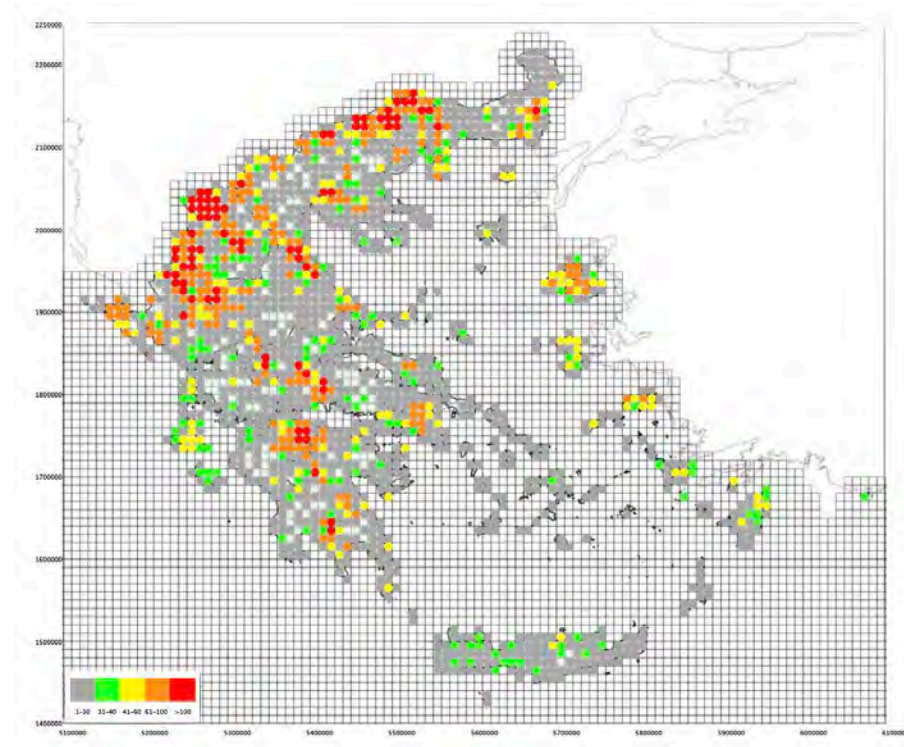


ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

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



THE BUTTERFLIES OF GREECE

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

by Lazaros N. Pamperis

2022

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 1614 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται (στους Χάρτες 3. 3") η ΑΟΟ (Area Of Occurance 1X1km) σε Km².

Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 437283 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2021 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2022) αλλά κυρίως στις δημοσιευμένες εργασίες σε εντομολογικά περιοδικά και στην αποστολή (μετά την δεύτερη έκδοση του βιβλίου) σχολίων και καταγραφών για τις πεταλούδες της Ελλάδας από πολλούς, από την Ελλάδα και το εξωτερικό, των οποίων τα ονόματα αναφέρονται παρακάτω. Σε όσους προσέφεραν τα σχόλια και όσους εμπιστεύθηκαν τις καταγραφές των, αφιερώνεται το παρόν μαζί με την ευγνωμοσύνη μου. Επισημαίνεται η ανάρτηση πολλών φωτογραφιών και καταγραφών σε ιστοτόπους (μερικές διευθύνσεις των οποίων αναφέρονται παρακάτω) και ιδιαίτερα στην ομάδα του Facebook για τις πεταλούδες της Ελλάδας και της Κύπρου (Butterflies & Moths of Greece & Cyprus με 3887 μέλη την 7 XII 2021) στο <http://www.facebook.com/groups/420659294633829/> .

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

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

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

Λάρισα 1 Ιανουαρίου 2022

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 437283 records for the butterflies of Greece (till 31 XII 2021) for the 1614 investigated localities 10X10 km (compare to 265134 records, in 2008). For all species AOO (Area Of Occupancy 1X1km) is noted on Maps 3.3" in Km².

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

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

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

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

For 165 new photographs, 6 free applications and more details see in URL: <https://www.pamperis.gr> in the 6 free applications in https://www.pamperis.gr/btf_site/ and in <https://www.pamperis.gr/recognition/index.html> for automatic recognition of butterflies.

