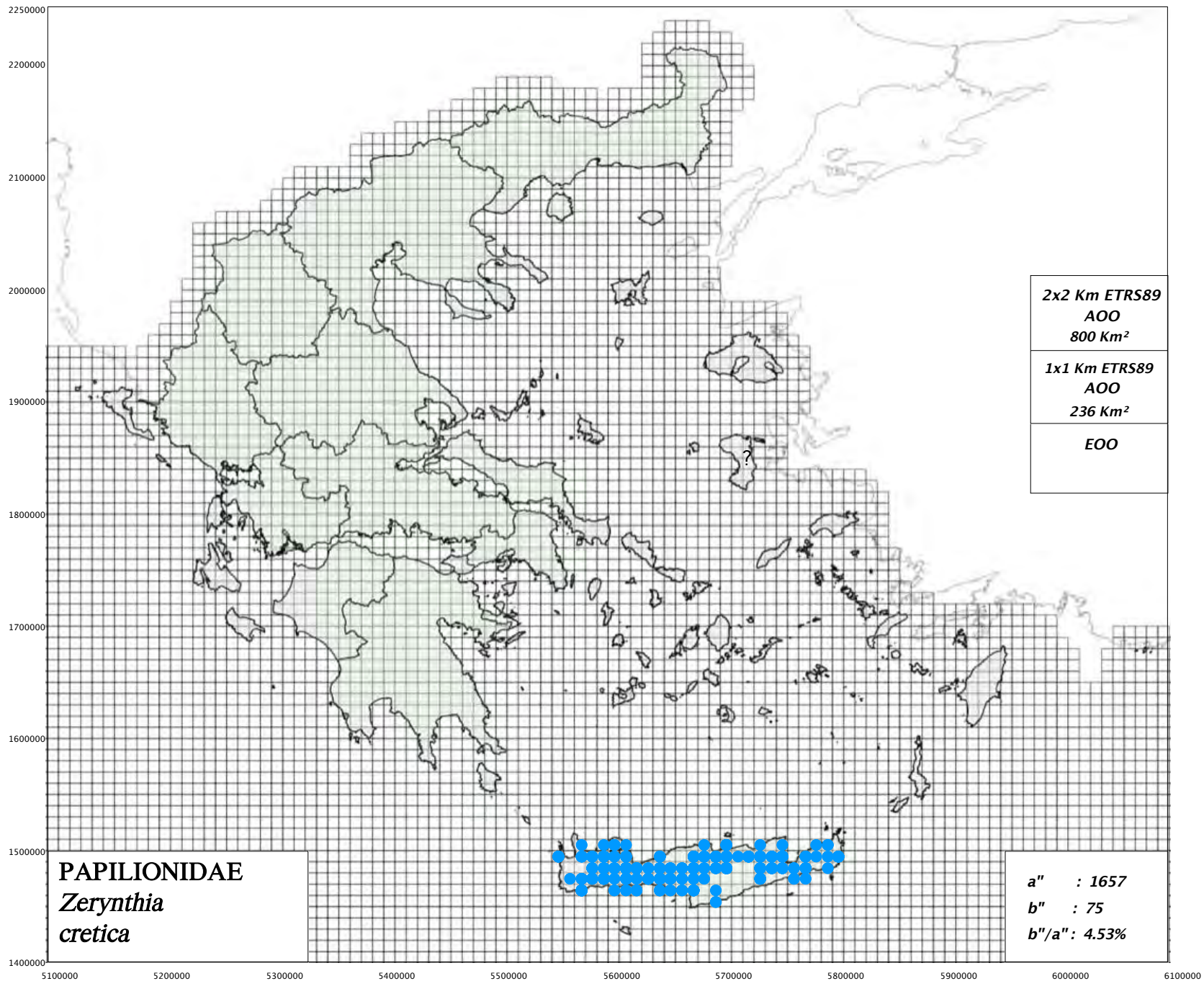




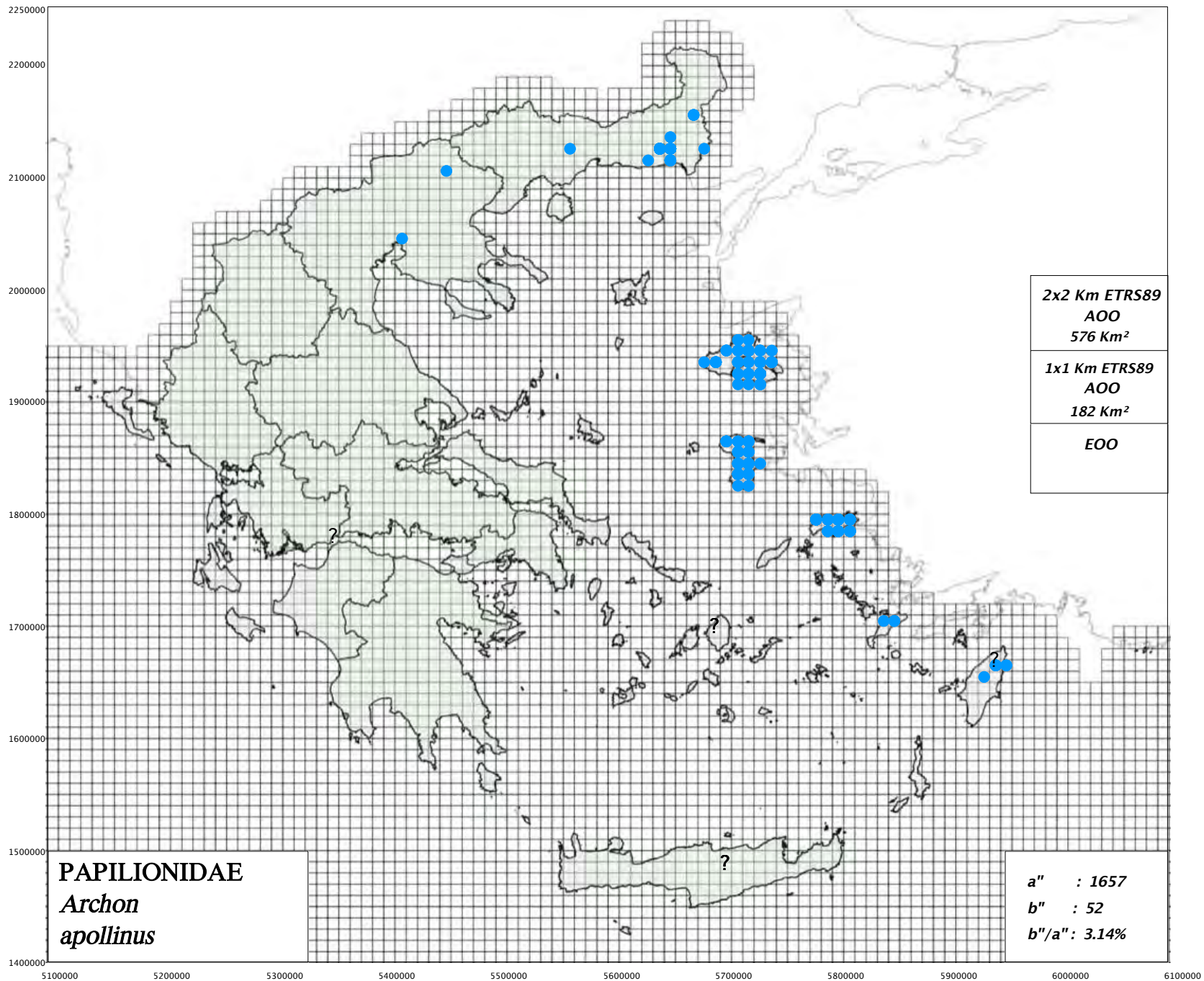


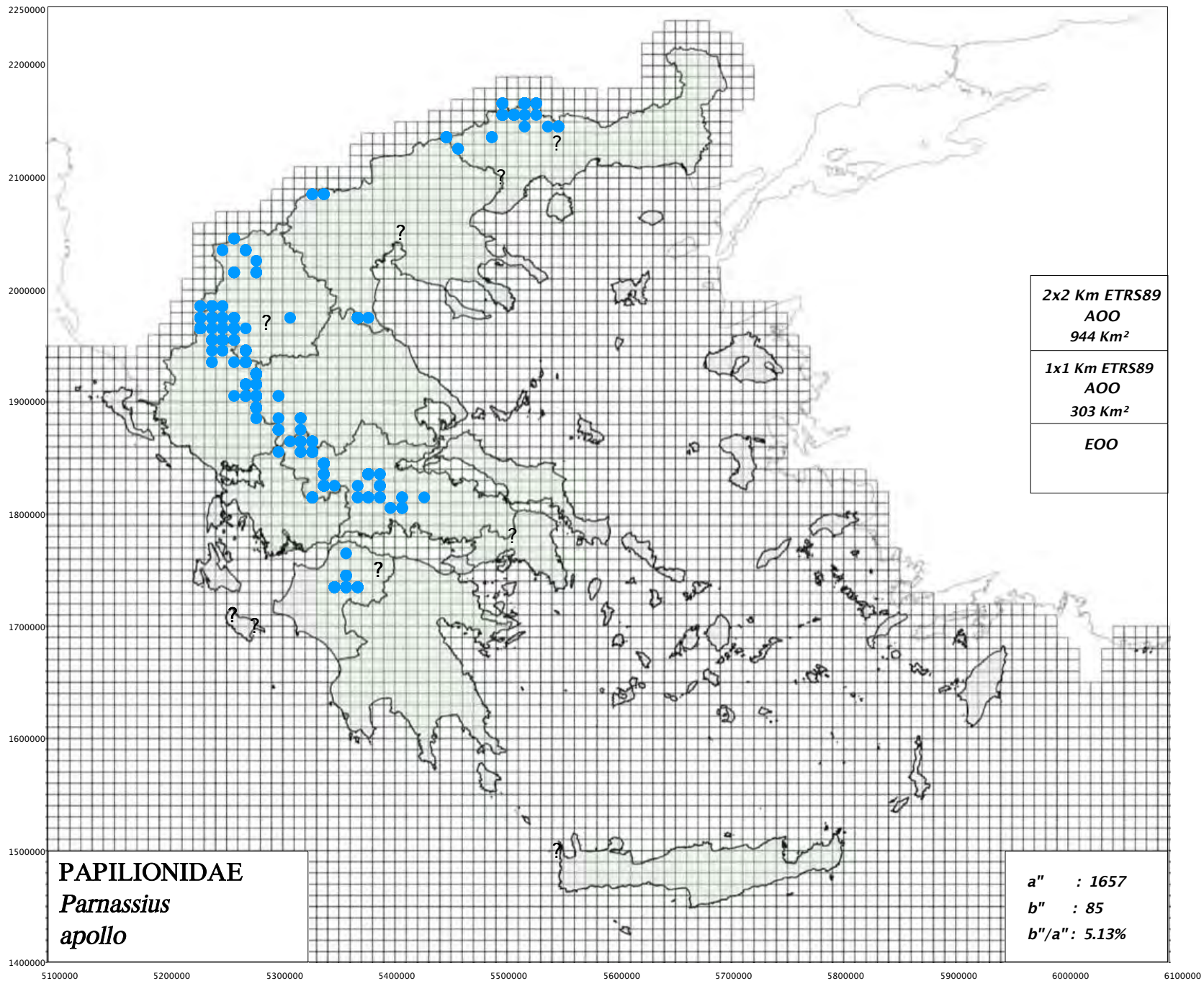




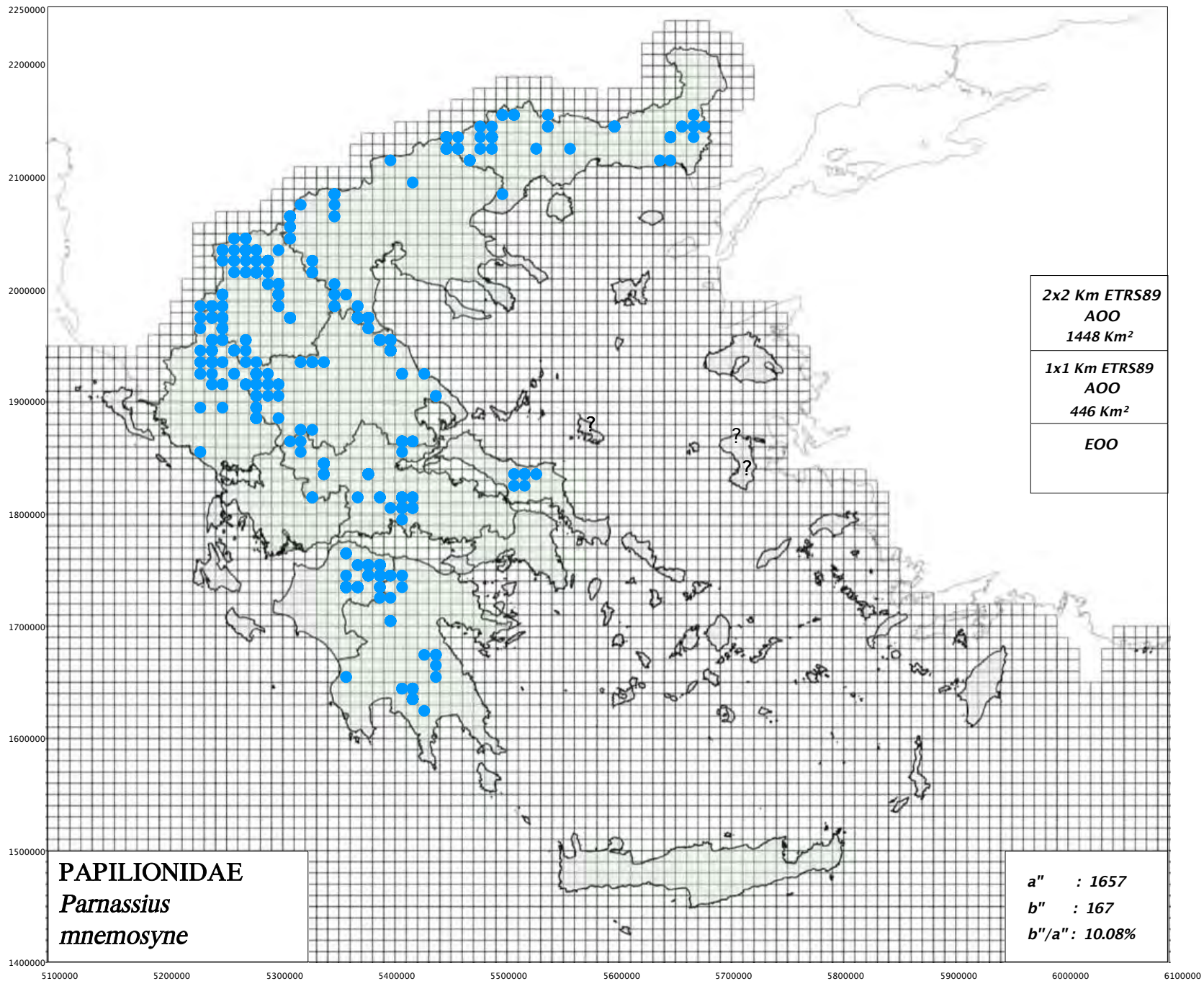


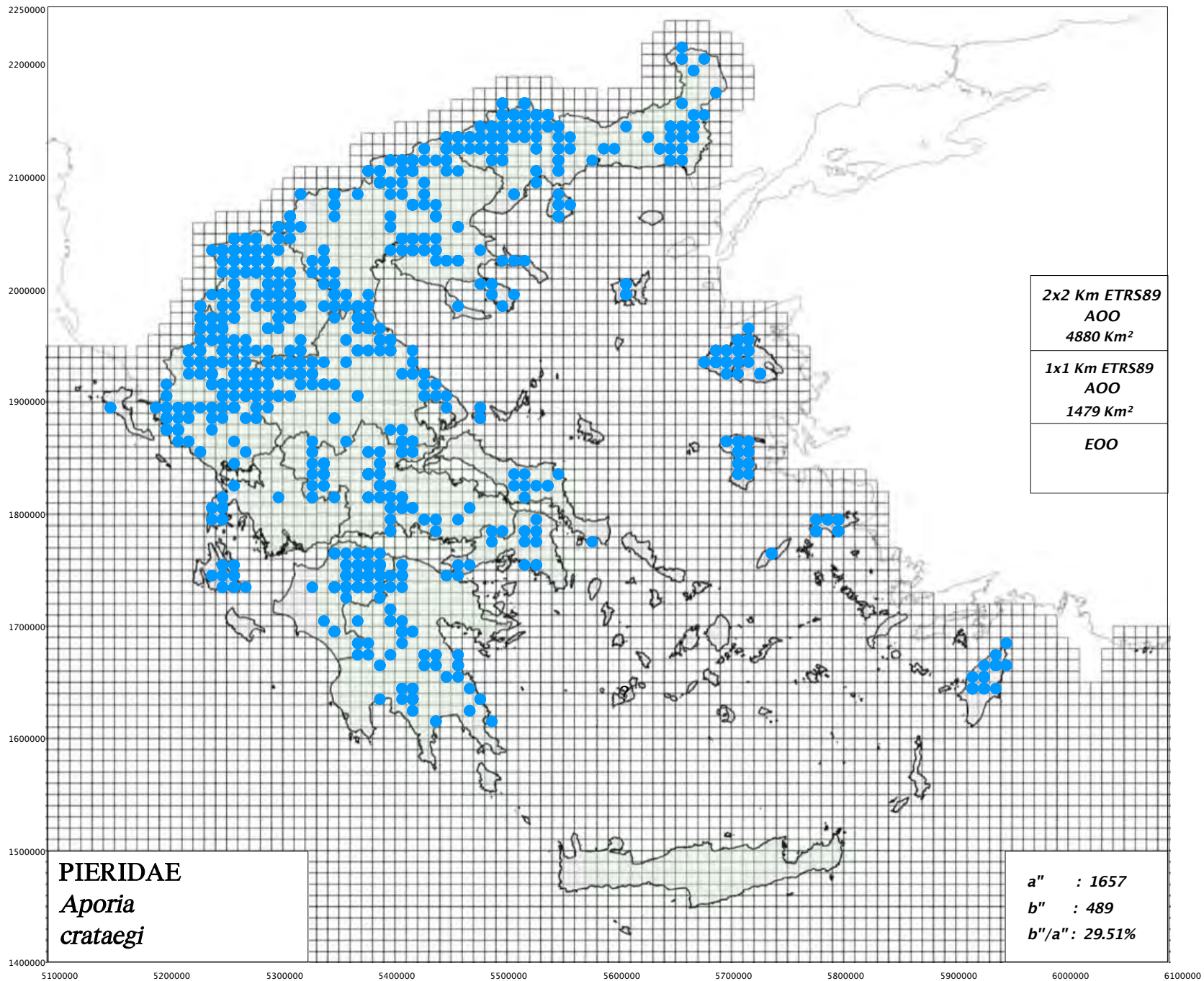




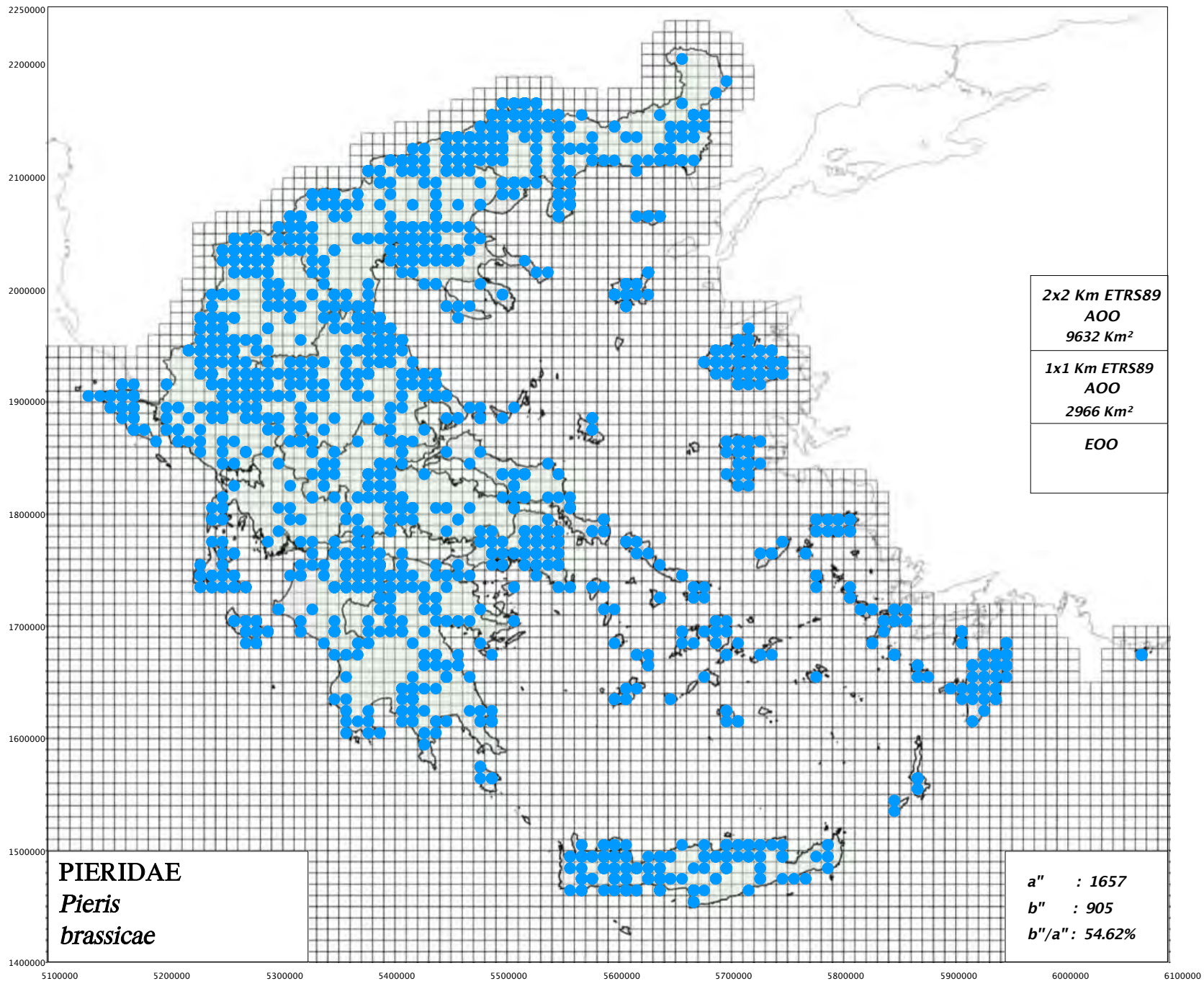




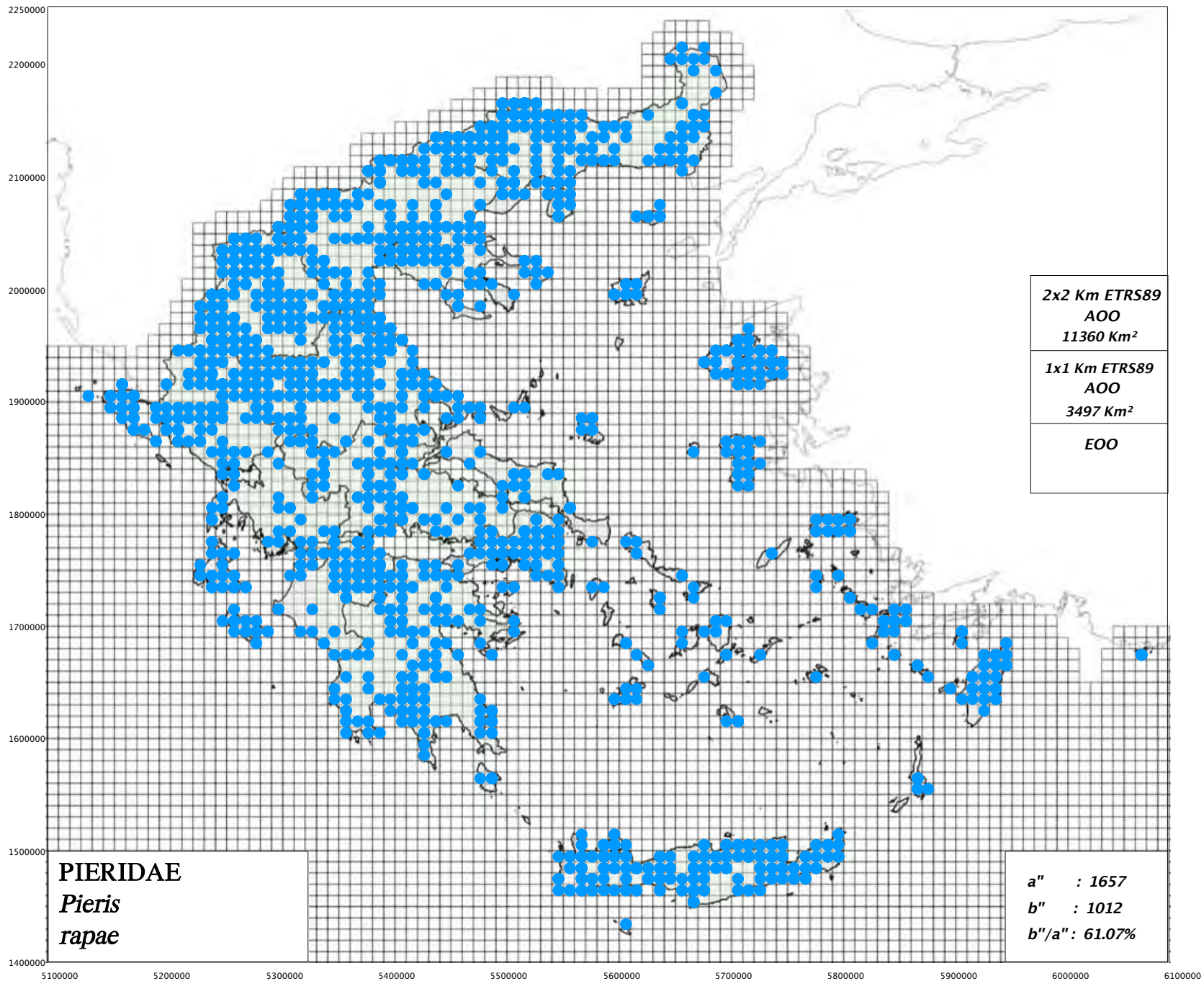


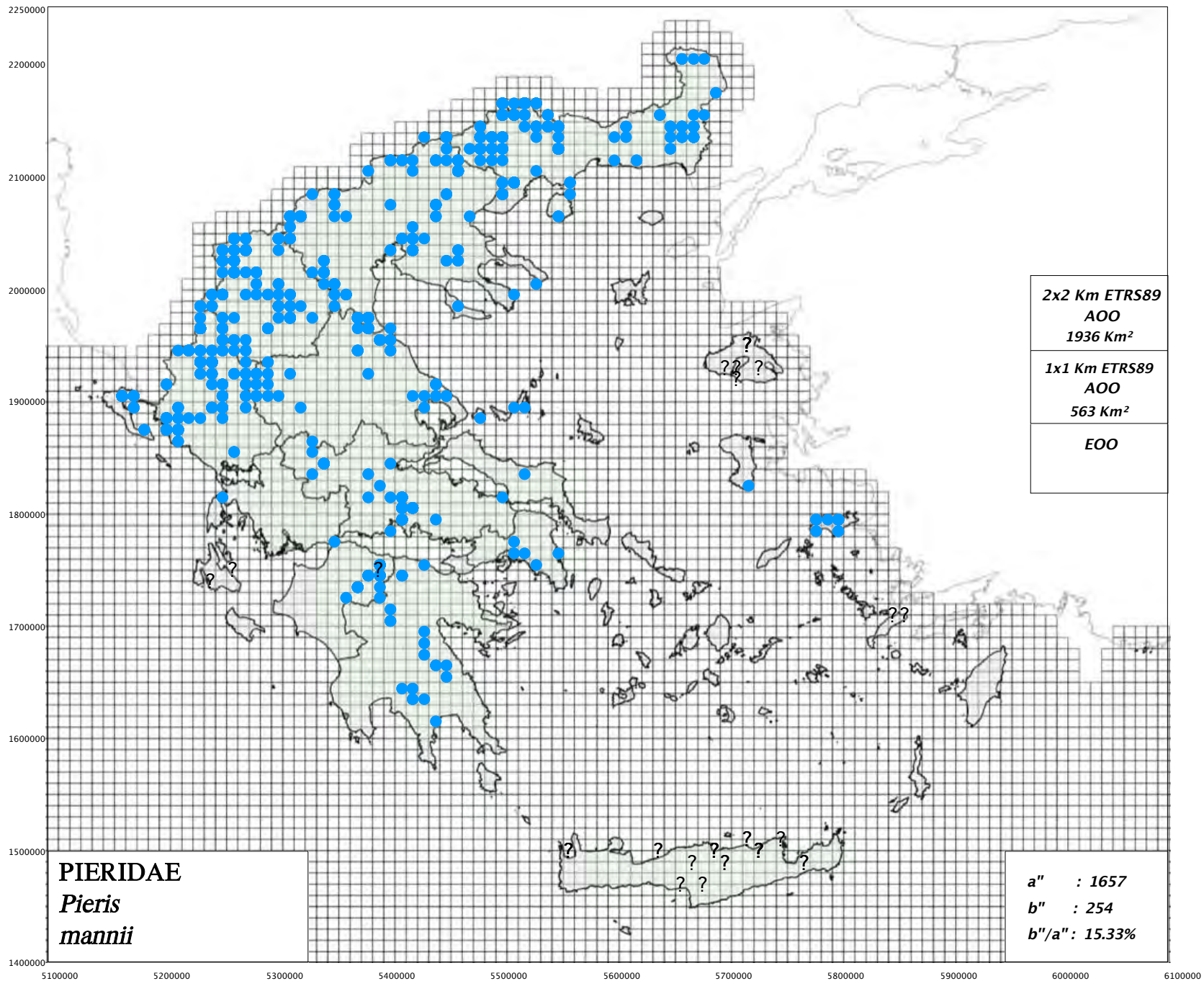




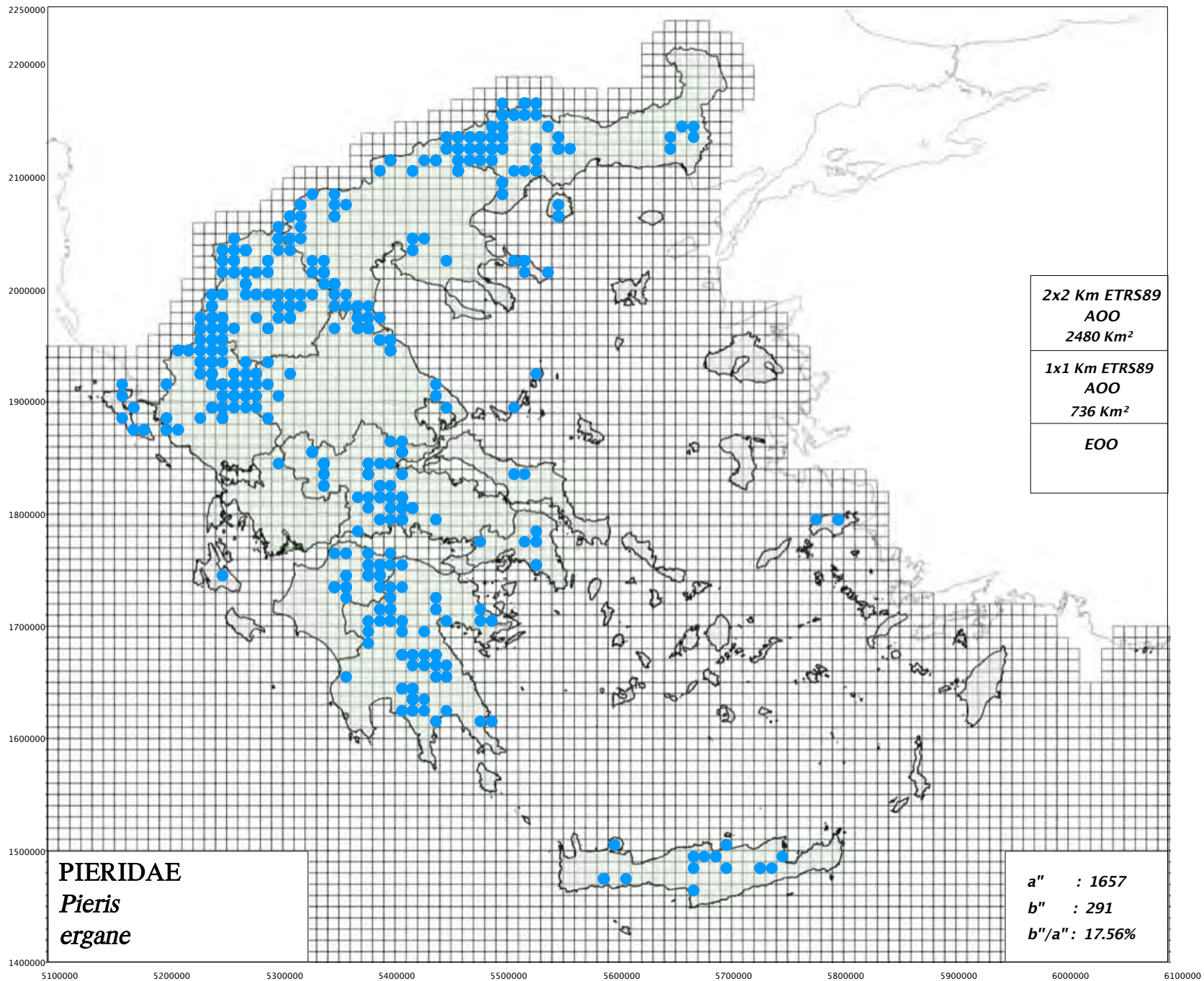




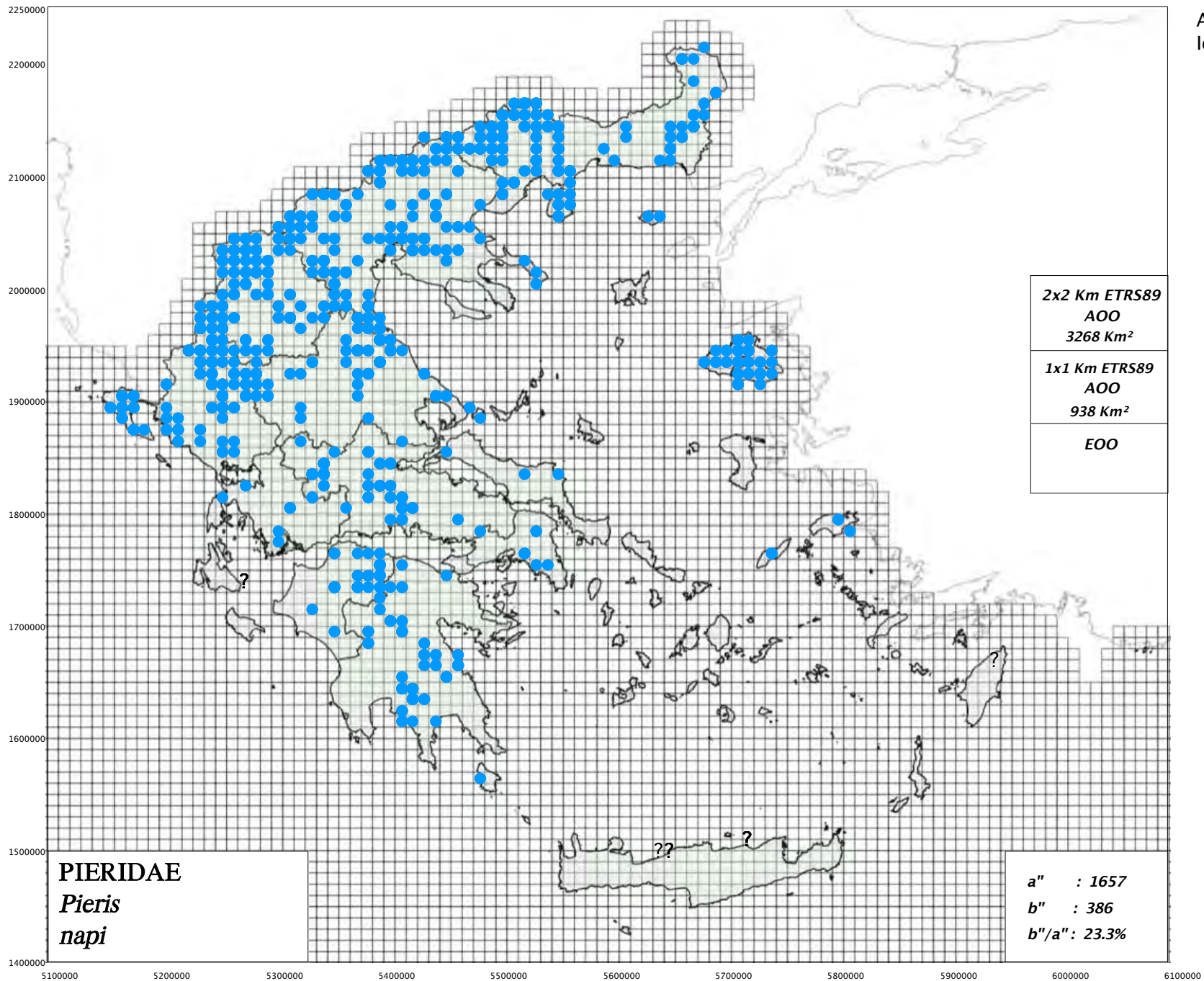






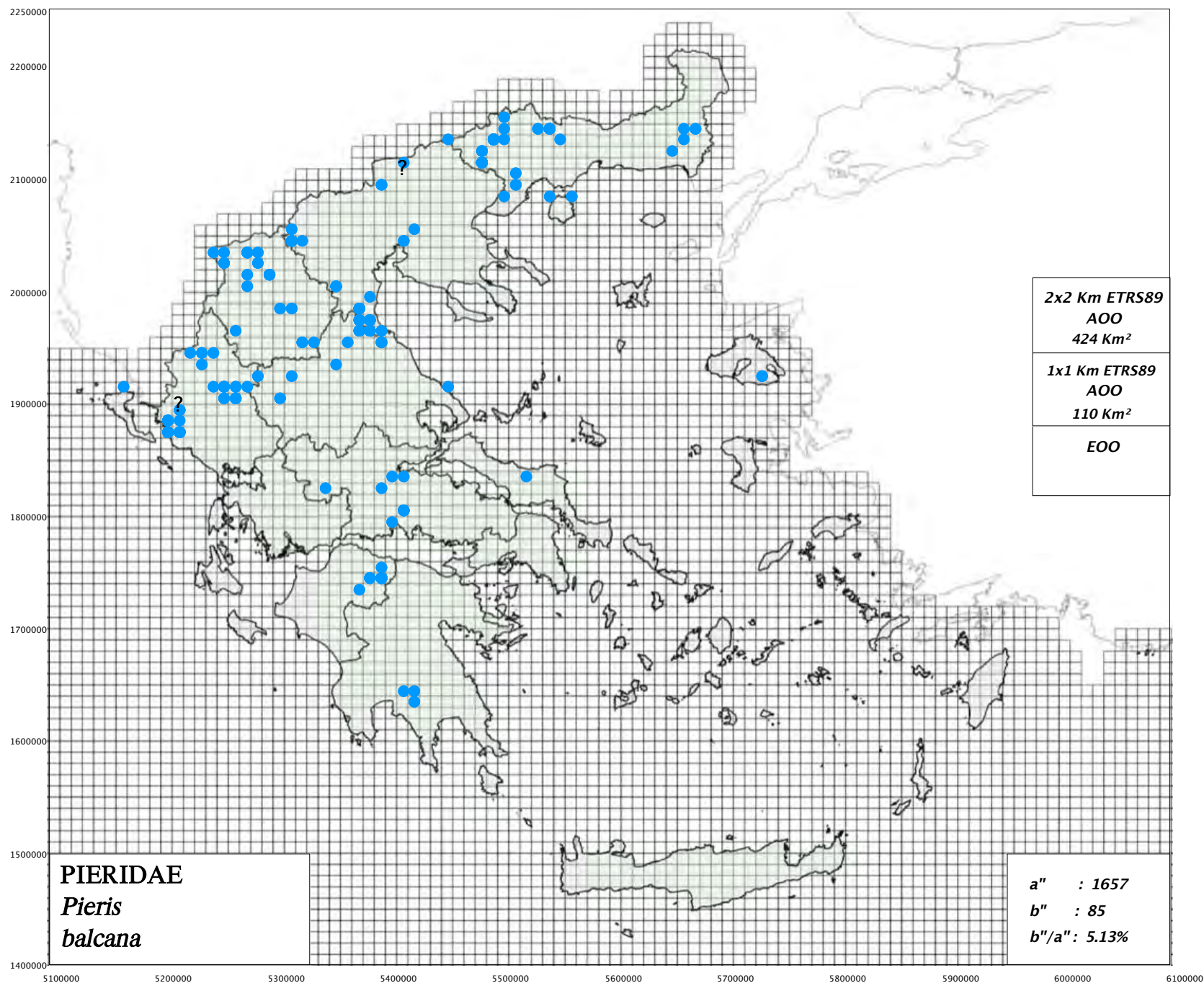


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Identification Uncertain

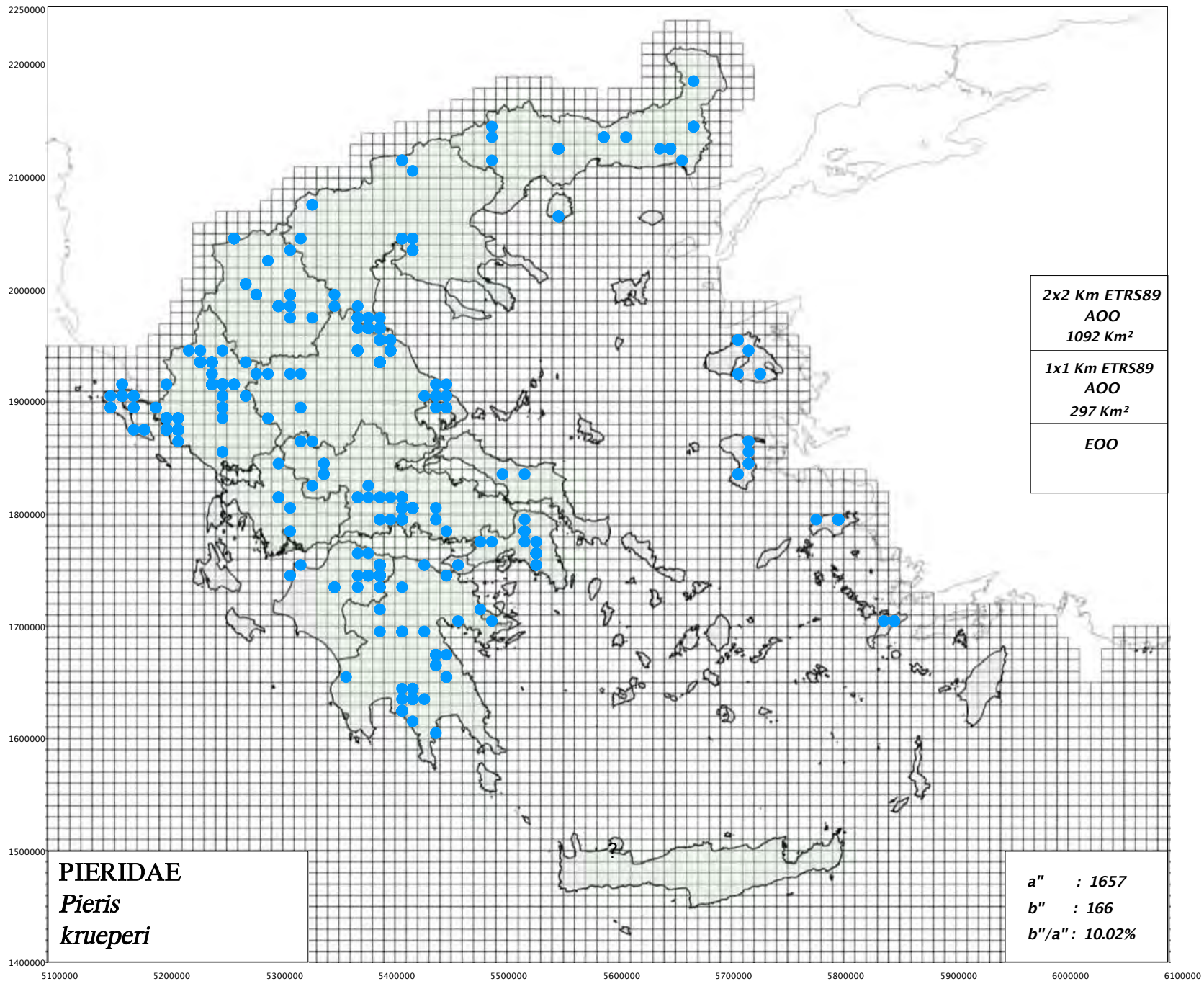


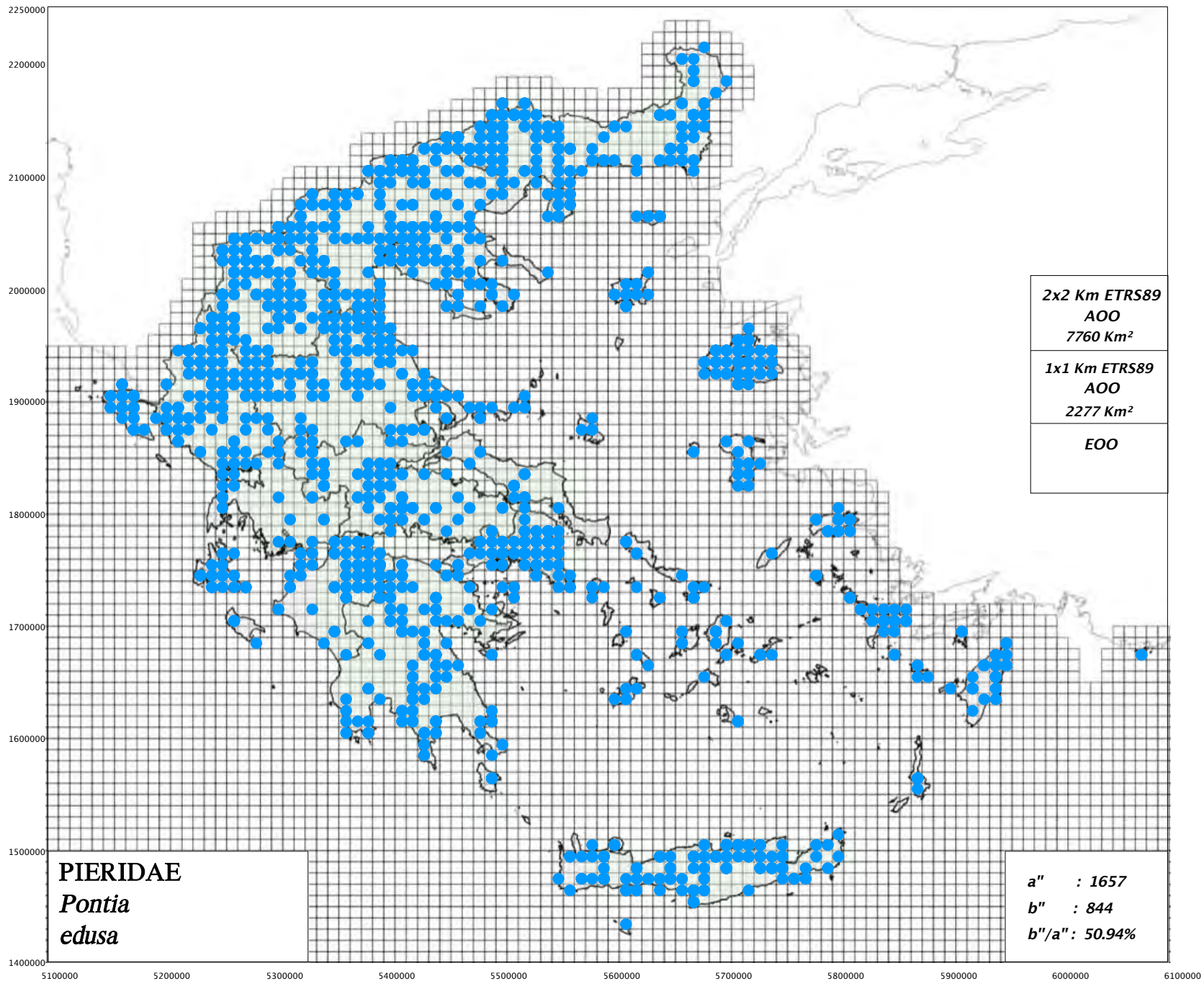


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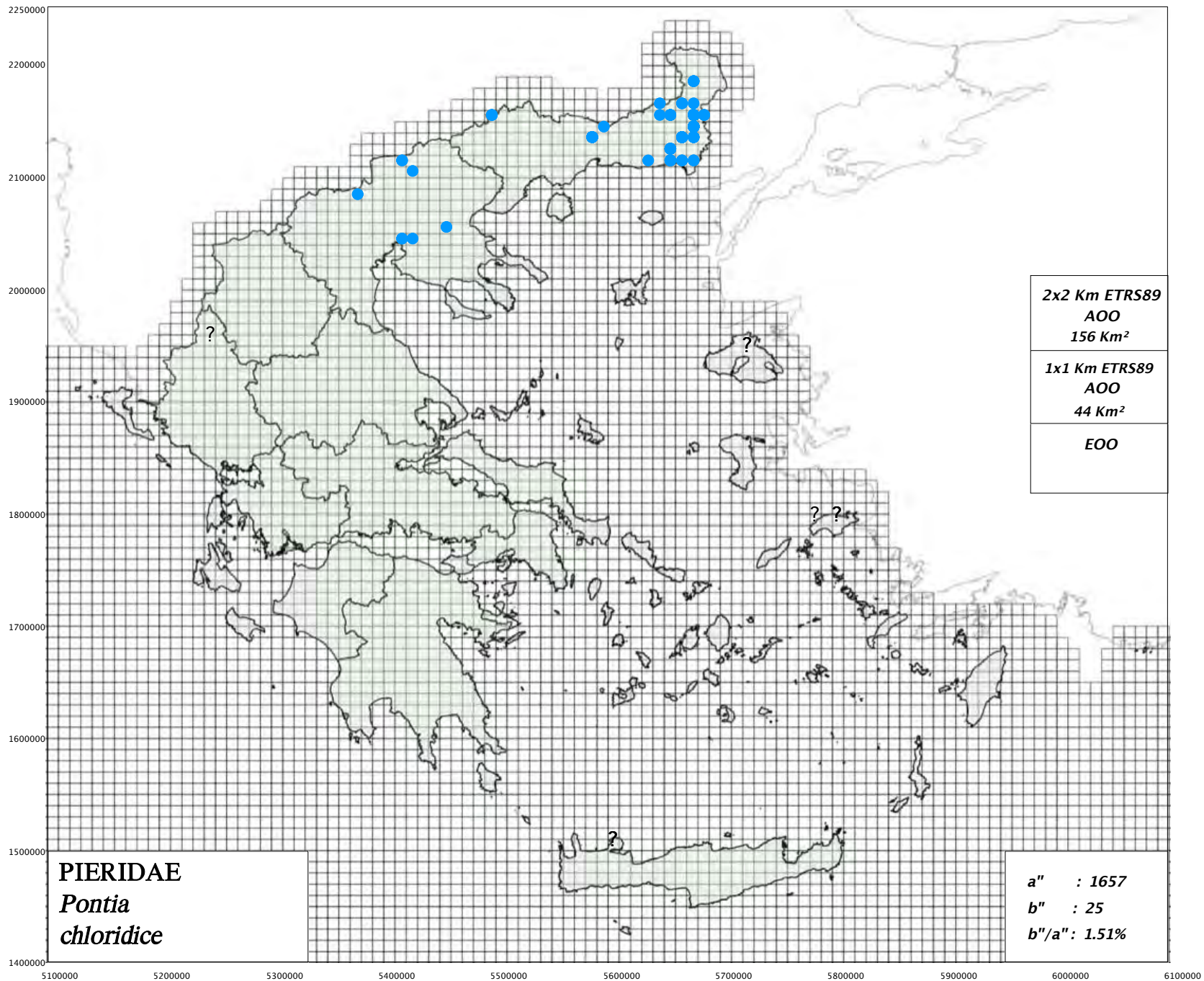


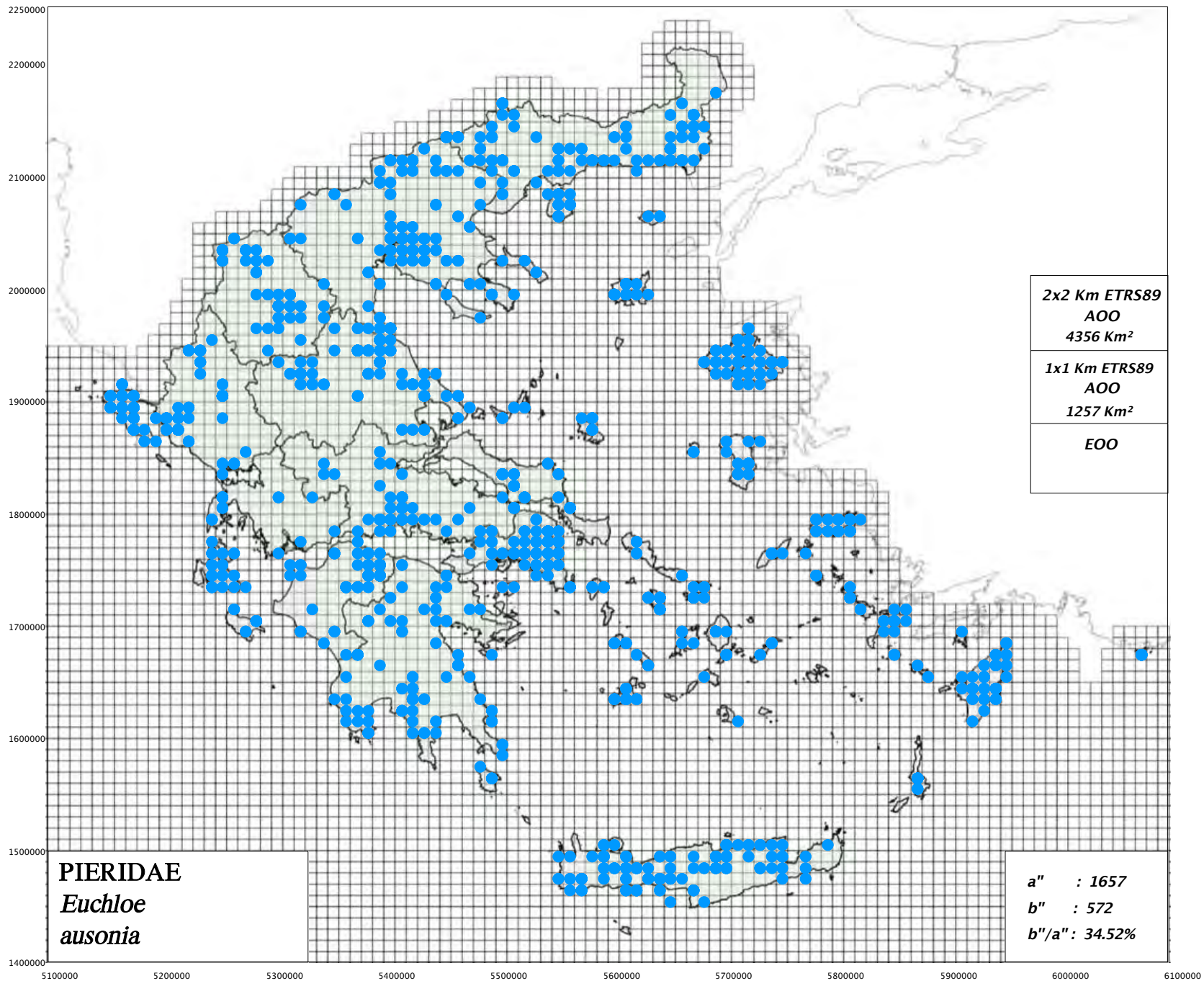




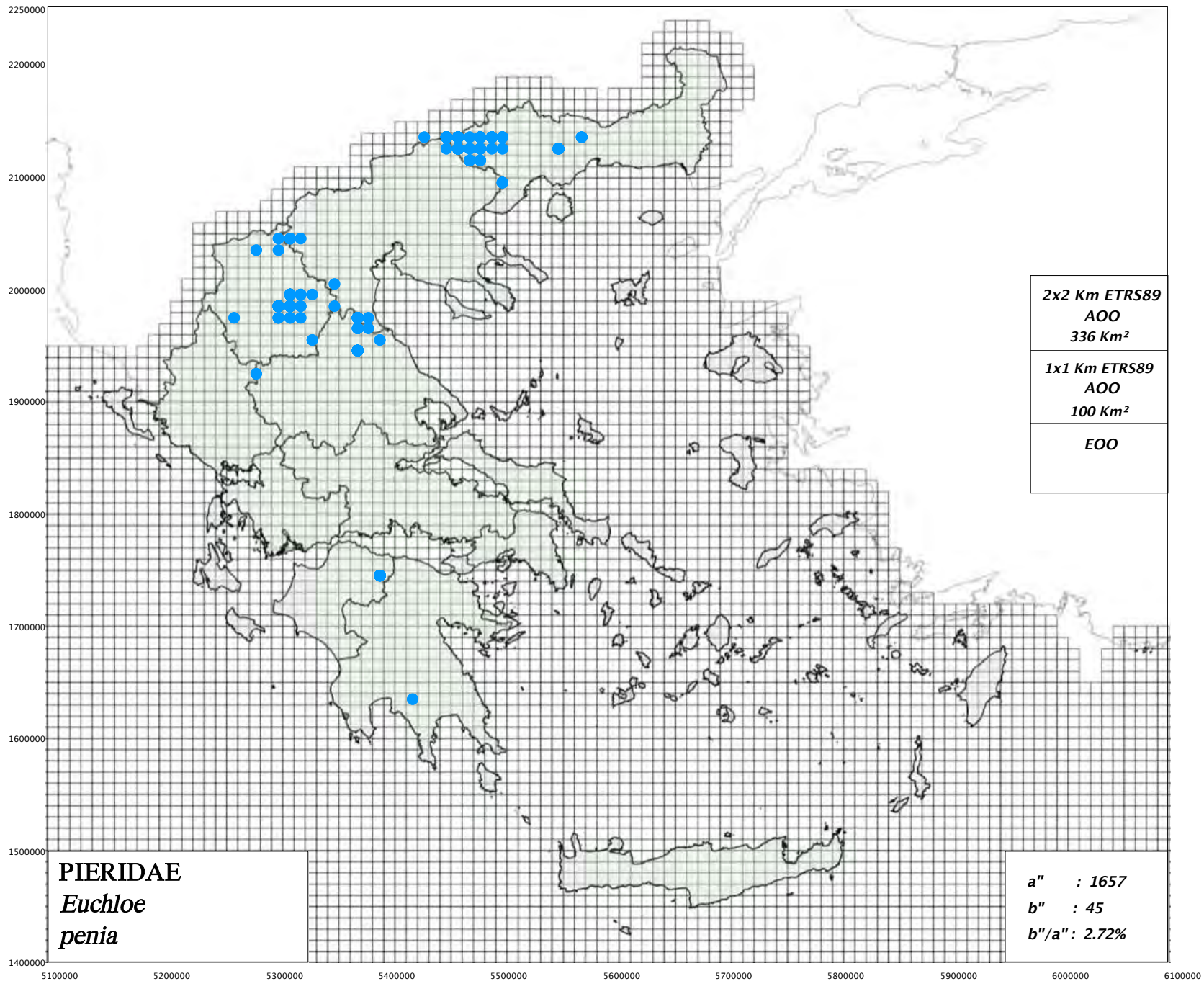




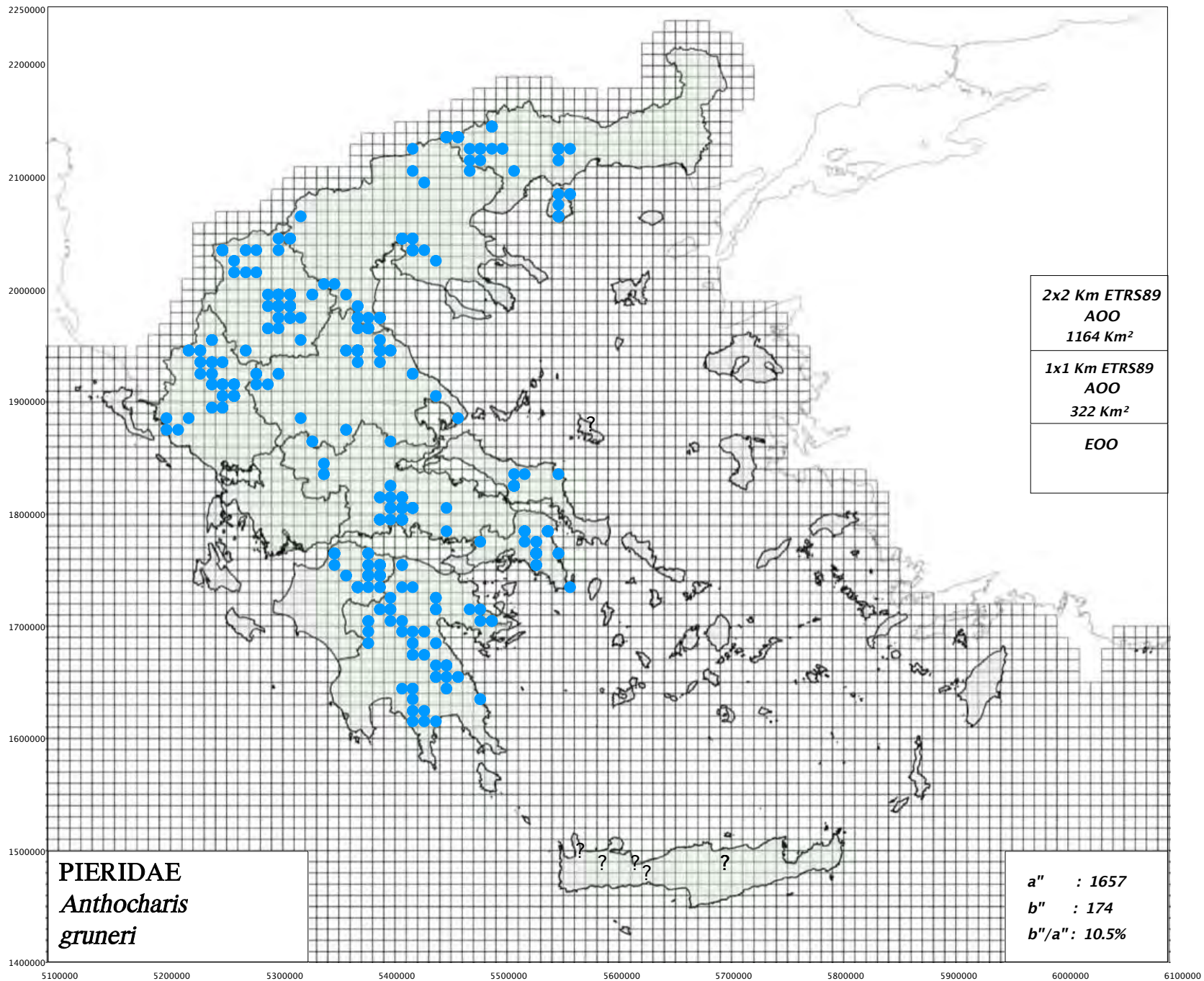


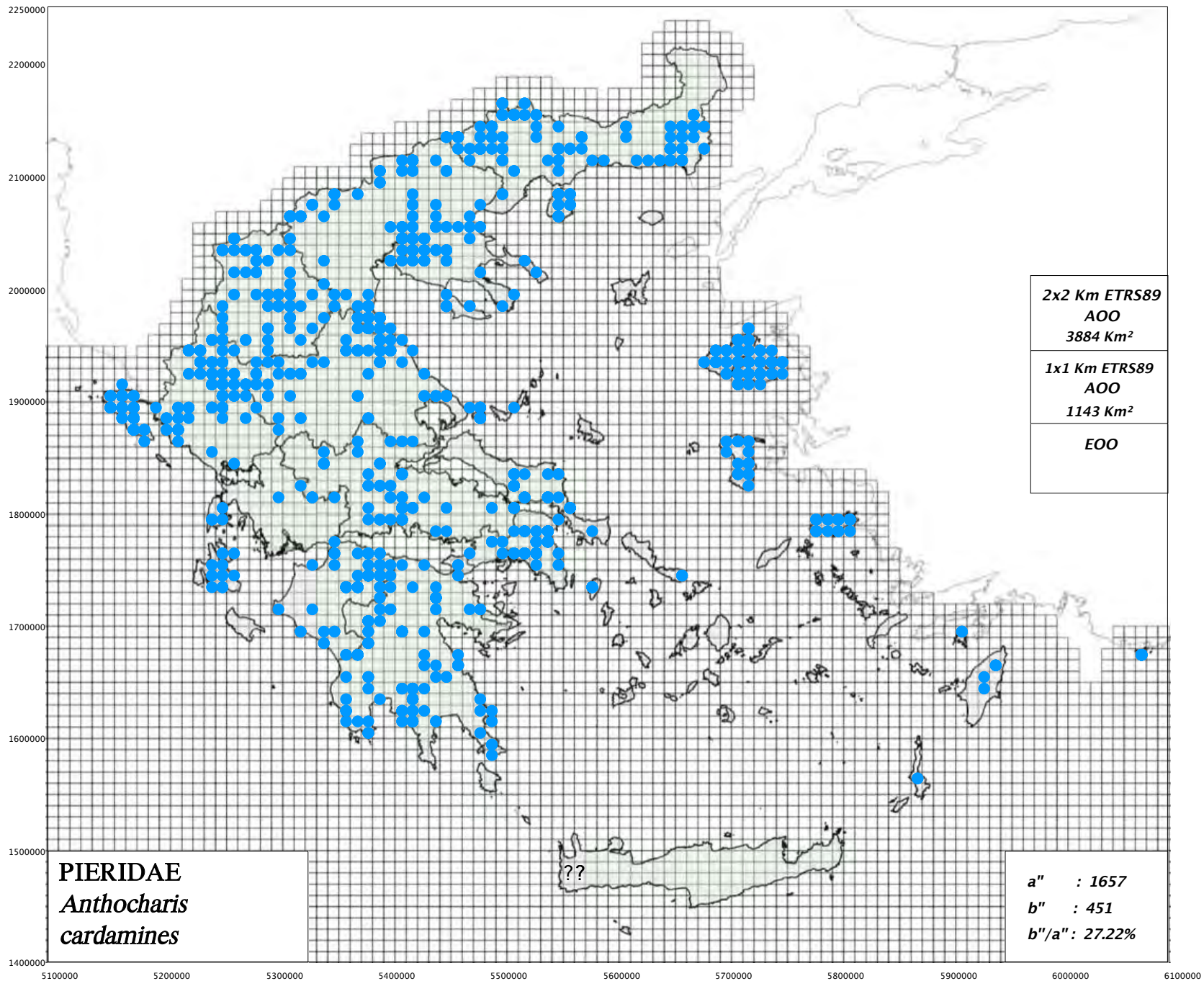




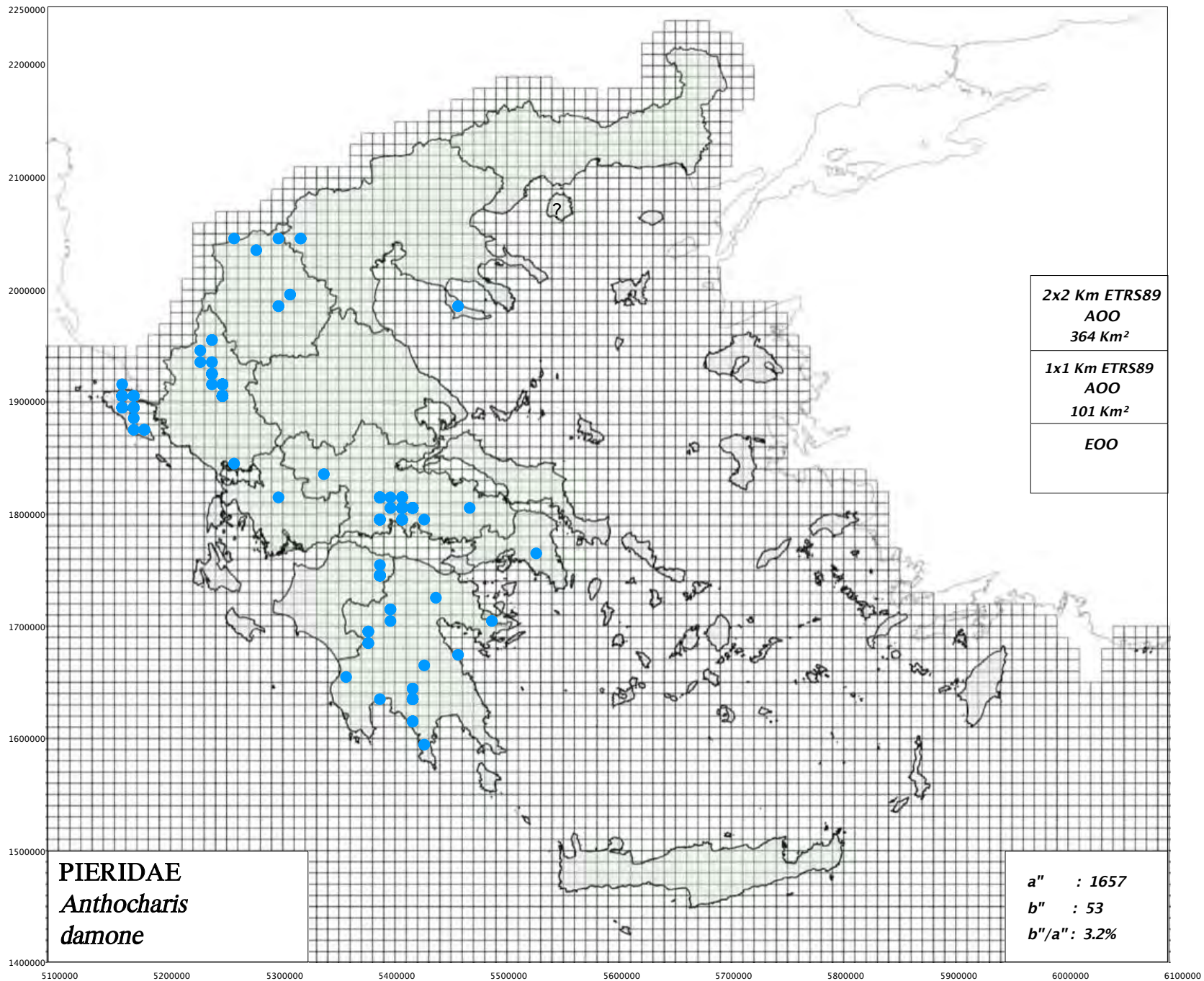


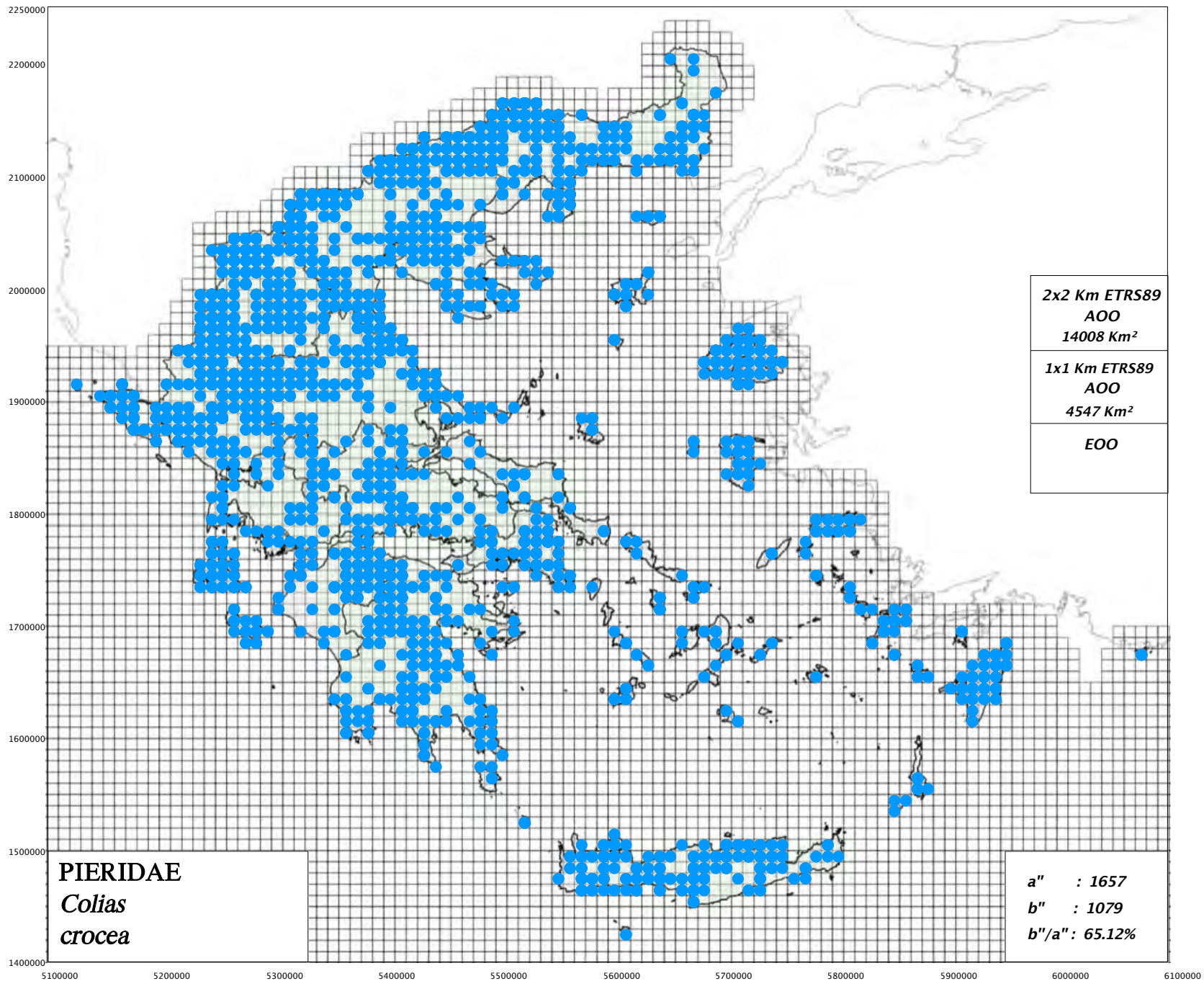




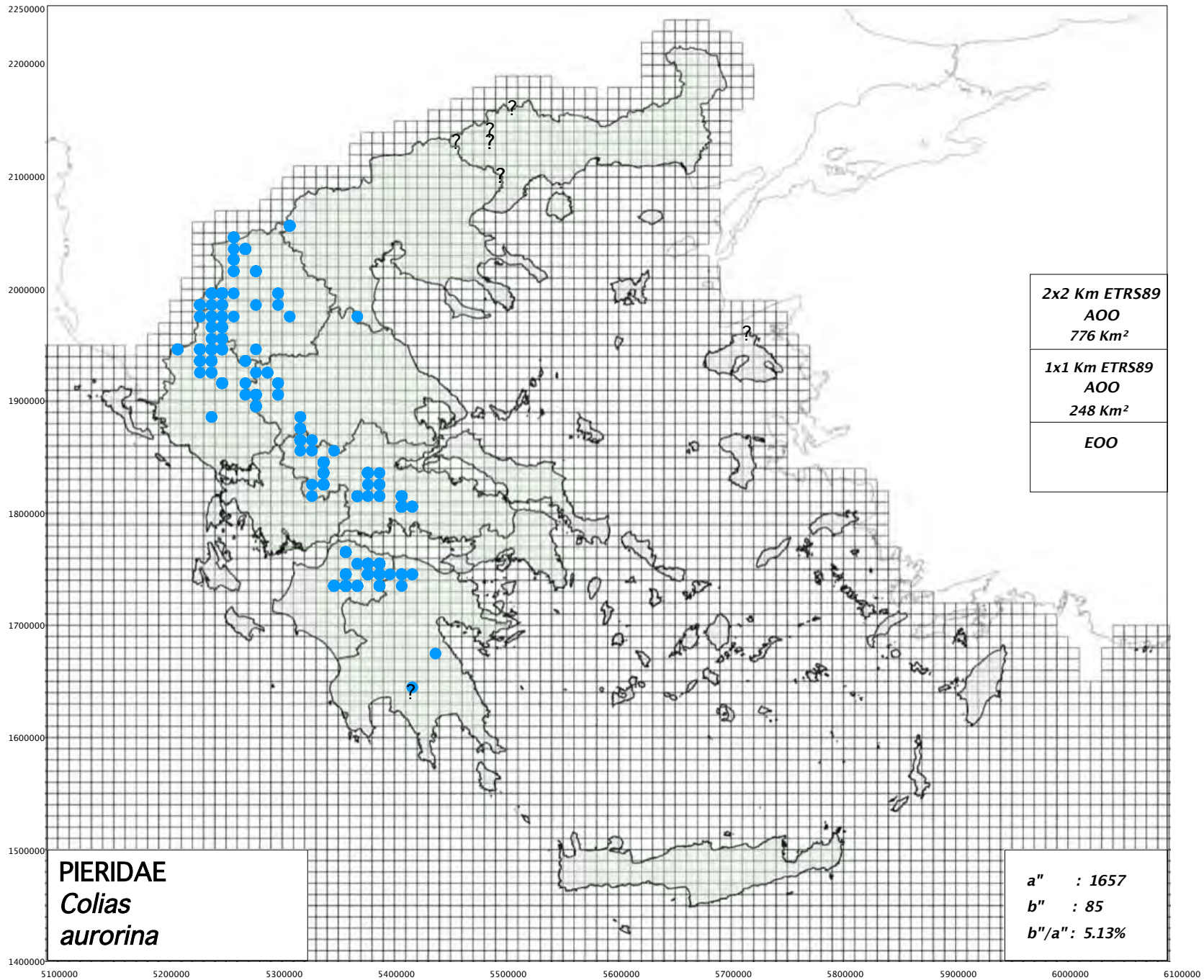


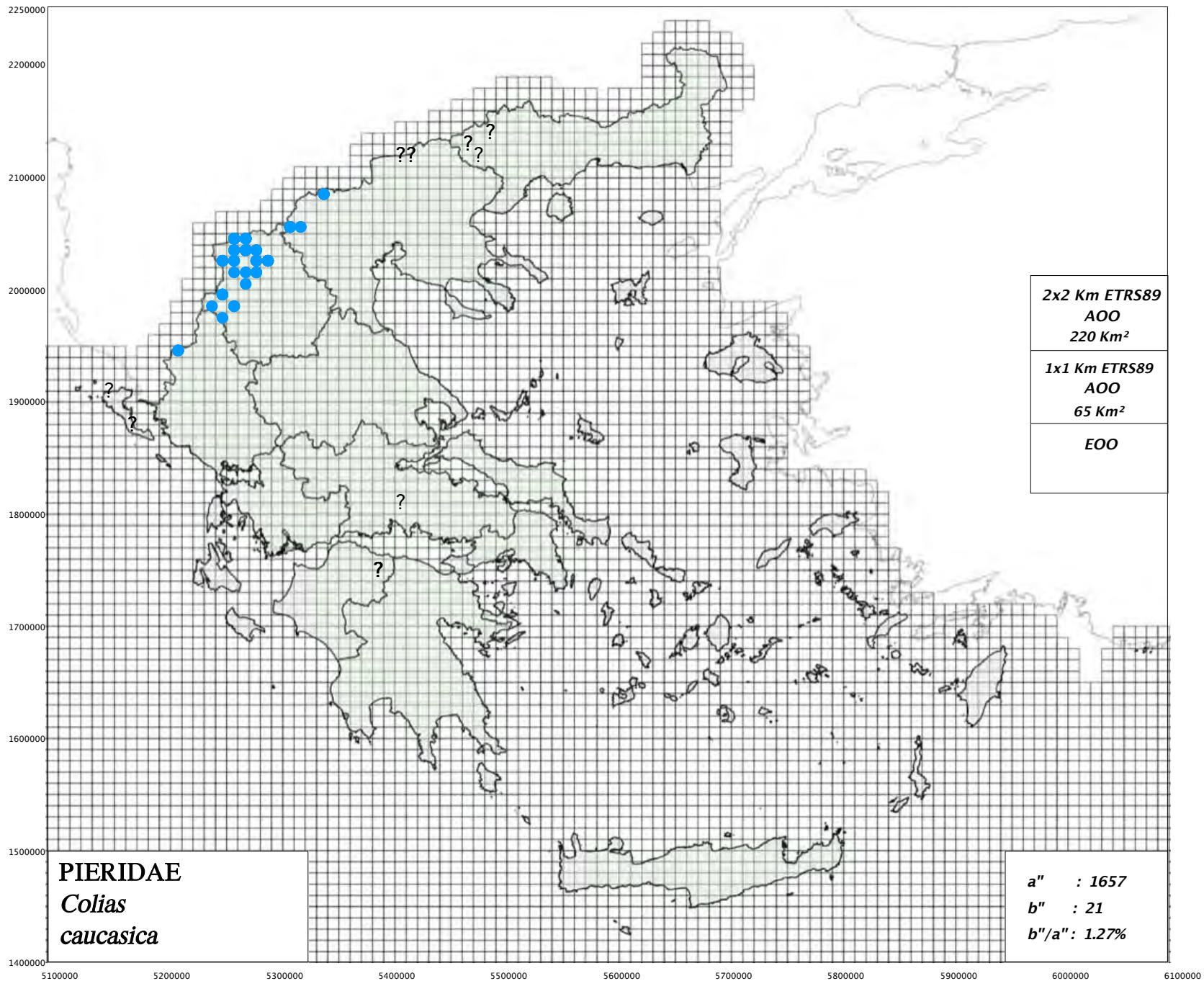




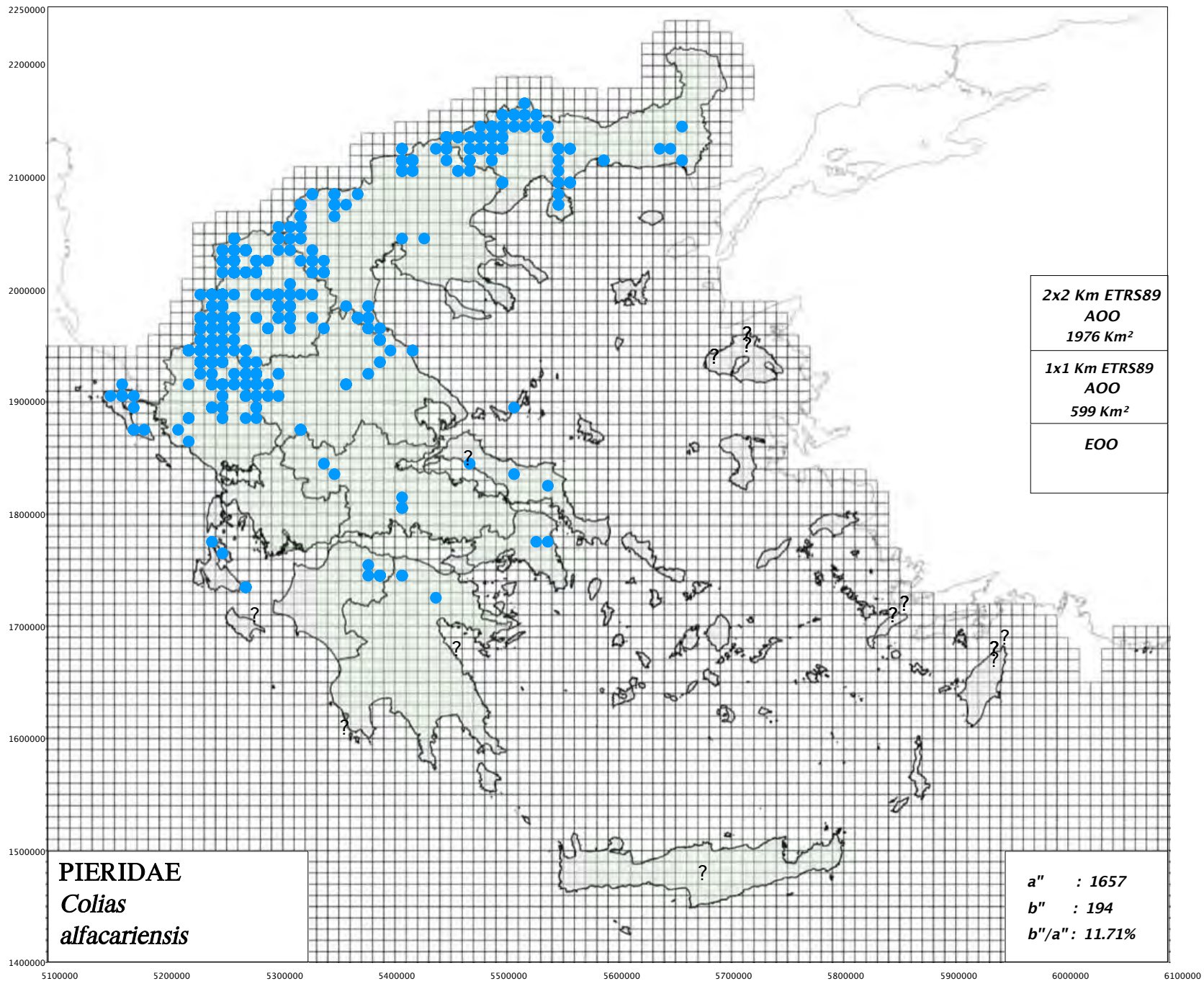




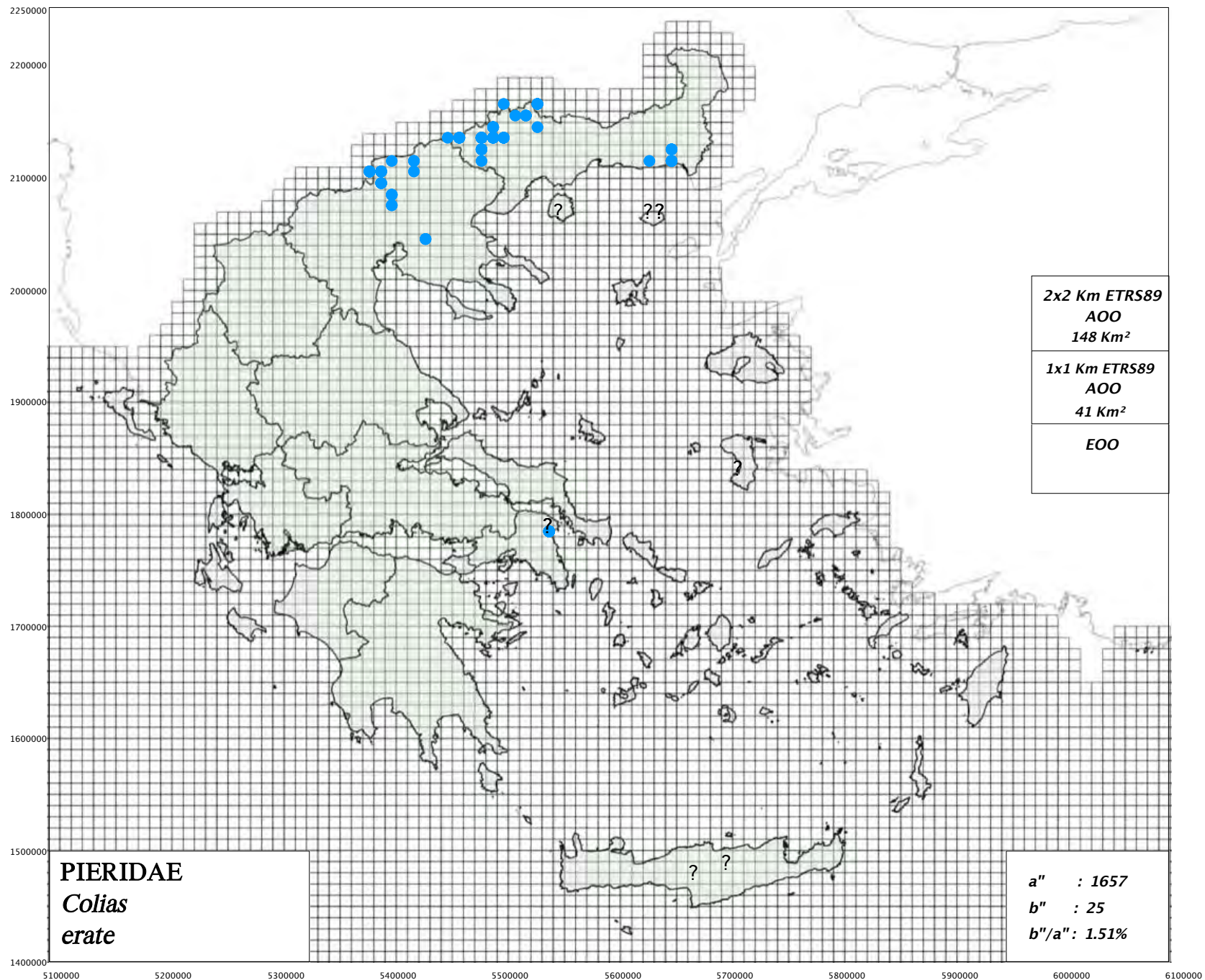




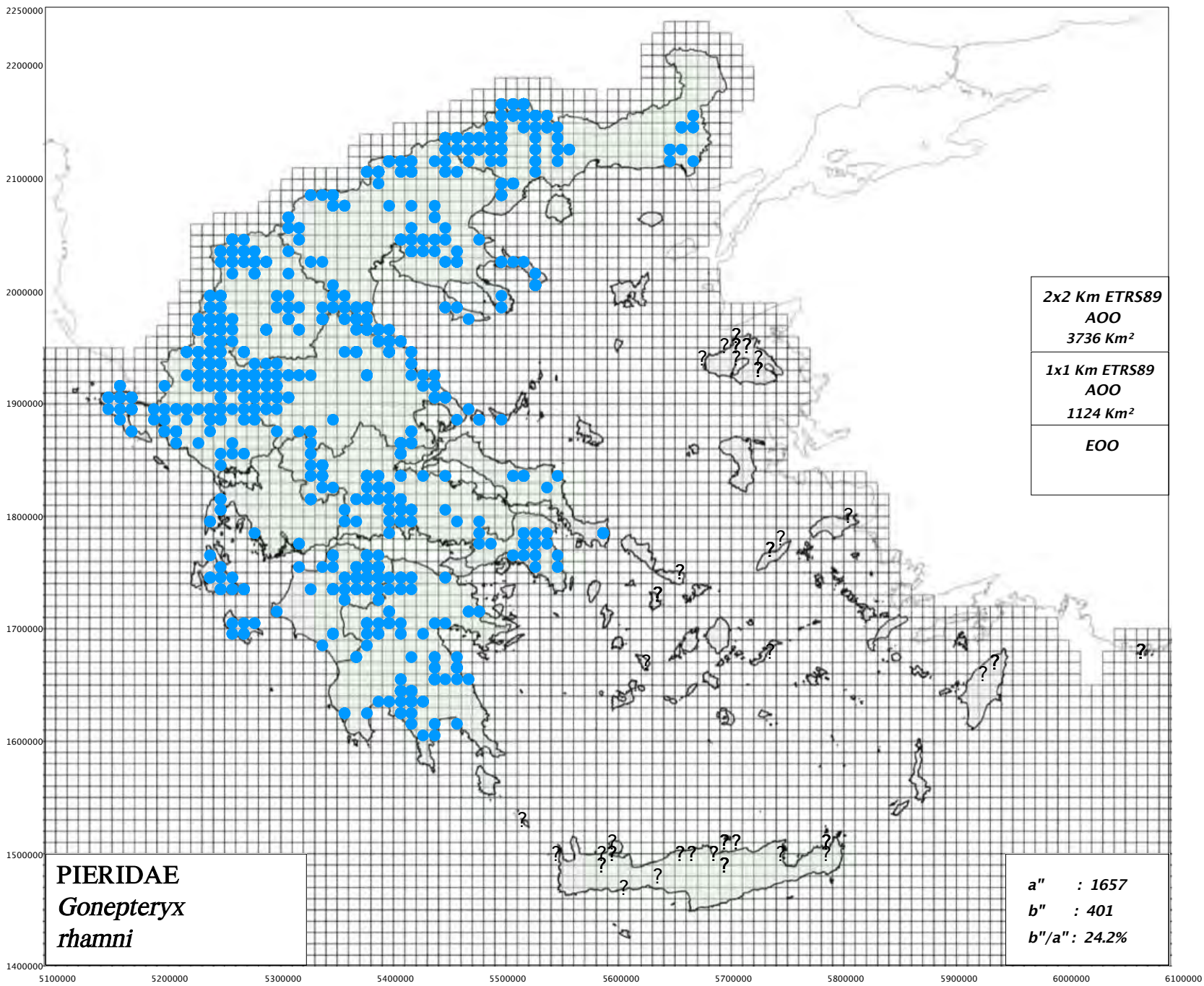




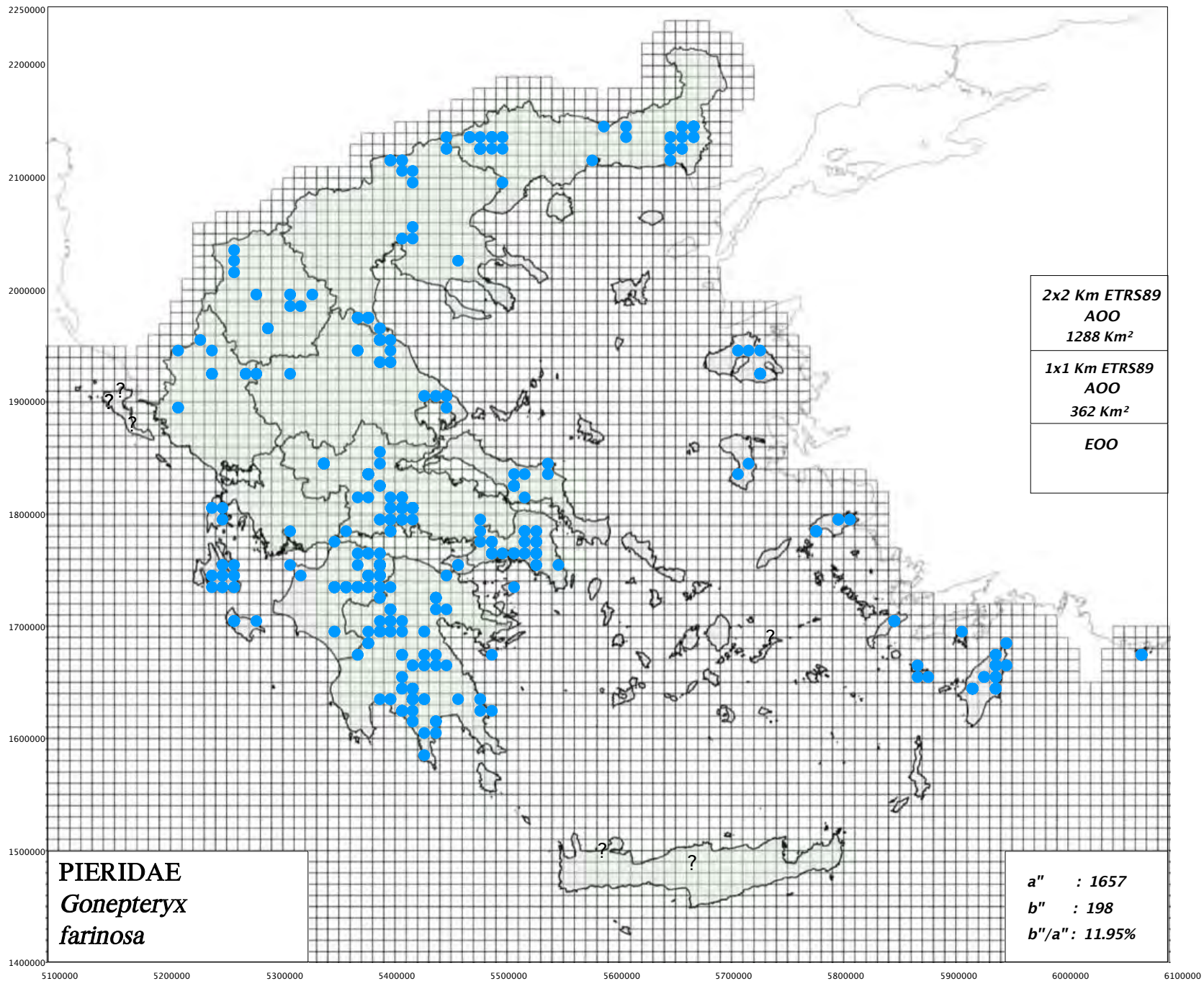
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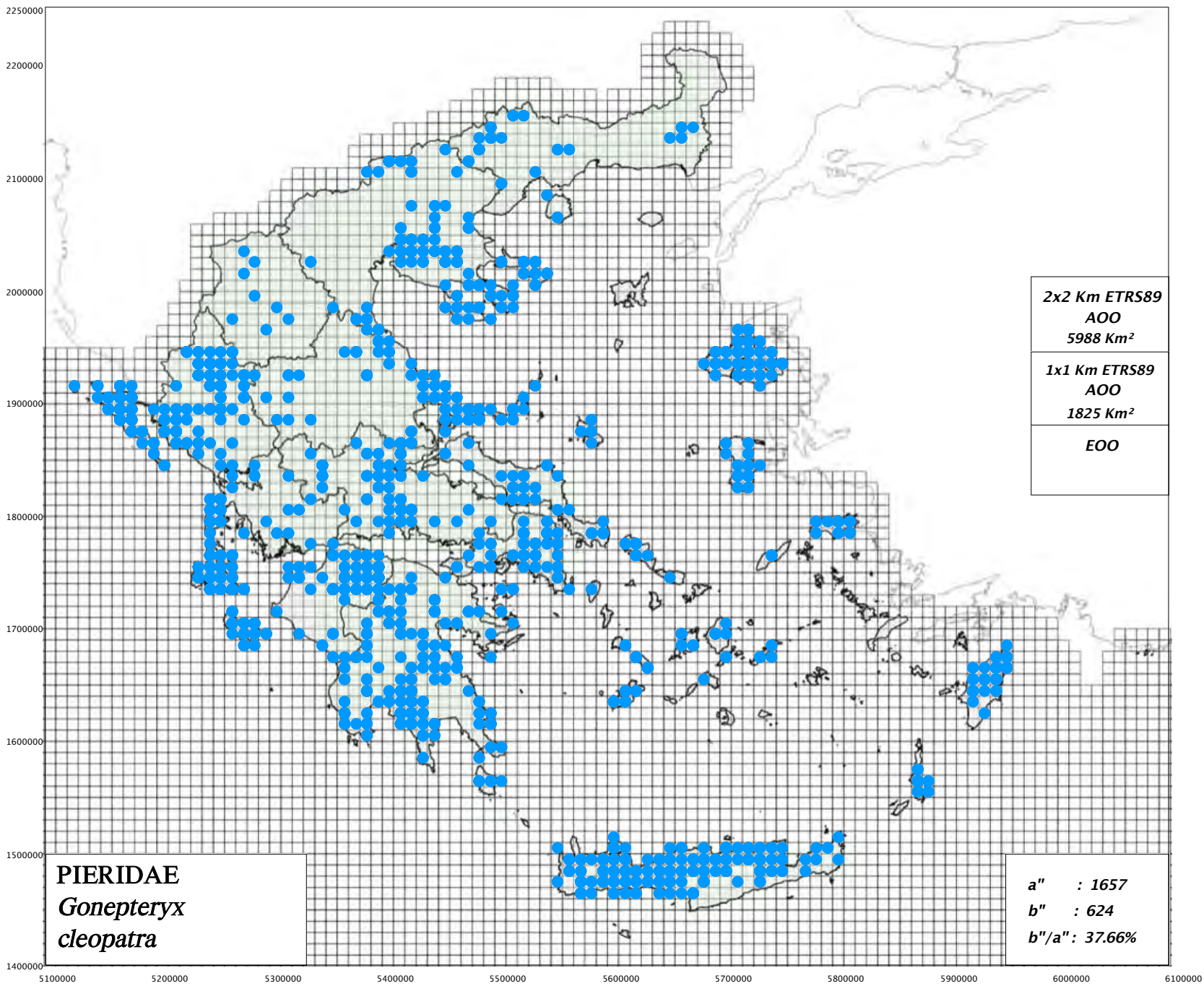




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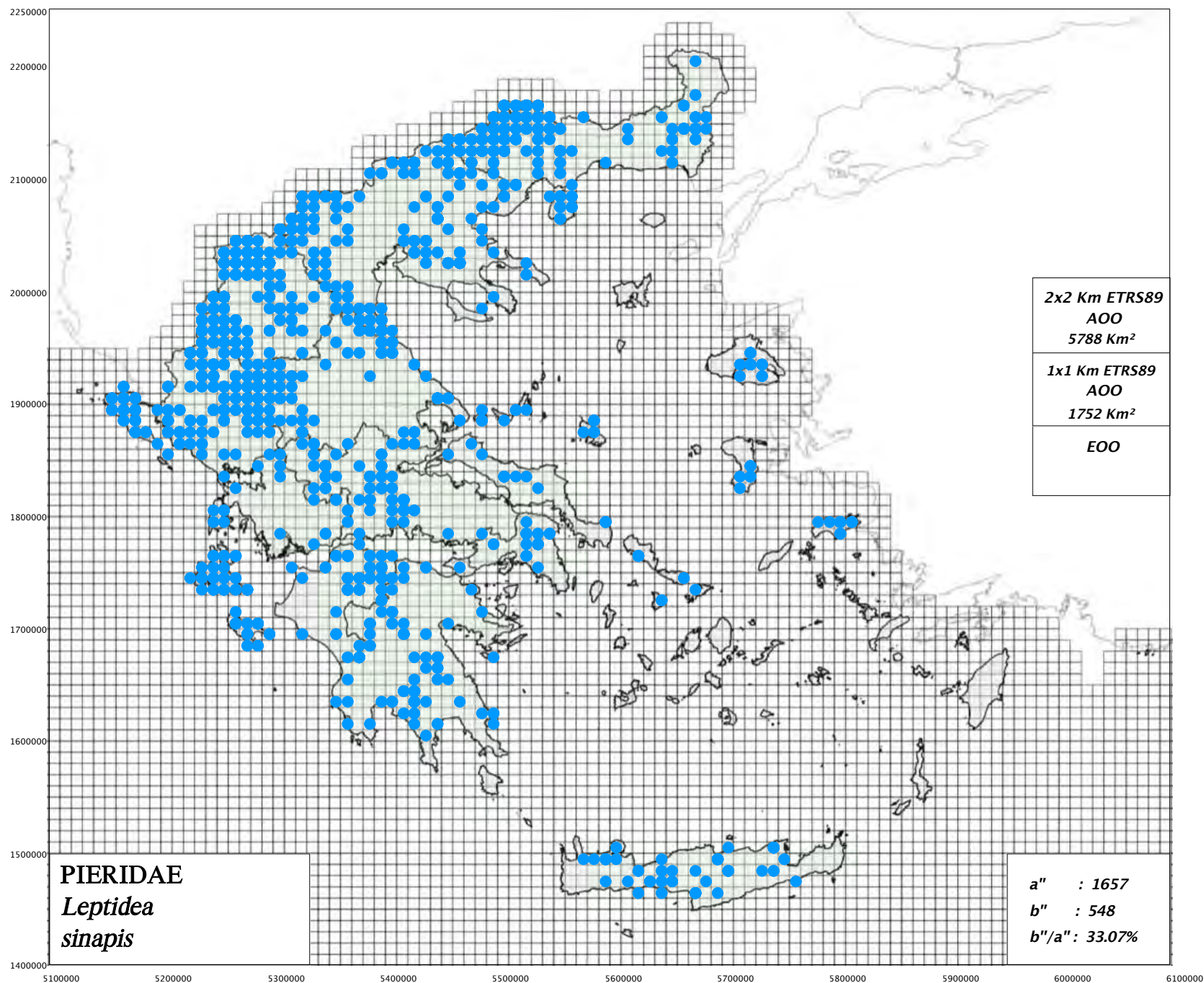






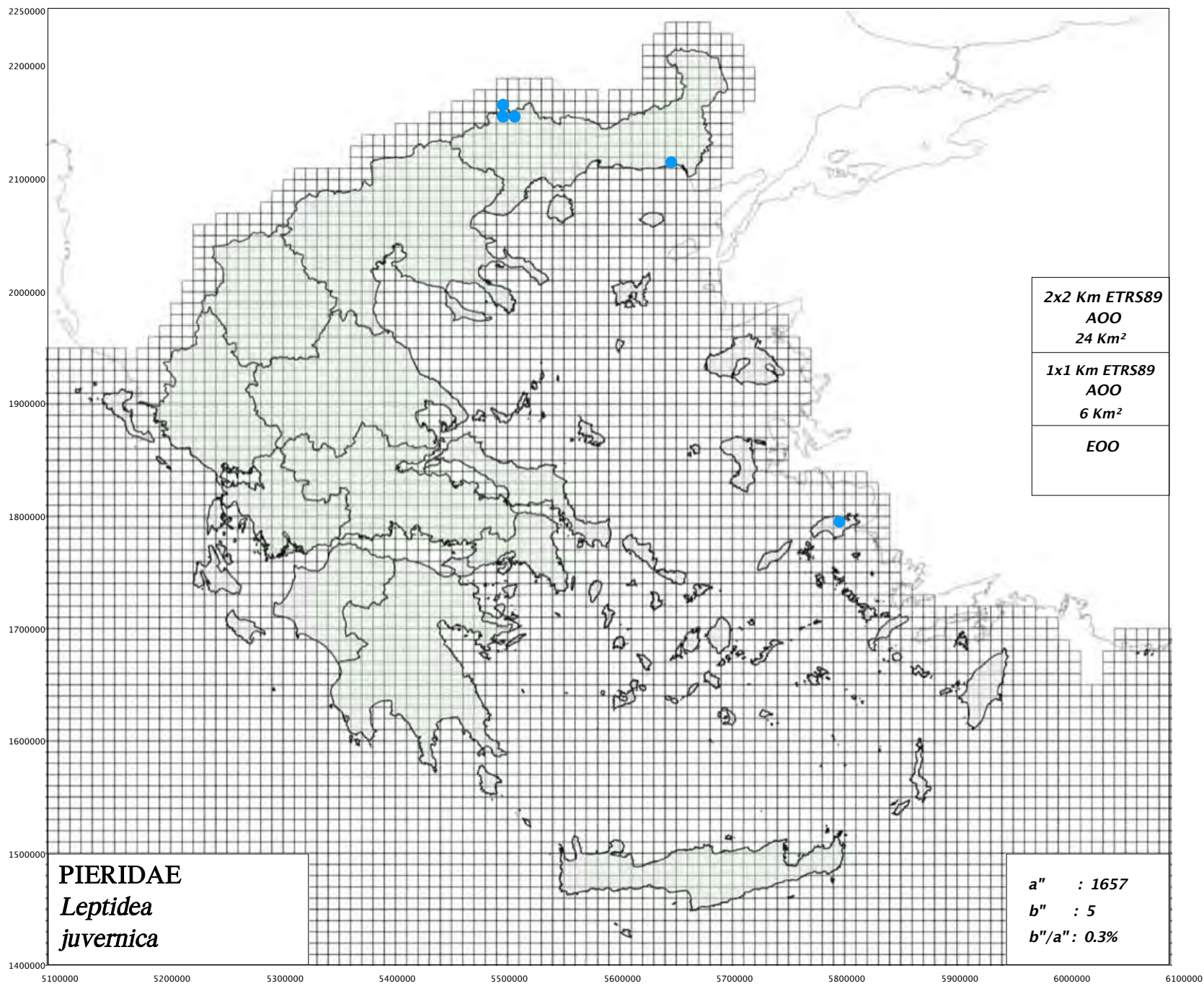
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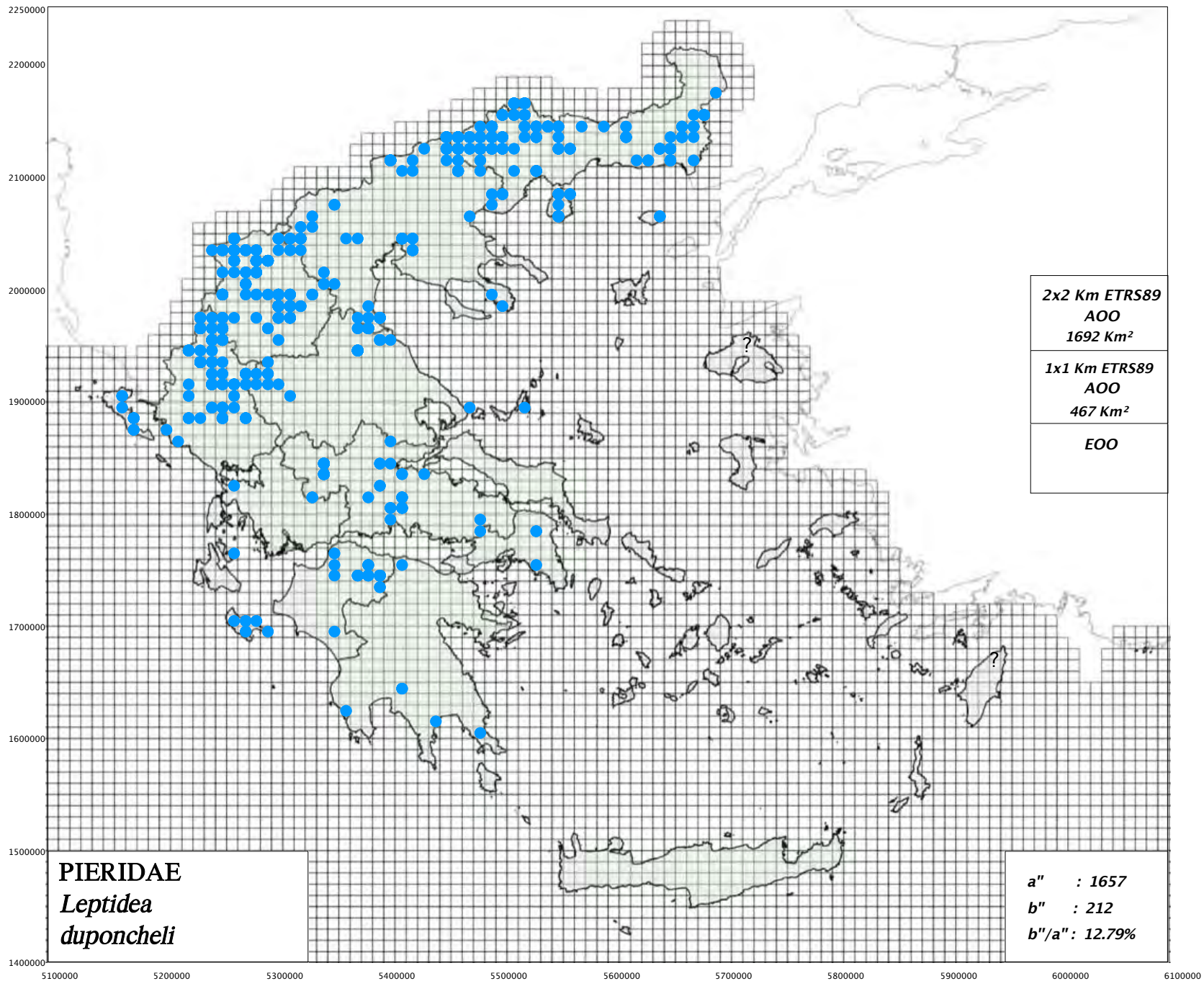