Larissa 1 January 2022

Lazaros N. Pamperis

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

και and

ΠΡΟΣΩΠΙΚΕΣ ΕΠΙΚΟΙΝΩΝΕΙΕΣ PERSONAL COMMUNICATIONS

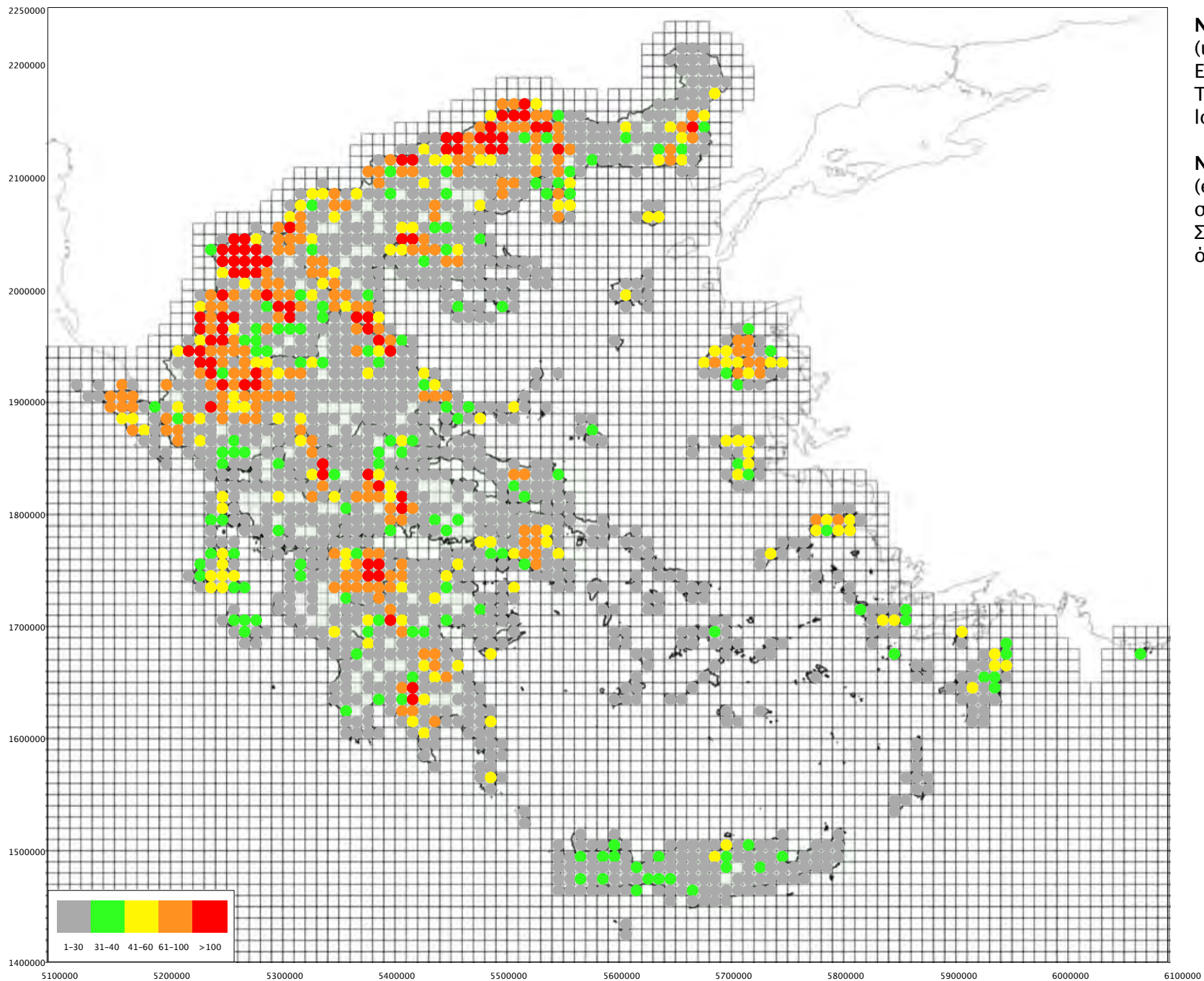
ΑΓΑ ΑΝΤΩΝΙΑ
ΑΓΓΛΟΠΟΥΛΟΣ ΒΑΣΙΛΕΙΟΣ
ΑΓΡΑΦΙΩΤΗΣ ΔΗΜΗΤΡΙΟΣ
ΑΛΕΞΙΟΥ ΣΩΤΗΡΗΣ
ΑΝΑΣΤΑΣΙΟΥ ΧΡΗΣΤΟΣ
ΑΝΔΡΙΟΠΟΥΛΟΣ ΠΑΥΛΟΣ
ΑΠΕΡΓΗ ΣΟΦΙΑ
ΑΦΟΡΔΑΚΟΣ ΓΙΩΡΓΟΣ
ΒΑΡΒΑΡΗΓΟΣ ΓΕΩΡΓΙΟΣ
ΒΑΣΙΛΕΙΑΔΗΣ ΔΙΟΝΥΣΗΣ
ΒΑΣΙΛΕΙΑΔΗΣ ΣΑΒΒΑΣ
ΒΟΥΤΣΙΝΑ ΑΓΓΕΛΙΚΗ
ΓΑΒΑΛΑΣ ΓΙΑΝΝΗΣ
ΓΑΒΑΛΑΣ ΝΙΚΟΣ
ΓΑΛΑΝΗΣ ΕΛΕΥΘΕΡΙΟΣ
ΓΑΛΑΝΟΣ ΧΡΗΣΤΟΣ
ΓΕΩΡΓΑΣ ΣΤΕΦΑΝΟΣ
ΓΙΑΝΑΚΑ ΔΗΜΗΤΡΑ
ΓΙΑΝΝΑΚΟΠΟΥΛΟΥ ΣΩΤΗΡΙΑ
ΓΚΙΟΚΑΣ ΣΤΕΦΑΝΟΣ
ΓΟΥΣΙΑΣ ΒΑΣΙΛΗΣ
ΓΡΗΓΟΡΙΑΔΟΥ ΕΛΠΙΔΑ
ΔΑΛΑΓΙΩΡΓΟΣ ΠΑΝΑΓΙΩΤΗΣ
ΔΑΡΜΗΣ ΓΙΩΡΓΟΣ
ΔΗΜΑΔΗΣ ΧΡΗΣΤΟΣ
ΔΗΜΑΚΗ ΜΑΡΙΑ
ΔΗΜΟΥΛΕΑΣ ΤΖΑΝΕΤΟΣ
ΔΟΜΟΚΟΣ ΜΙΧΑΛΗΣ
ΔΡΑΖΙΝΟΣ ΔΗΜΗΤΡΙΟΣ
ΔΡΟΛΑΠΑ ΓΙΟΥΛΑ
ΕΛΑΦΡΟΠΟΥΛΟΣ ΑΘΑΝΑΣΙΟΣ
ΖΑΧΑΡΑΚΗΣ ΙΩΑΝΝΗΣ
ΖΩΓΡΑΦΟΥ ΚΩΝΣΤΑΝΤΙΝΑ
ΘΑΝΟΠΟΥΛΟΣ ΡΟΙΚΟΣ
ΘΕΟΔΩΡΟΥ ΙΡΙΣ
ΙΩΑΝΝΙΔΗΣ ΒΑΓΓΕΛΗΣ
ΚΑΖΙΛΑ ΕΛΕΑΝΑ
ΚΑΛΤΣΑΣ ΔΗΜΗΤΡΗΣ
ΚΑΛΤΣΑΣ ΔΗΜΗΤΡΗΣ
ΚΑΜΠΟΥΡΟΠΟΥΛΟΣ ΕΡΑΣΤΟΣ
ΚΑΝΕΛΙΔΟΥ ANNA
ΚΑΡΑΓΙΑΝΝΗ ΟΛΓΑ
ΚΑΡΑΜΠΙΛΑΣ ΛΕΥΤΕΡΗΣ
ΚΑΣΣΑΒΕΤΗΣ ΣΤΕΡΓΙΟΣ
ΚΑΣΣΙΟΣ ΚΩΣΤΑΣ
ΚΑΤΗΣ ΑΛΕΞΑΝΔΡΟΣ
ΚΑΤΣΑΟΥΝΗΣ ΑΠΟΣΤΟΛΟΣ
ΚΑΦΚΑΛΕΤΖΟΥ ΝΤΙΕΖ ΑΡΤΕΜΙΣ
ΚΑΨΟΥΡΑΣ ΓΙΩΡΓΟΣ
ΚΛΕΙΔΑΡΑΣ ΧΡΗΣΤΟΣ
ΚΛΟΓΙΑΝΝΗΣ ΣΤΑΜΑΤΗΣ
ΚΟΓΙΑΣ ΝΤΙΝΟΣ
ΚΟΛΛΙΑΣ ΤΑΣΟΣ
ΚΟΛΟΒΟΥ ΜΥΡΤΩ

ΚΟΜΗΝΑ ΣΤΕΛΛΑ
ΚΟΜΗΝΟΣ ΘΕΟΔΩΡΟΣ
ΚΟΝΤΑΚΟΣ ΔΗΜΗΤΡΗΣ
ΚΟΡΑΚΗΣ ΑΛΕΞΑΝΔΡΟΣ
ΚΟΥΡΤΗΣ ΧΑΡΙΛΑΟΣ
ΚΟΥΤΣΗΣ ΓΙΑΝΝΗΣ
ΚΟΥΤΣΟΓΙΑΝΝΟΠΟΥΛΟΣ ΔΑΥΙΔ
ΚΡΙΚΕΛΗ ΕΛΕΥΘΕΡΙΑ
ΚΥΡΙΑΖΗΣ ΝΙΚΟΛΑΟΣ
ΛΑΔΟΝΙΚΟΛΑ ΜΑΡΙΑ
ΛΑΦΡΑΝΧΗΣ ΑΝΤΩΝΗΣ
ΛΑΧΟΥΒΑΡΗΣ ΛΕΥΤΕΡΗΣ
ΛΕΒΑΔΙΩΤΗΣ ΧΕΝΟΦΩΝ
ΛΕΚΚΑ ΒΕΝΕΤΙΑ
ΛΕΚΚΑ ΡΟΥΛΑ
ΛΕΚΚΑΣ ΑΔΡΙΑΝΟΣ
ΛΕΚΚΑΣ ΒΑΣΙΛΗΣ
ΛΟΒΕΡΔΟΥ ΣΟΦΙΑ
ΛΥΤΡΑΣ ΤΑΣΟΣ
ΜΙΧΑΣ ΙΩΑΝΝΗΣ
ΜΑΒΗΣ ΑΛΕΞΑΝΔΡΟΣ
ΜΑΓΛΑΡΑΣ ΑΘΑΝΑΣΙΟΣ
ΜΑΖΑΡΑΚΗΣ ΑΝΤΩΝΗΣ
ΜΑΚΡΗΣ ΧΡΙΣΤΟΔΟΥΛΟΣ
ΜΑΜΑΝΗΣ ΘΕΟΔΟΣΗΣ
ΜΑΡΓΑΡΙΤΟΠΟΥΛΟΥ ΒΑΣΙΛΙΚΗ
ΜΑΡΟΥΛΗΣ ΧΡΗΣΤΟΣ
ΜΑΣΤΟΡΑΚΗΣ ΑΝΤΩΝΗΣ
ΜΑΥΡΑΓΑΝΗ ΒΑΣΙΛΕΙΑ
ΜΗΤΣΟΠΟΥΛΟΣ ΗΡΑΚΛΗΣ
ΜΗΤΣΟΠΟΥΛΟΥ ΙΟΛΗ
ΜΗΤΣΟΠΟΥΛΟΥ ΜΑΡΙΚΑ
ΜΙΝΑΧΕΙΛΗΣ ΚΩΣΤΑΣ
ΜΟΣΧΟΒΗΣ ΜΙΧΑΗΛ
ΜΠΑΣΓΙΟΥΡΑΚΗΣ ΘΕΟΦΙΛΟΣ
ΜΠΕΣΙΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ
ΜΠΙΣΑ ΧΑΡΙΚΛΕΙΑ
ΜΠΟΡΜΠΟΥΔΑΚΗ ΚΑΛΛΙΟΠΗ
ΝΟΥΤΣΙΑ ΝΙΚΗ
ΝΟΥΤΣΙΑΣ ΣΤΕΦΑΝΟΣ
ΝΑΣΟΠΟΥΛΟΥ ΘΕΜΙΣ
ΝΕΖΗΣ ΝΙΚΟΣ
ΝΙΚΟΜΑΝΗ ΑΛΕΞΙΑ
ΞΑΝΘΑΚΗΣ ΜΙΧΑΗΛ
ΞΕΝΟΣ ΒΑΓΓΕΛΗΣ
ΞΥΔΗ ΔΗΜΗΤΡΑ
ΠΑΛΑΙΟΣ ΠΑΝΟΣ
ΠΑΝΟΥ ΕΛΕΝΗ
ΠΑΝΤΕΛΟΠΟΥΛΟΣ ΚΩΣΤΑΣ
ΠΑΠΑΔΗΜΗΤΡΙΟΥ ΕΥΑΓΓΕΛΟΣ
ΠΑΠΑΔΡΑΓΚΑ ΕΥΑΓΓΕΛΙΑ
ΠΑΠΑΝΔΡΟΠΟΥΛΟΣ Δ
ΠΑΠΑΠΑΥΛΟΥ ΚΕΛΛΗ
ΠΑΡΑΣΚΕΥΟΠΟΥΛΟΣ ΛΕΒ

ΠΕΤΡΙΝΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ
ΠΟΥΓΑΔΑΚΗ ΚΡΥΣΤΑΛΛΕΝΙΑ
ΣΑΛΛΑΣ ΧΡΗΣΤΟΣ
ΣΑΛΕΠΗ ΚΩΝΣΤΑΝΤΙΝΑ
ΣΑΜΑΡΙΤΑΚΗΣ ΦΩΤΗΣ
ΣΙΑΓΚΟΥ ΙΩΑΝΝΑ
ΣΙΔΕΡΗ ΣΟΦΙΑ
ΣΚΟΥΦΑΚΗΣ ΒΑΓΓΕΛΗΣ
ΣΟΦΙΛΑ ΝΙΚΟΛΕΤΤΑ
ΣΠΑΝΟΣ ΑΛΕΞΗΣ
ΣΠΑΝΟΣ ΑΝΤΩΝΗΣ
ΣΠΥΡΑΤΟΣ ΓΕΡΑΣΙΜΟΣ
ΣΠΥΡΙΔΑΚΙΣ ΓΕΩΡΓΙΟΣ
ΣΤΑΜΕΛΛΟΥ ΑΥΡΑ
ΣΤΑΥΡΙΔΗΣ ΣΤΑΥΡΟΣ
ΣΤΡΑΧΙΝΗΣ ΗΛΙΑΣ
ΣΥΚΑΣ ΒΑΣΙΛΗΣ
ΤΑΜΒΑΚΑΣ ΚΩΣΤΑΣ
ΤΖΑΦΕΤΑΣ ΧΡΗΣΤΟΣ
ΤΖΑΧΕΙΛΑΣ ΔΗΜΗΤΡΙΟΣ
ΤΖΗΜΟΥΛΗΣ ΟΔΥΣΣΕΑΣ
ΤΖΩΡΤΖΑΚΑΚΗ ΟΛΓΑ
ΤΣΕΛΟΣ ΗΛΙΑΣ
ΤΣΙΡΙΔΗΣ ΑΛΕΞΑΝΔΡΟΣ
ΤΣΙΦΛΑΚΗΣ ΕΛΕΥΘΕΡΙΟΣ
ΤΣΟΥΚΛΕΙΔΗΣ ΓΕΩΡΓΙΟΣ
ΦΑΚΑΣ ΓΕΩΡΓΙΟΣ
ΦΑΤΣΕΑ ΣΤΑΥΡΟΥΛΑ
ΧΑΛΚΙΑΔΑΚΗΣ ΠΕΤΡΟΣ
ΧΑΛΚΙΑΣ ΒΑΣΙΛΗΣ
ΧΑΤΖΗΔΑΚΗΣ ΠΑΝΑΓΙΩΤΗΣ Ι
ΧΑΤΖΗΑΘΑΝΑΣΙΟΥ ΓΙΑΝΝΗΣ
ΧΡΙΣΤΟΠΟΥΛΟΥ ΜΑΙΡΗ
ΧΡΙΣΤΟΦΙΔΗΣ ΓΙΑΝΝΗΣ
ΨΑΛΛΙΔΑΣ ΒΑΣΙΛΗΣ
ALBRECHT MARTIN
BAUDRAZ MICHEL
BEAUSKOMP PETER C
BERRY MATT
BESHKOV 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
DARCEMONT 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
M.LGAARD MORTEN S
MAIER MARIO
MAJER JINDRICH
MANDZIEJEWICZ R.
MANN JOHN
MASON STEPHEN A
MAUNDER MIKE
MAZZEI PAOLO
MEREDITH GUY
MURPHEY CHRIS
NABBE MARINA
NORBERT ULMAN
OISTEIN BERG
PALMI PAOLO
PEACE NIGEL
PERKINS ROGER
PETTERSSON LARS
PLOWMAN FRANCIS