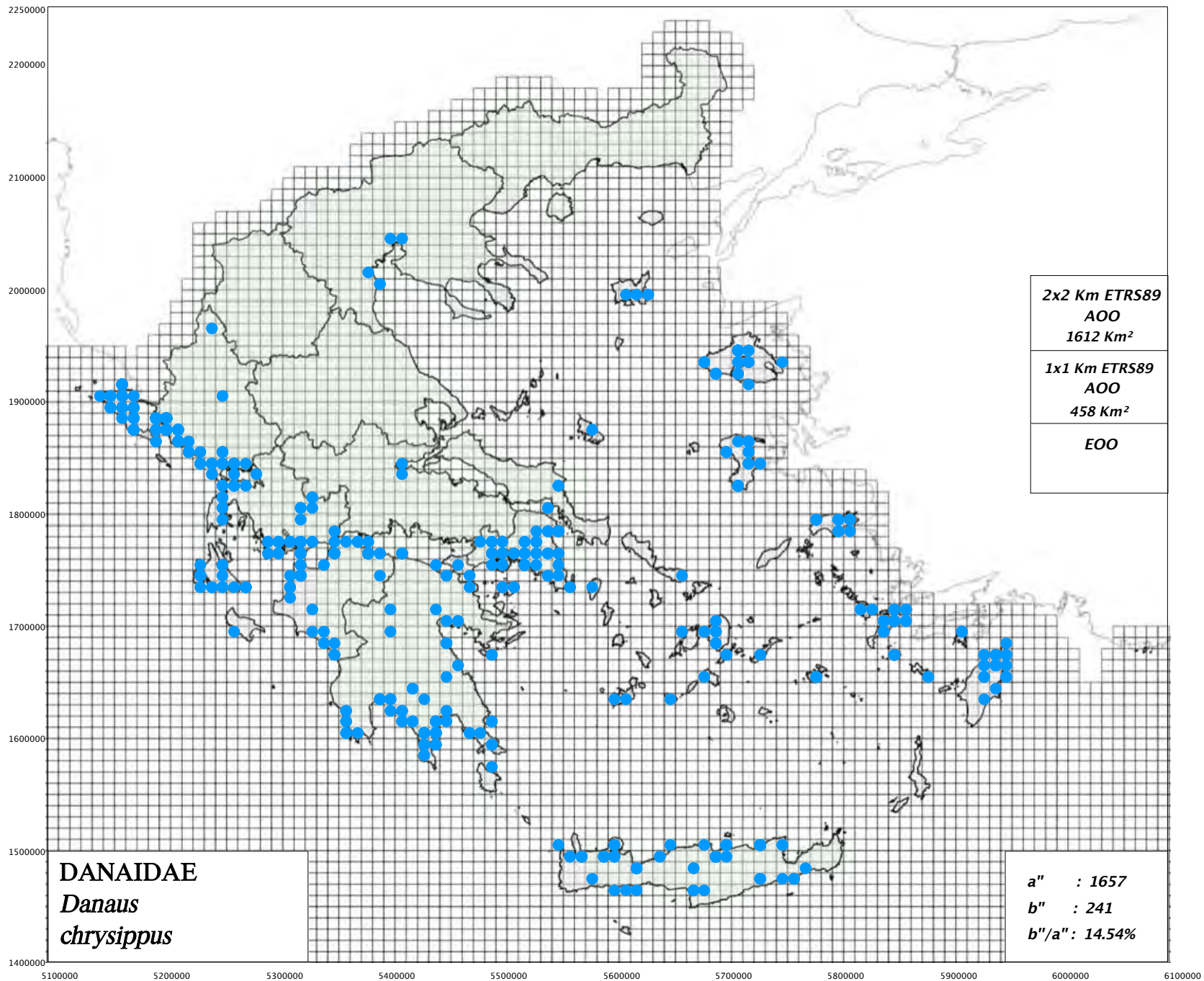
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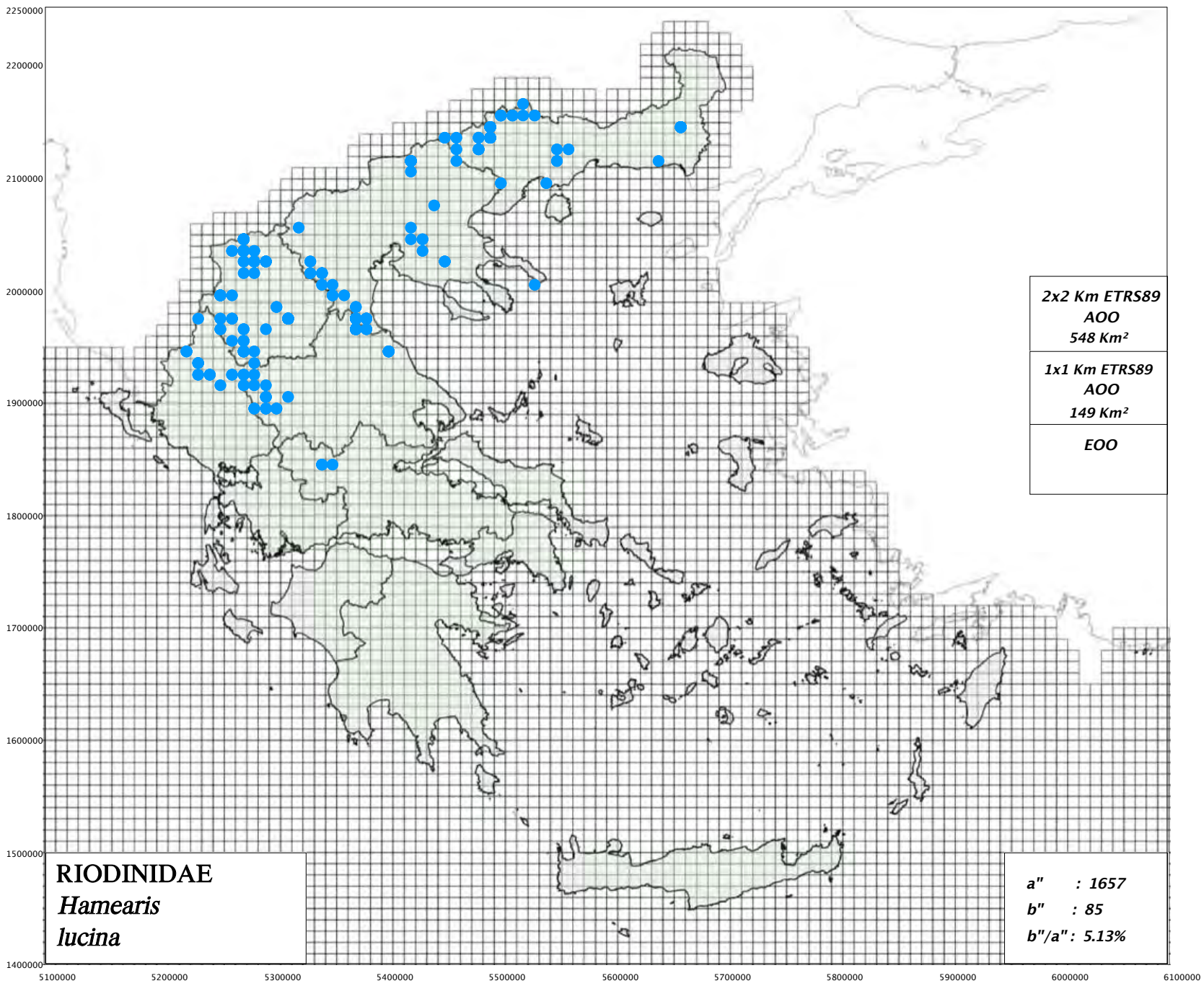


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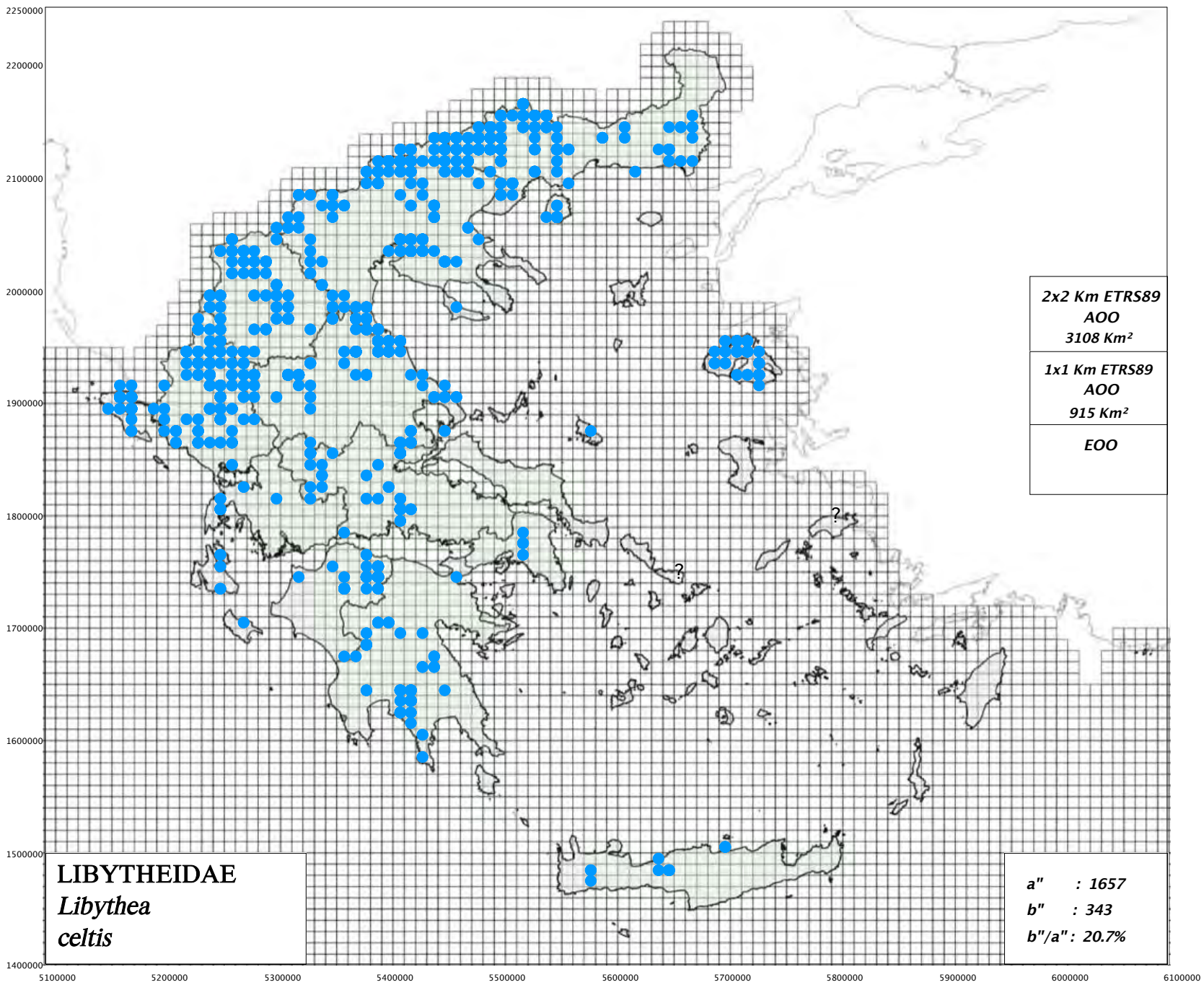


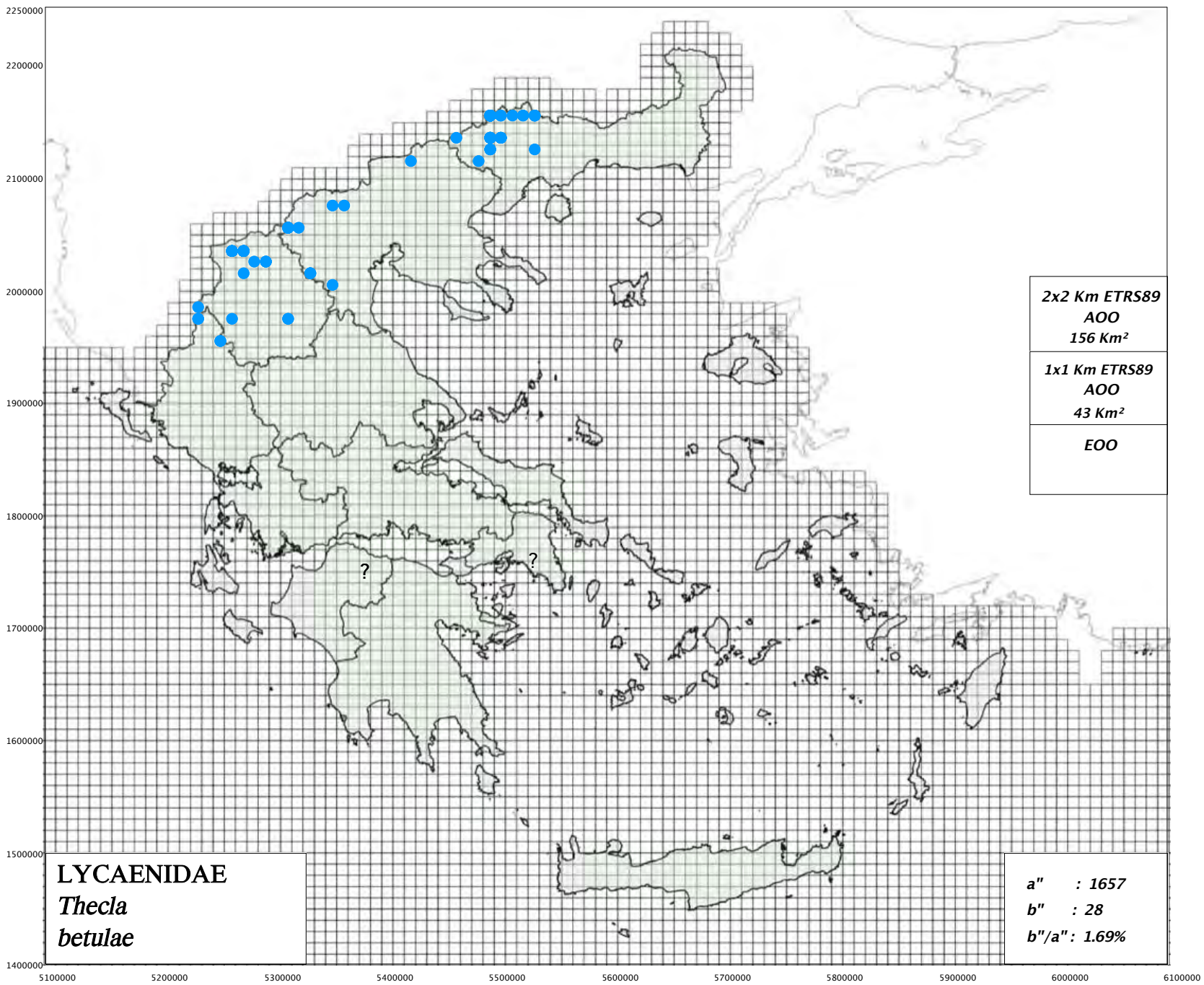




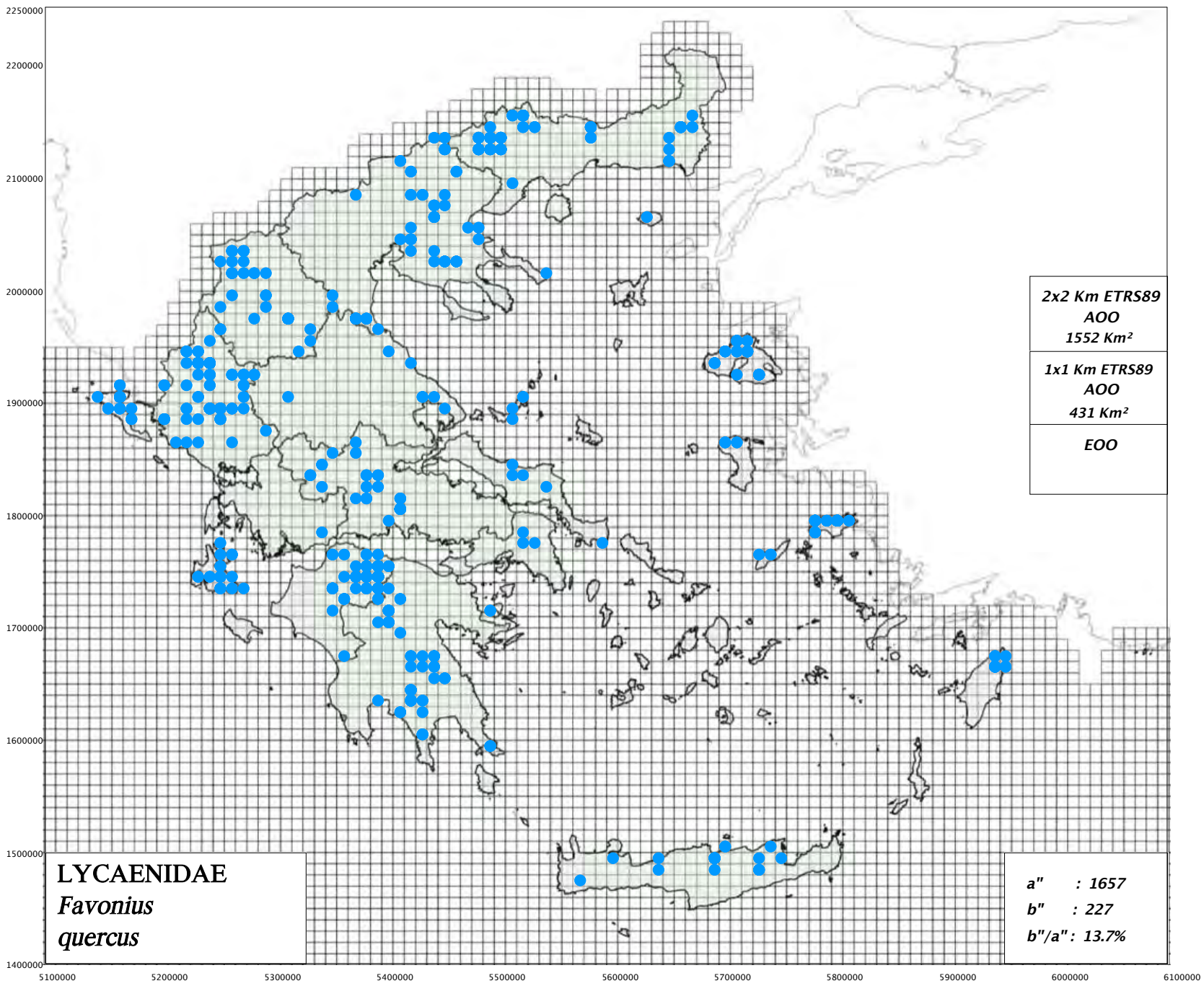


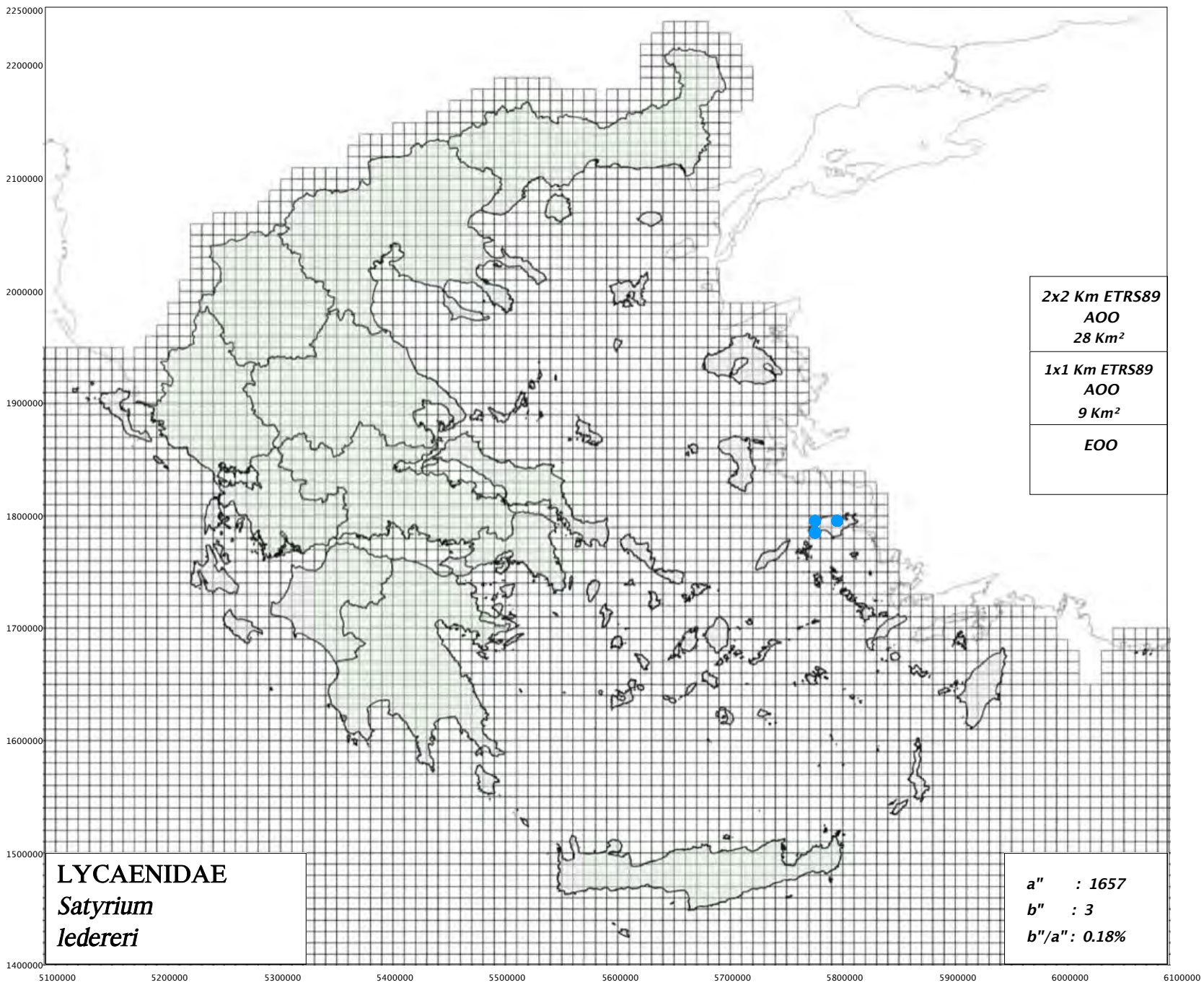




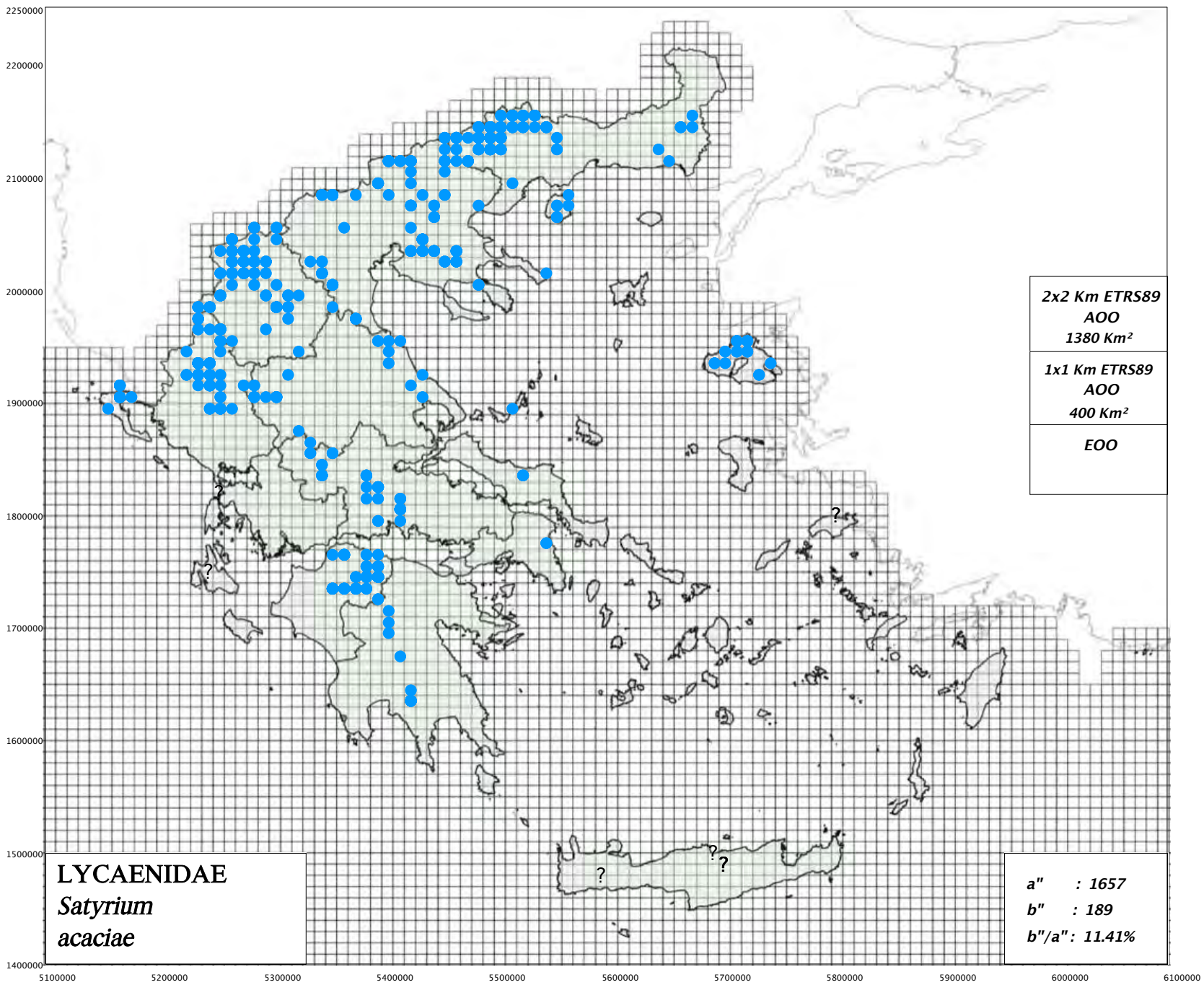


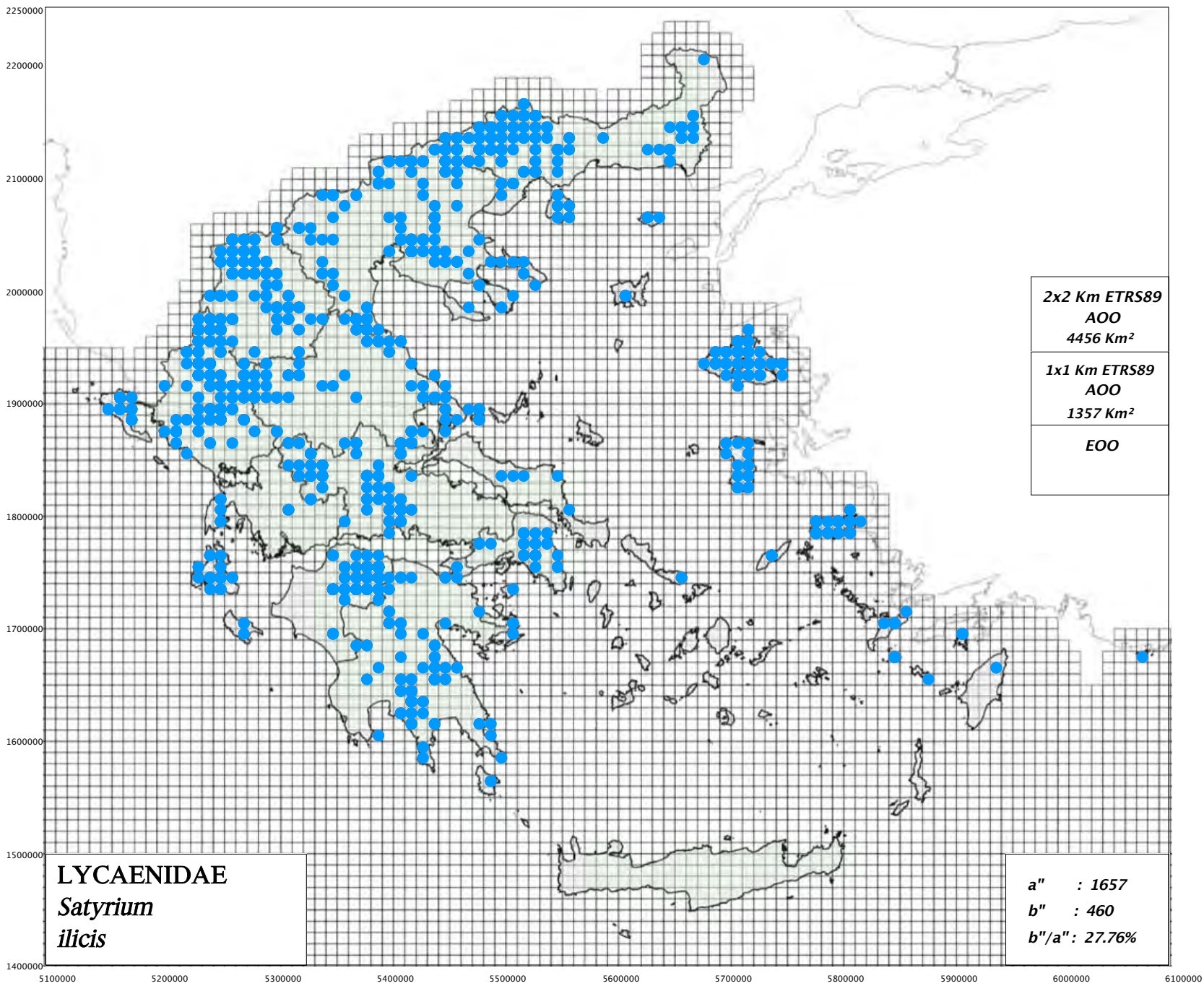




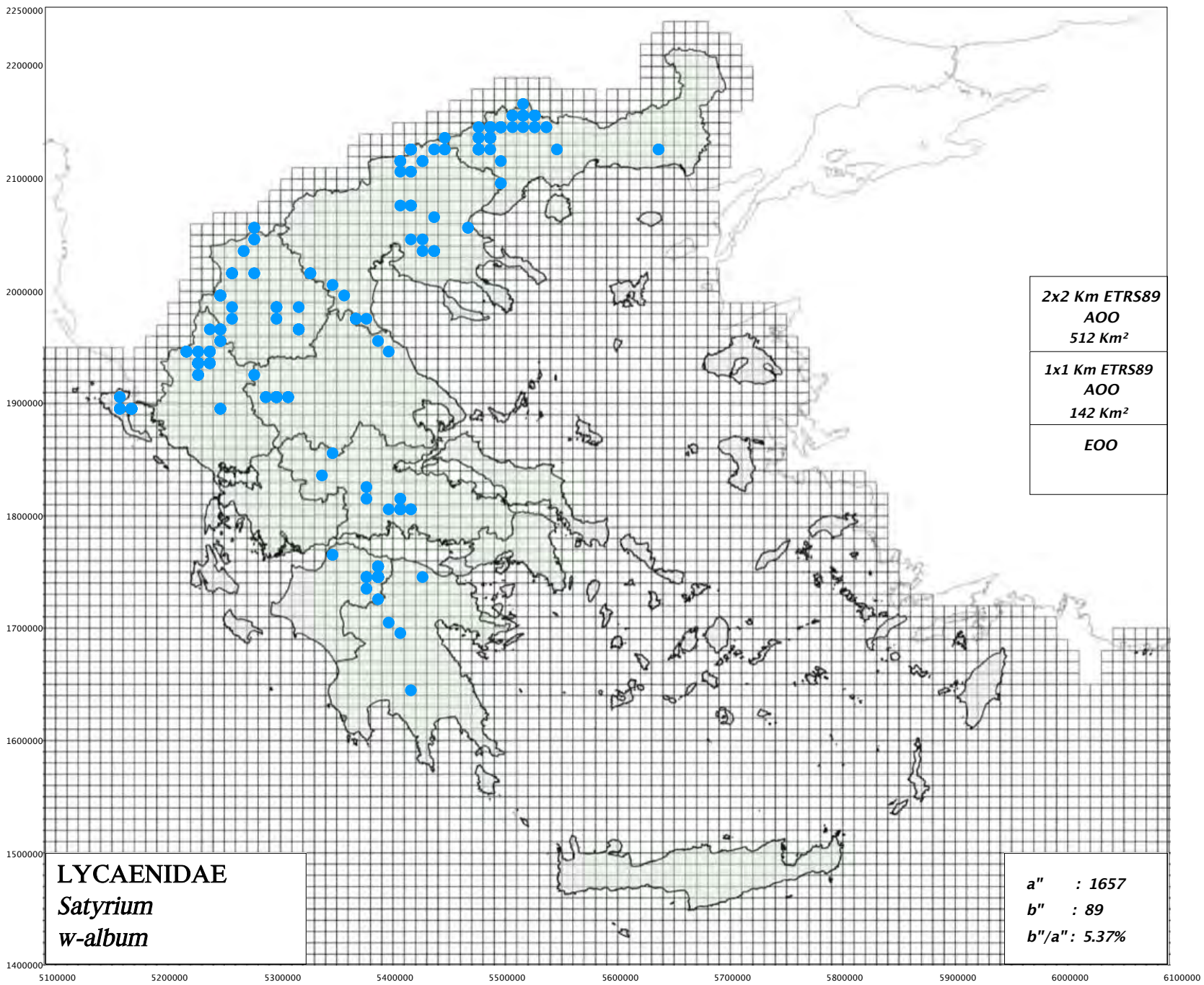


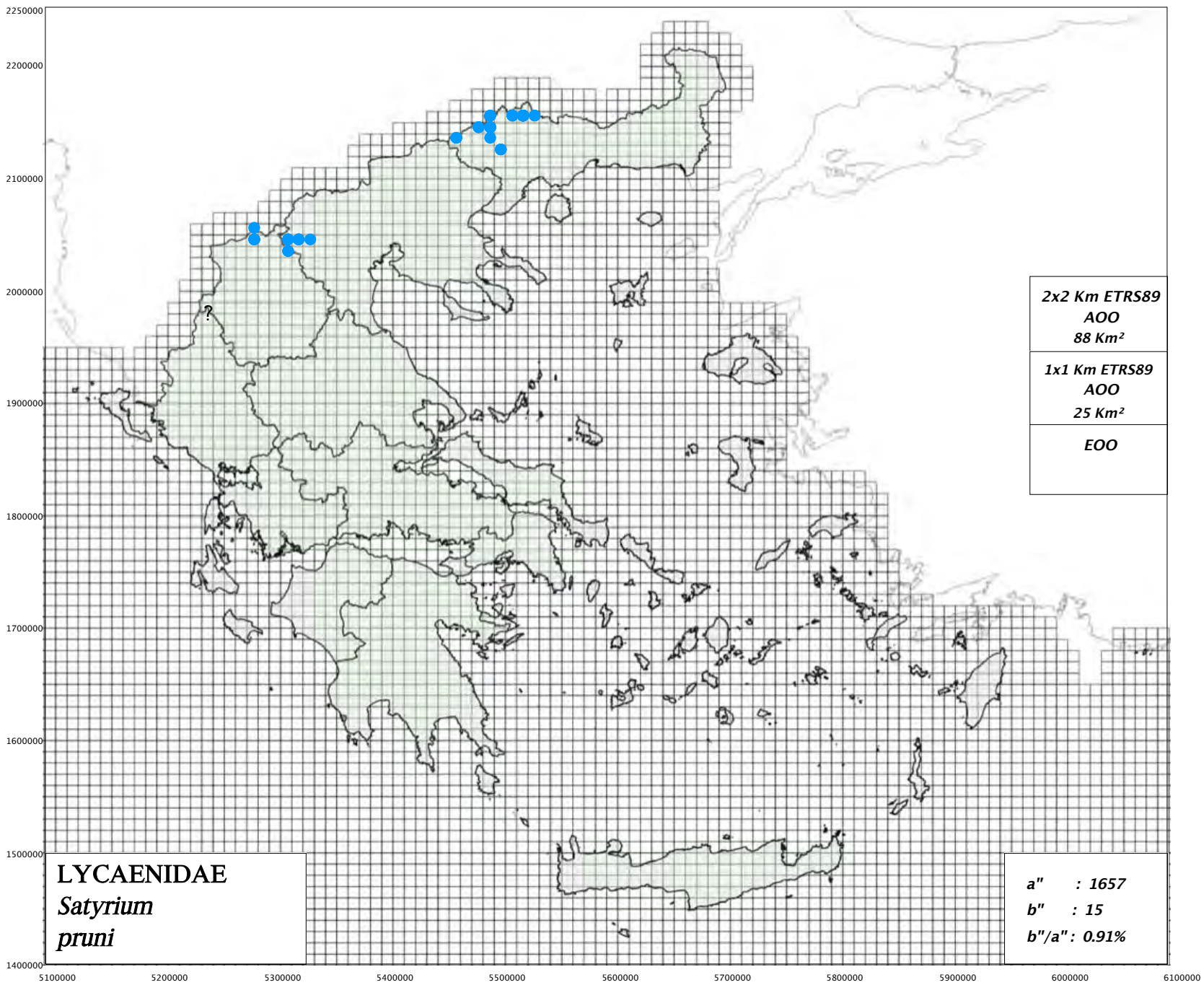




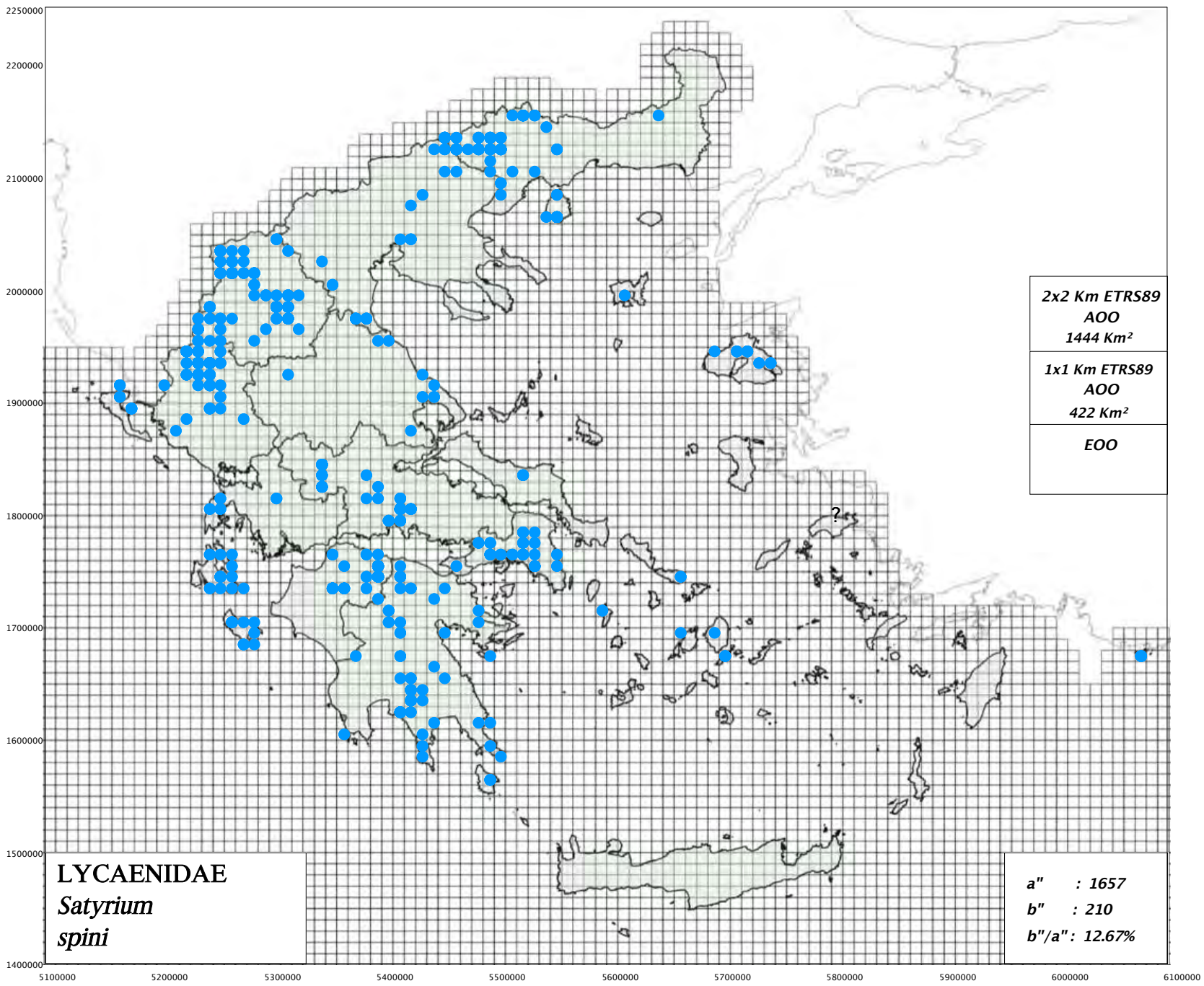


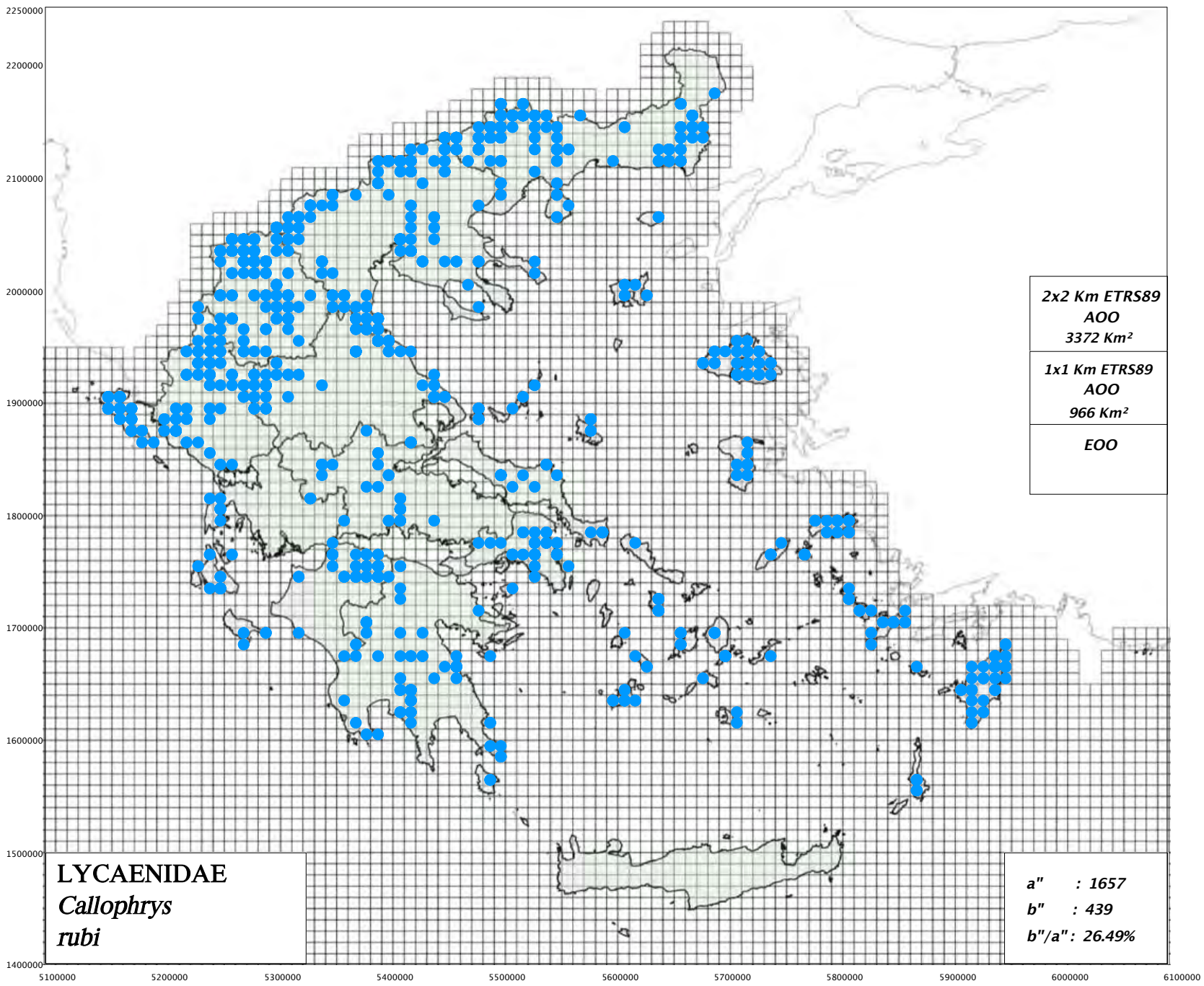




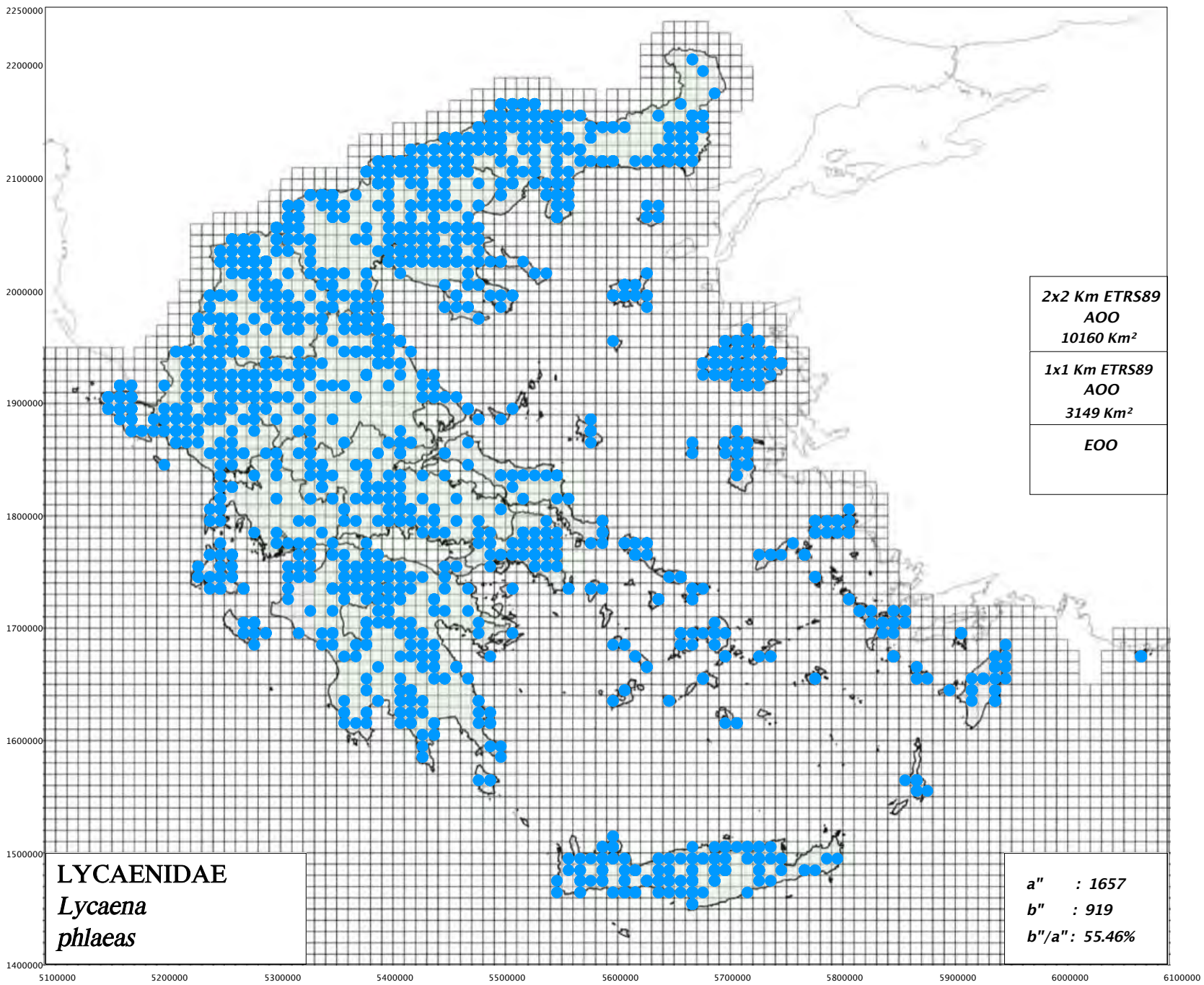




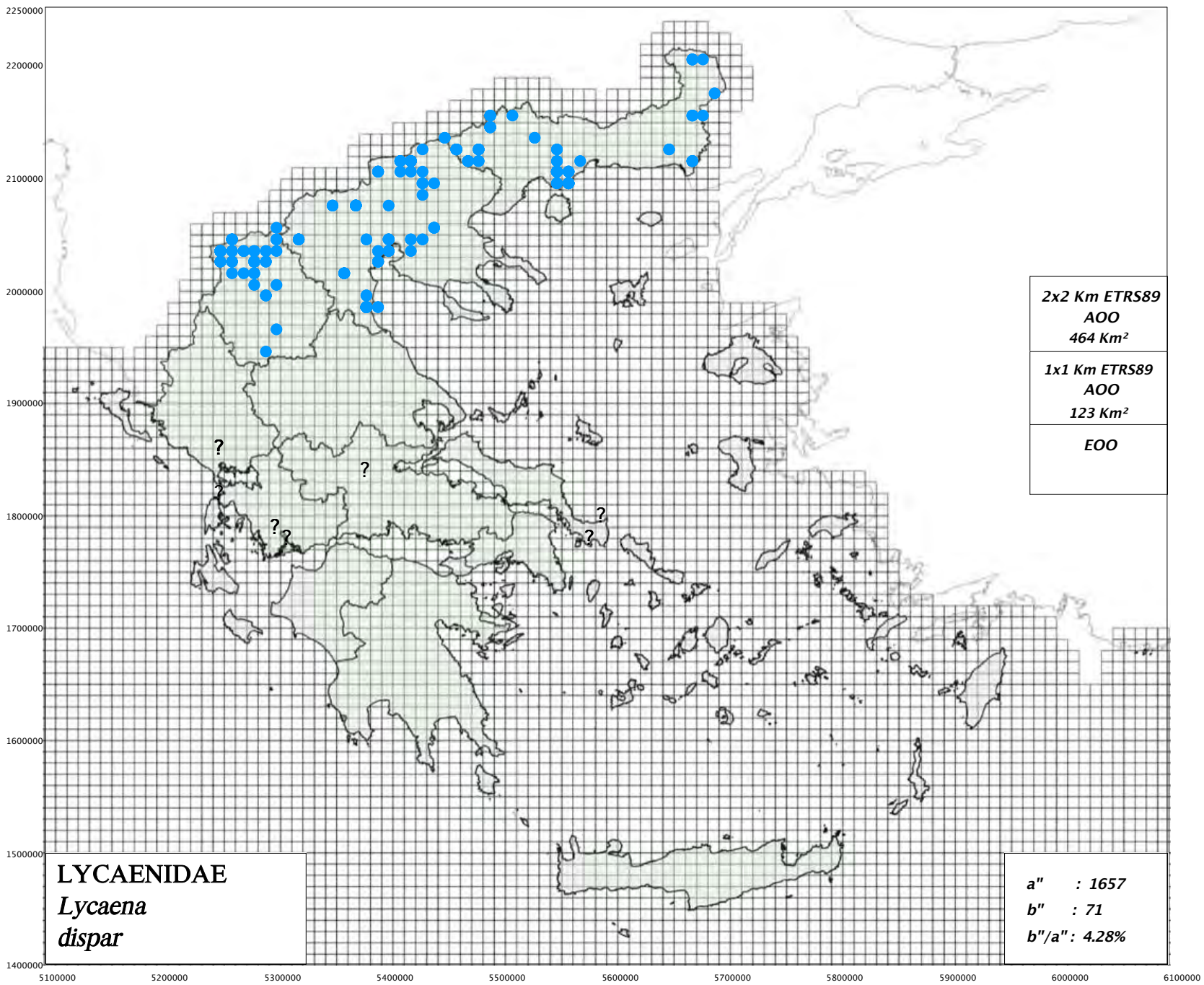






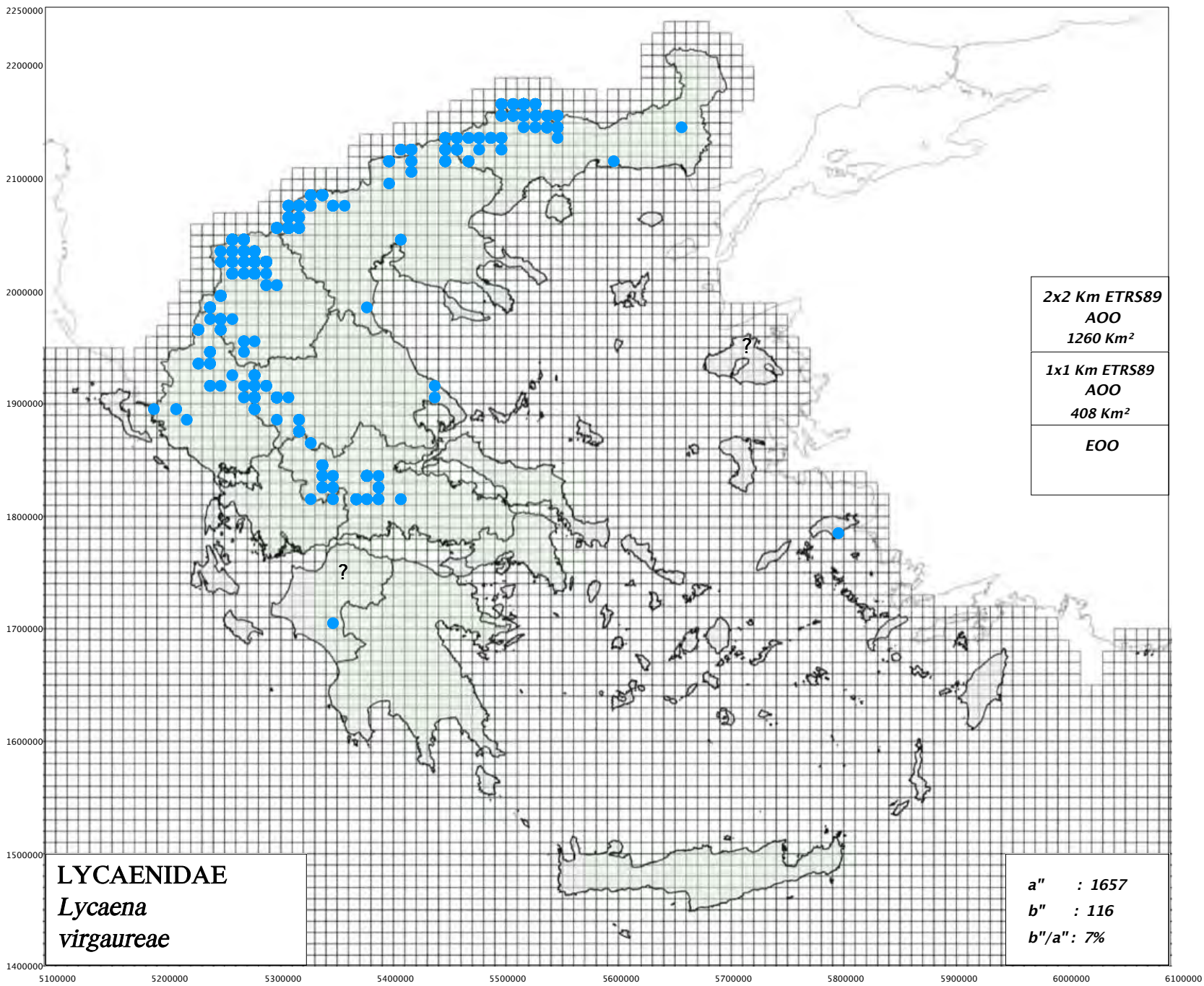


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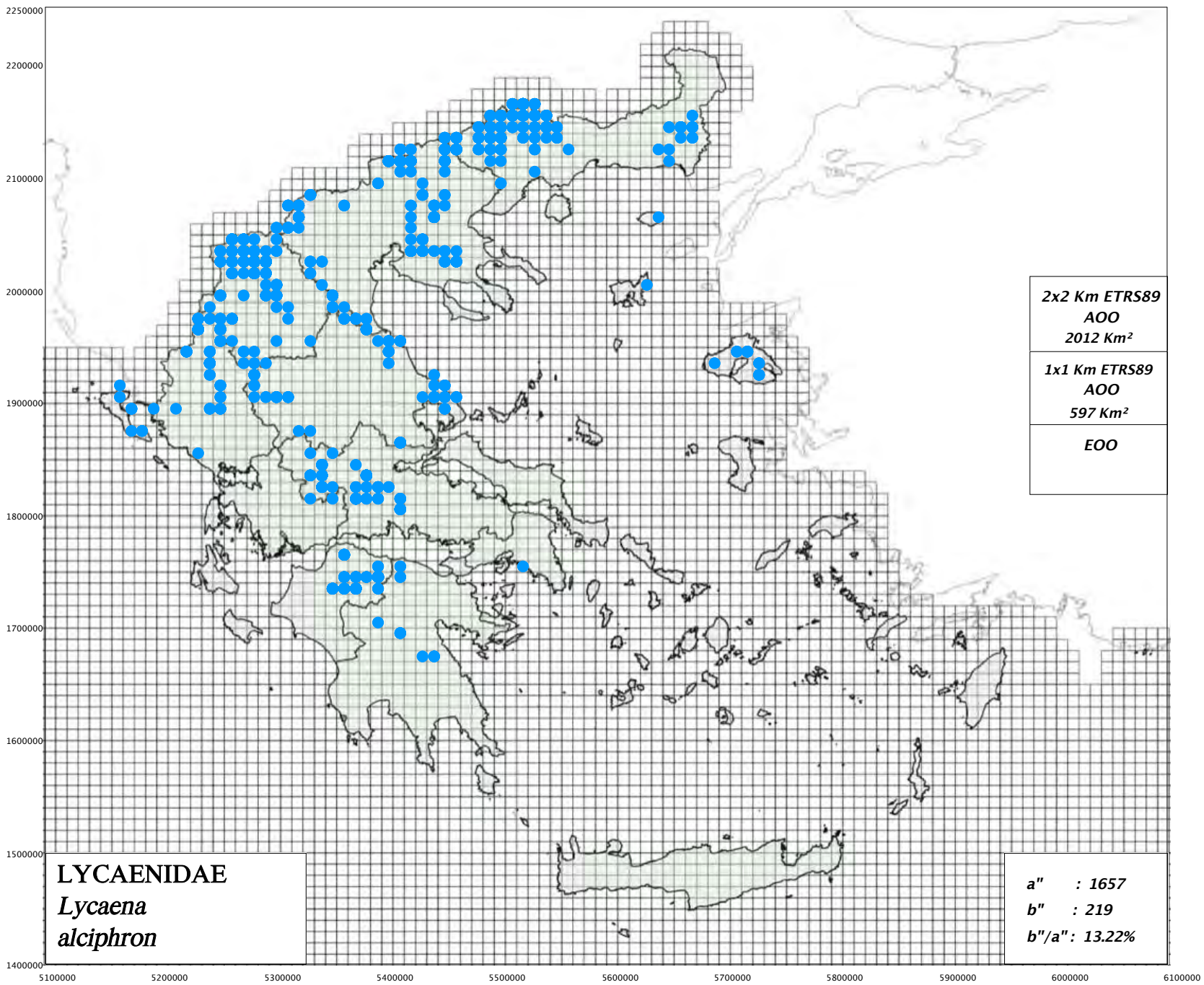


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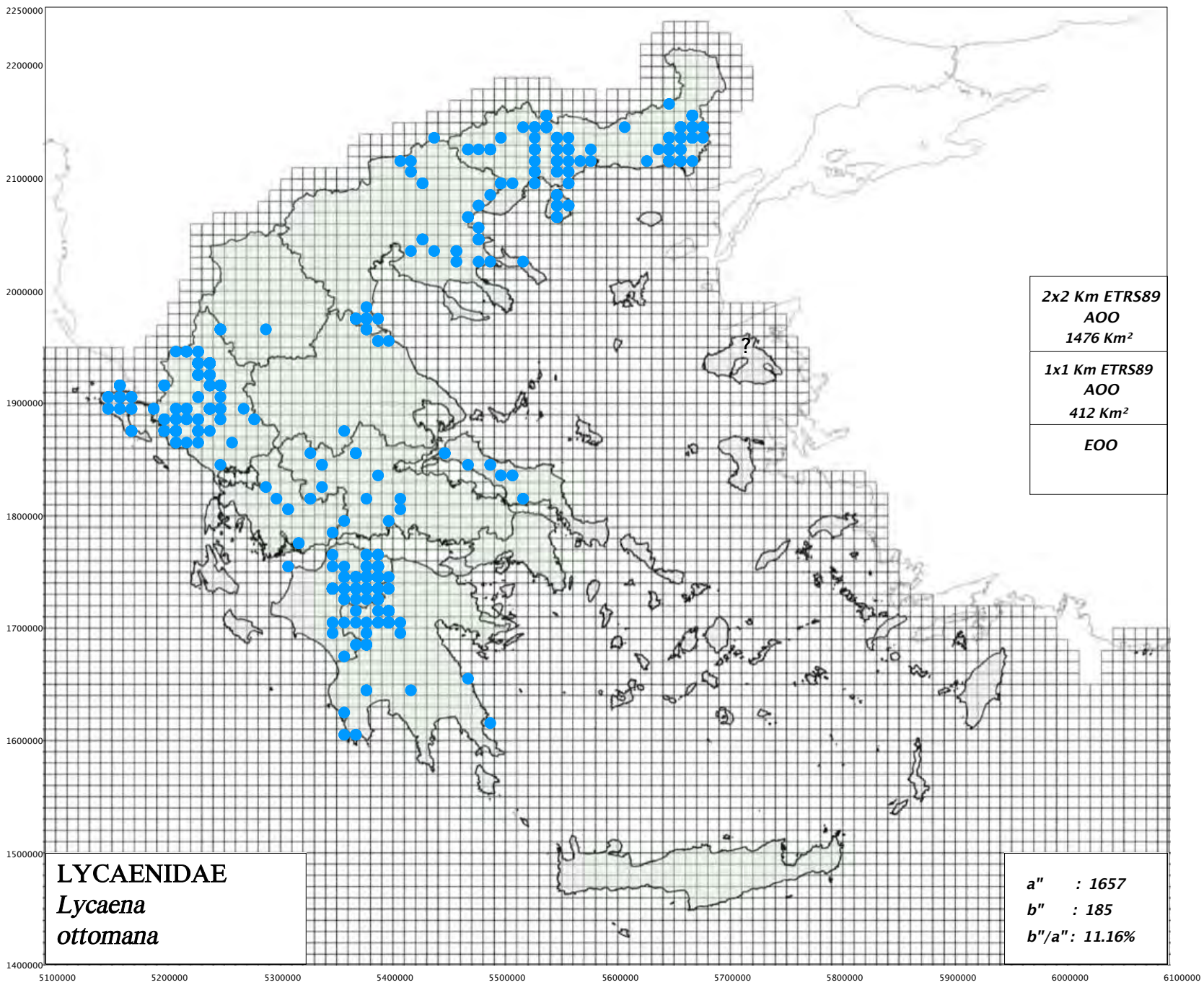


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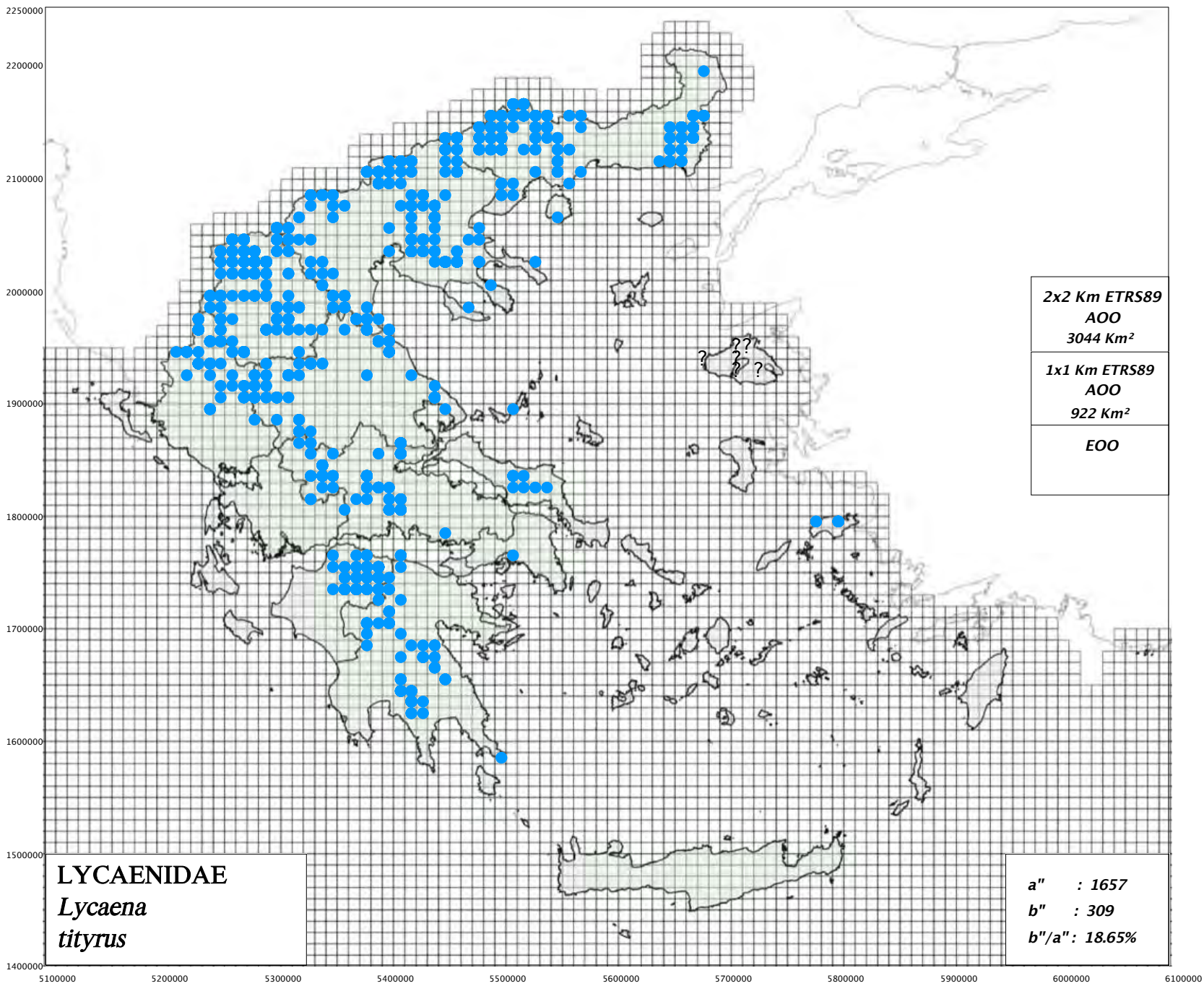


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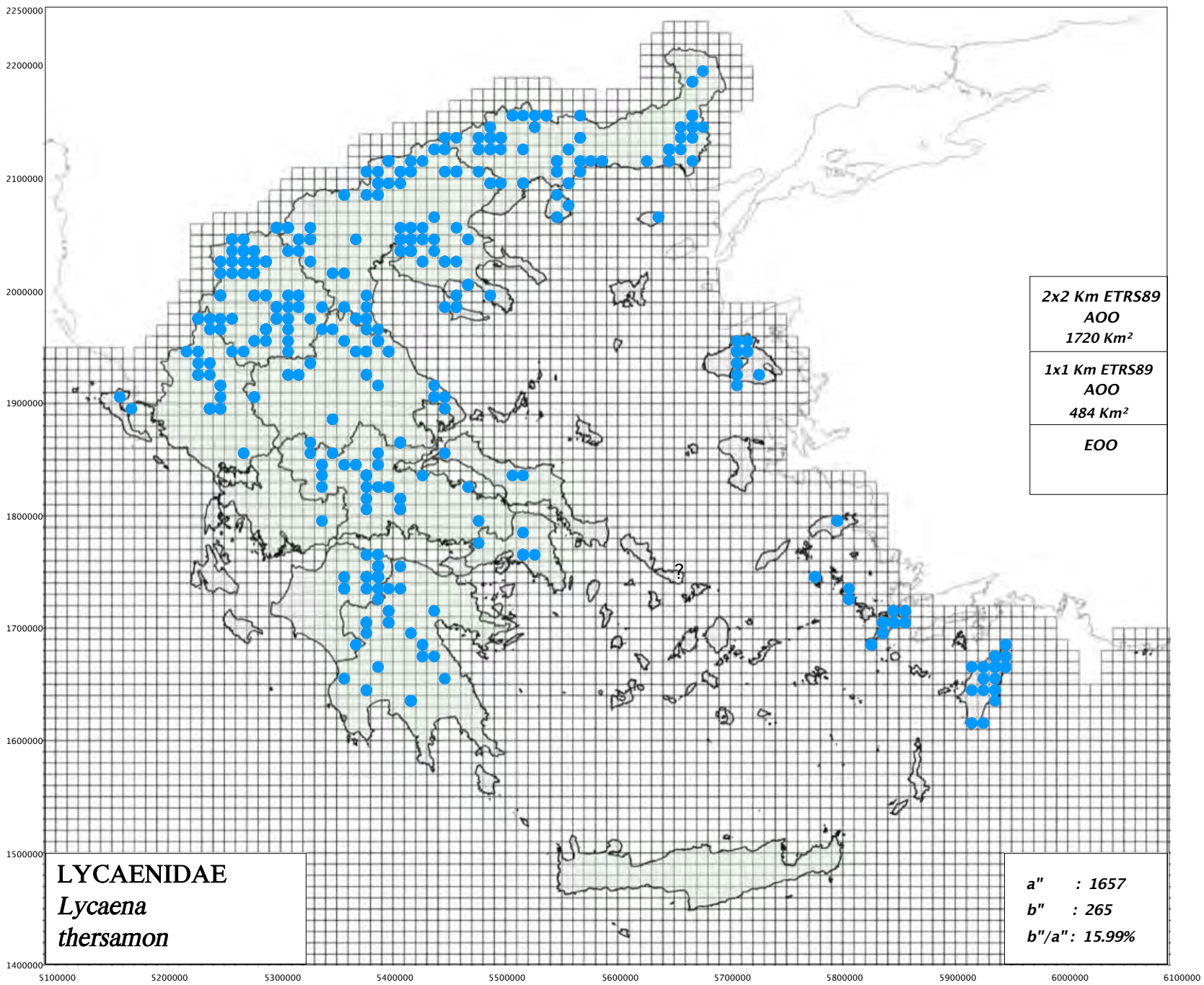


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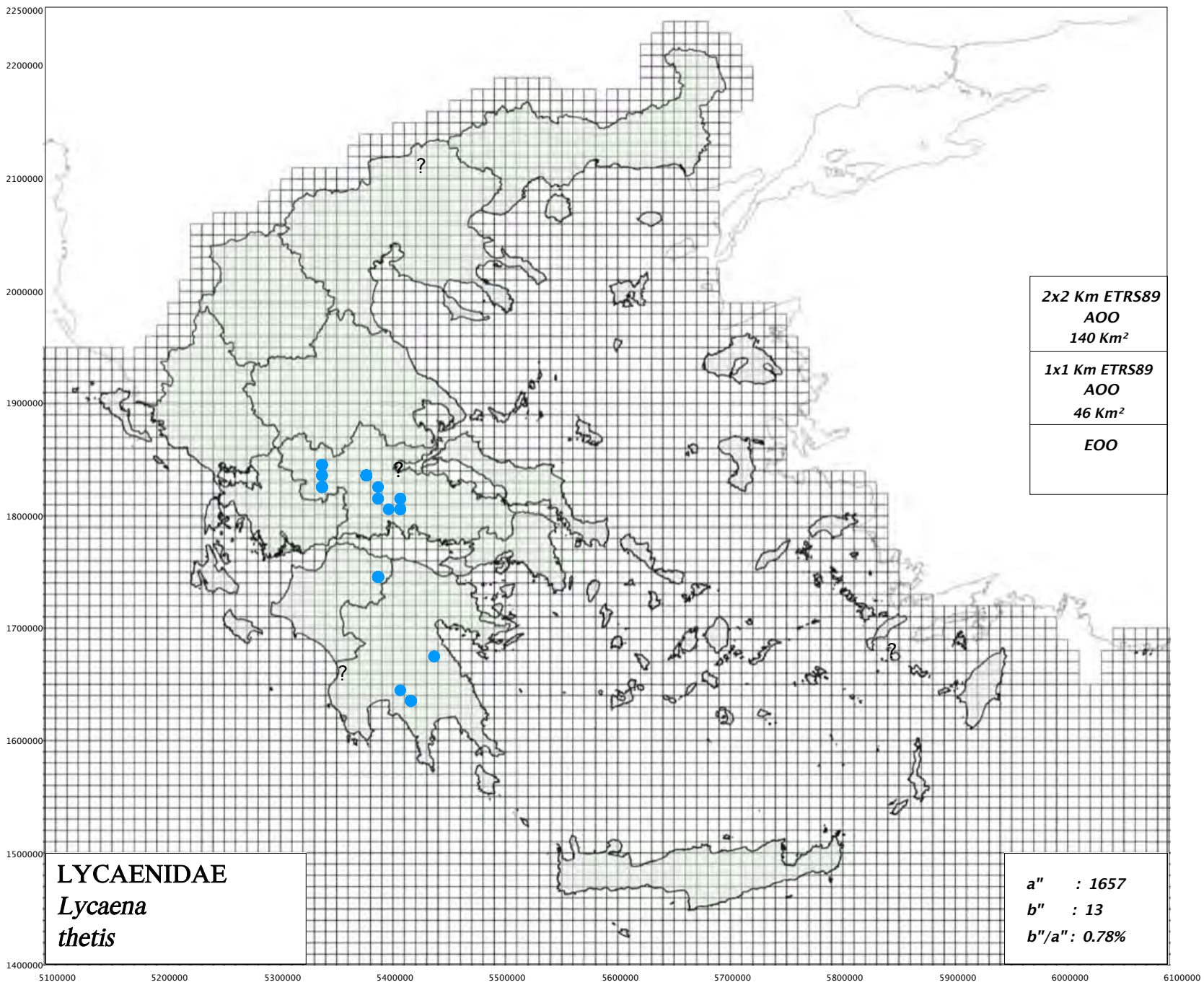


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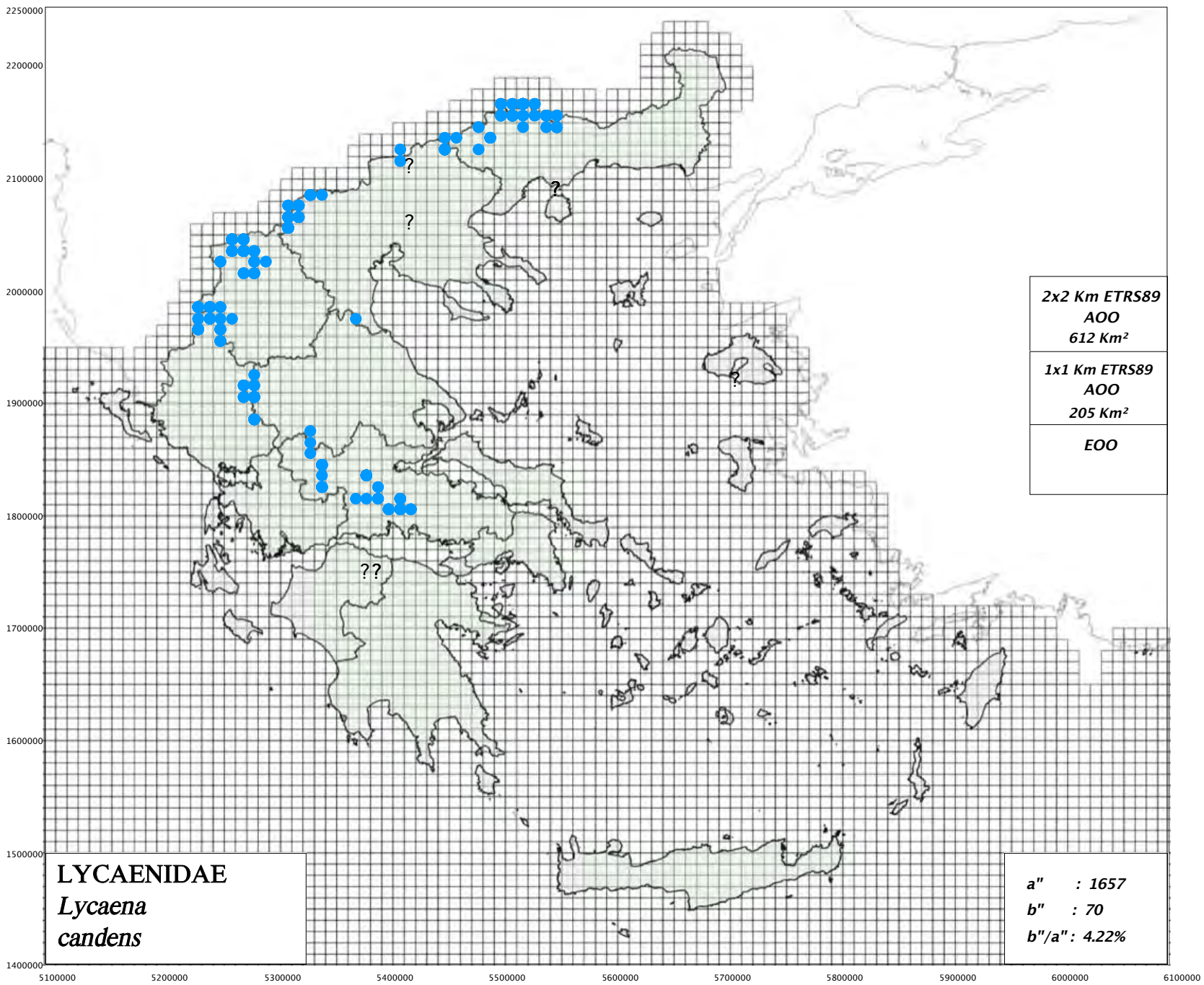


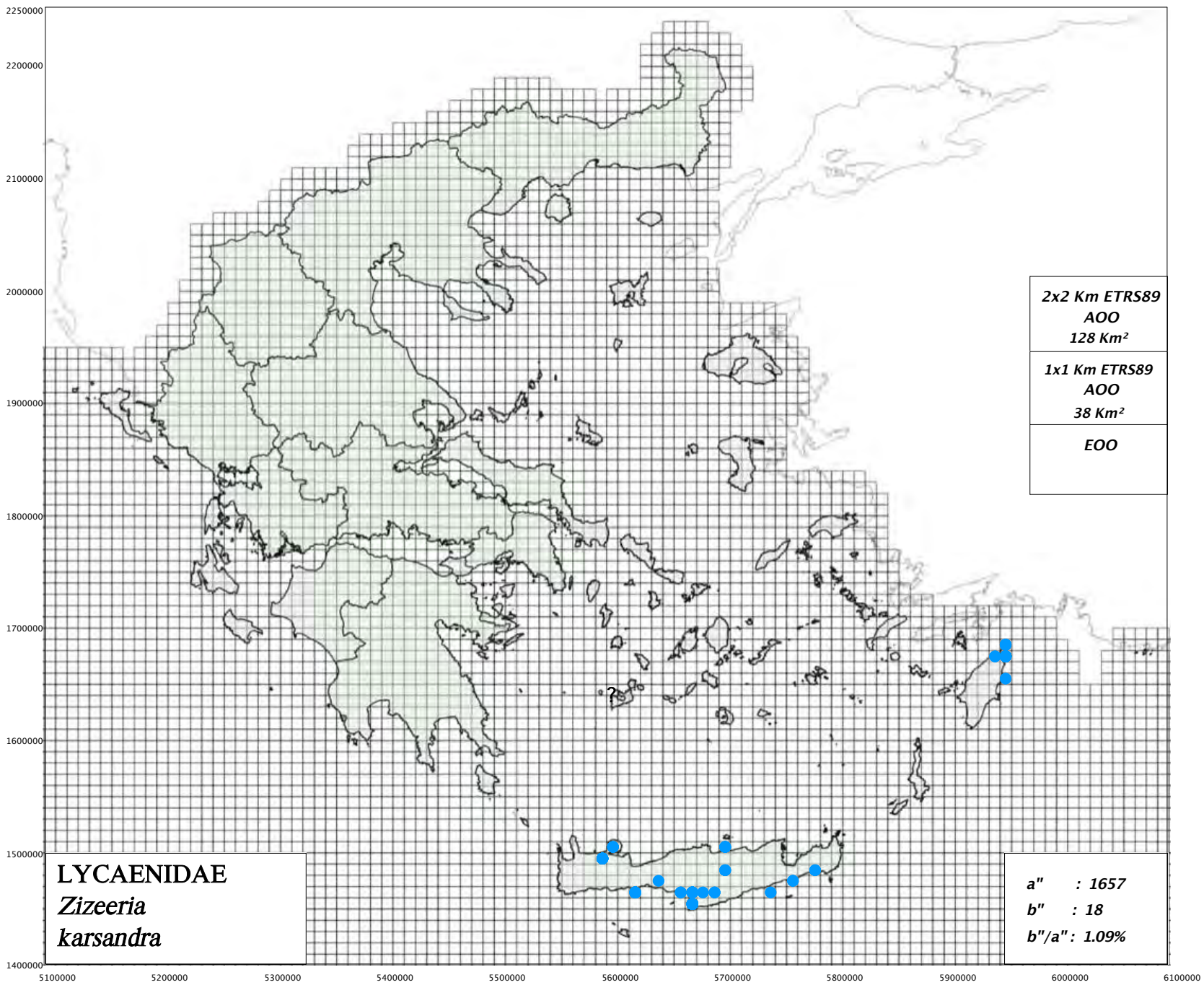
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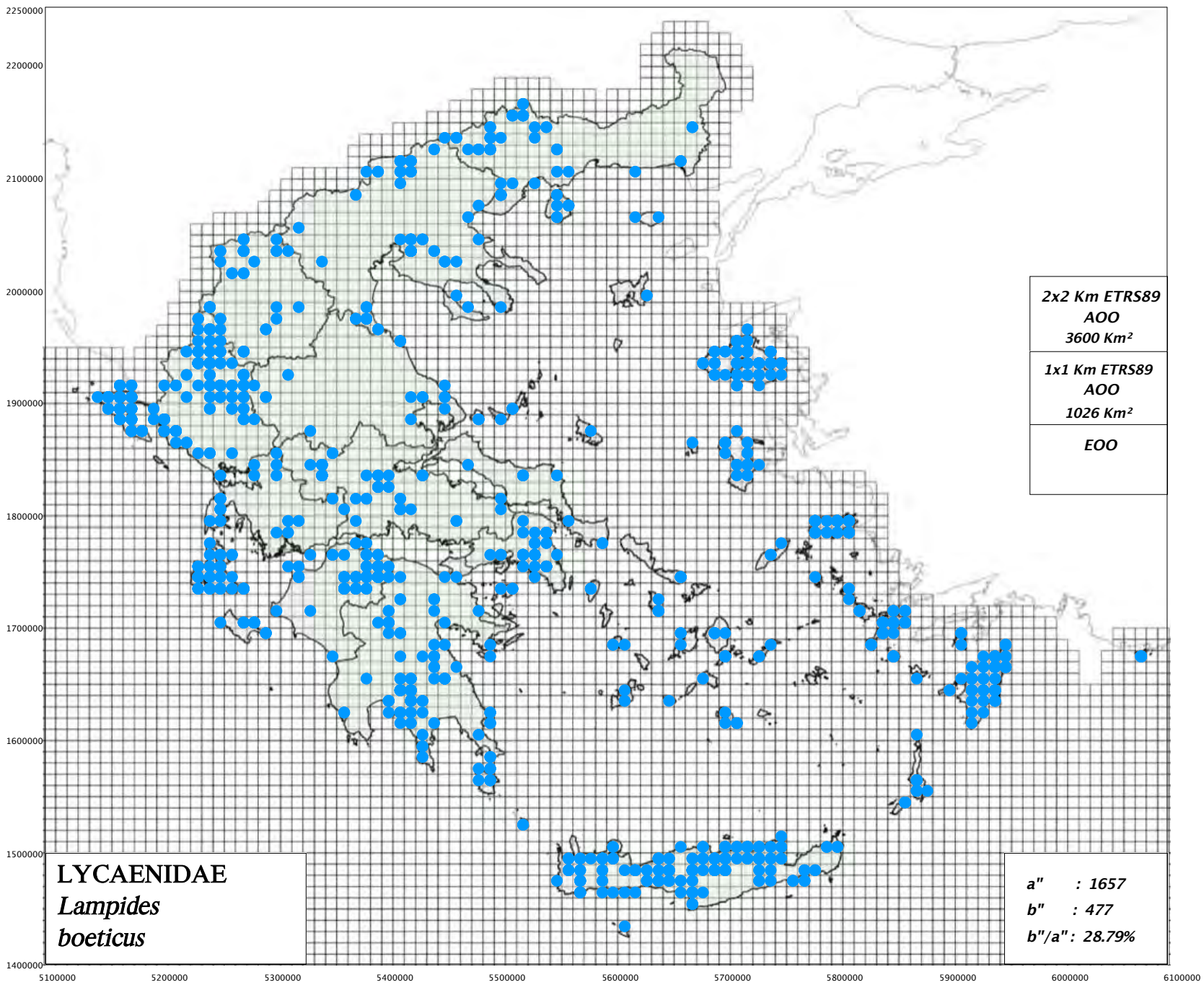
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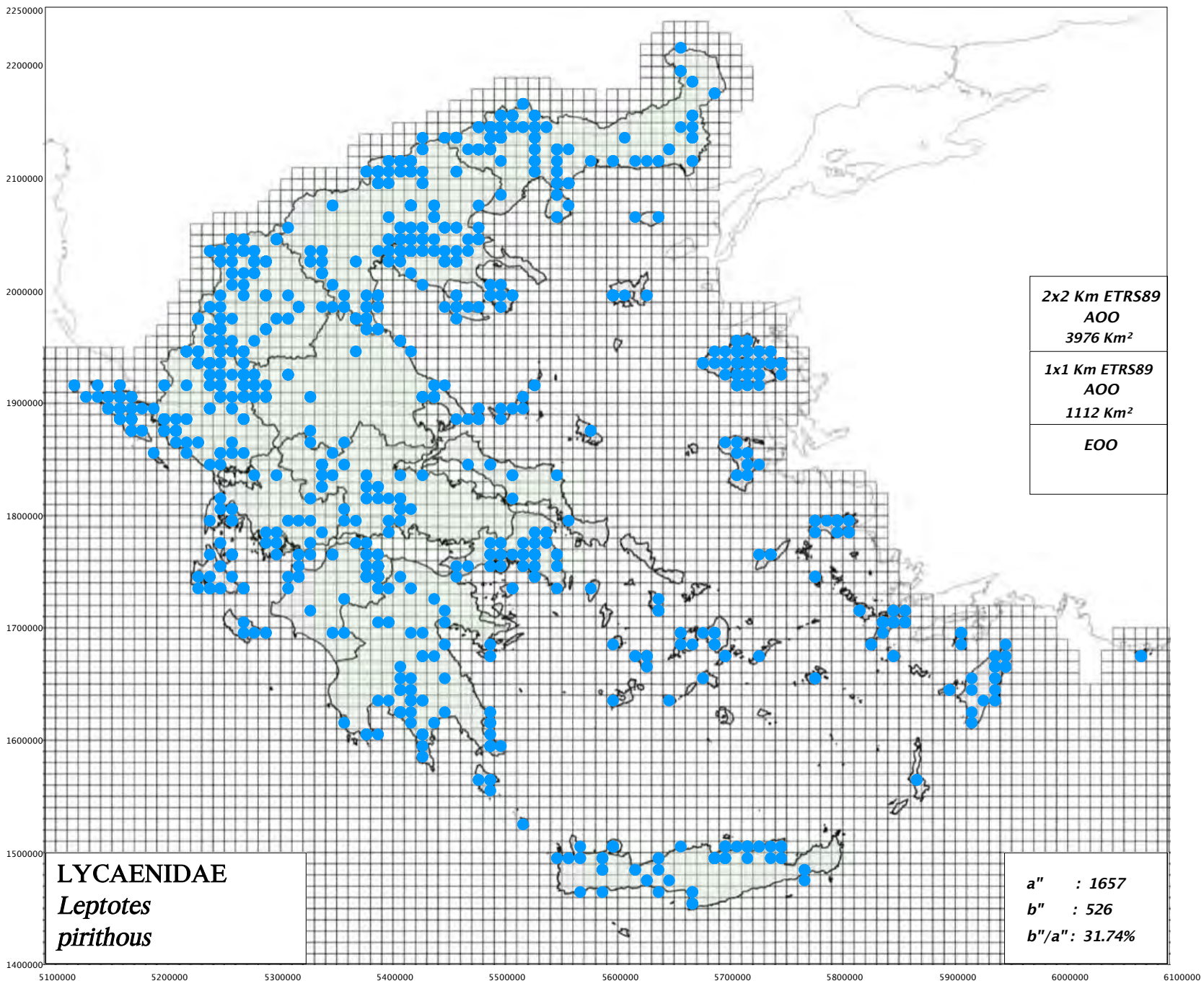




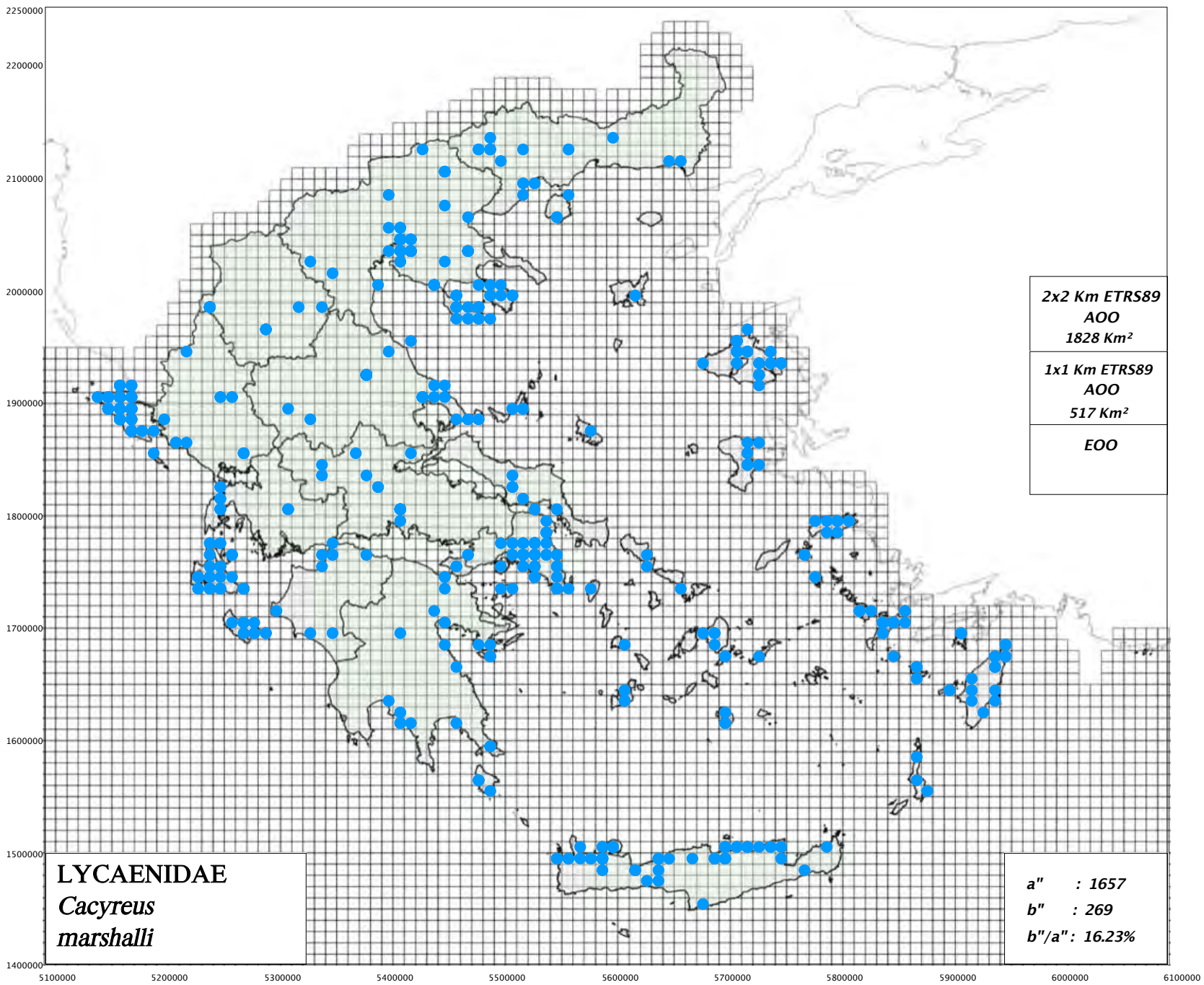


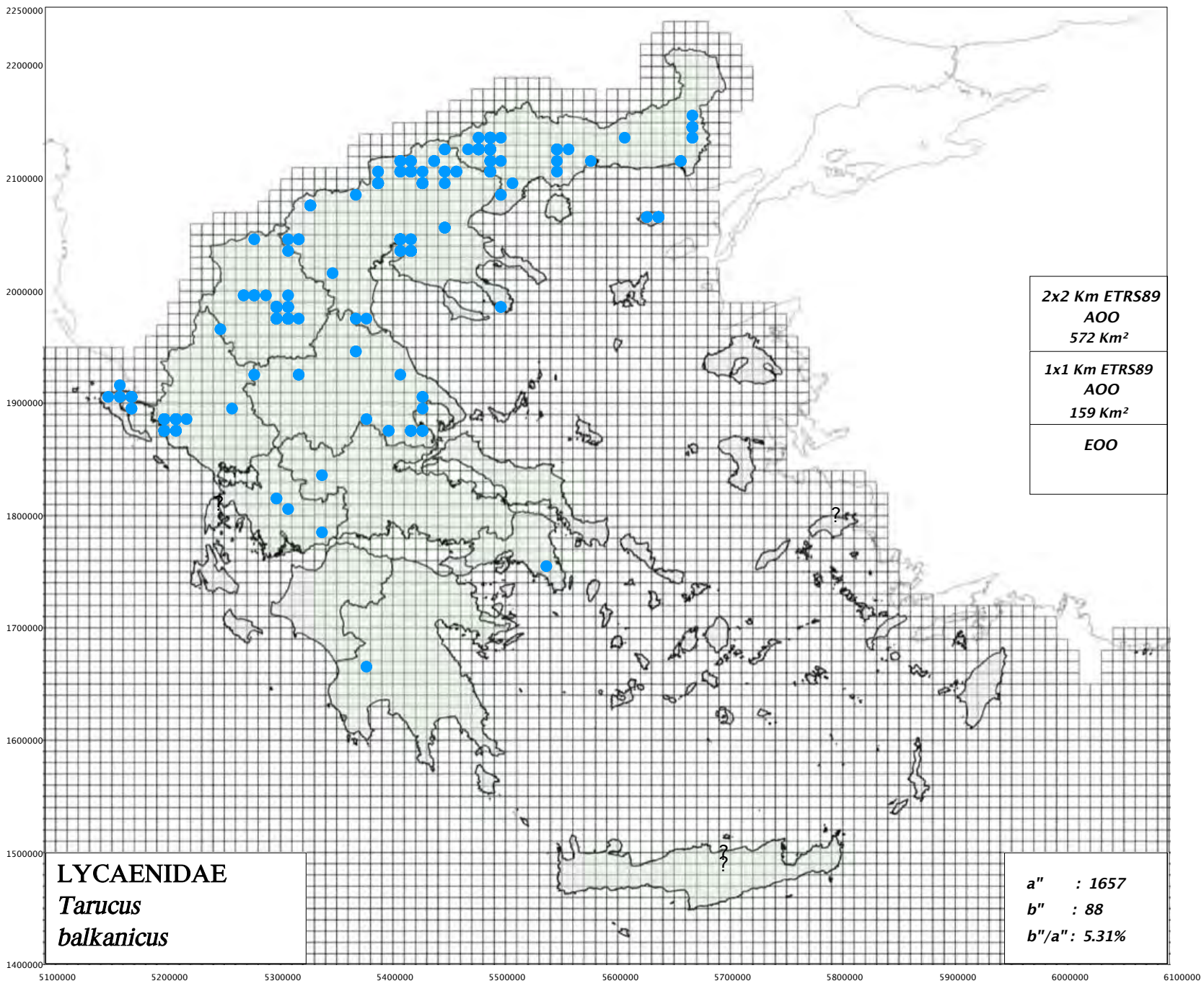




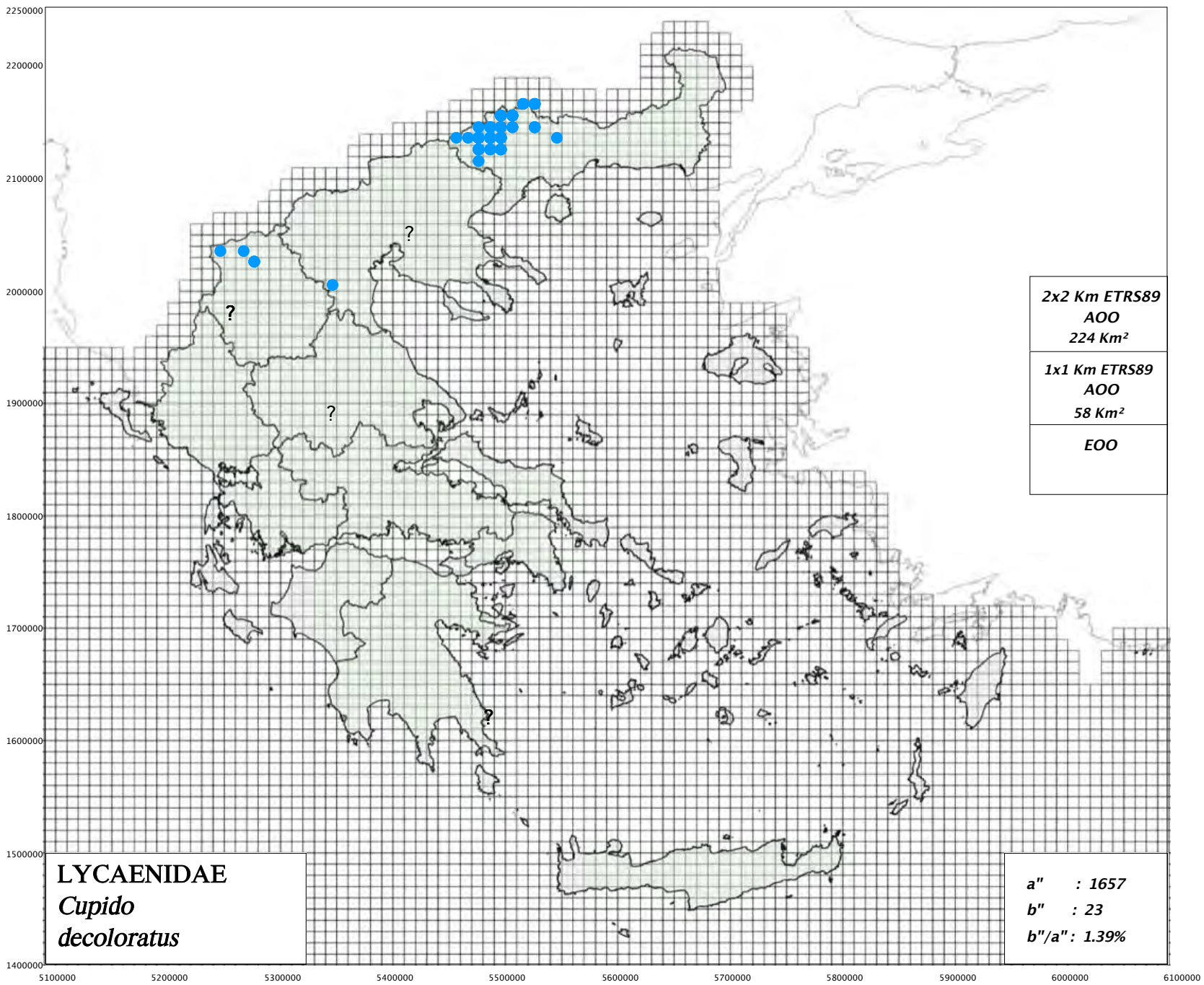


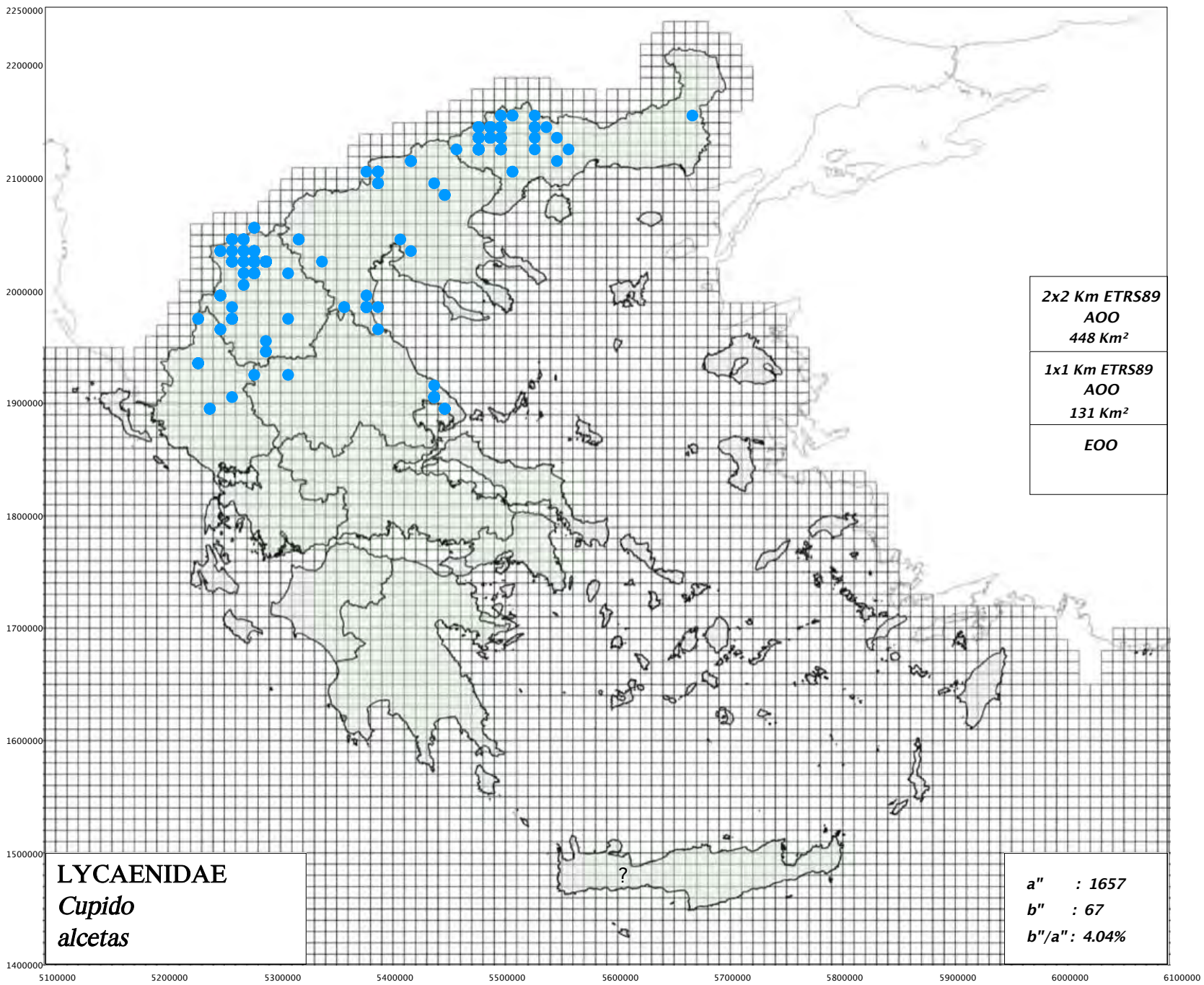




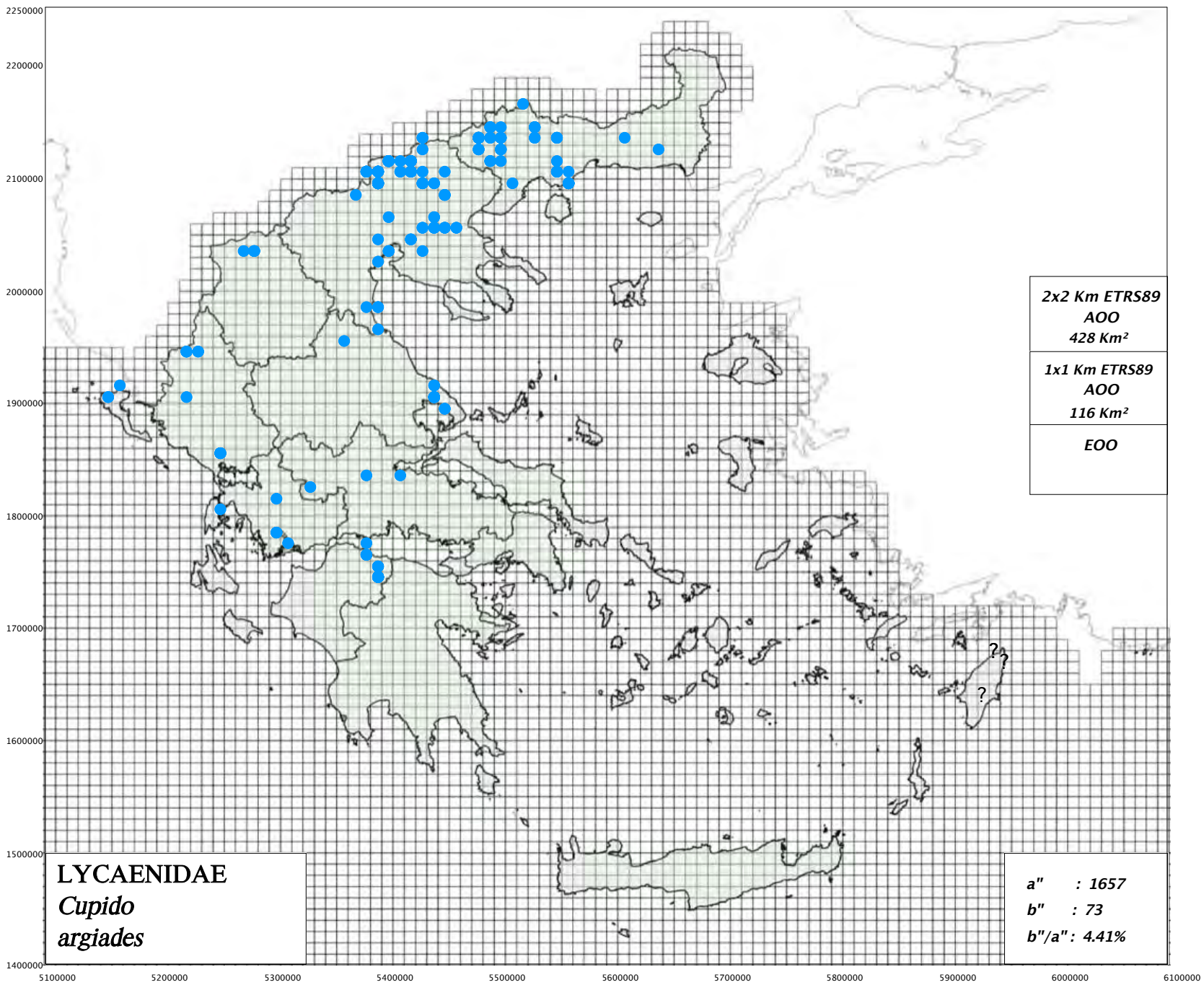


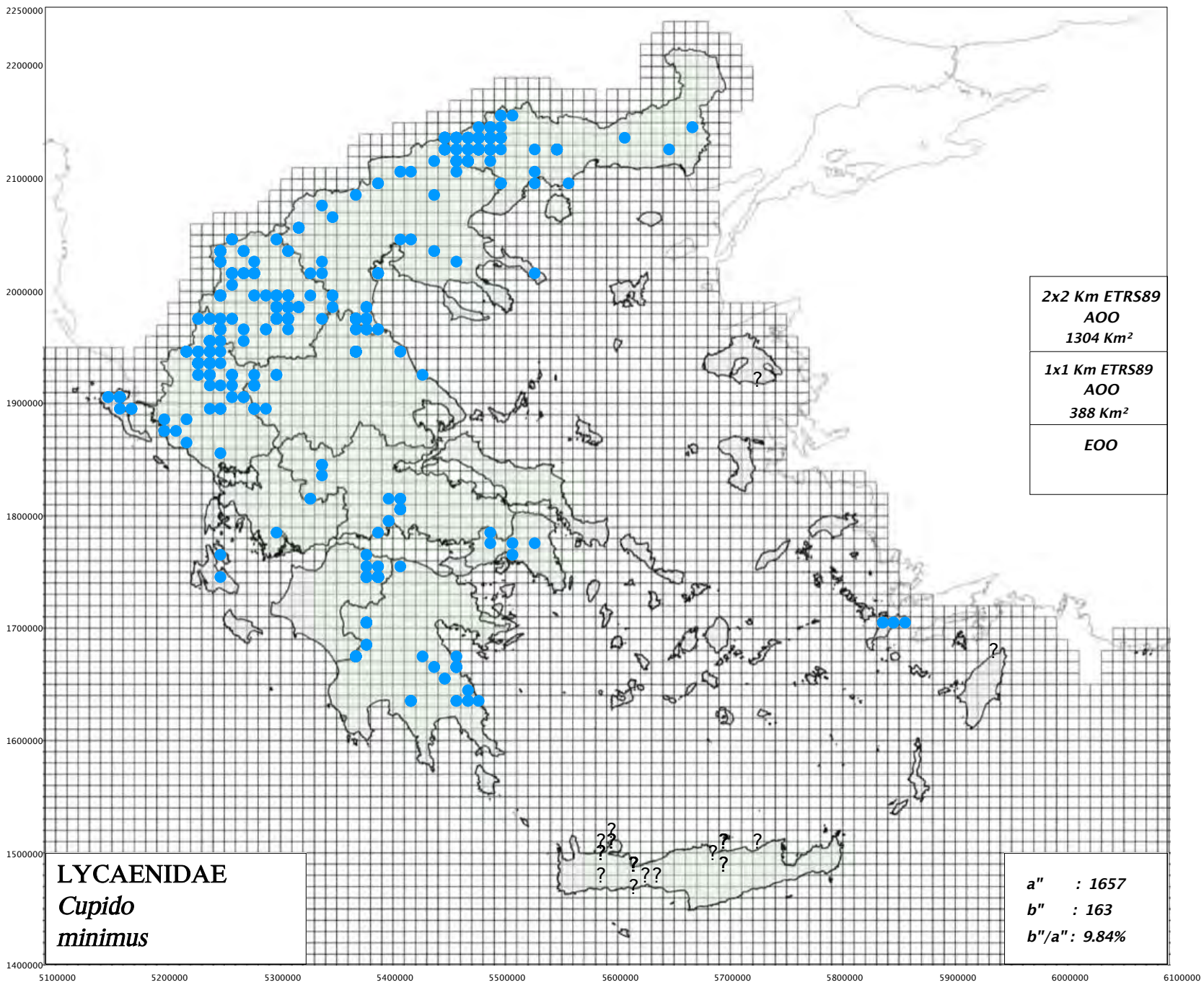




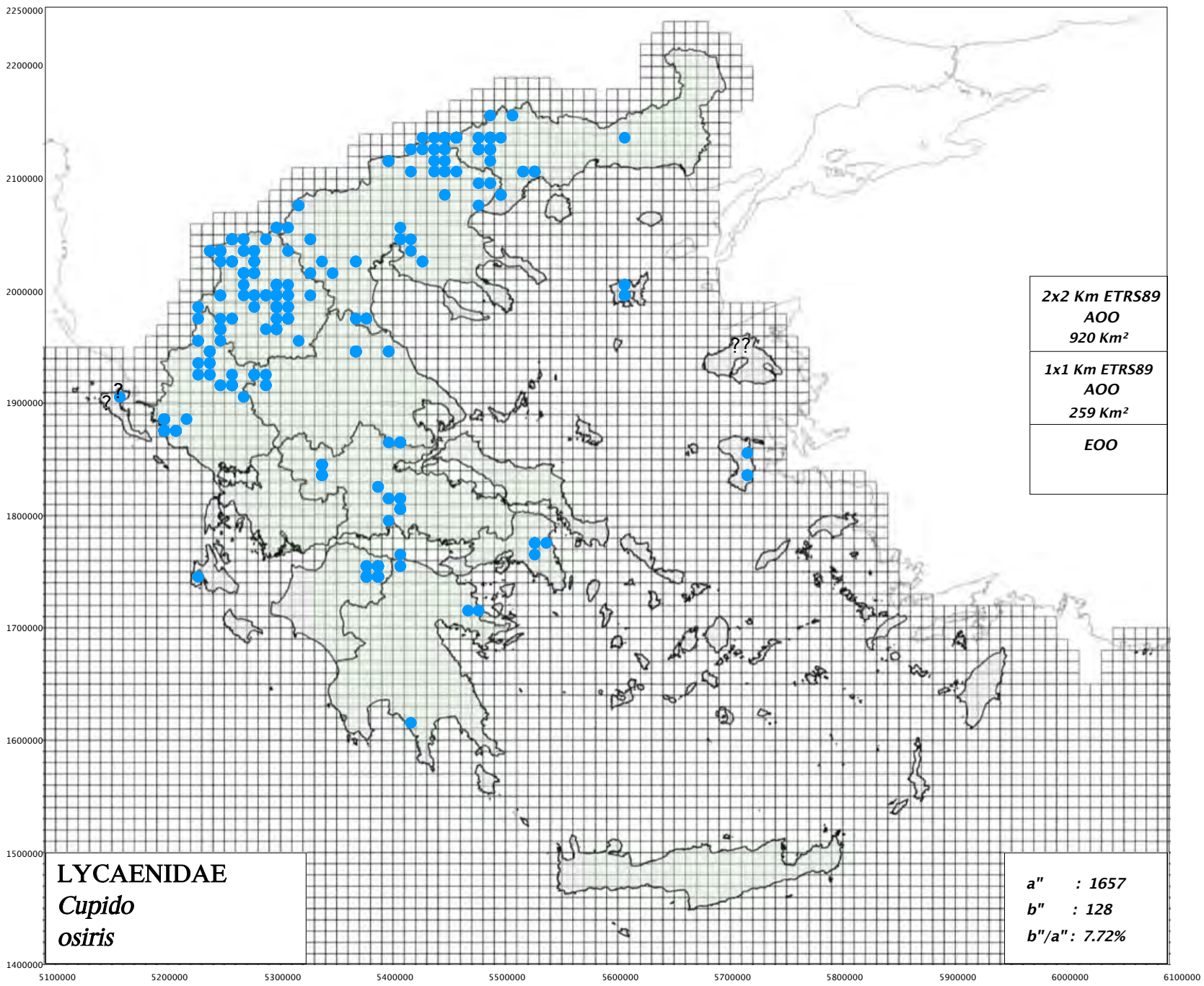


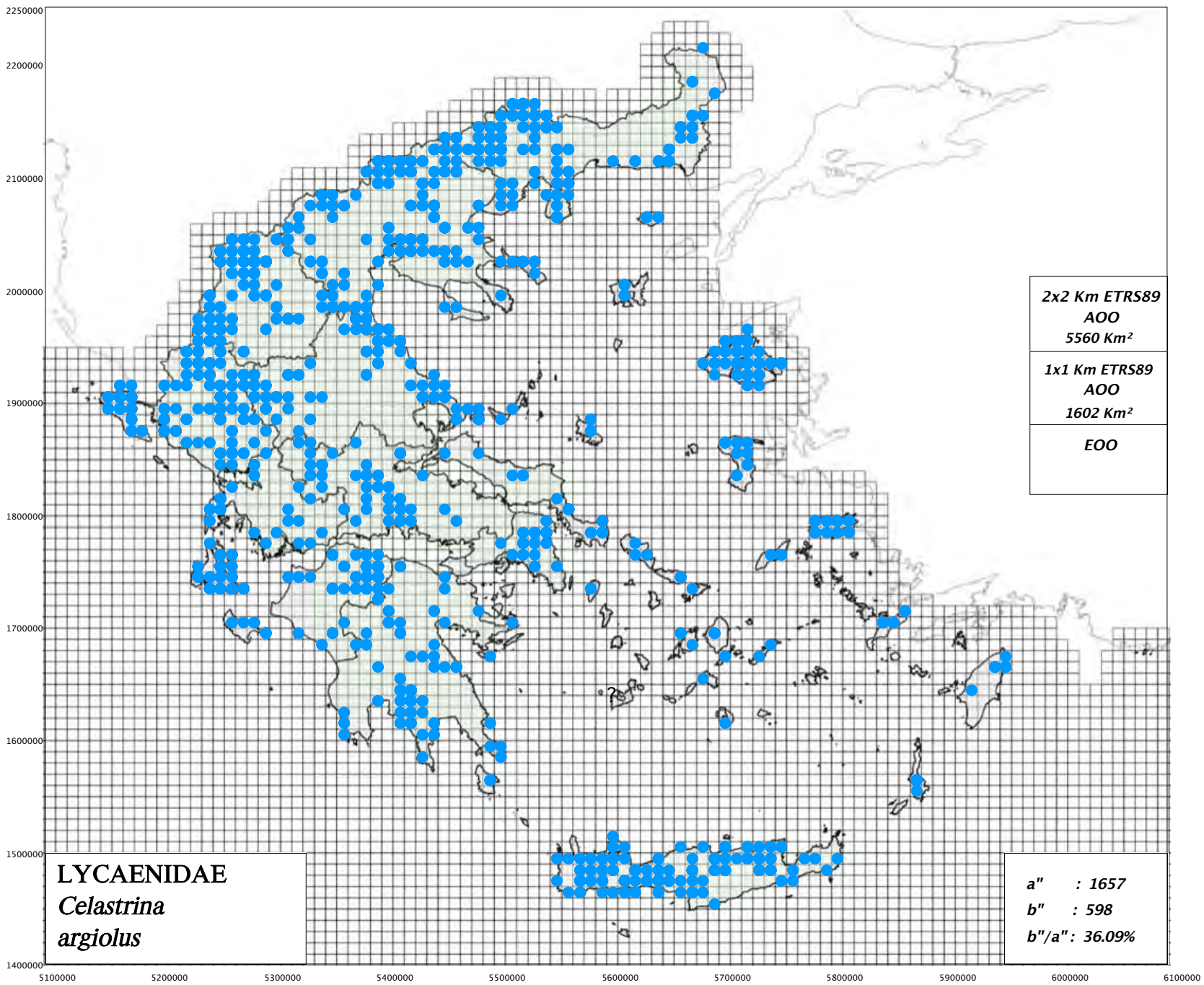




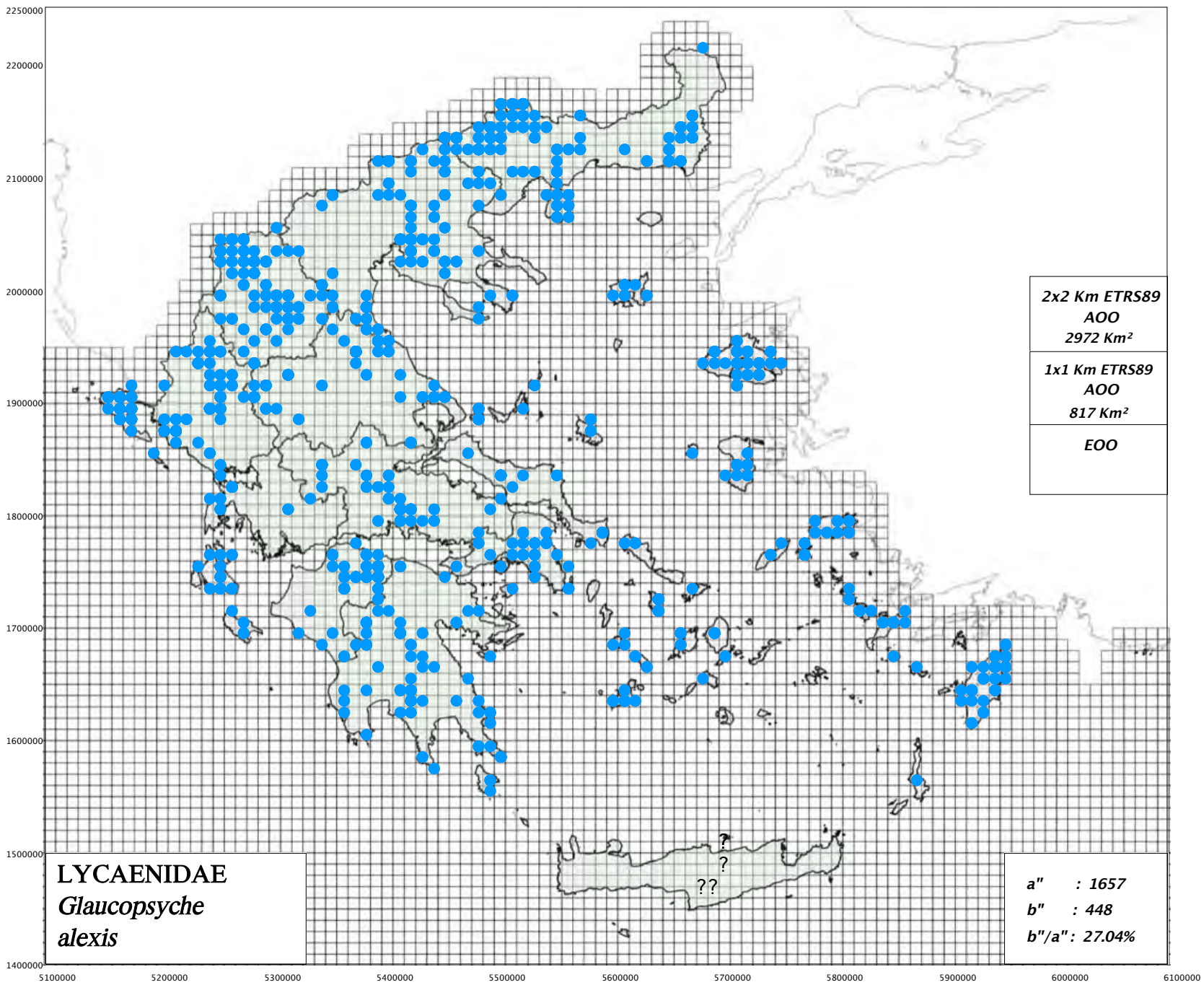


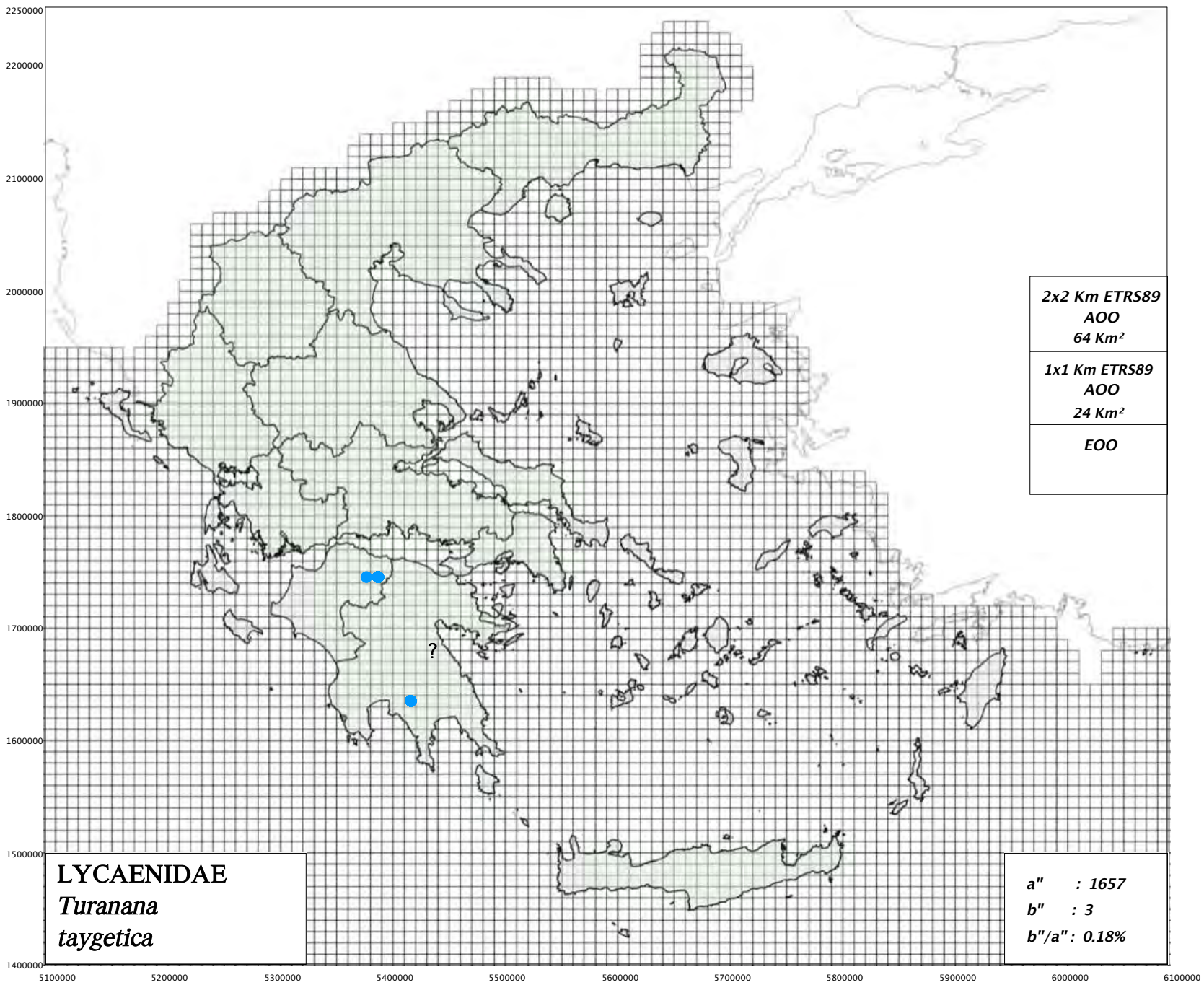




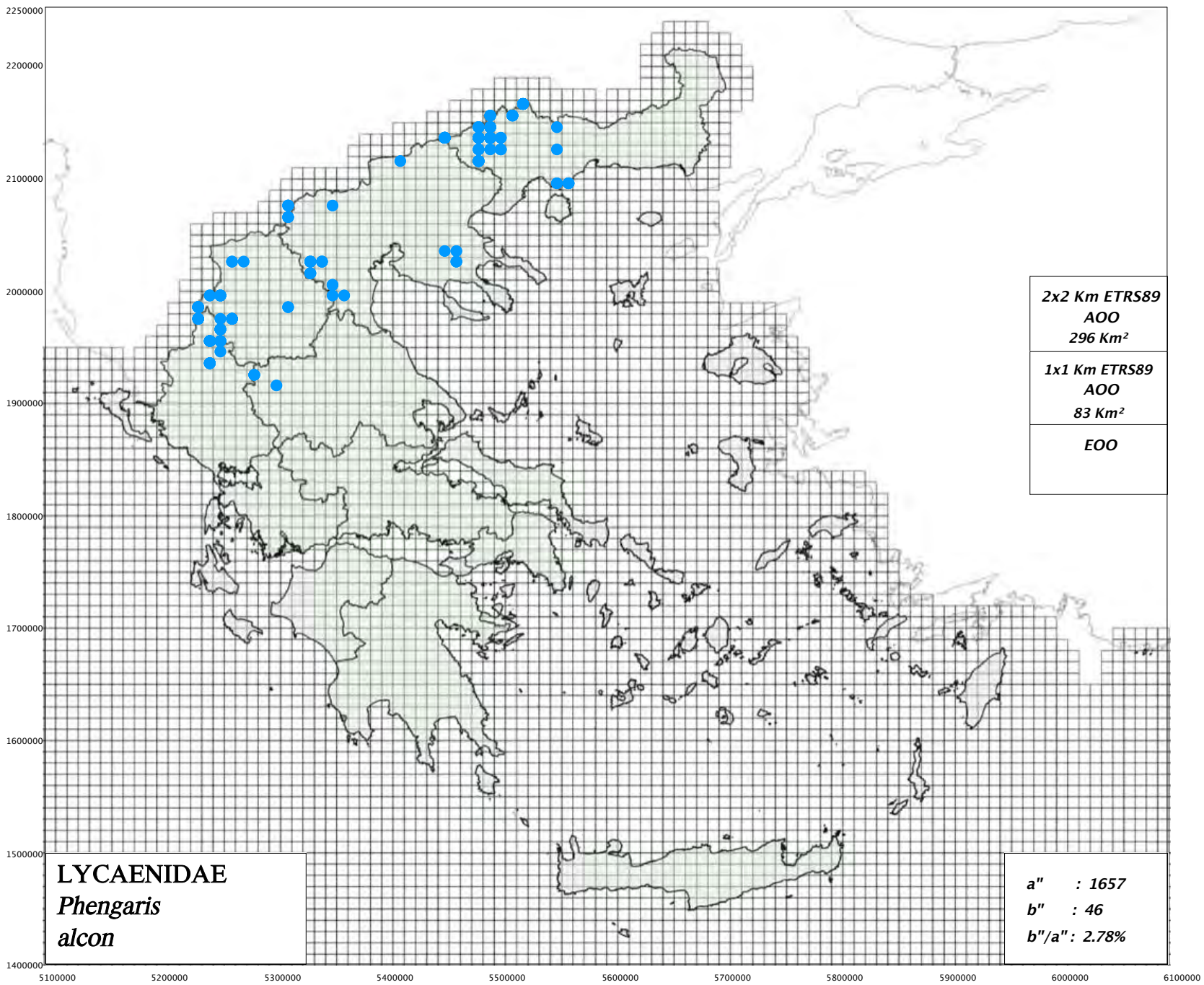


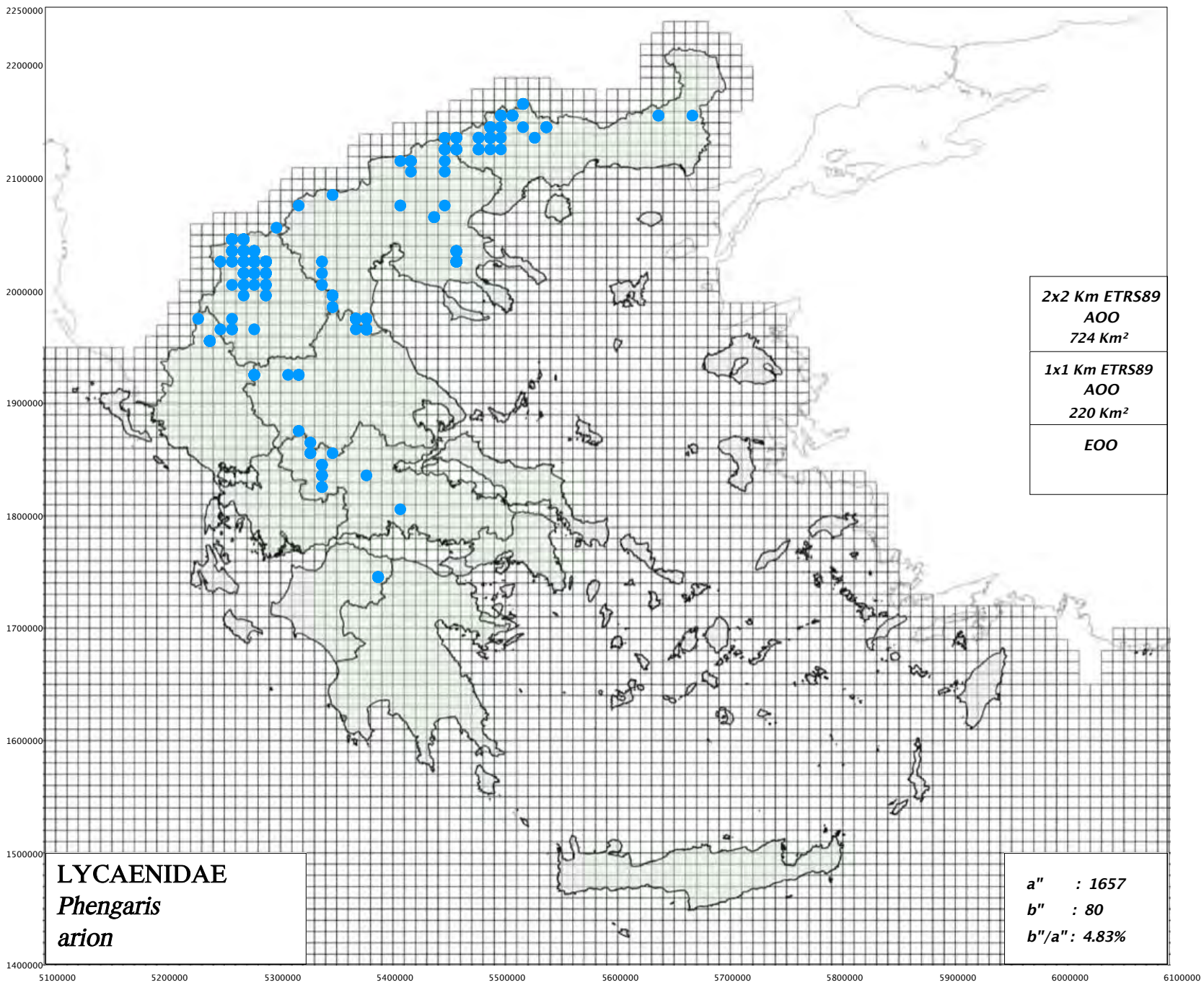




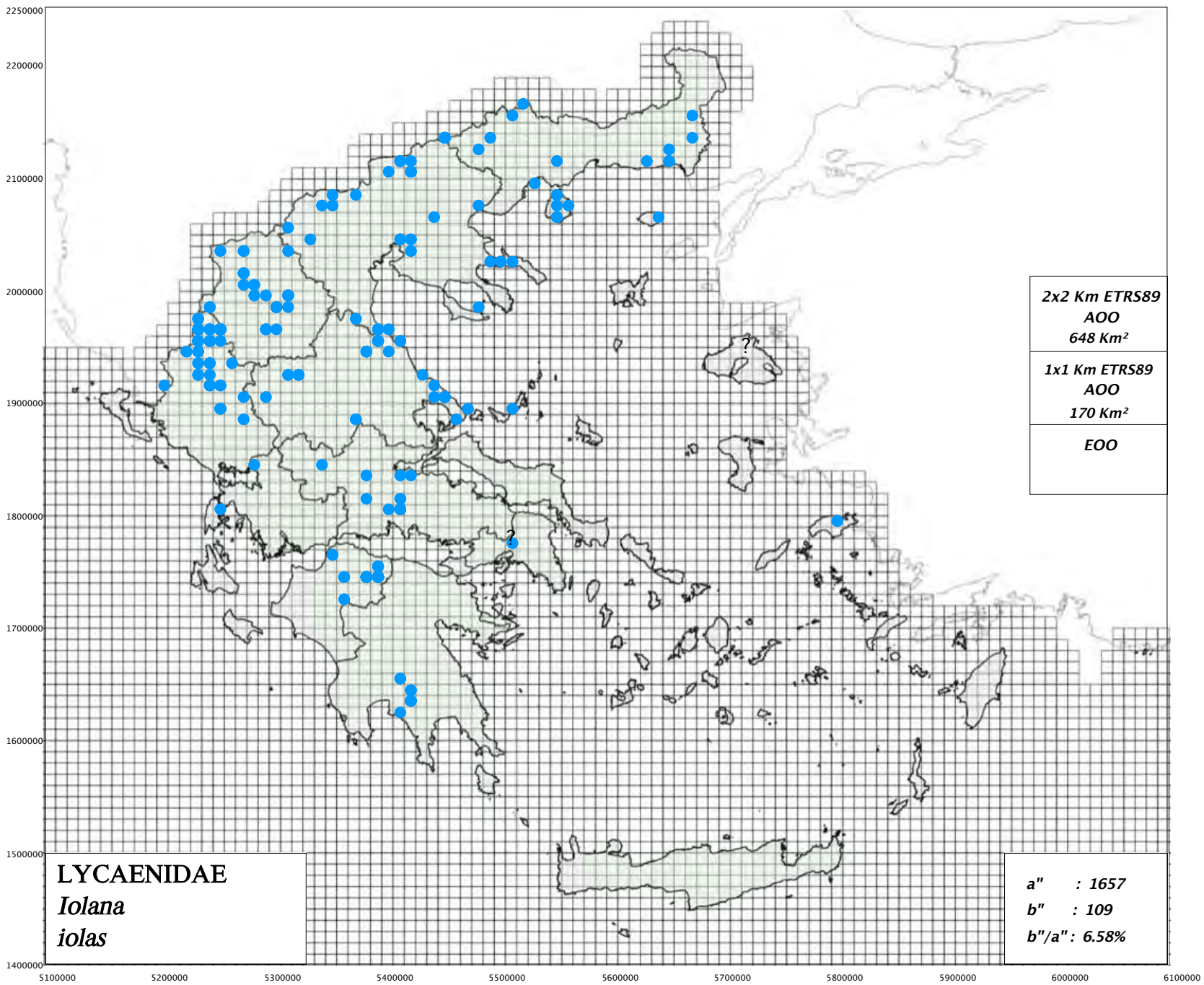


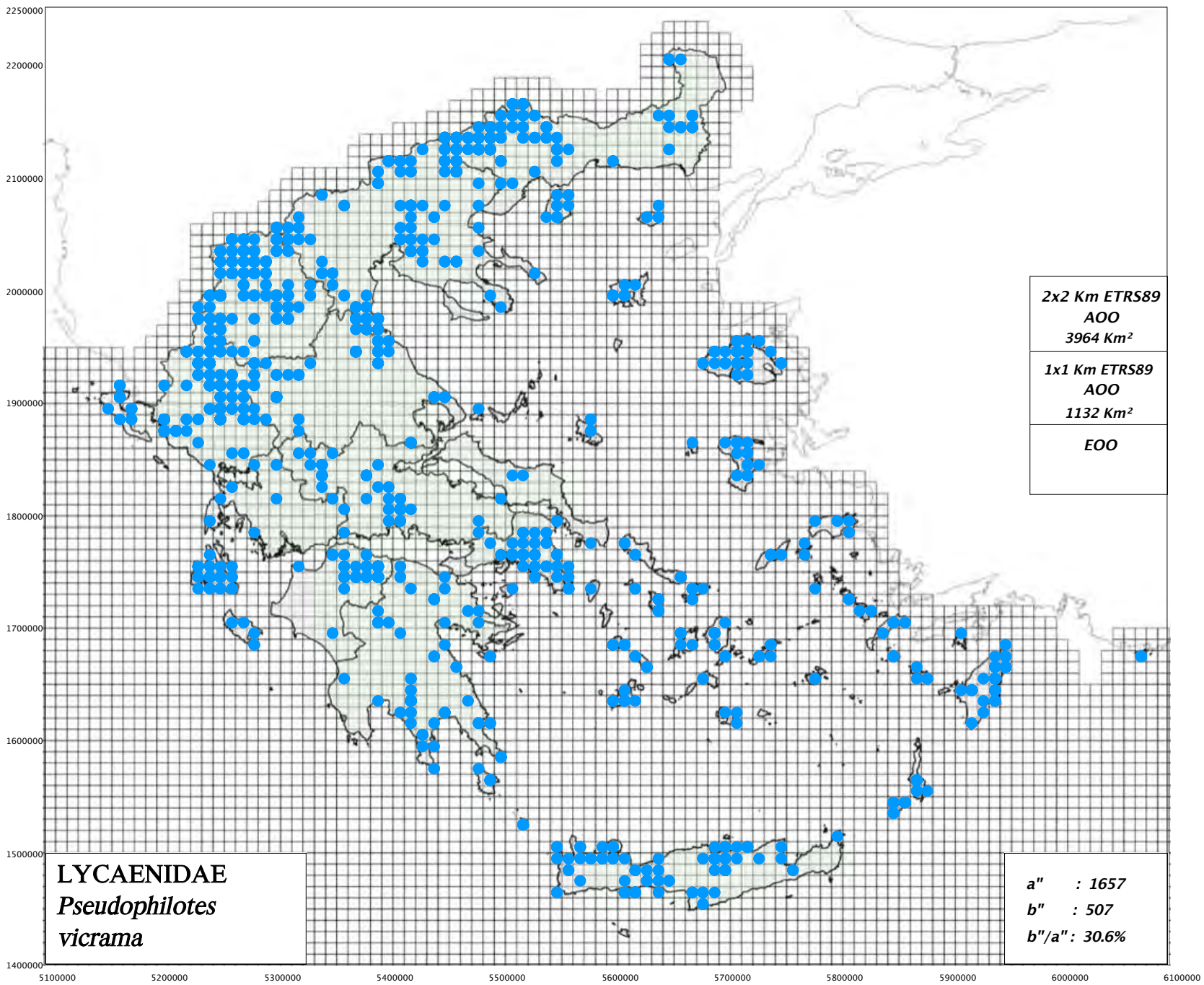




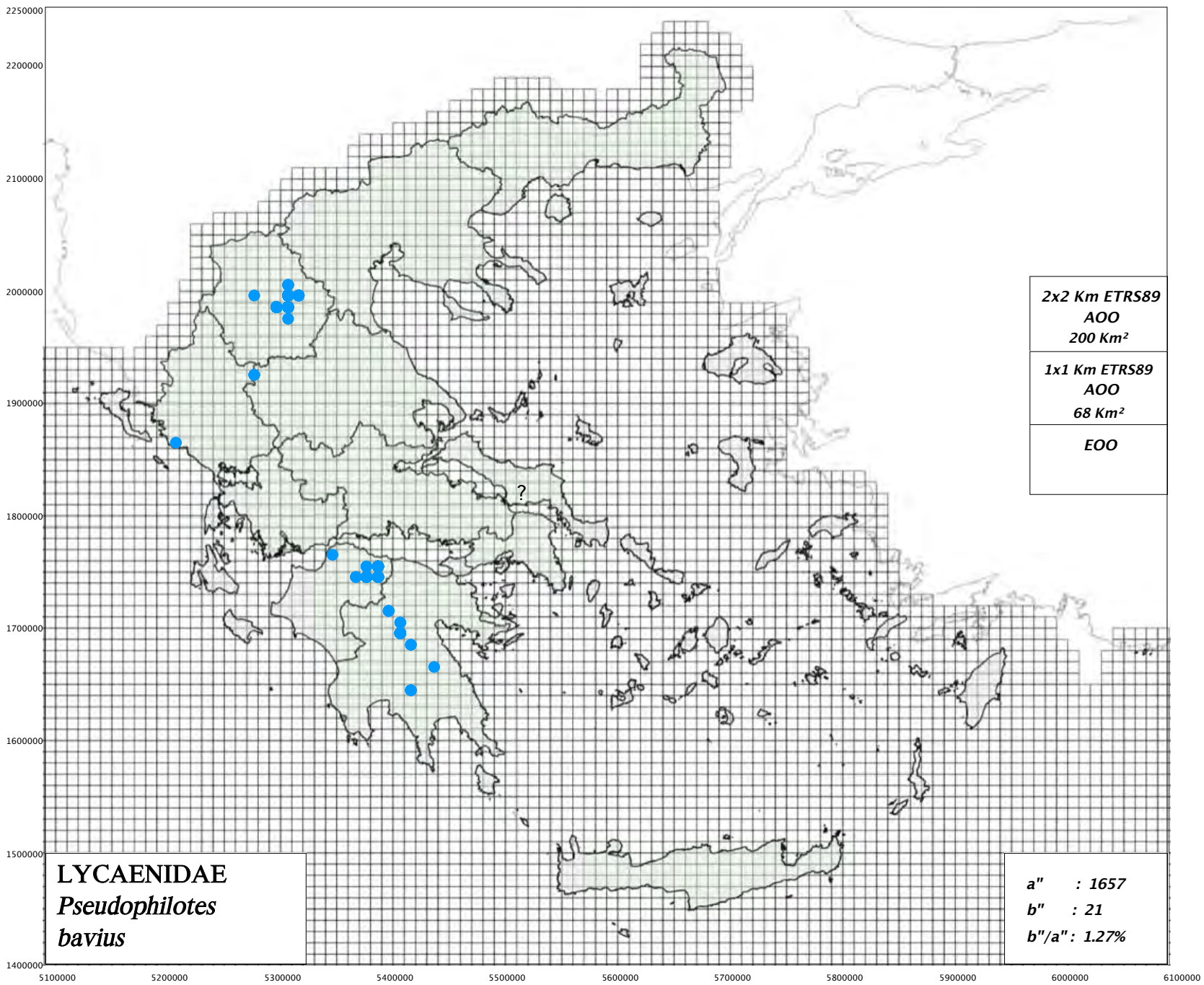


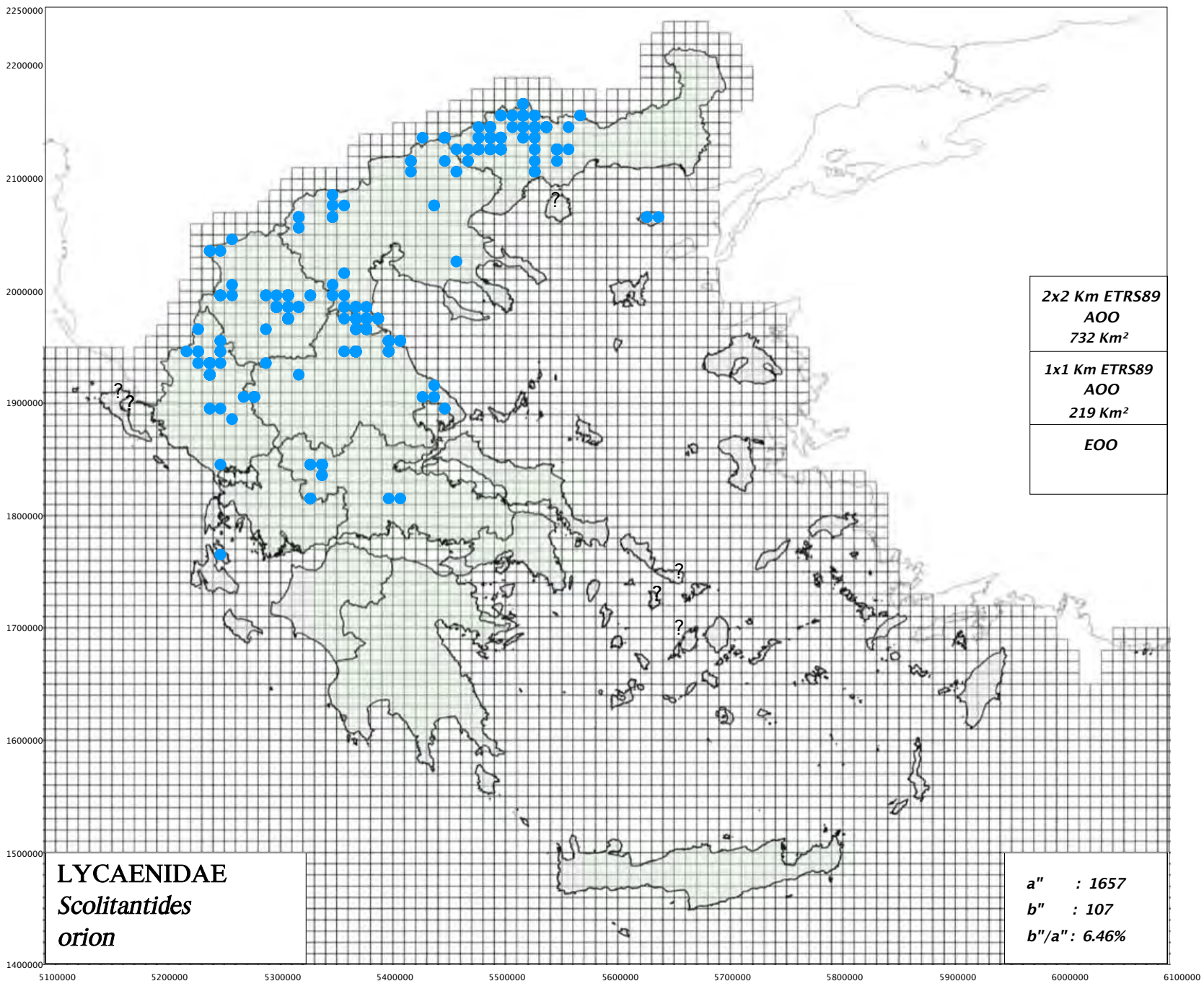




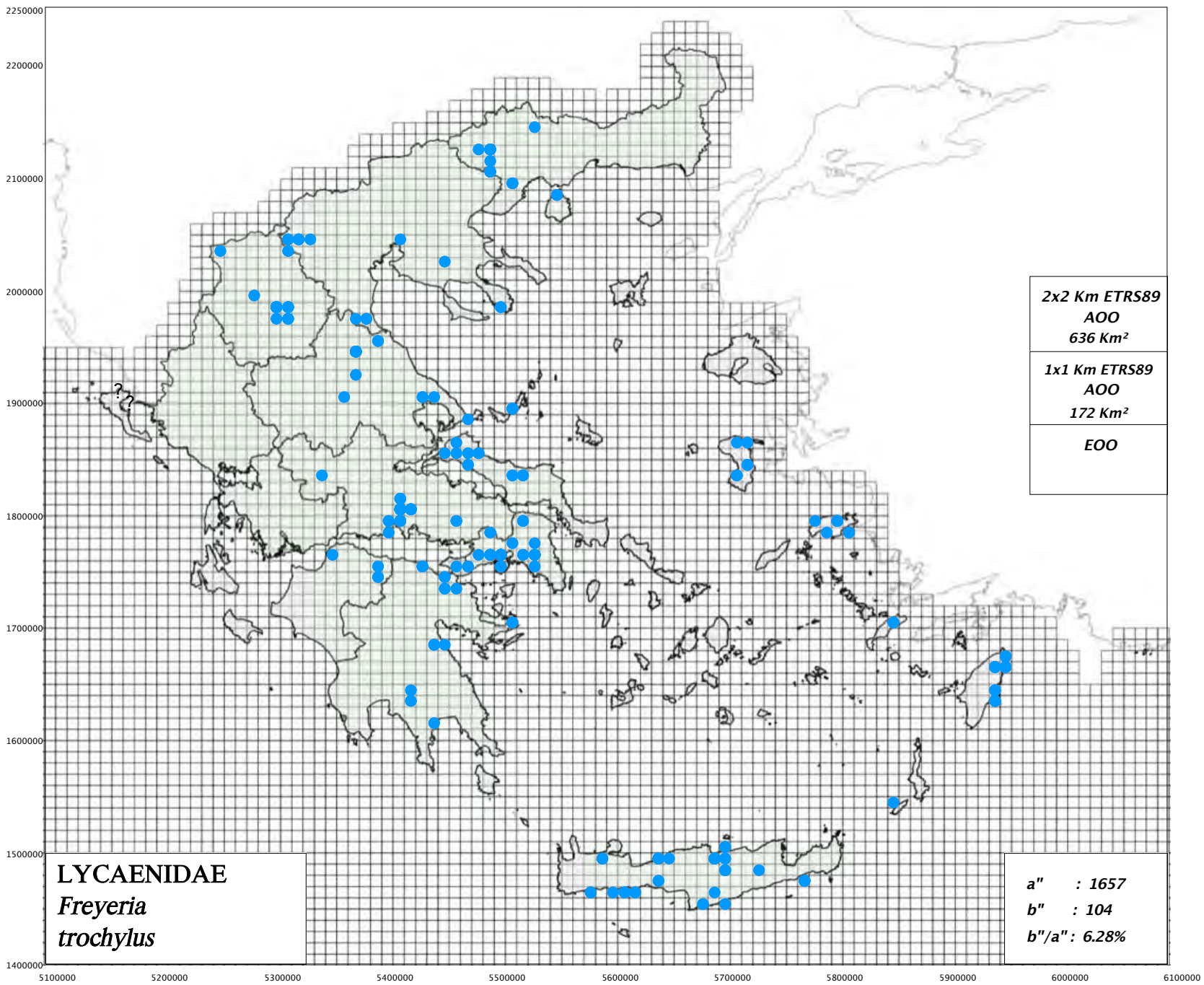


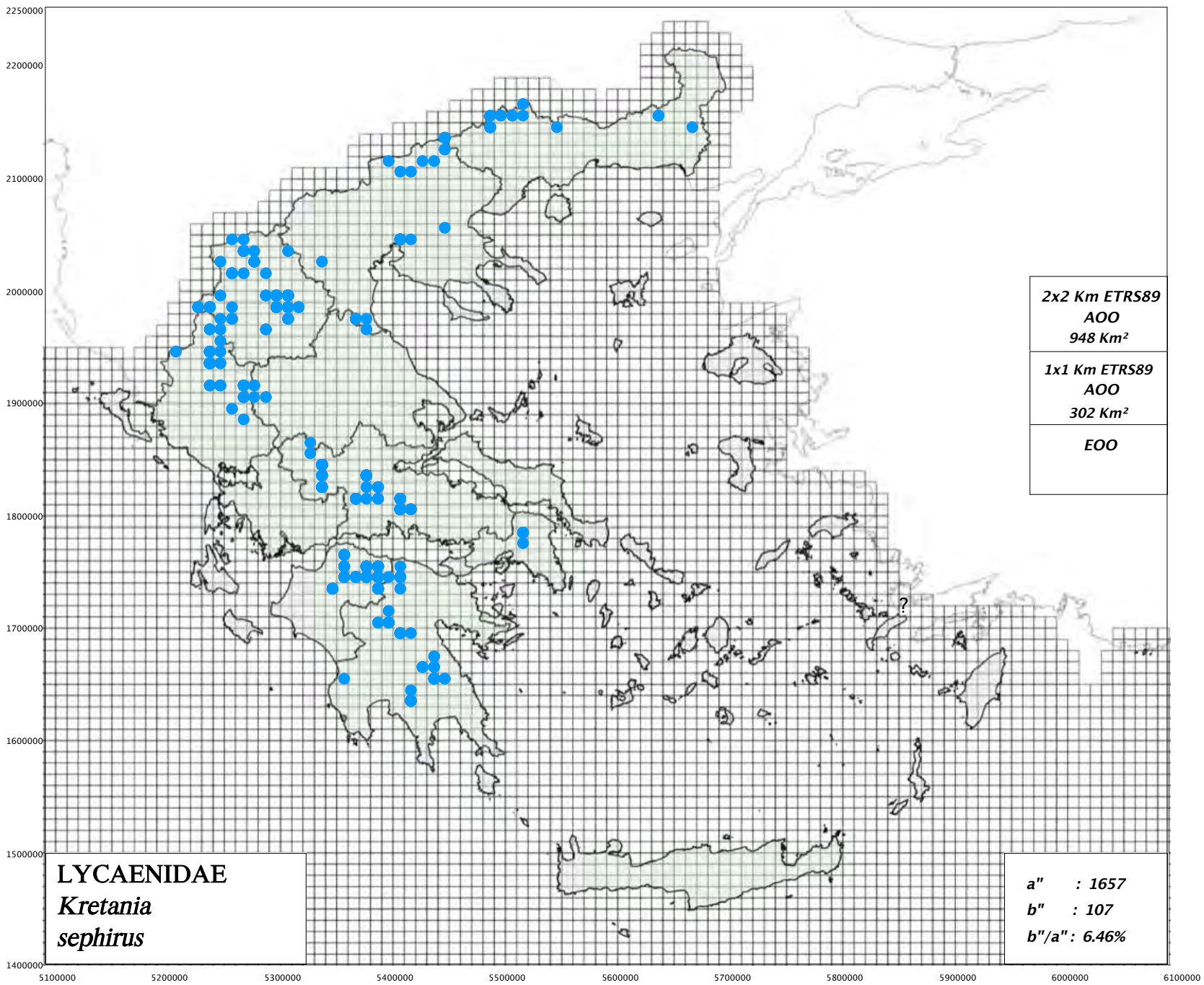




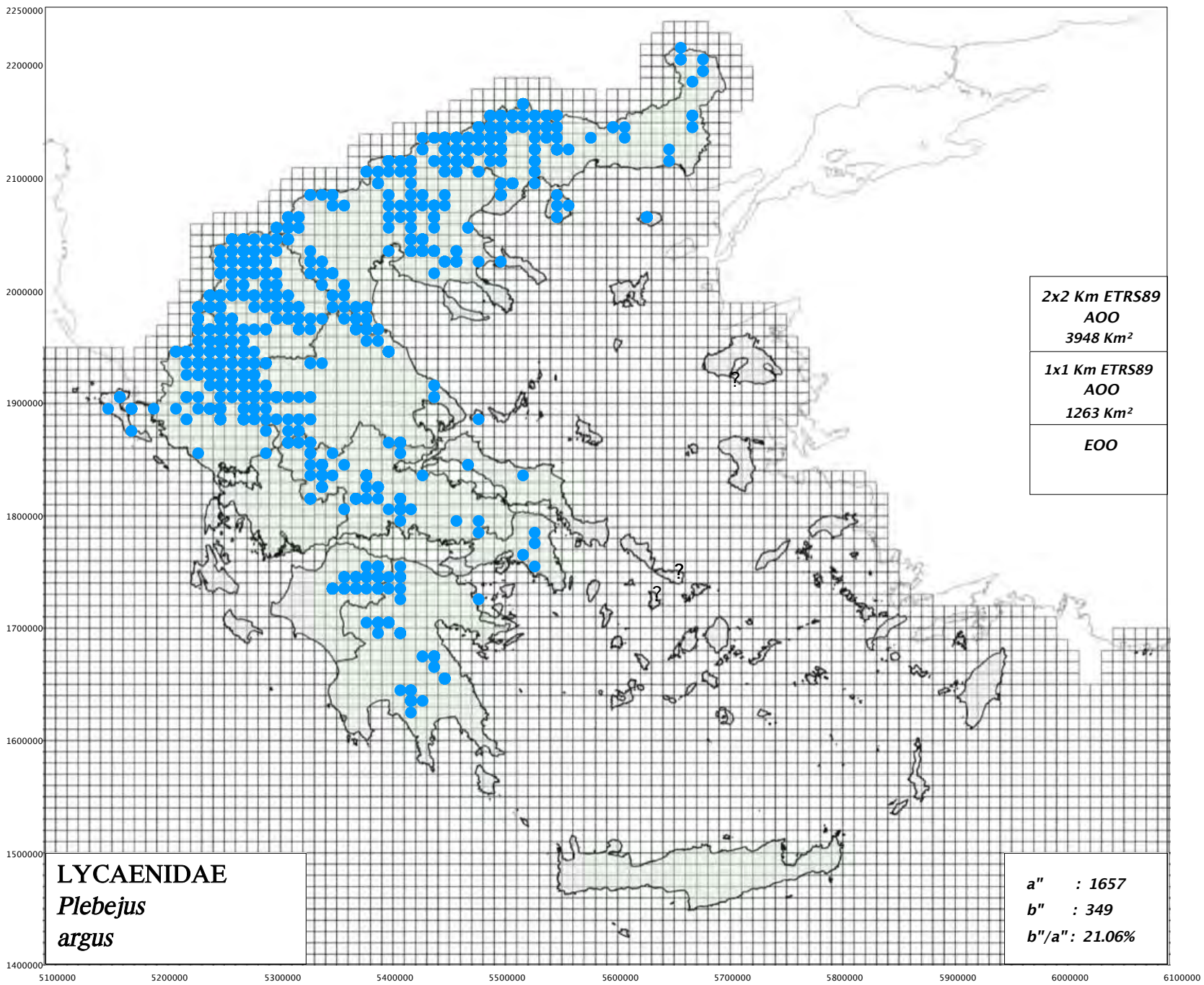




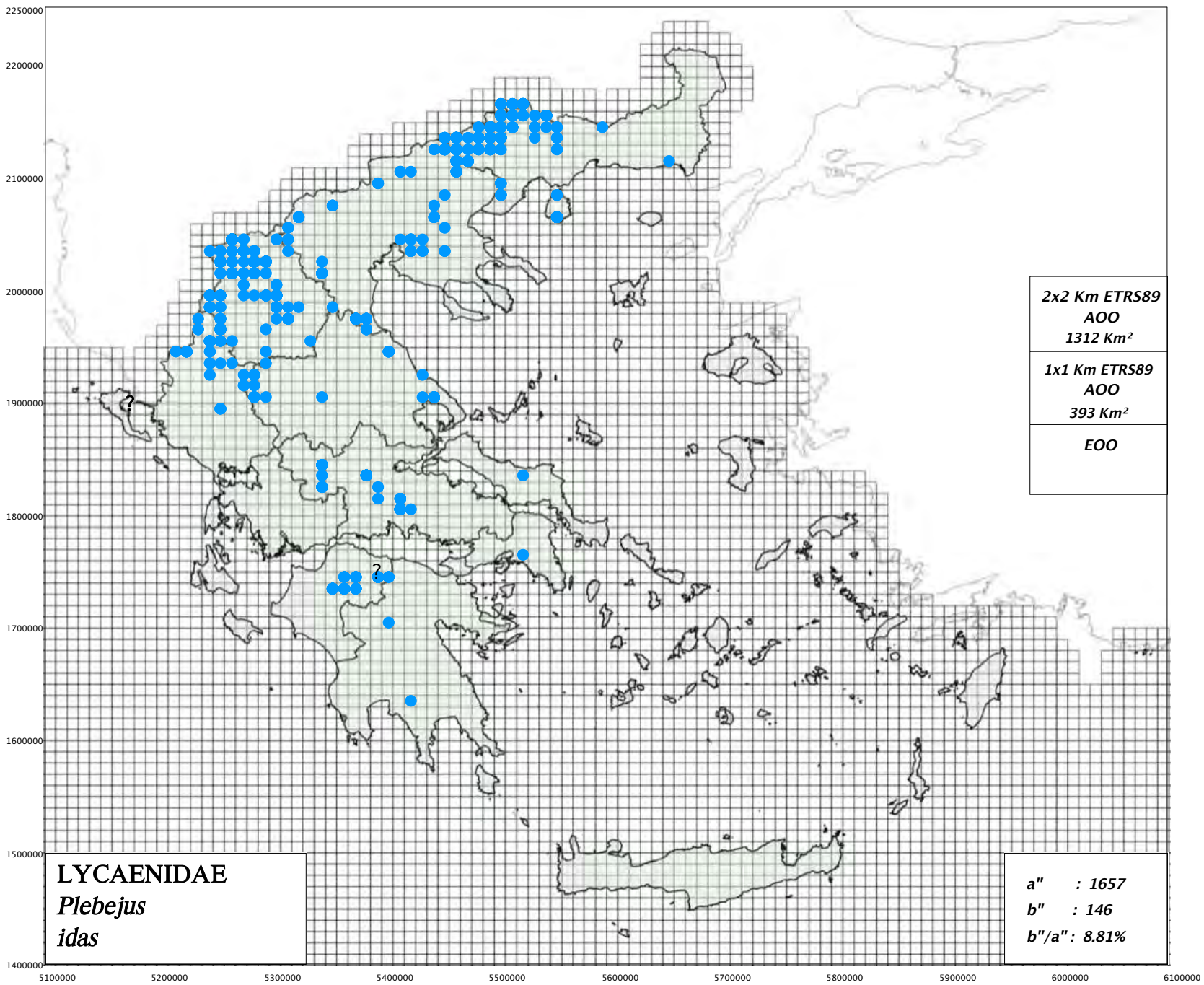






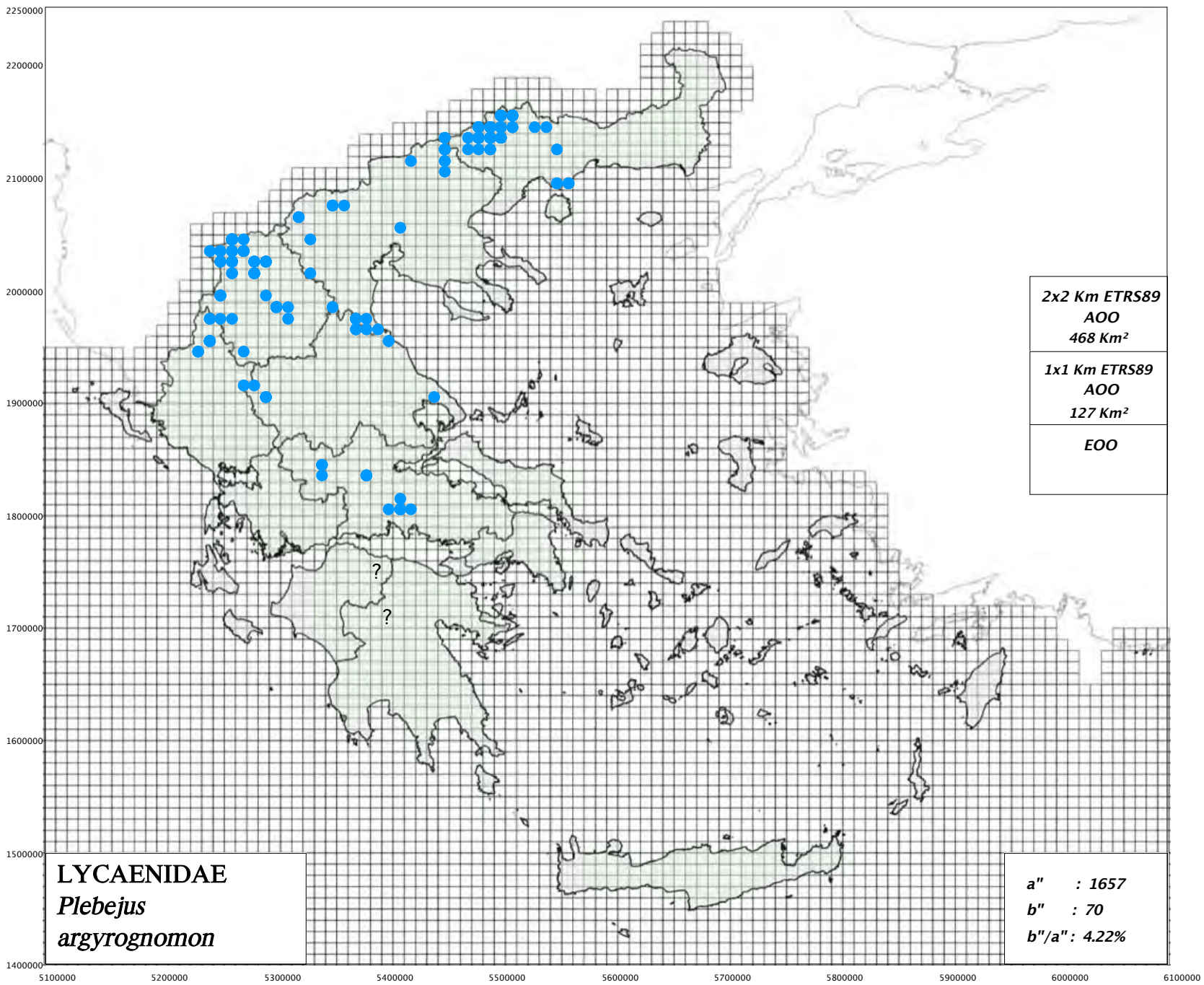


<https://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

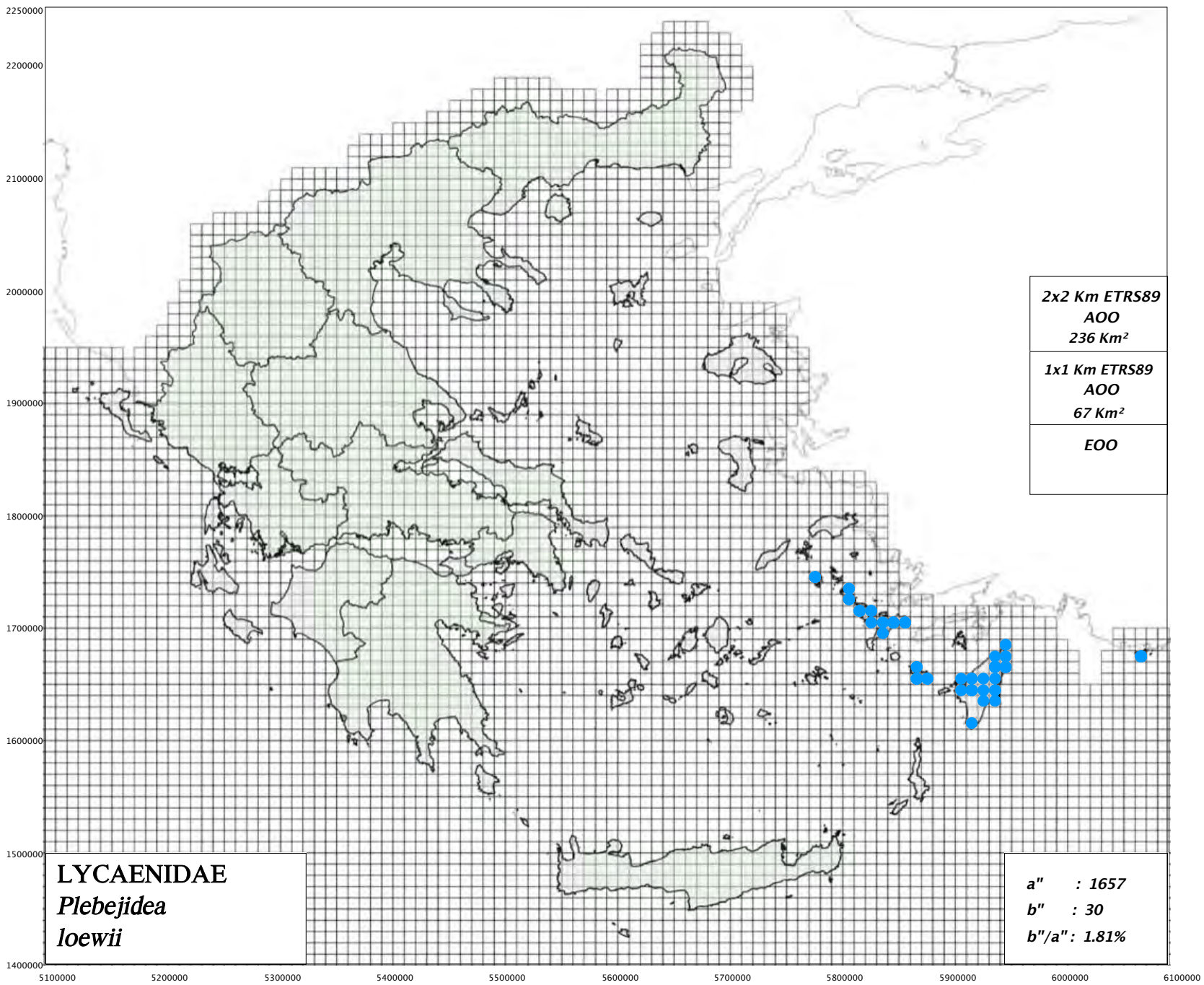


<https://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>



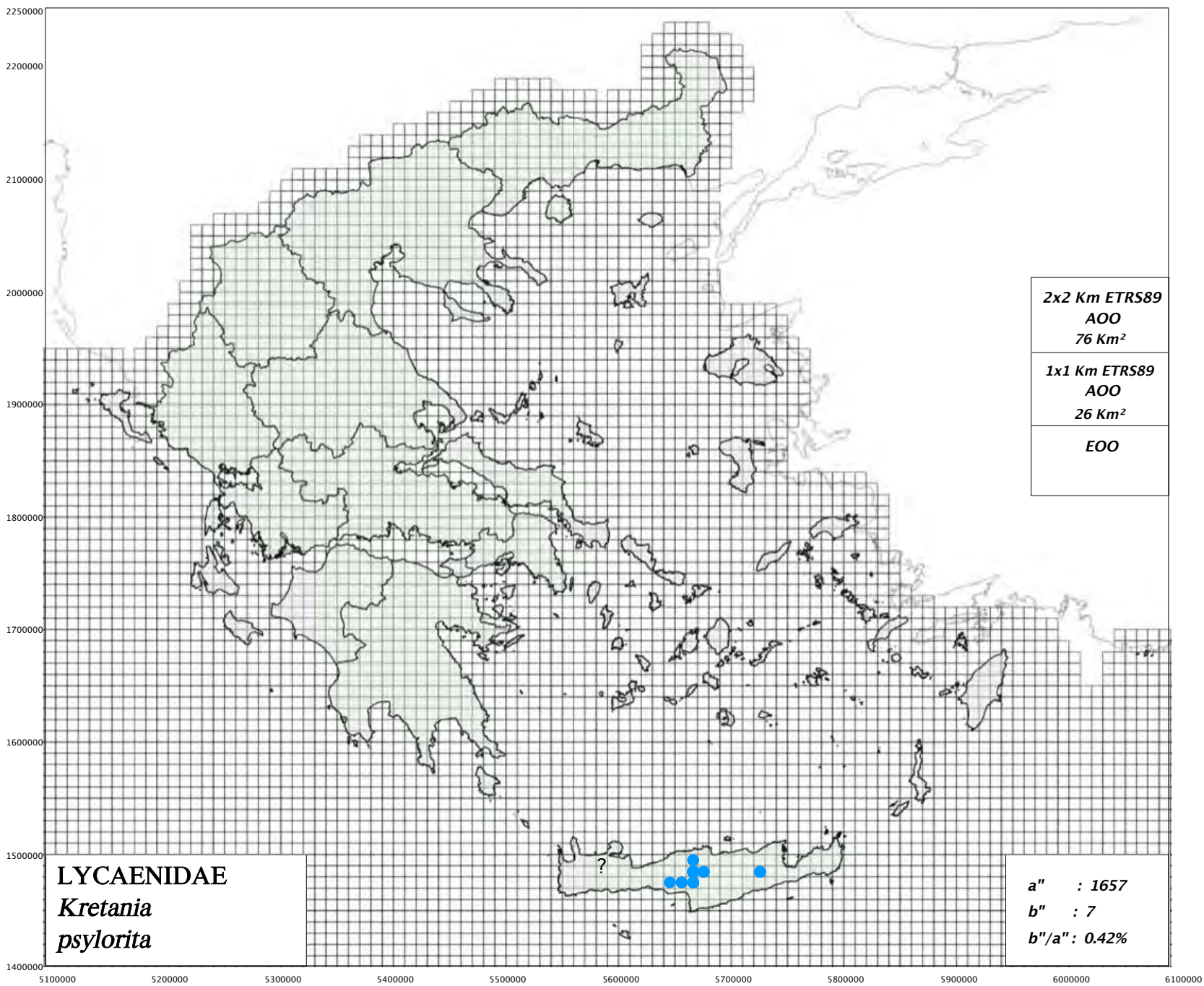


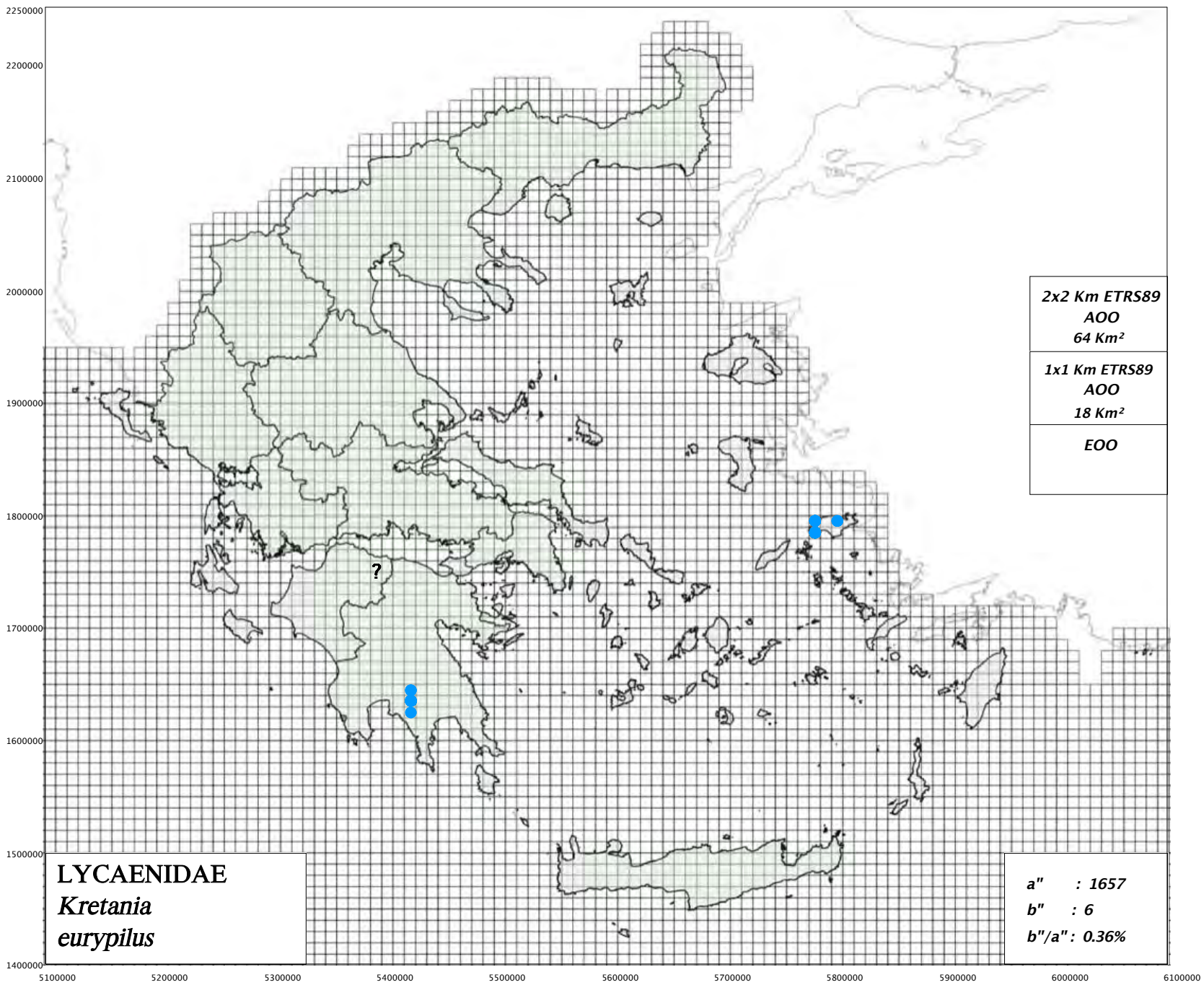
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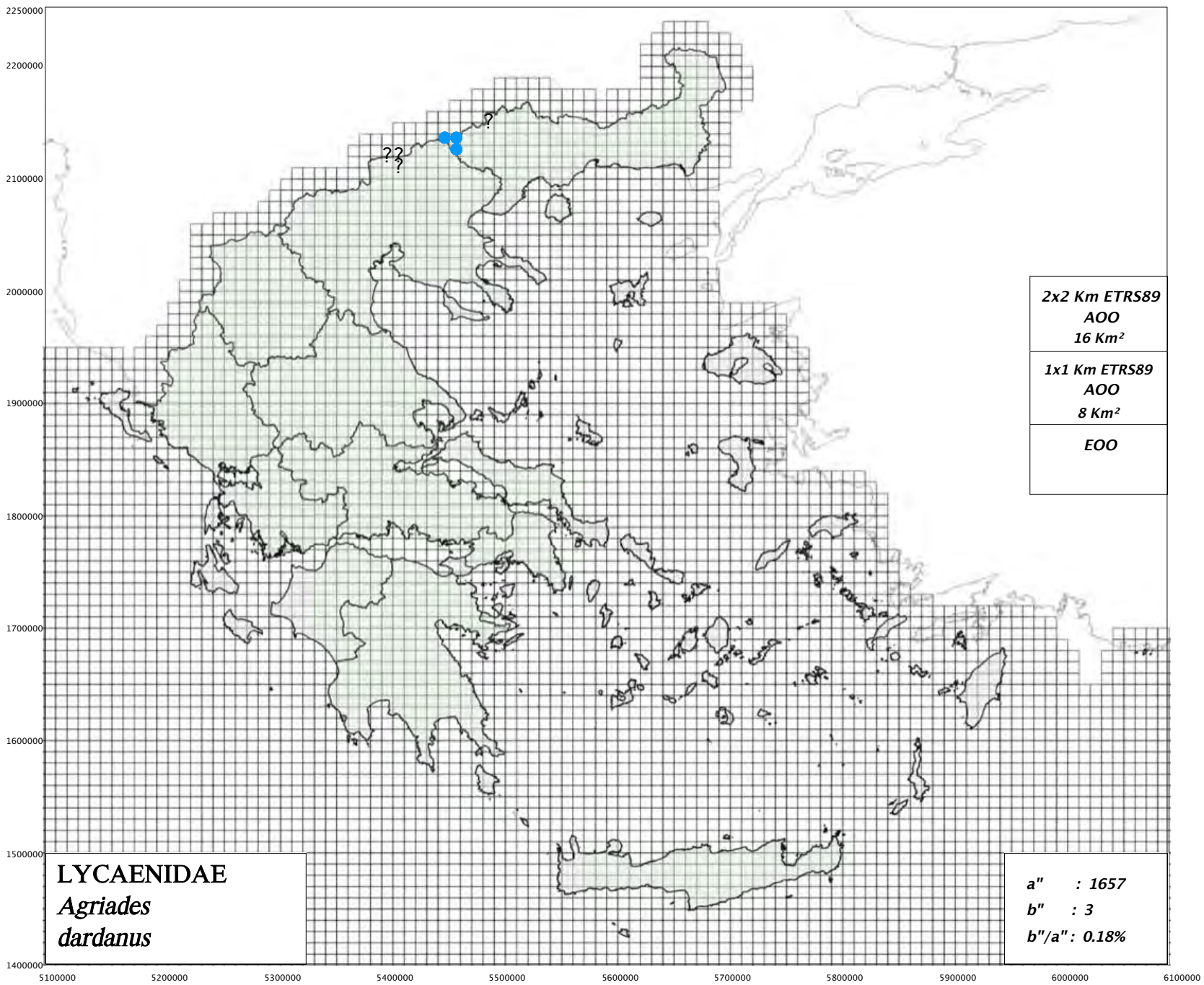


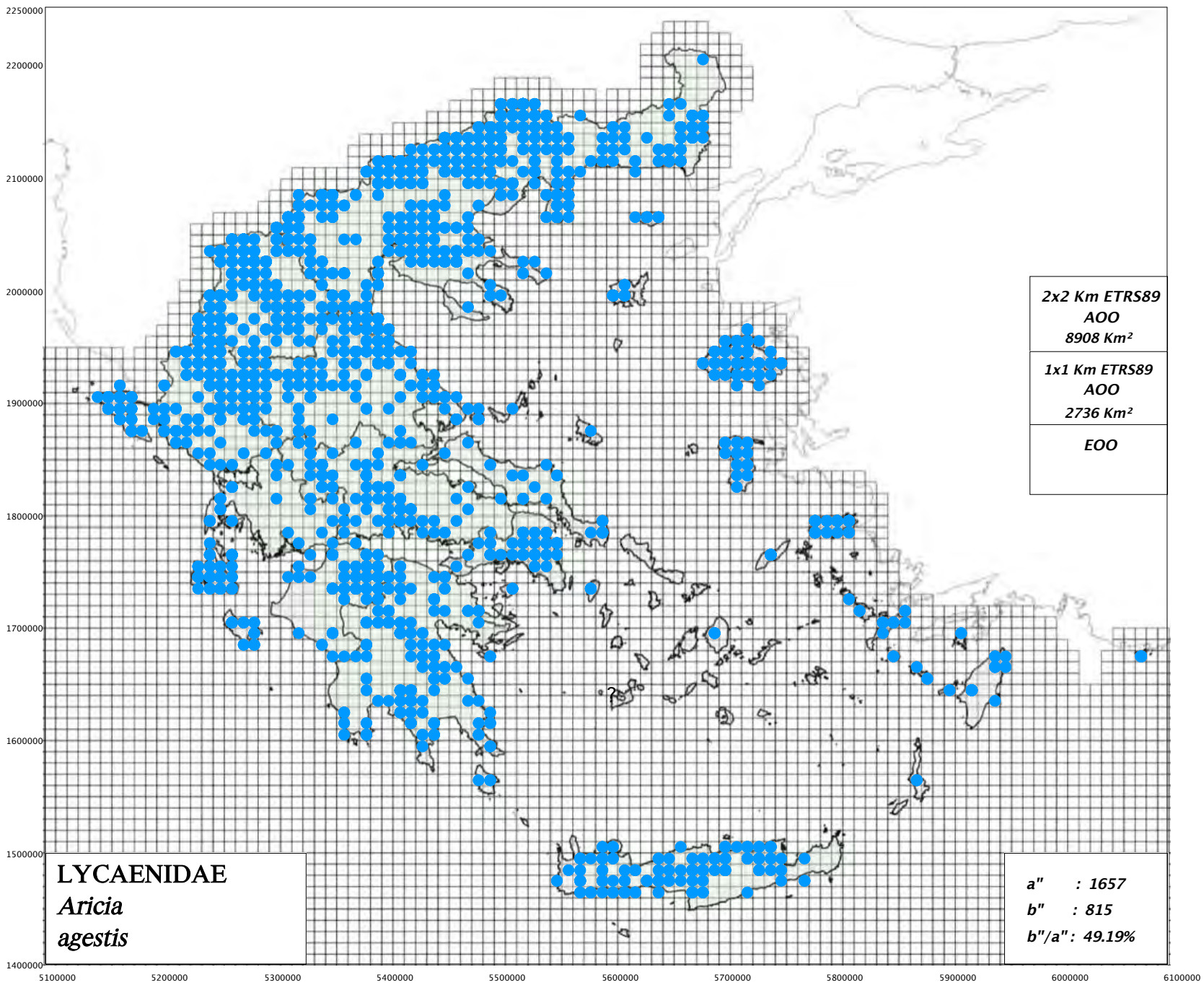
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE





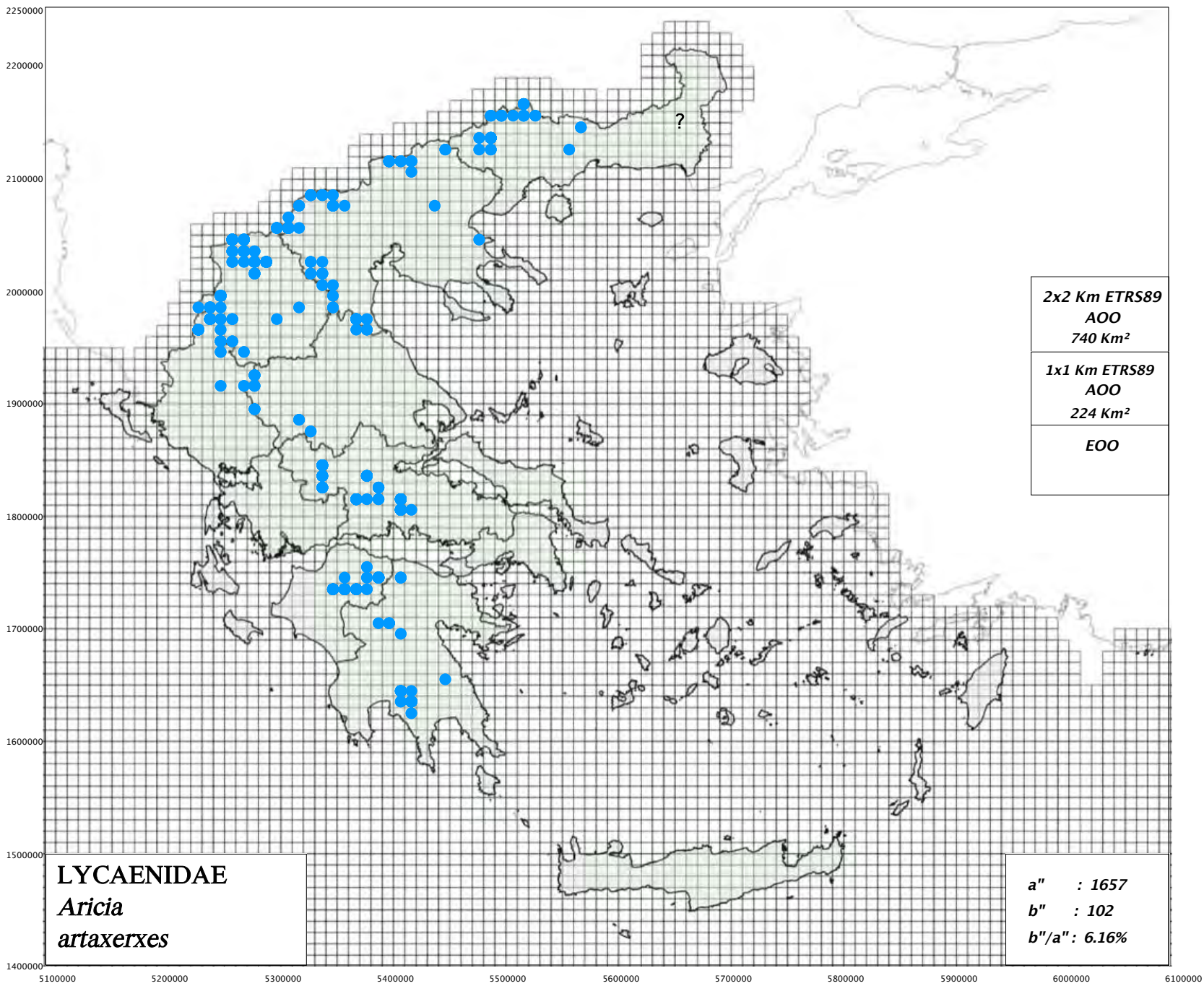




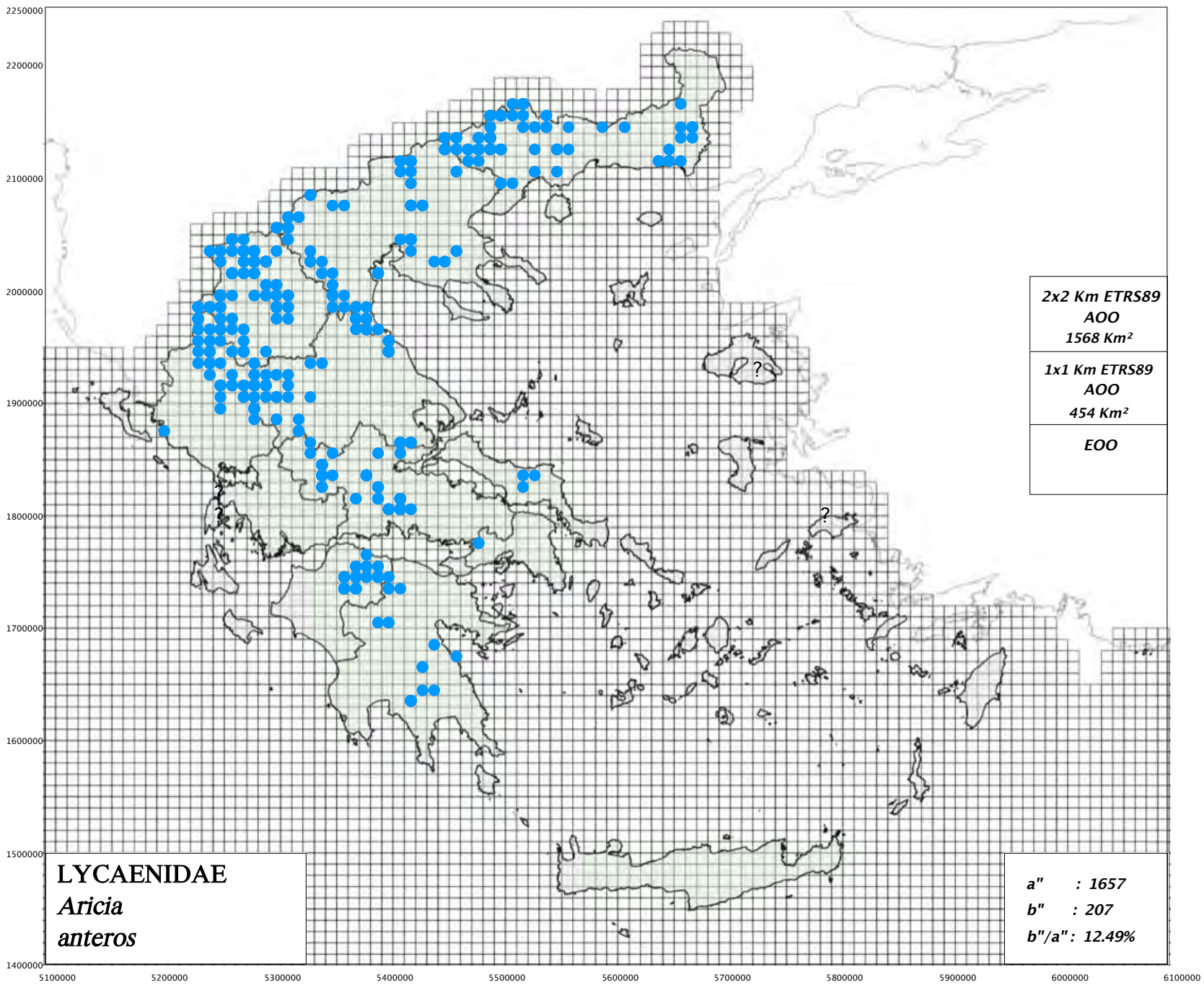


[https://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agemtis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](https://www.pamperis.gr/PHOTOGRAPHS/Aricia_agemtis,_Aricia_artaxerxes,_Aricia_anteros.html)



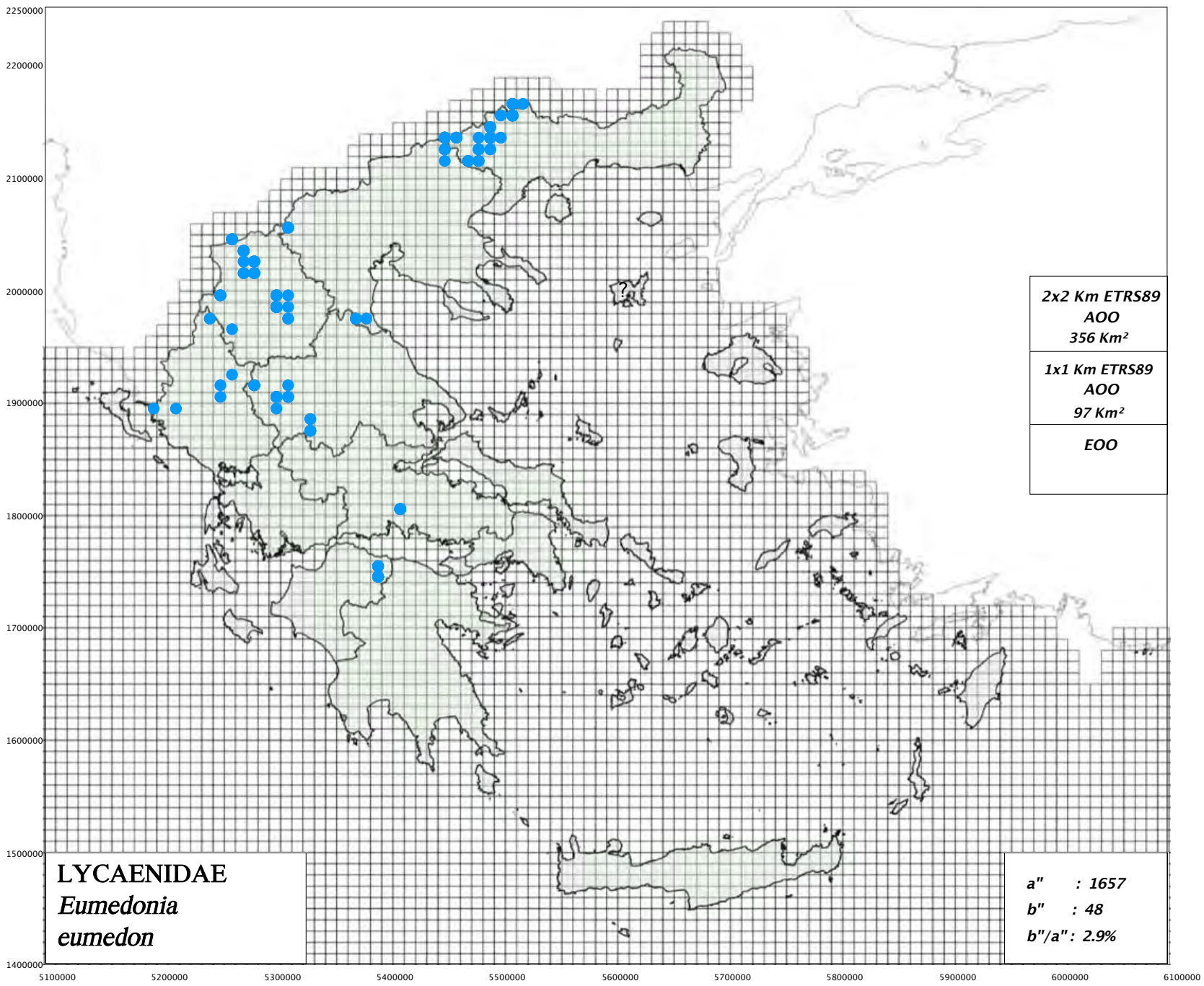


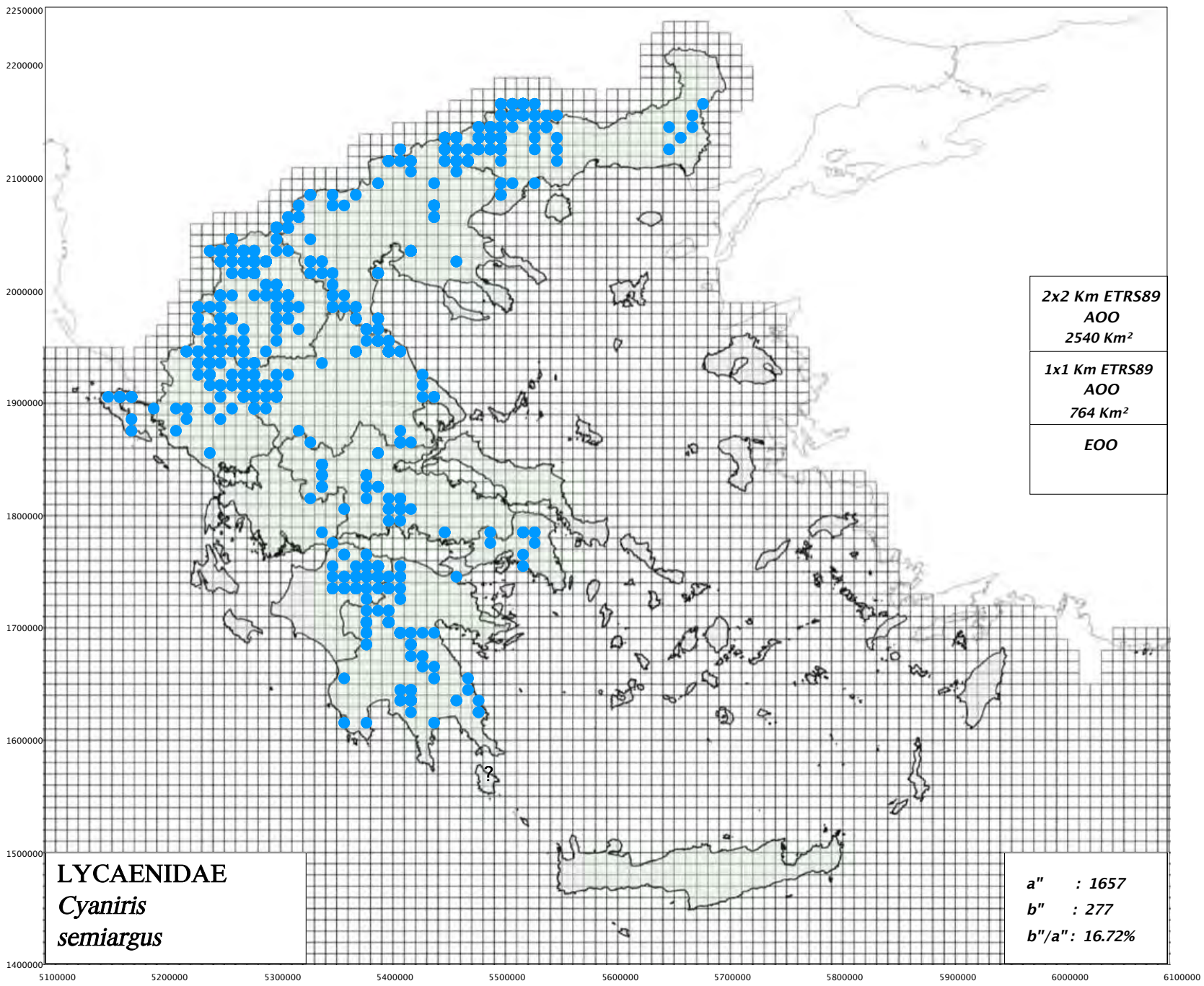
[https://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agemis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](https://www.pamperis.gr/PHOTOGRAPHS/Aricia_agemis,_Aricia_artaxerxes,_Aricia_anteros.html)



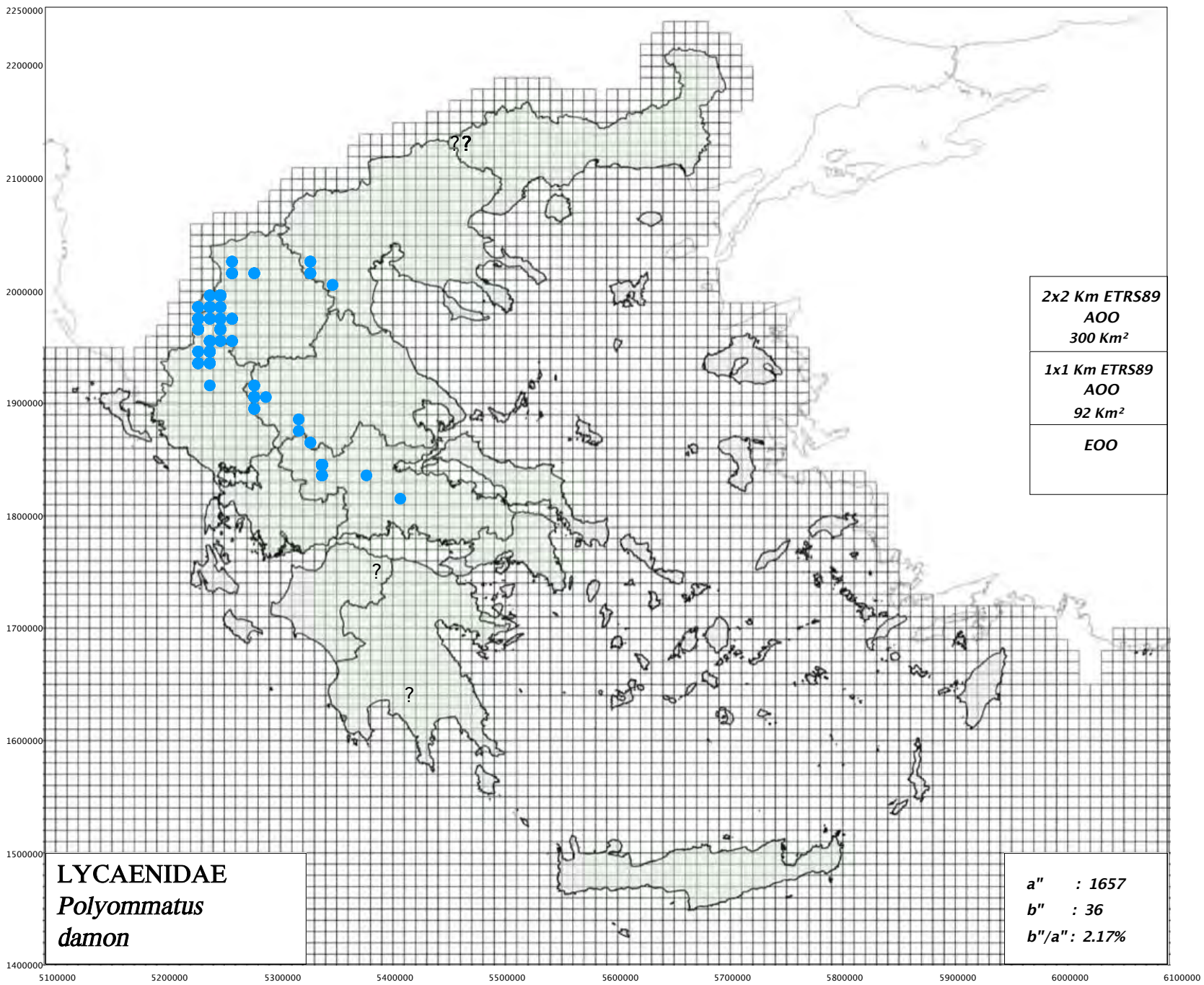
[https://www.pamperis.gr/PHOTOGRAPHS/Aricia\\_agestis,\\_Aricia\\_artaxerxes,\\_Aricia\\_anteros.html](https://www.pamperis.gr/PHOTOGRAPHS/Aricia_agestis,_Aricia_artaxerxes,_Aricia_anteros.html)

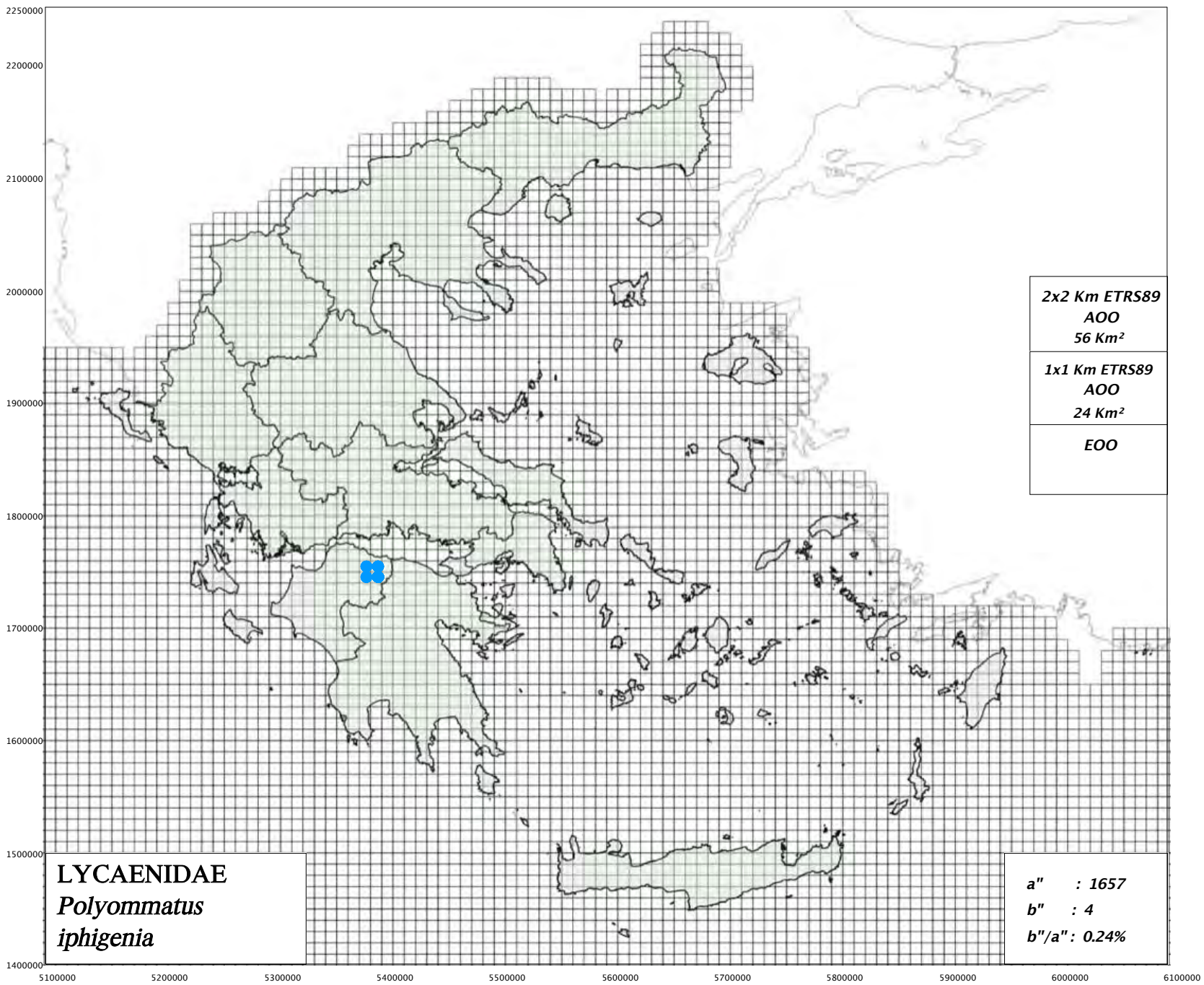




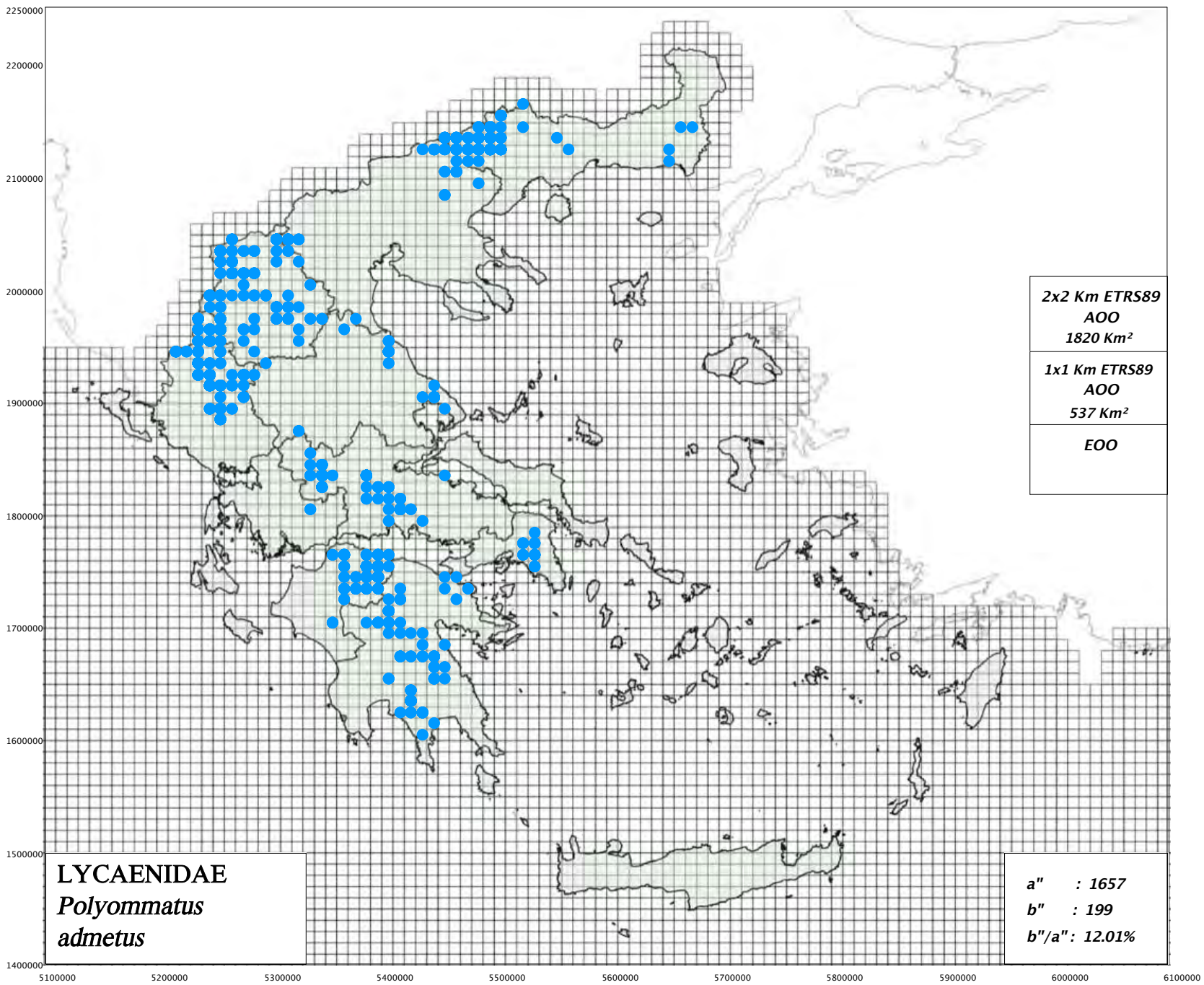


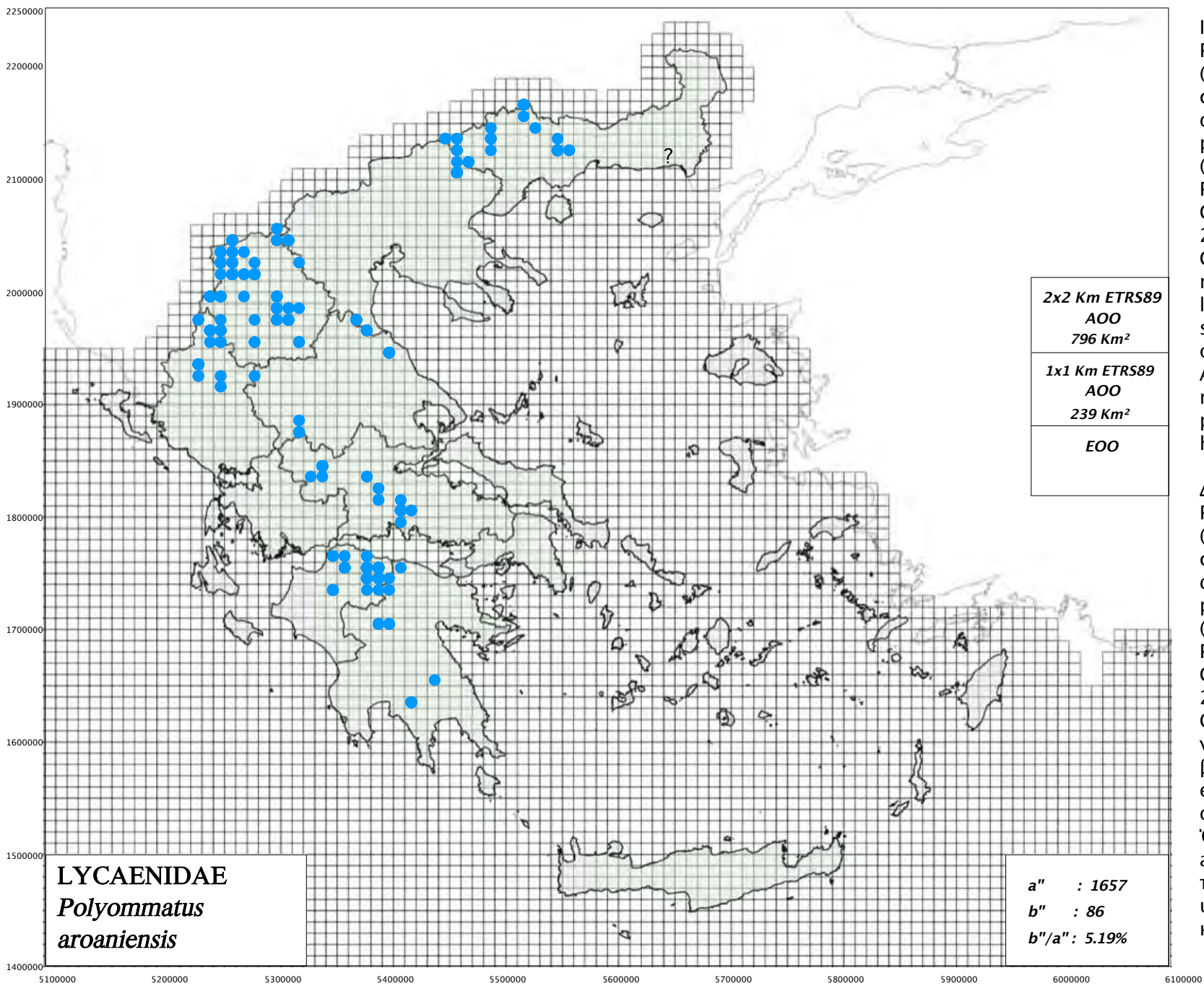








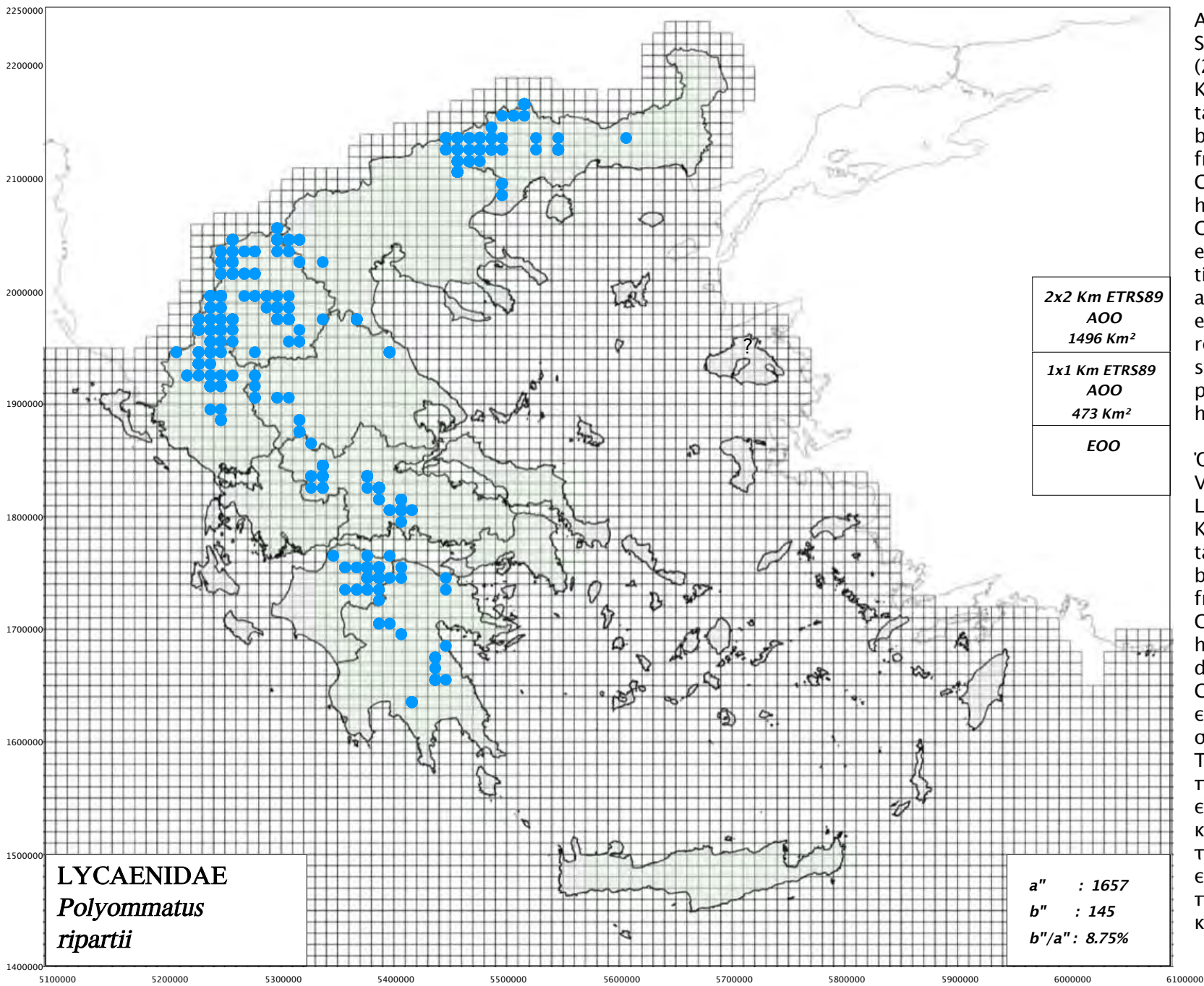




It was published recently [by Parmentier L, Vila R, Lukhtanov V (2022) Integrative analysis reveals cryptic speciation linked to habitat differentiation within Albanian populations of the anomalous blues (Lepidoptera, Lycaenidae, *Polyommatus* Latreille, 1804). Comparative Cytogenetics 16(4): 211-242. <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.