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



New Chart 4.15''

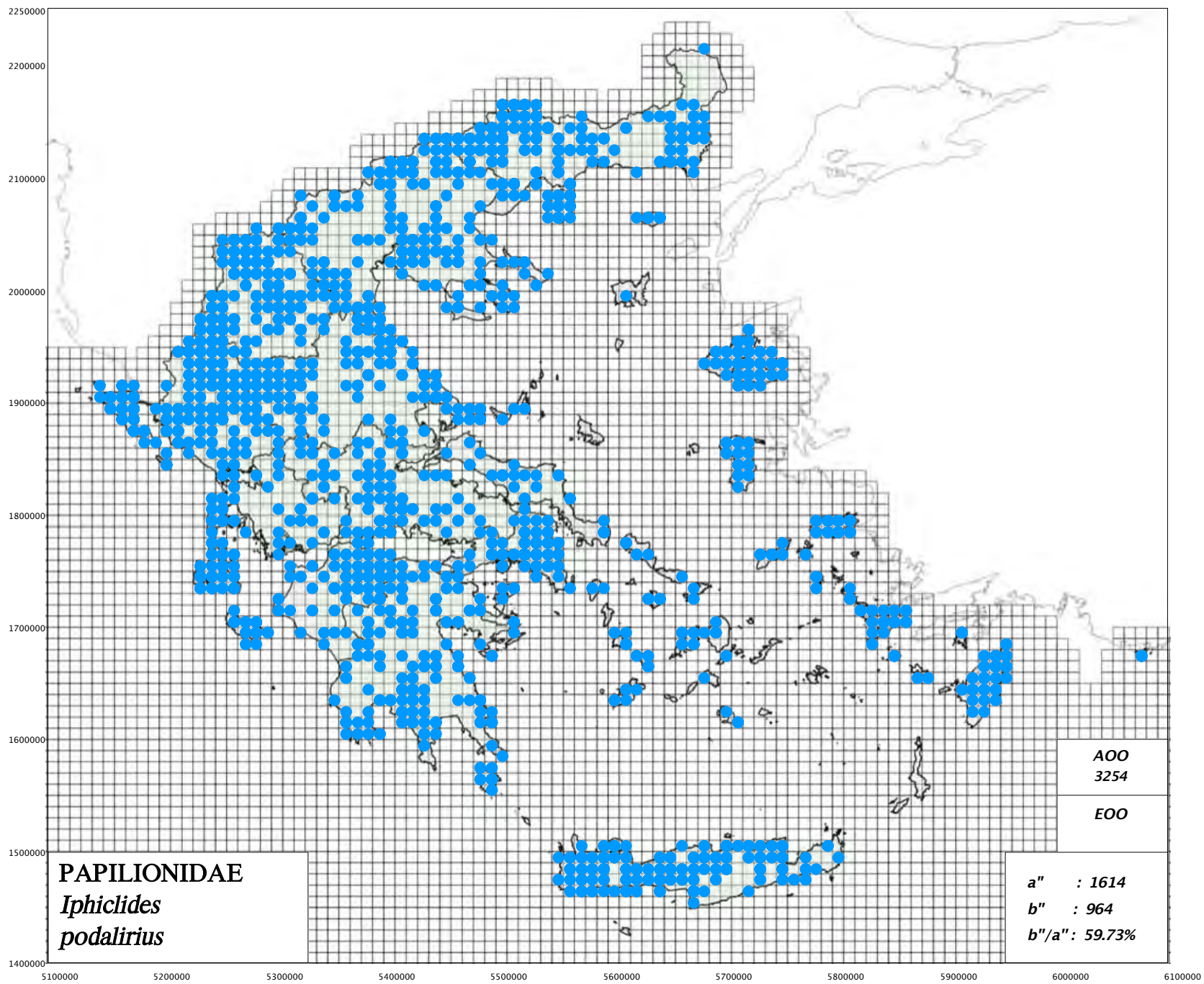
(update 2022 version in ETRS89)