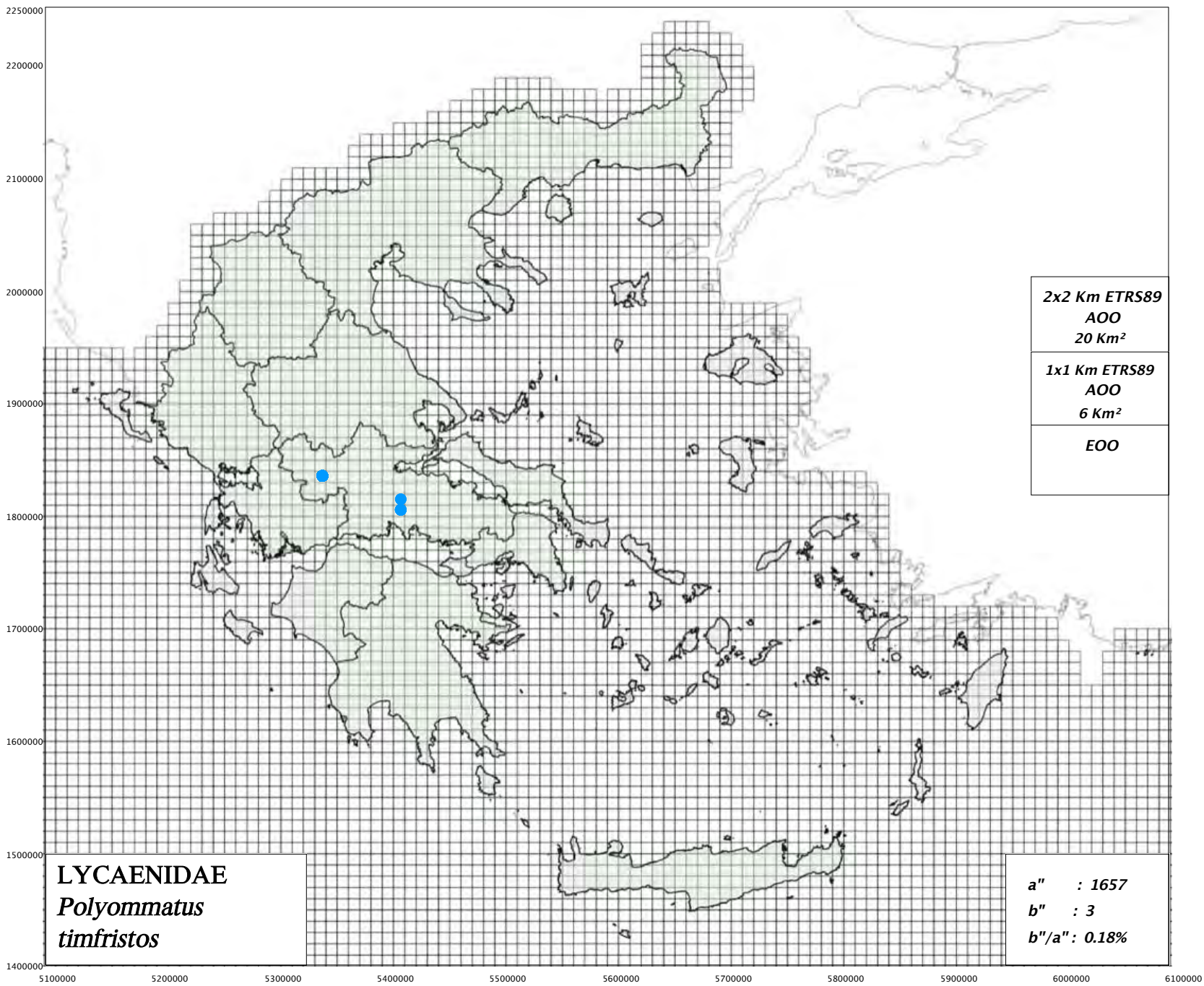
Δημοσιεύθηκε πρόσφατα [στο Parmentier L, Vila R, Lukhtanov V (2022) Integrative analysis reveals cryptic speciation linked to habitat differentiation within Albanian populations of the anomalous blues (Lepidoptera, Lycaenidae, *Polyommatus* Latreille, 1804). Comparative Cytogenetics 16(4): 211-242. <https://doi.org/10.3897/CompCytogen.v16.i4.90558>] 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.



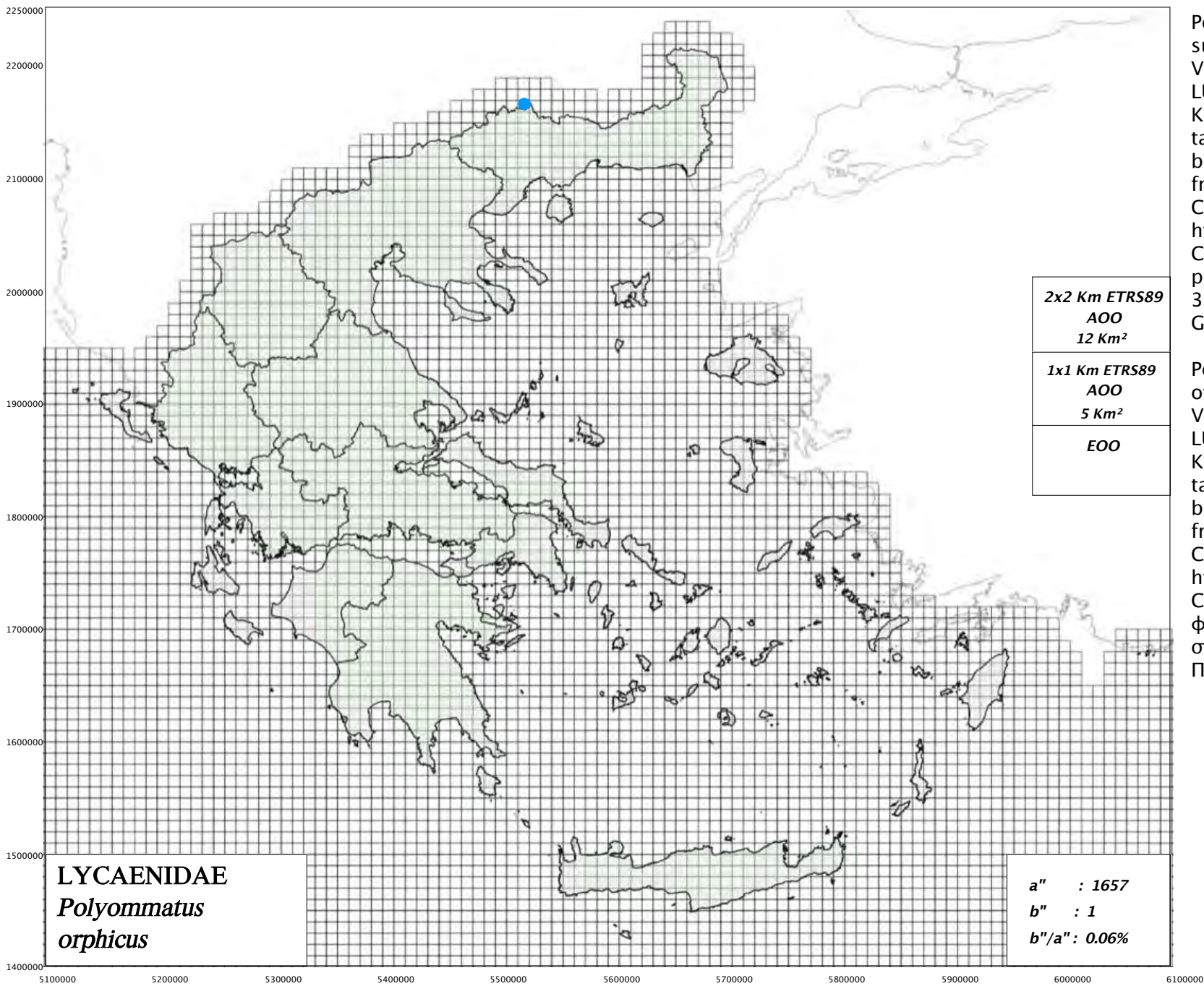


As published by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016):  
 Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>, the new endemic 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.



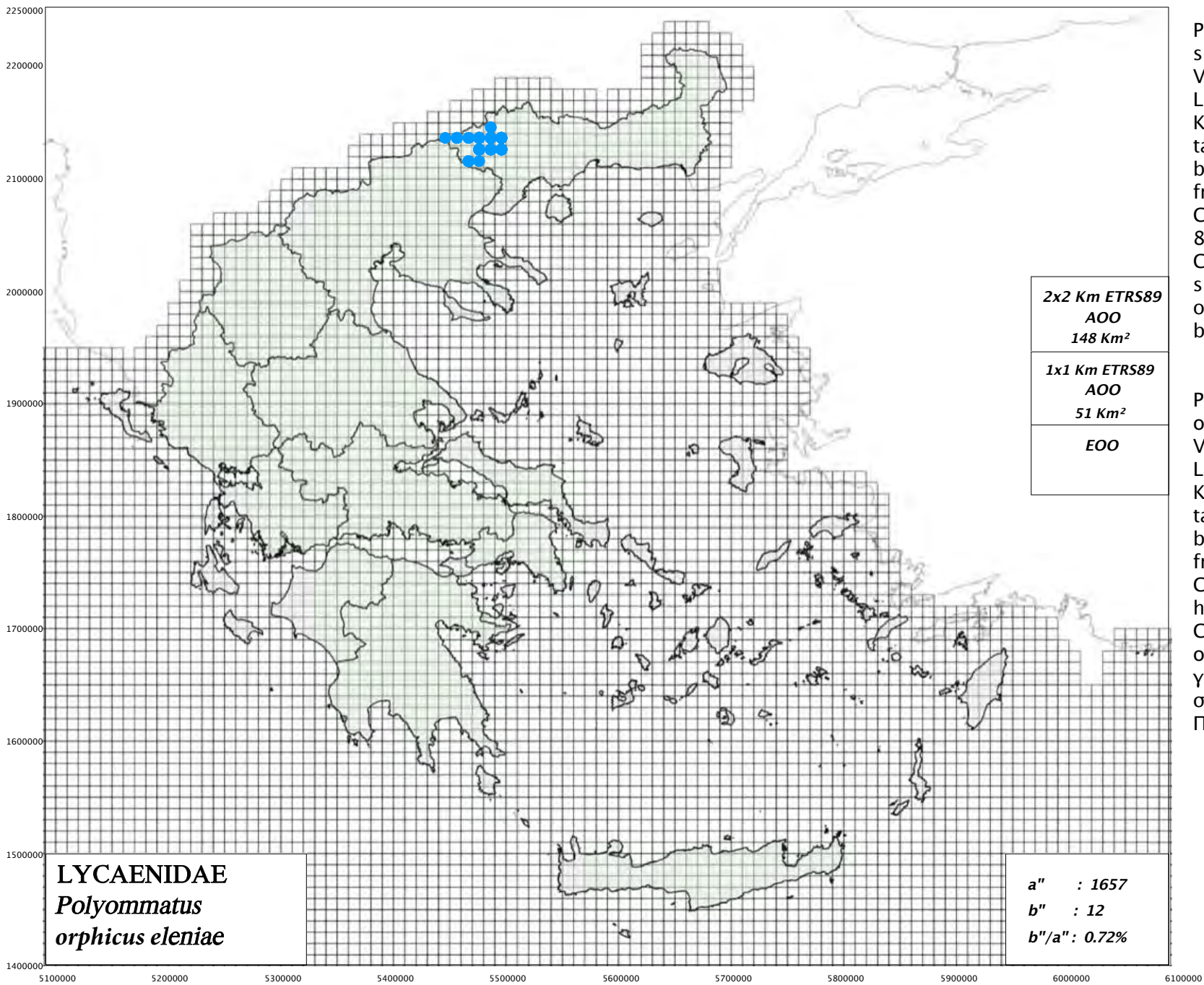




*Polyommatus orphicus eleniae*, a new subspecies as suggested by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>. See photos of *P. orphicus* in pages 310-313 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>. Δείτε για φωτογραφίες του *P. orphicus*, στις σελίδες 310-313 του βιβλίου Οι Πεταλούδες της Ελλάδας (2009).

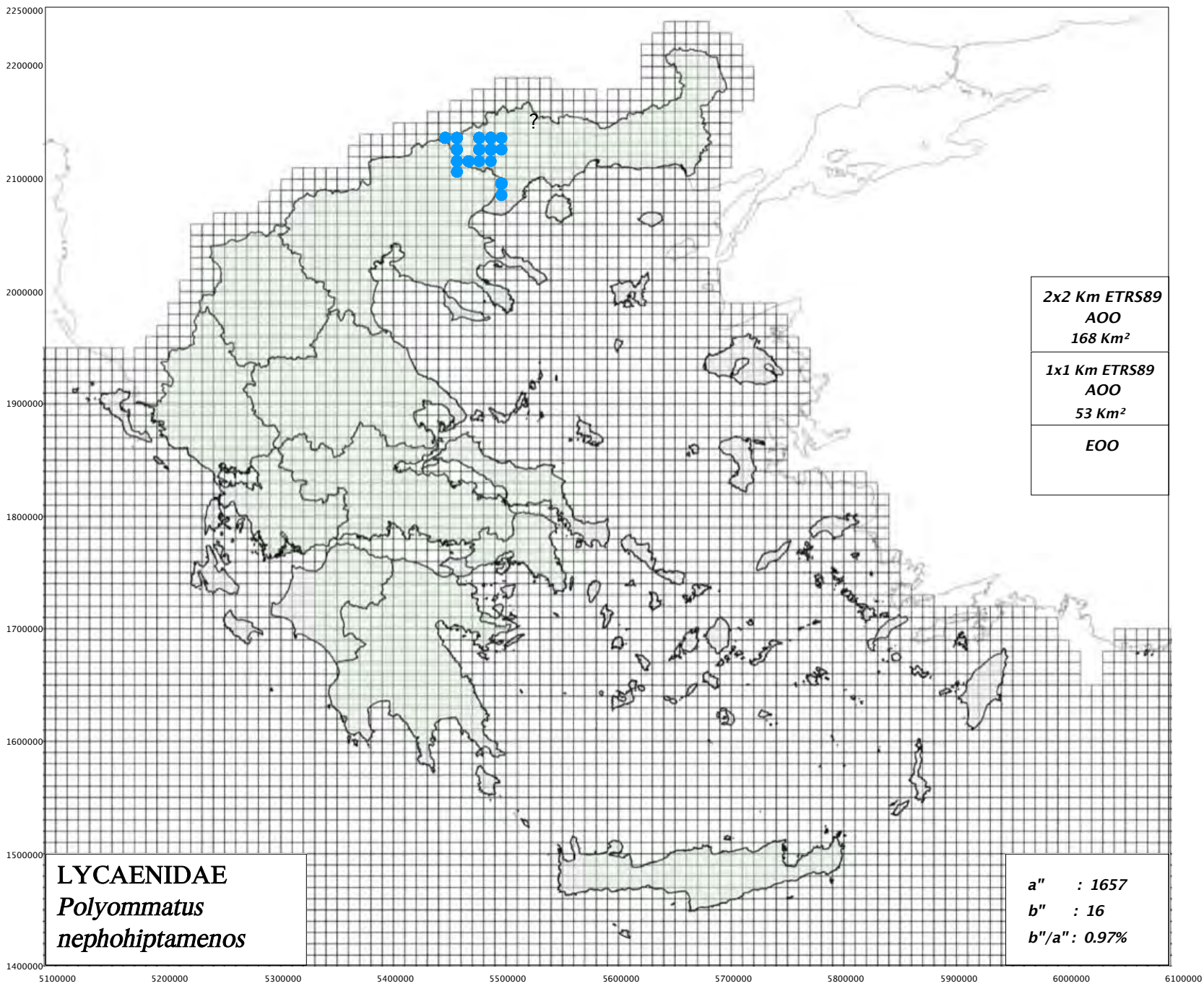


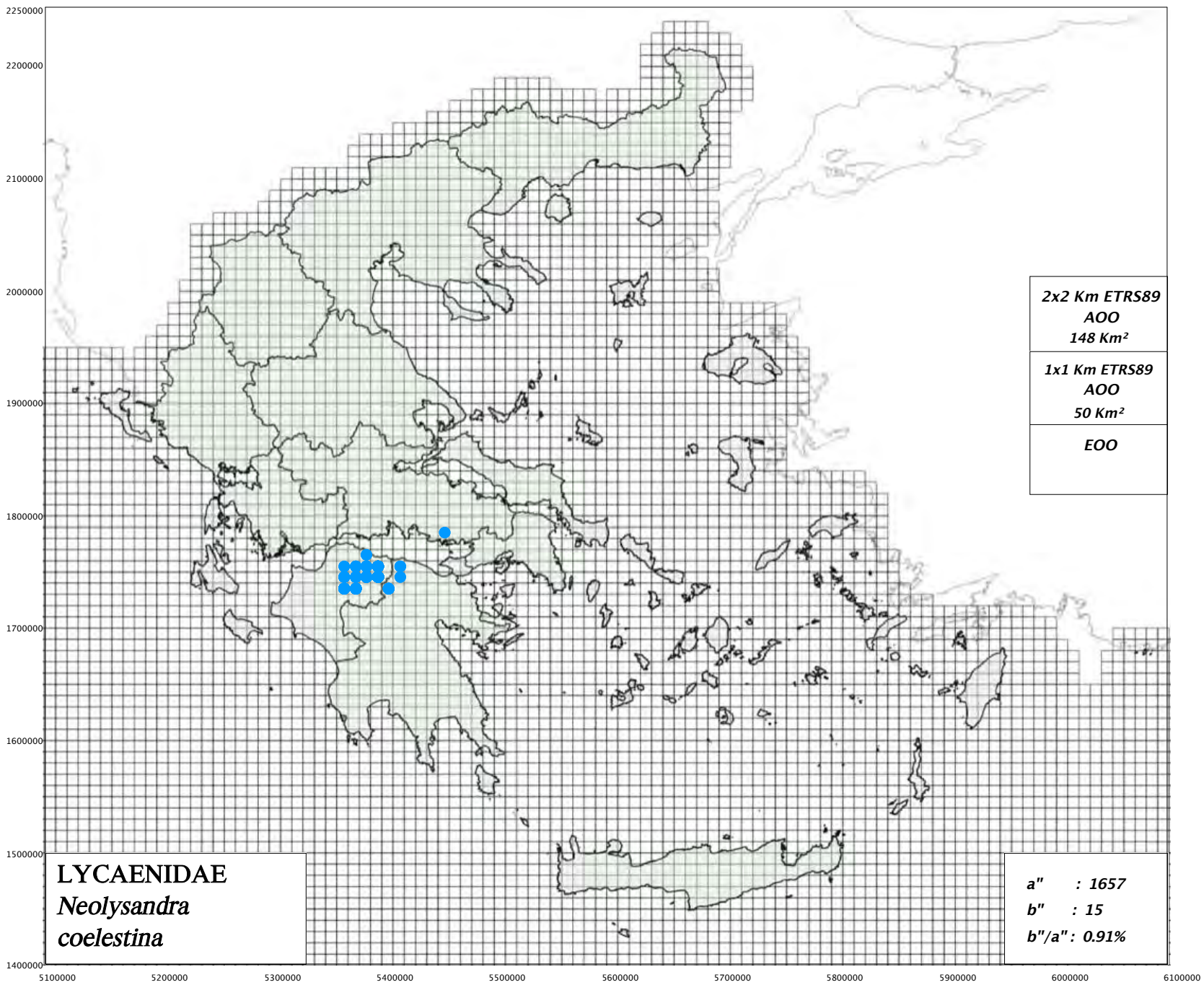


*Polyommatus orphicus eleniae*, a new subspecies as suggested by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>.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

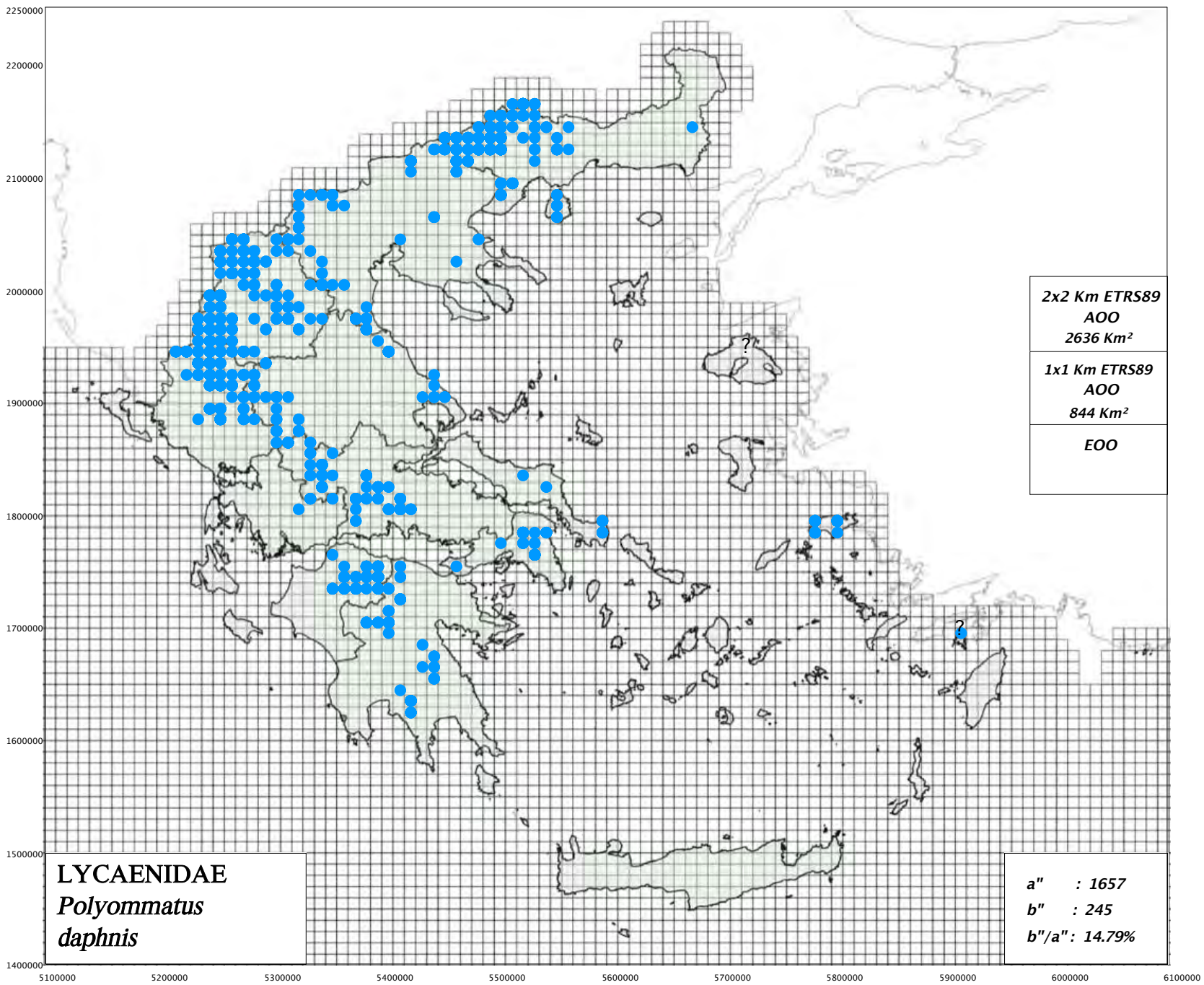
*Polyommatus orphicus eleniae*, το οποίο έχει προταθεί με το VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>. Μεγάλη ομοιότητα με το *P. aroaniensis*. Δείτε για φωτογραφίες του *P. eleniae*, στις σελίδες 296-297 του βιβλίου Οι Πεταλούδες της Ελλάδας (2009).

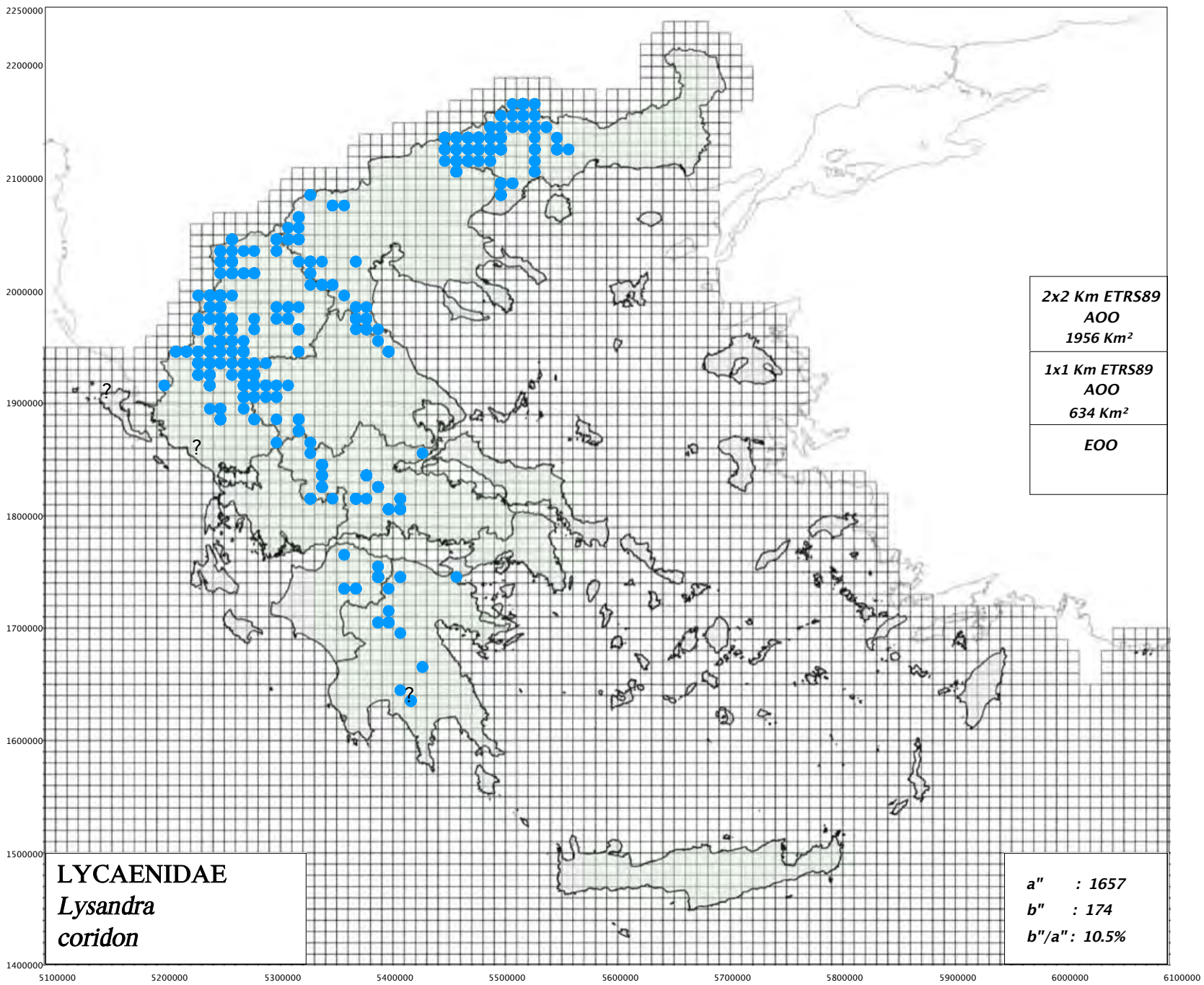




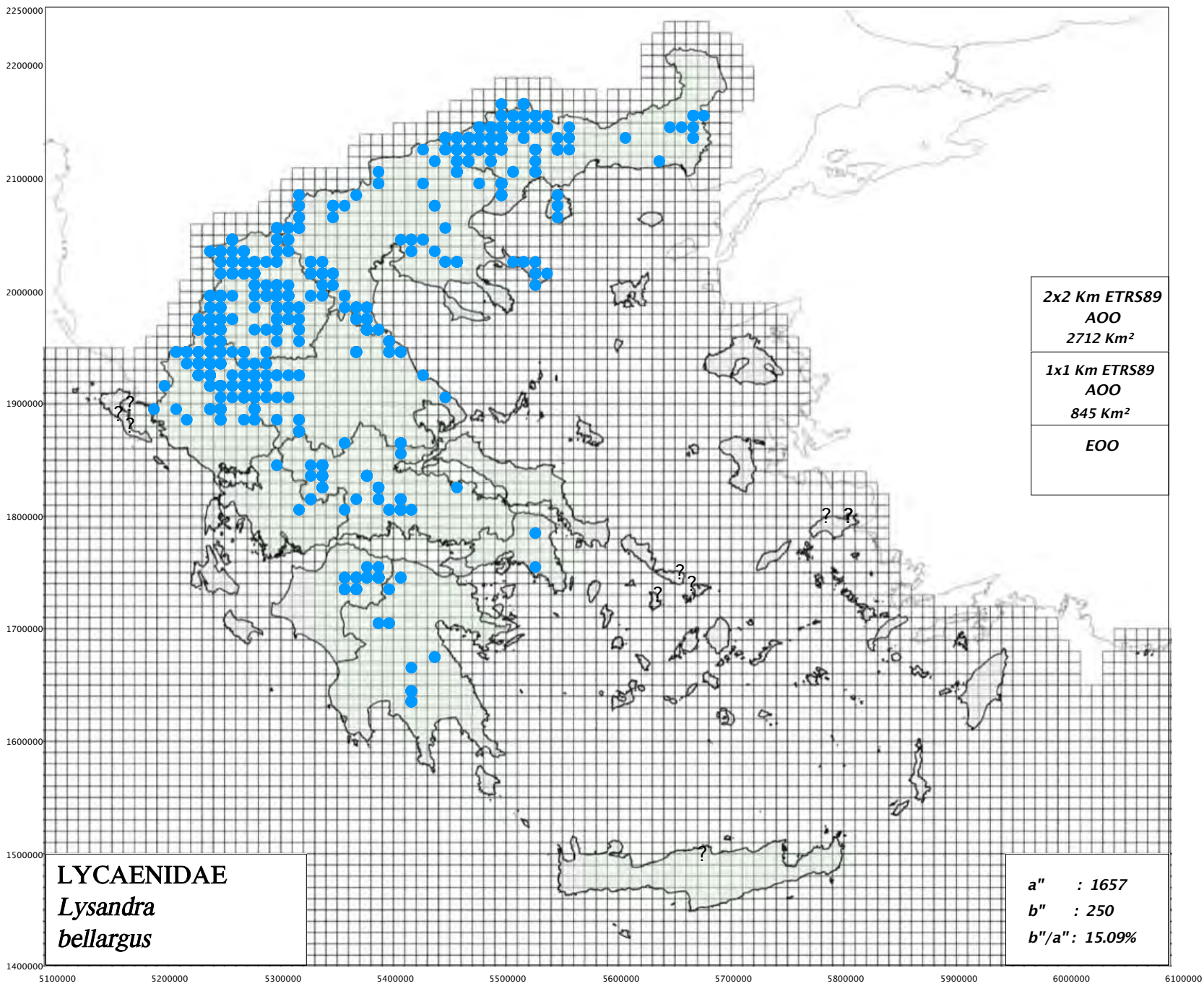




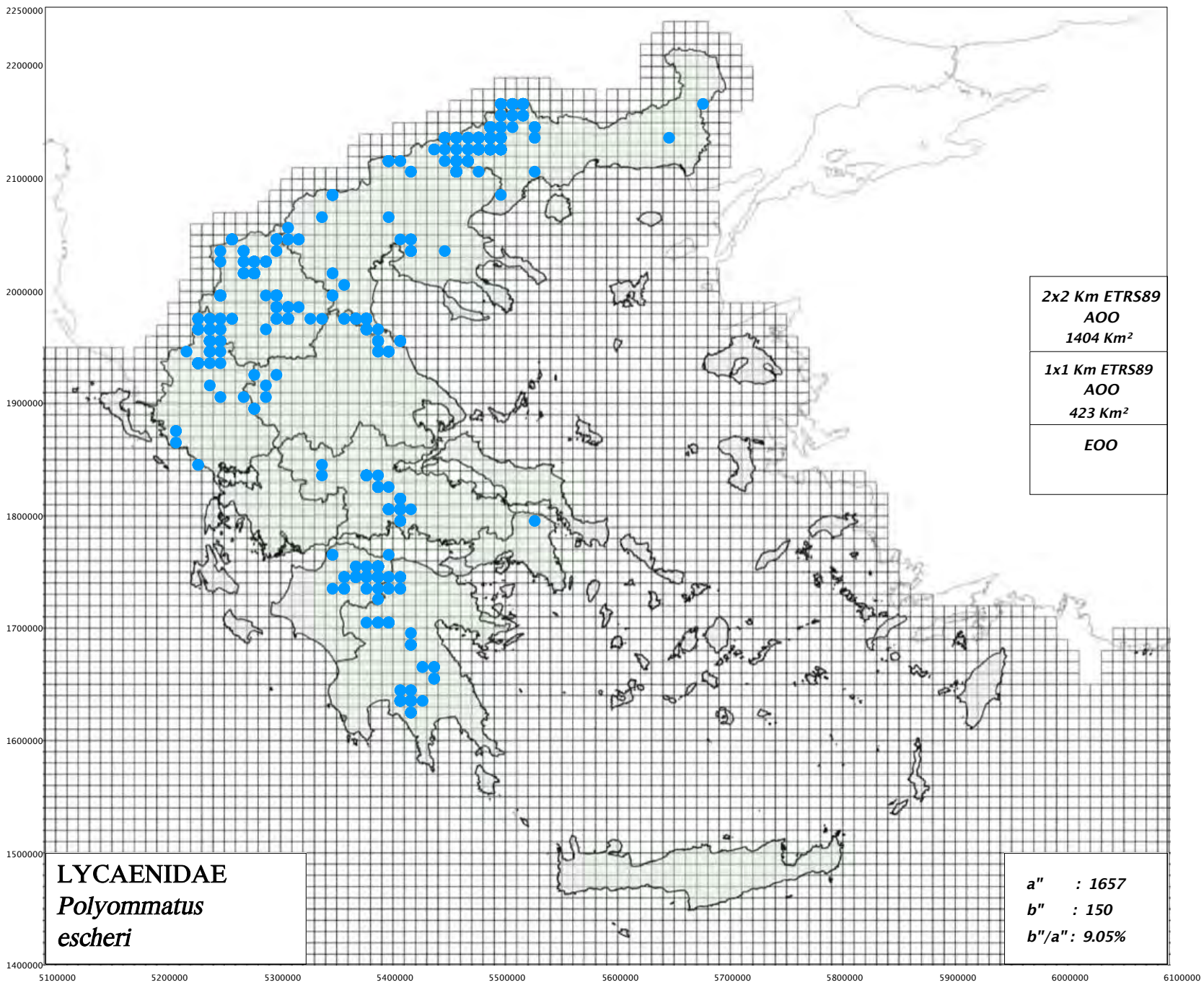






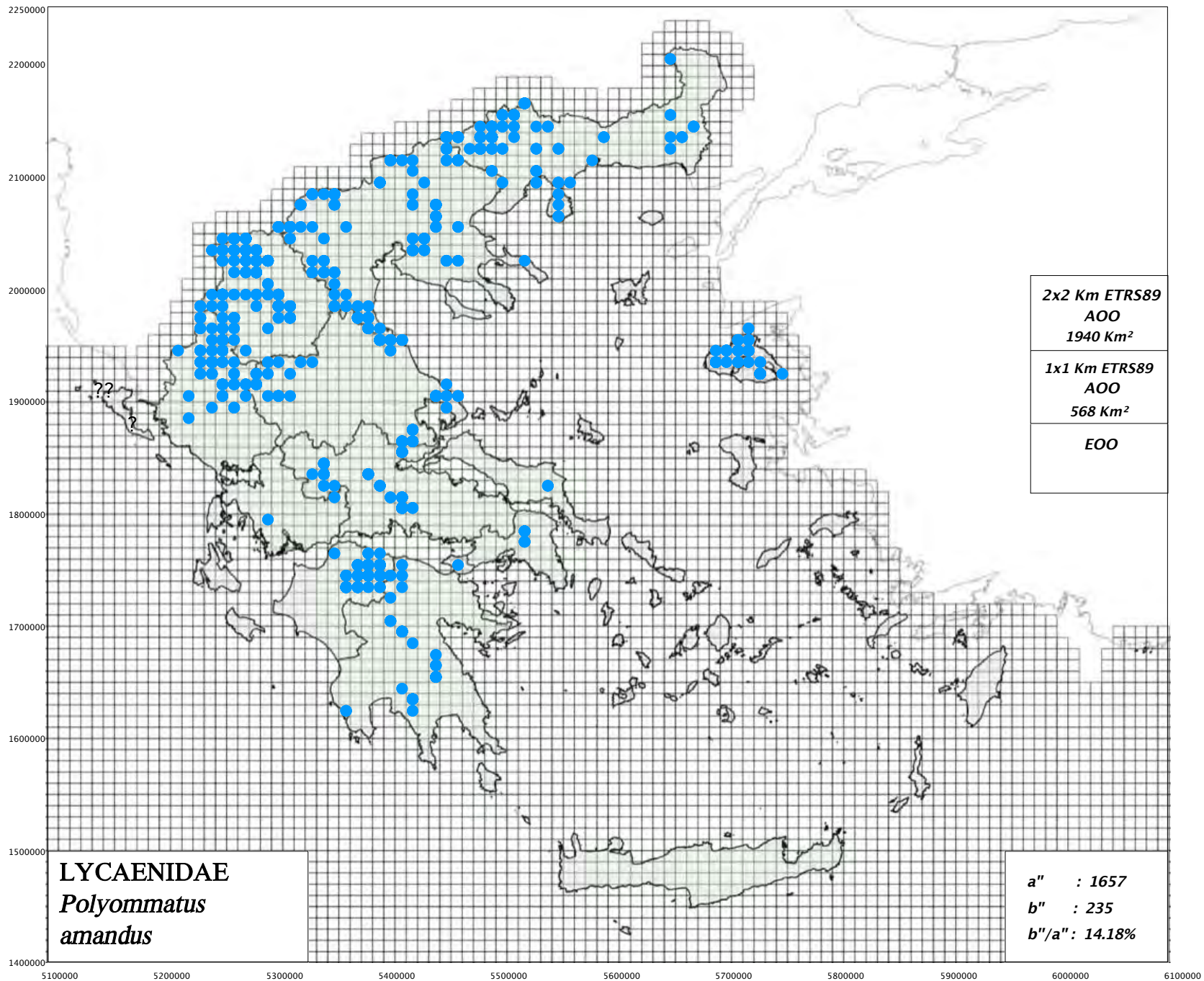


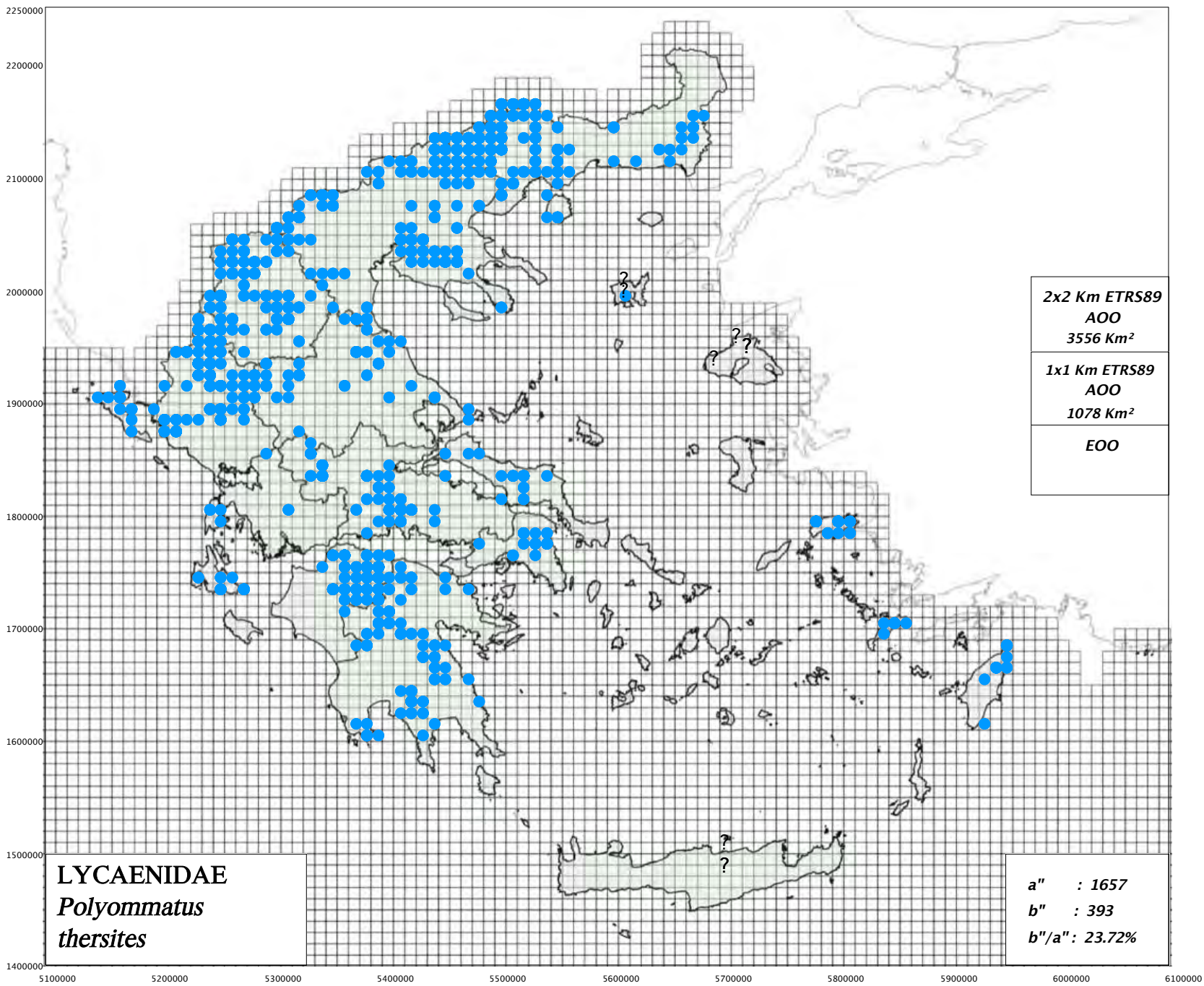
[https://www.pamperis.gr/PHOTOGRAPHS/Lysandra\\_coridon,\\_Lysandra\\_bellargus.html](https://www.pamperis.gr/PHOTOGRAPHS/Lysandra_coridon,_Lysandra_bellargus.html)



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

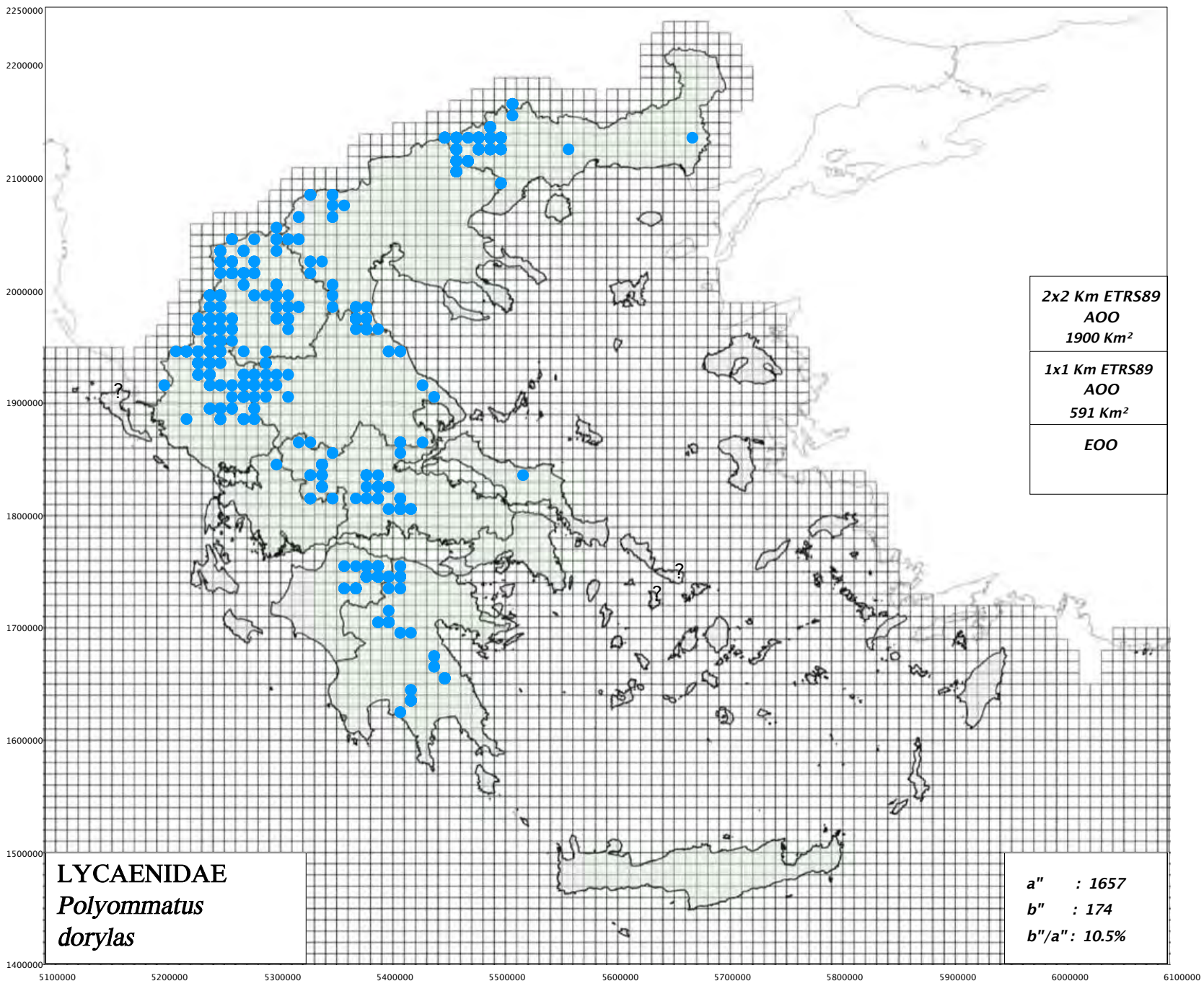


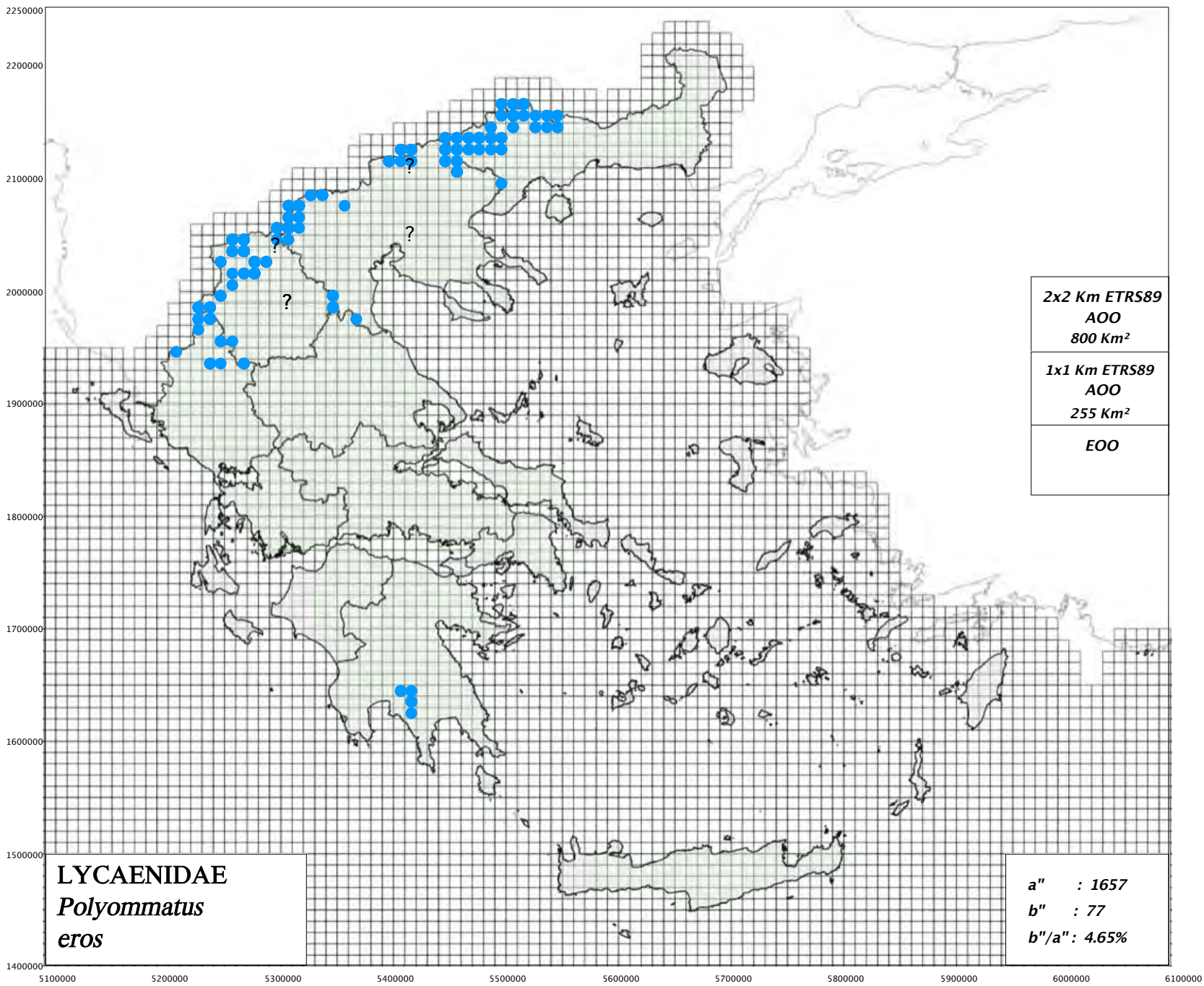




[https://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_escheri,\\_Polyommatus\\_thersites.html](https://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_escheri,_Polyommatus_thersites.html)

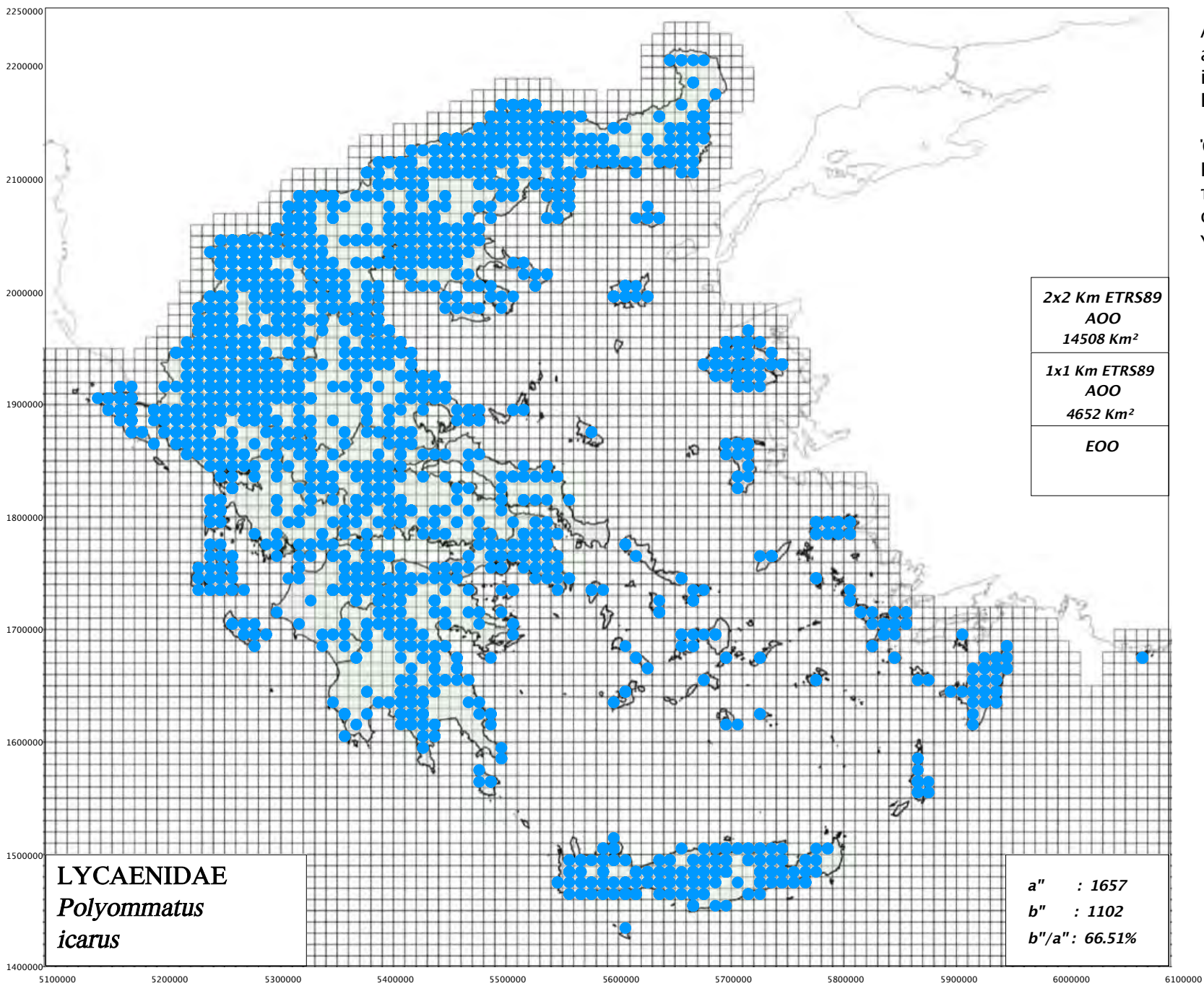






[https://www.pamperis.gr/PHOTOGRAPHS/Polyommatus\\_icarus,\\_Polyommatus\\_eros.html](https://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_icarus,_Polyommatus_eros.html)



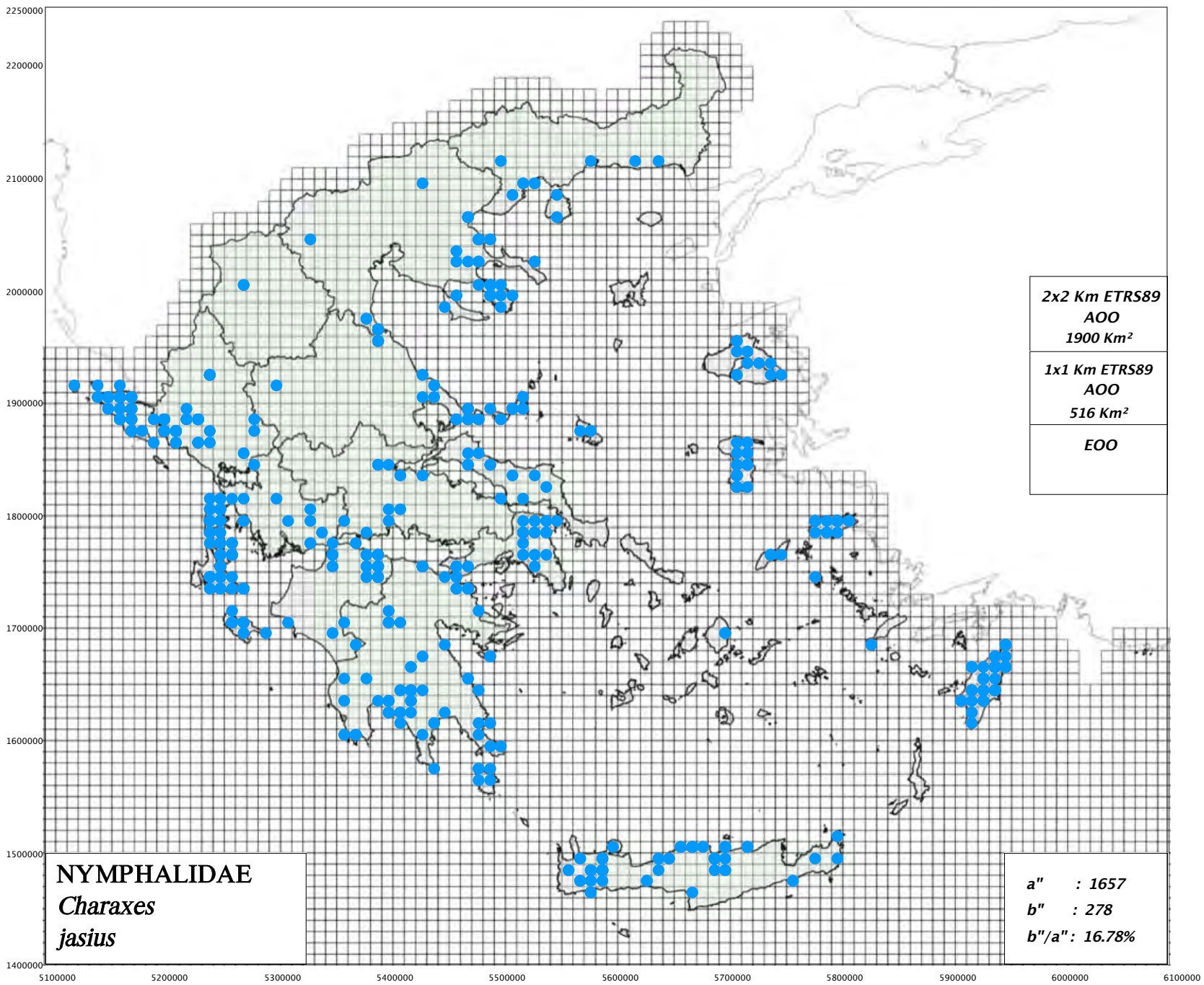


All records of *Polyommatus andronicus* (in previous Maps) are included here in the Map for *Polyommatus icarus*.

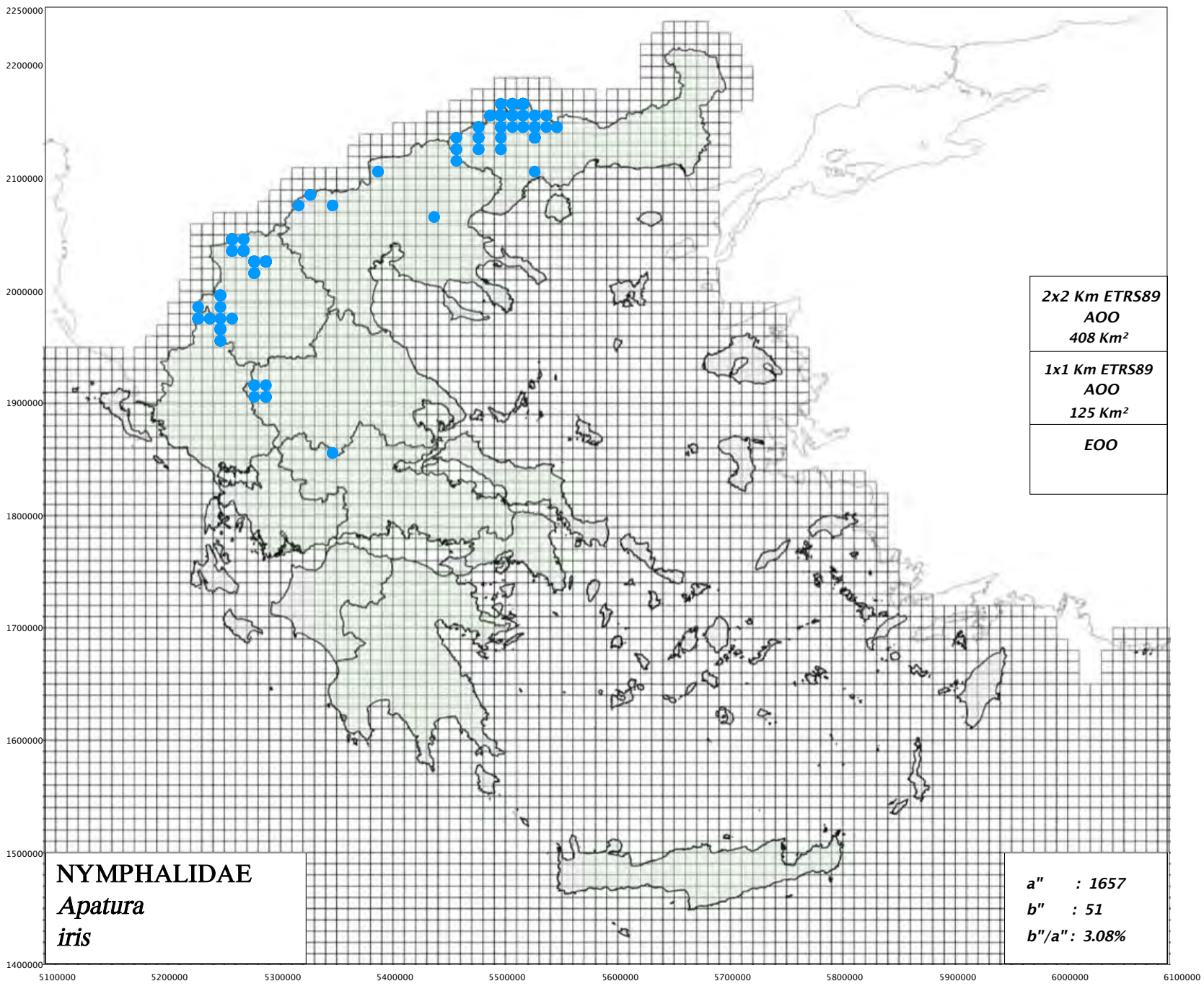
Όλες οι καταγραφές για το *Polyommatus andronicus* των προηγούμενων Χαρτών έχουν συμπεριληφθεί εδώ στον Χάρτη για το *Polyommatus icarus*

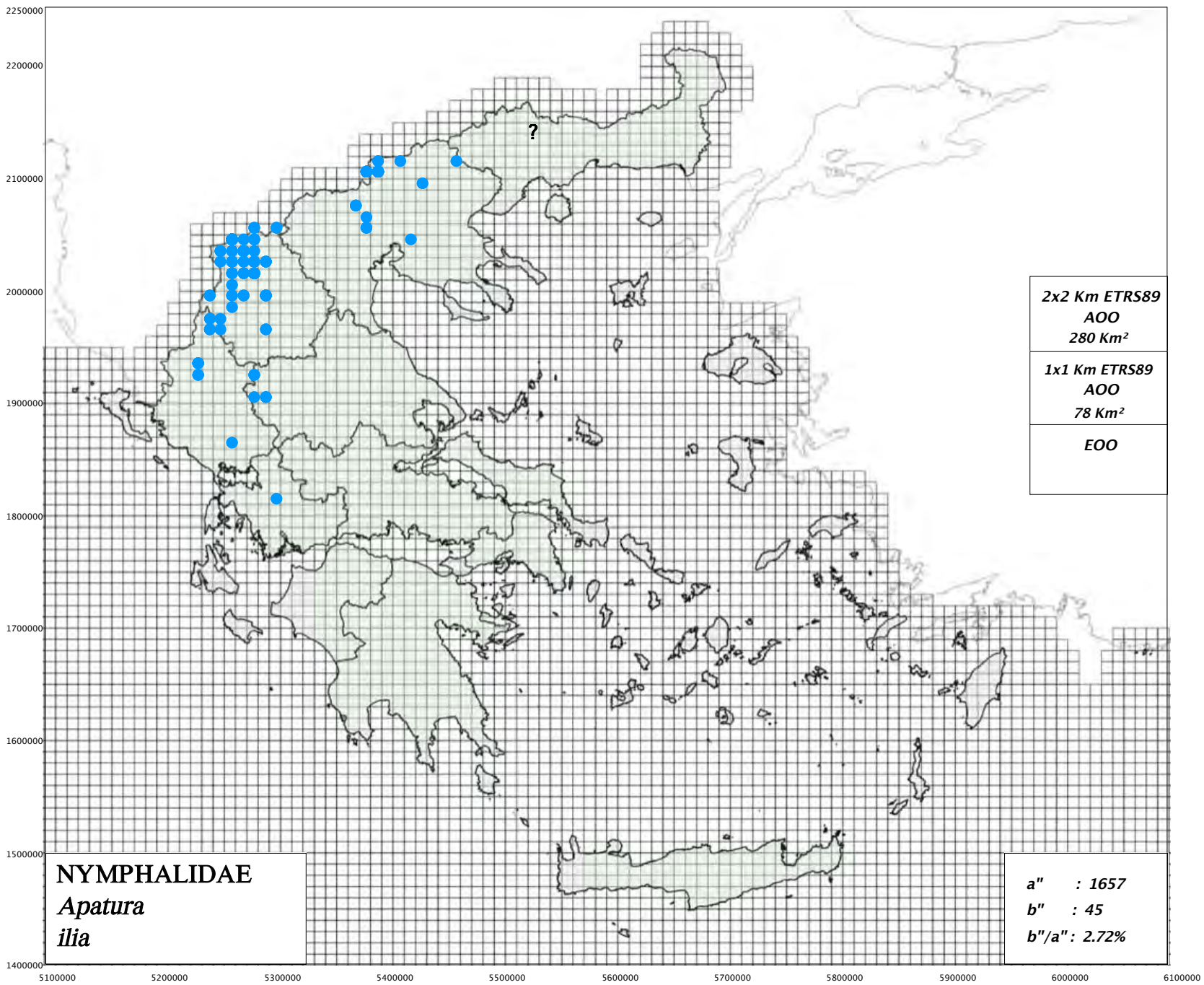
LYCAENIDAE  
*Polyommatus*  
*icarus*

$a''$  : 1657  
 $b''$  : 1102  
 $b''/a''$  : 66.51%

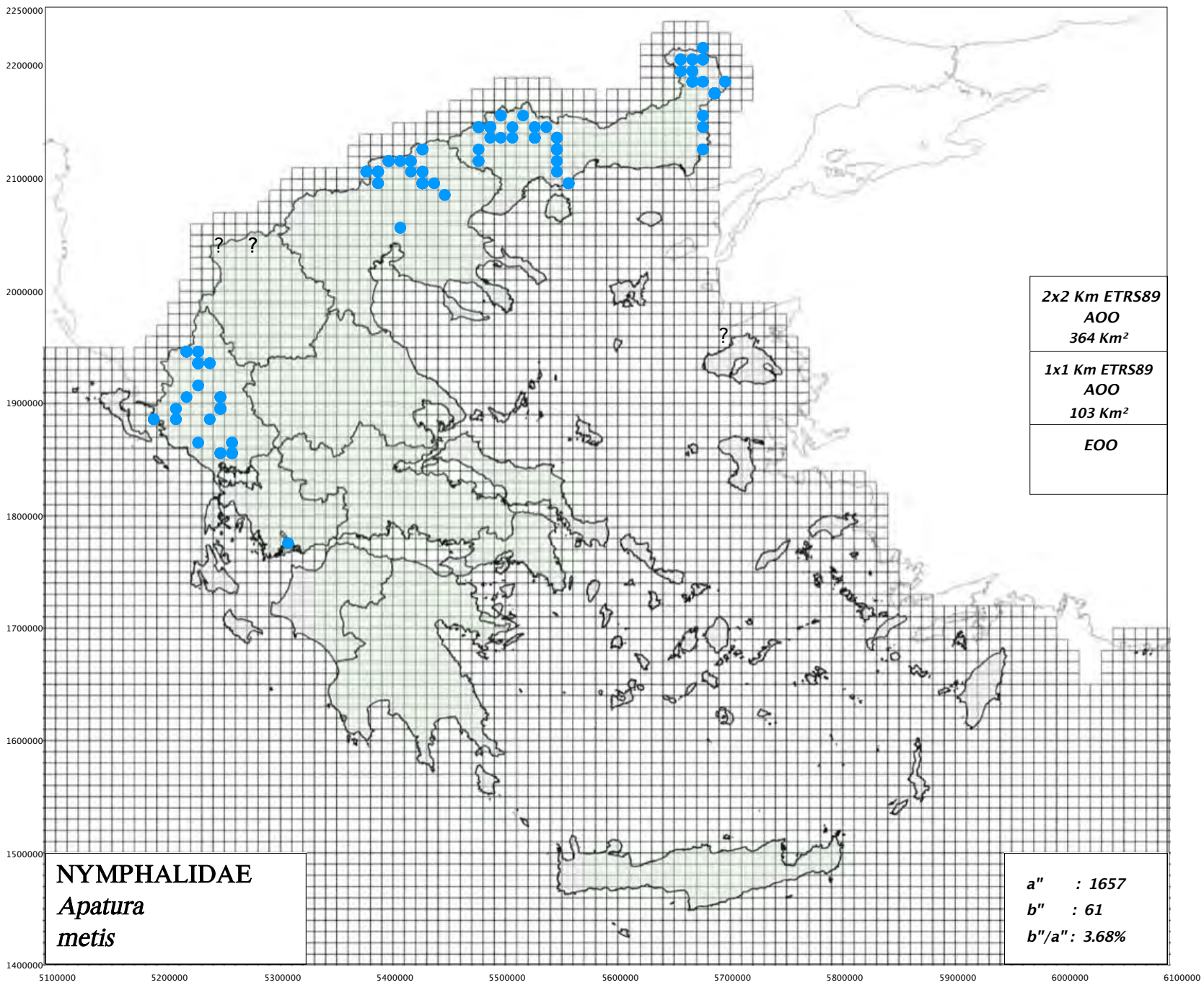


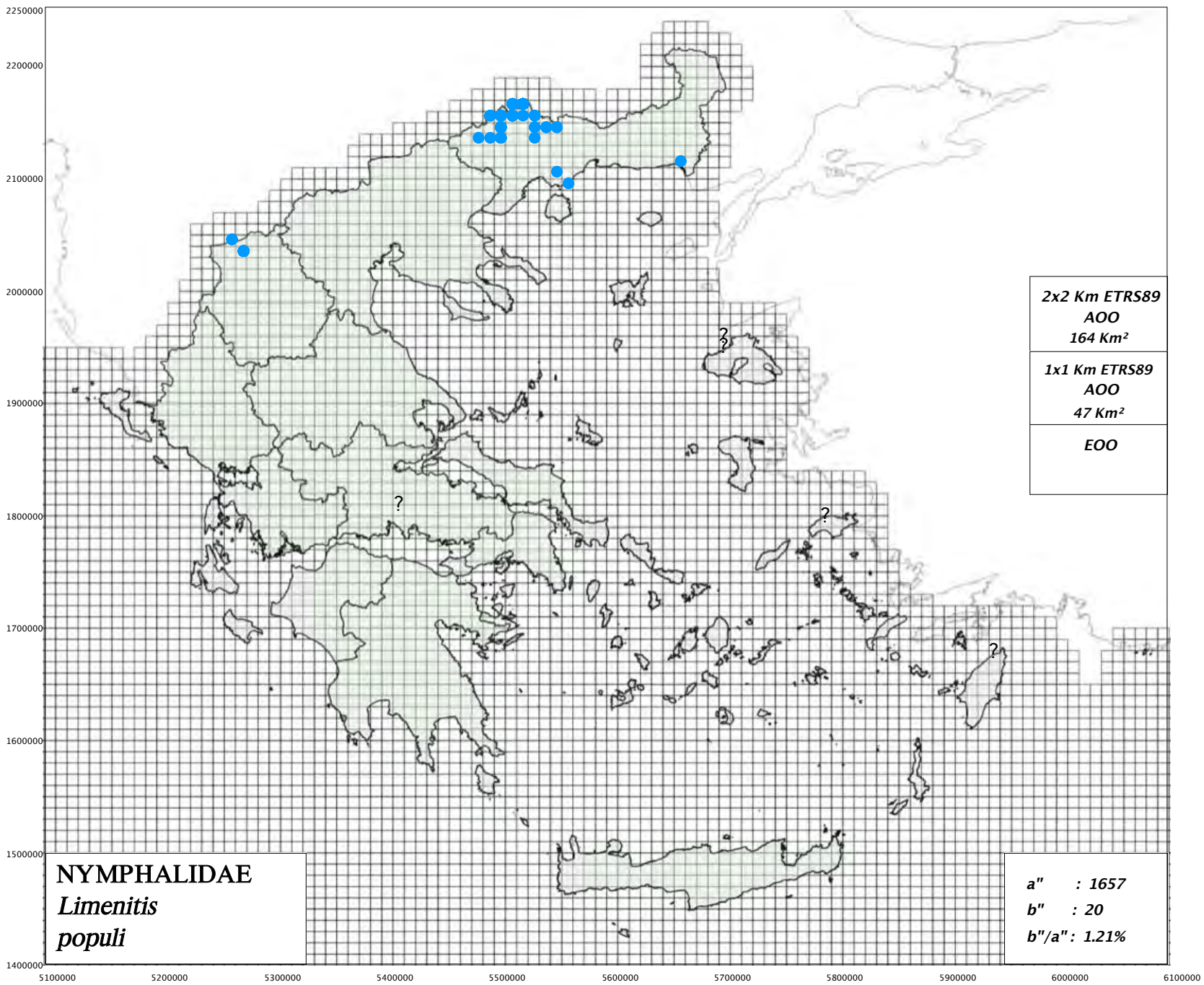




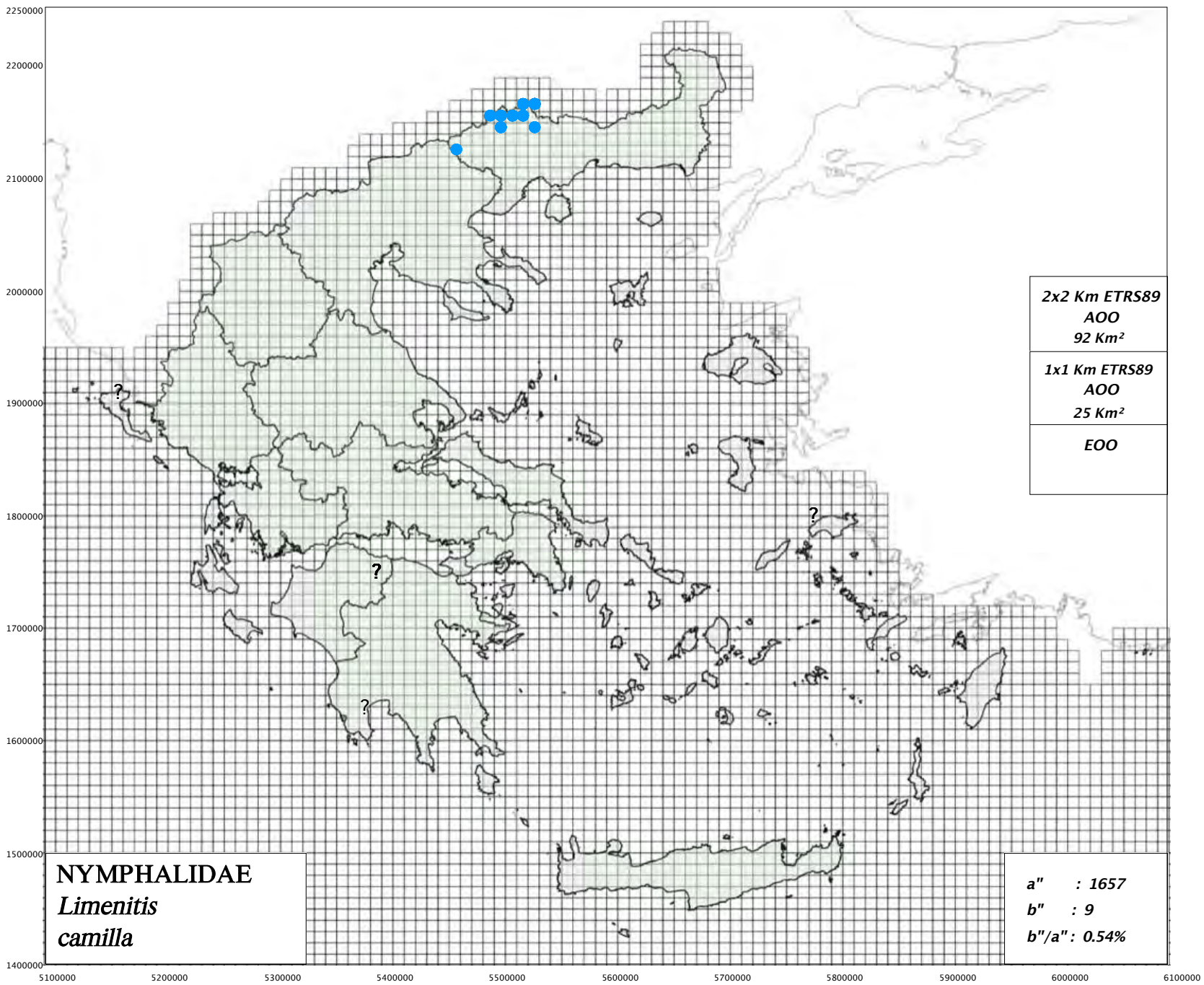


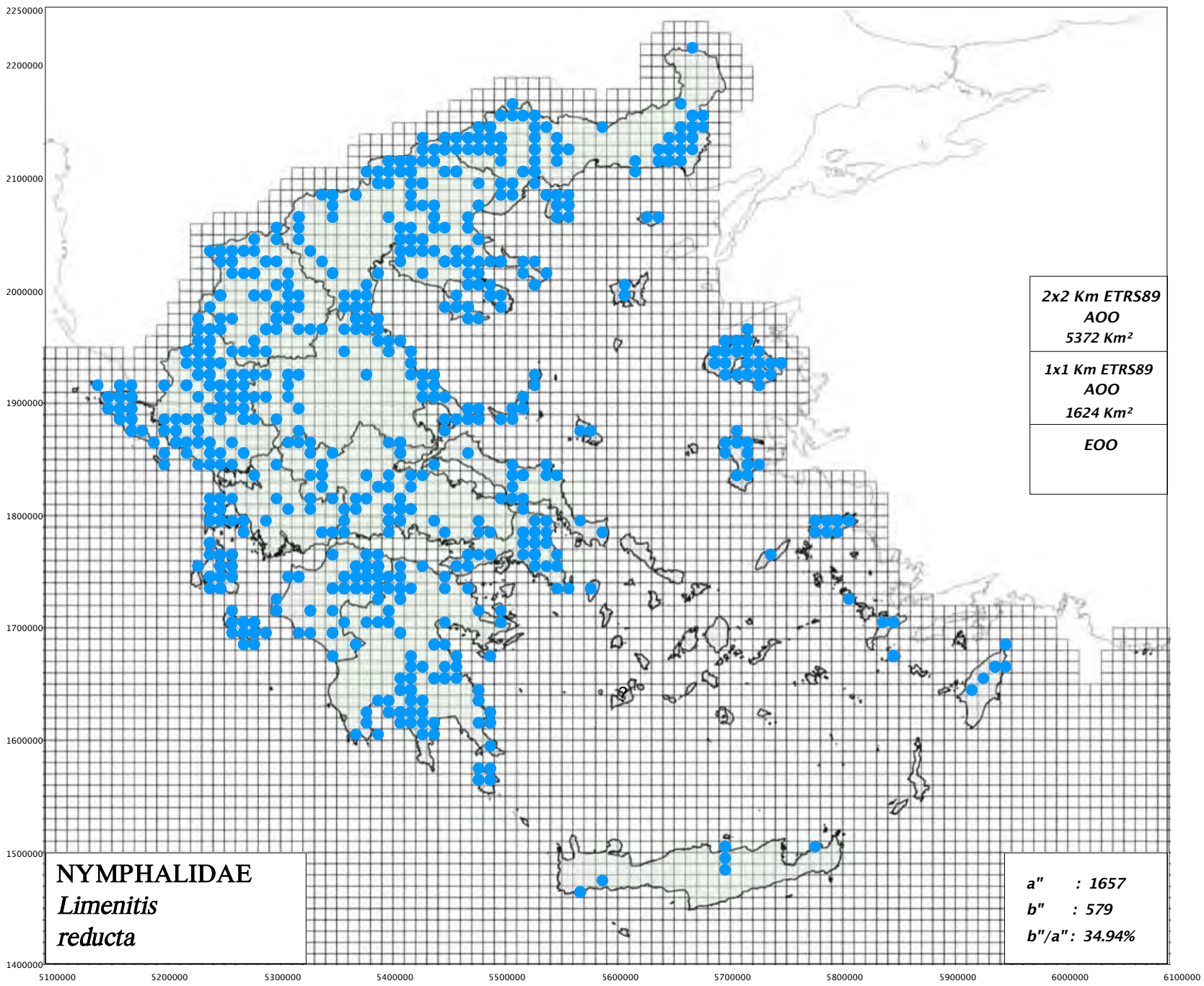




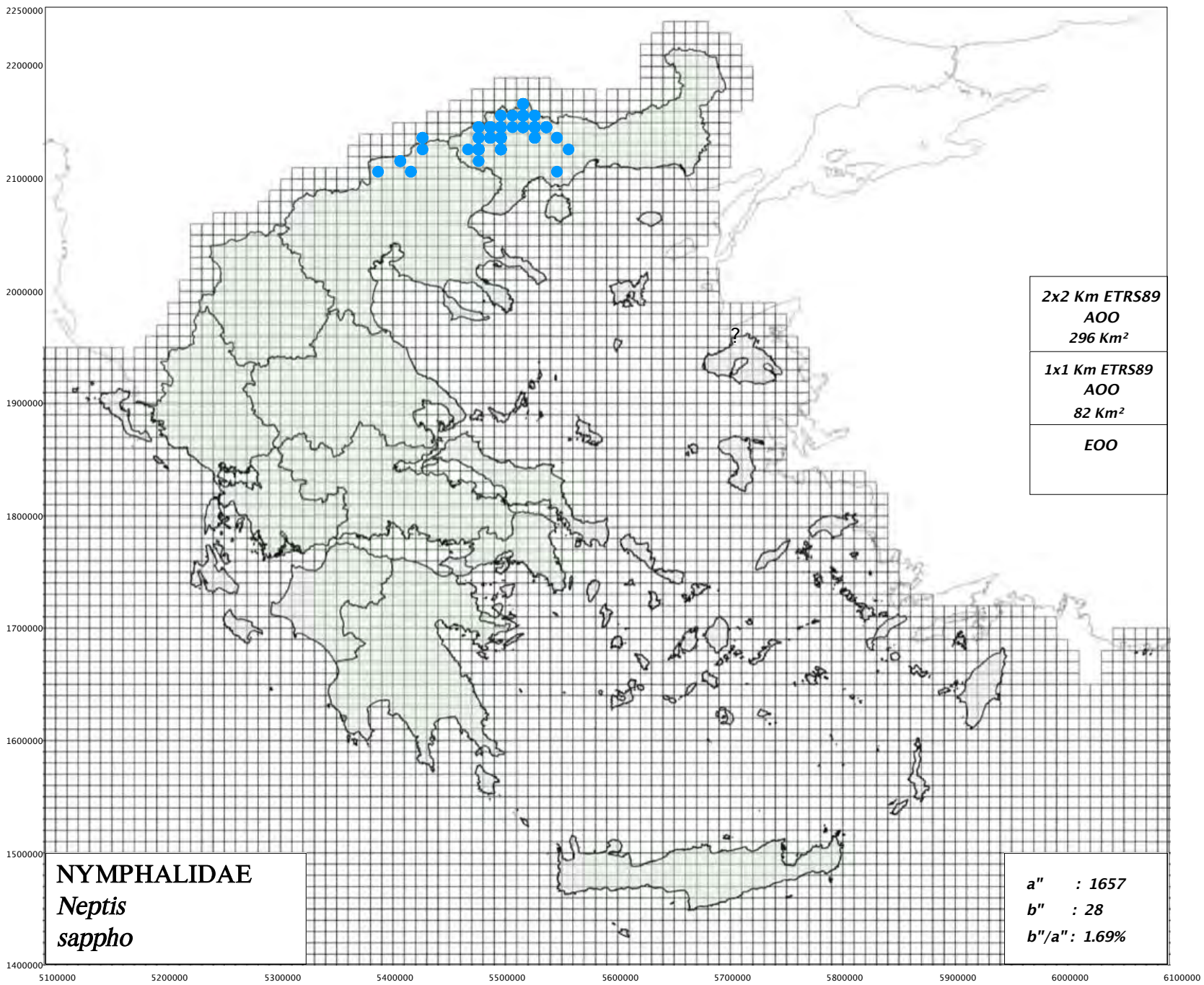


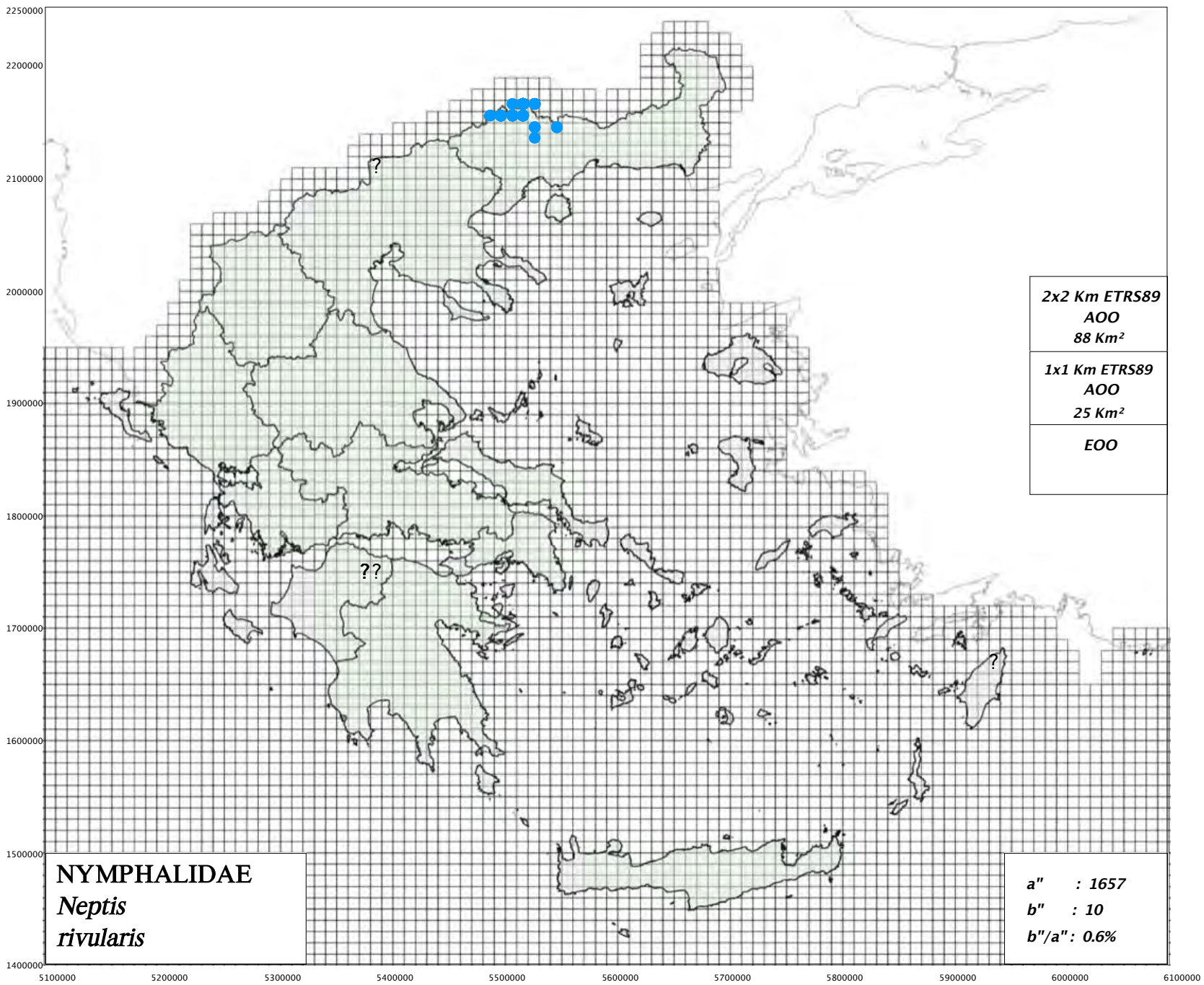




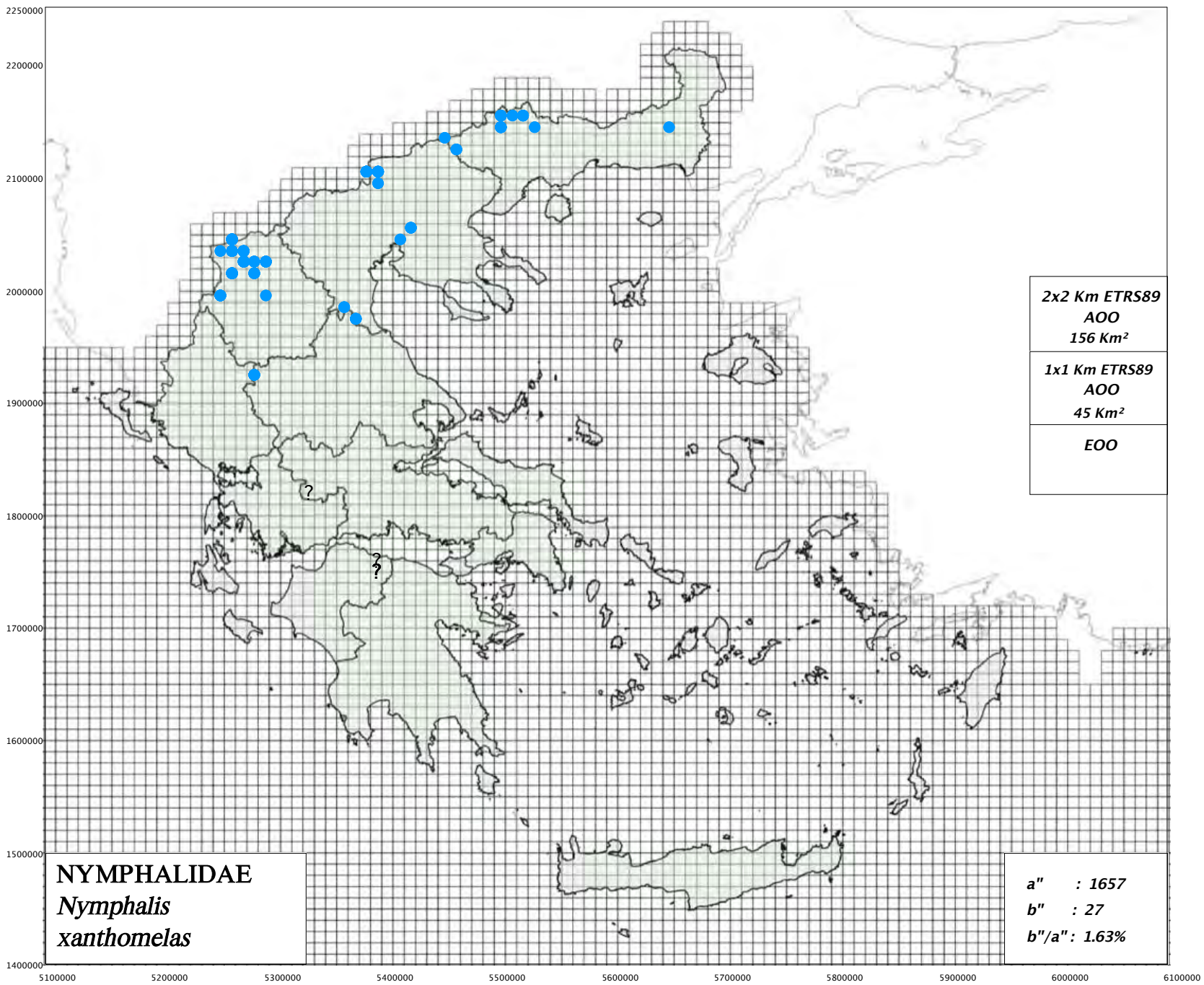


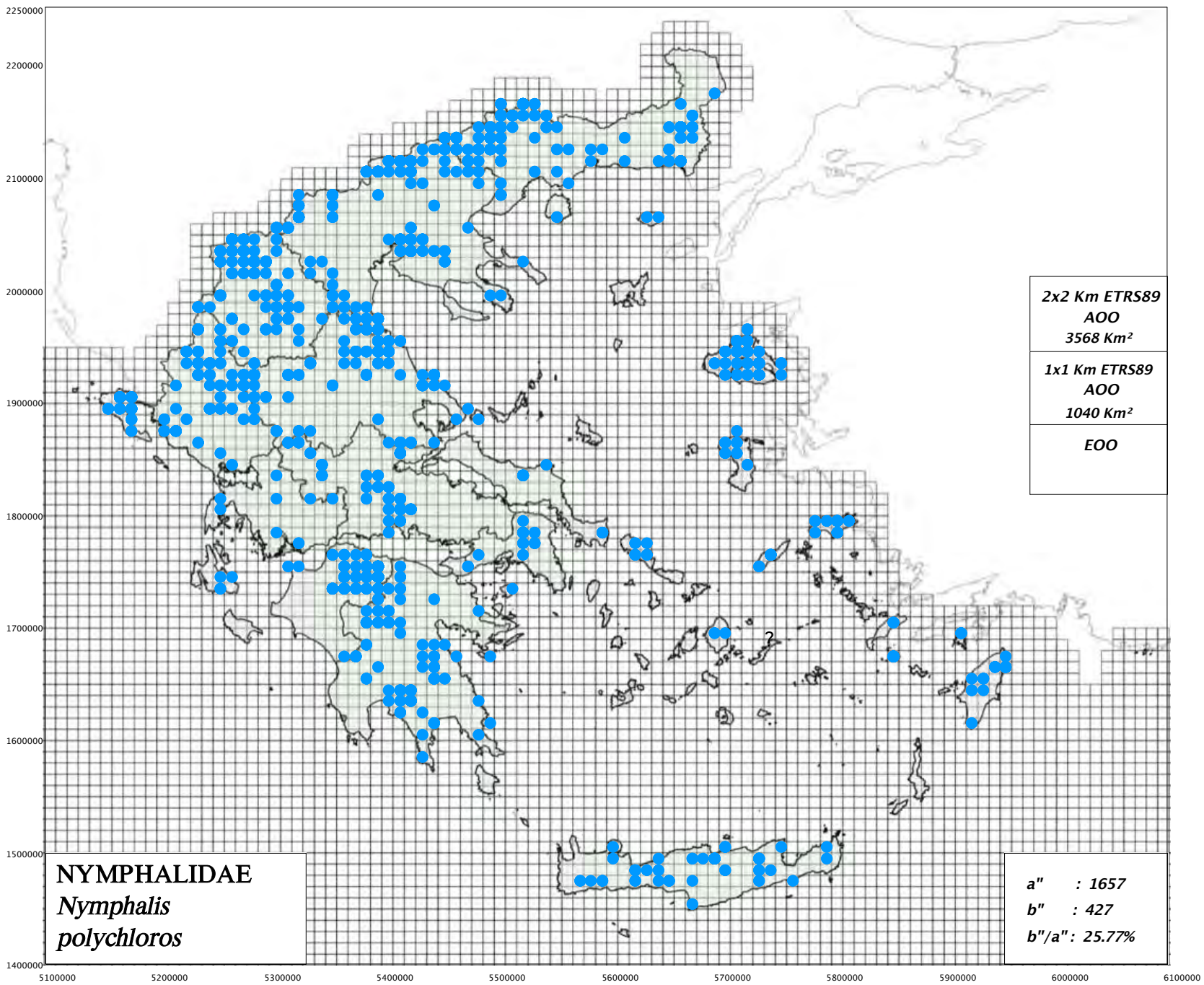




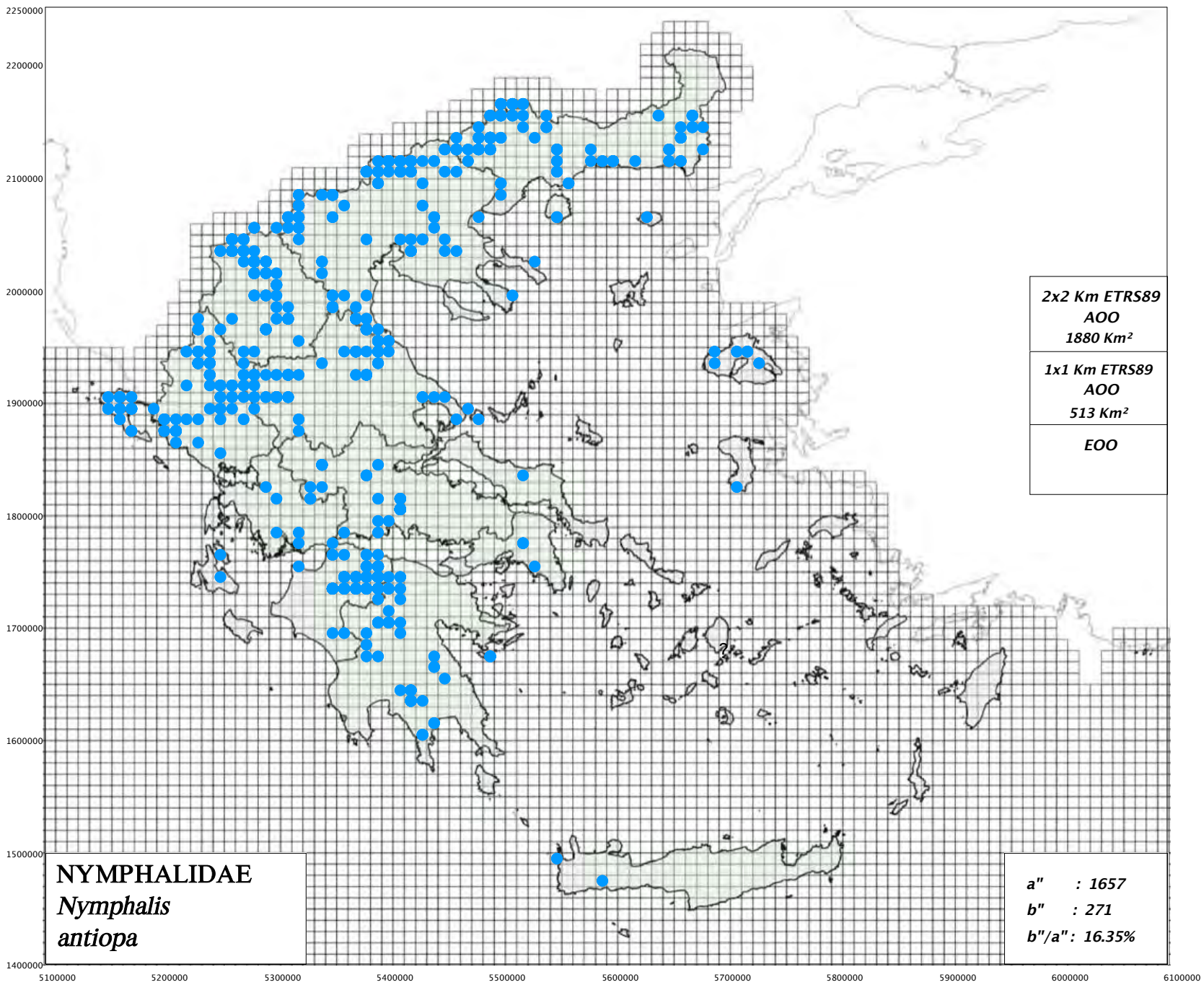


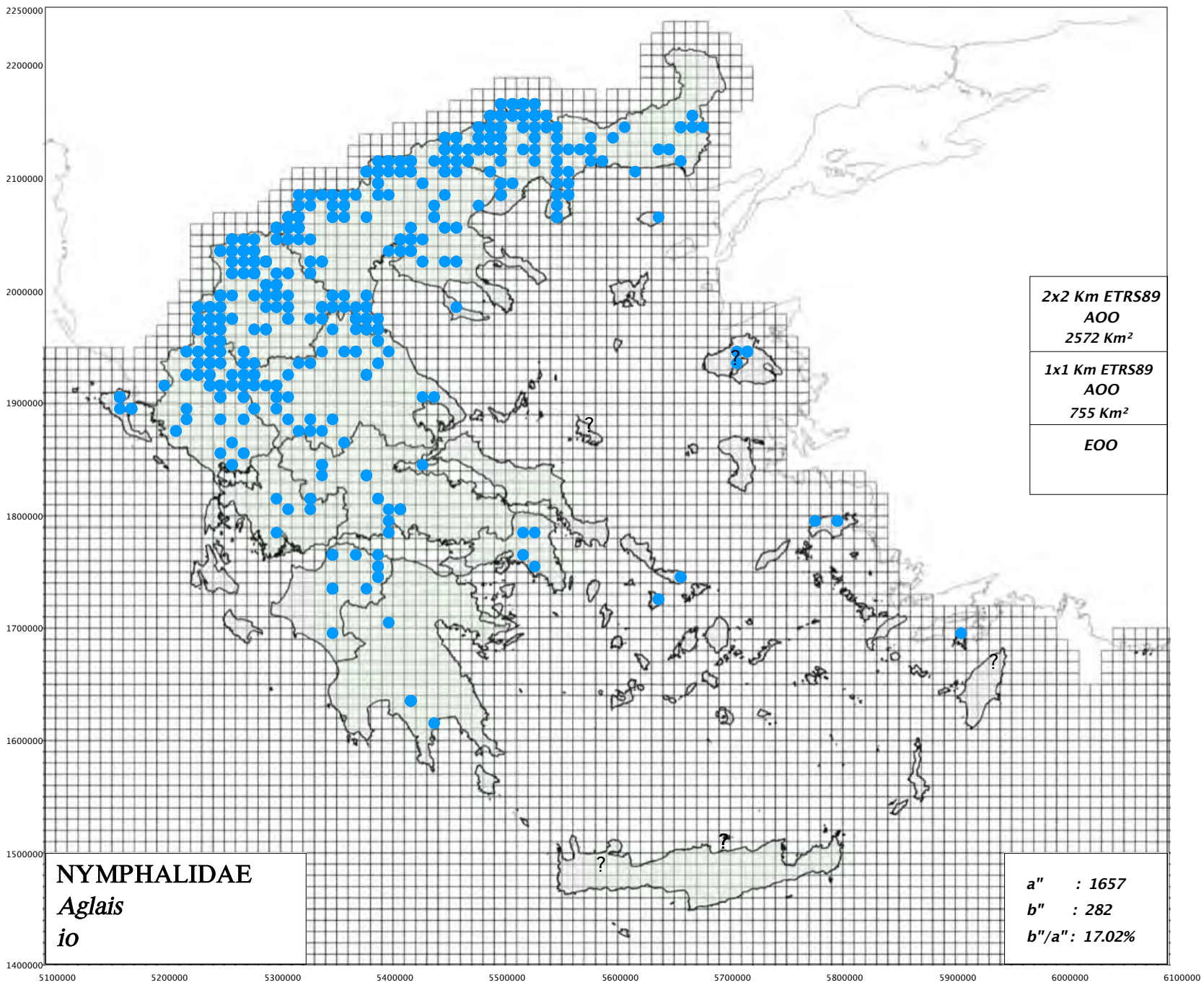




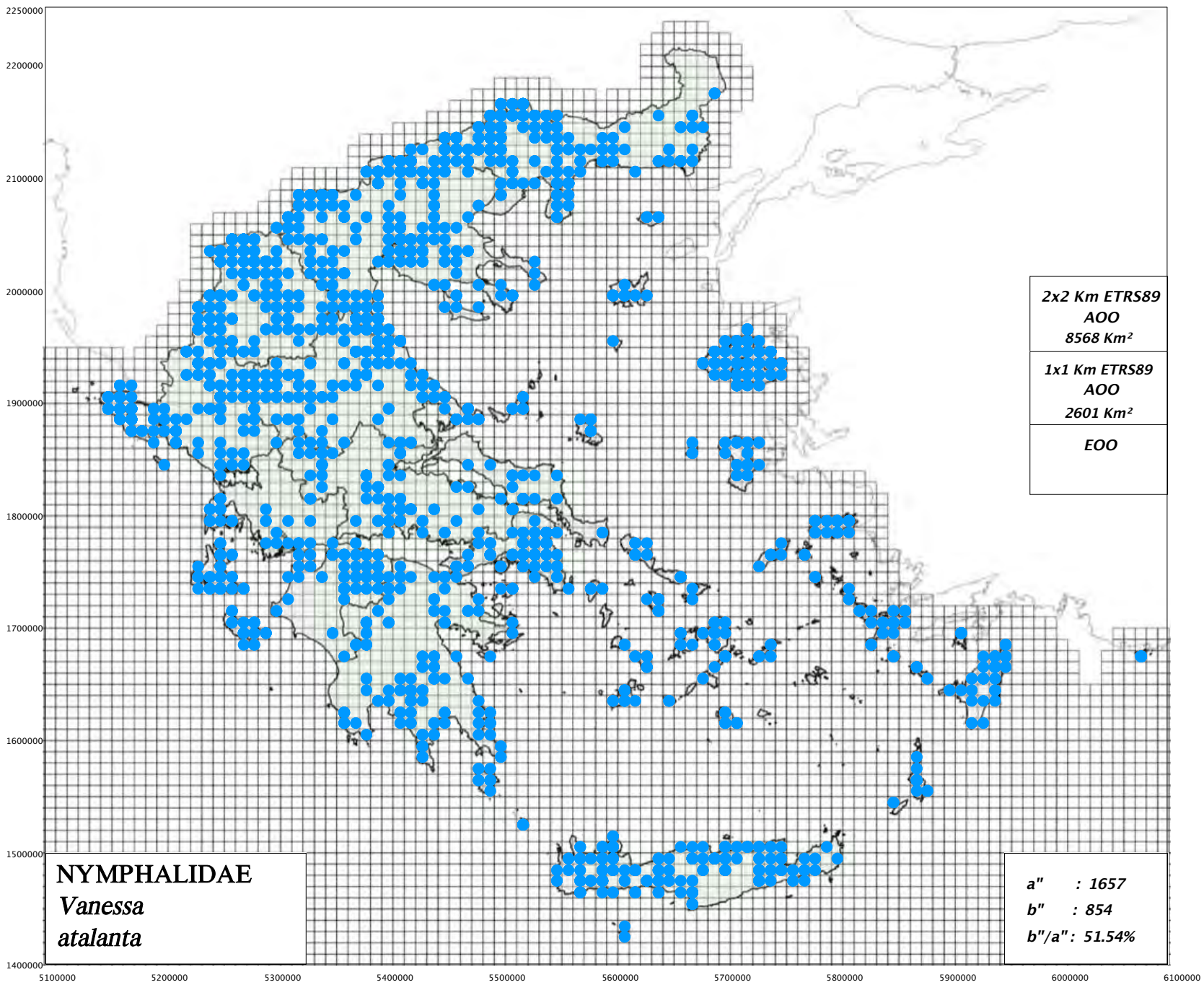


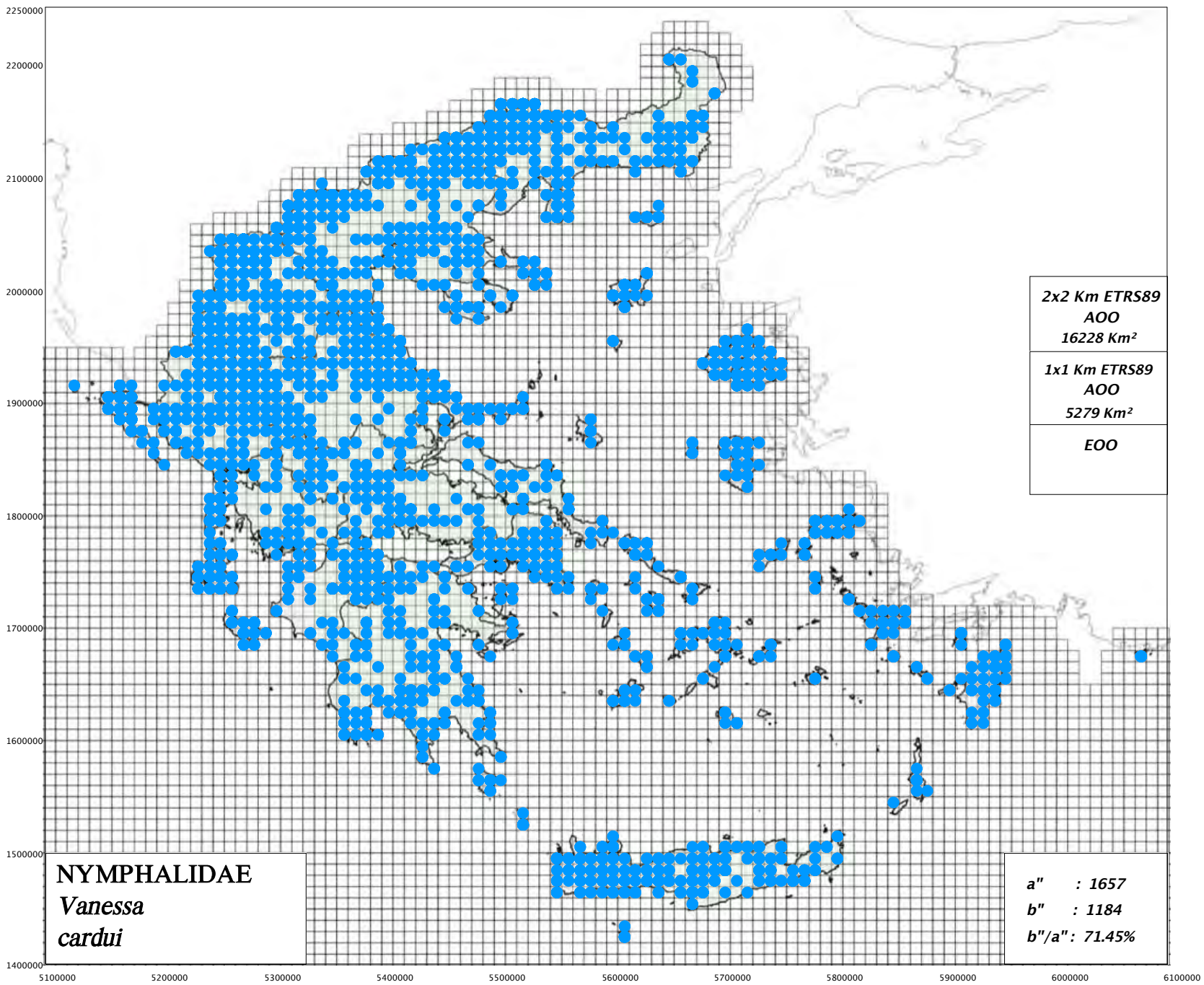




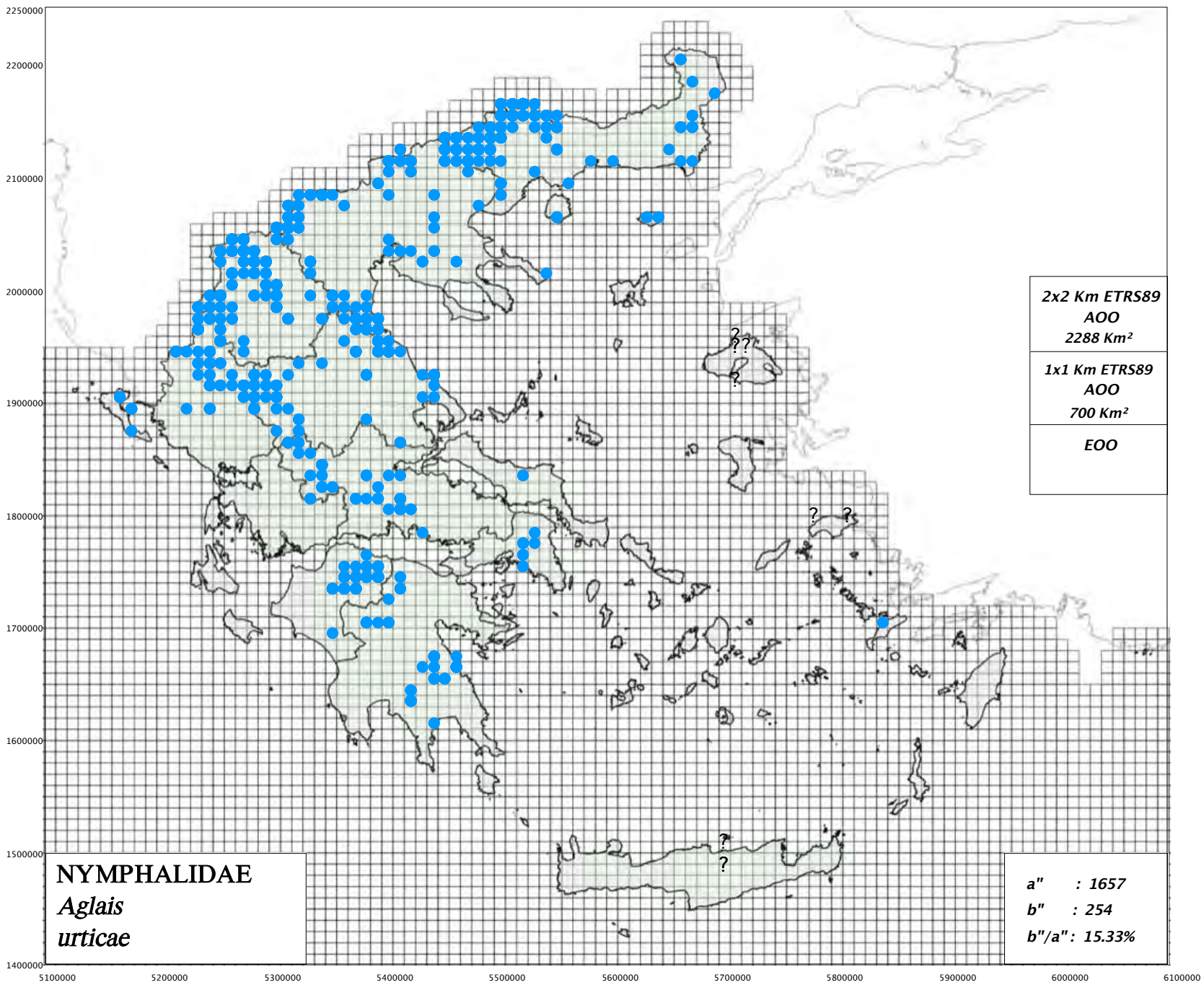


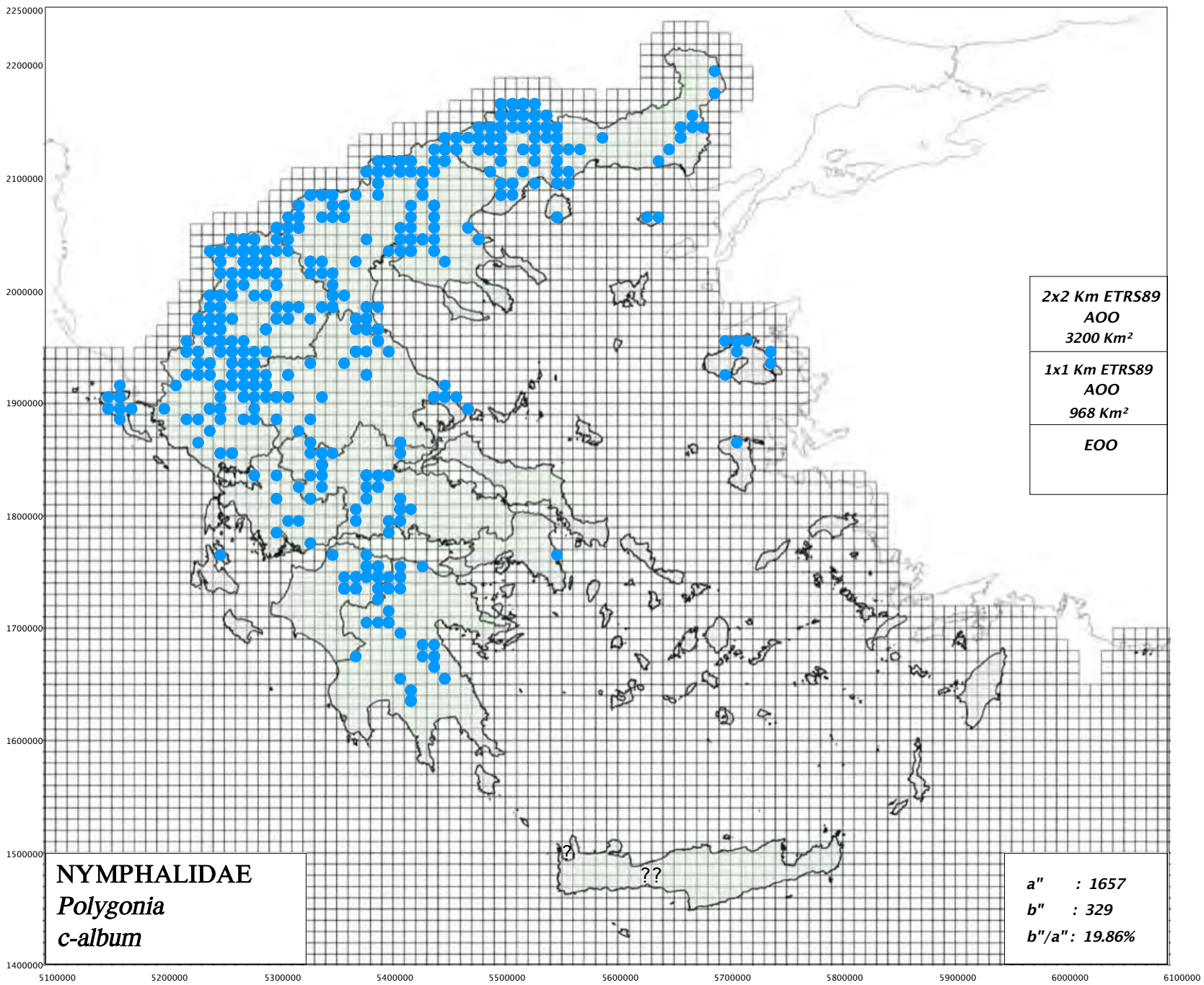




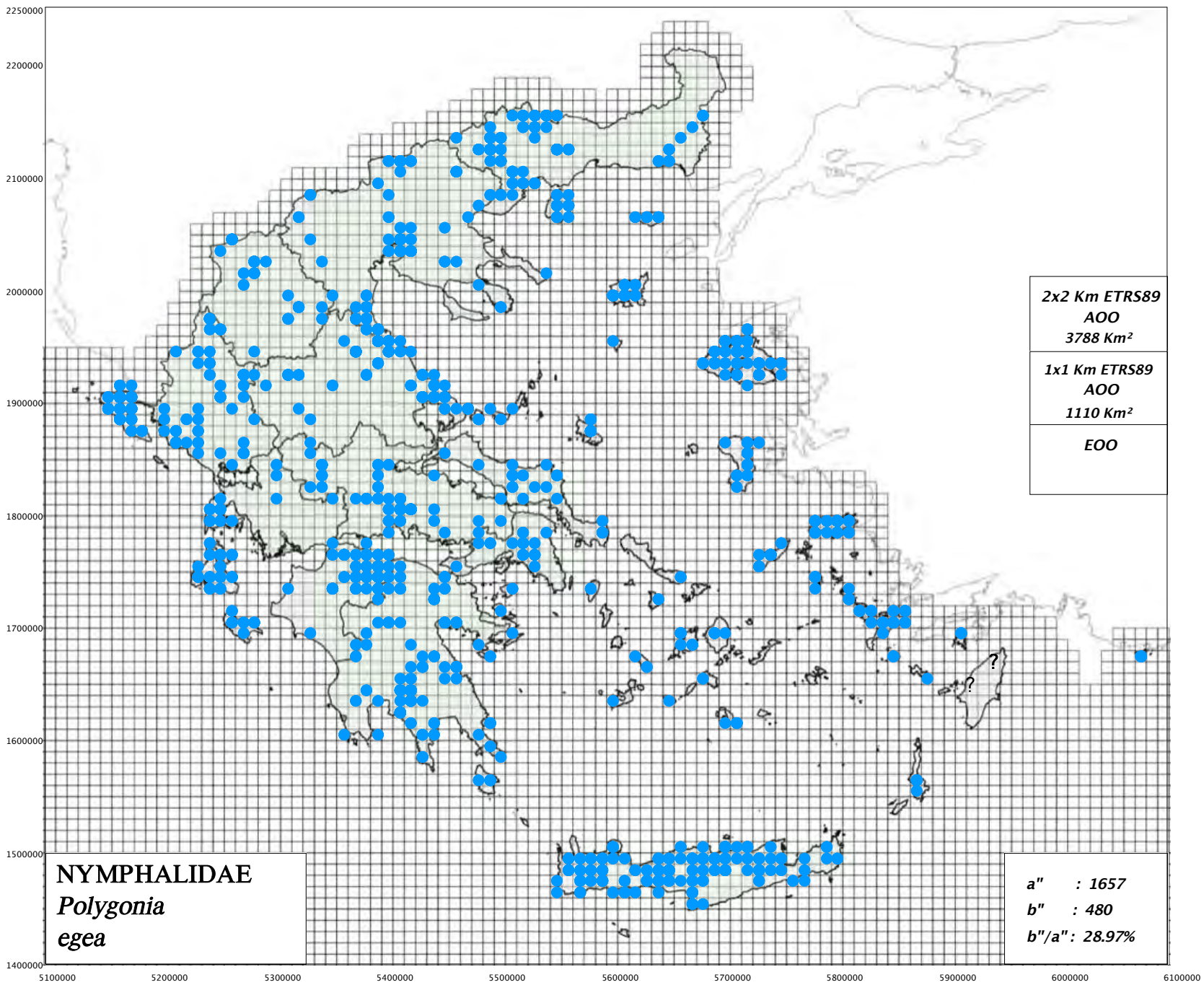


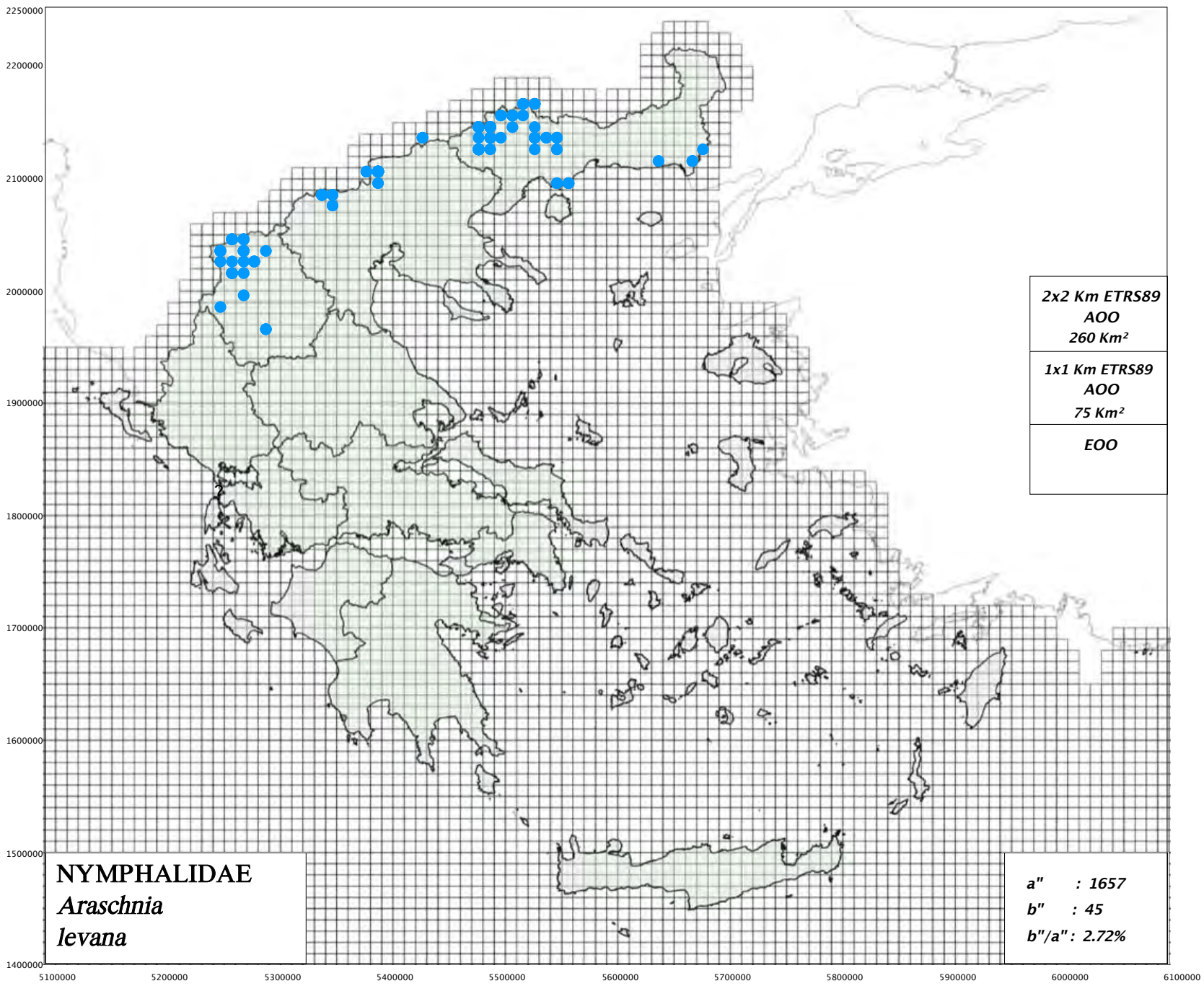












**NYMPHALIDAE**  
*Araschnia*  
*levana*

**2x2 Km ETRS89**  
**AOO**  
**260 Km<sup>2</sup>**

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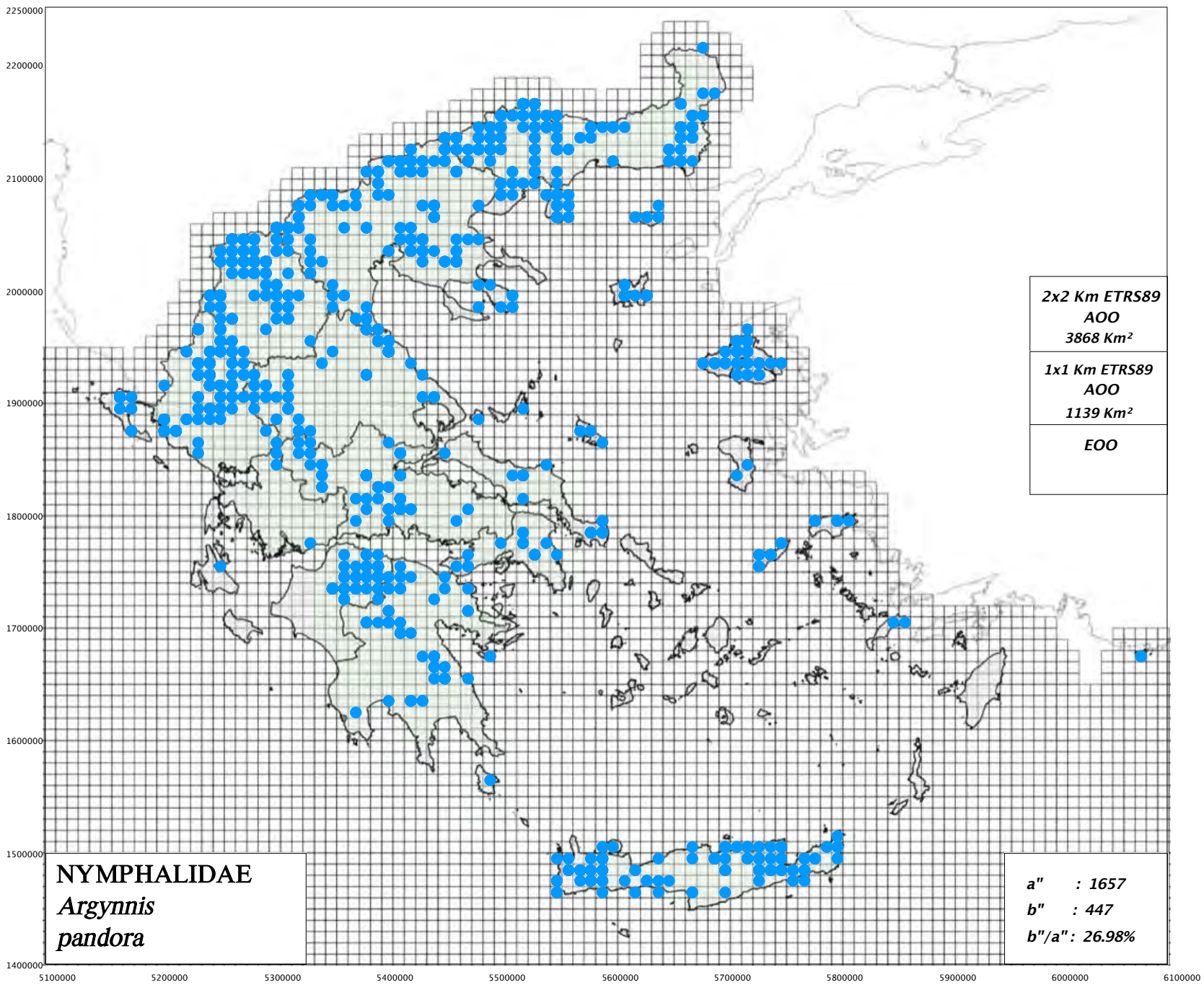
**1x1 Km ETRS89**  
**AOO**  
**75 Km<sup>2</sup>**

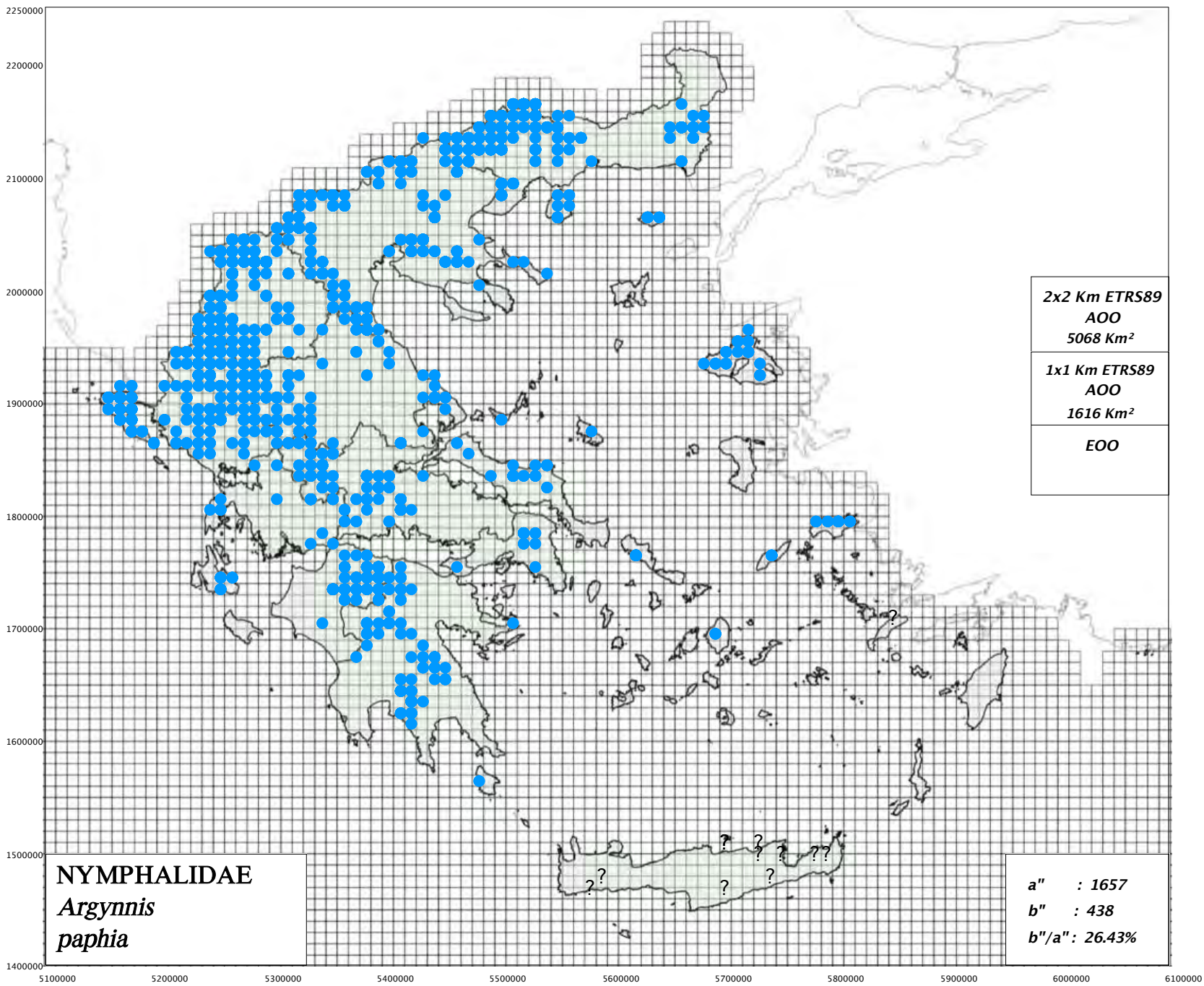
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**EOO**

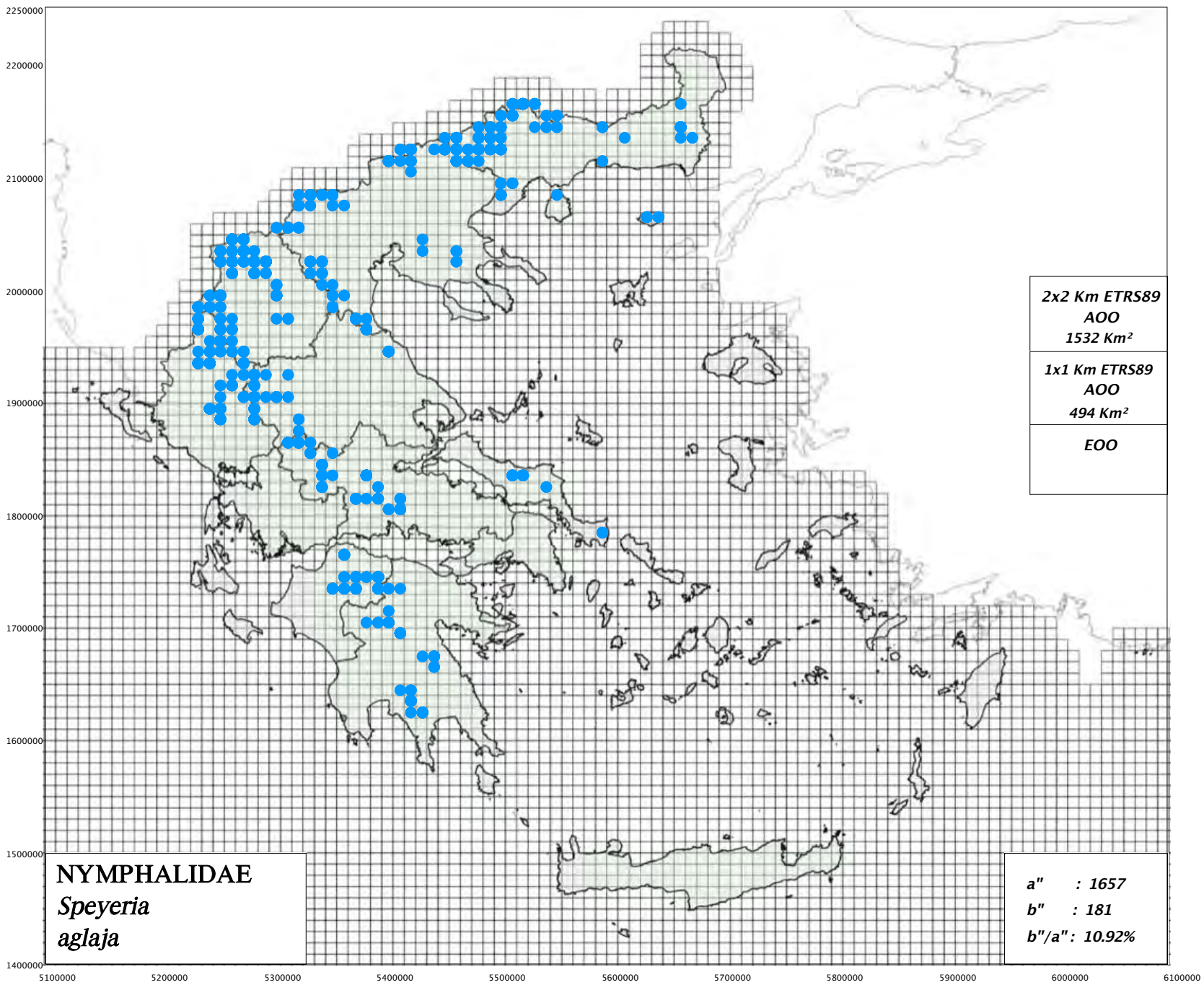
**a'' : 1657**  
**b'' : 45**  
**b''/a'' : 2.72%**

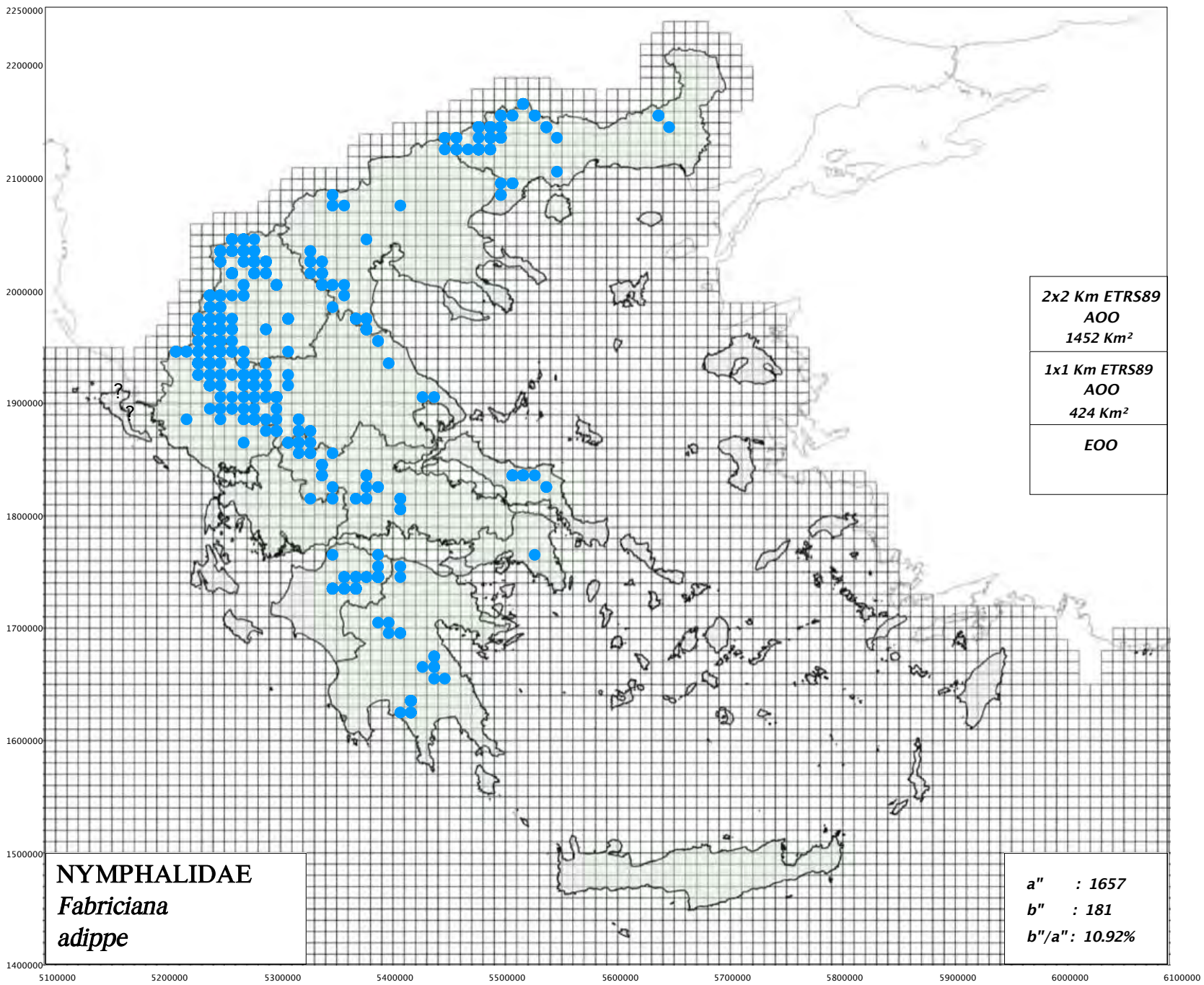




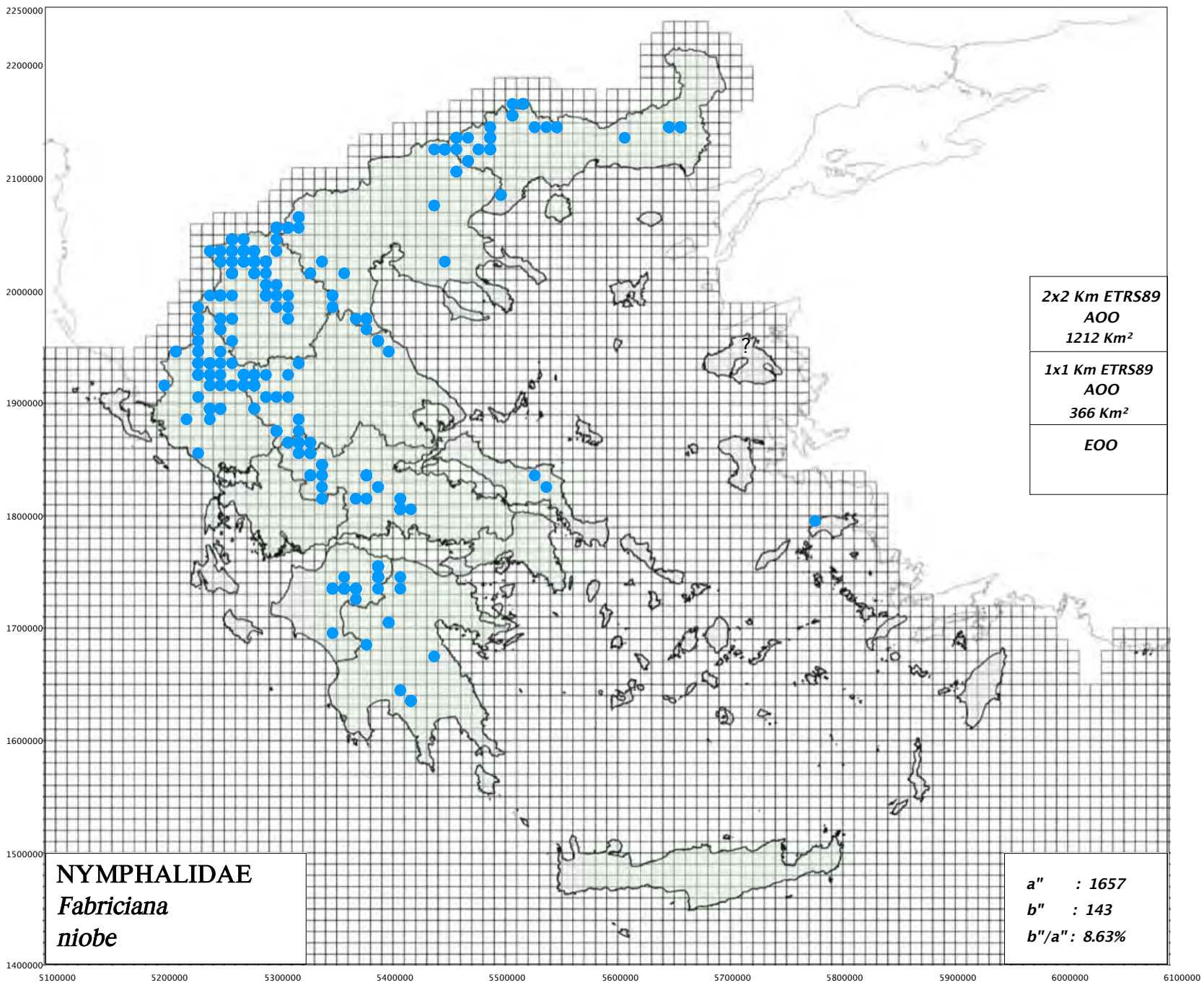


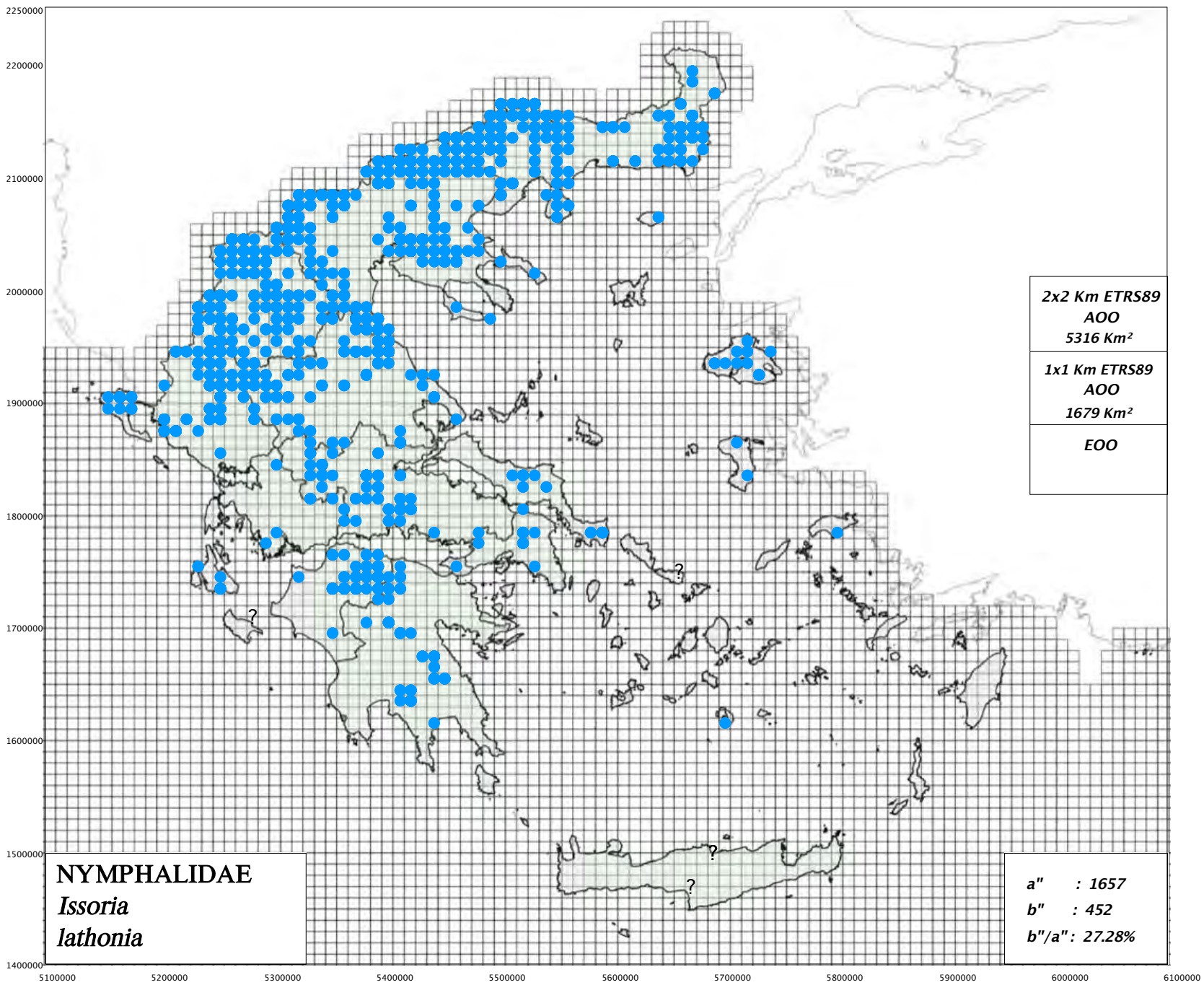




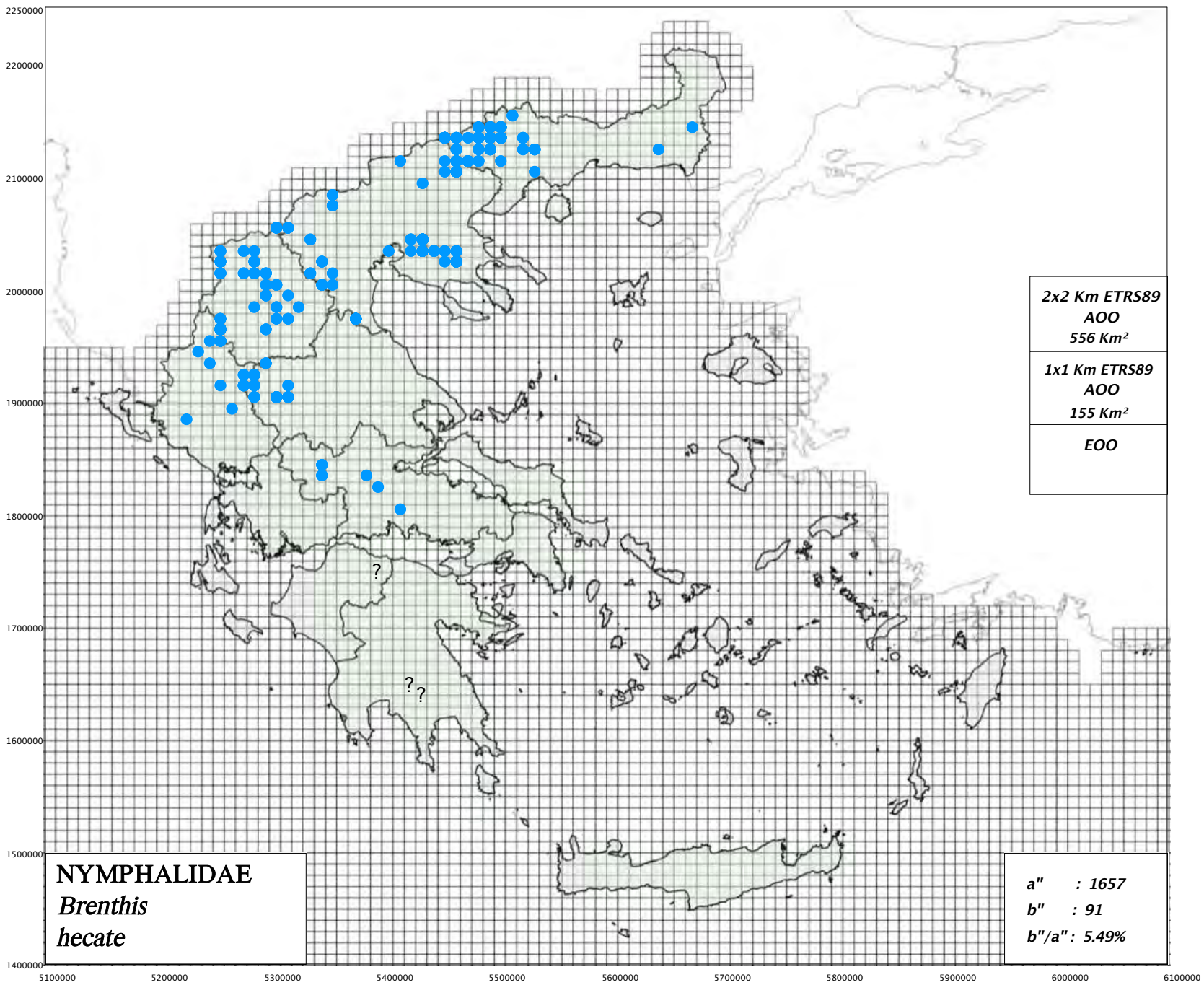


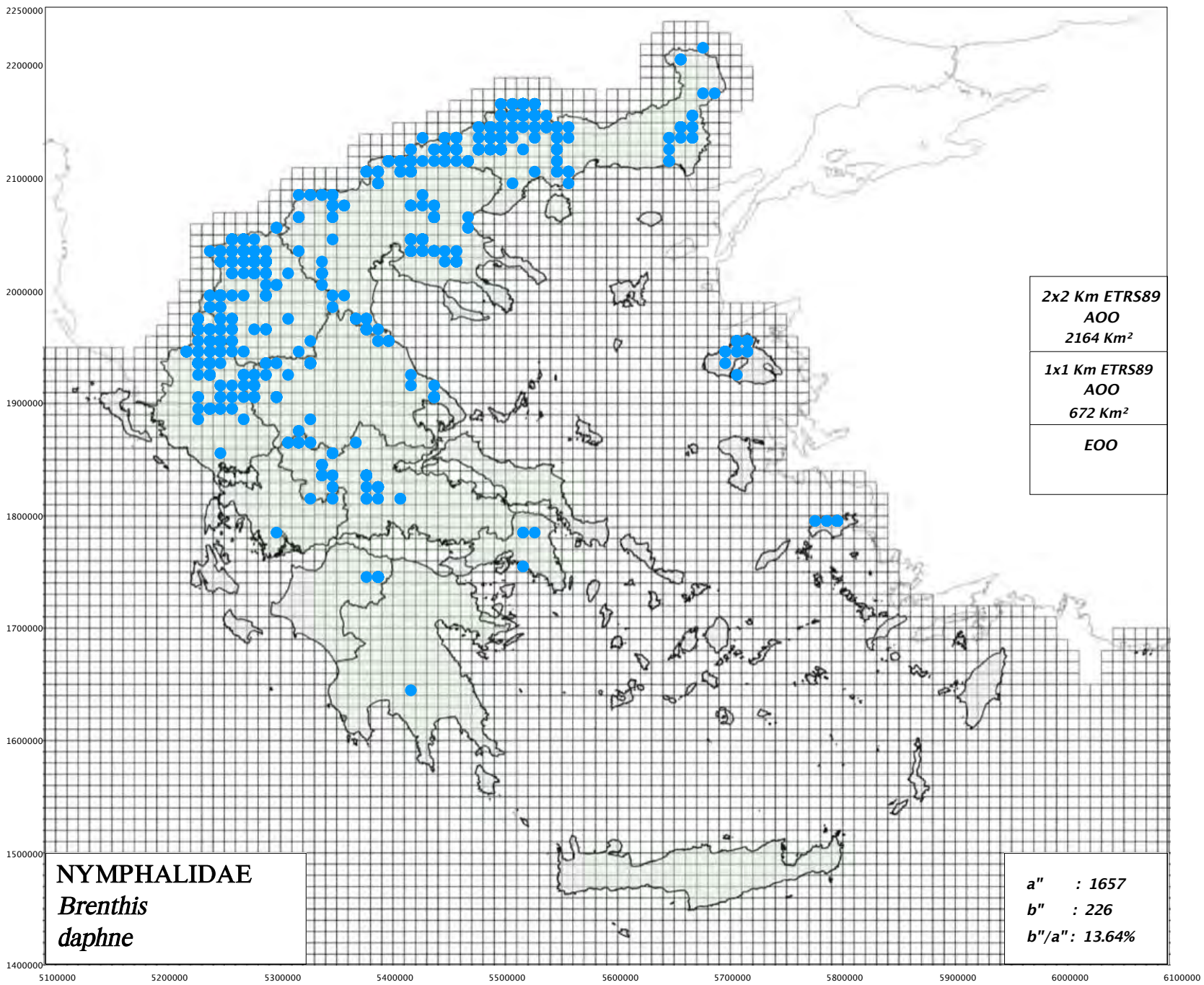




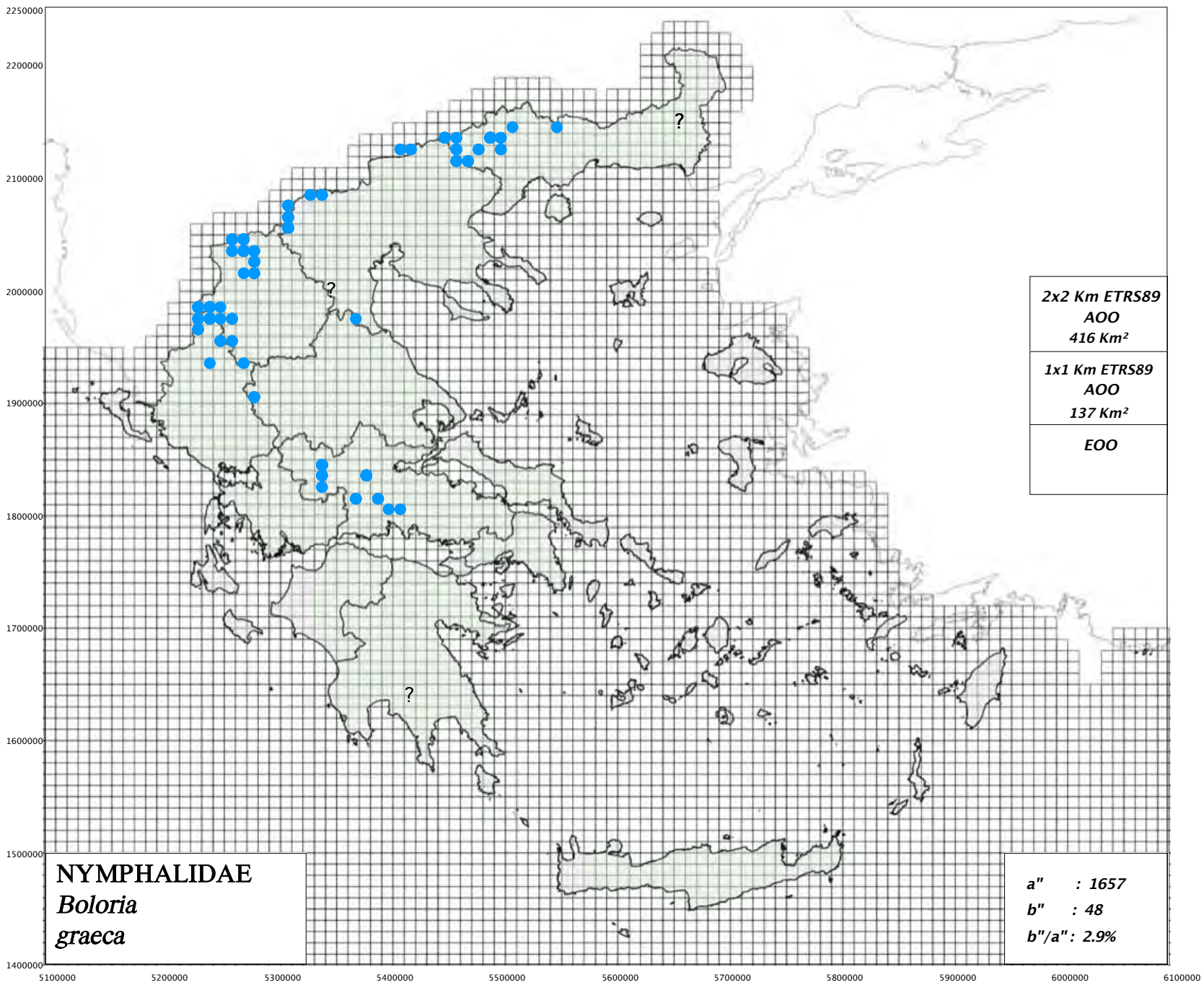


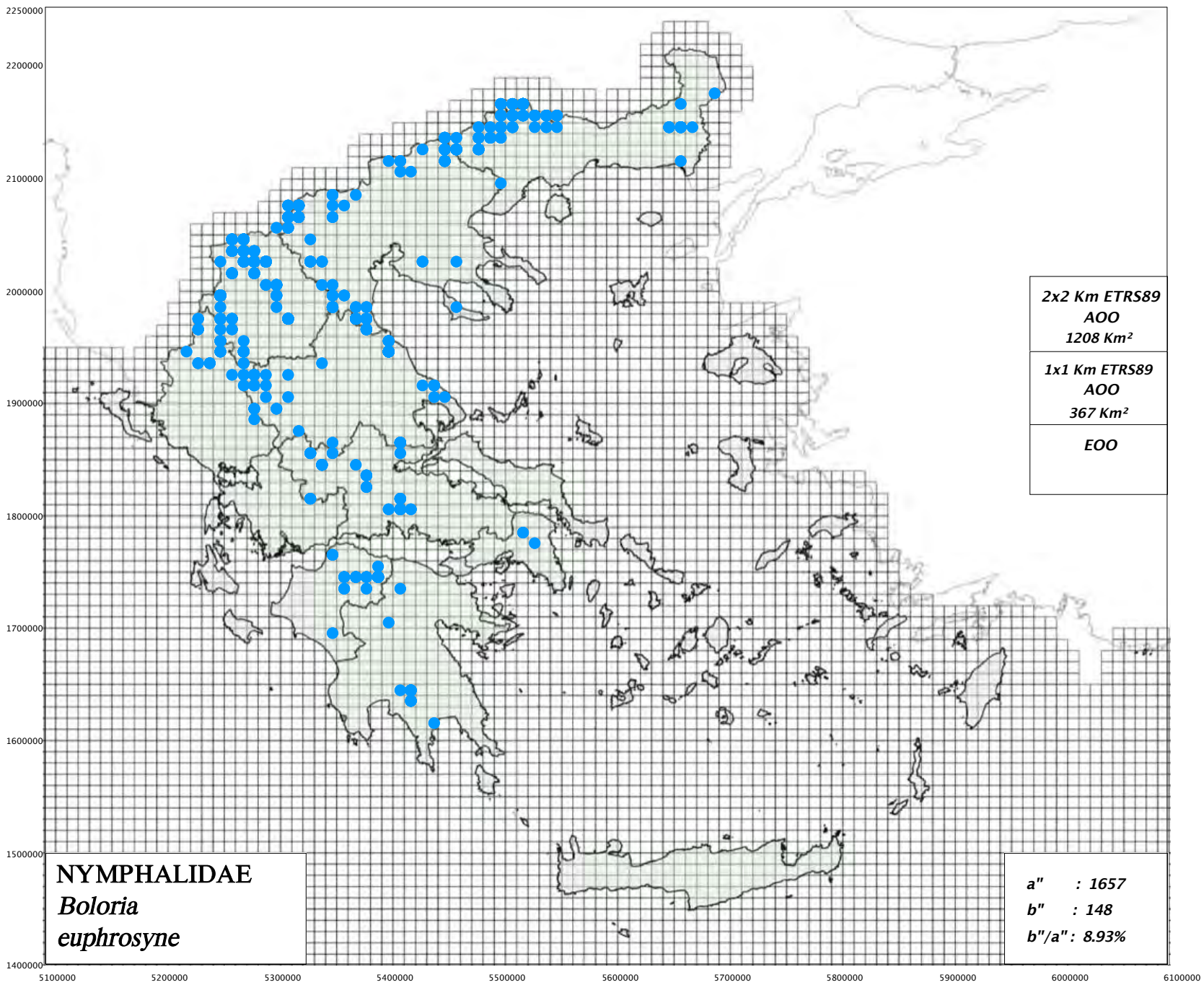




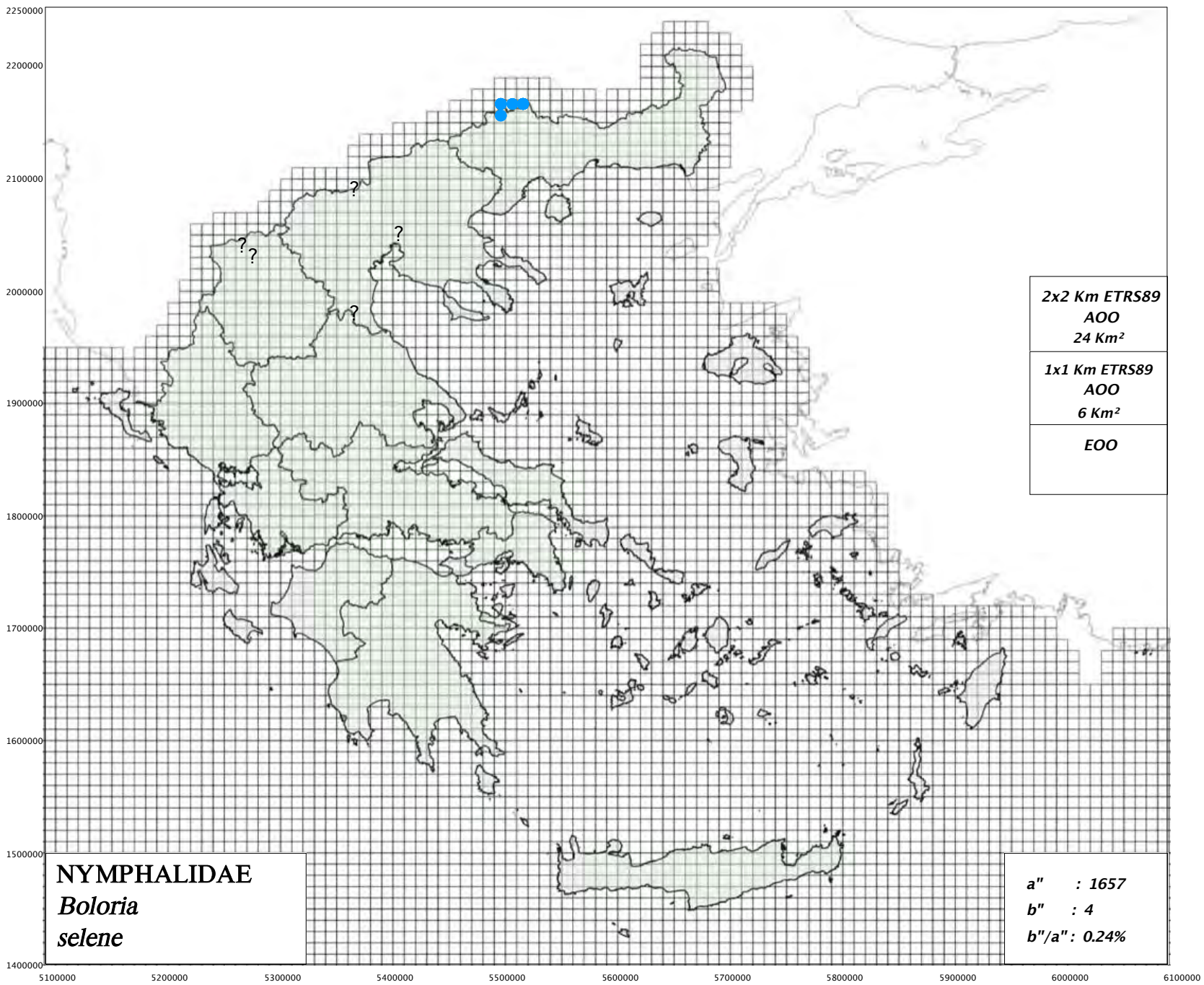


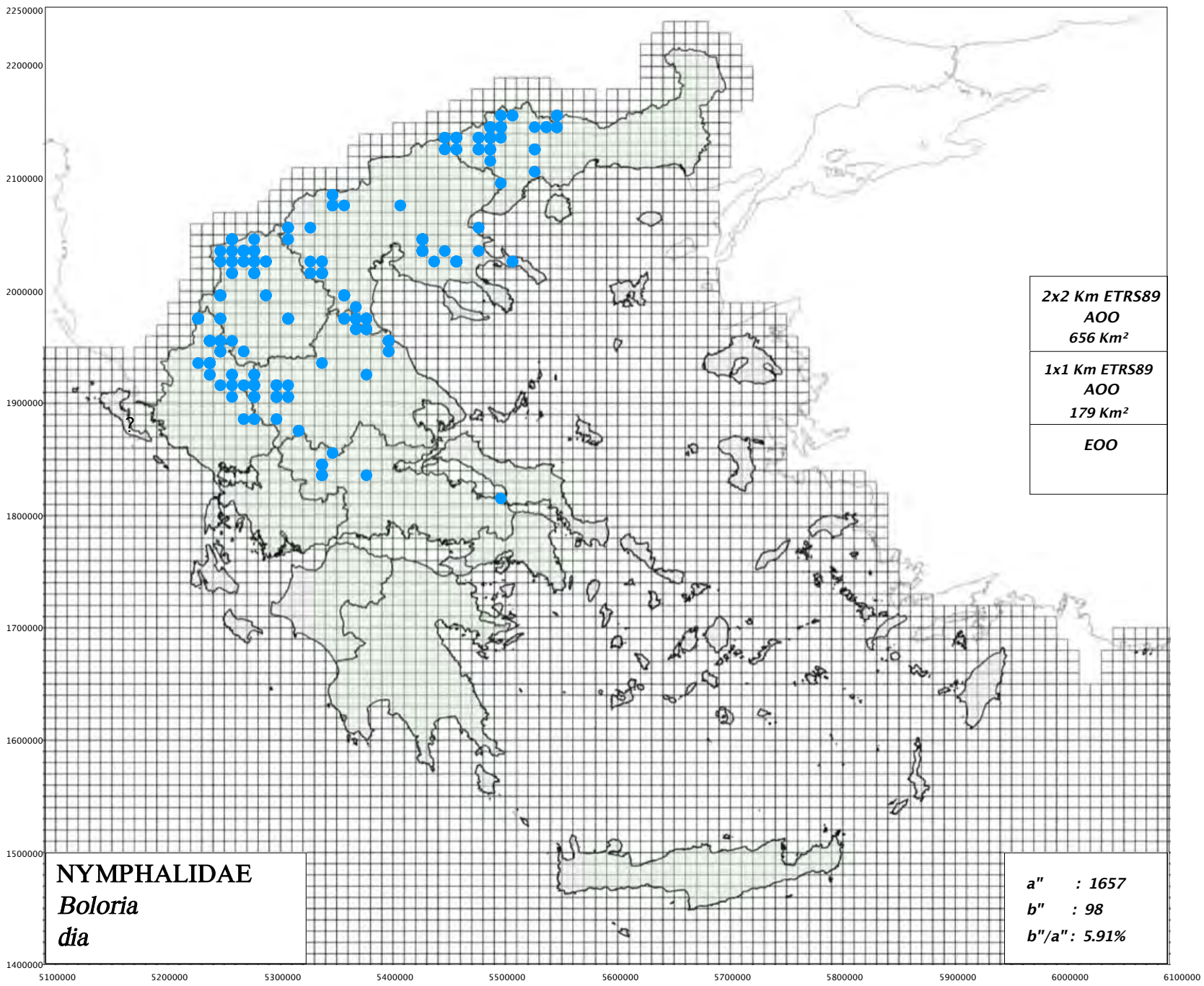




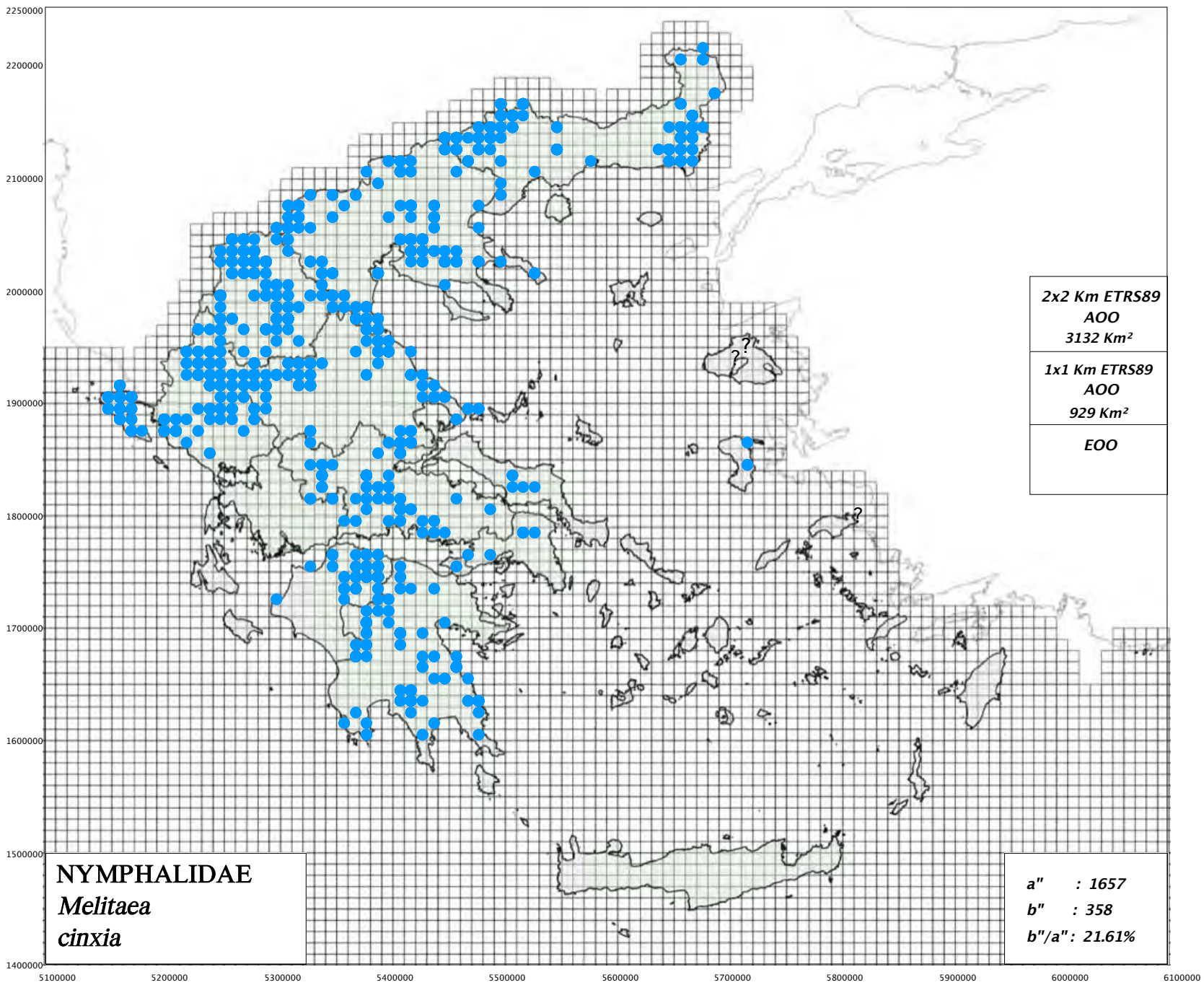


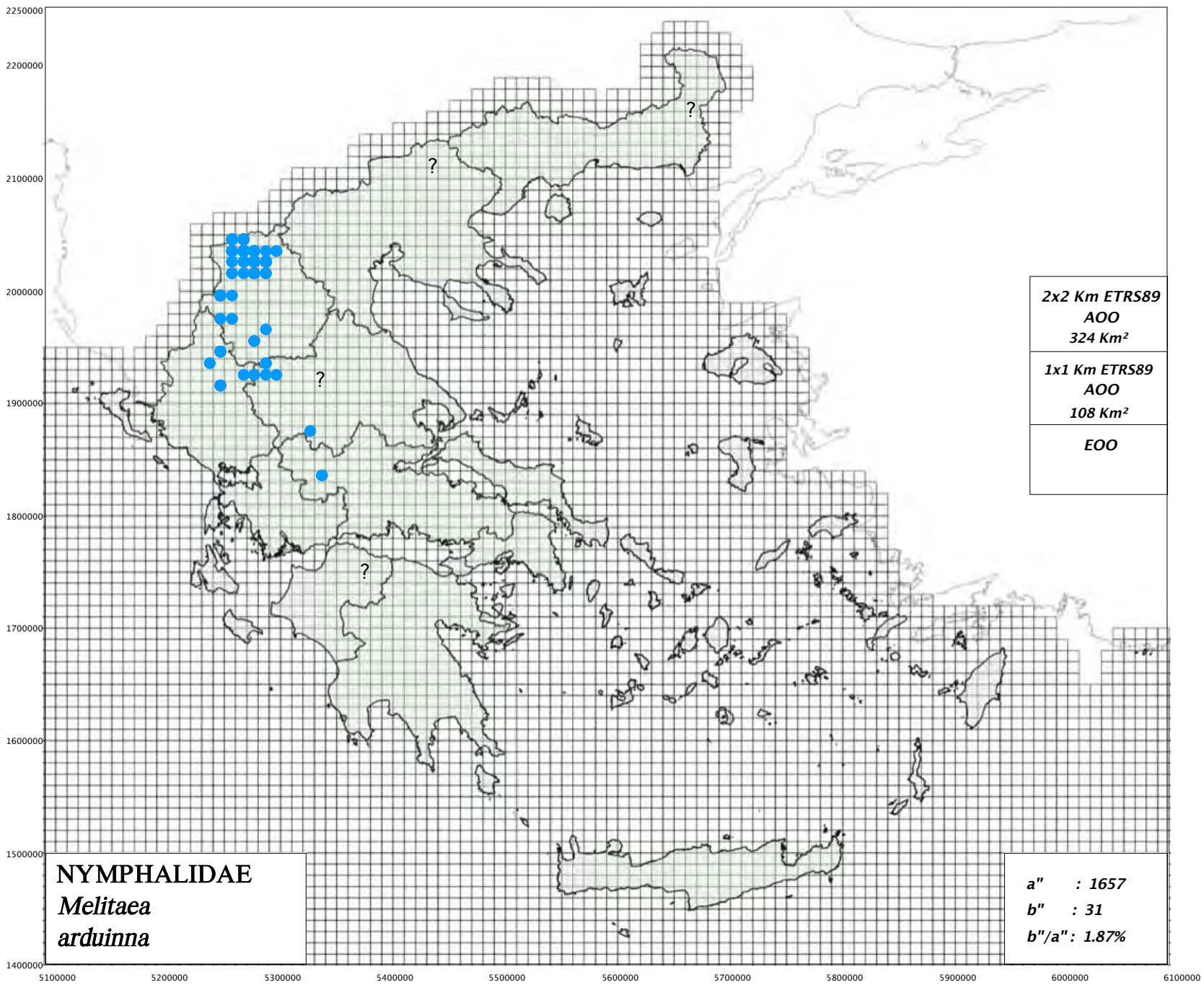












**NYMPHALIDAE**  
*Melitaea*  
*arduinna*

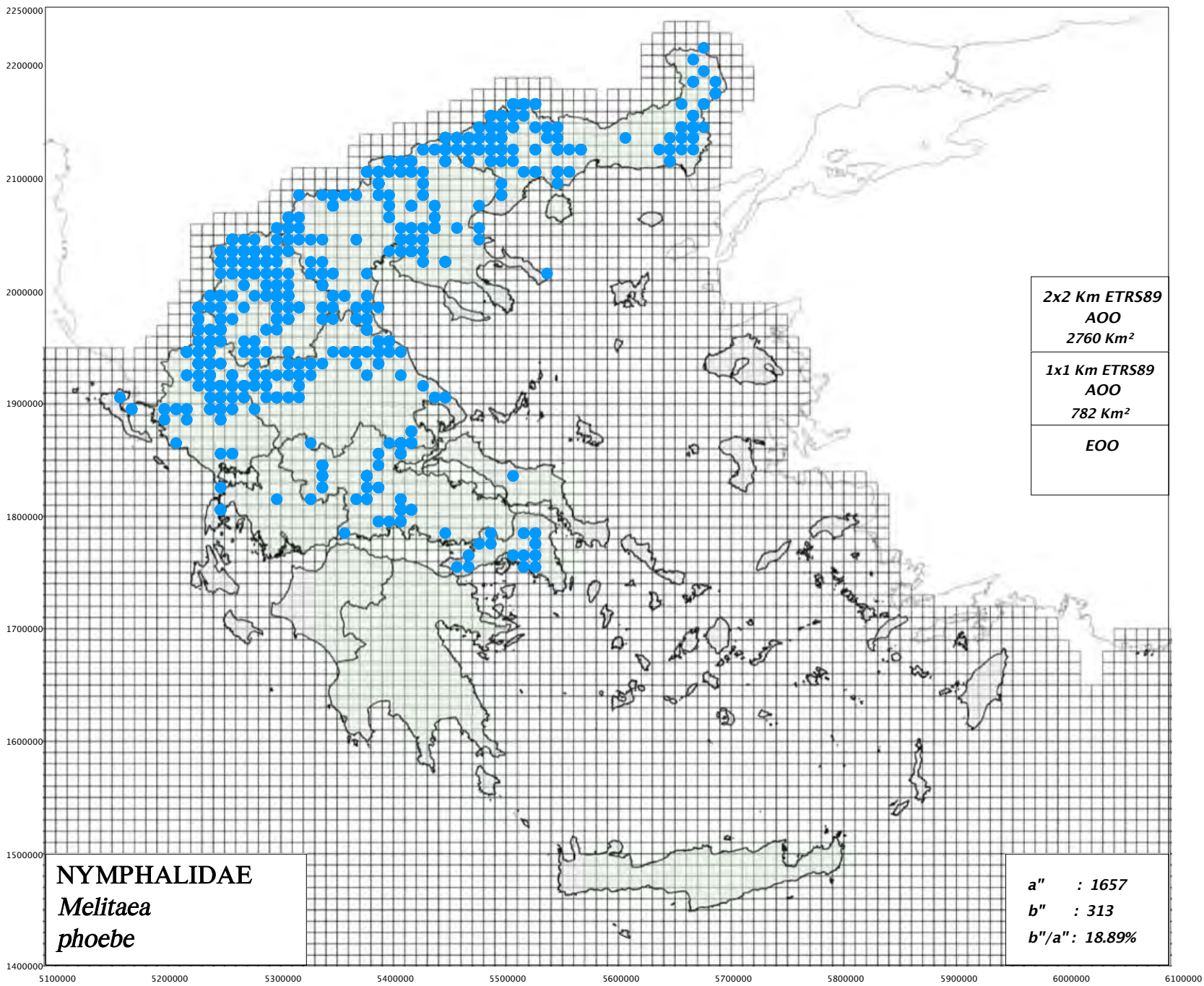
**2x2 Km ETRS89**  
**AOO**  
**324 Km<sup>2</sup>**

**1x1 Km ETRS89**  
**AOO**  
**108 Km<sup>2</sup>**

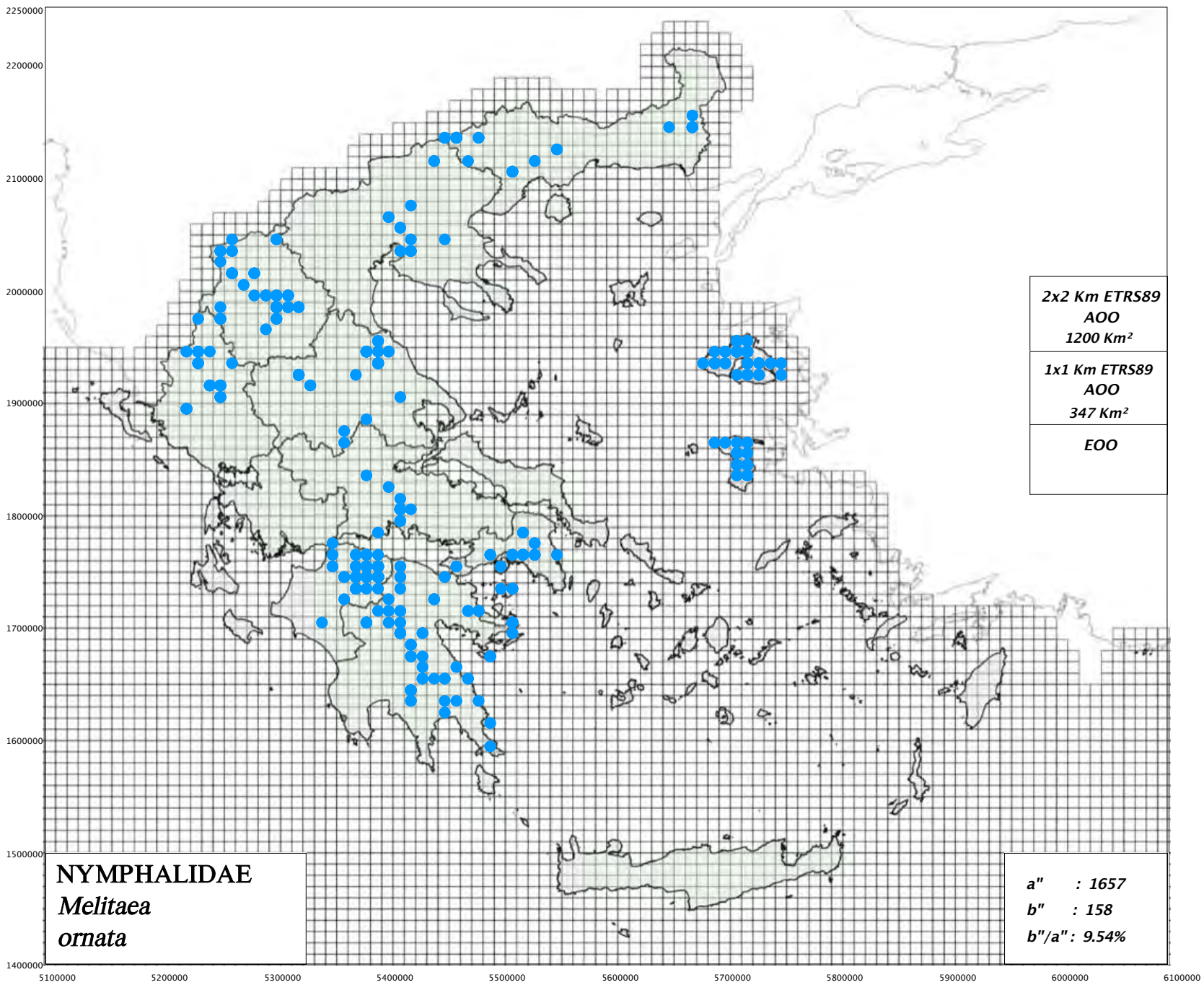
**EOO**

**a" : 1657**  
**b" : 31**  
**b"/a": 1.87%**



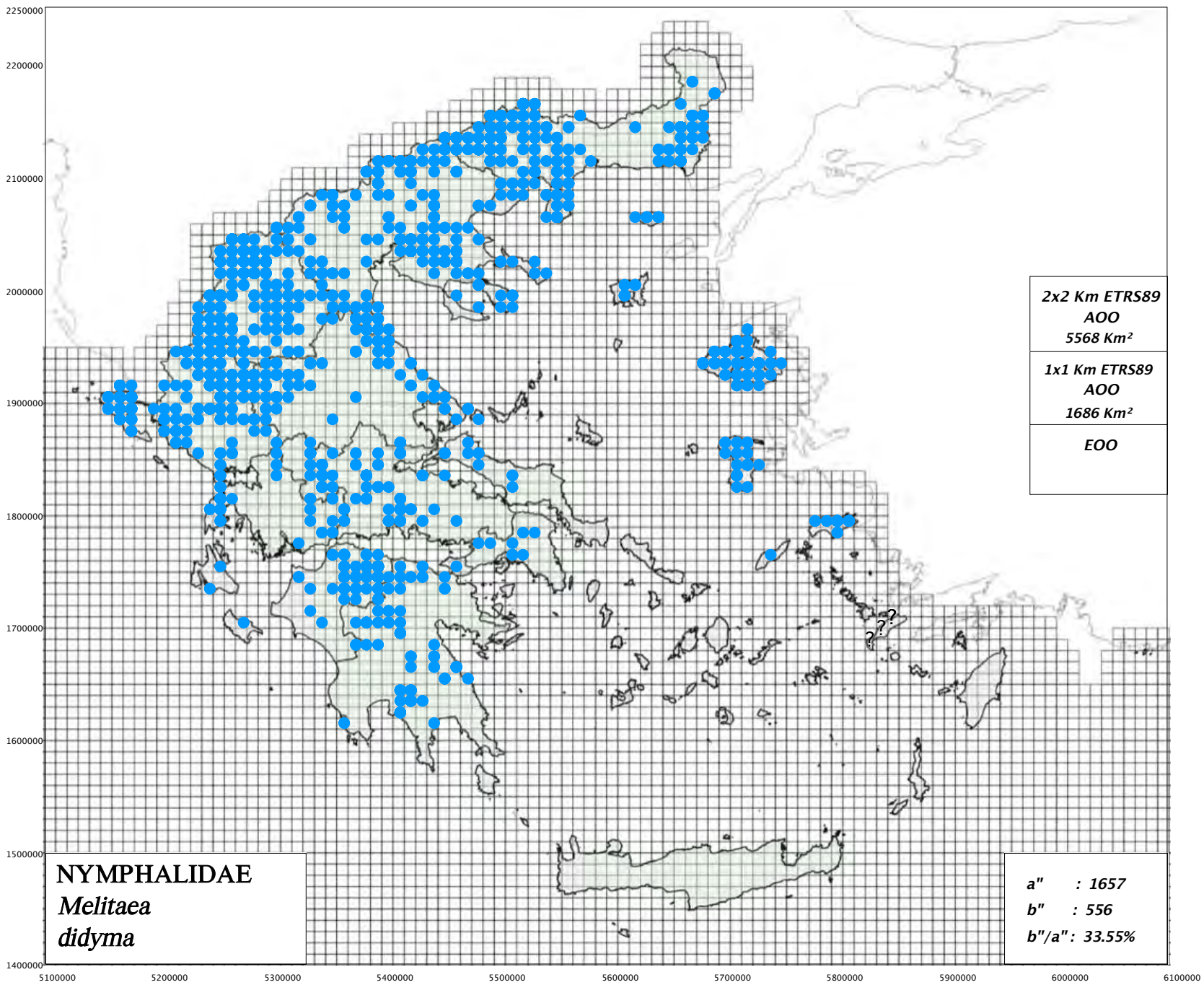


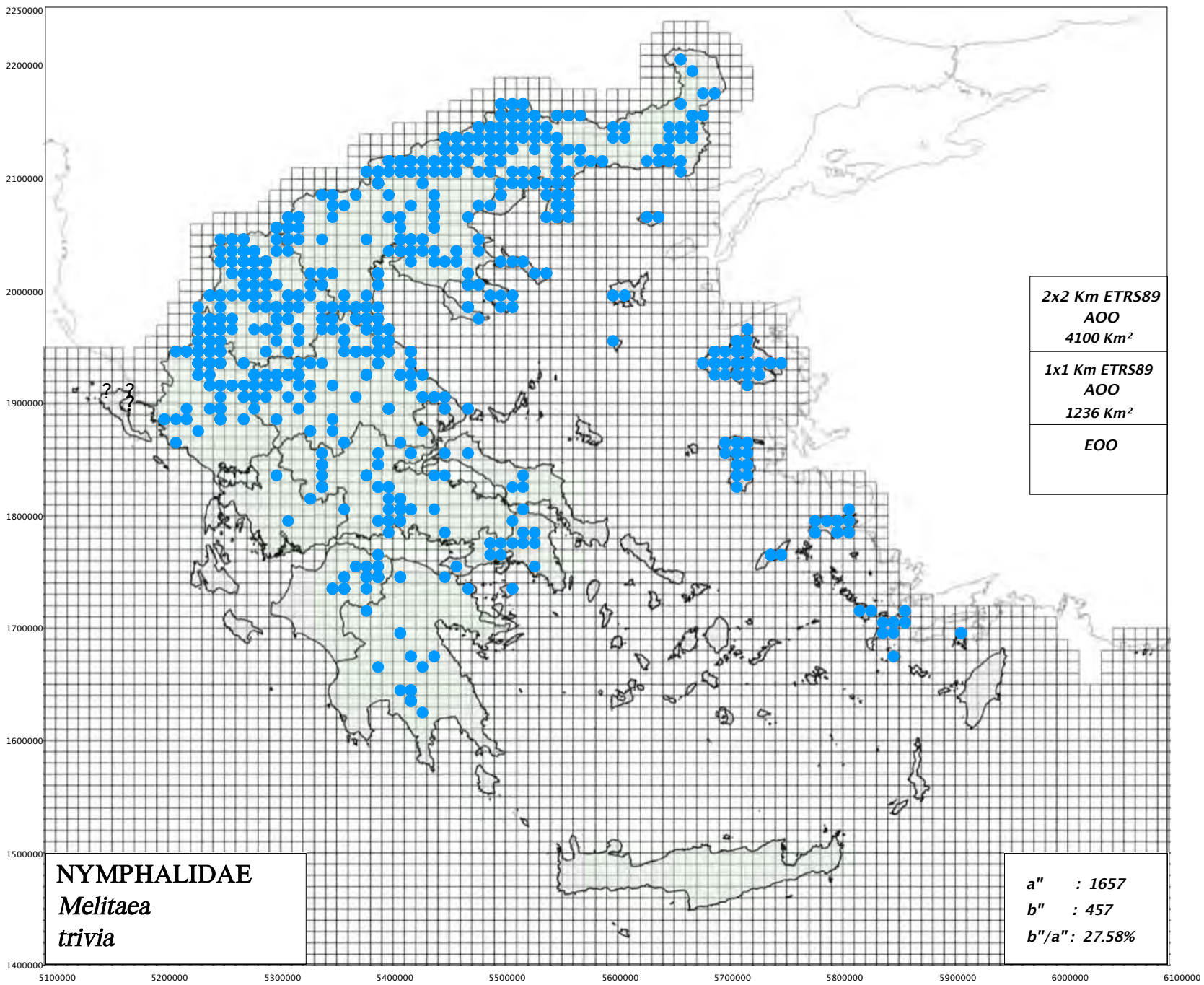
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[https://www.pamperis.gr/PHOTOGRAPHS/Melitaea\\_phoebe,\\_Melitaea\\_ornata.html](https://www.pamperis.gr/PHOTOGRAPHS/Melitaea_phoebe,_Melitaea_ornata.html)

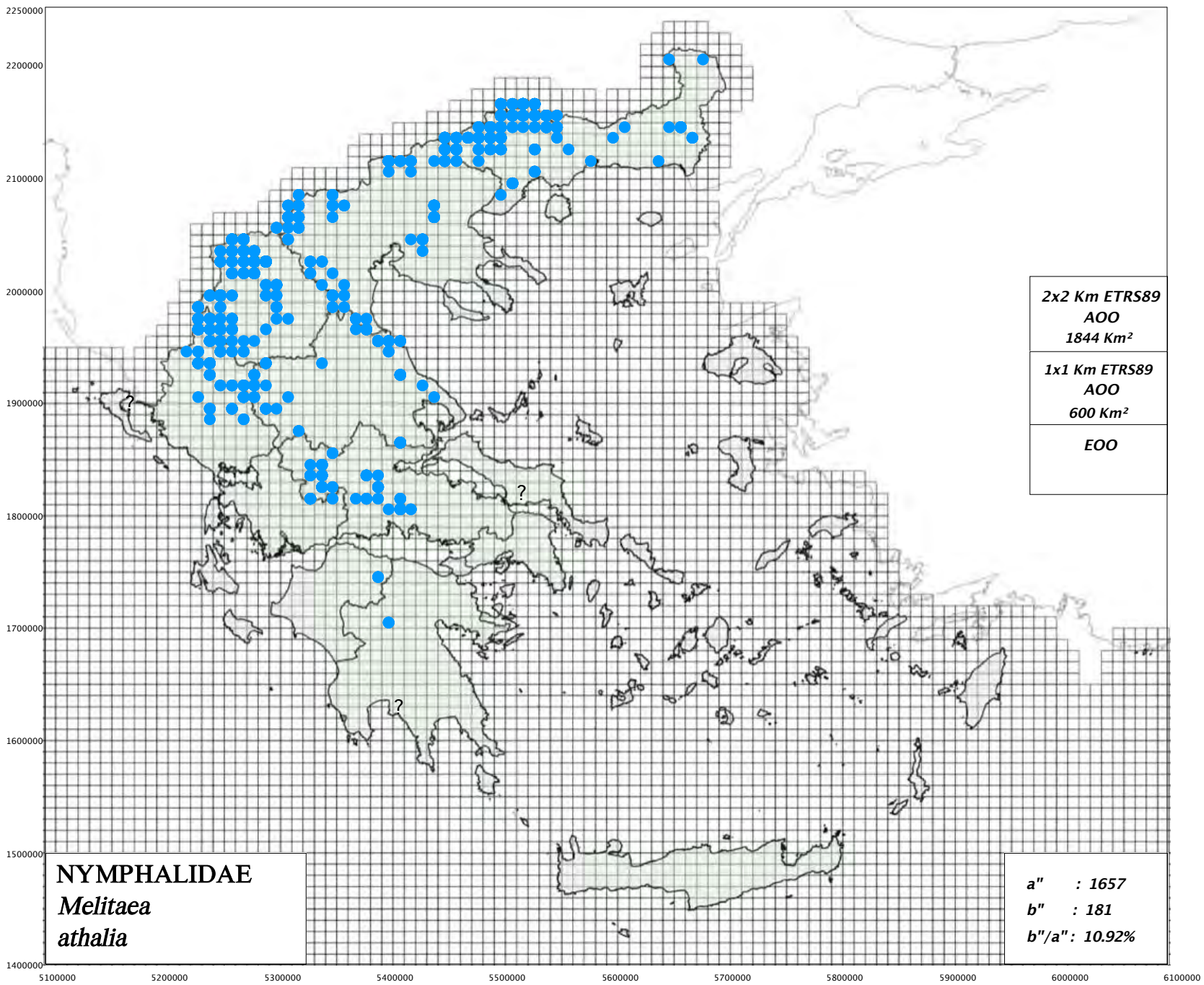






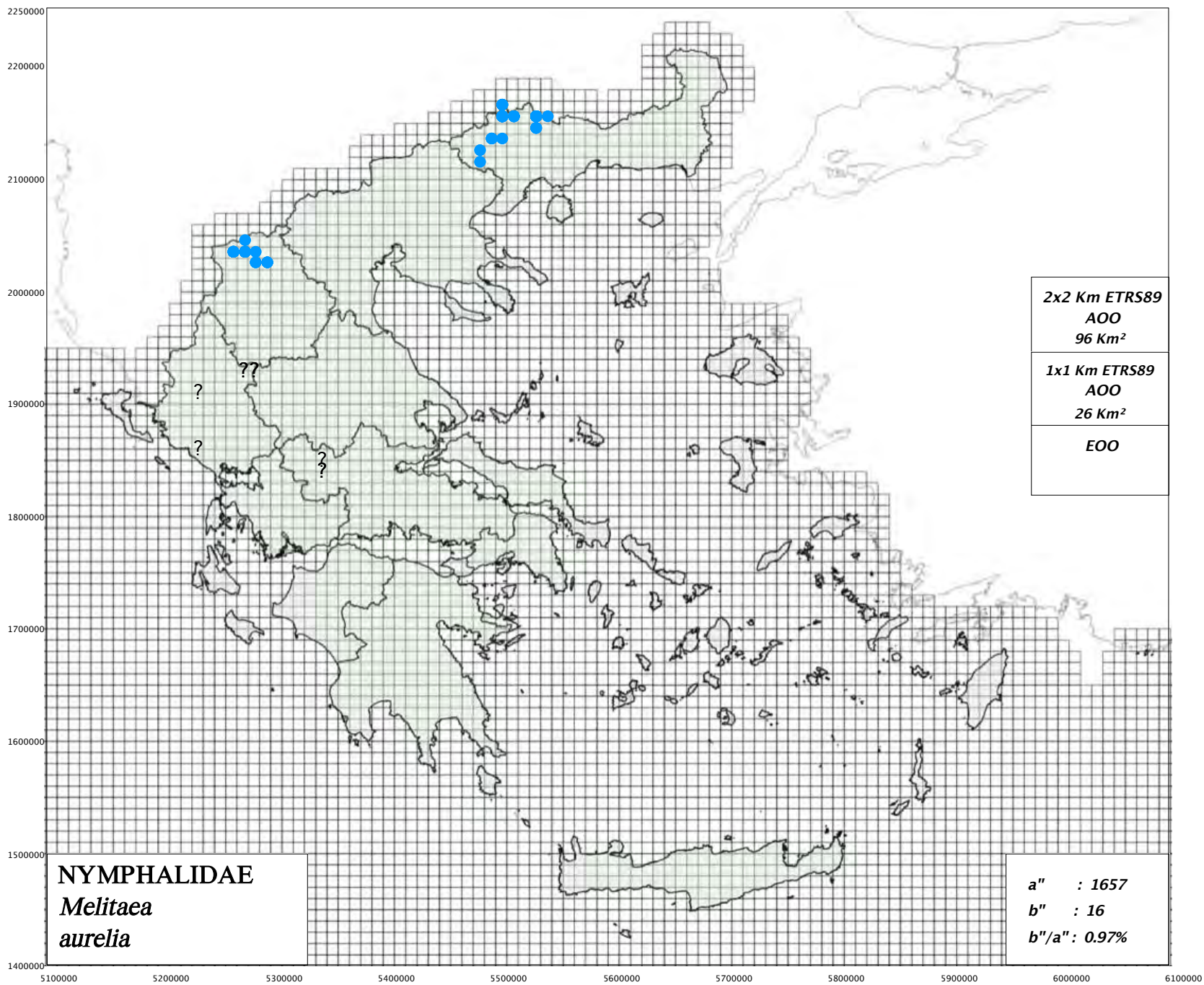
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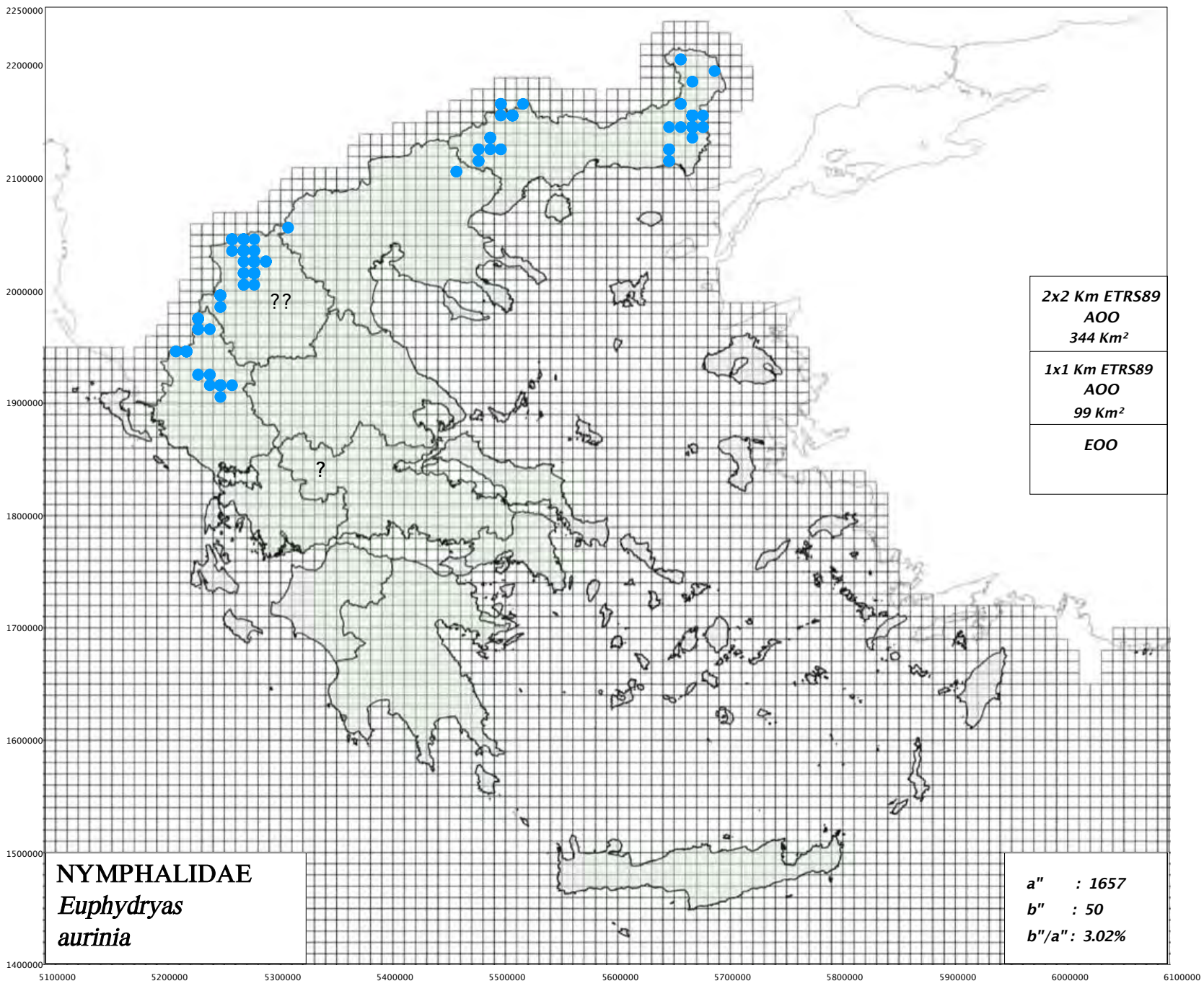
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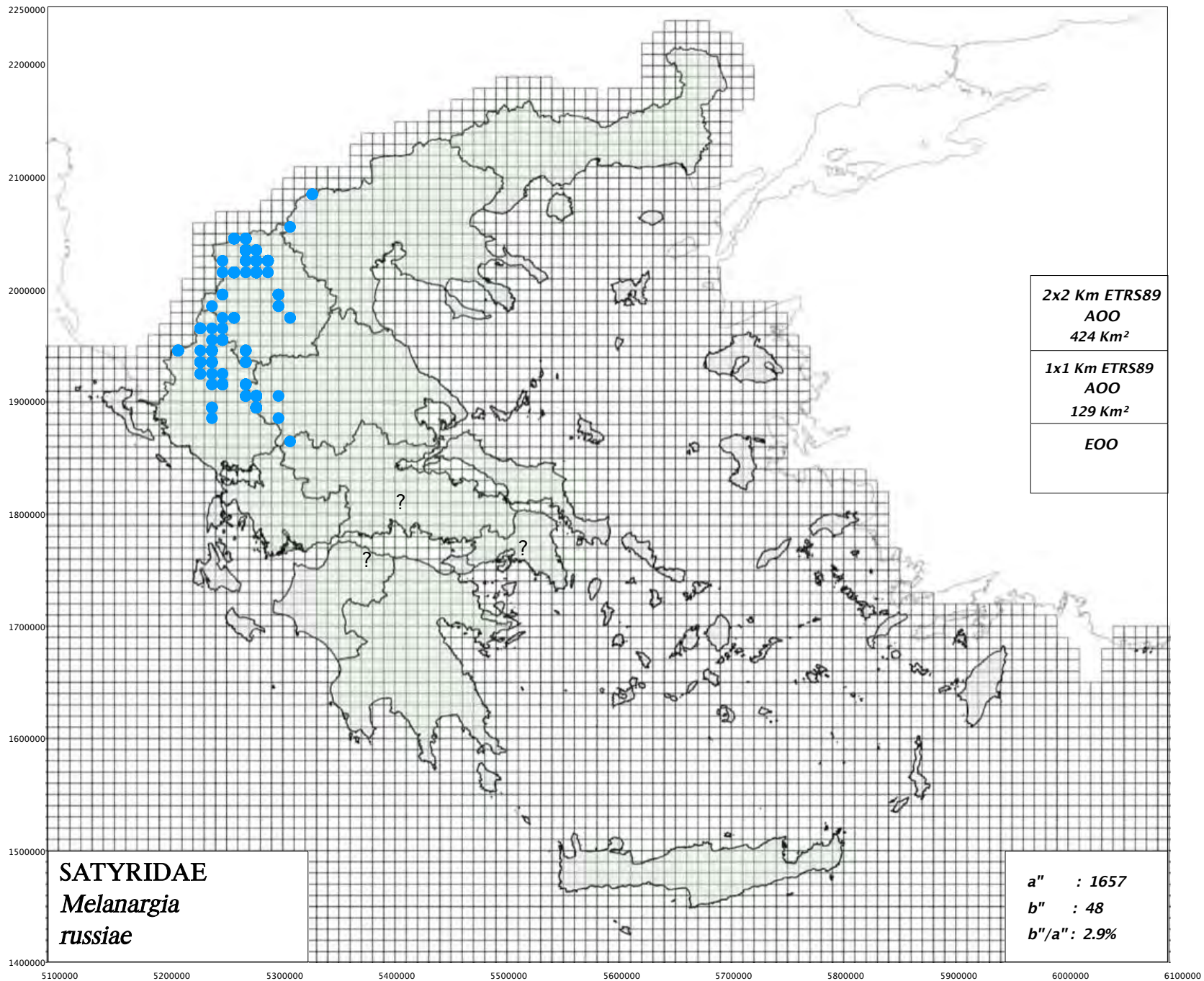
Αμφίβολη αναγνώριση /  
Identification Uncertain