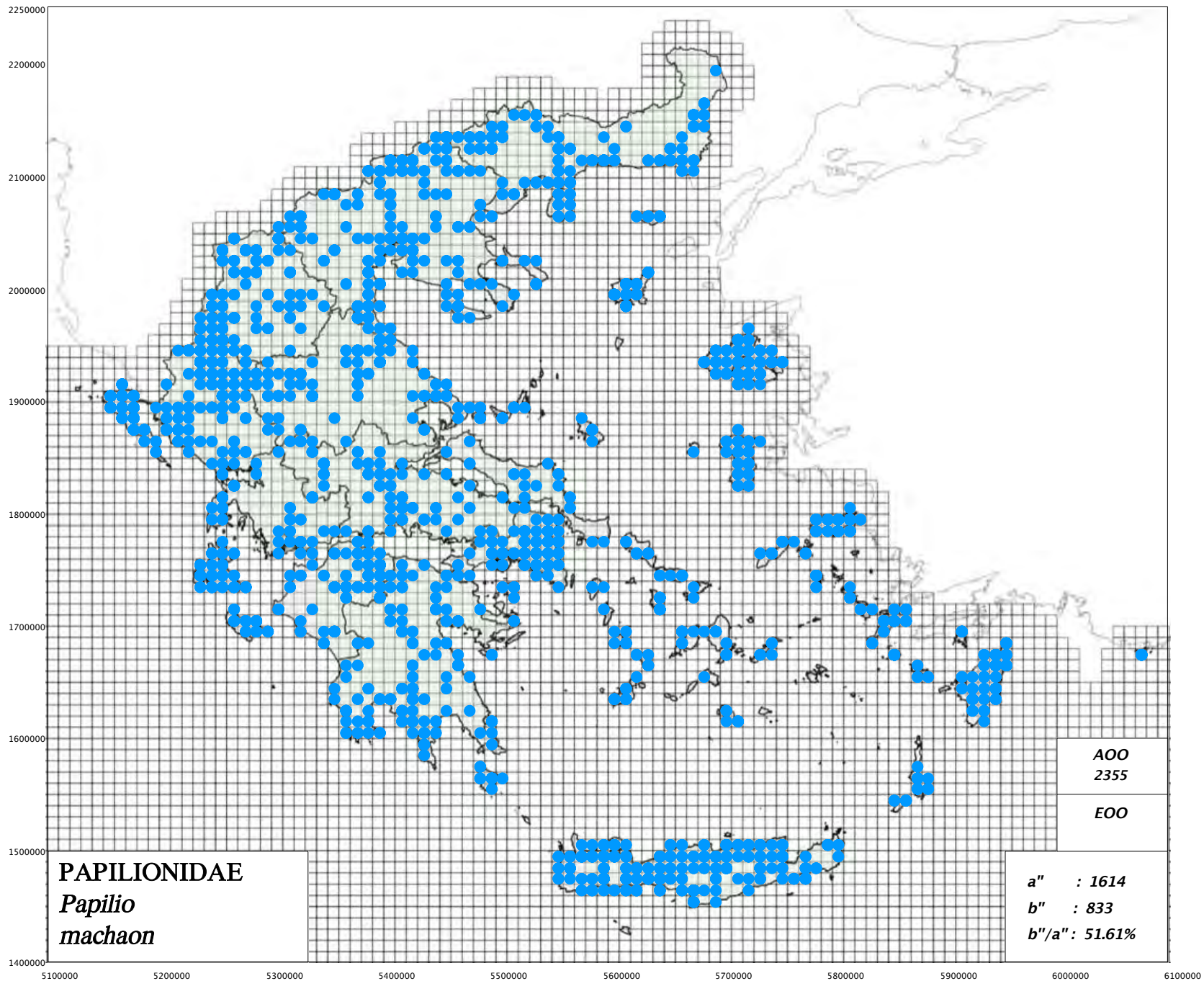
Total number of species for all 1614 localities 10X10 km

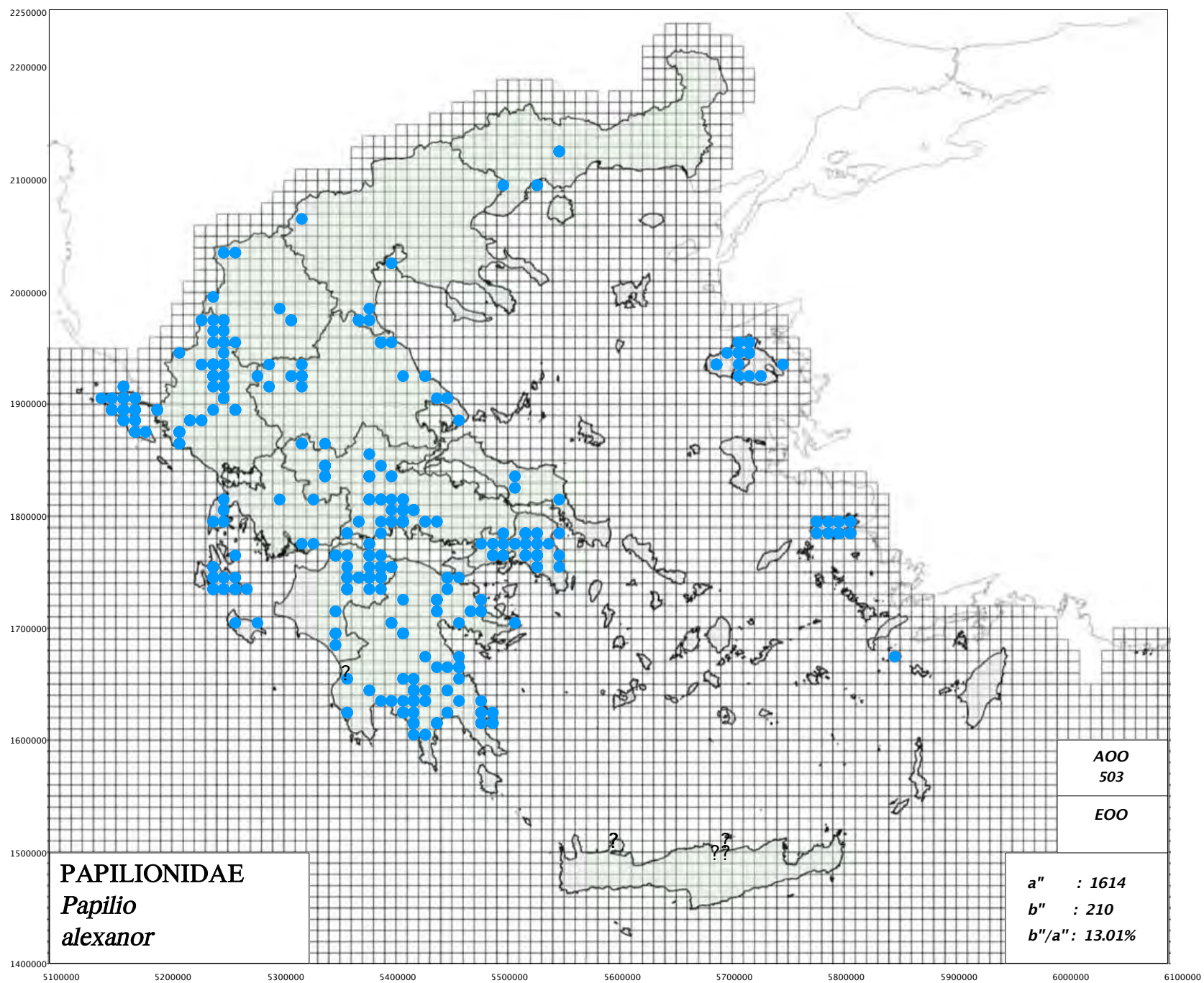
Νέος Χάρτης 4.15''

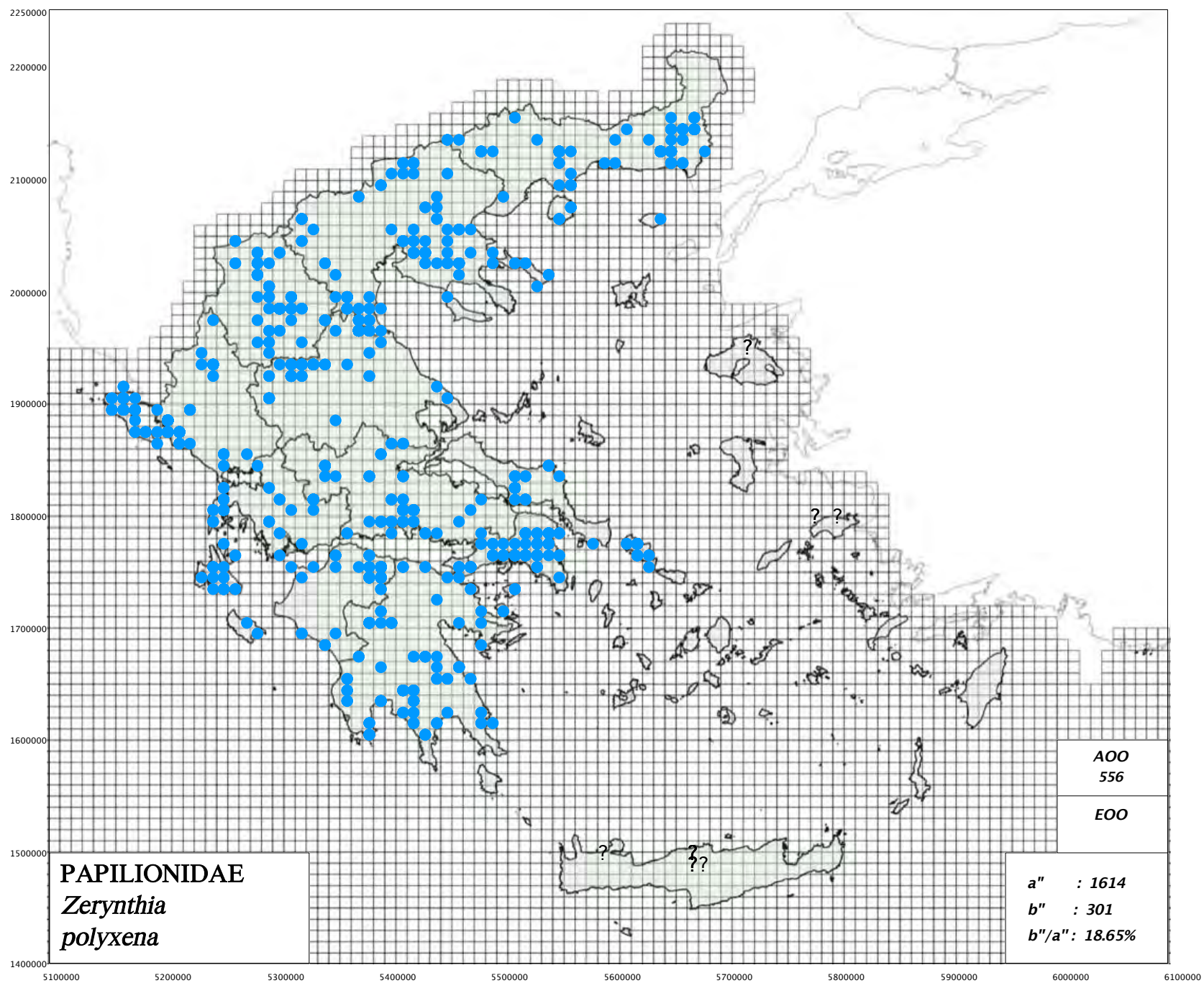
(επικαιροποίηση 2022 με συντεταγμένες ETRS89)

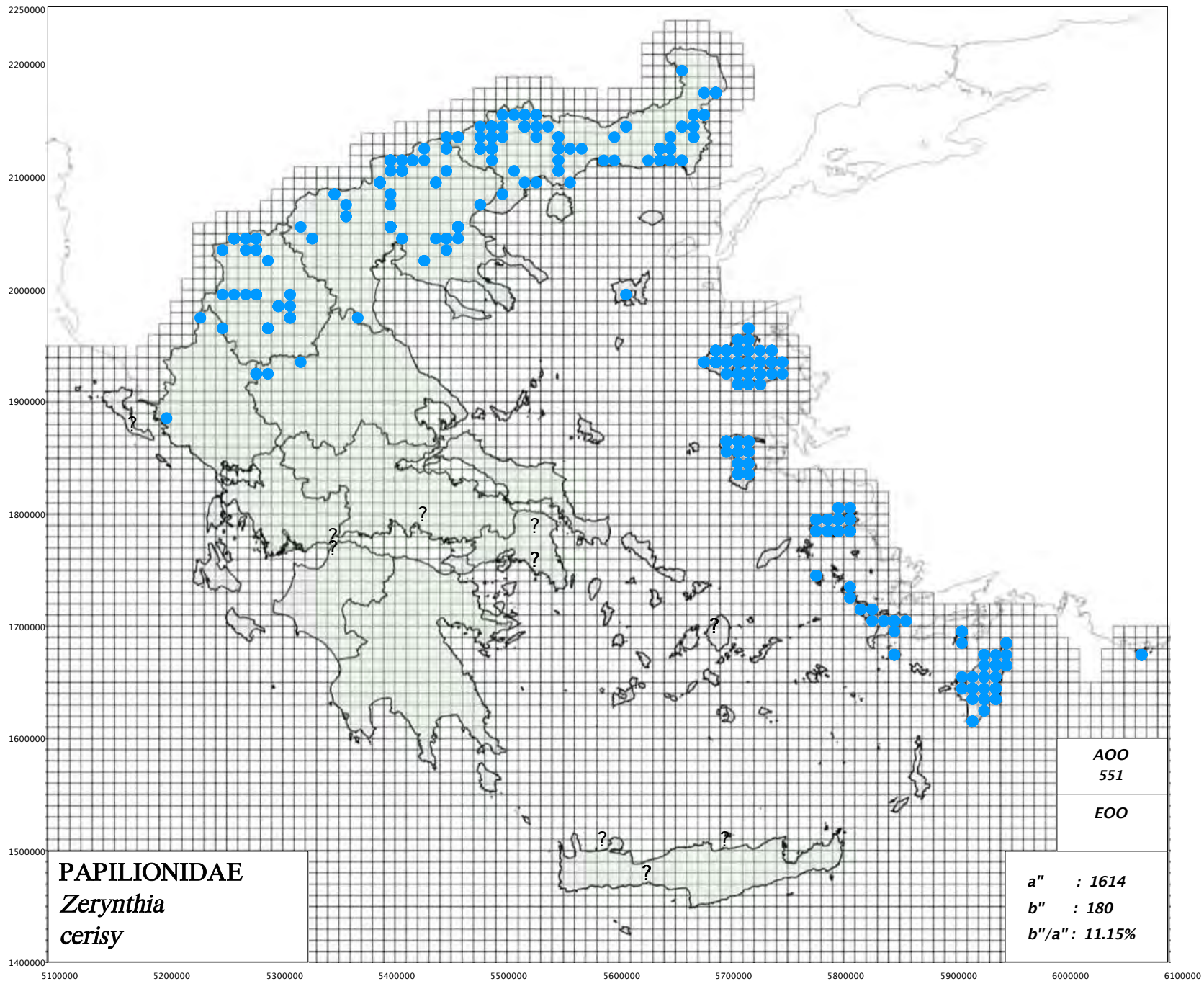
Συνολικός αριθμός των ειδών για όλες τις 1614 τοποθεσίες 10X10 km