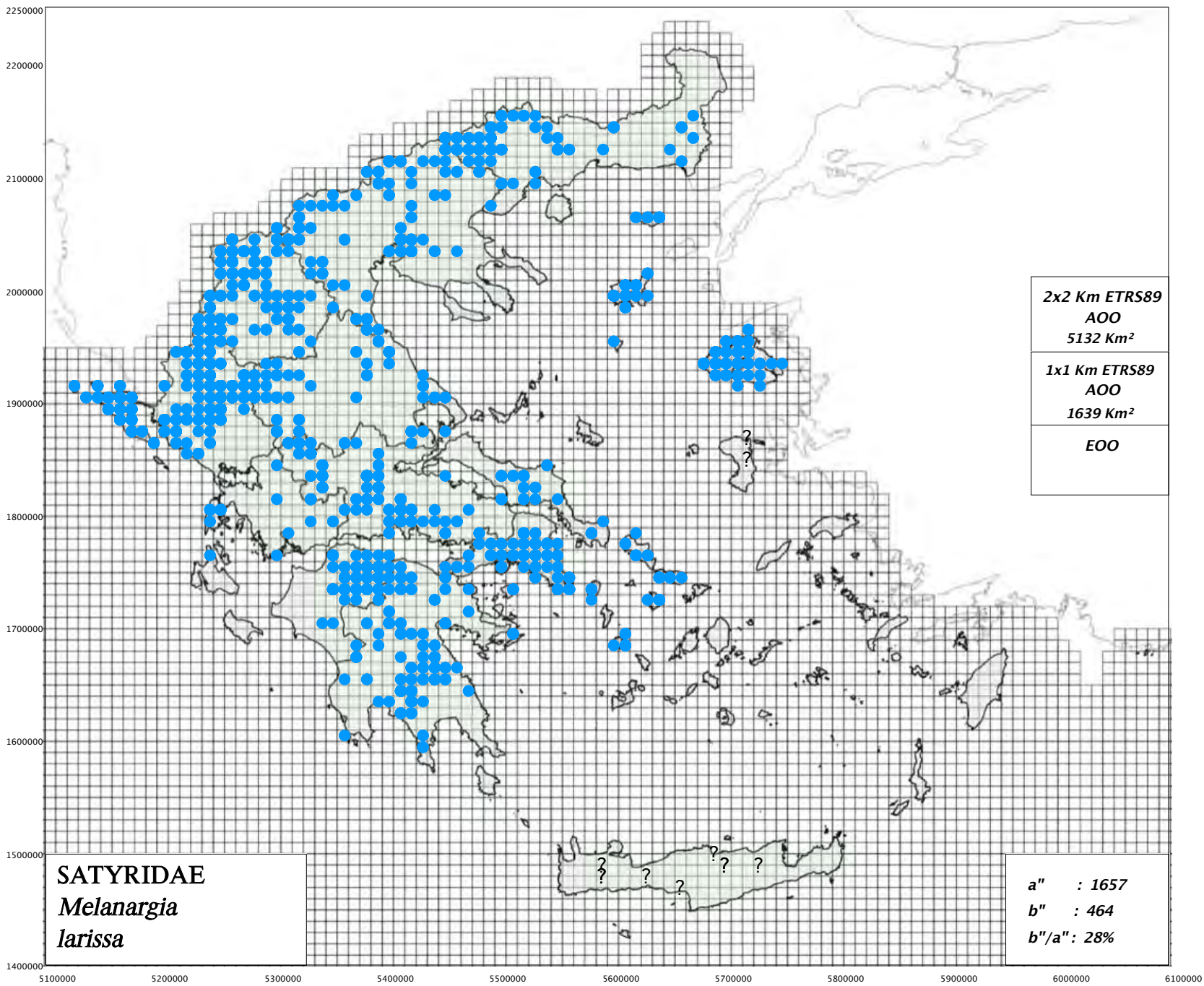
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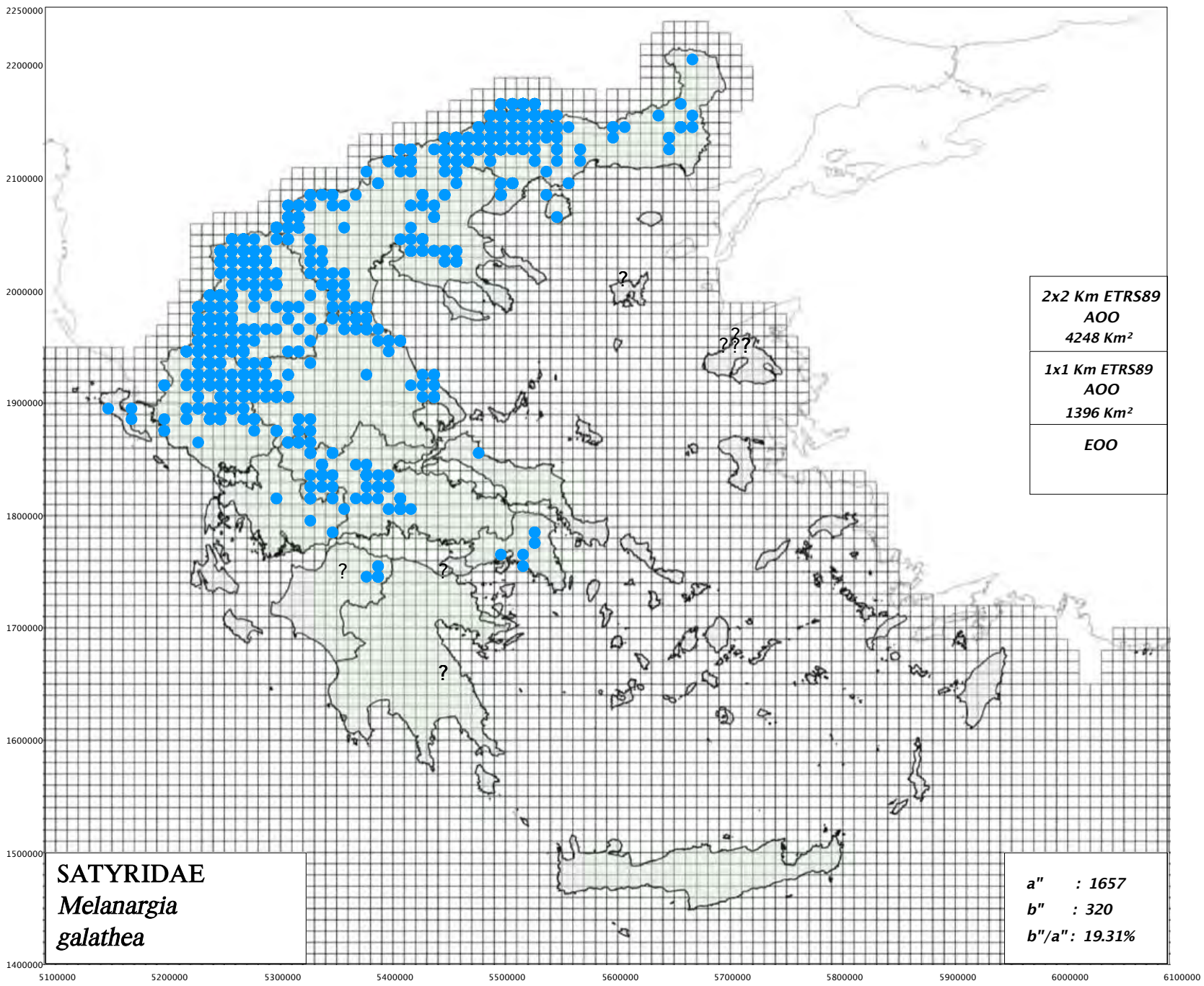




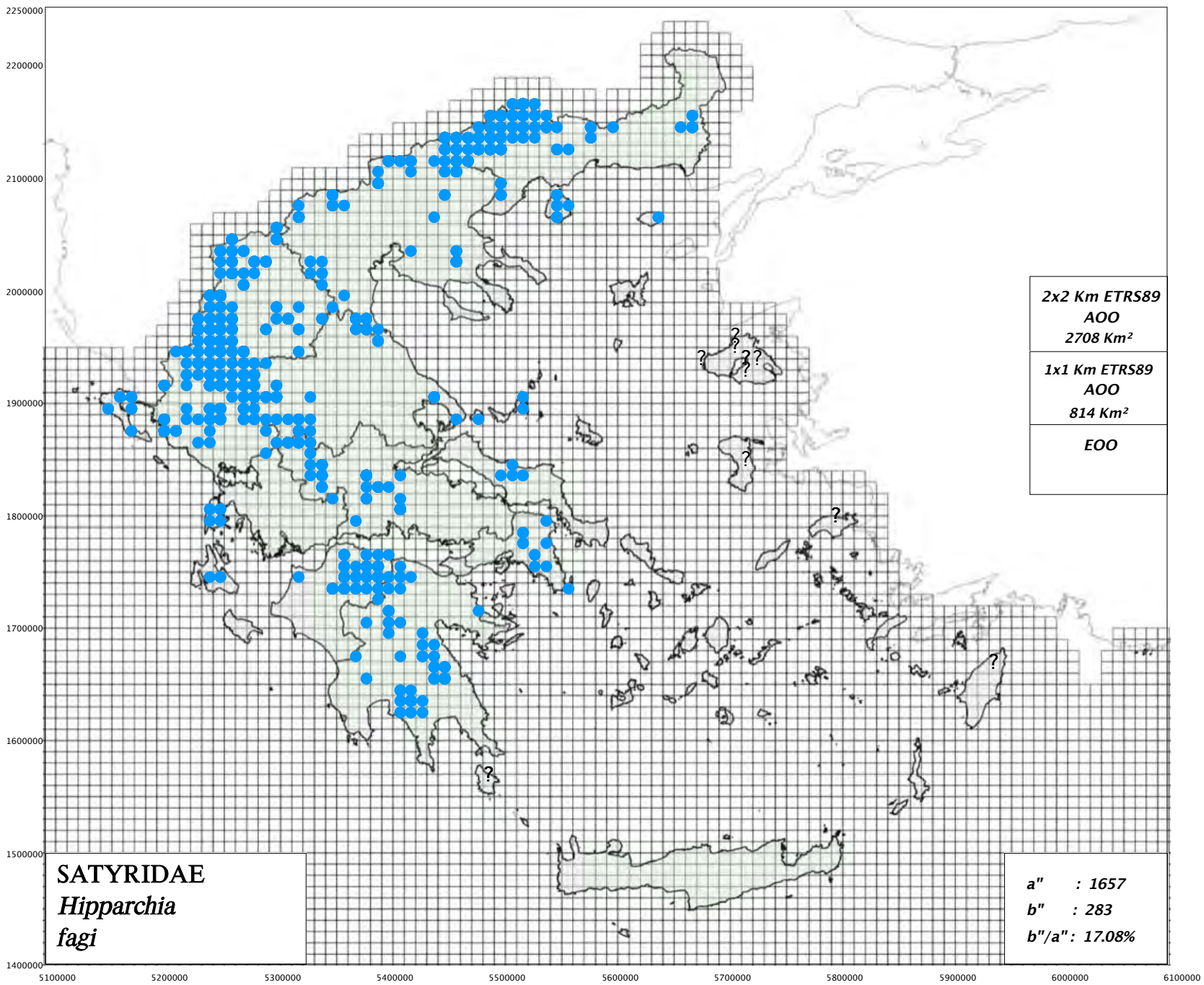




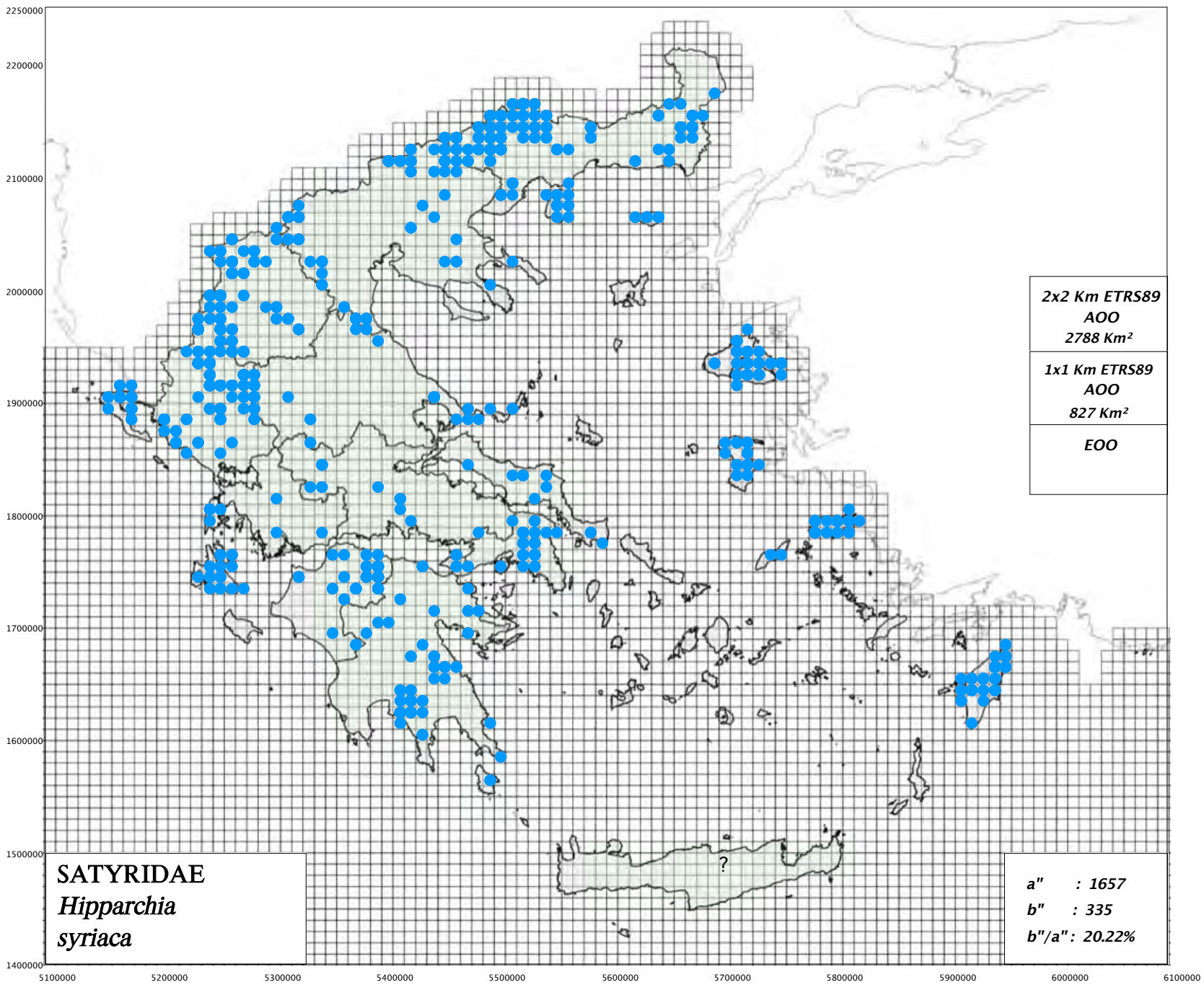








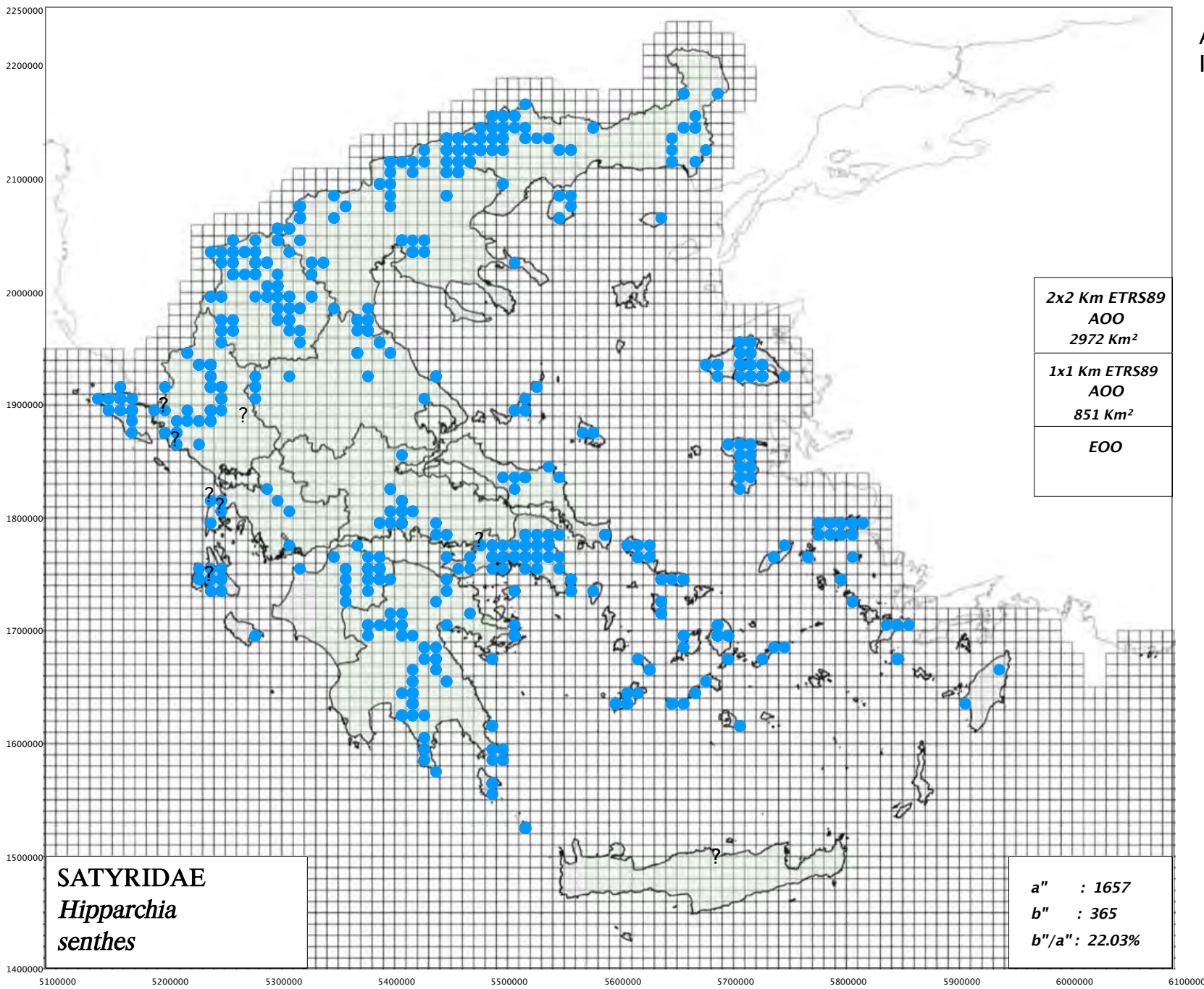
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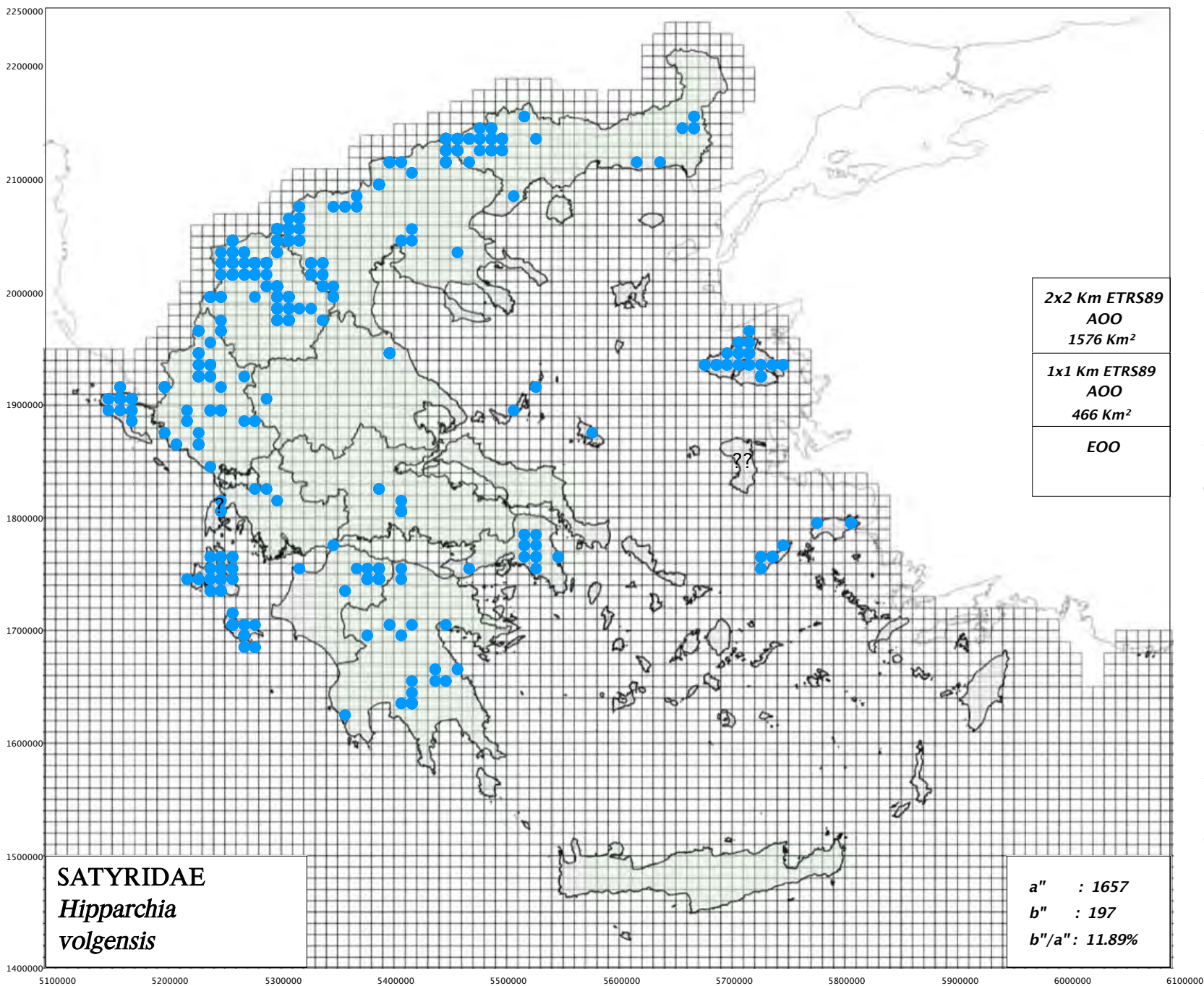
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Αμφίβολη αναγνώριση /  
Identification Uncertain



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

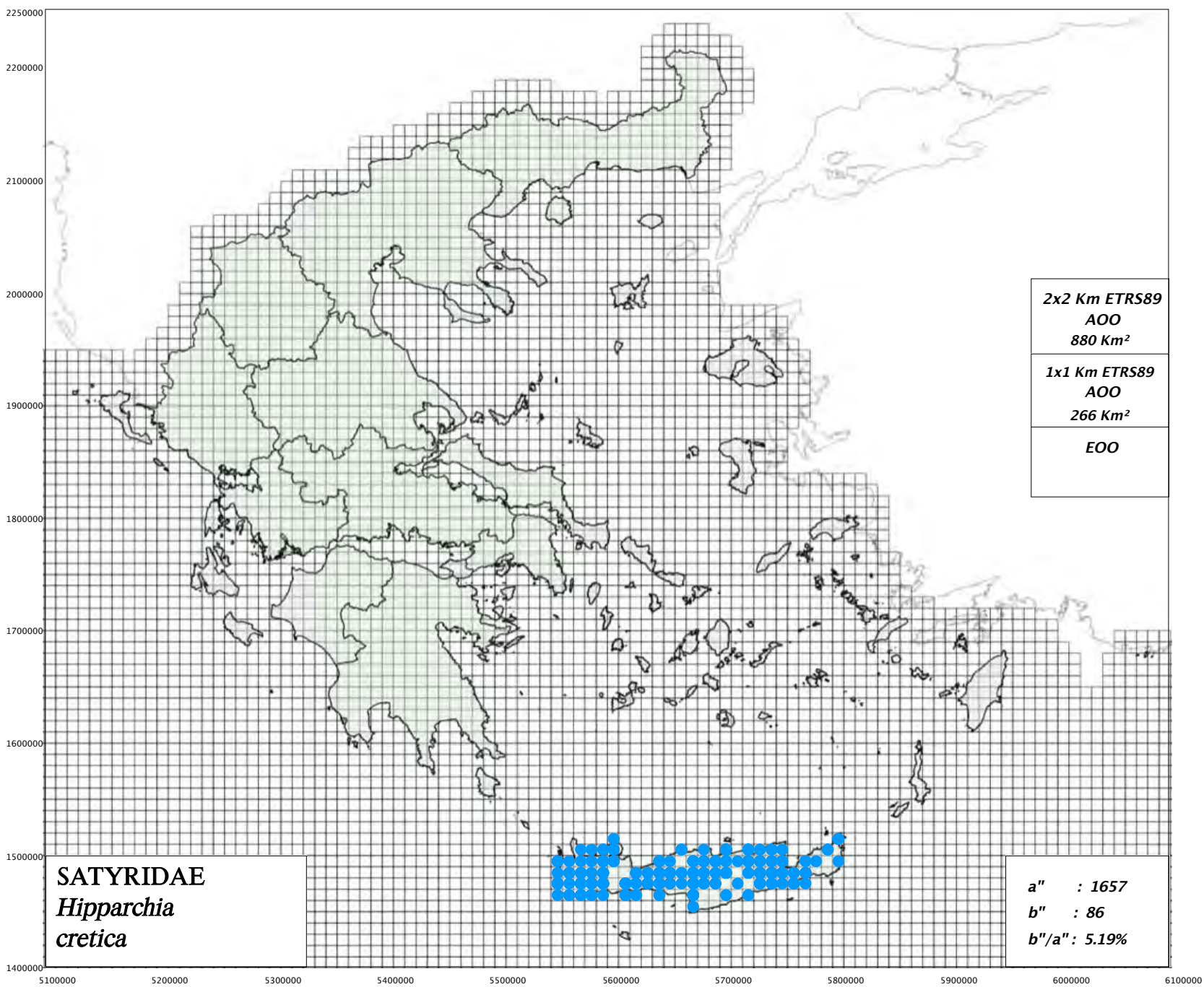


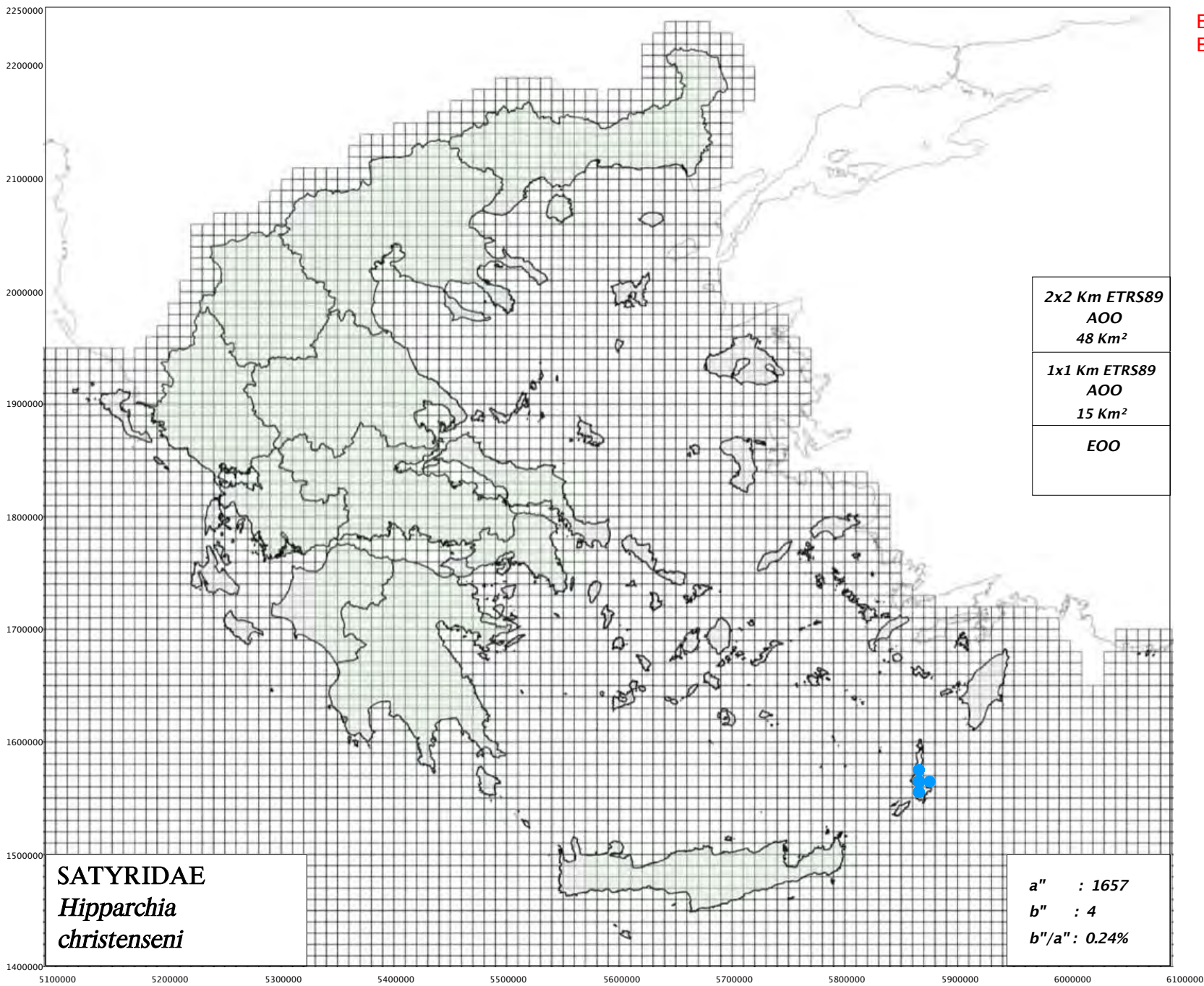
Αμφίβολη αναγνώριση /  
Identification Uncertain

All records of *Hipparchia pellucida*, found that is not present in Greece (see in, with is 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 Ikaría (Lepidoptera: Nymphalidae, Satyrinae). *Phegea* 46(3): 106–109. ) that is for some Islands of eastern Aegean included temporarily in this Map of (Lesvos, Icaria, Chios and Samos) as records of *Hipparchia volgensis*.

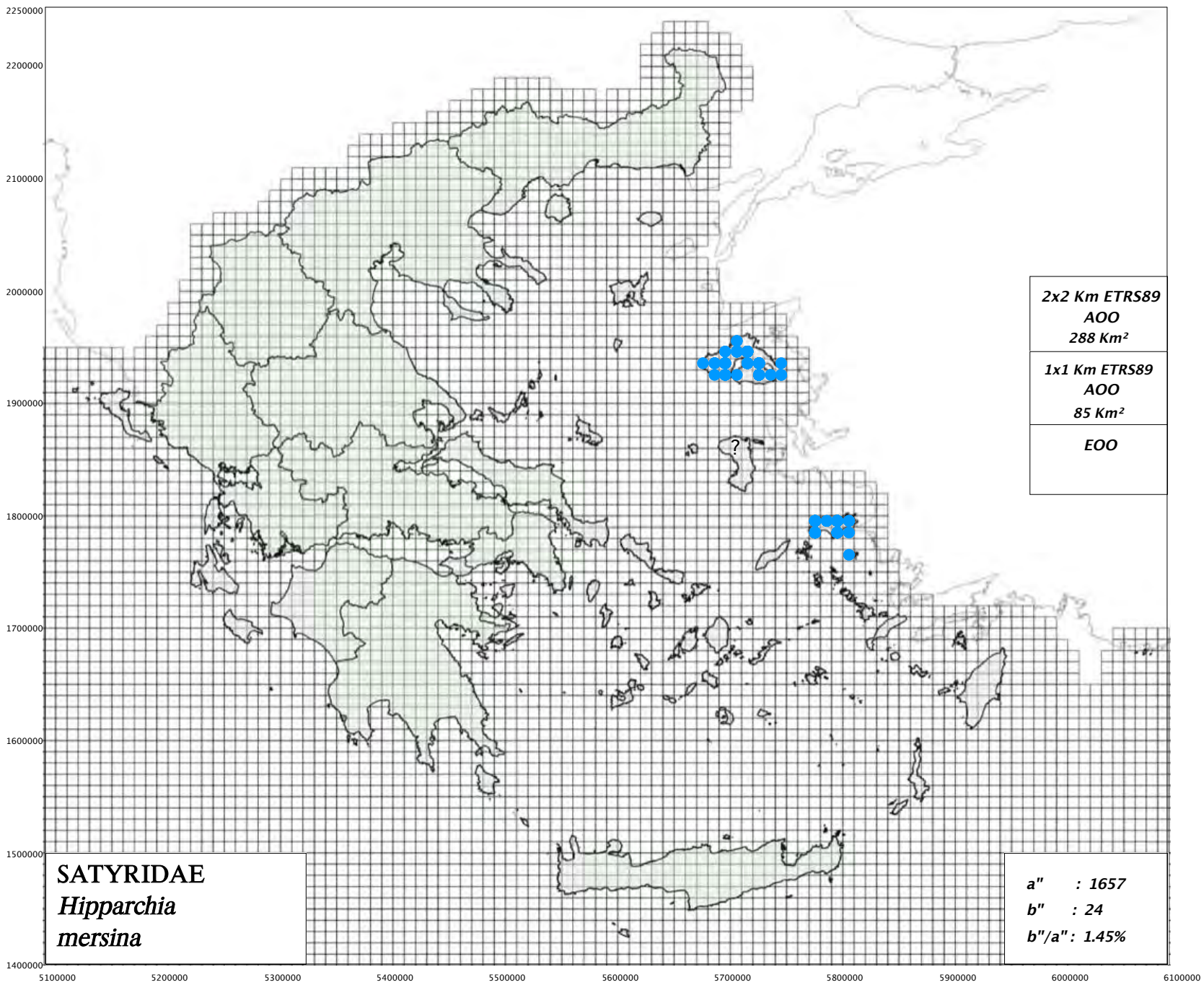
Όλες οι αναφορές για το *Hipparchia pellucida*, το οποίο βρέθηκε ότι δεν υπάρχει στην Ελλάδα (δες στο COUTSIS J. G. & BOZANO G. C.: The true identity butterflies originally recorded as *Hipparchia* (*Parahipparchia*) *pellucida* (Stauder, 1923) from the Eastern Aegean Greek islands of Lézvos and Ikaría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



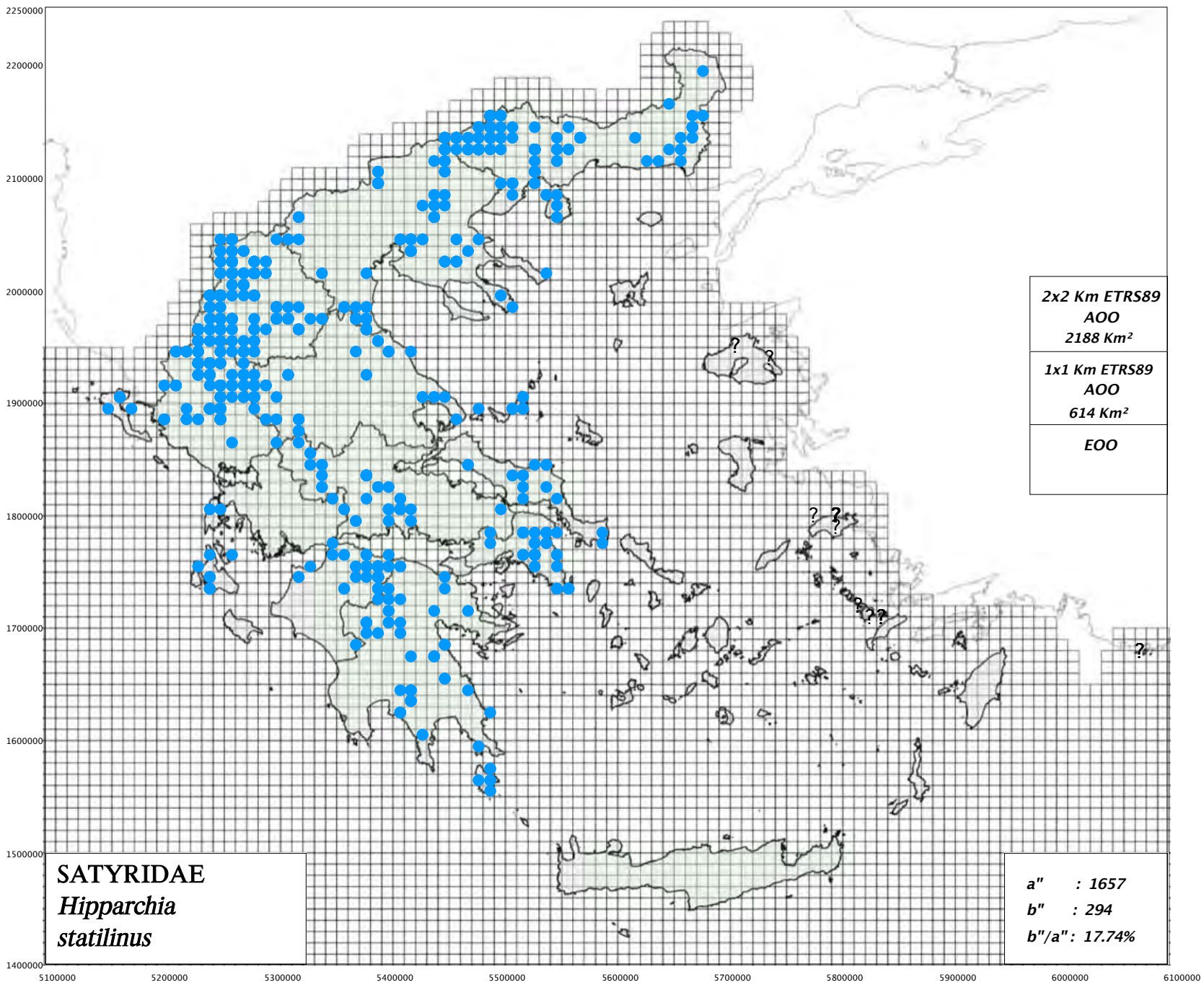






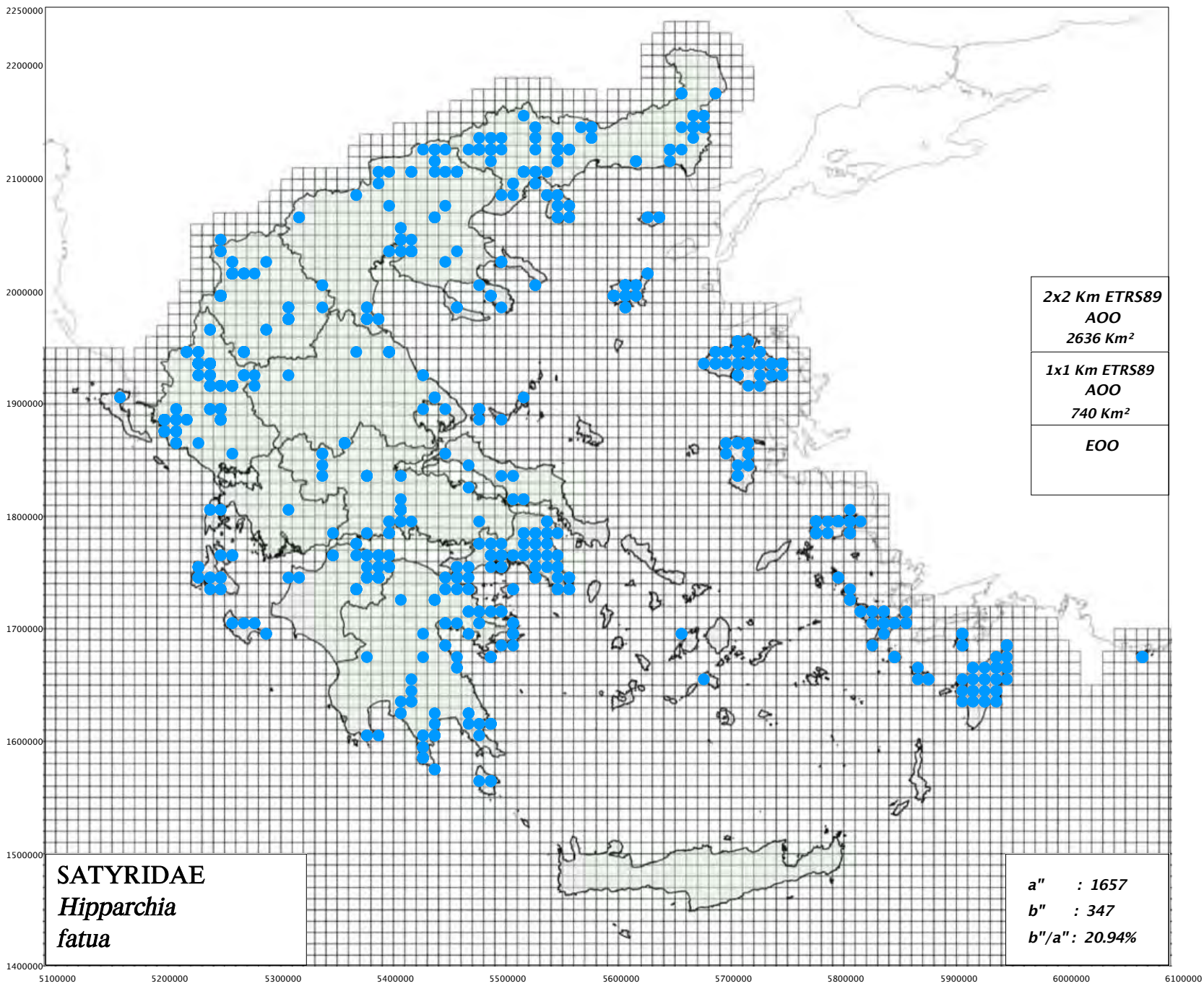


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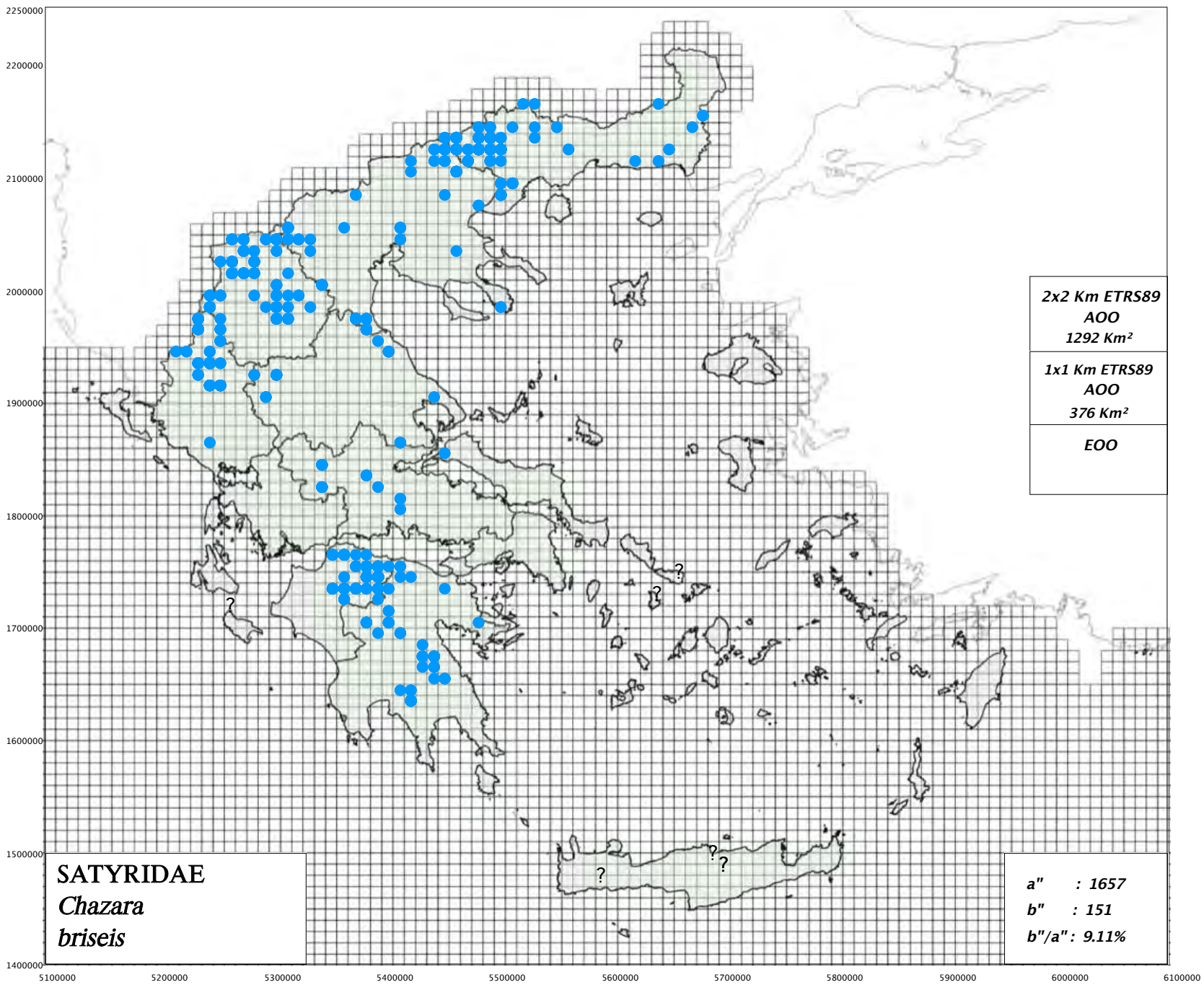


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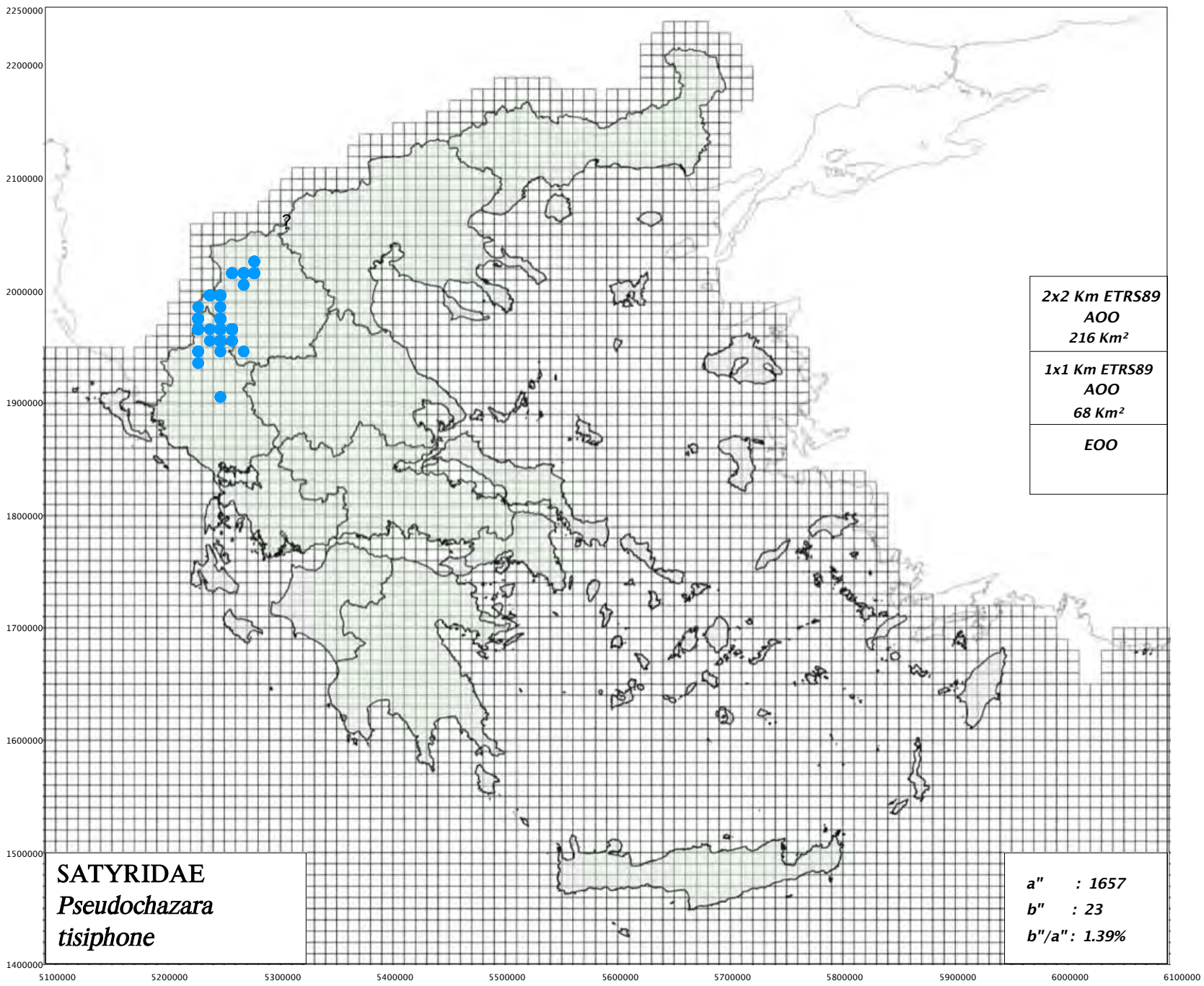




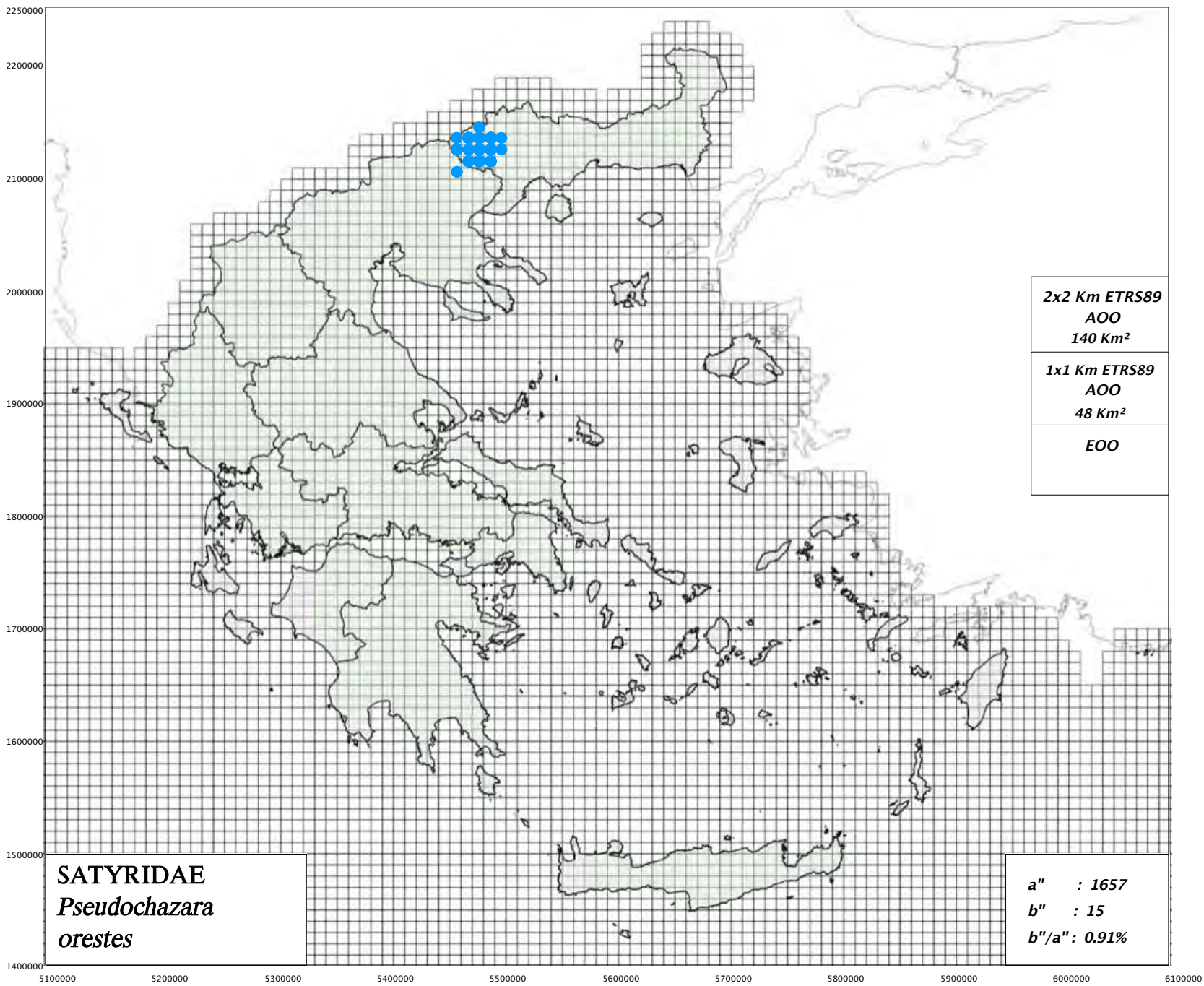
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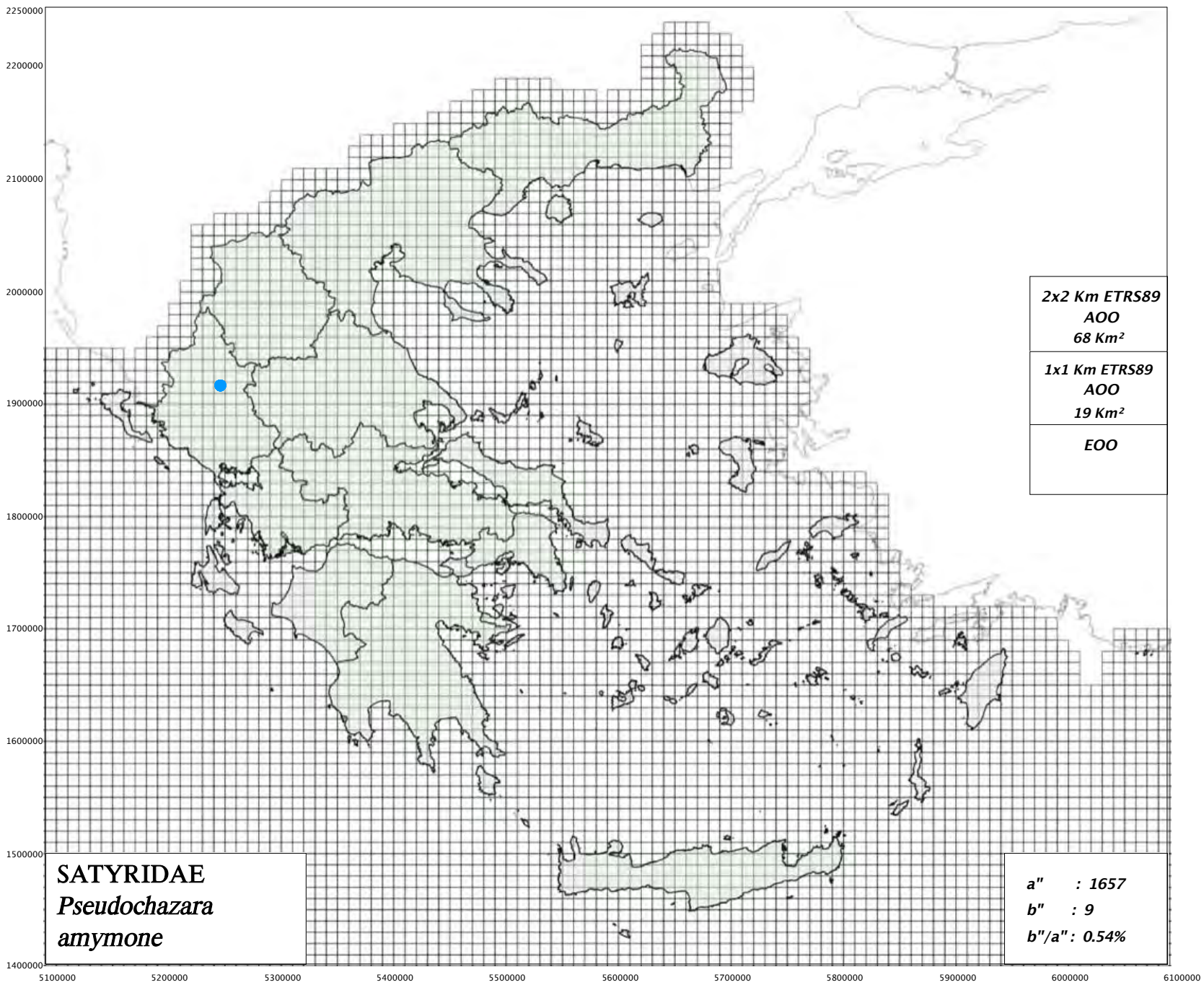


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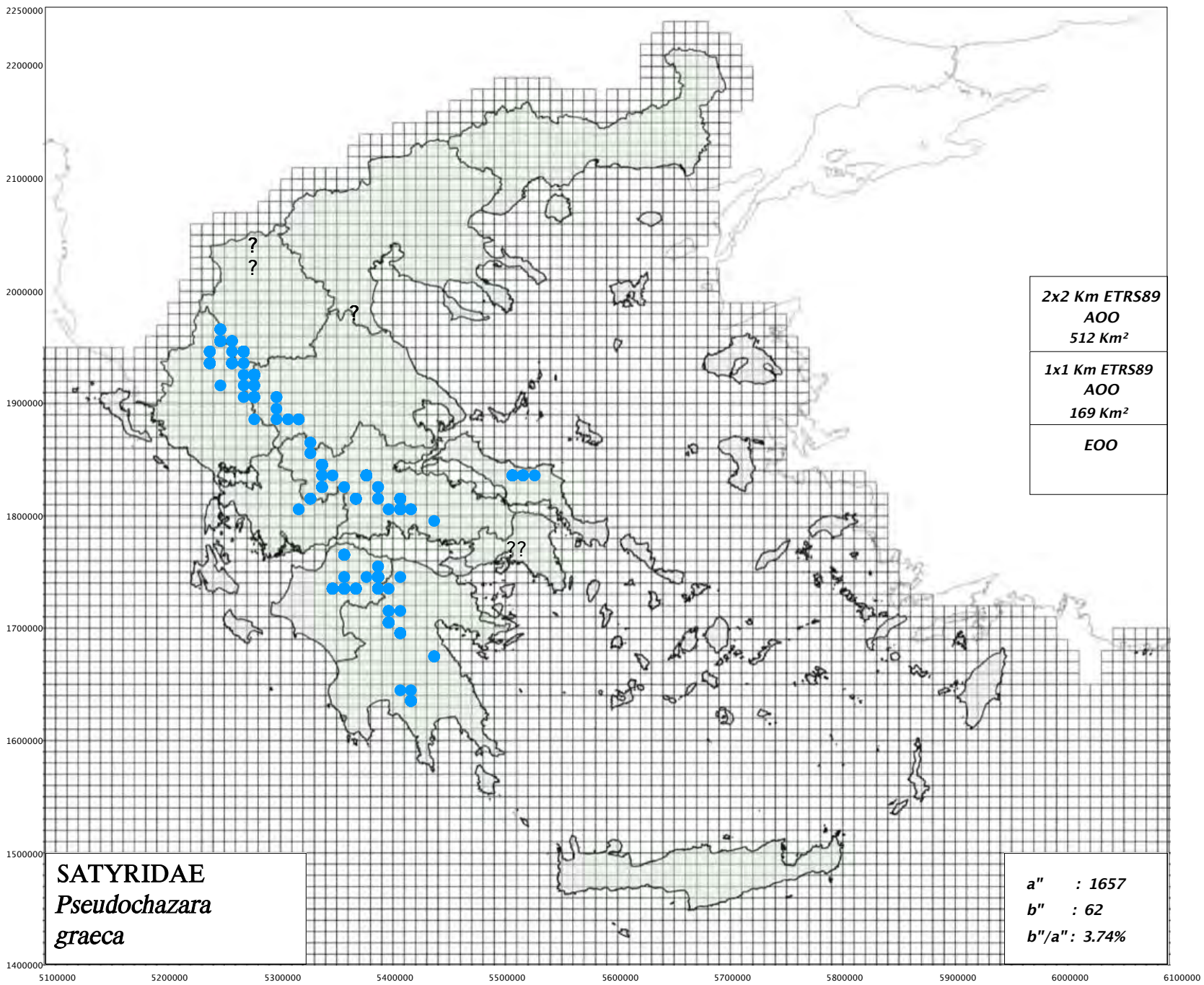


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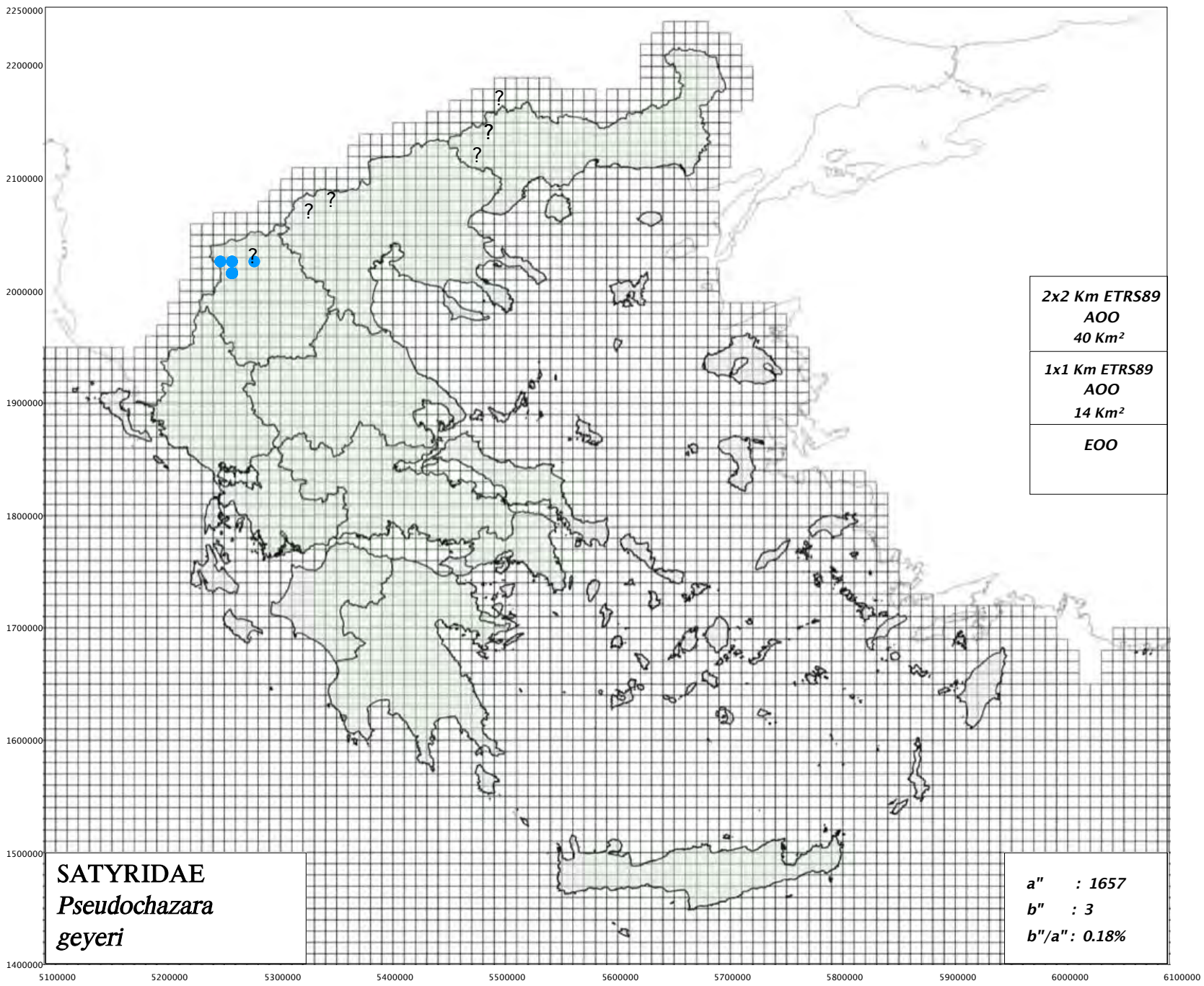


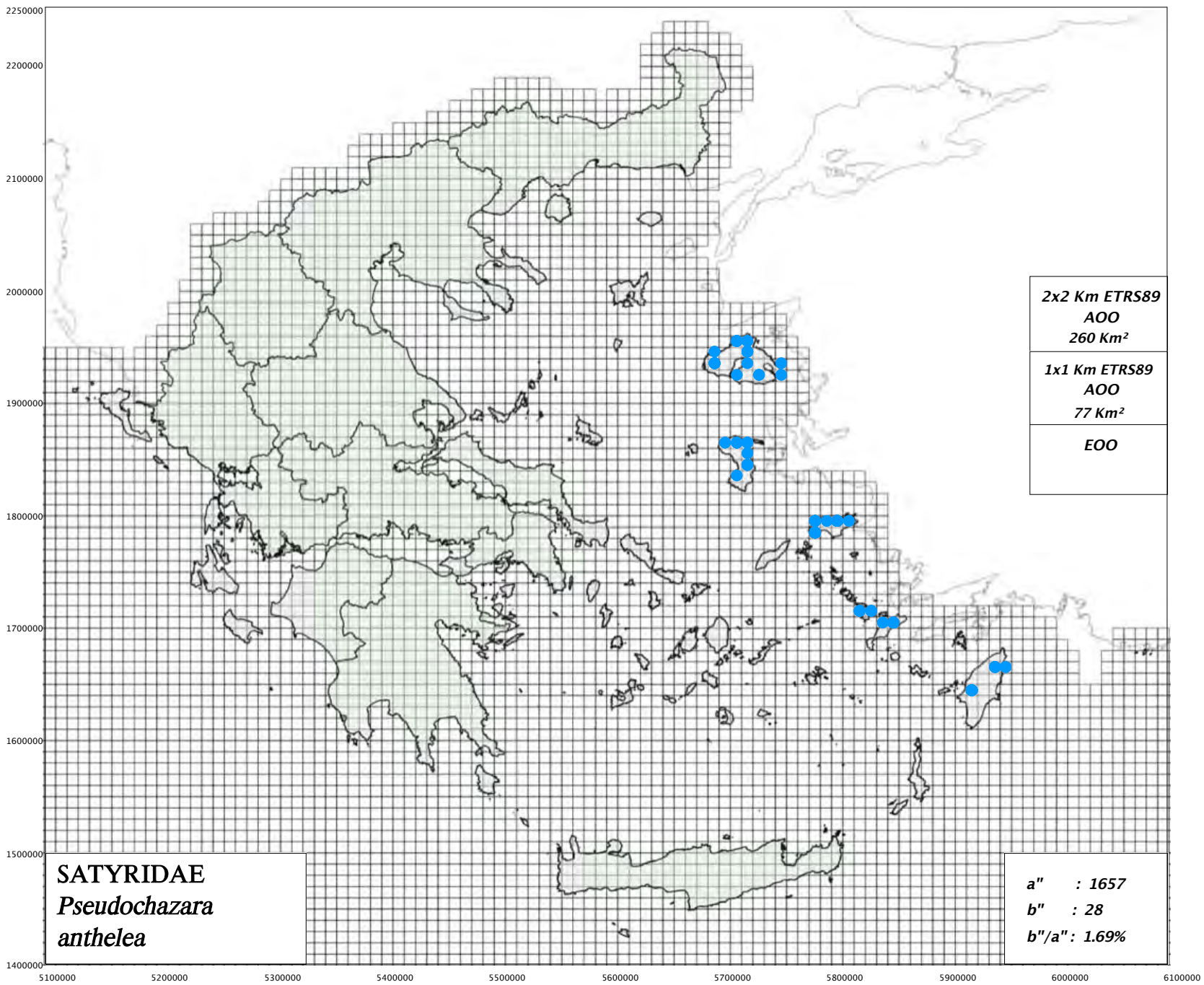
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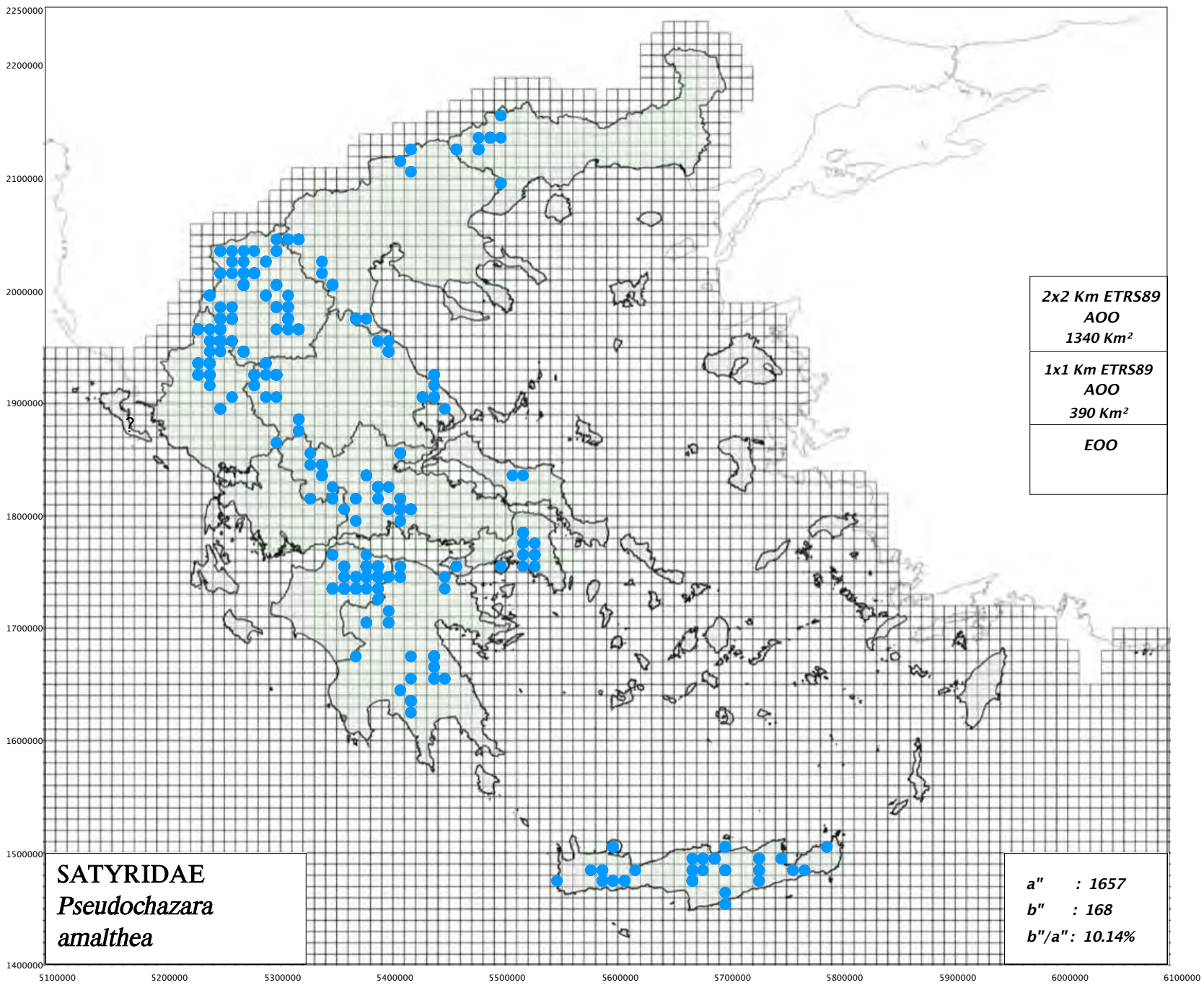




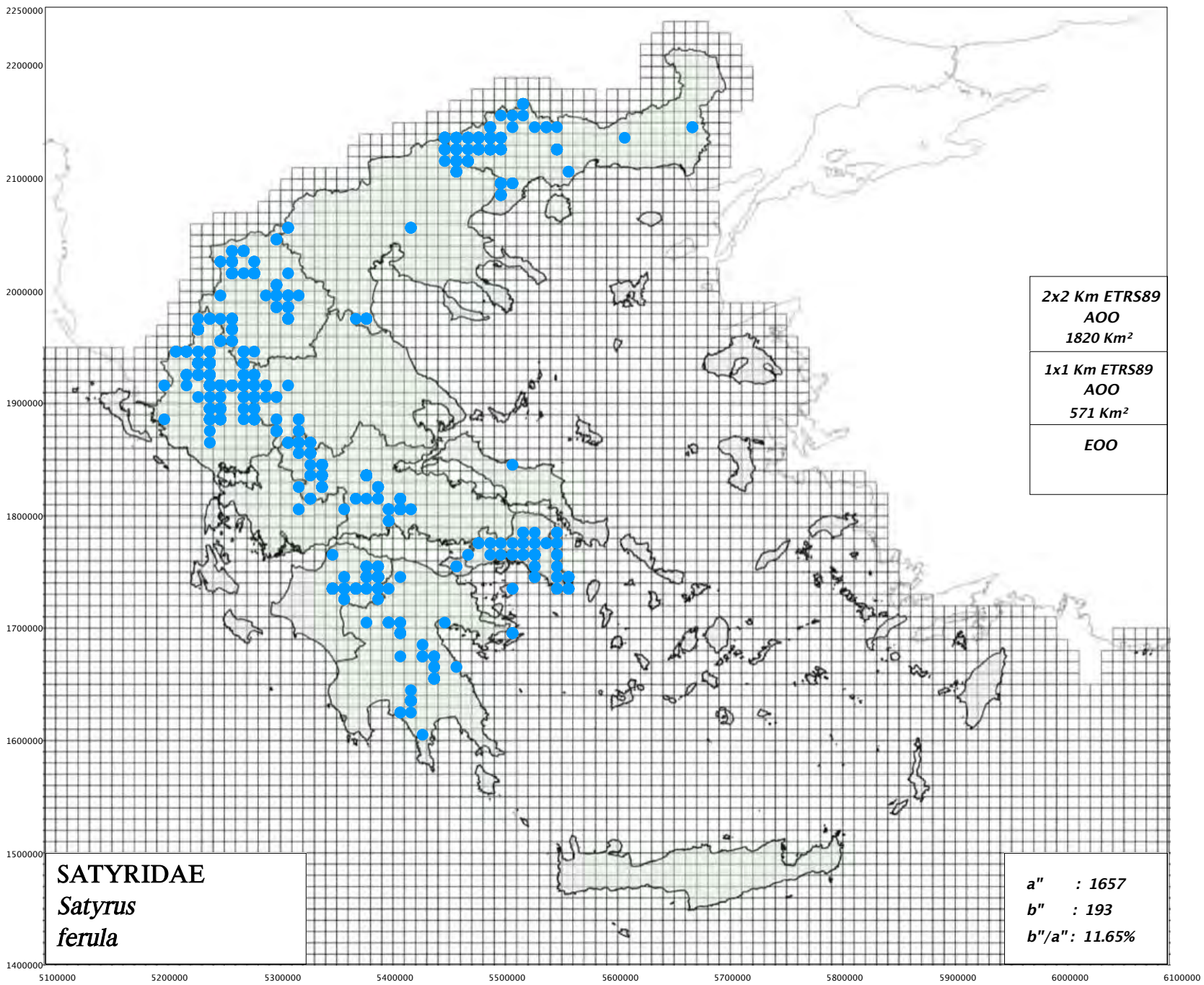


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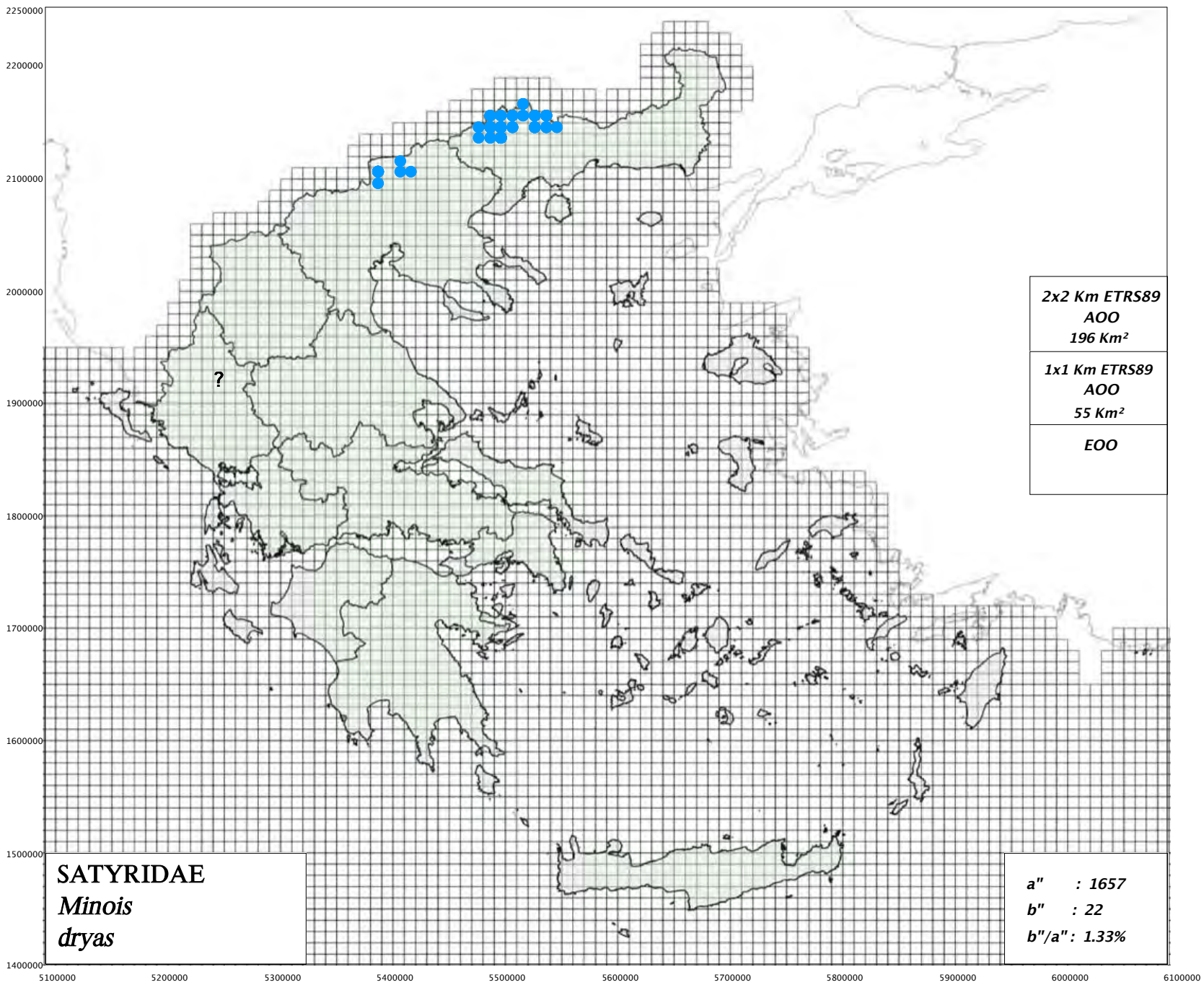


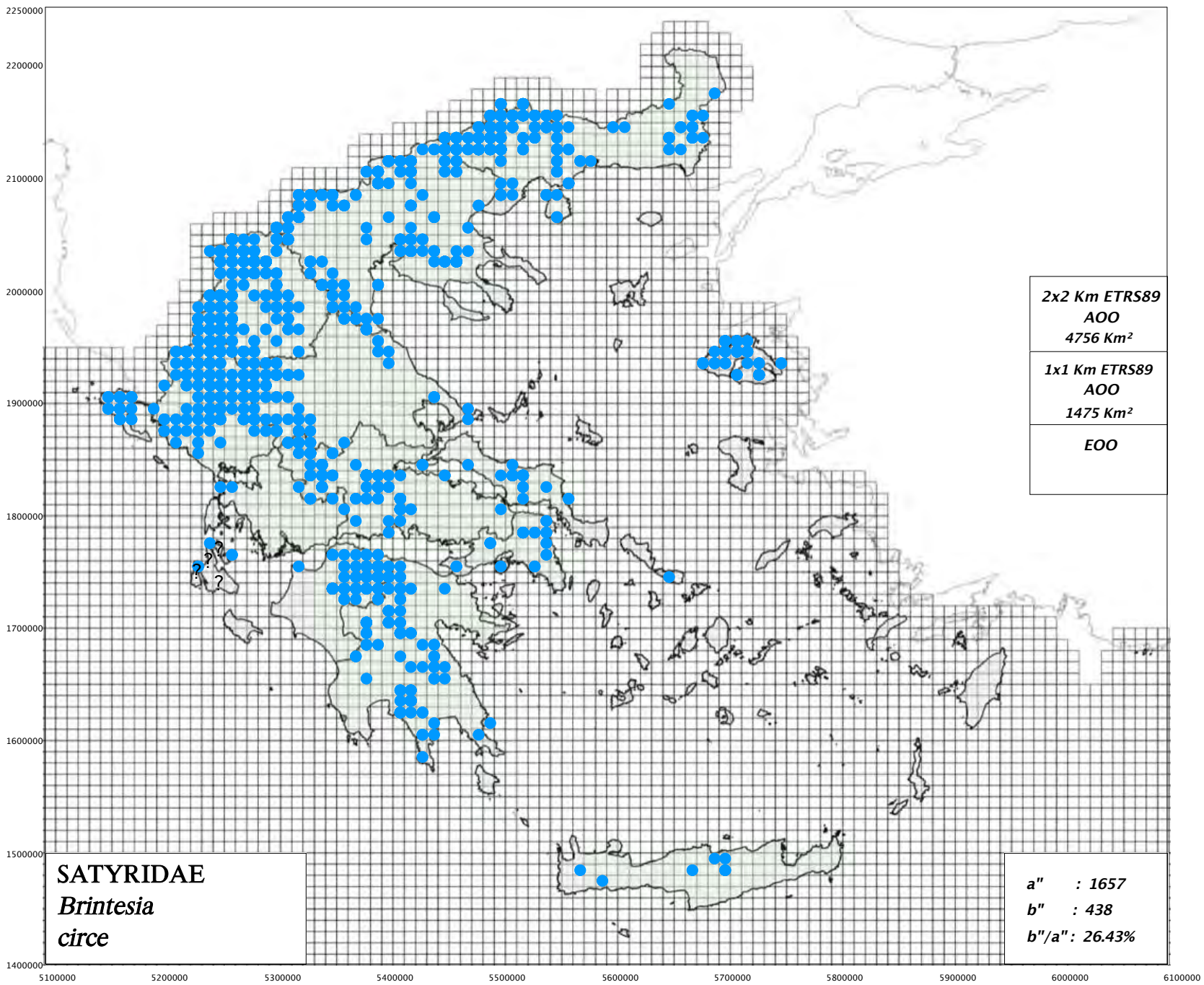


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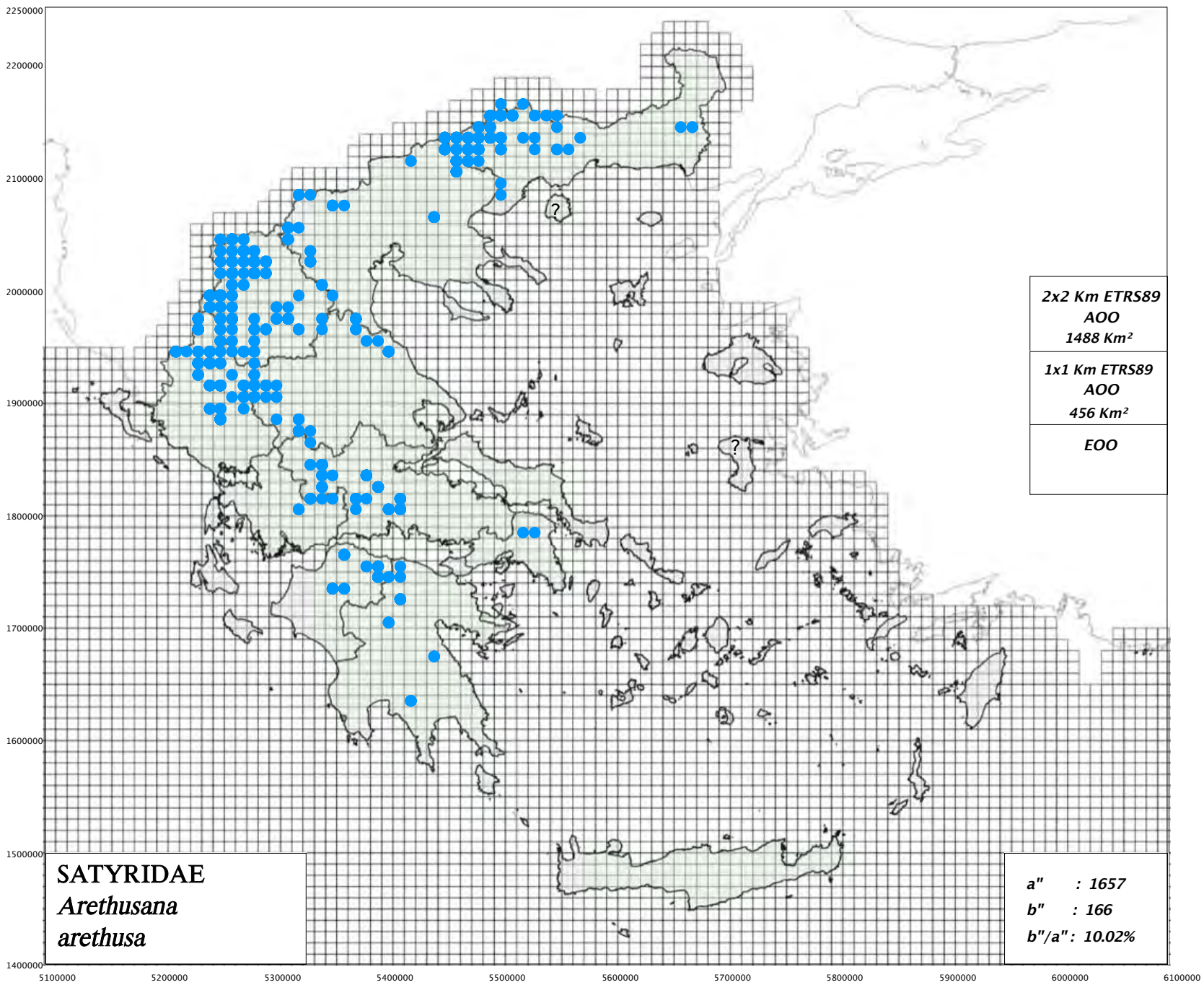