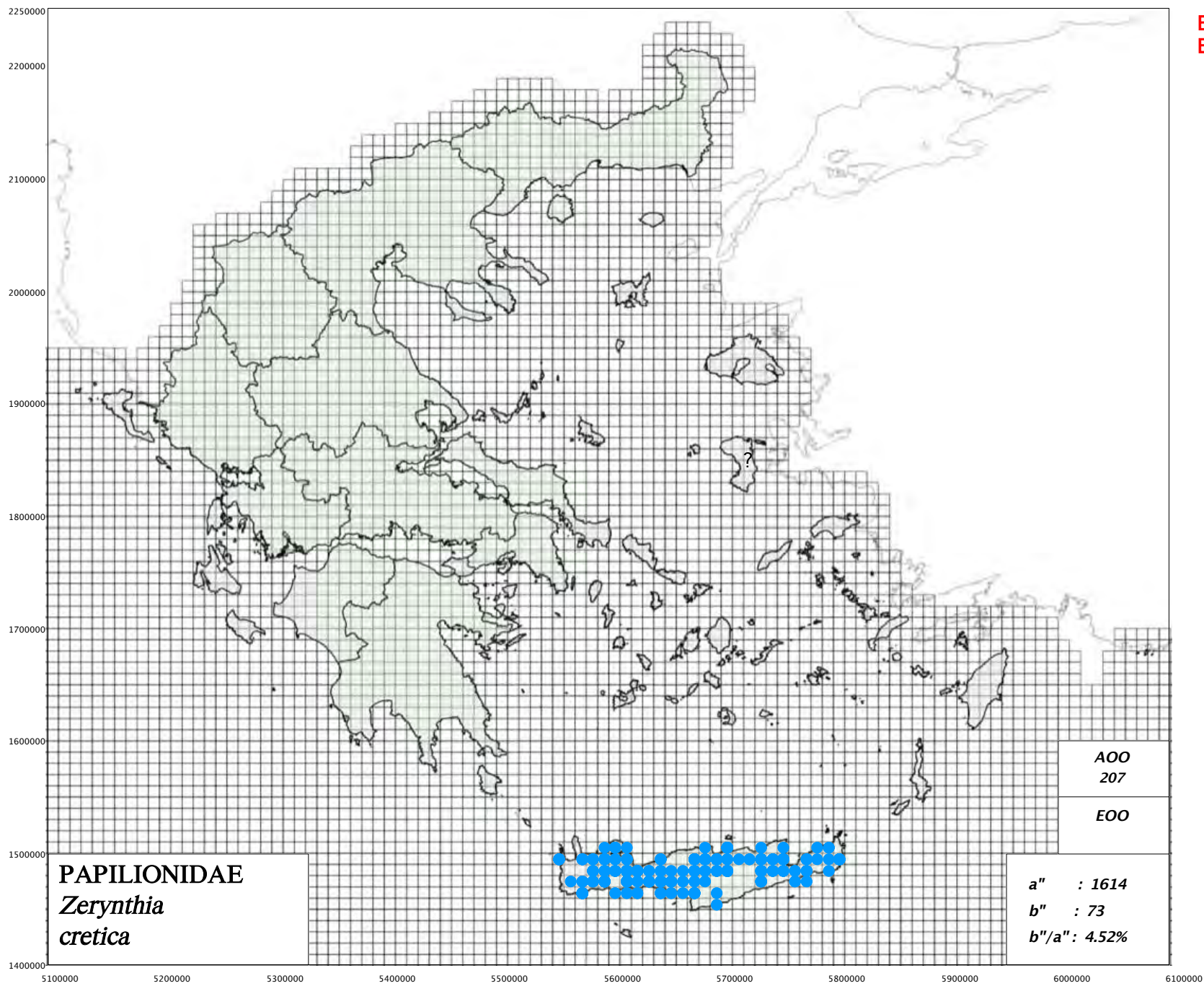


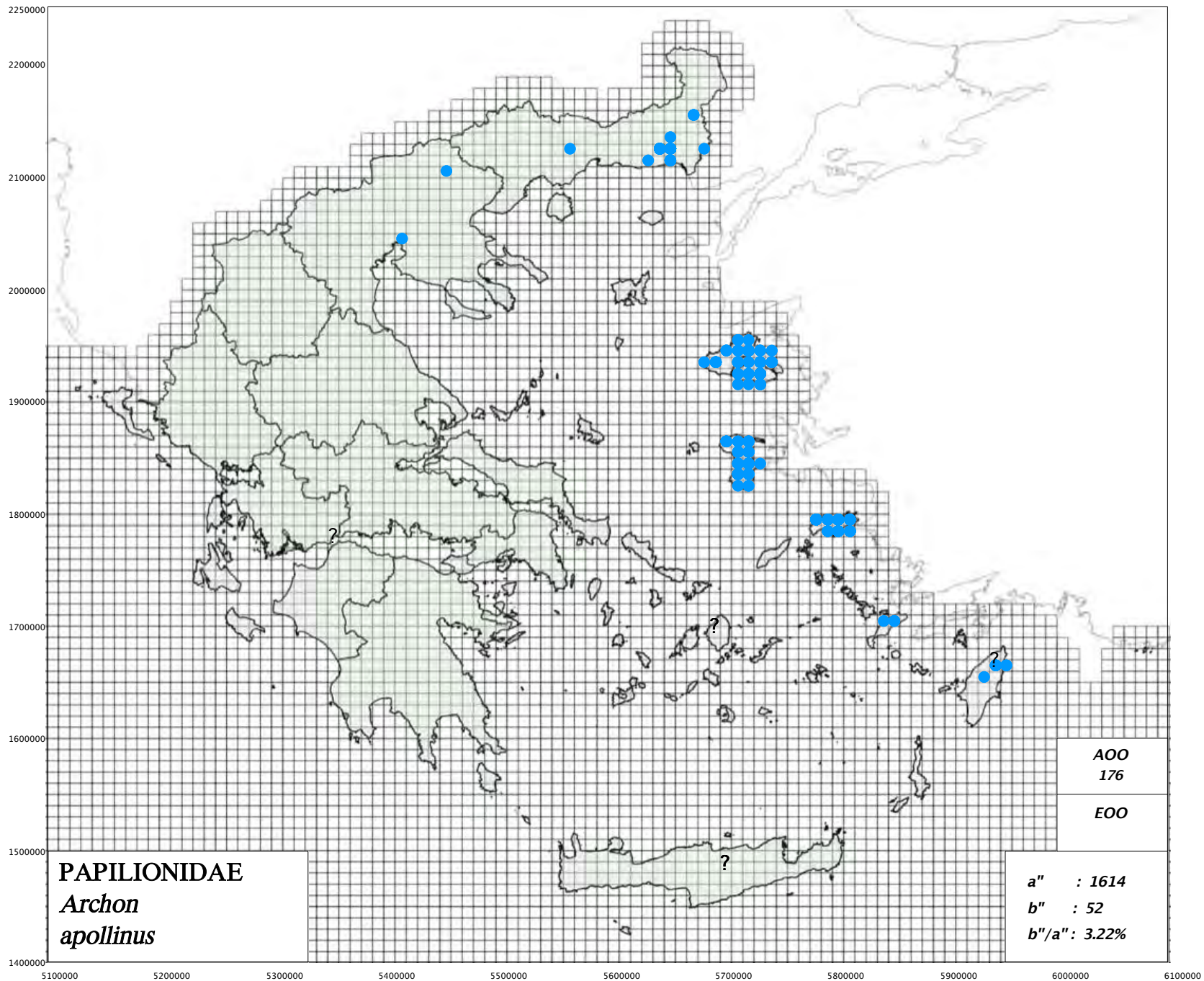