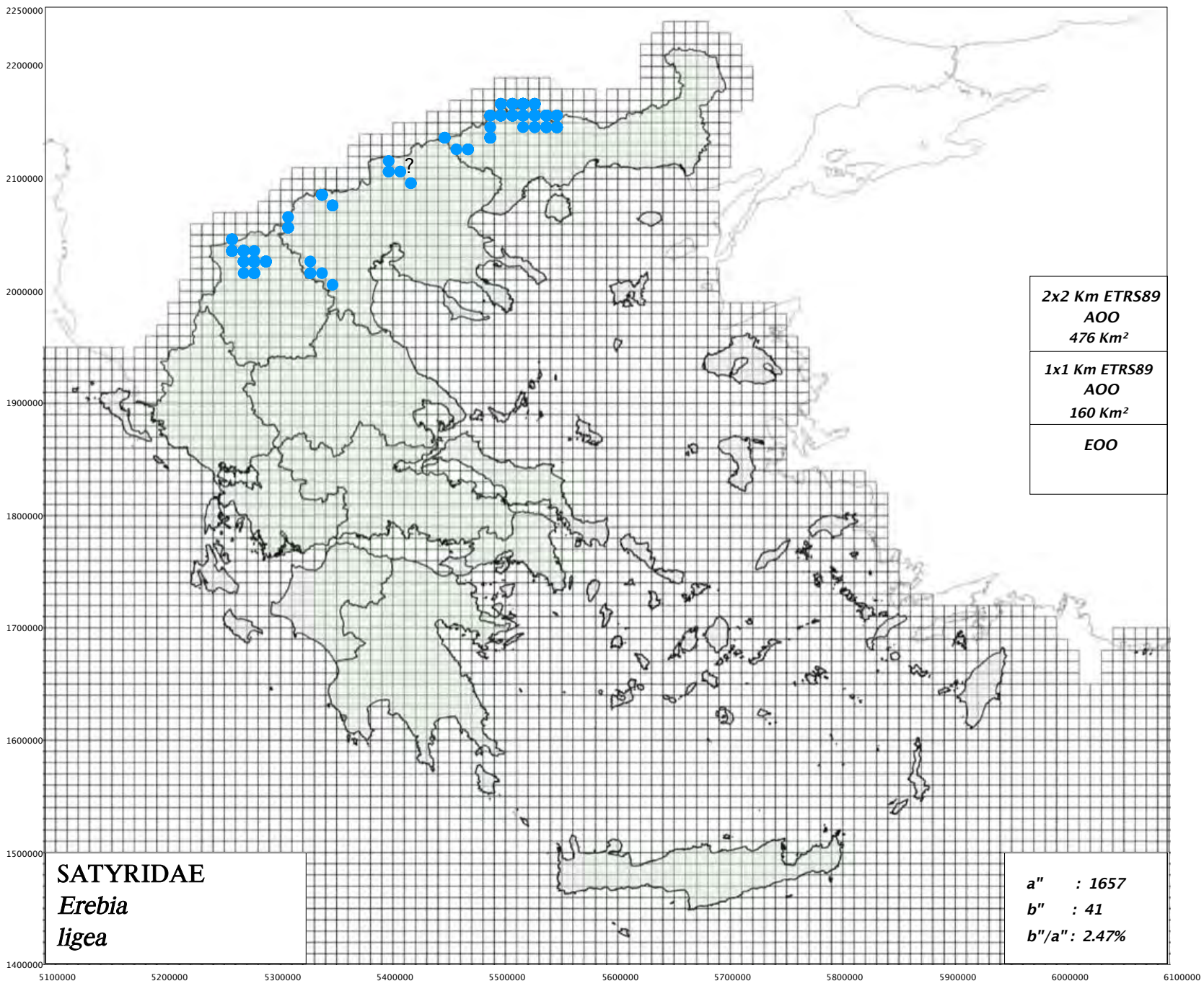




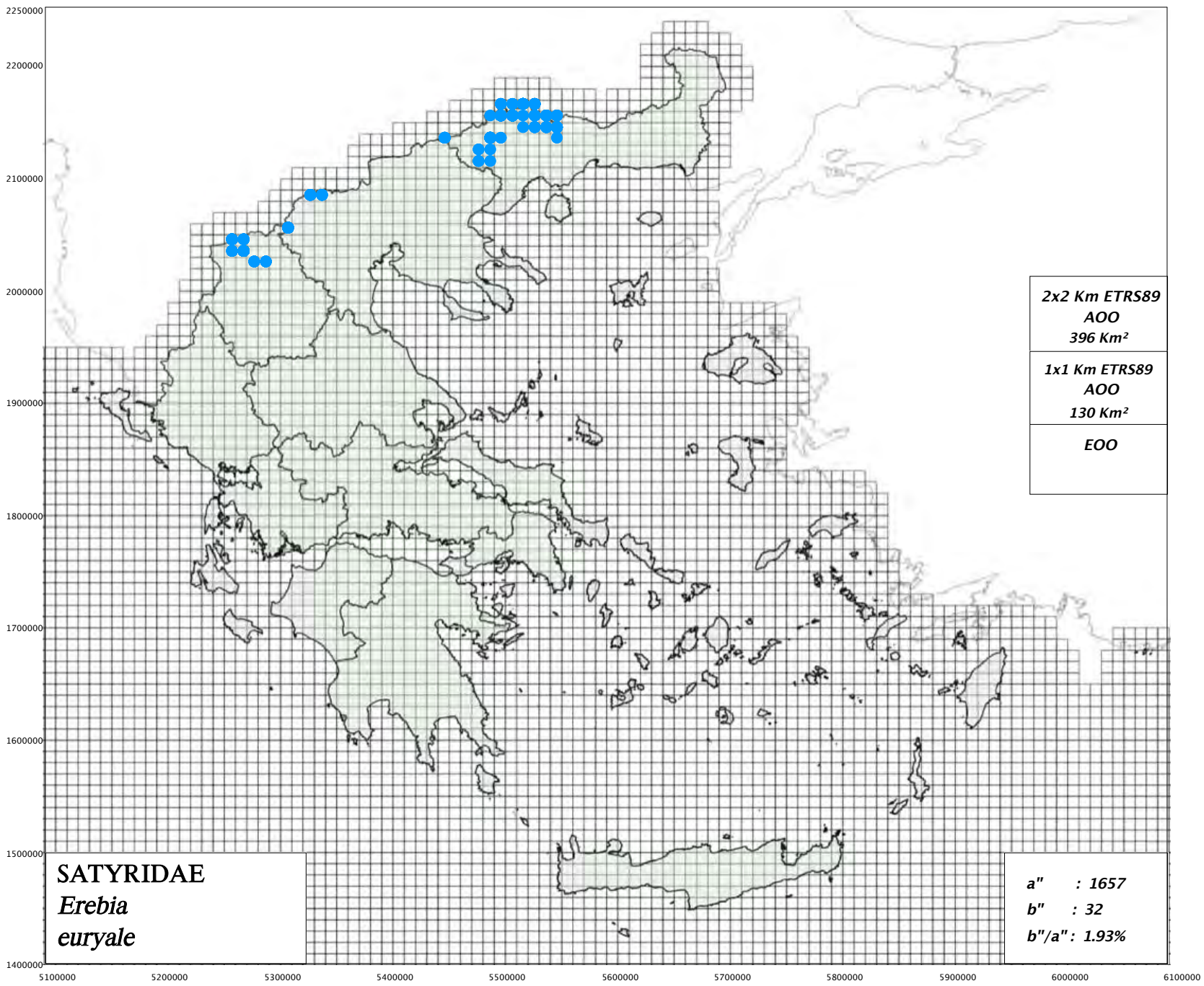


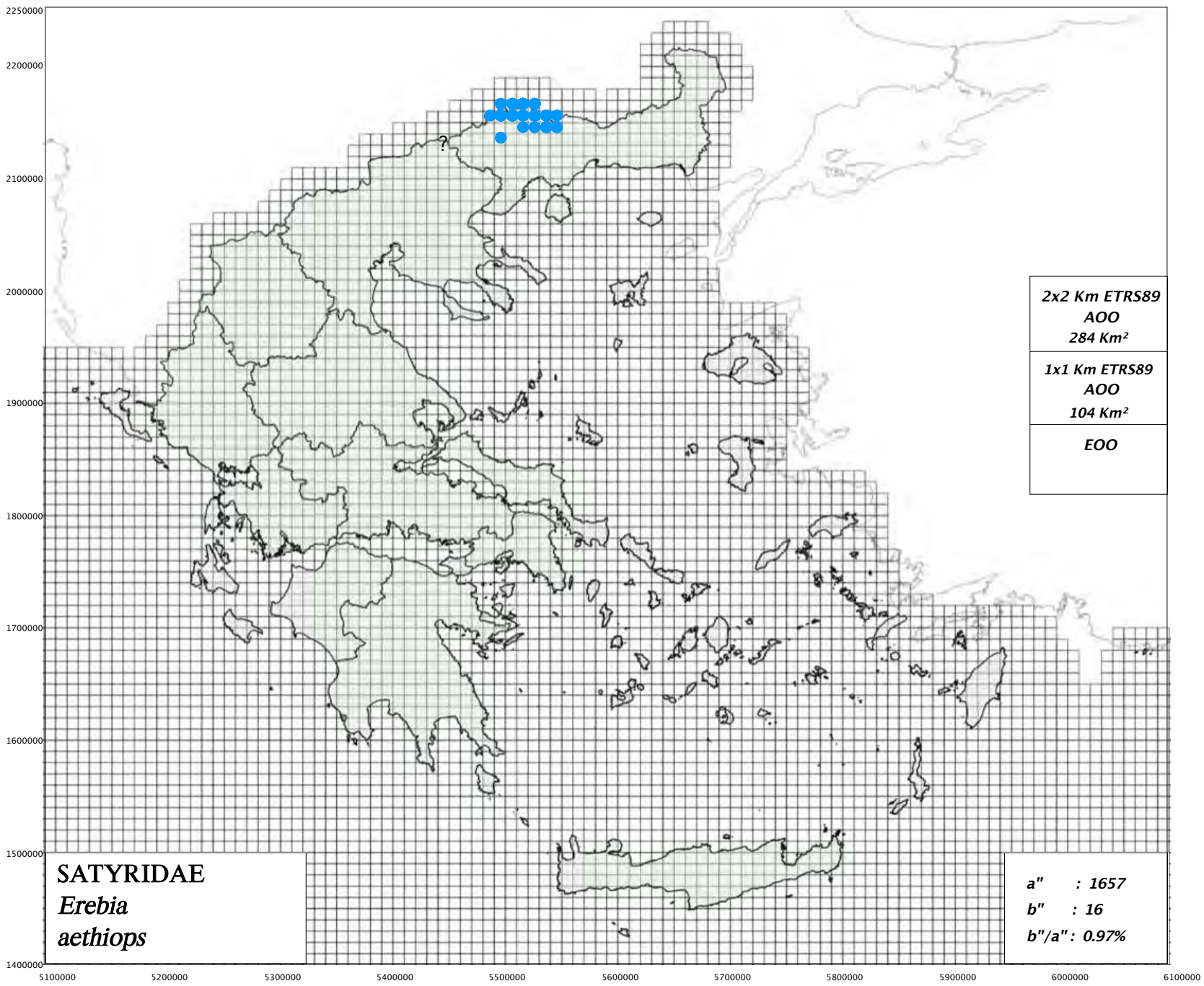




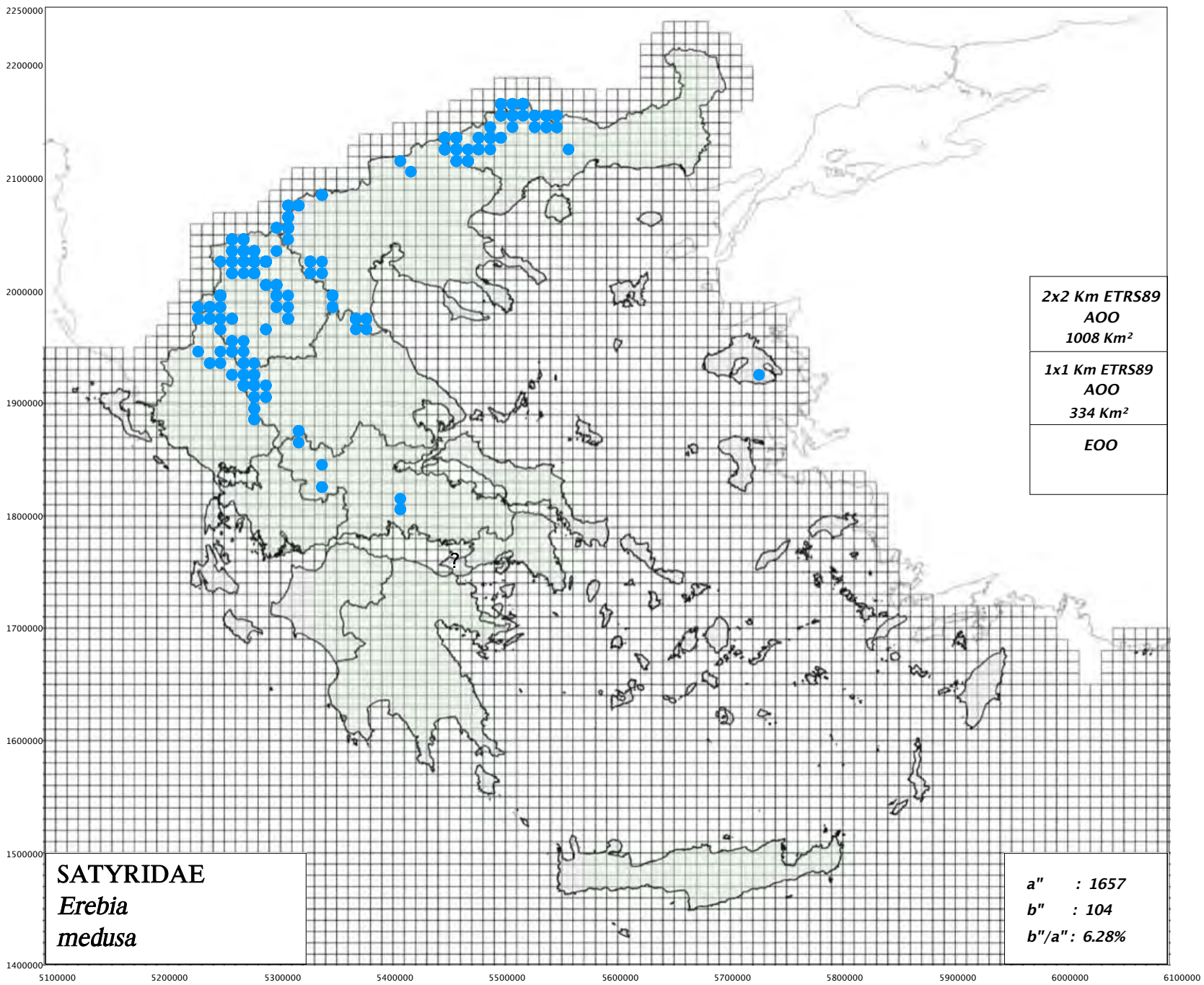


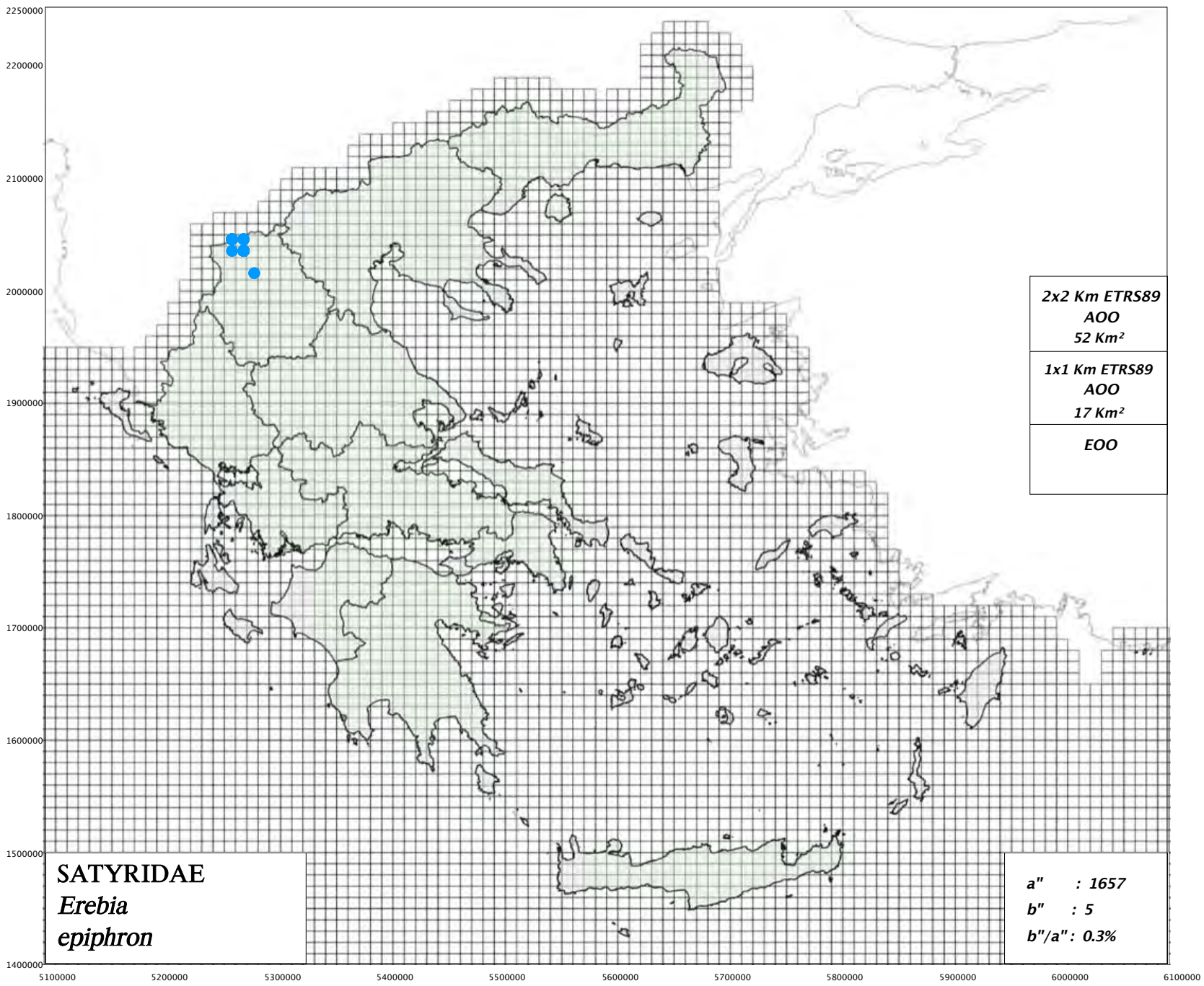




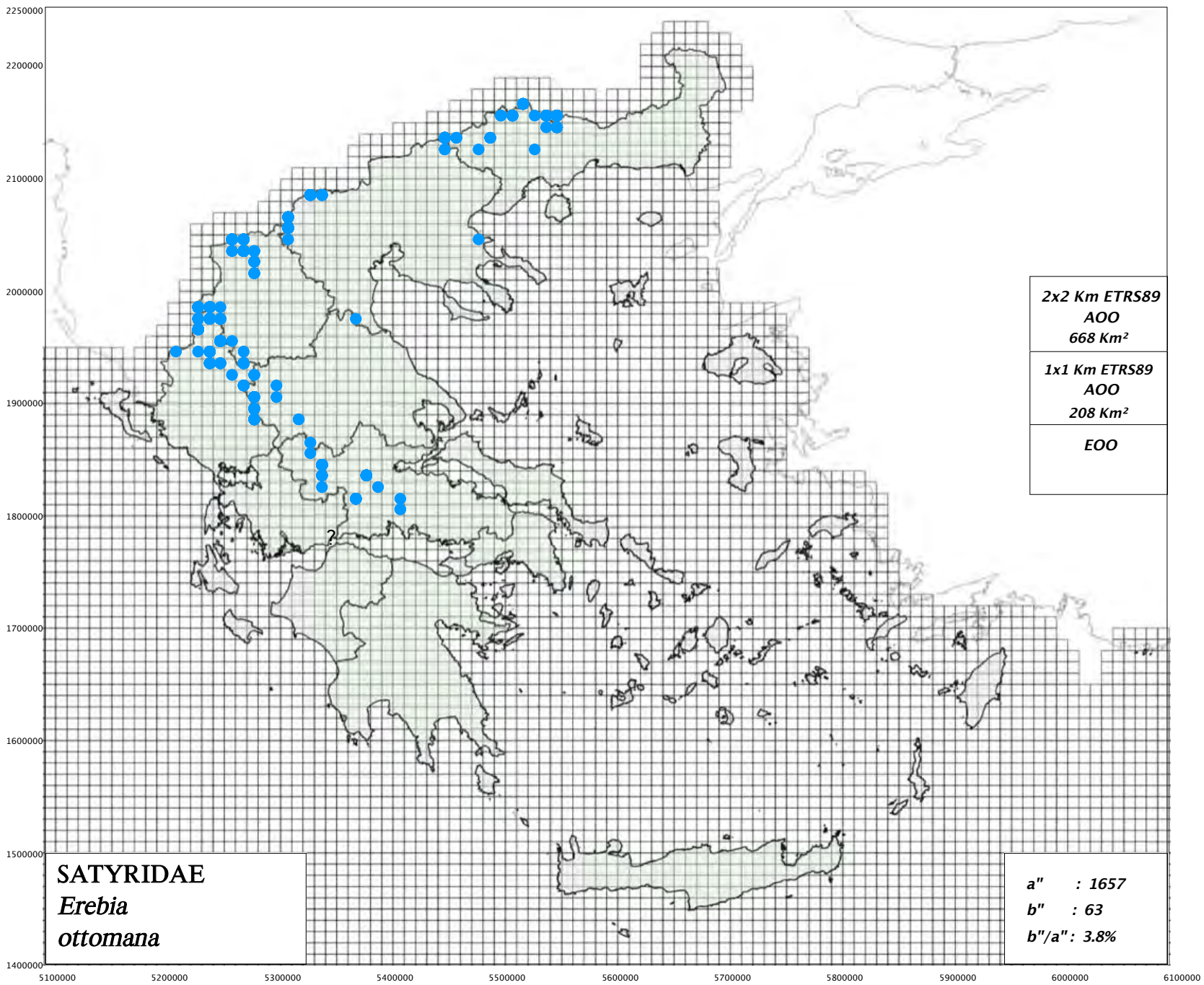


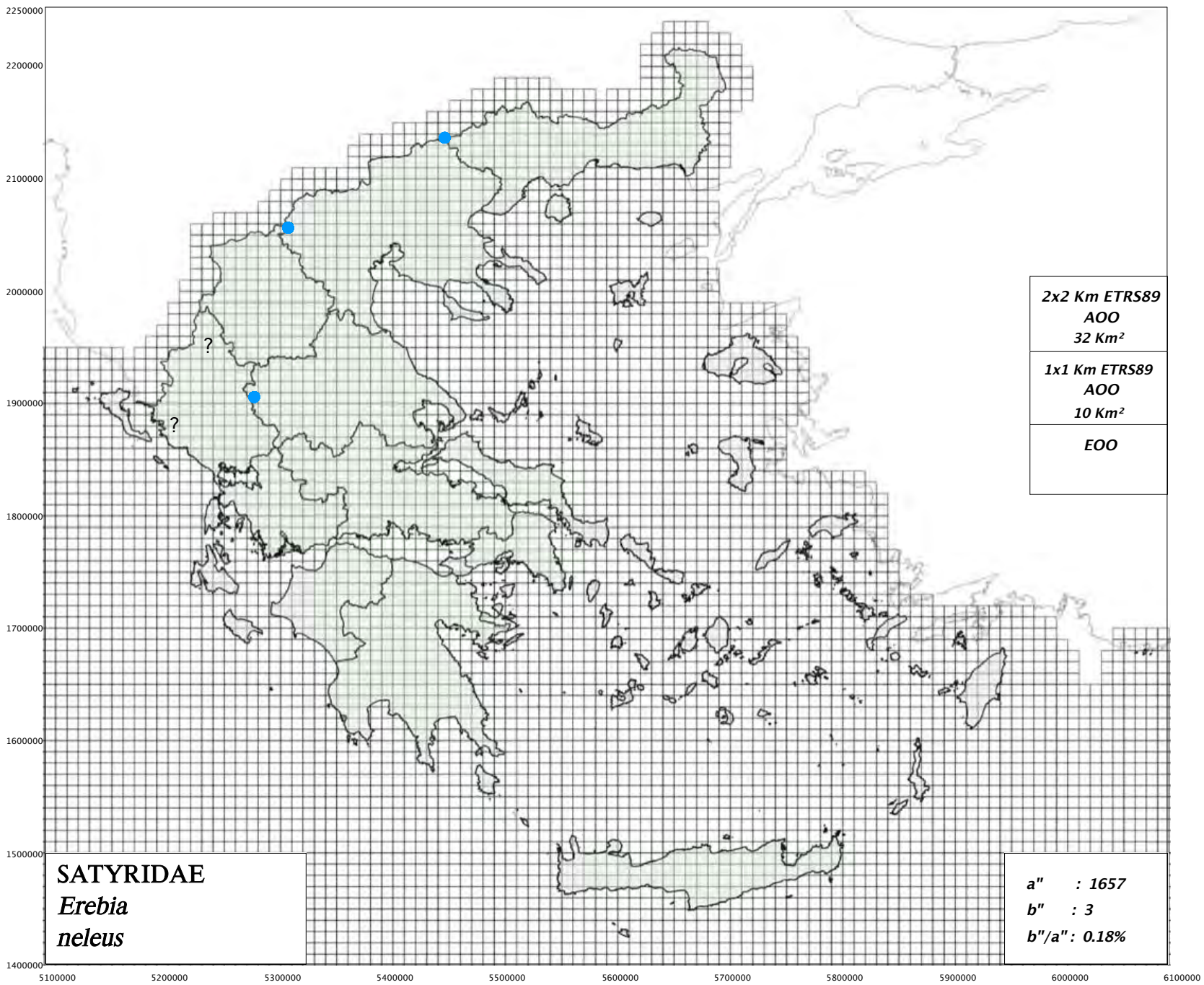




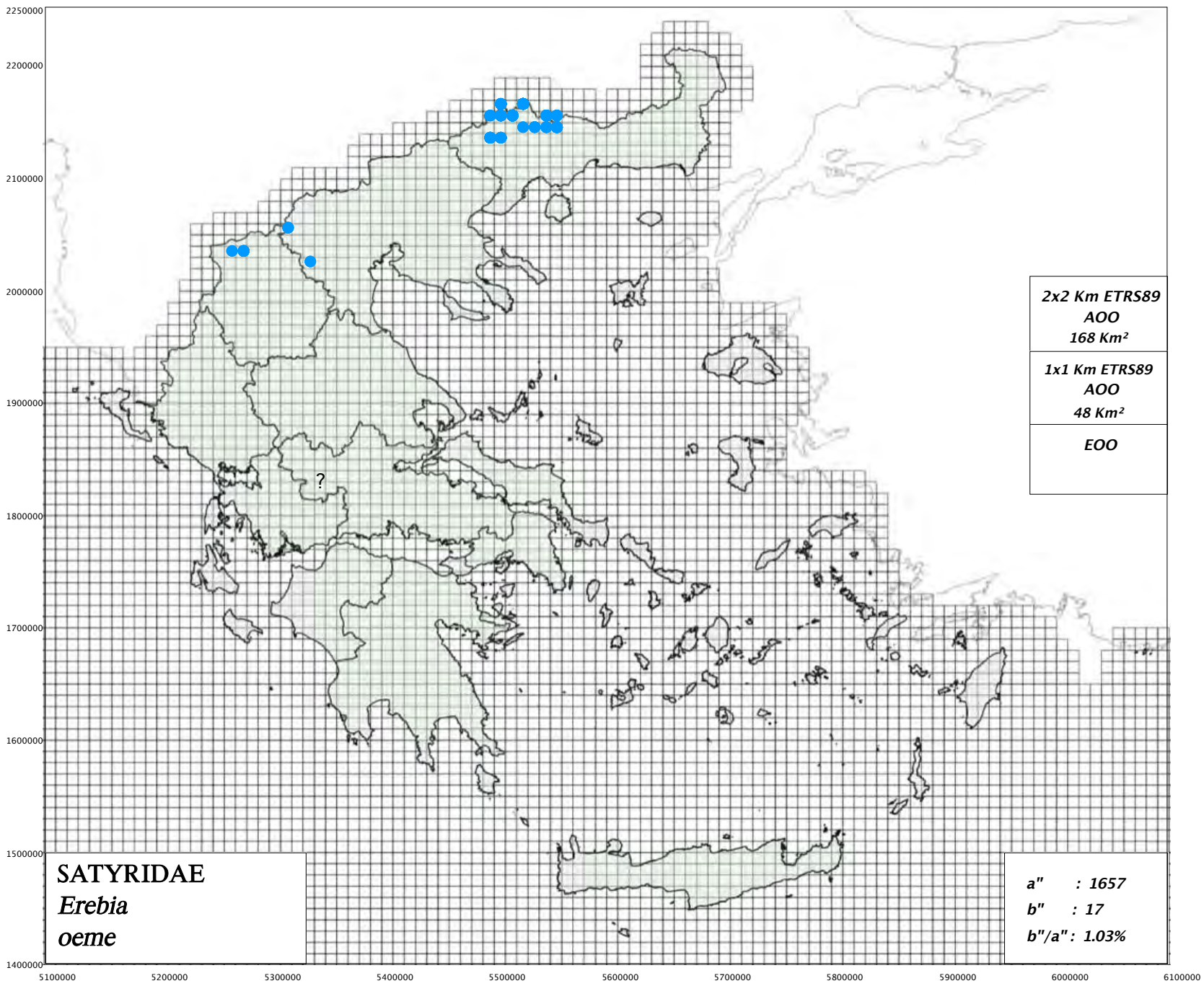


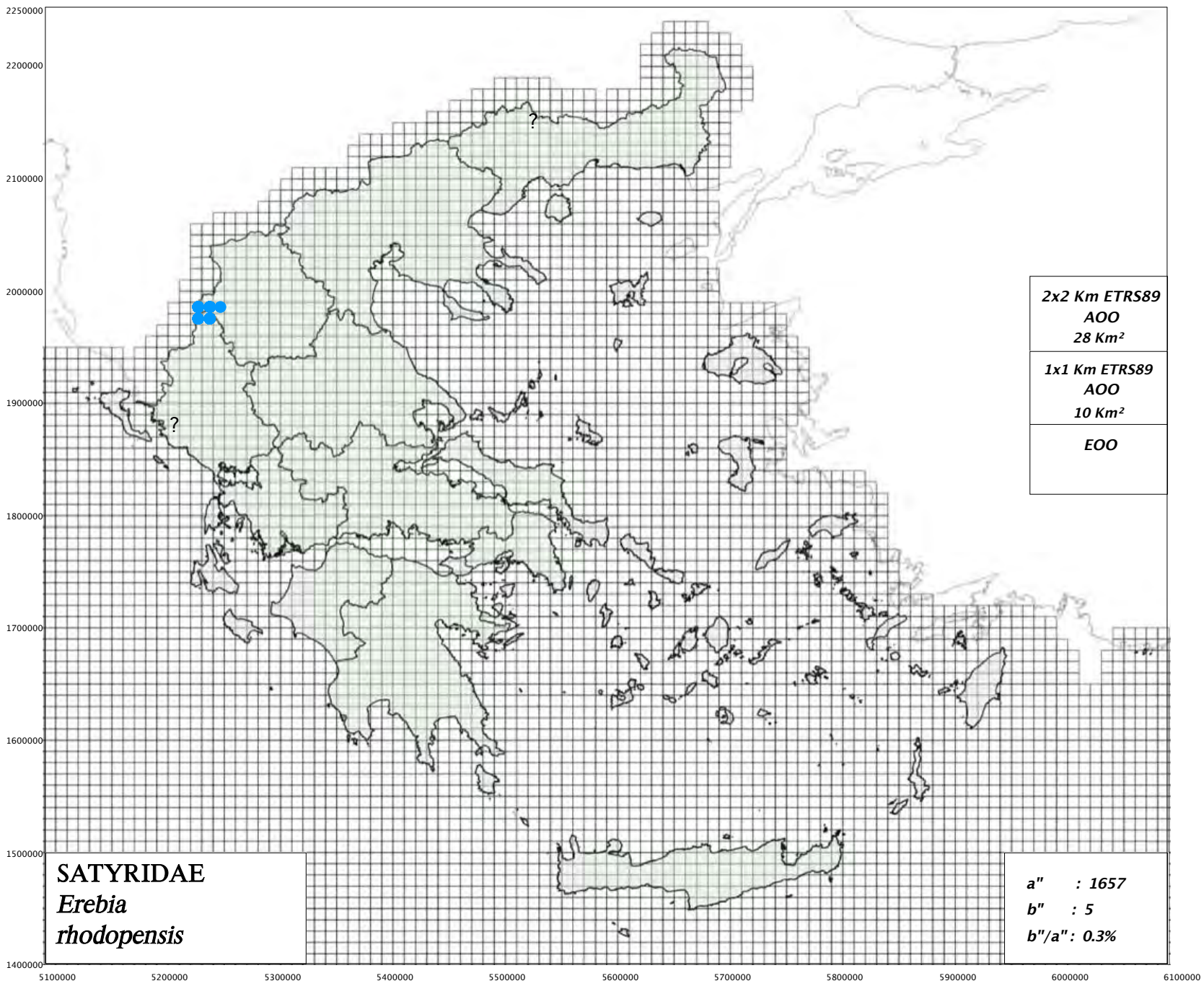




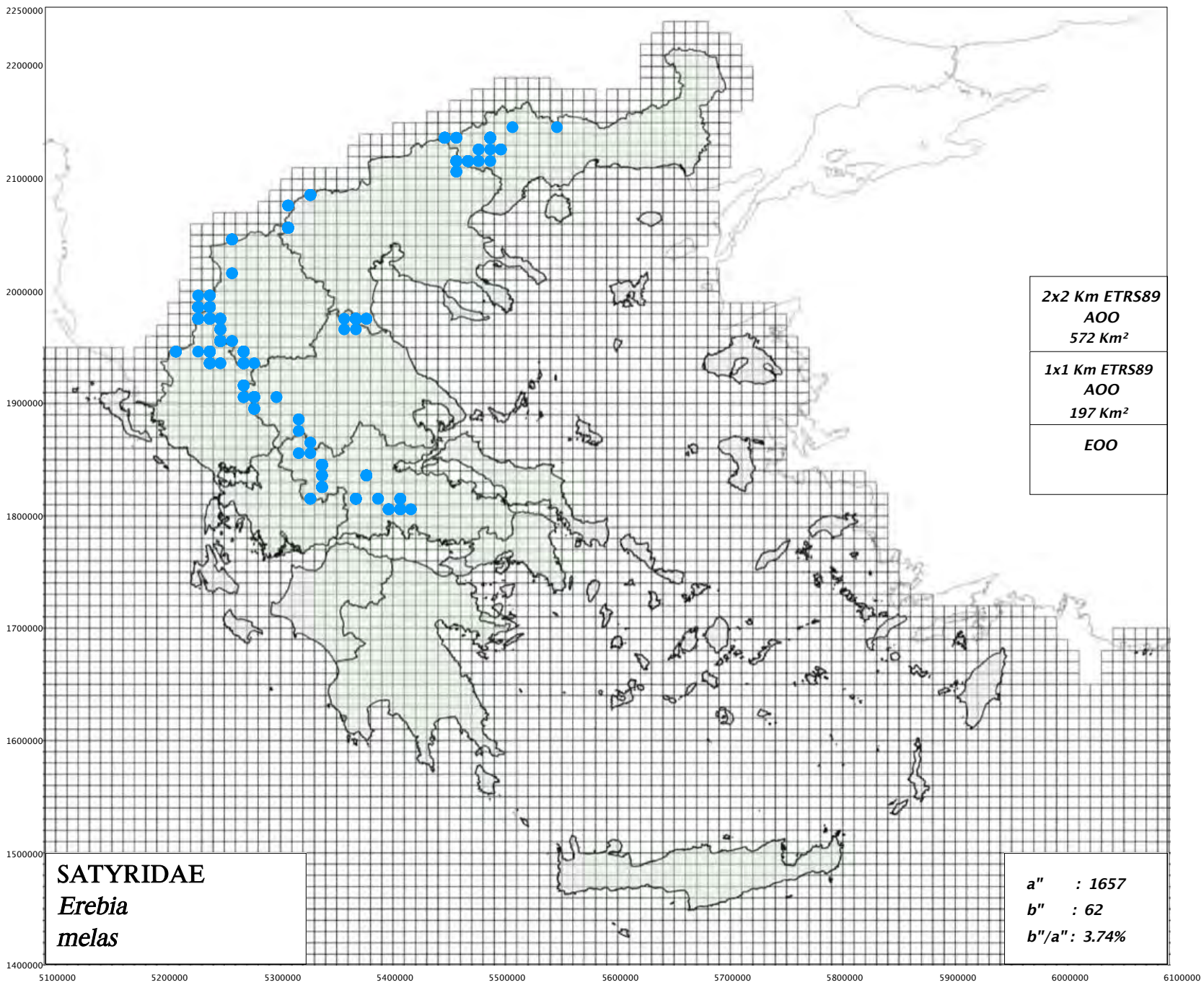


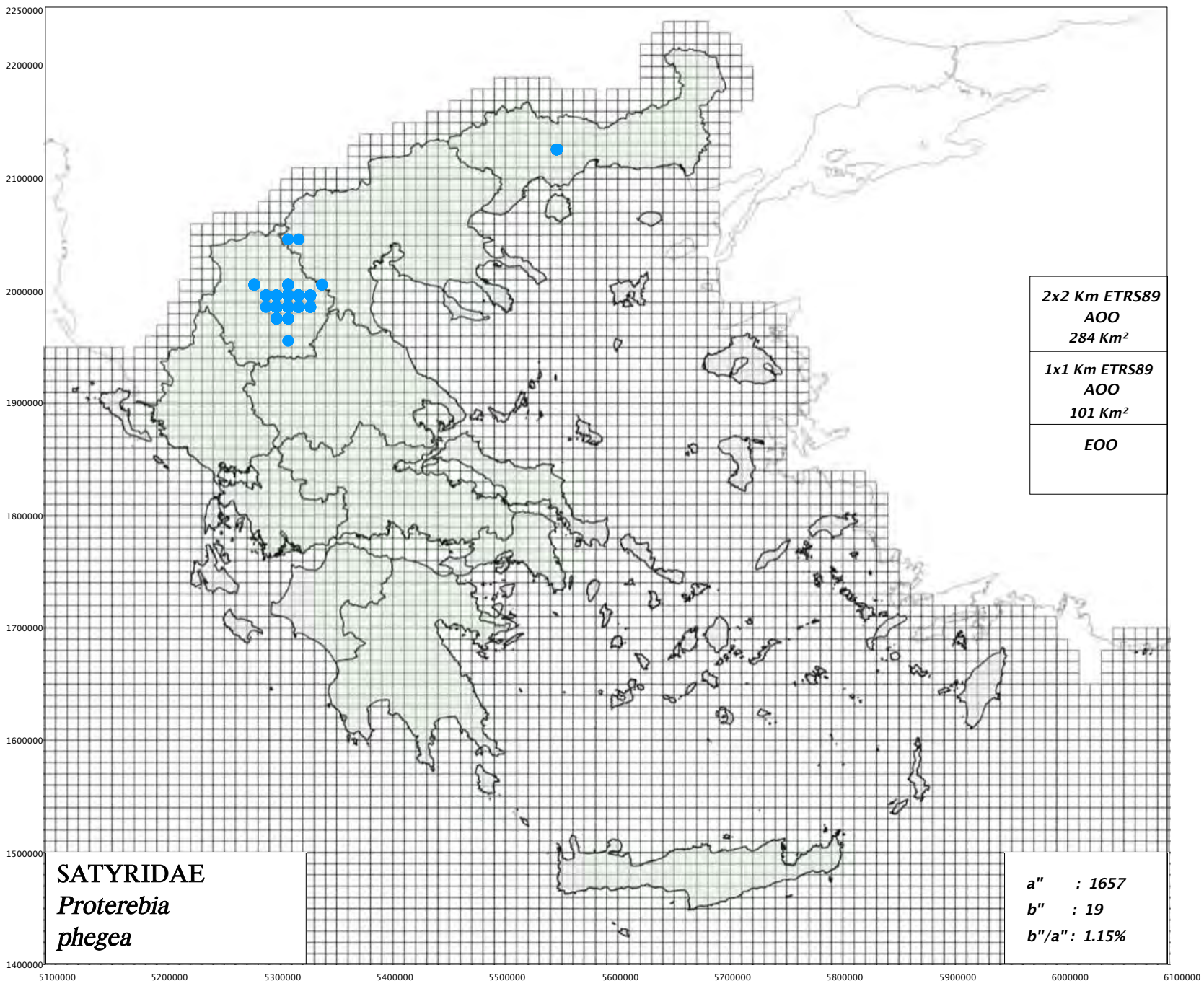




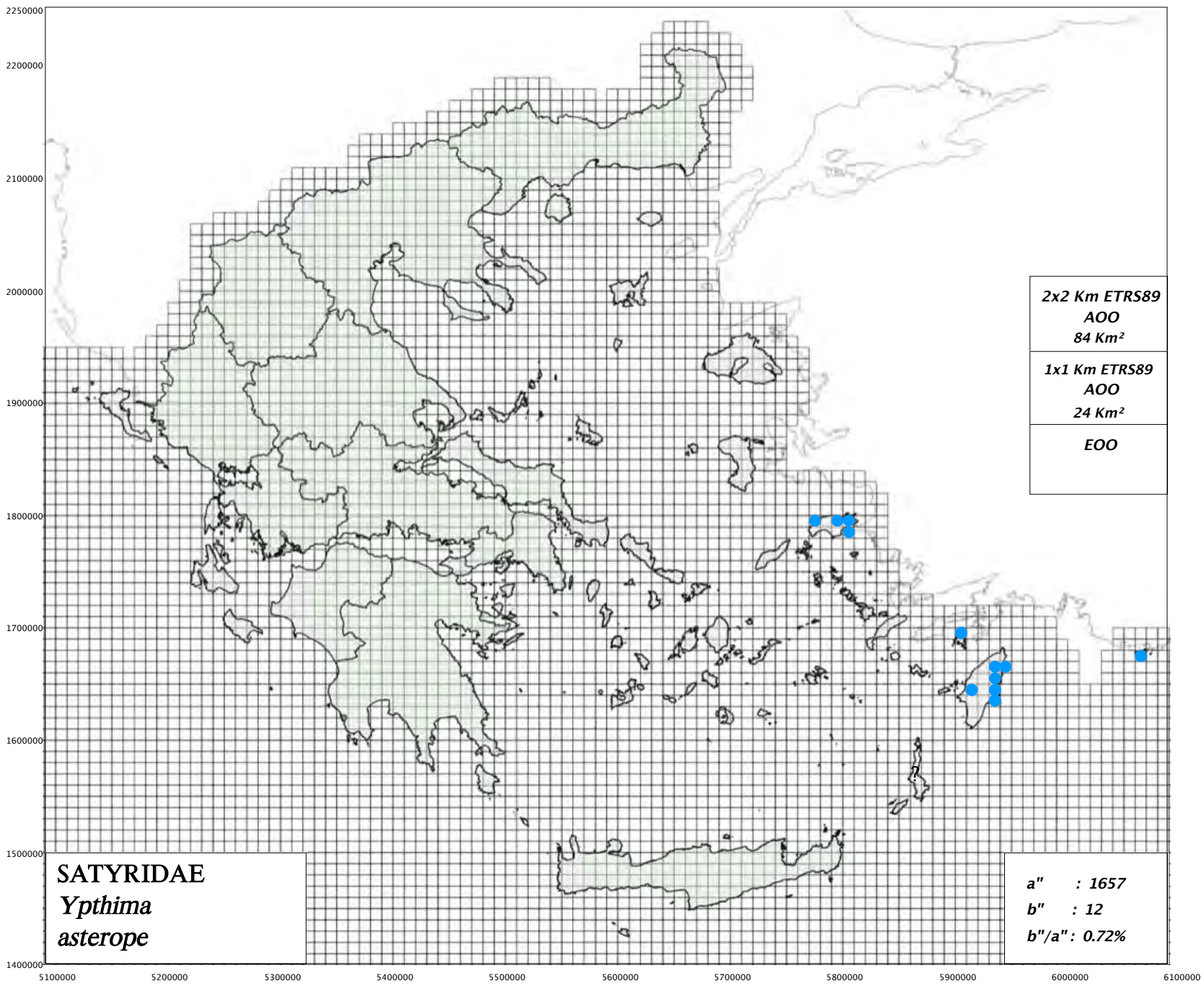


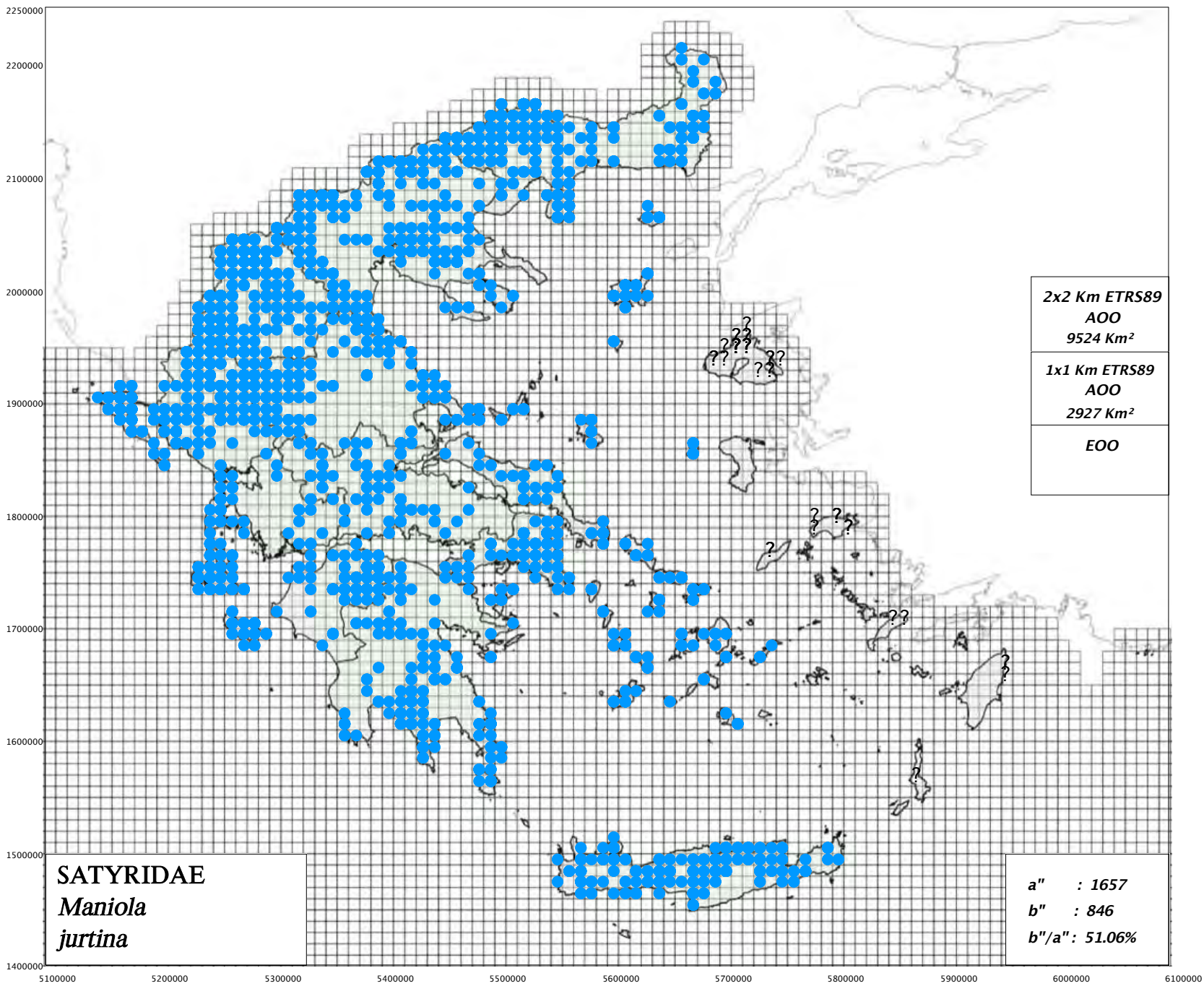






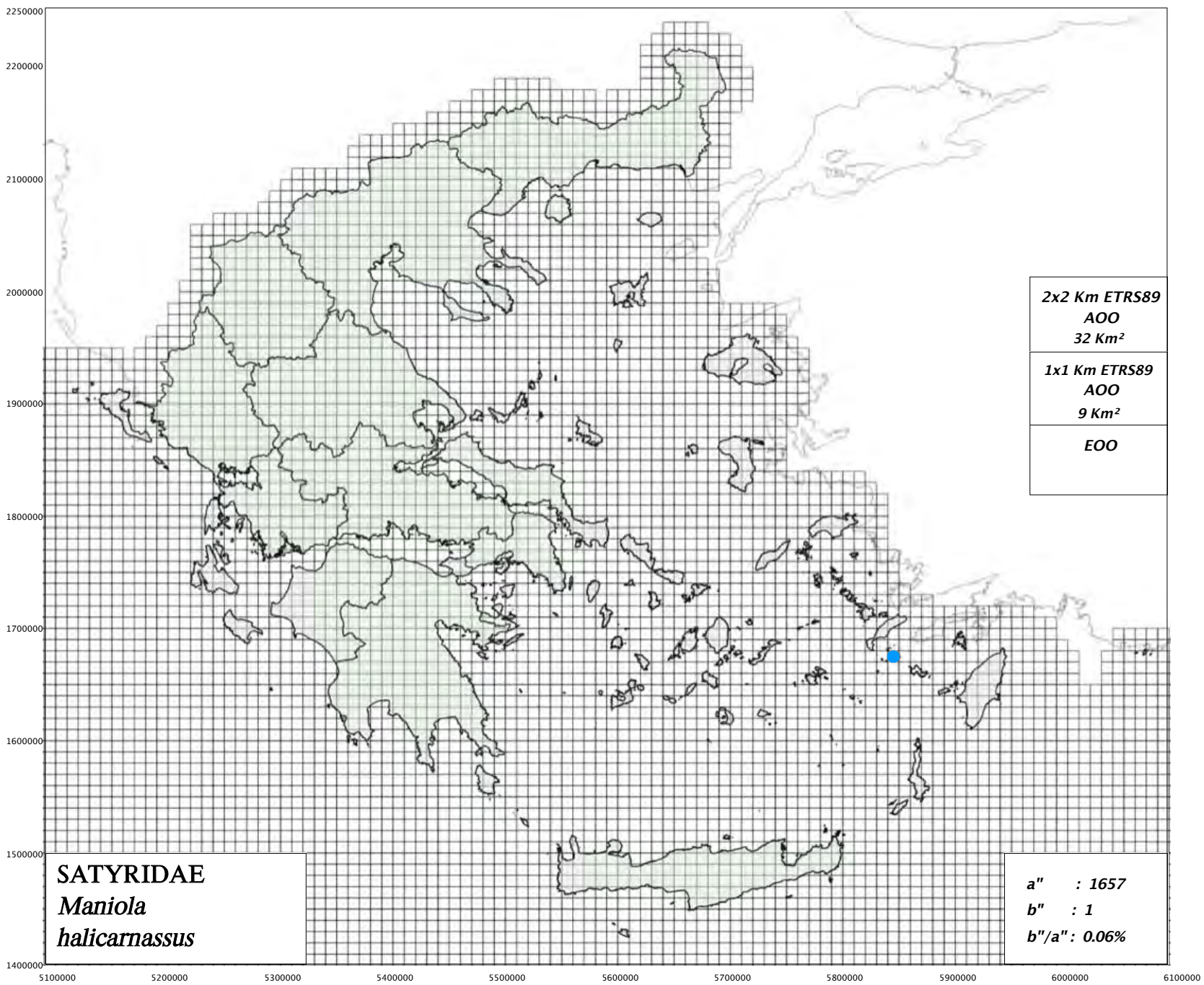




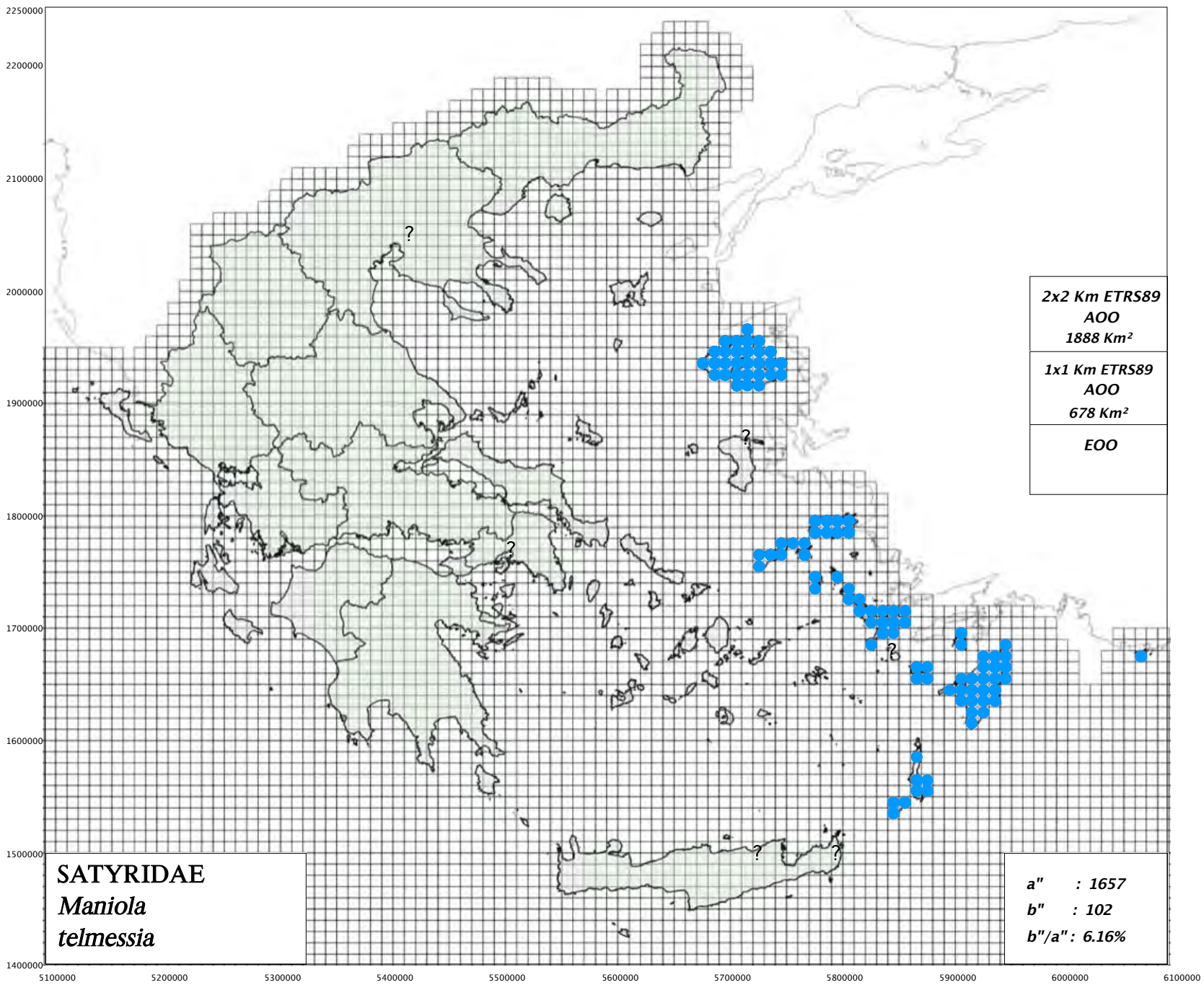


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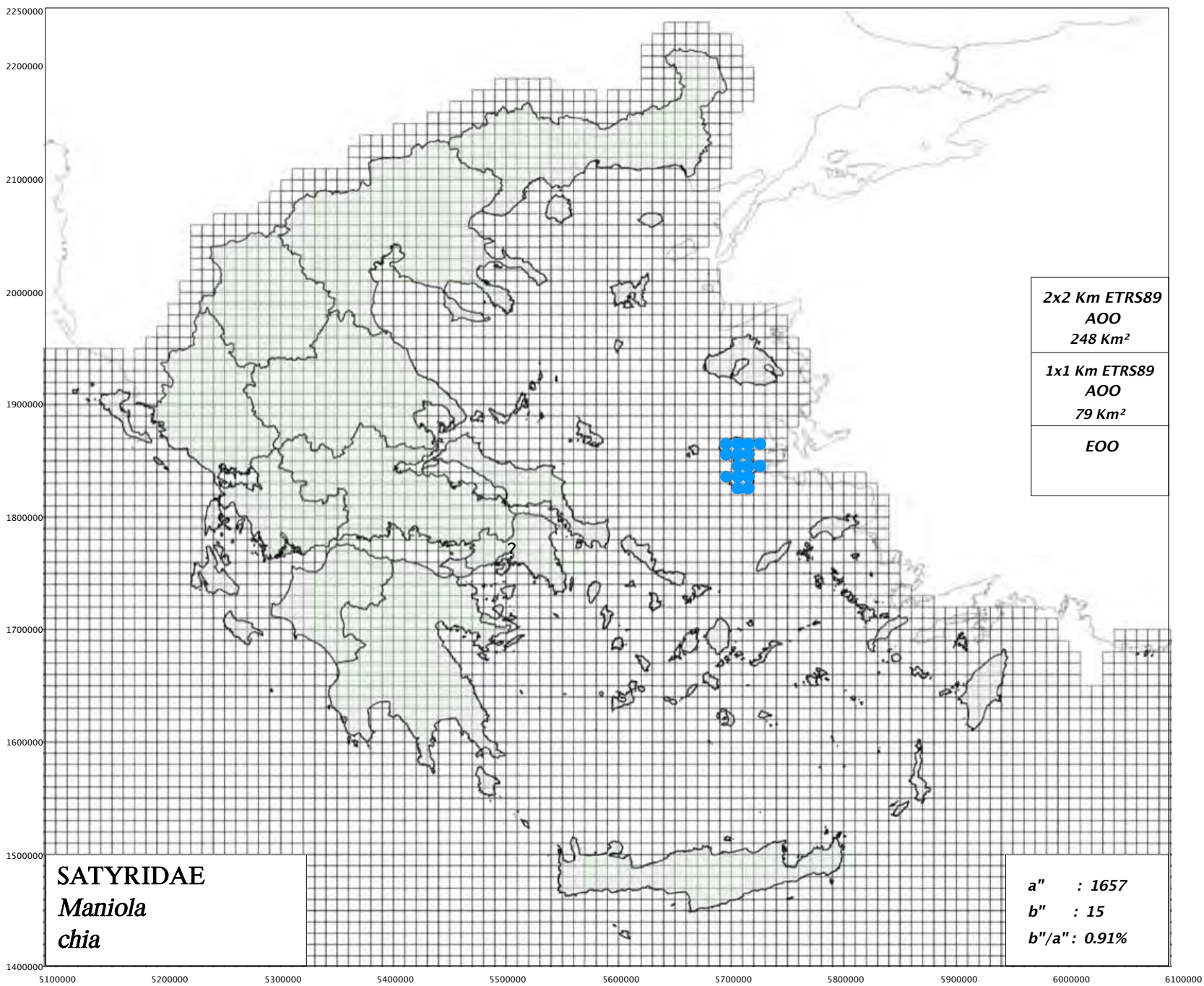


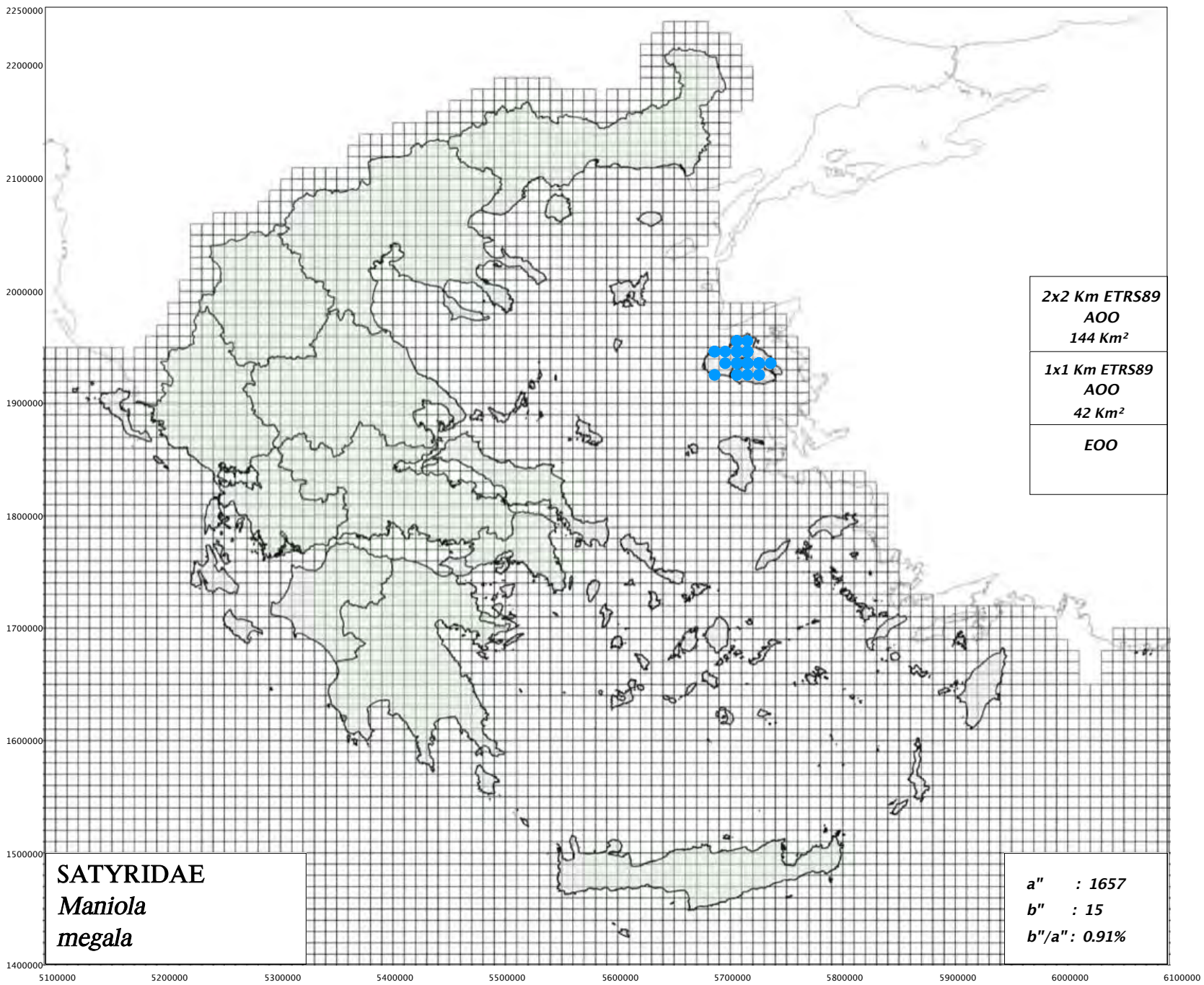
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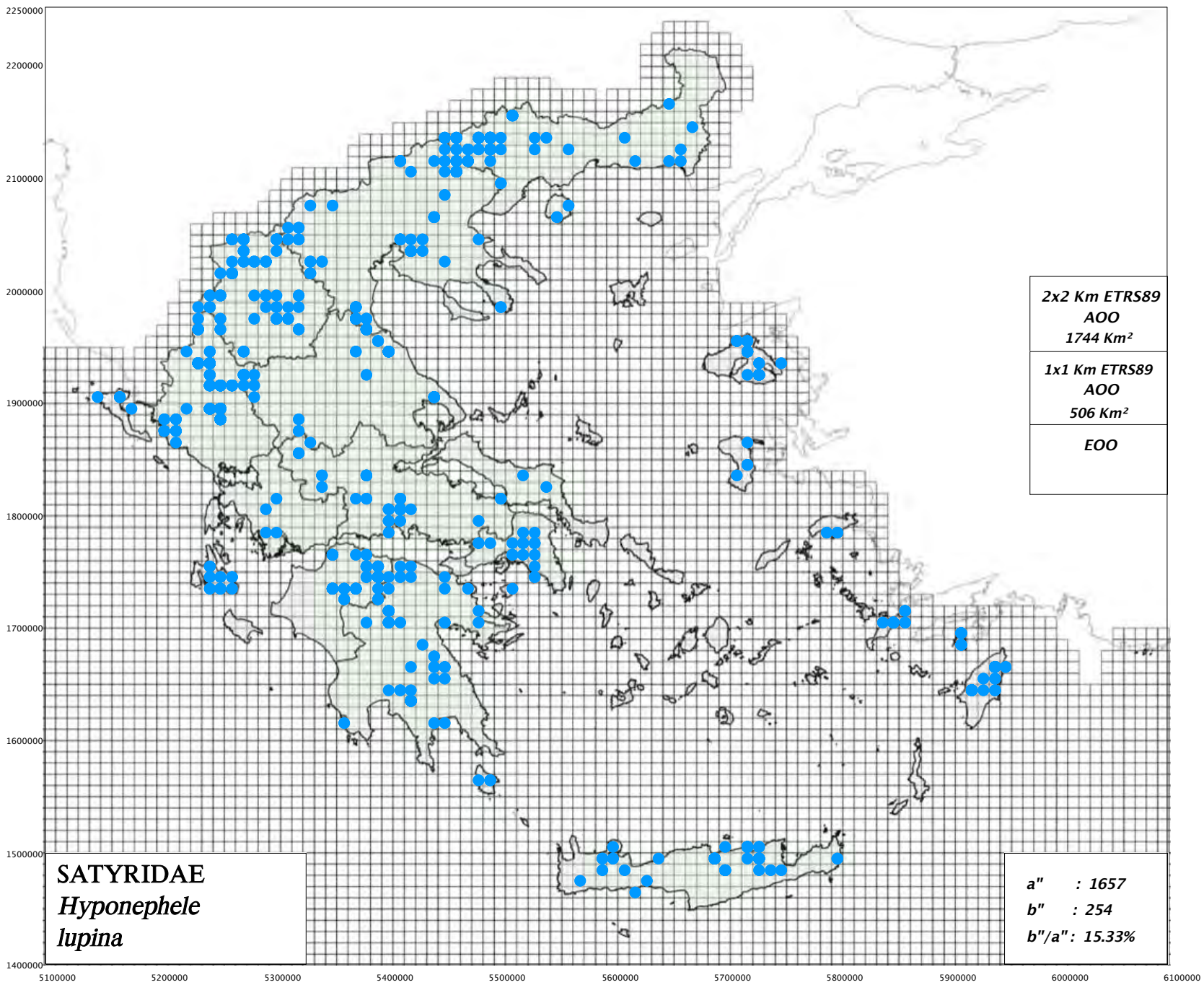




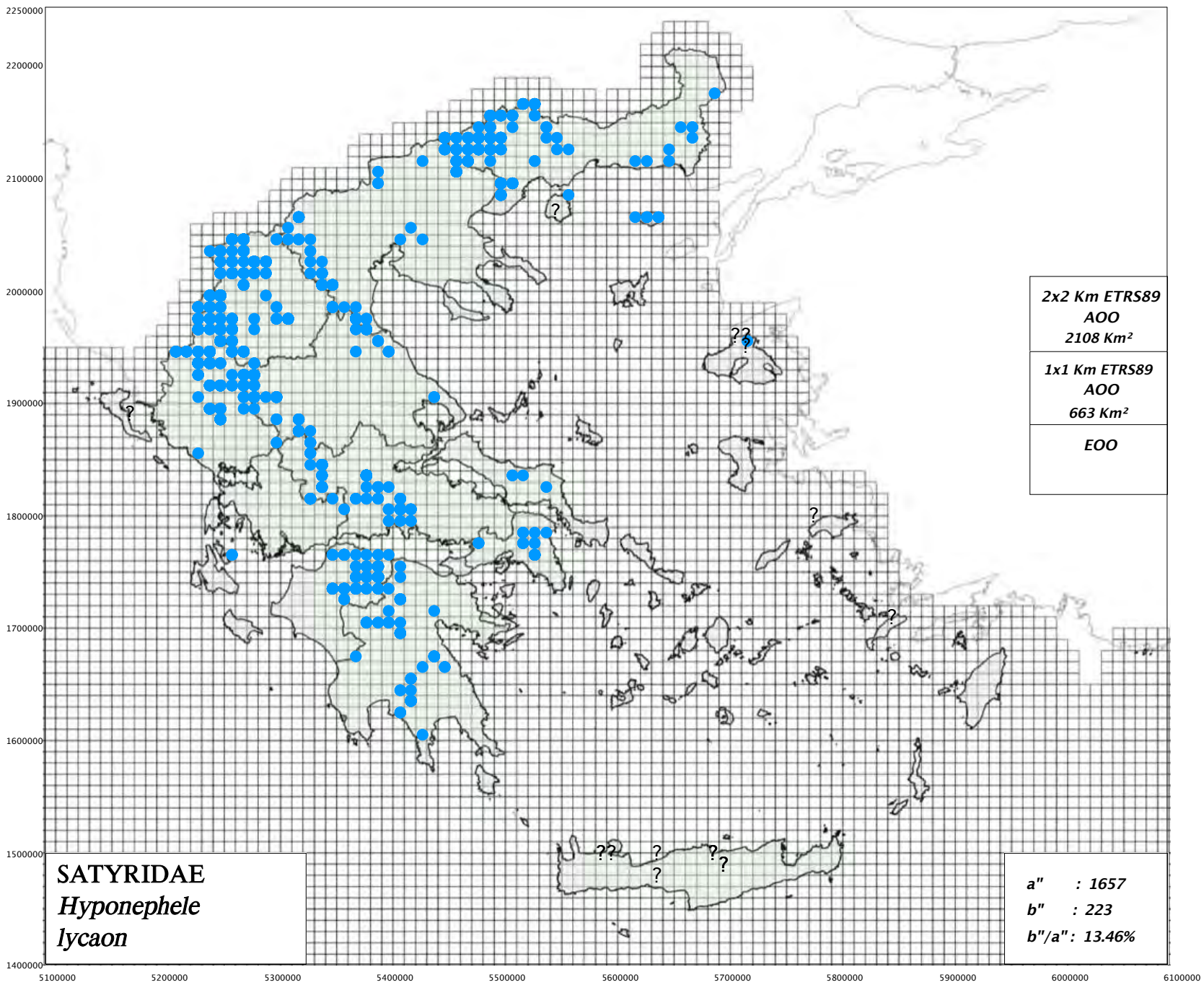


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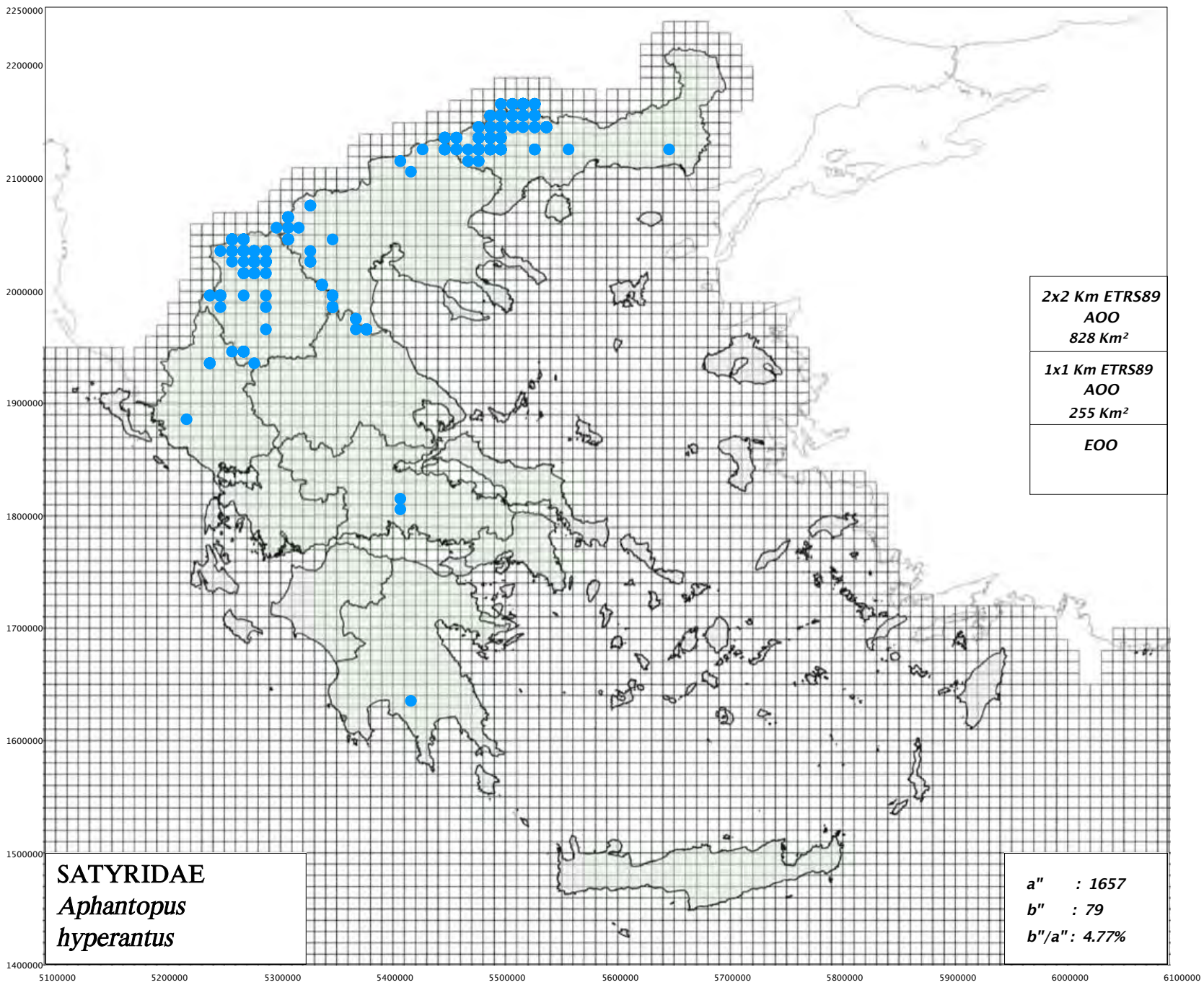


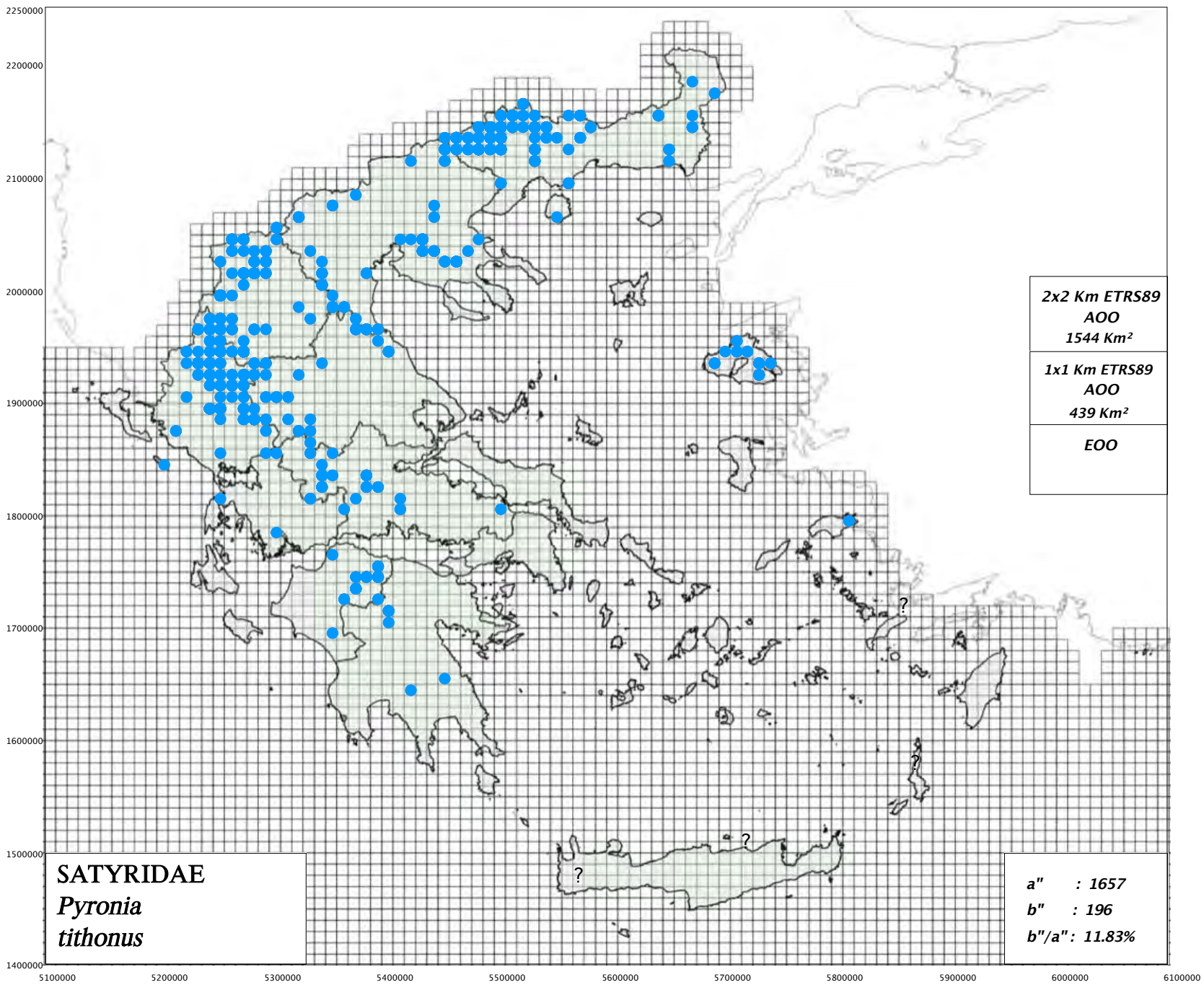


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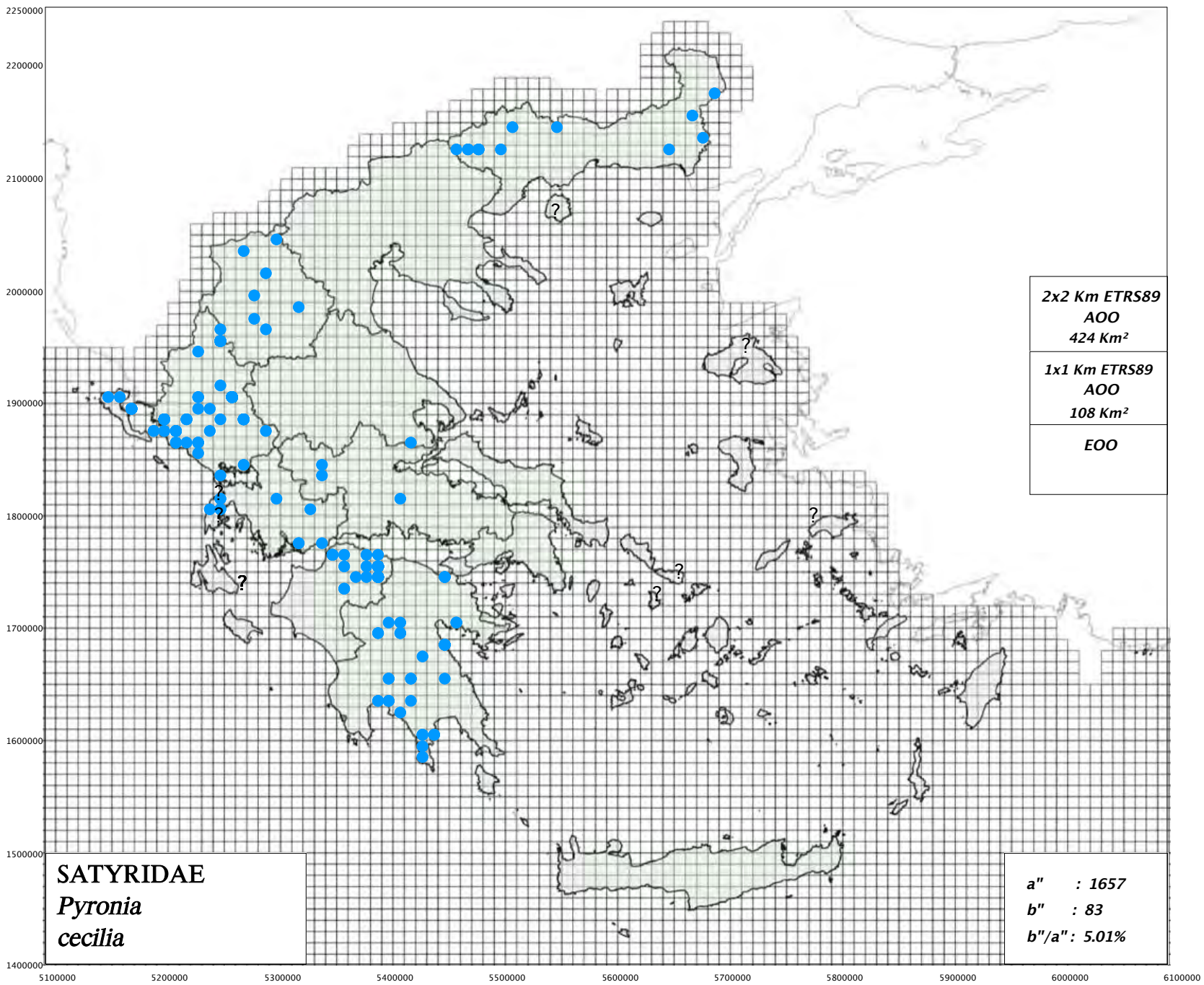




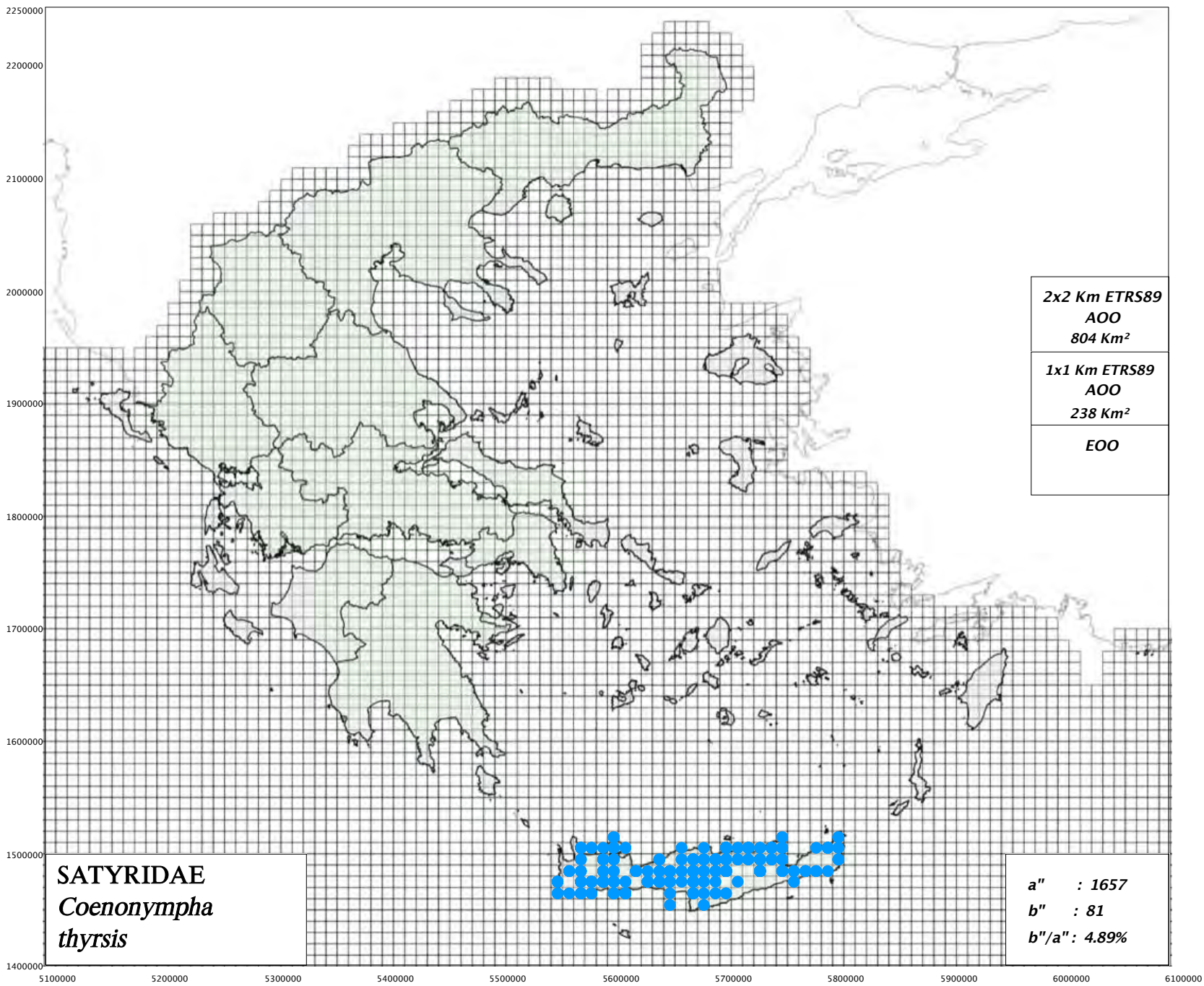




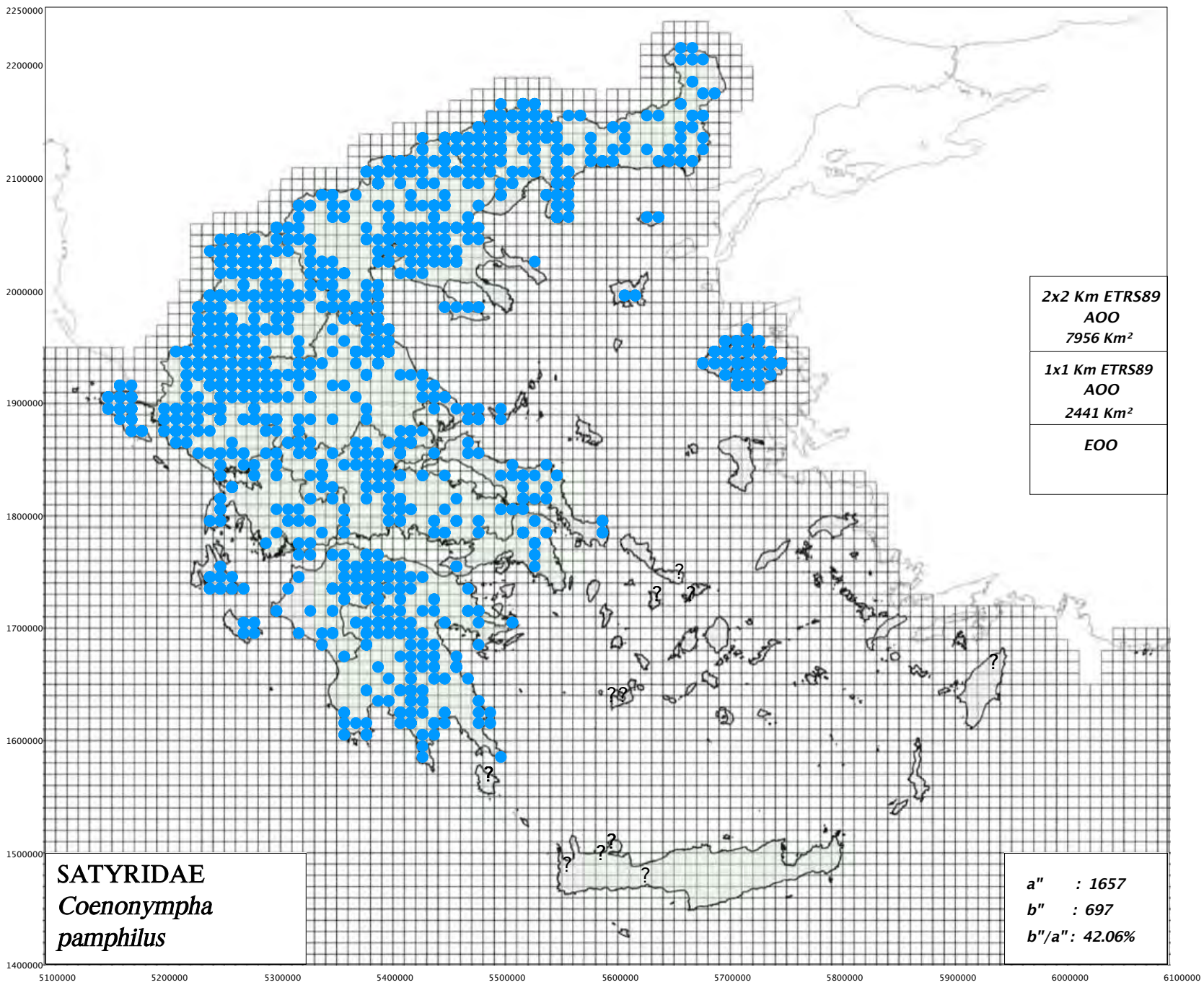


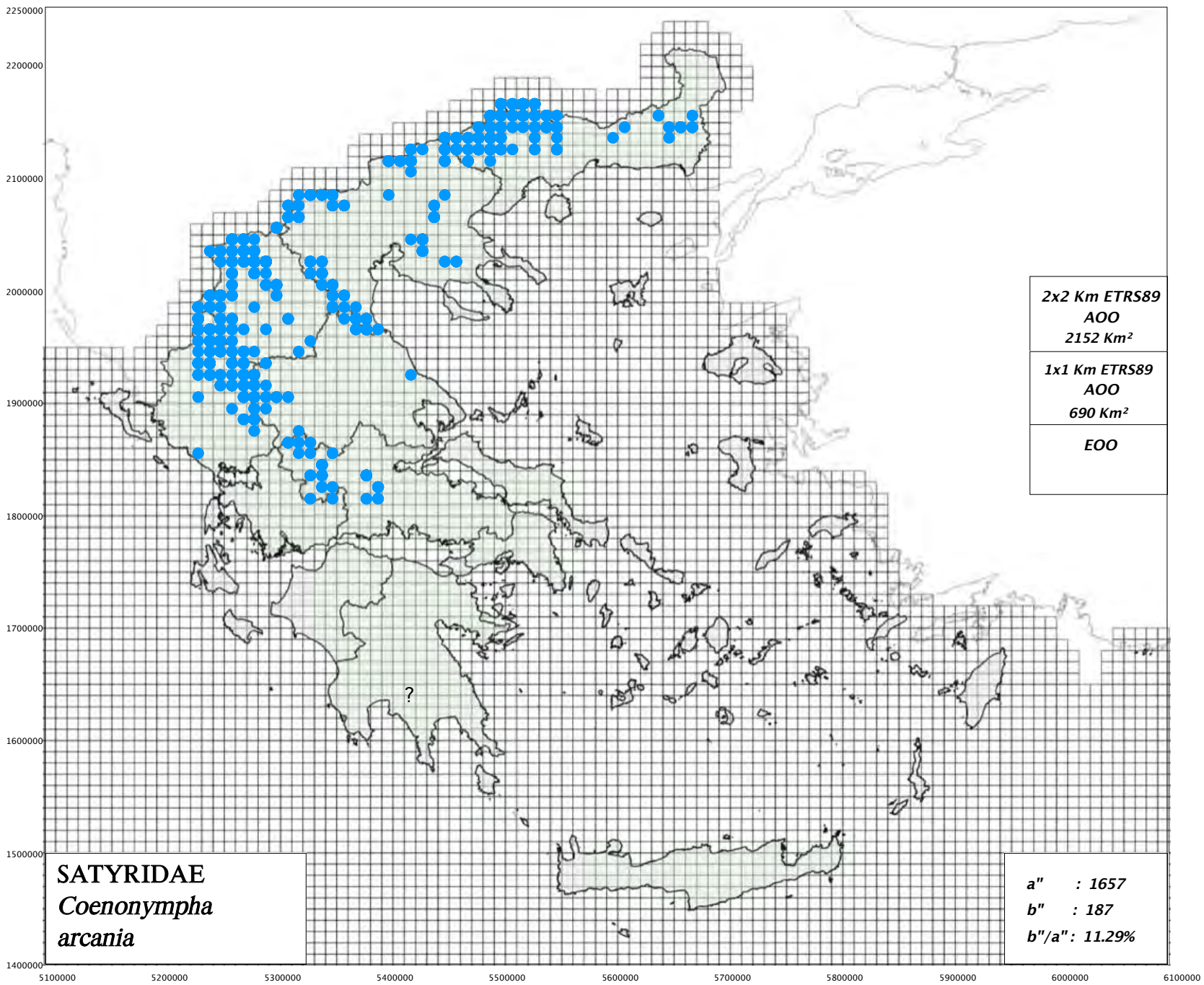


ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ  
ENDEMIC SPECIES OF GREECE

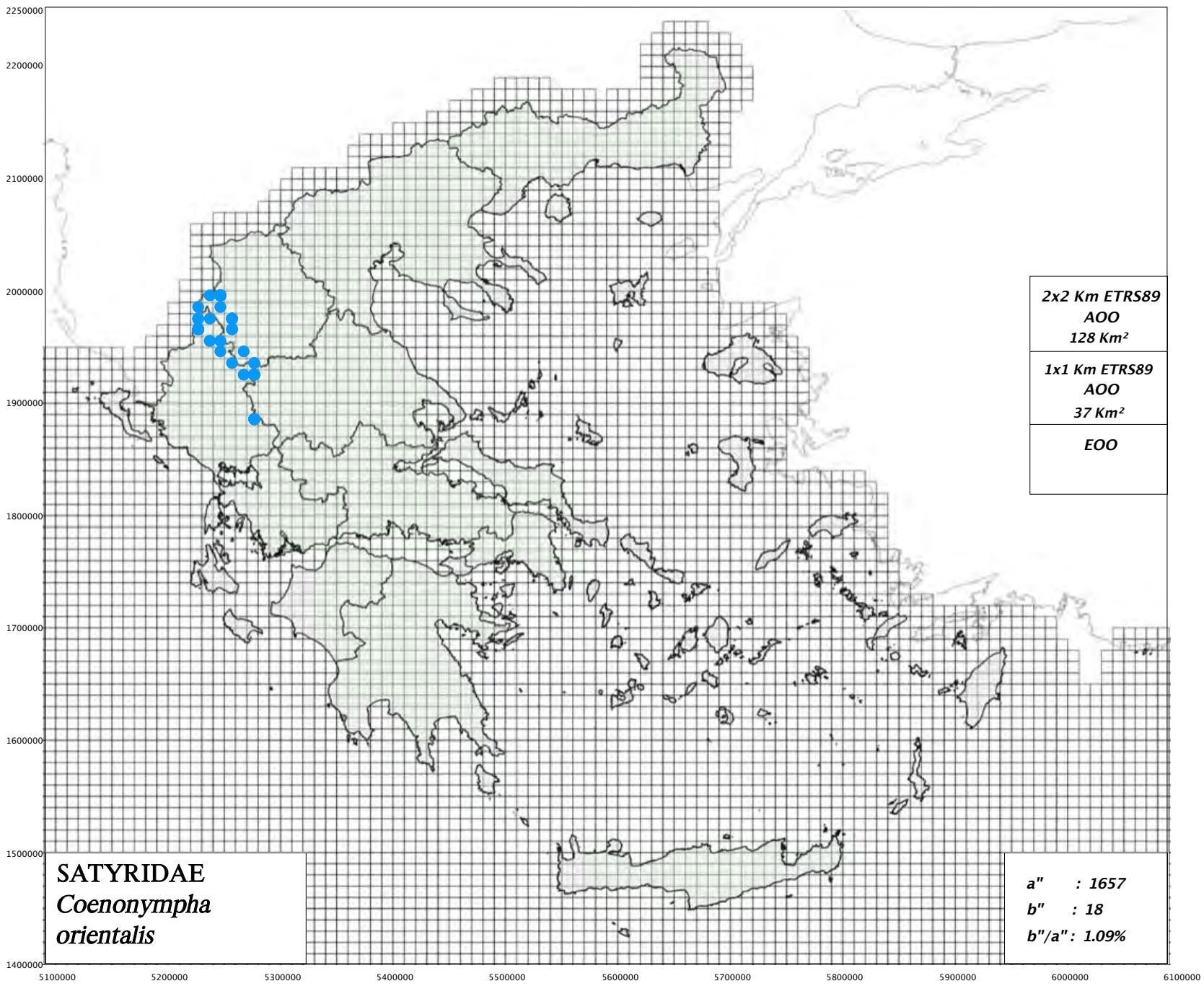


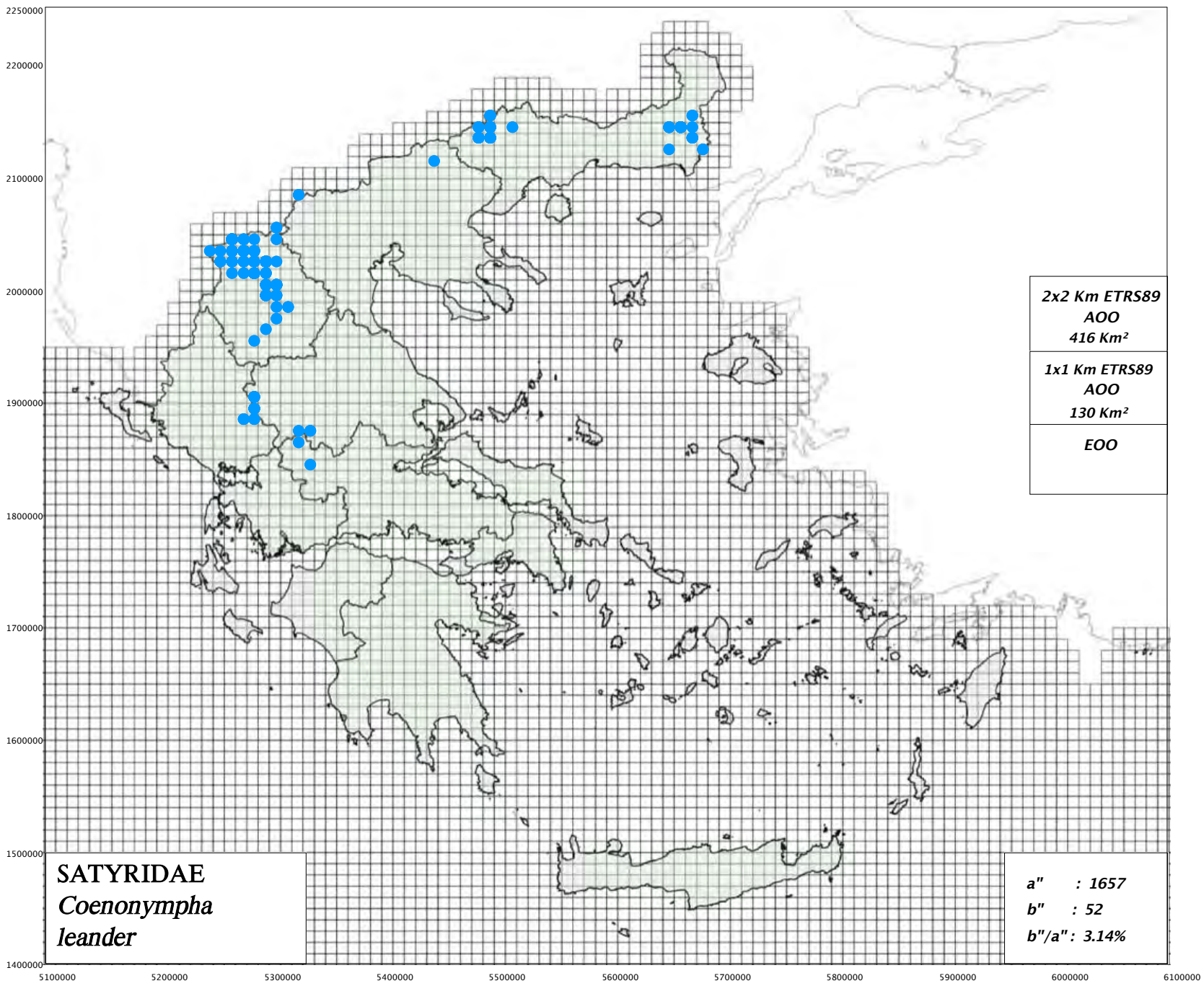




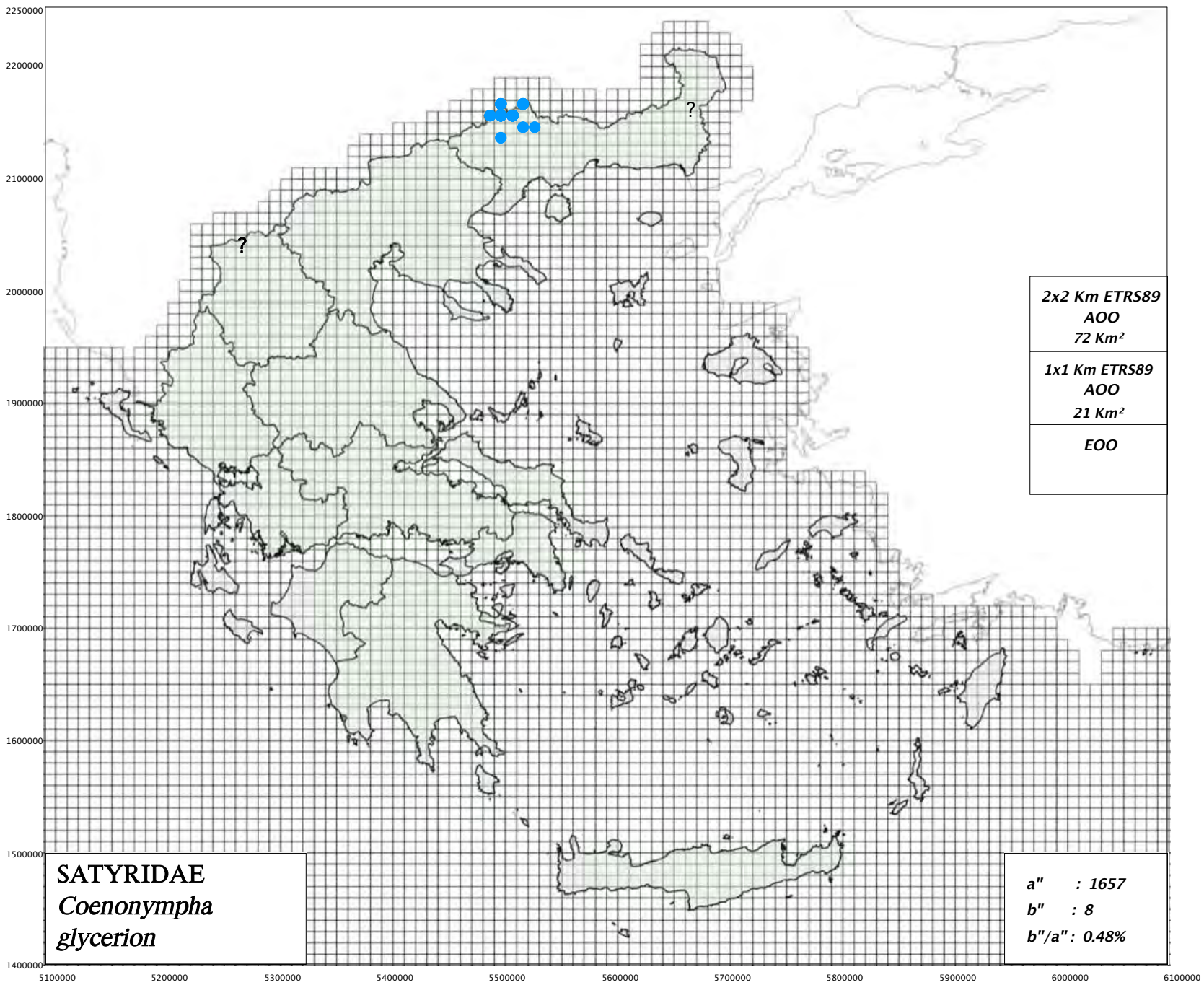


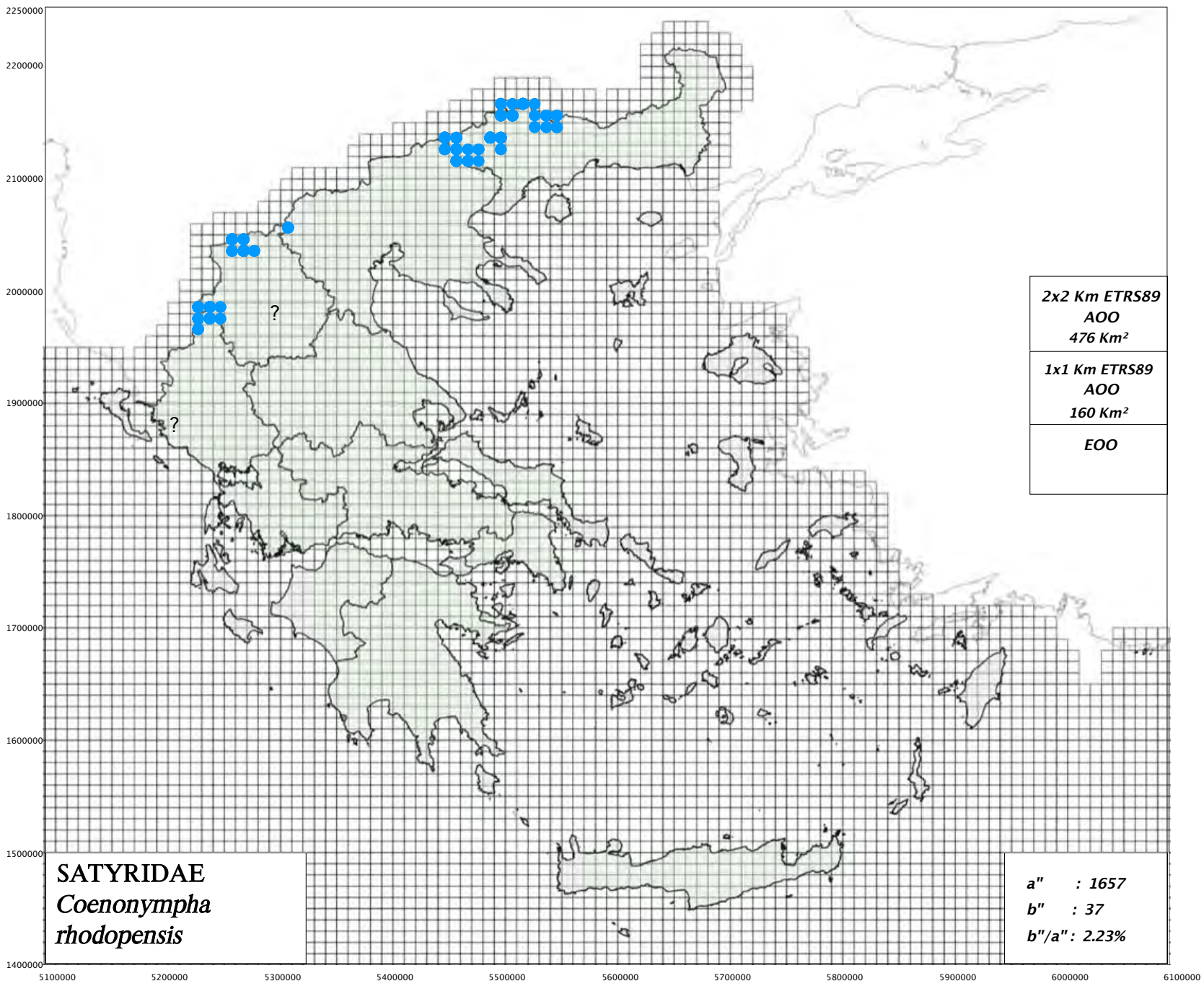




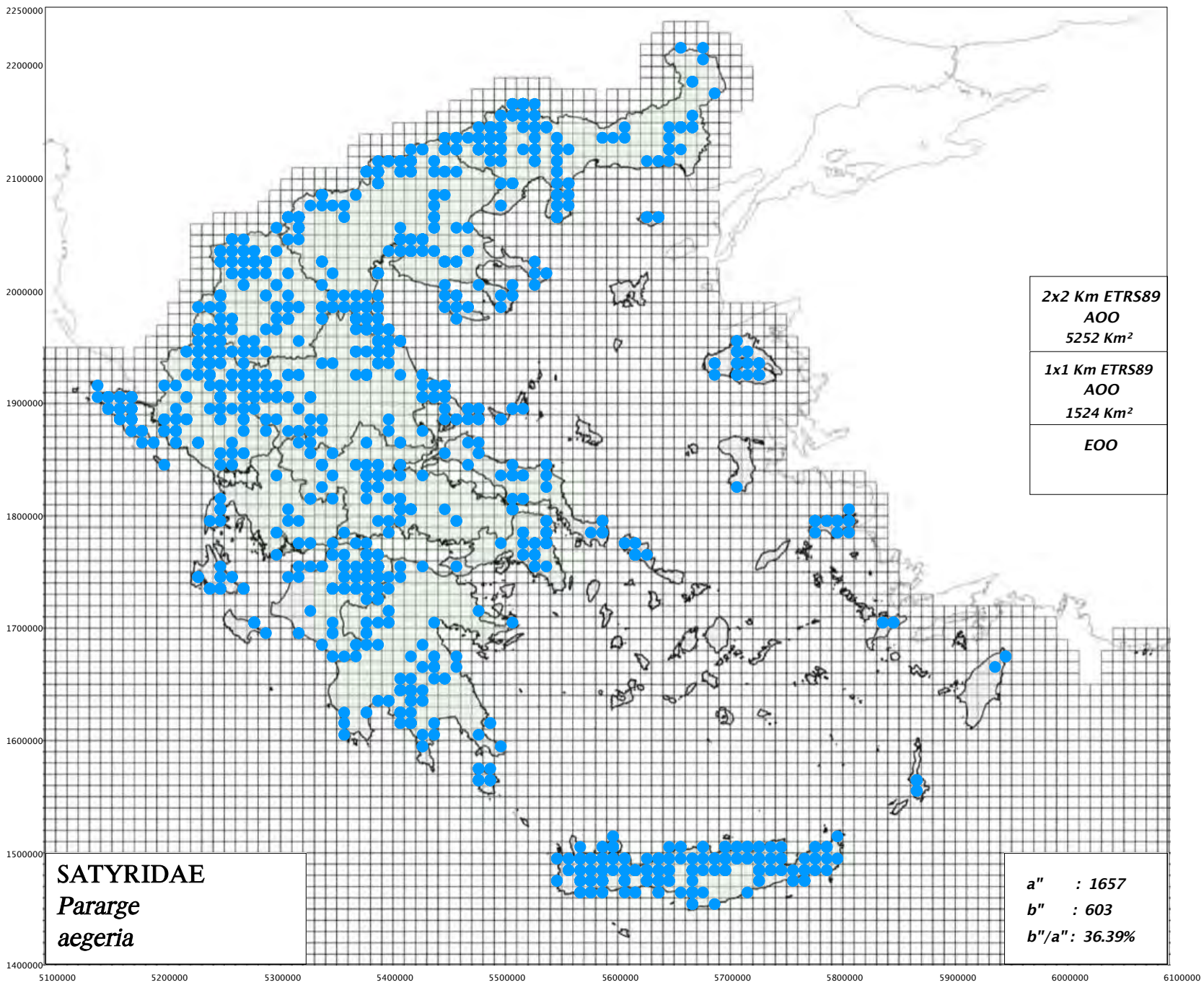


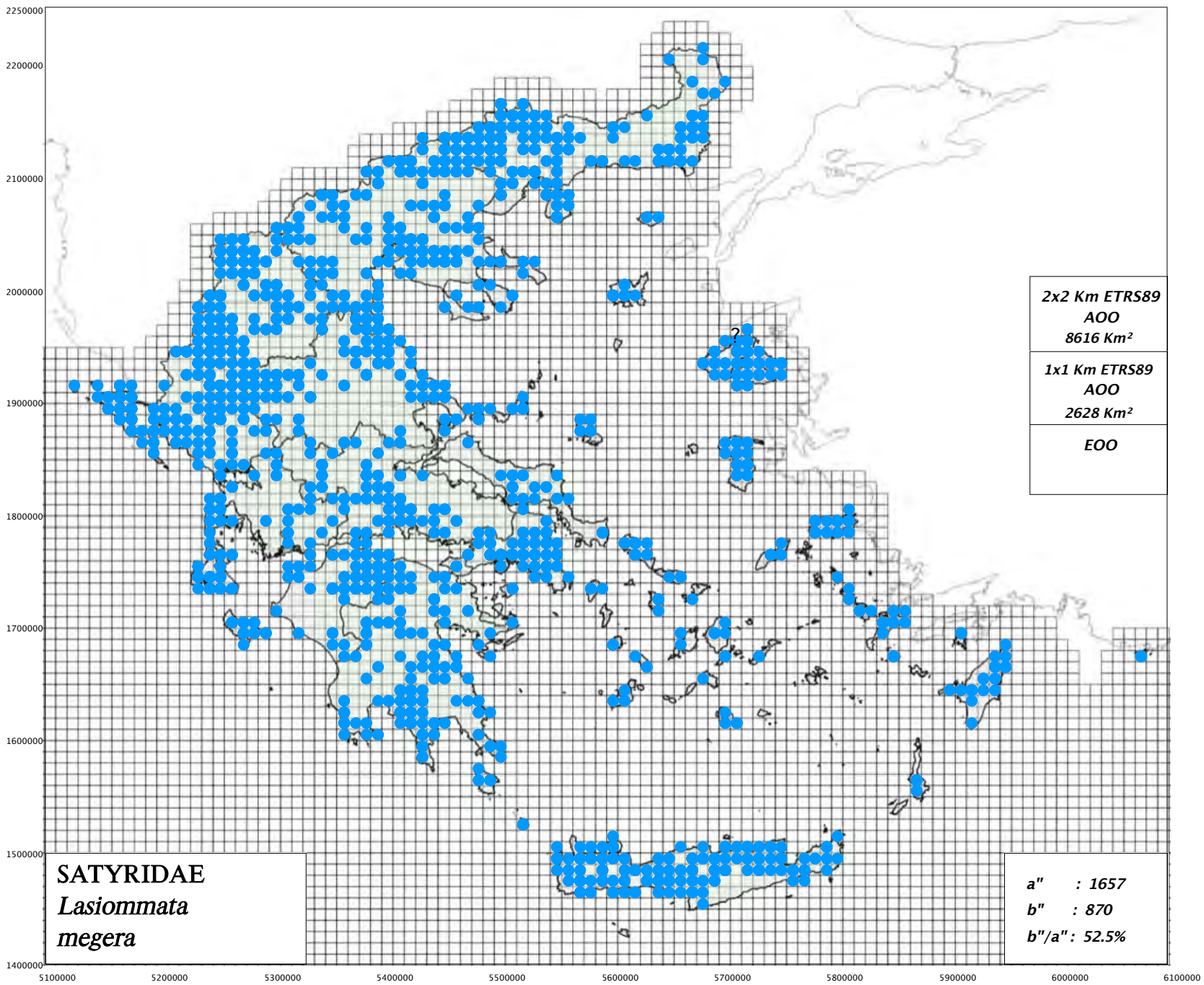






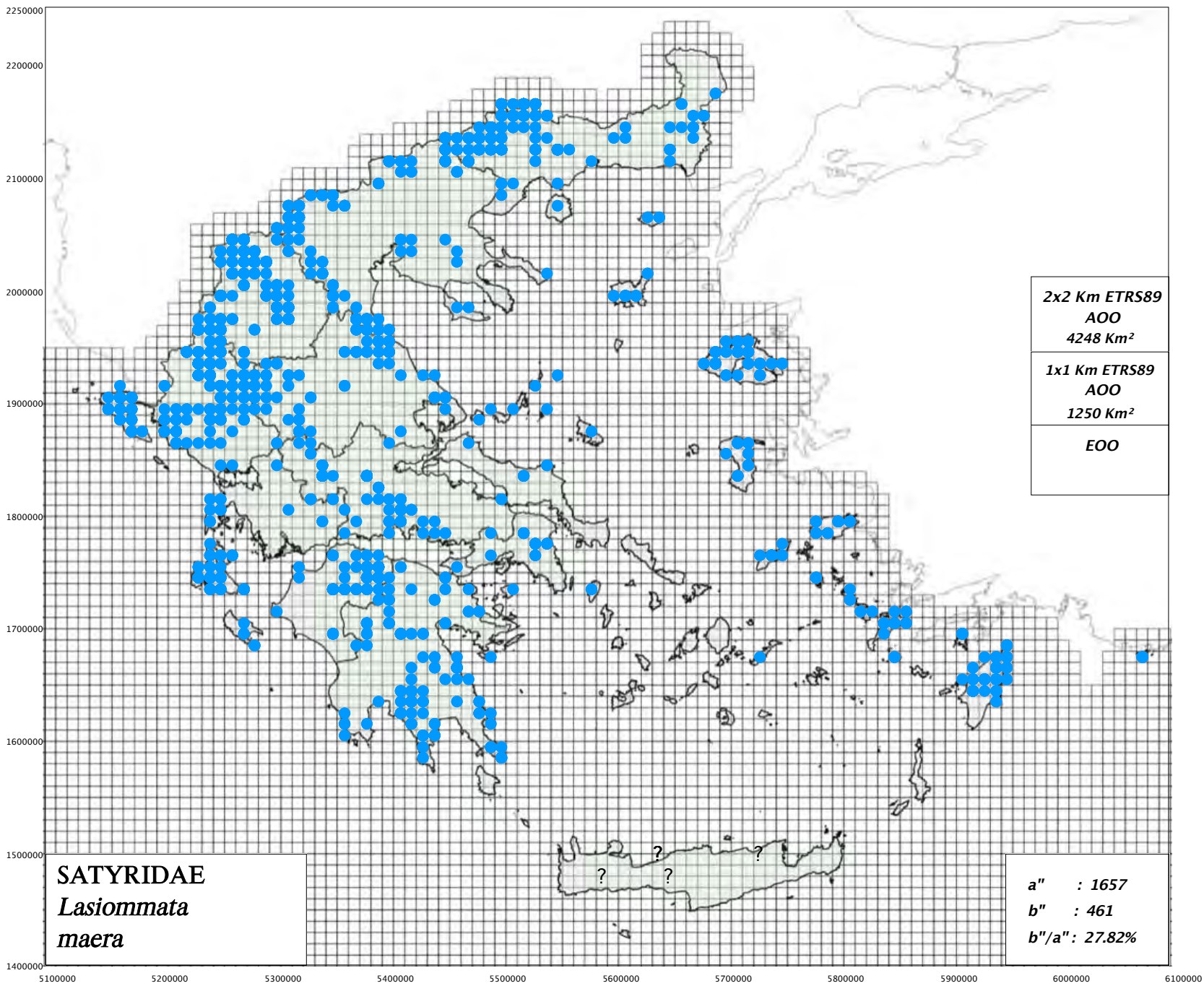




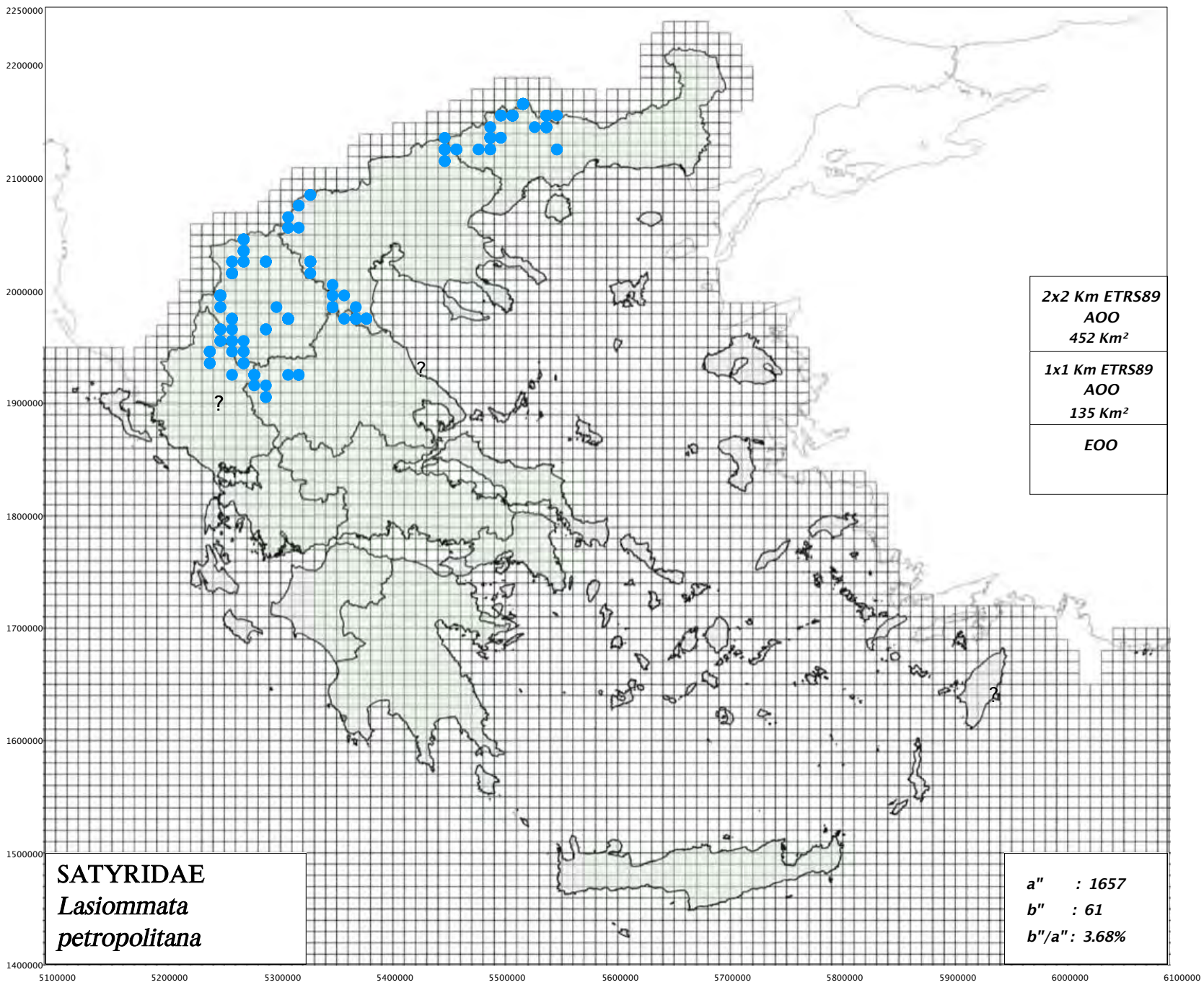


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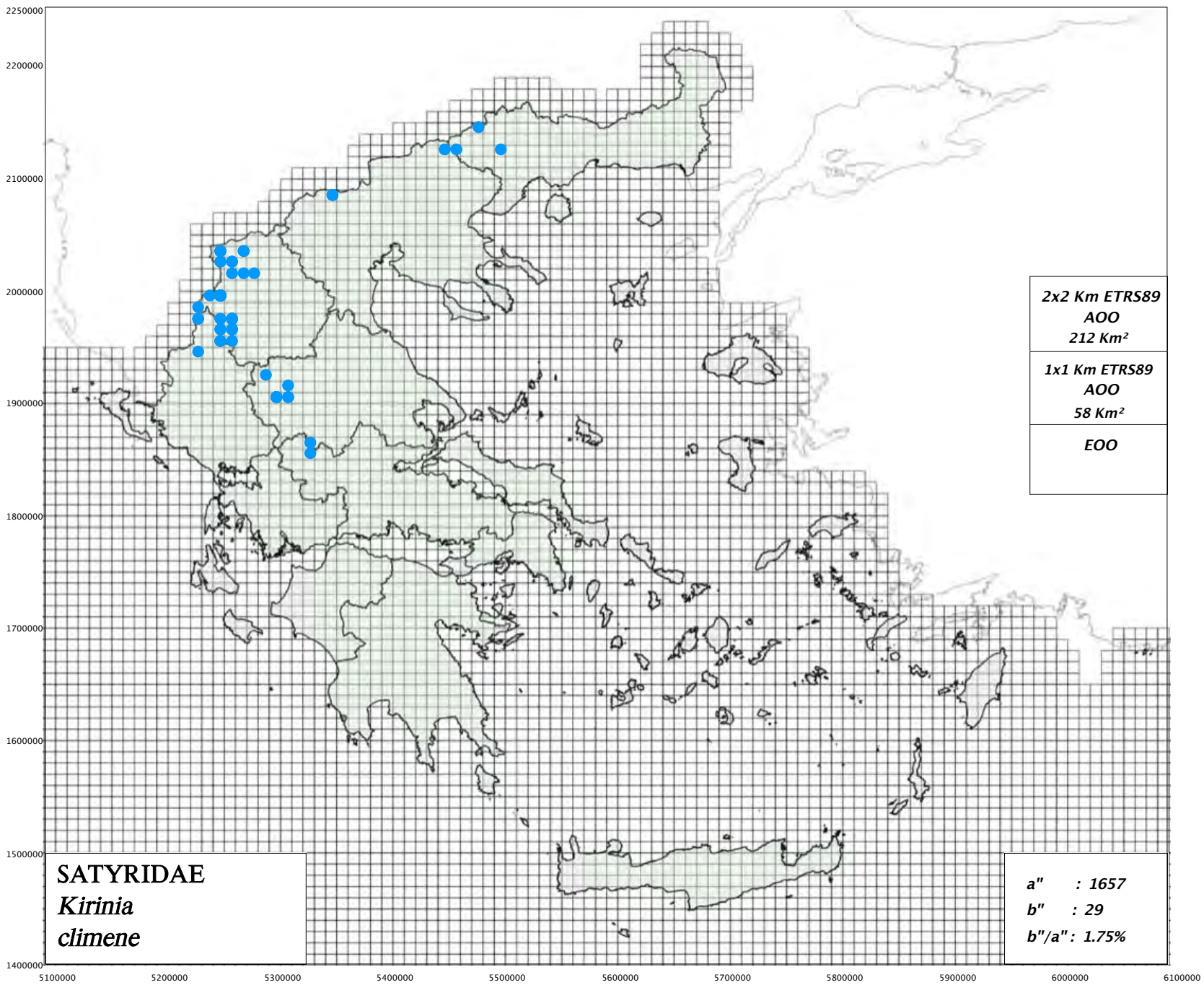


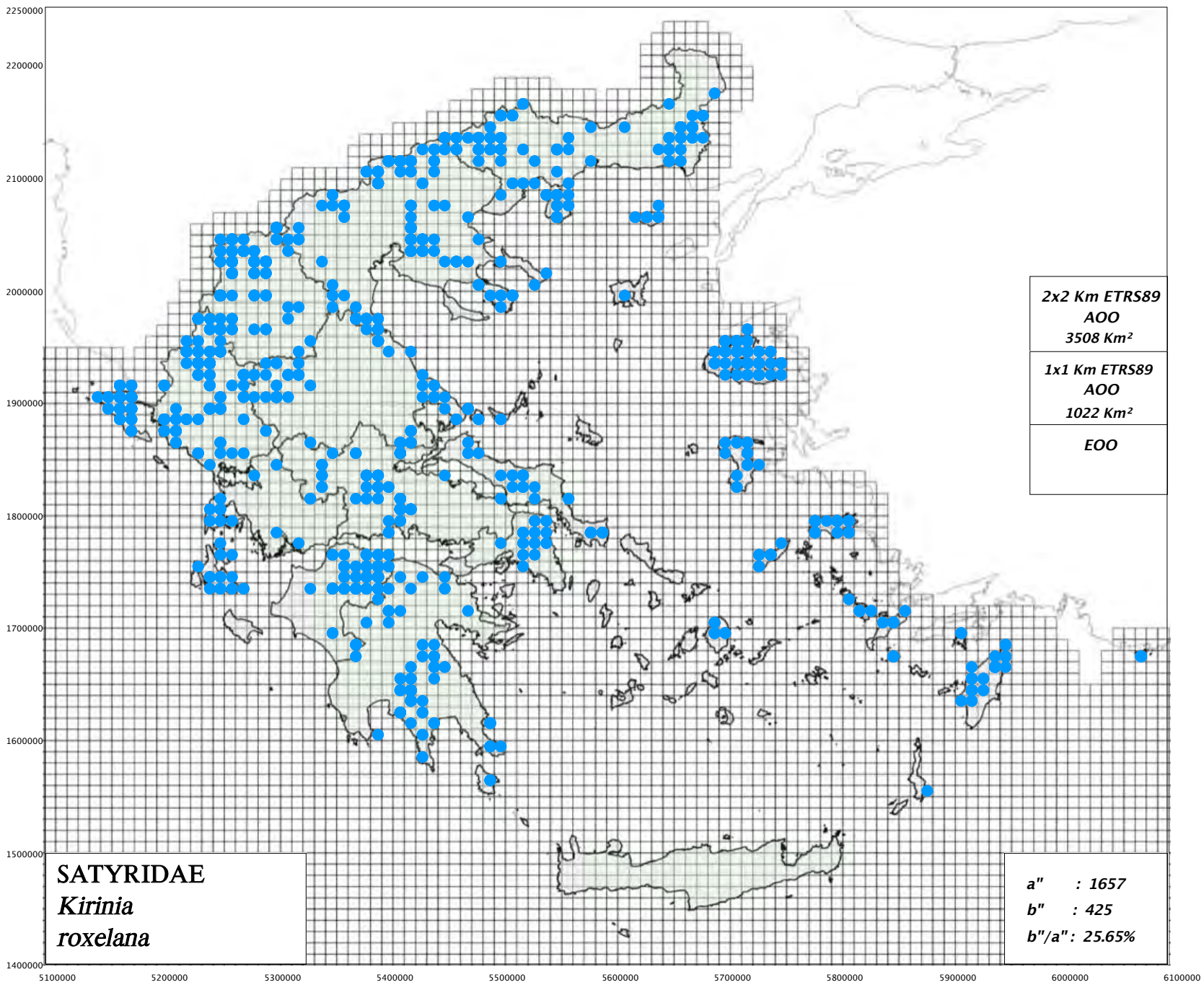
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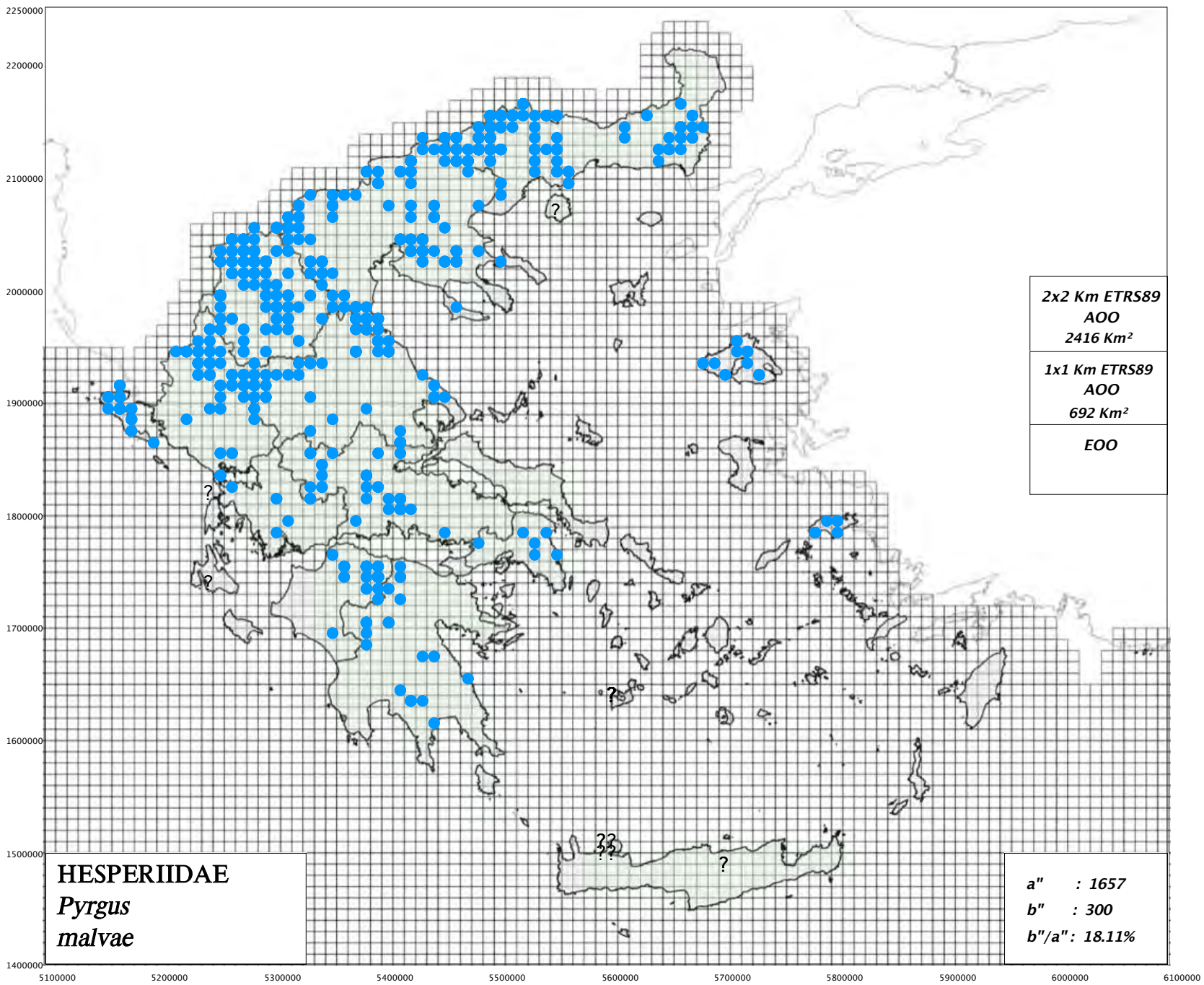
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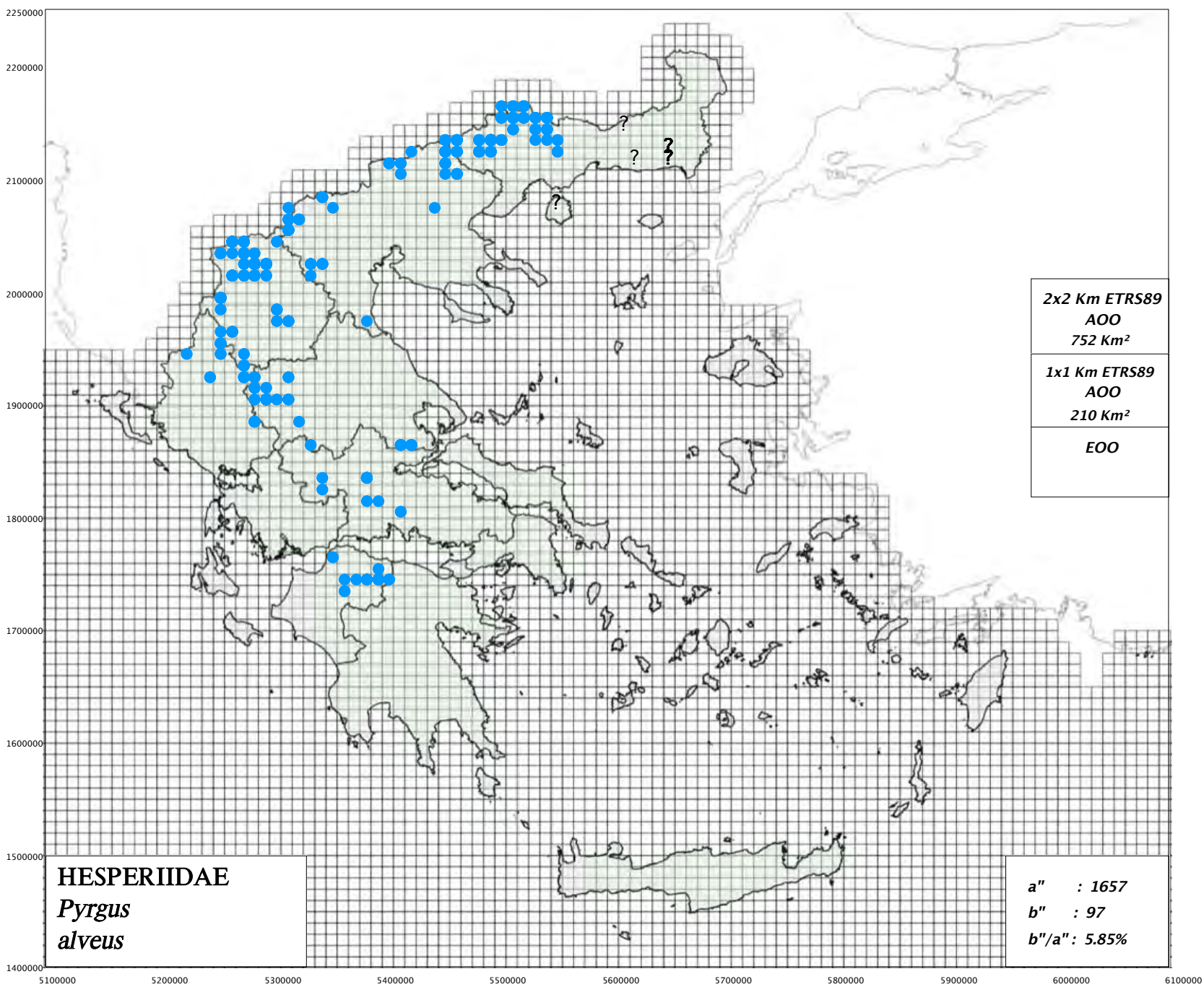






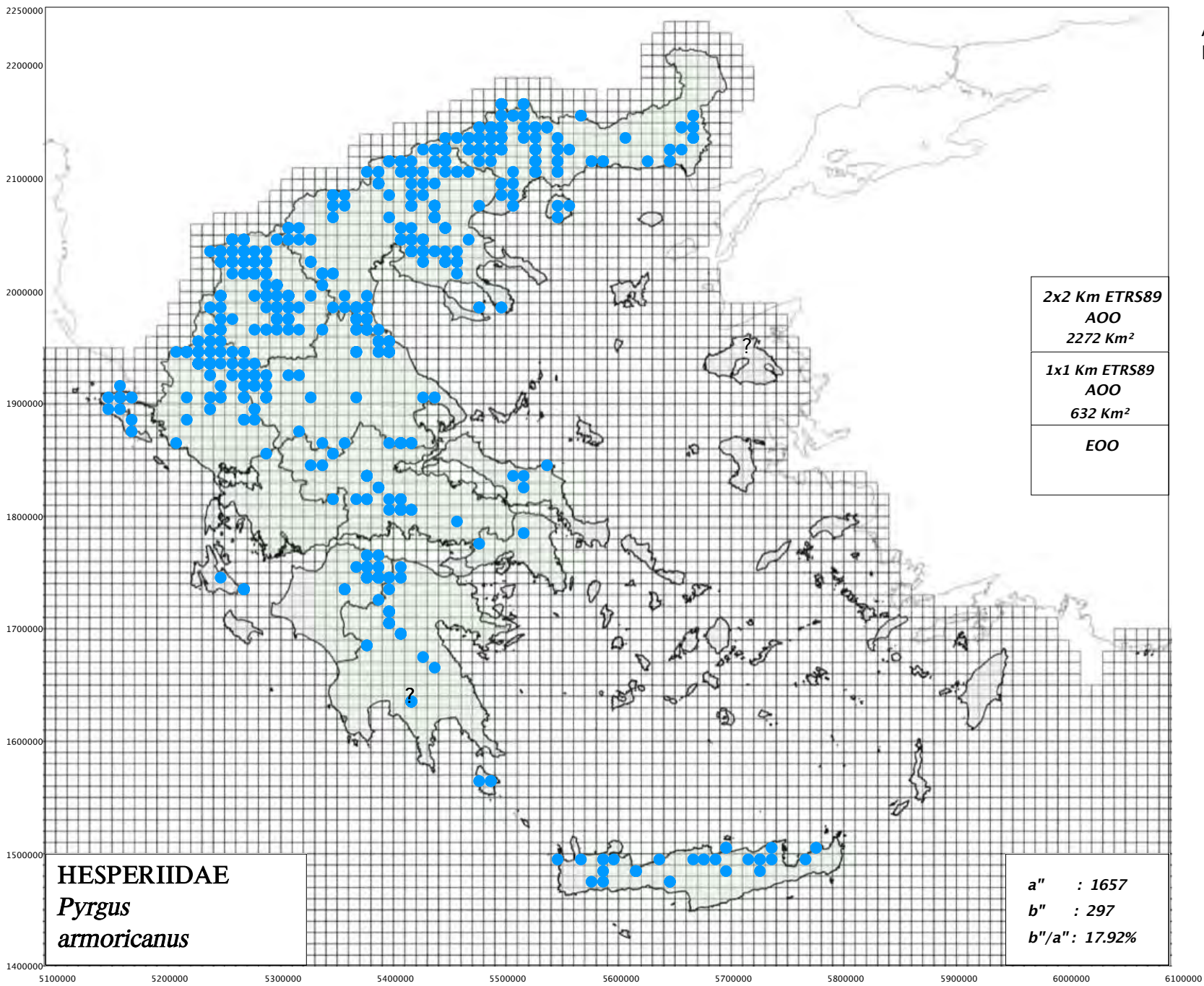
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Αμφίβολη αναγνώριση /  
Identification Uncertain

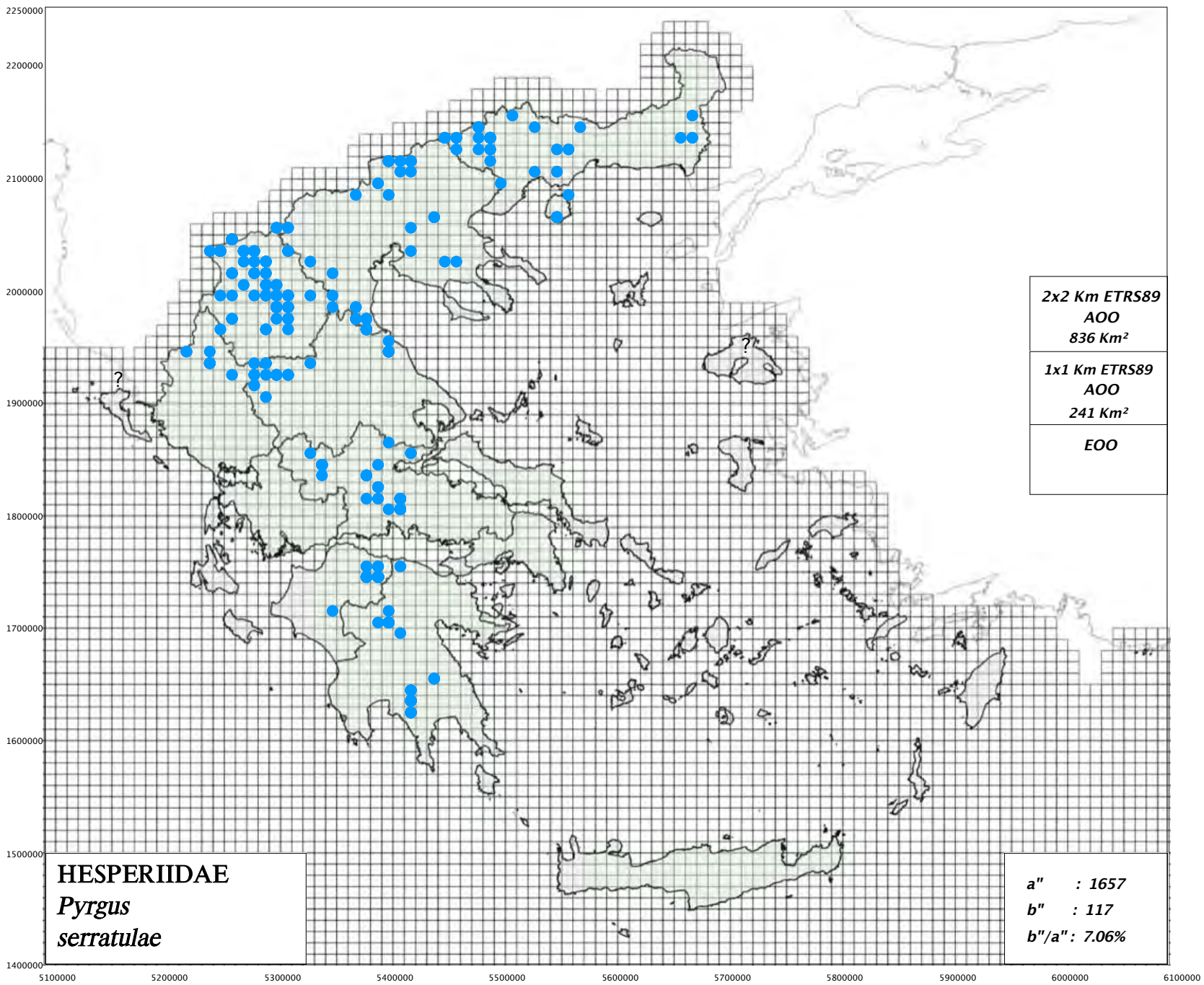




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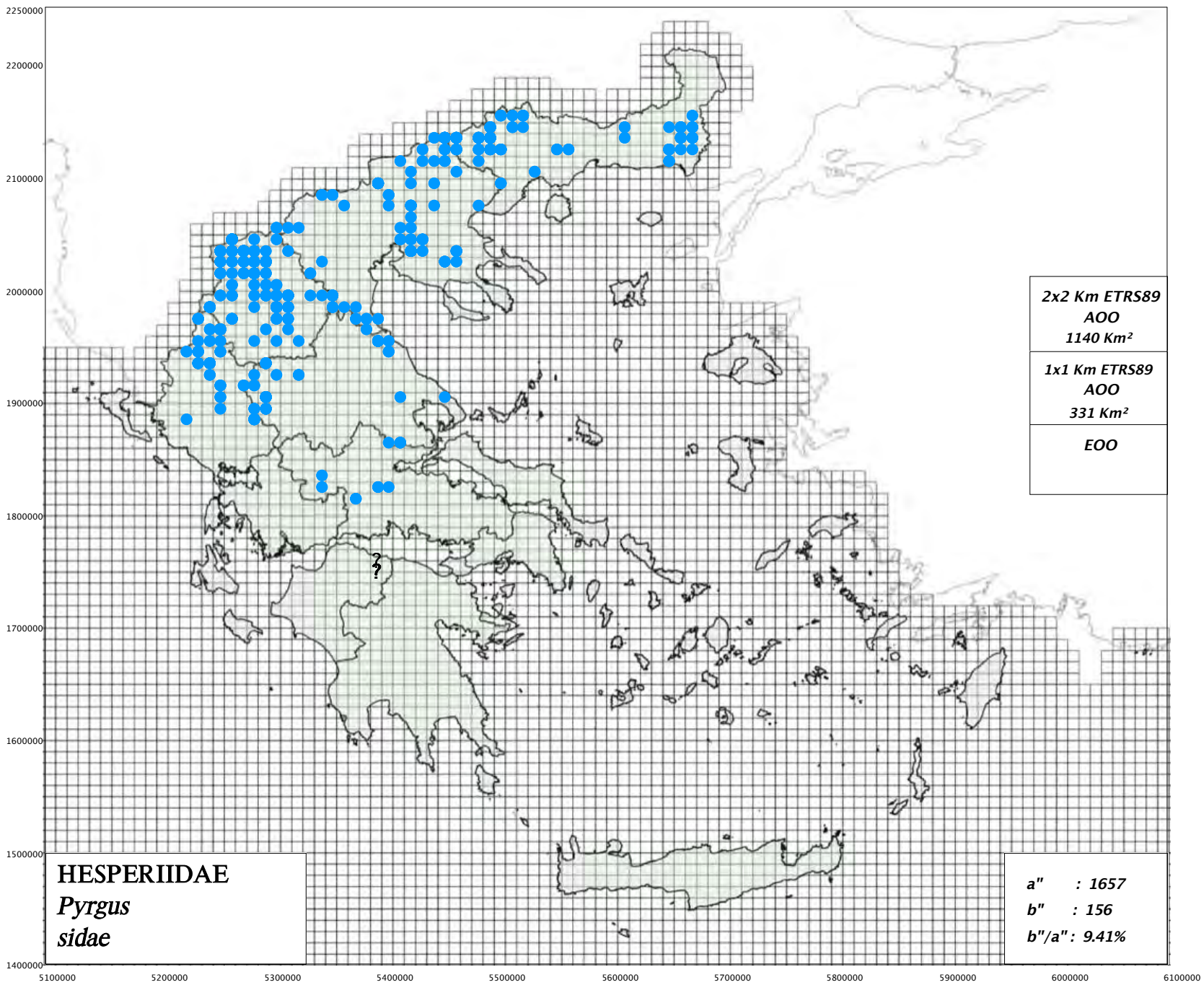


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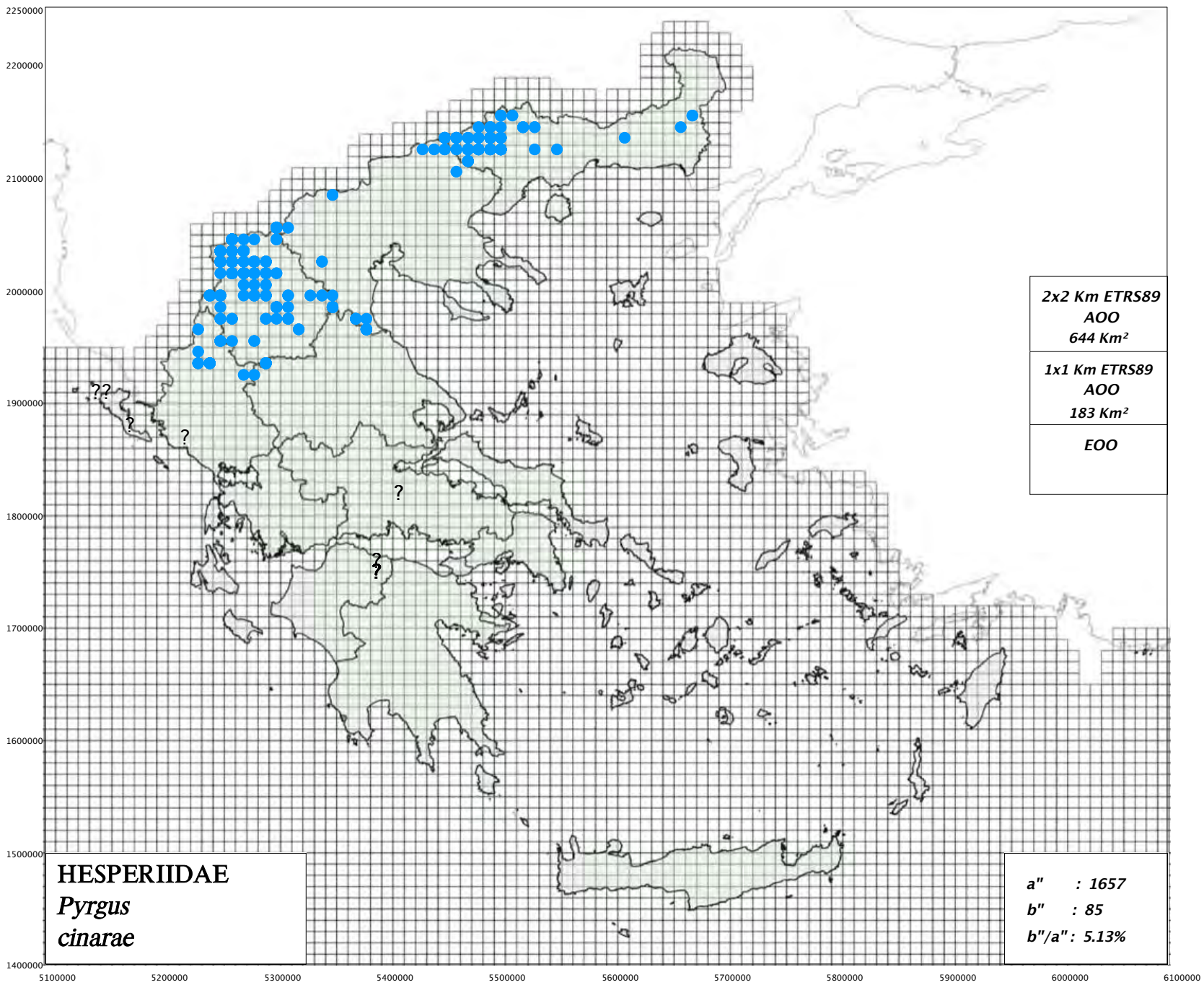


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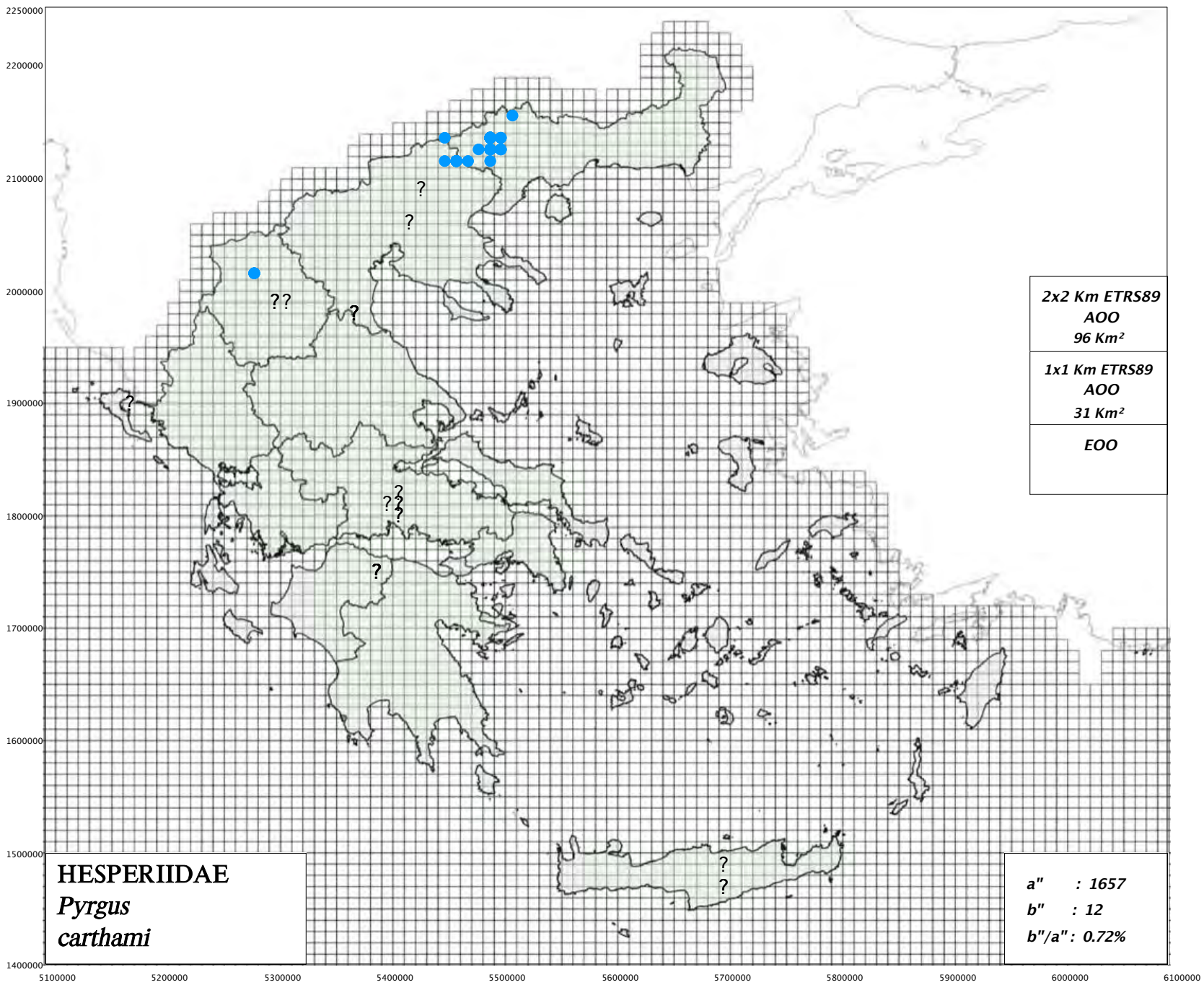


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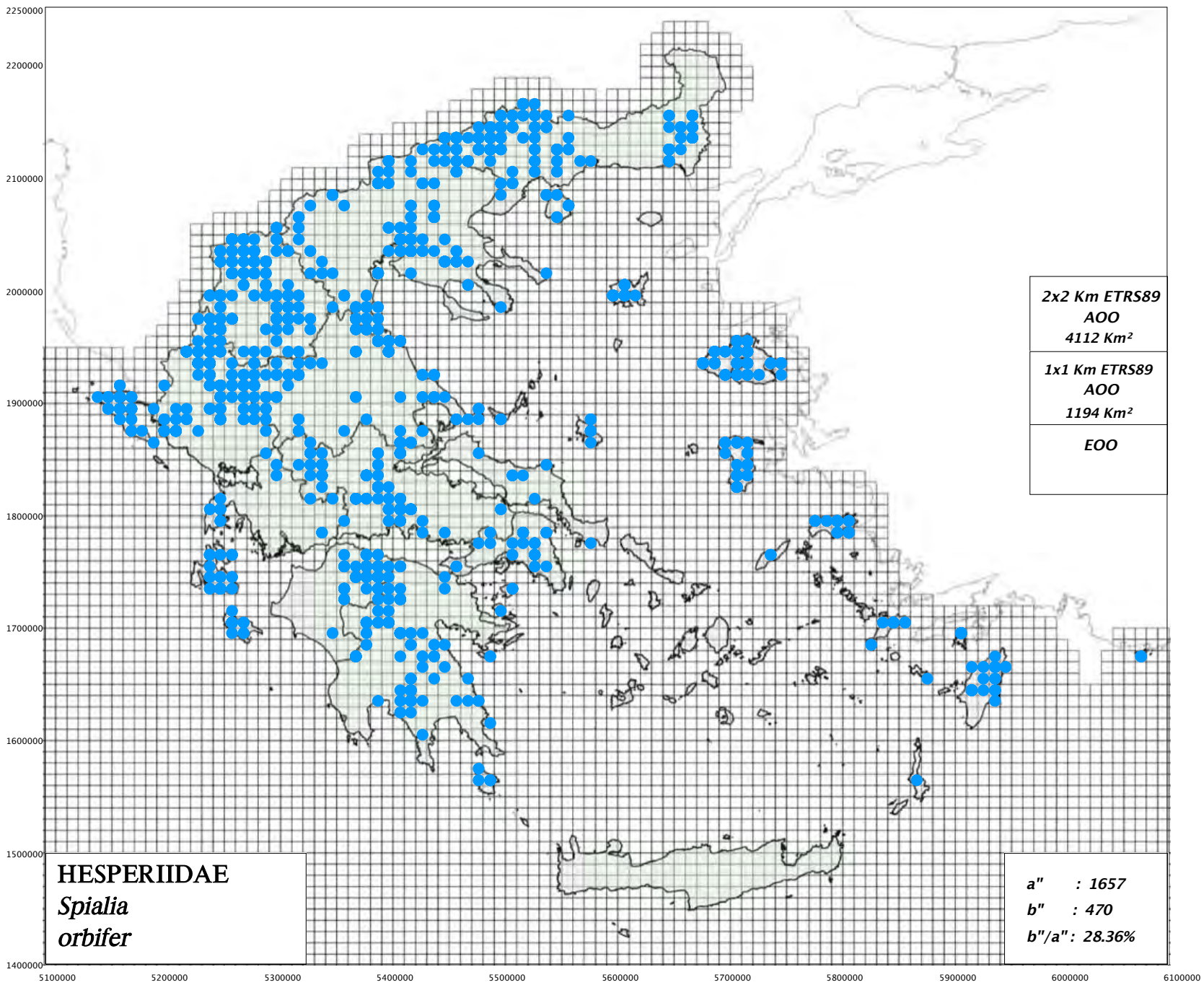


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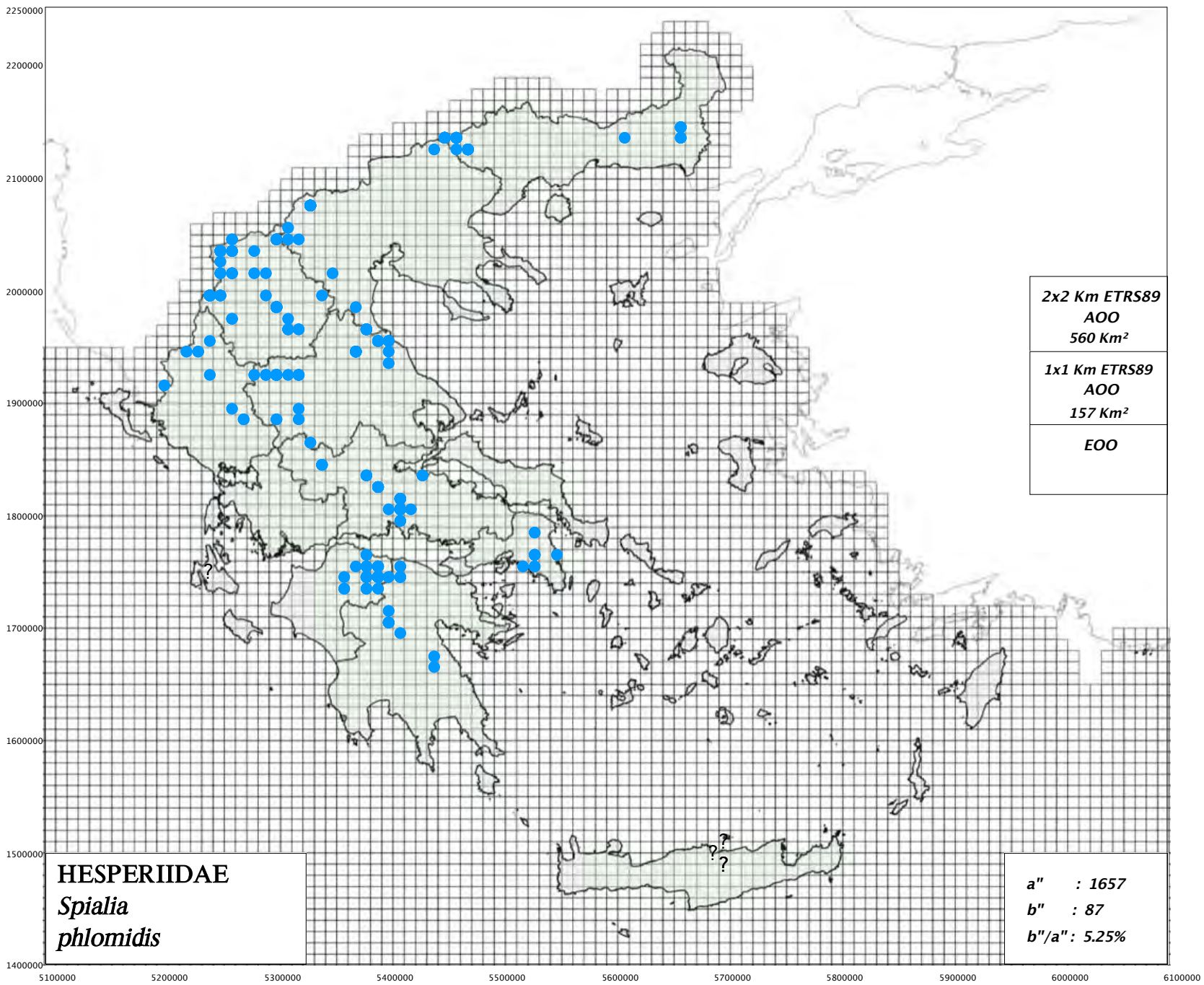


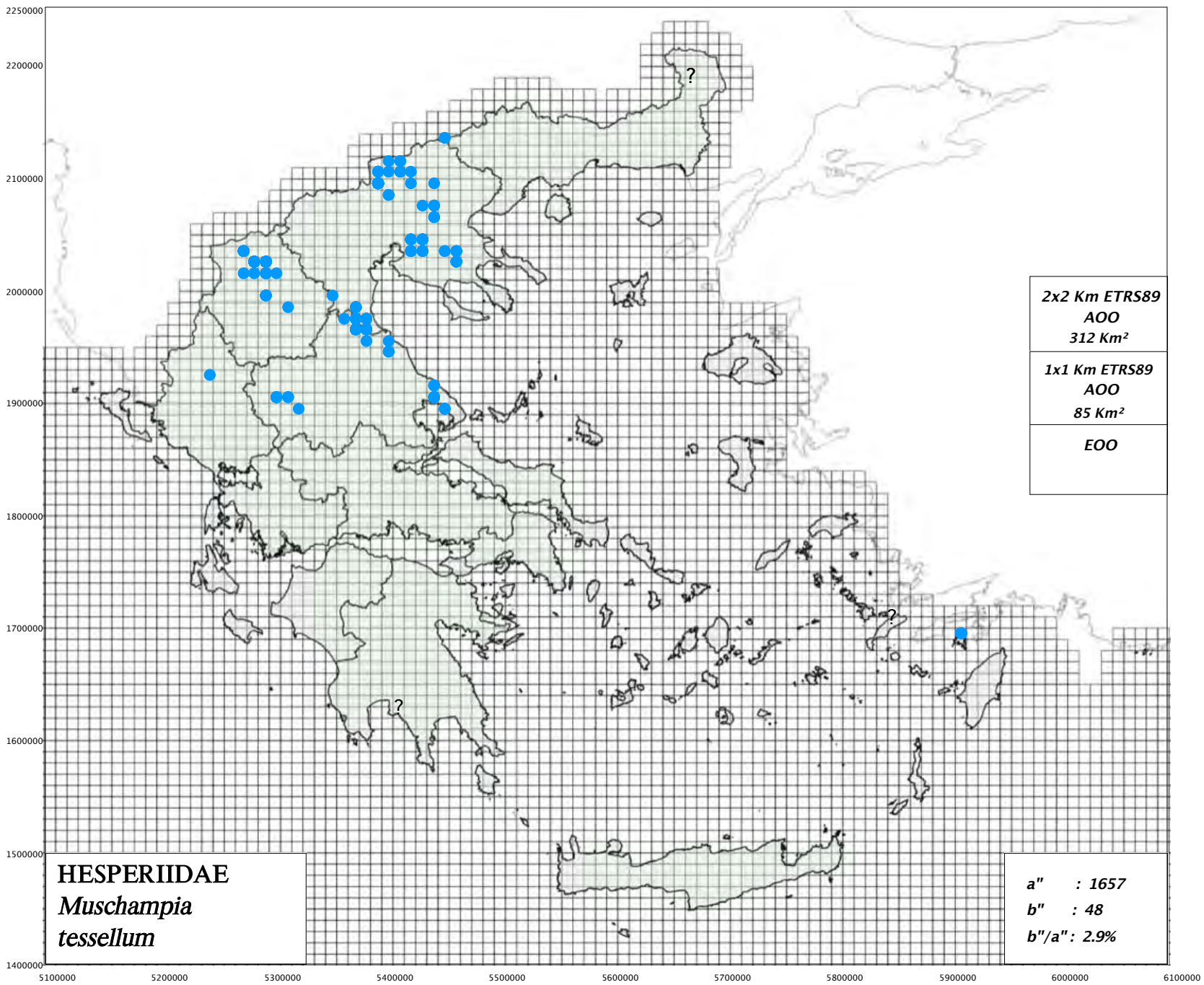


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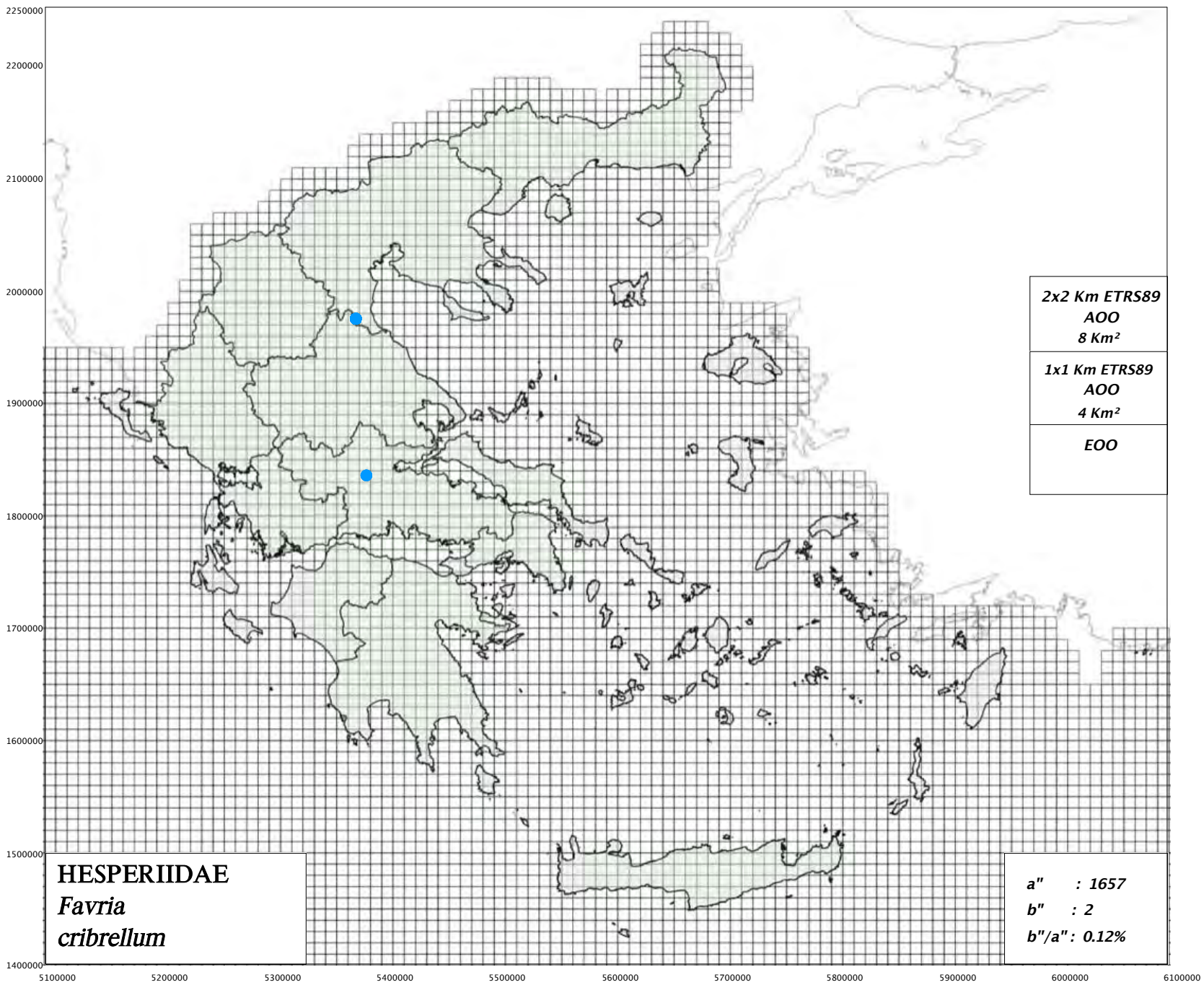




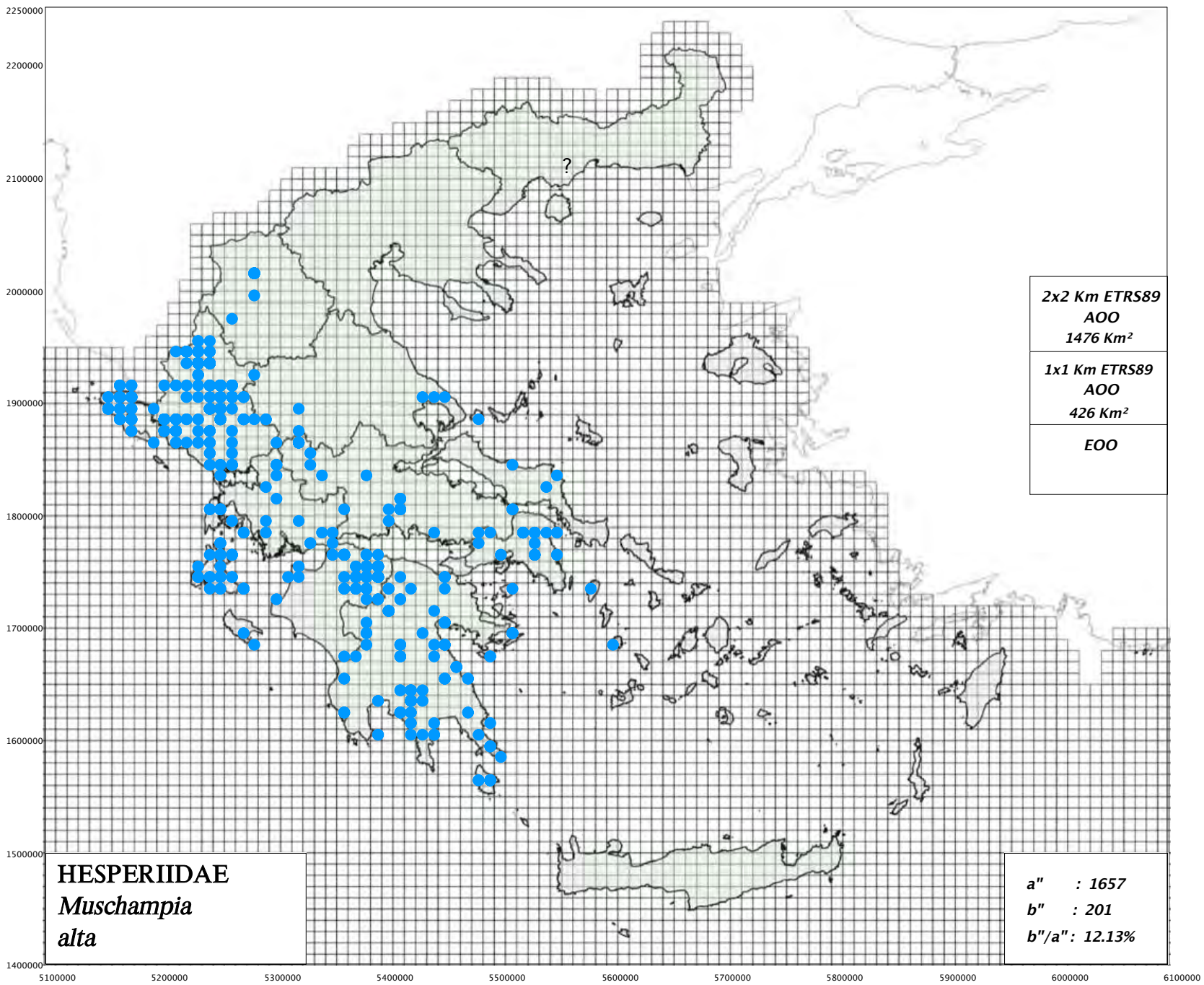


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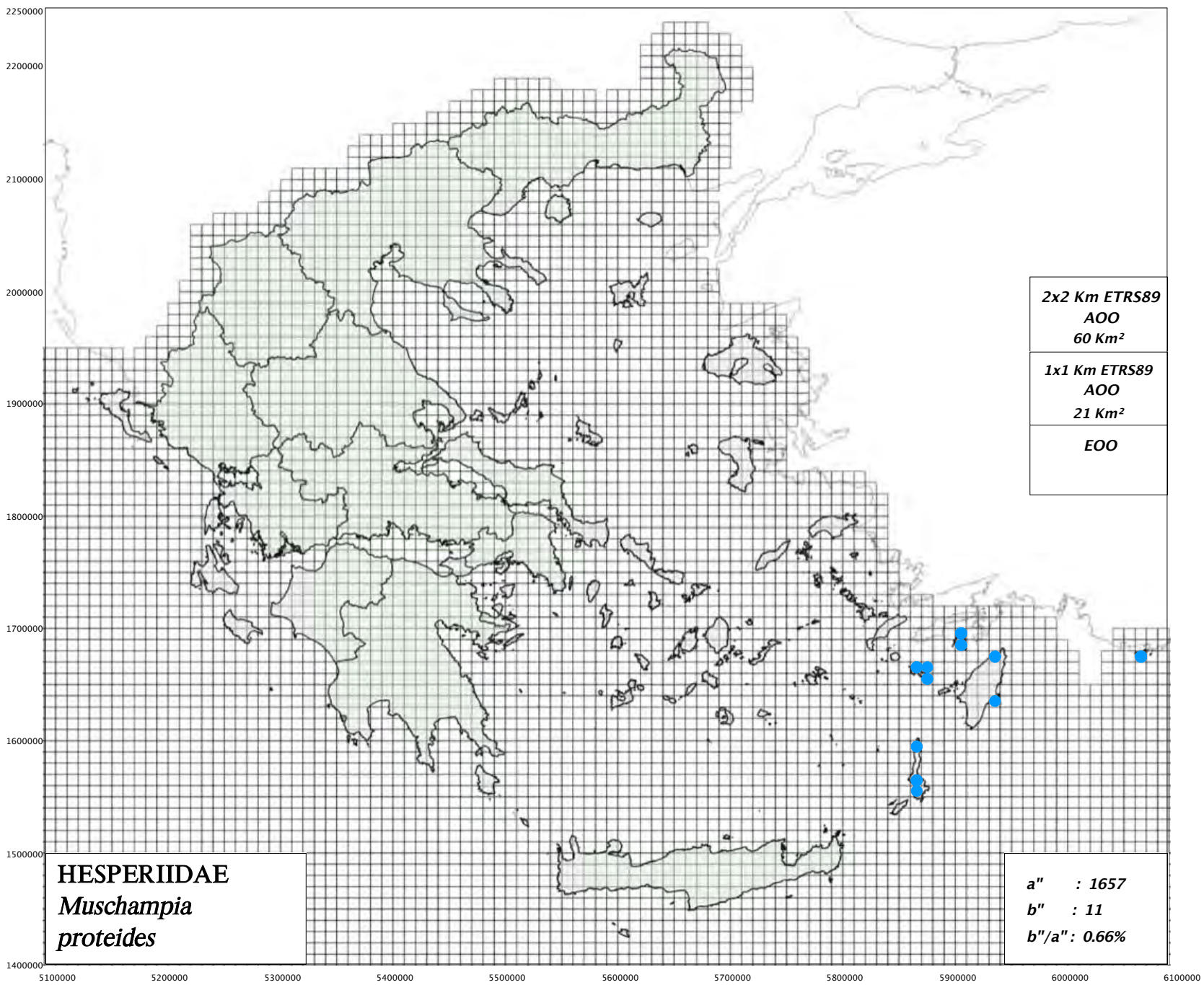


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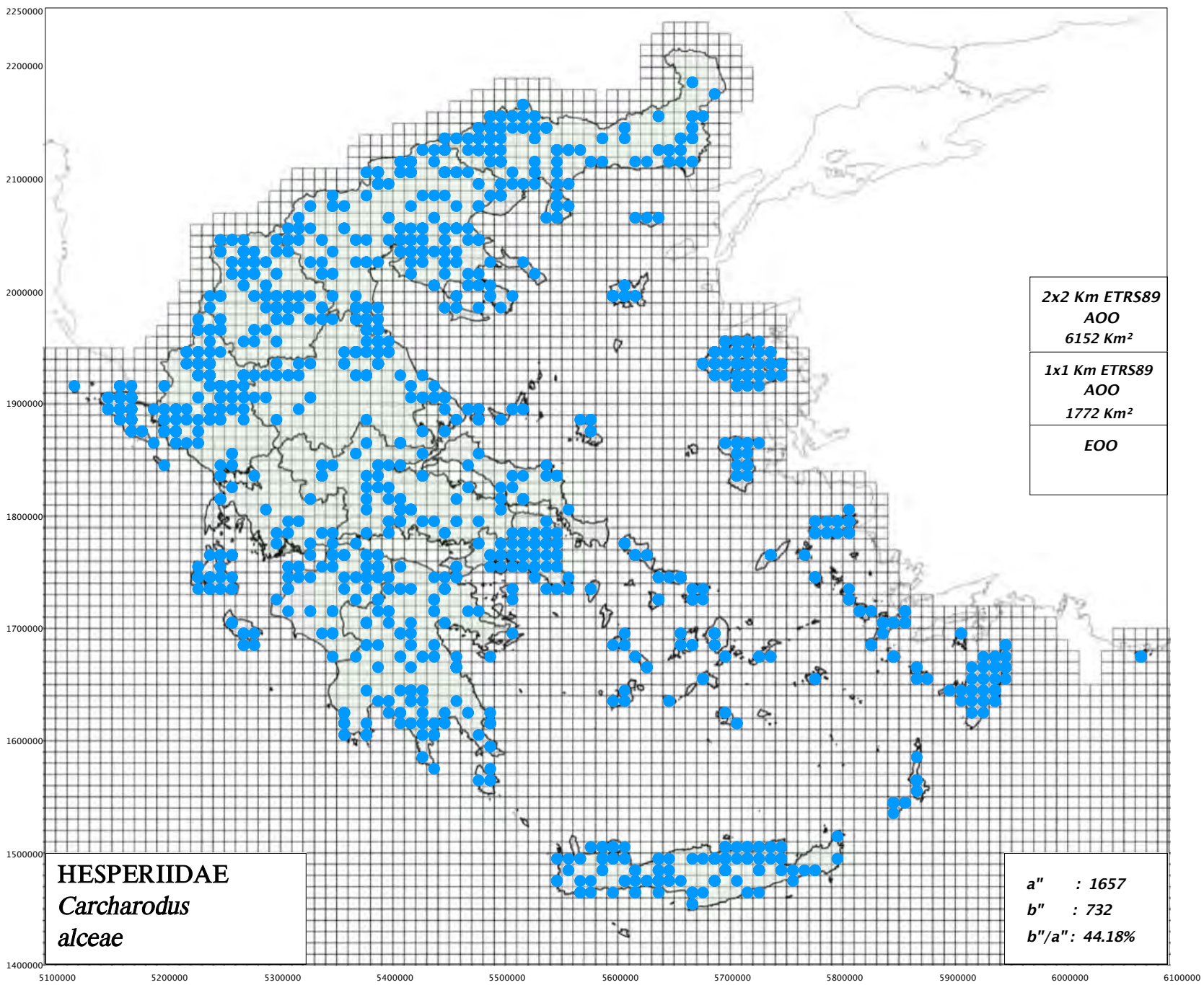


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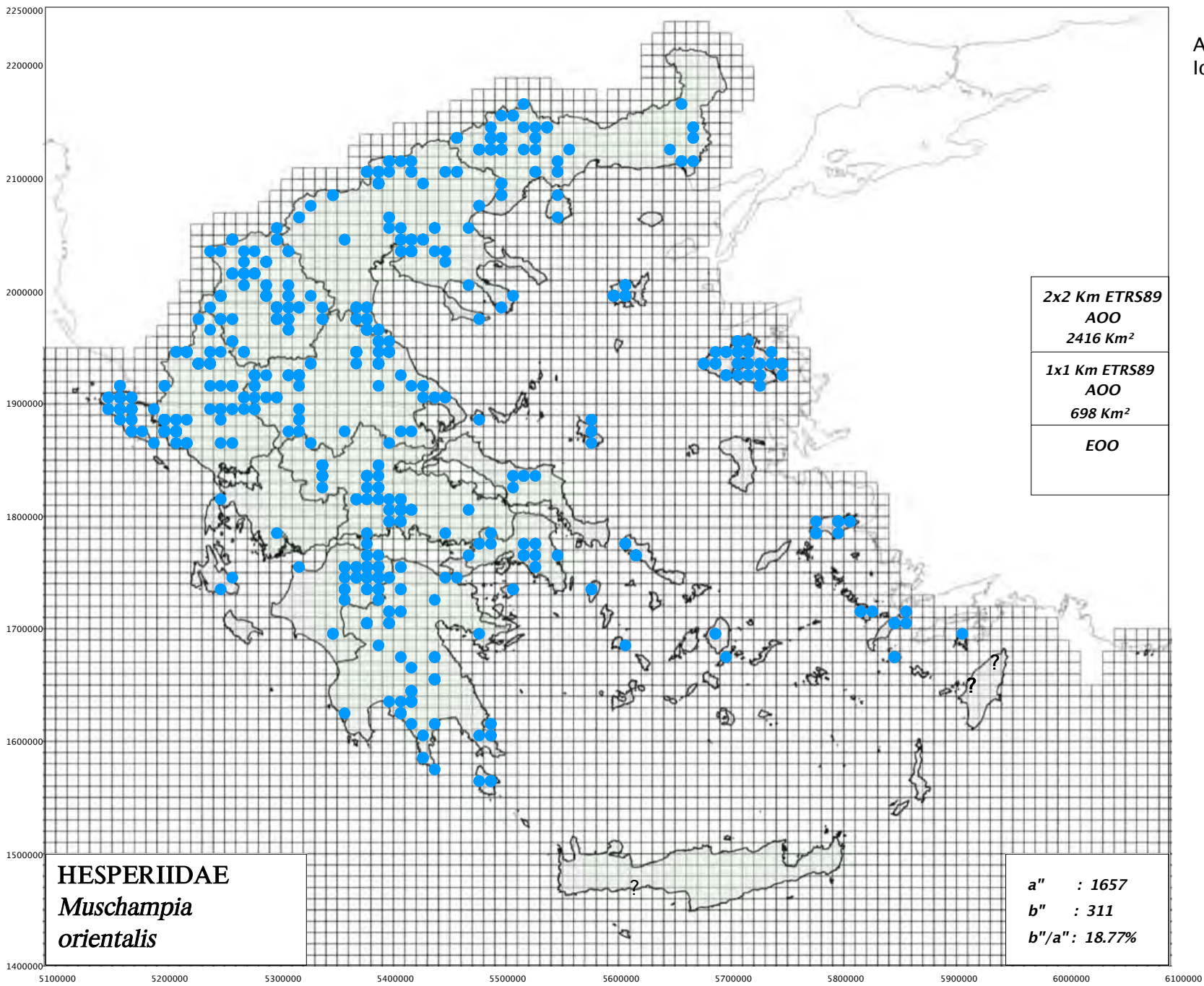
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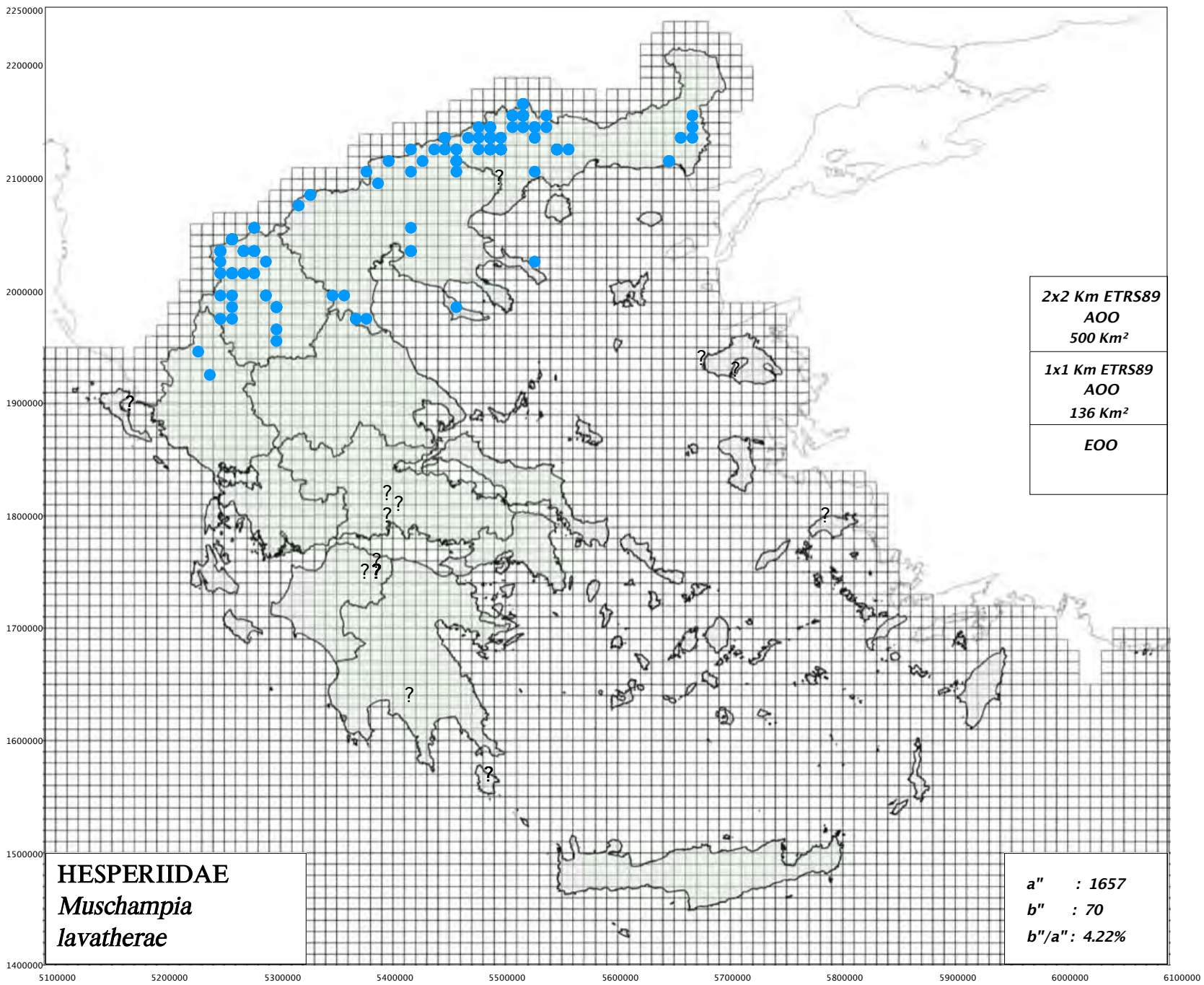
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Αμφίβολη αναγνώριση /  
Identification Uncertain



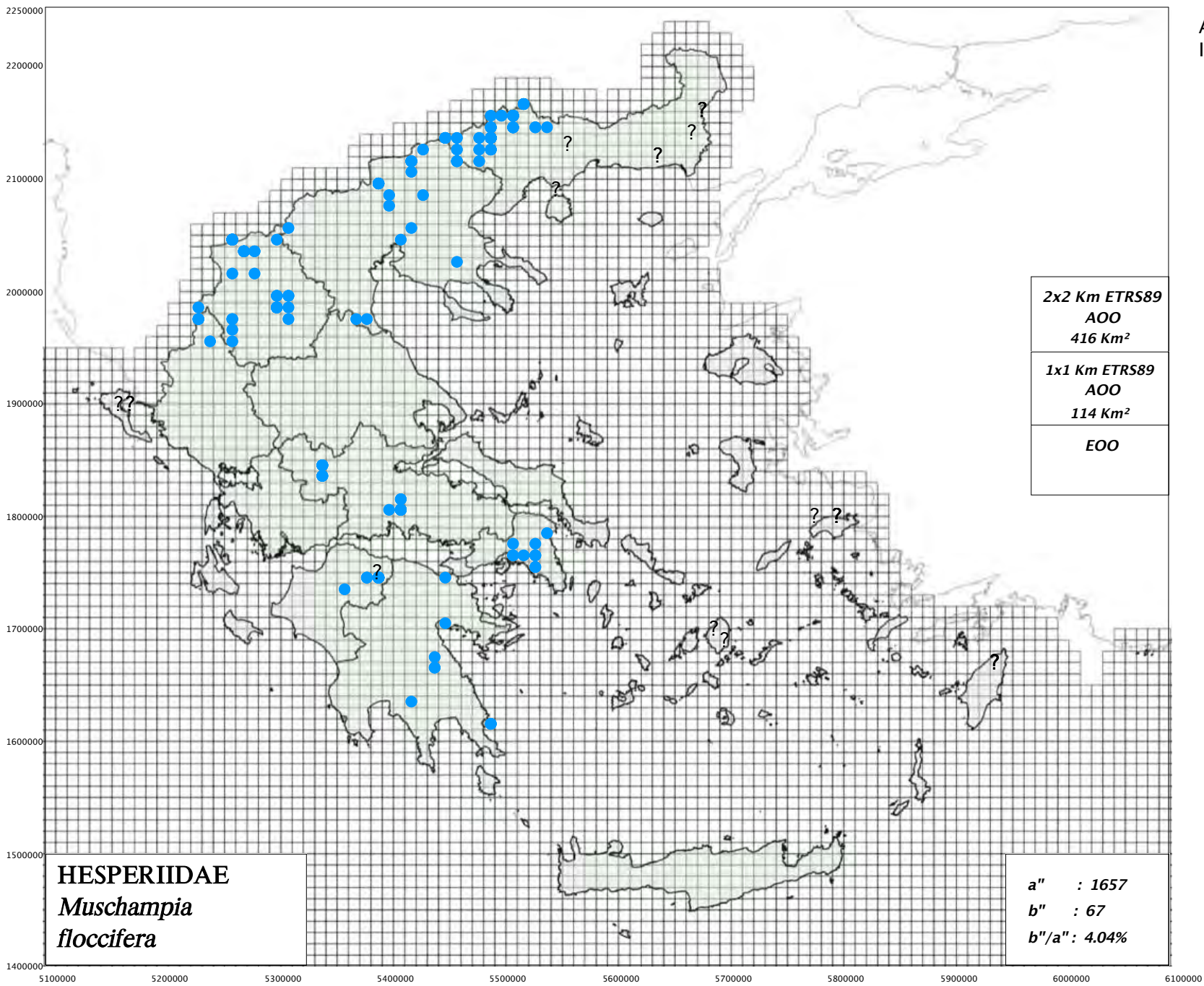
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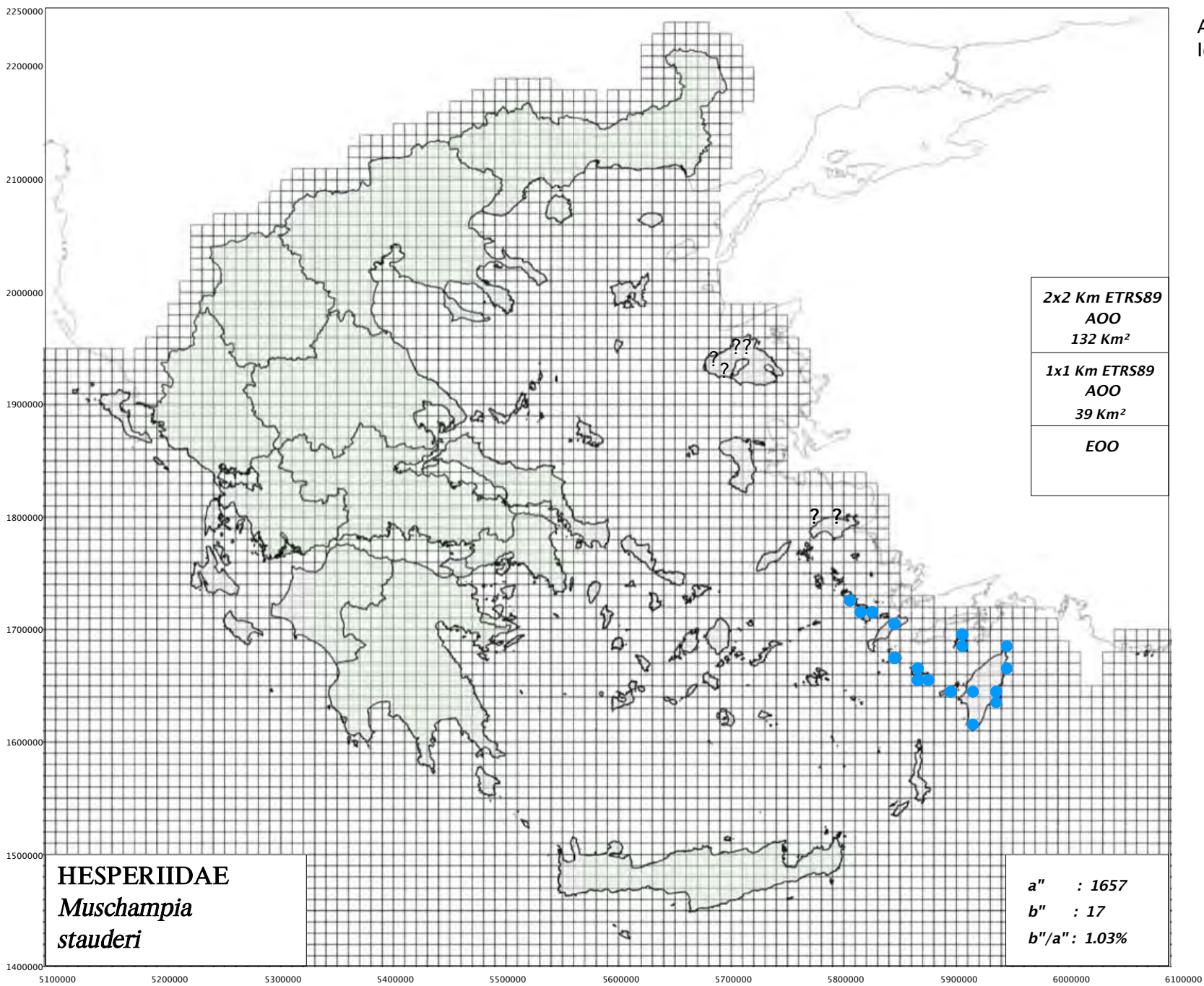


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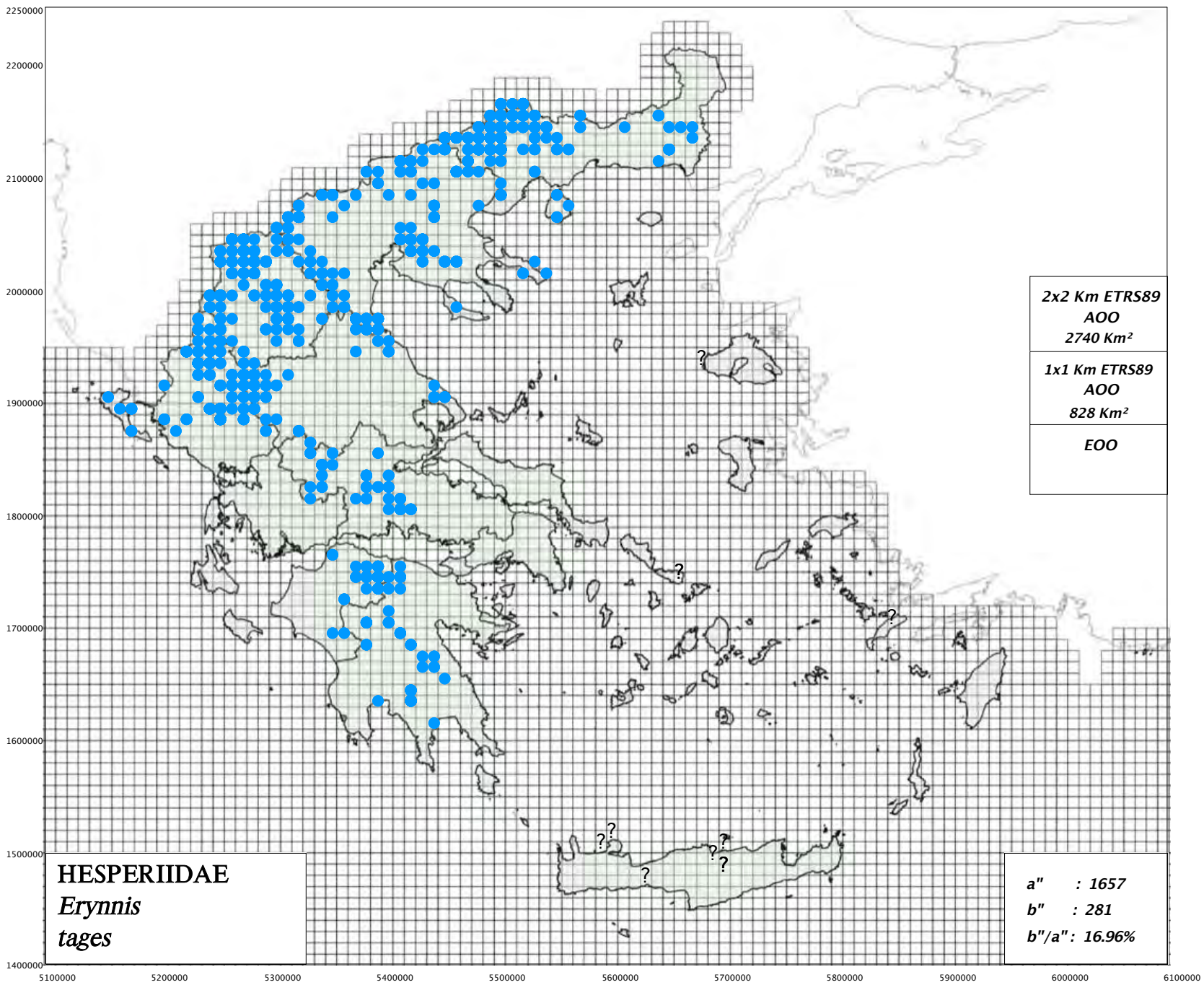
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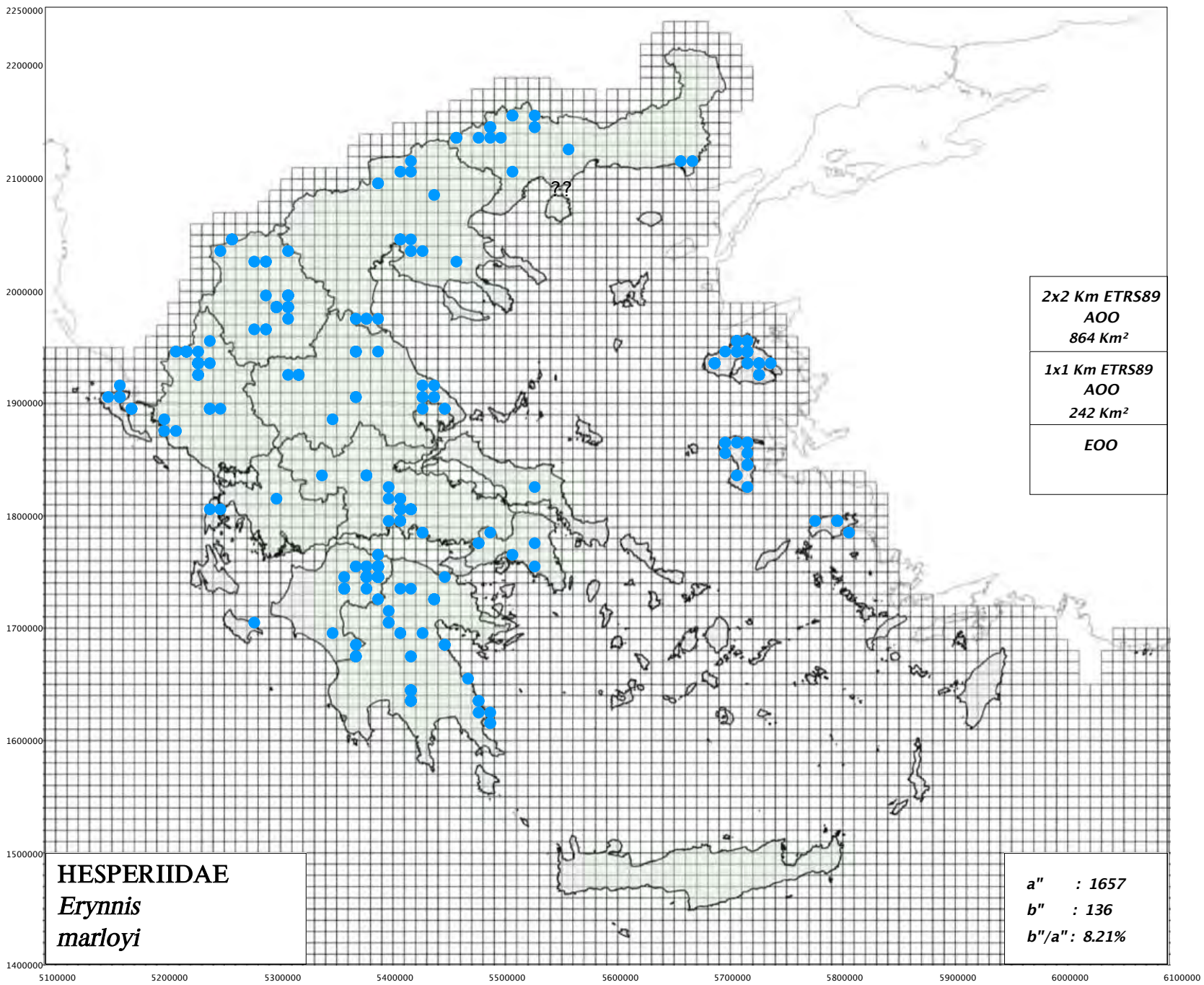
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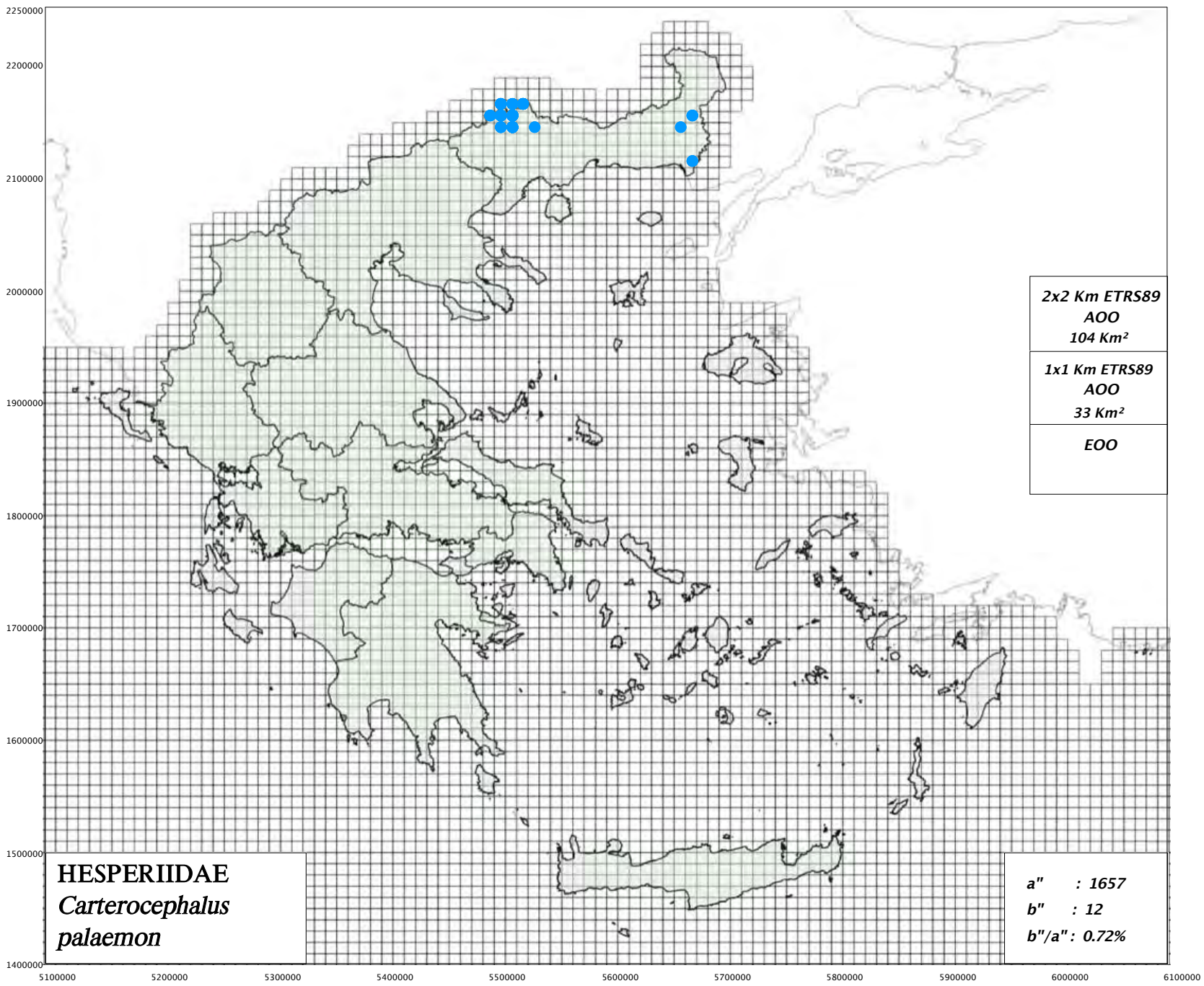
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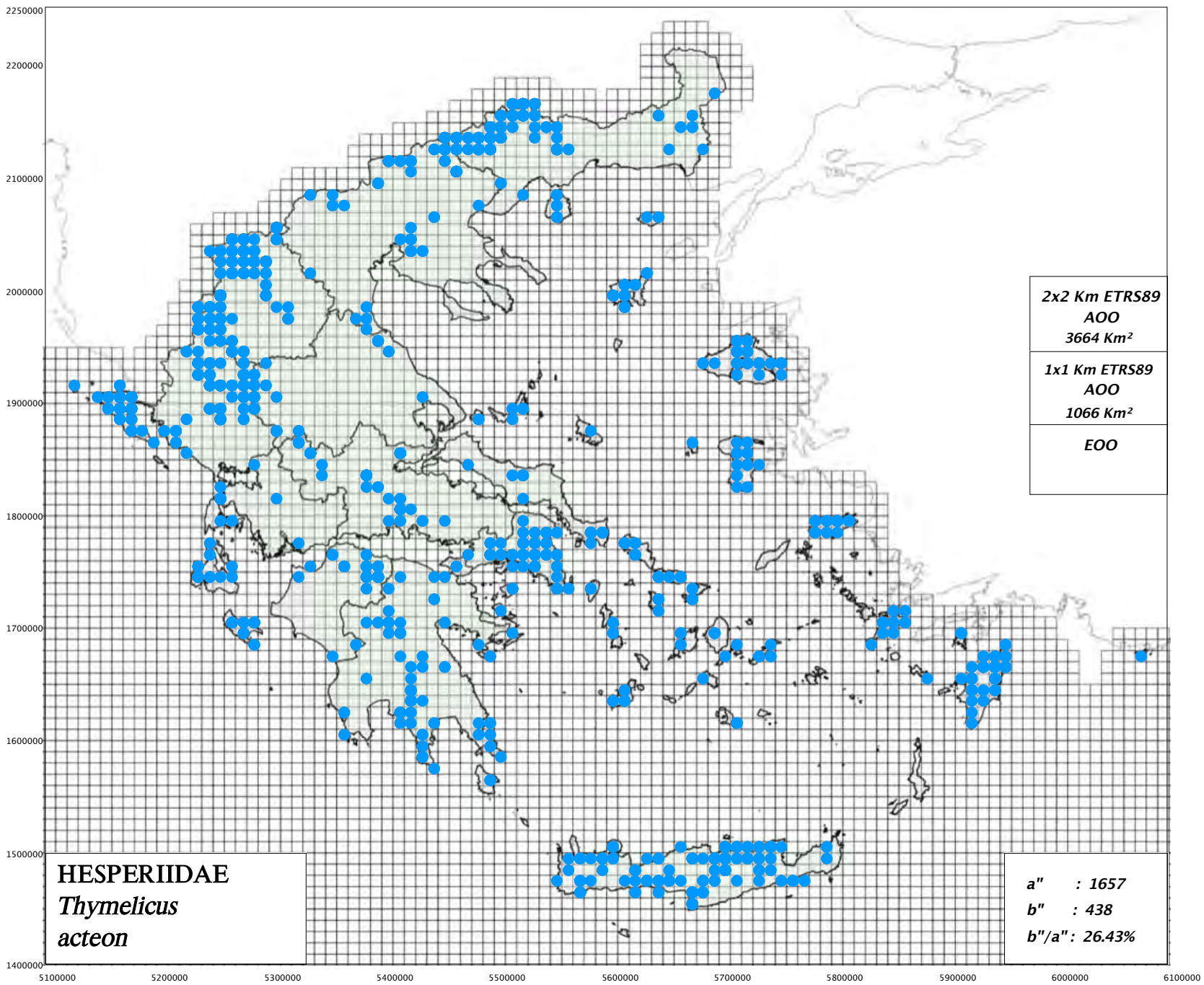






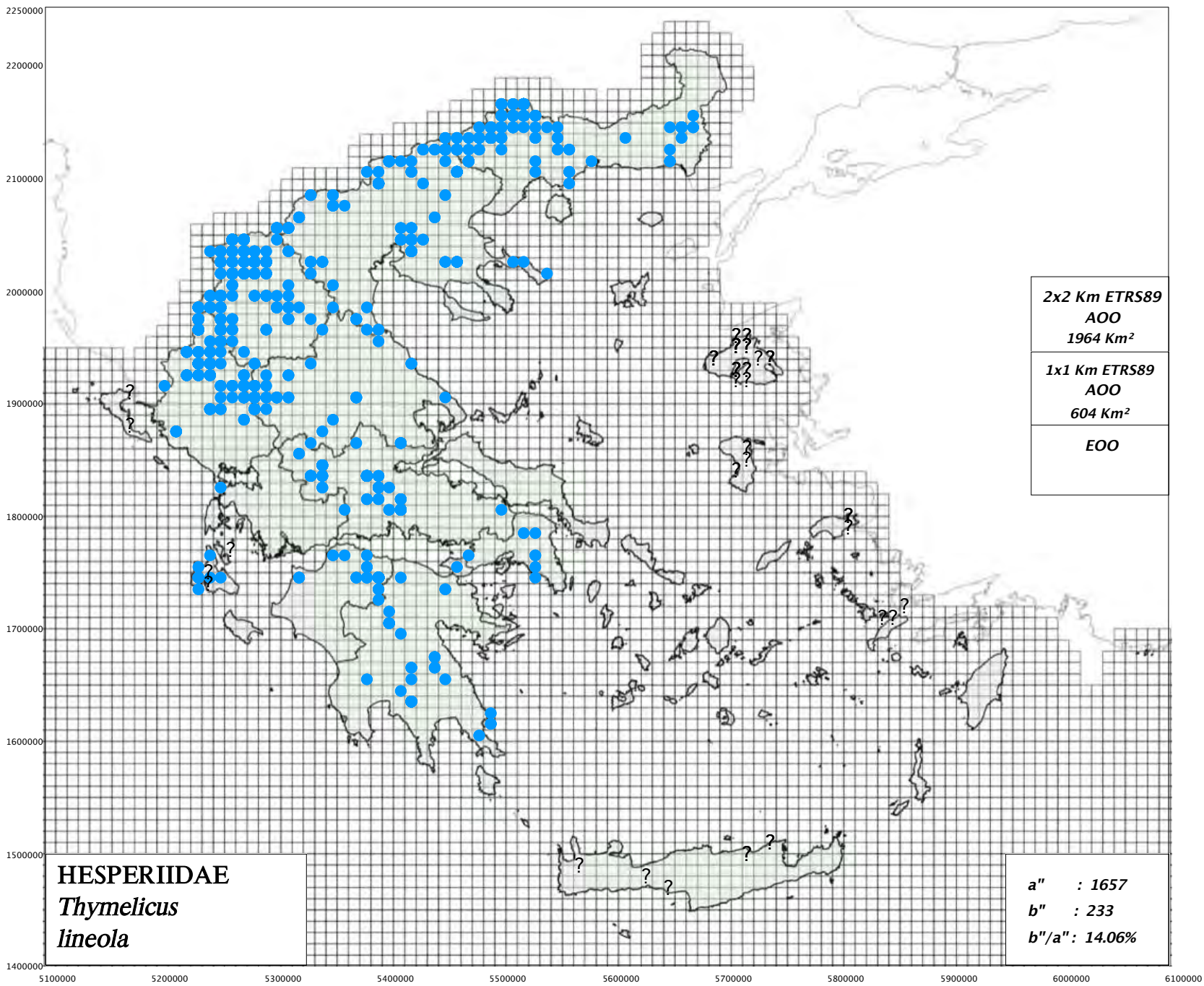




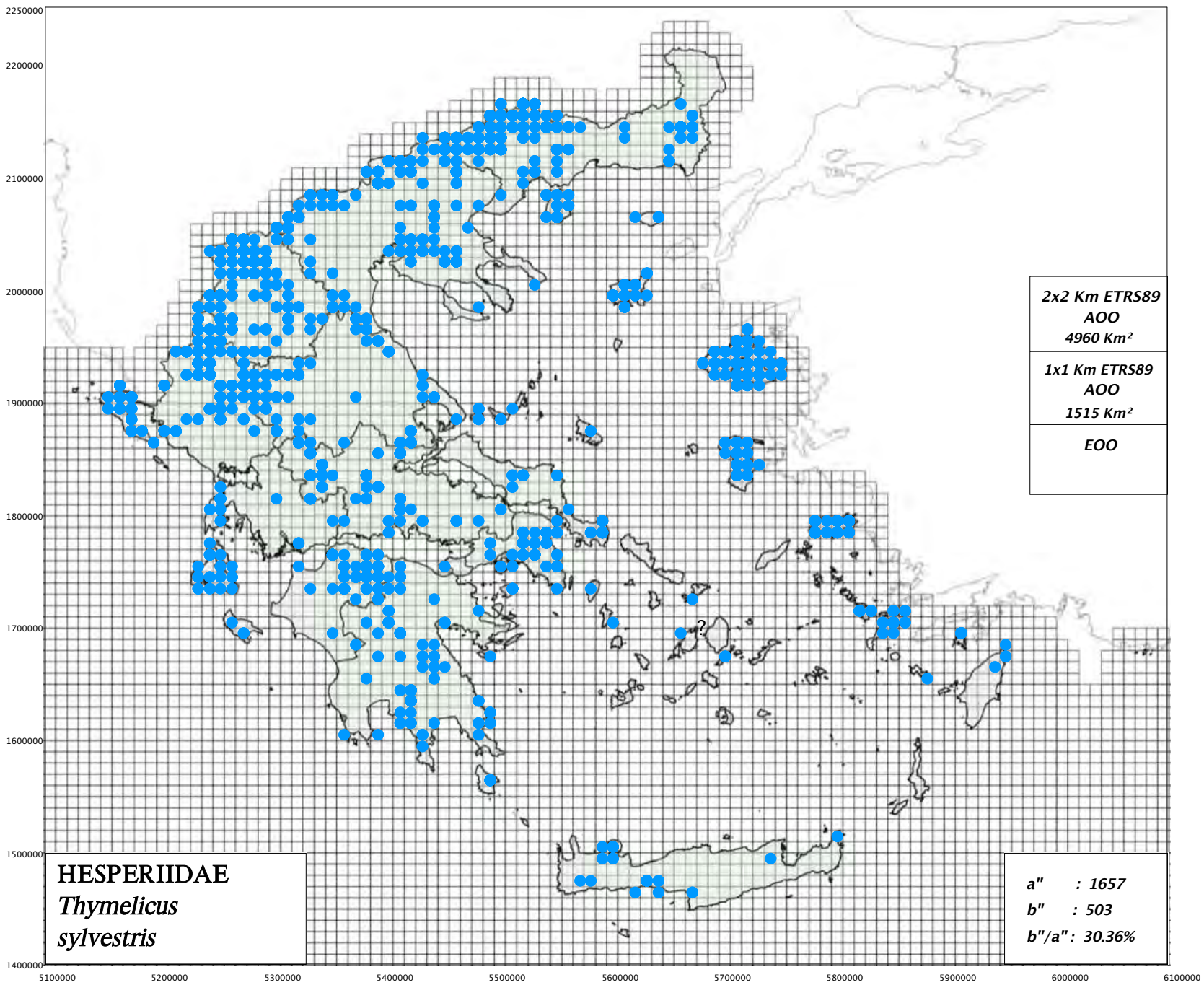


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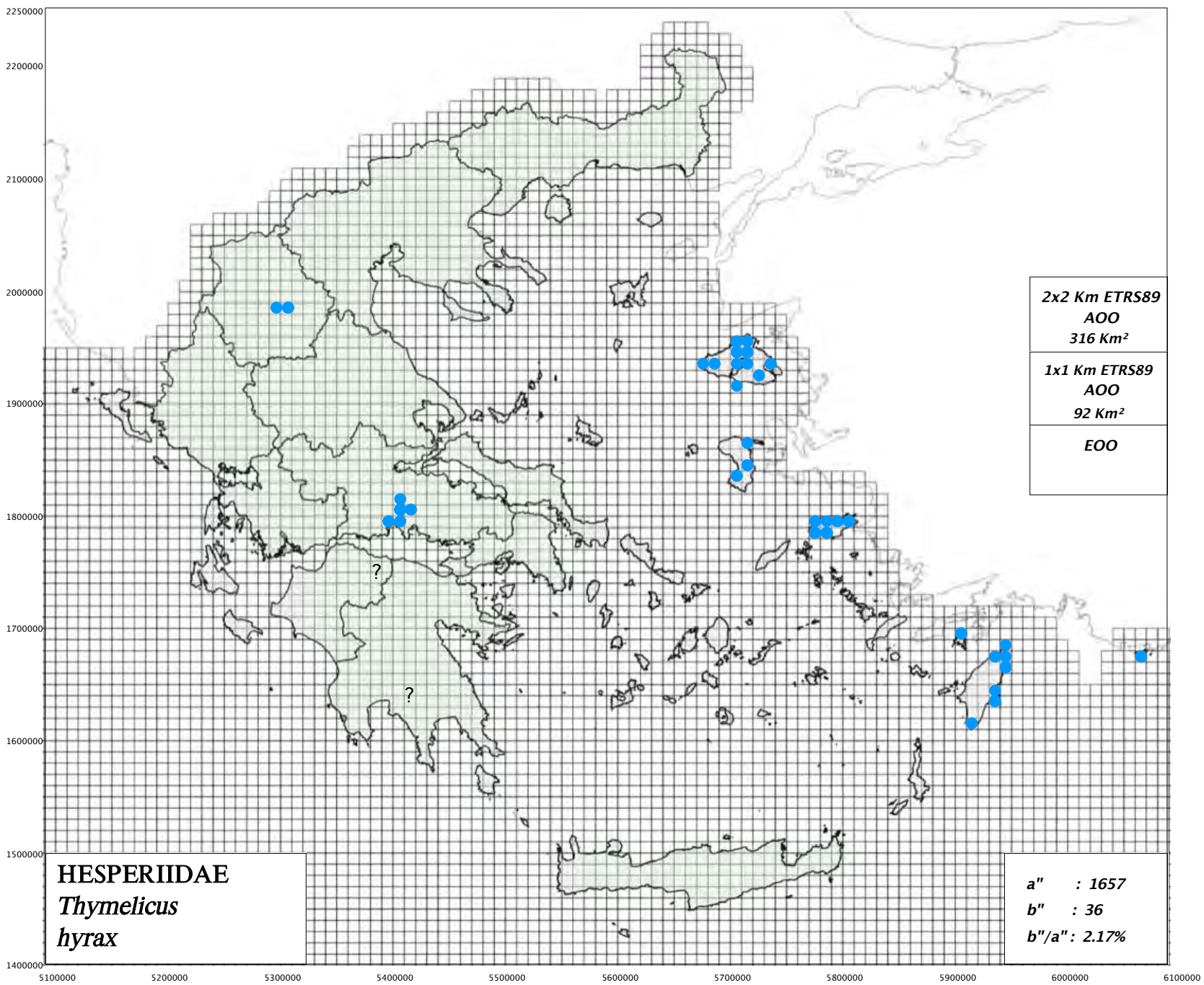


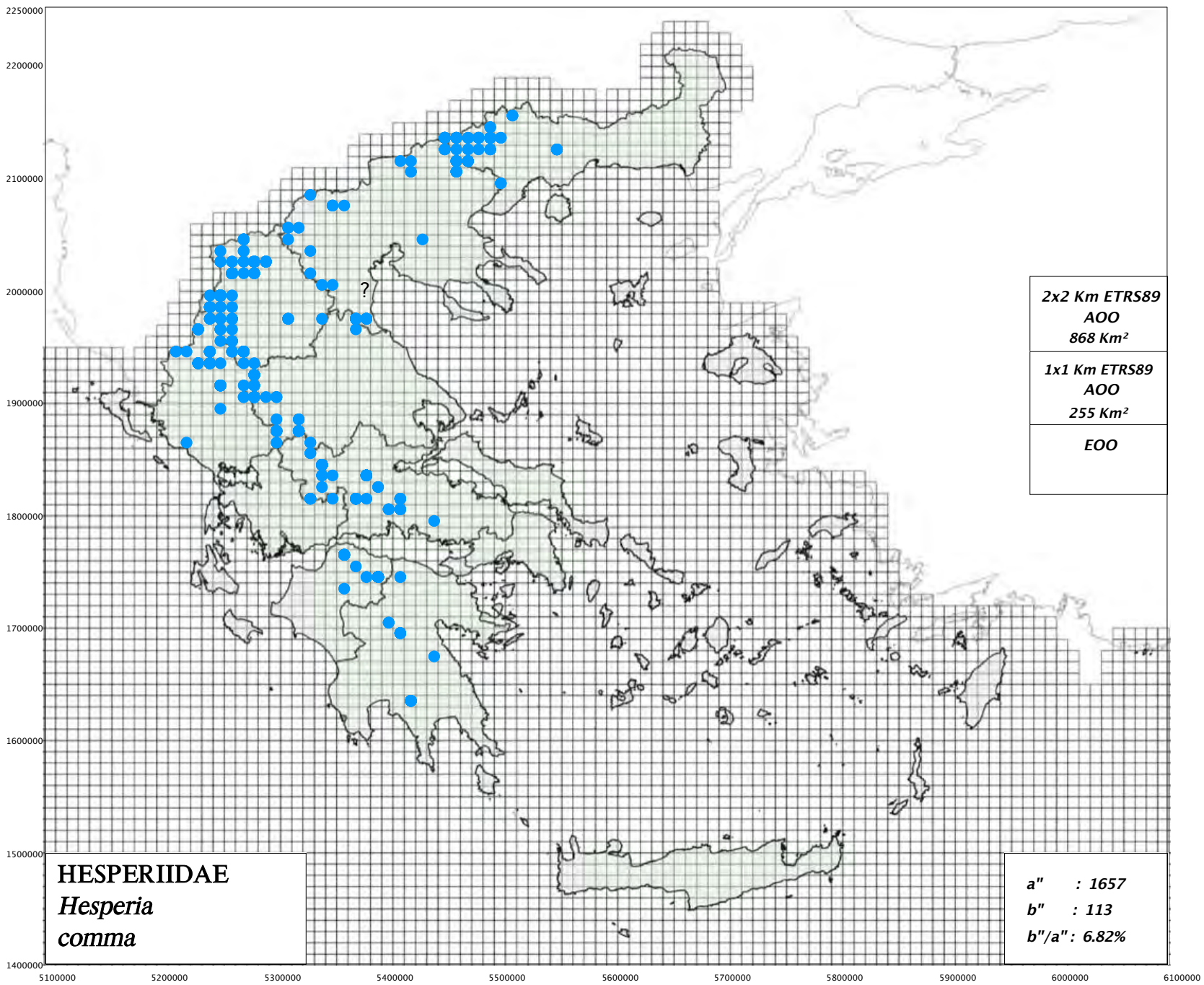
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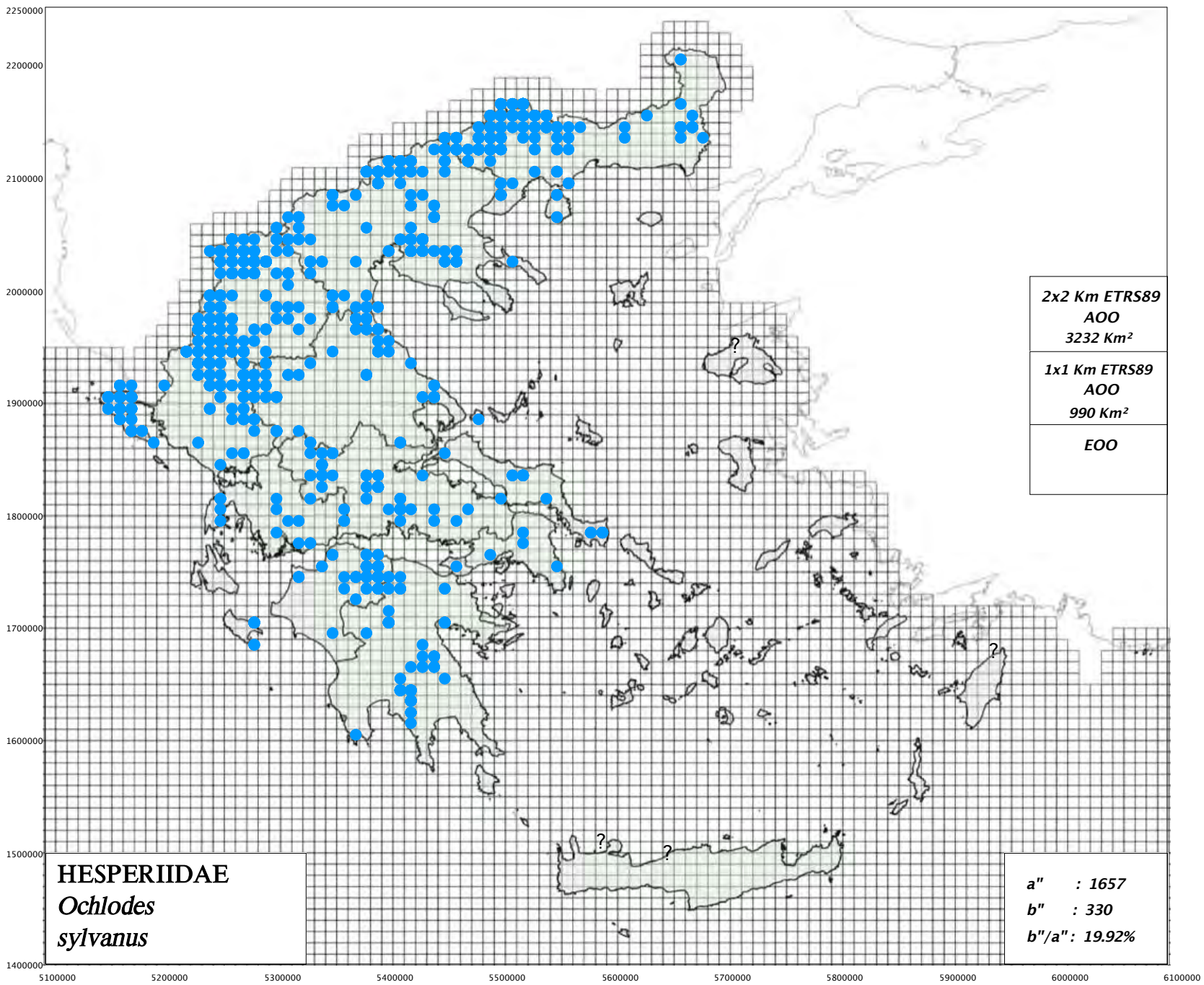
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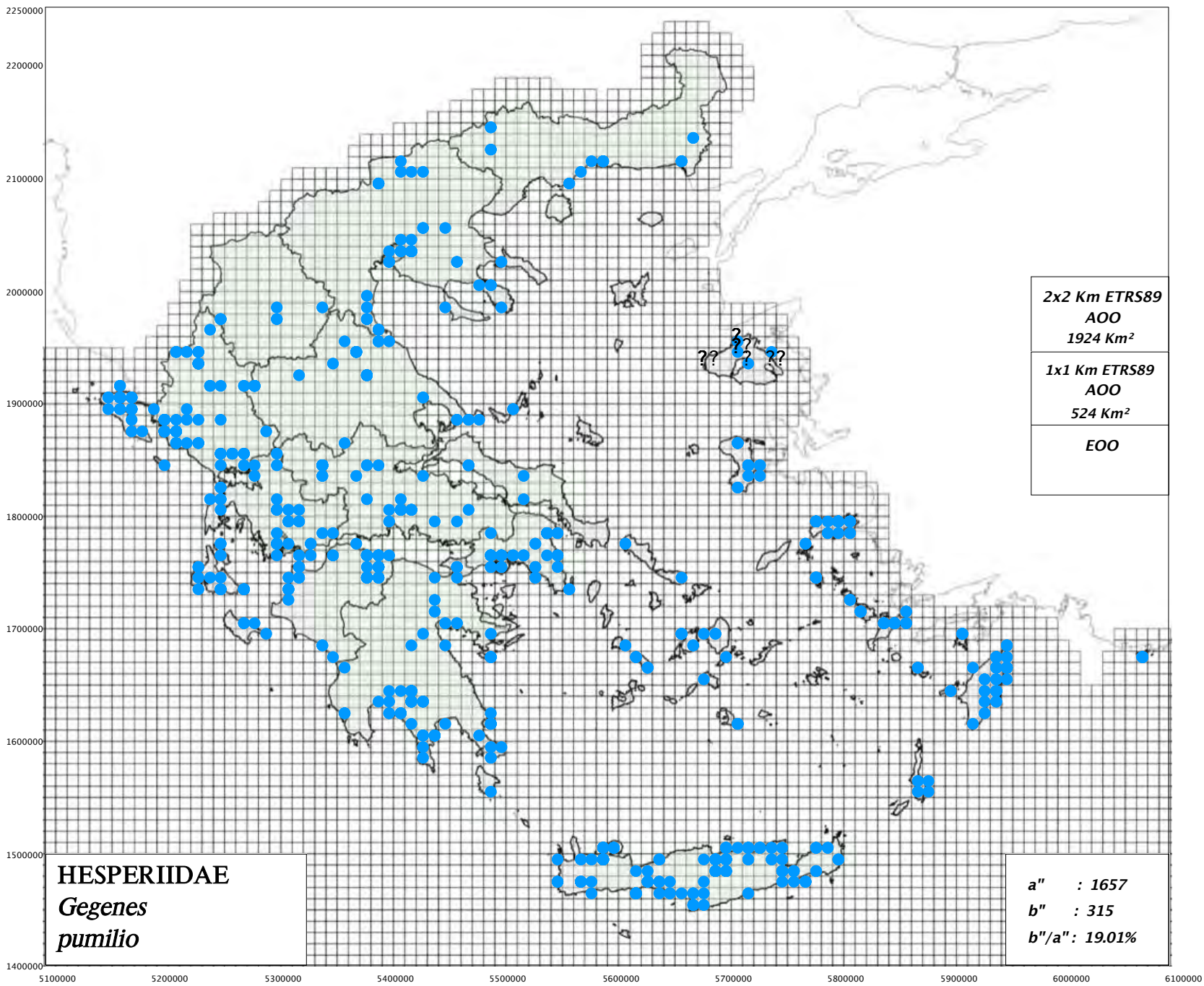






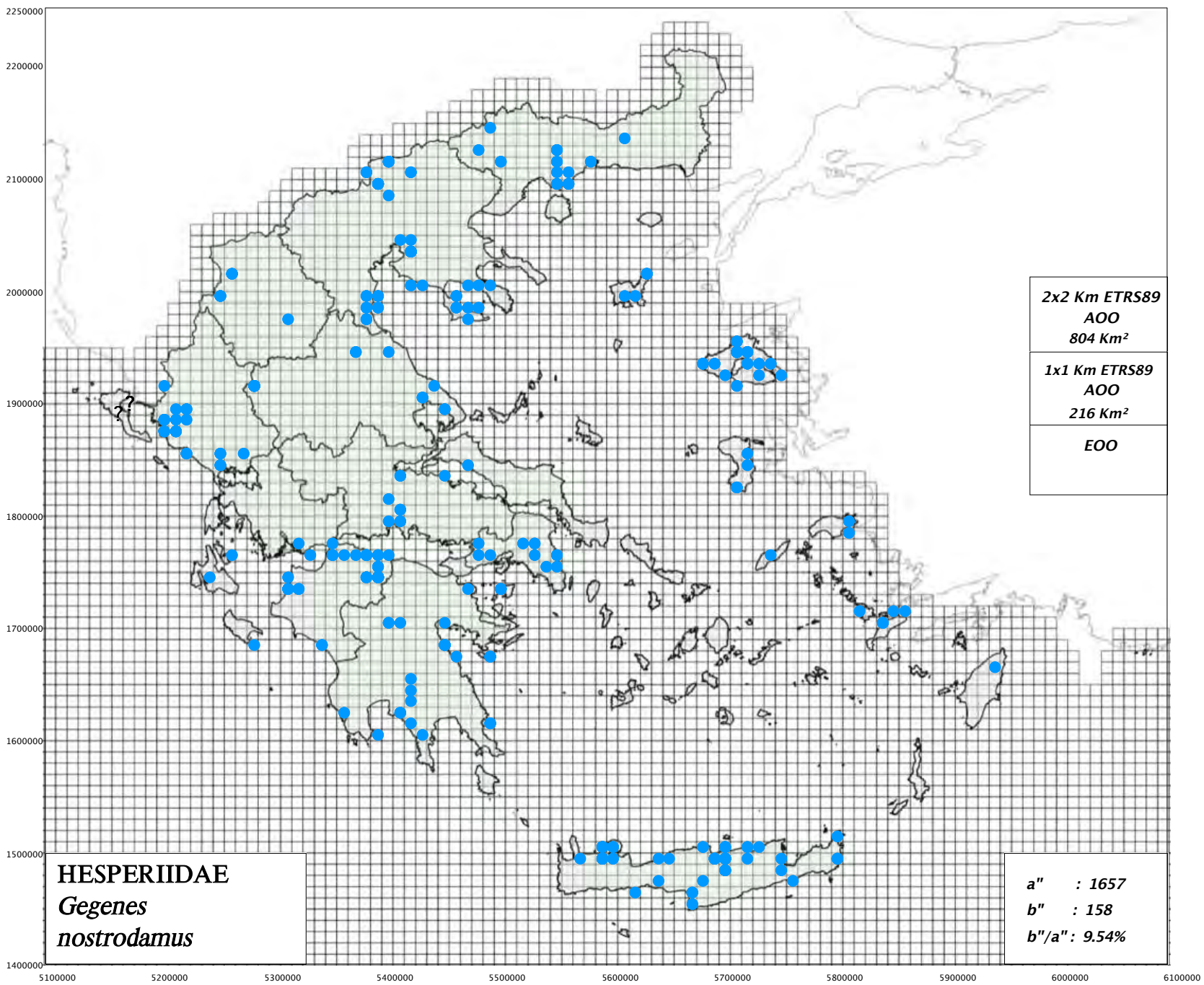






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