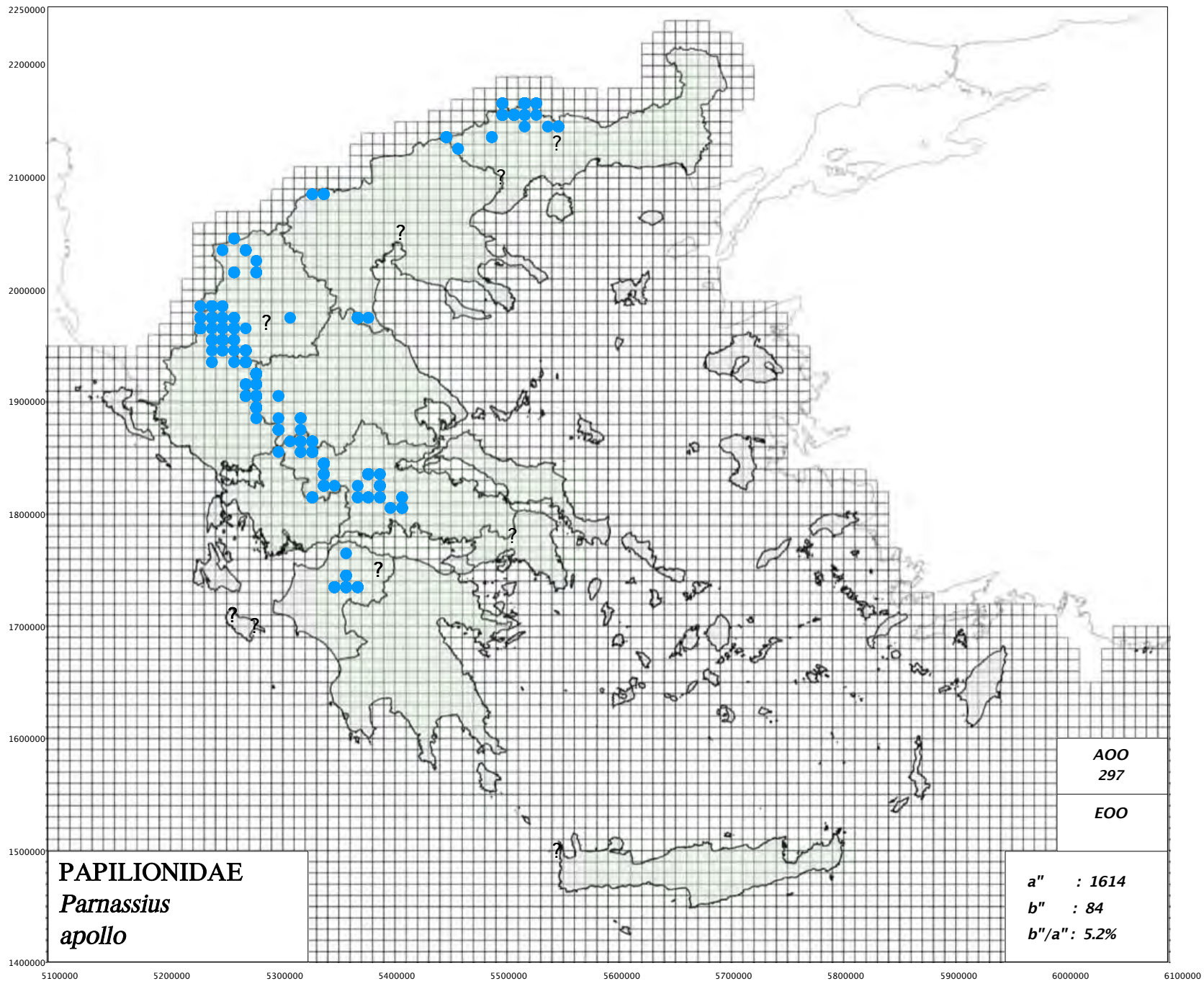


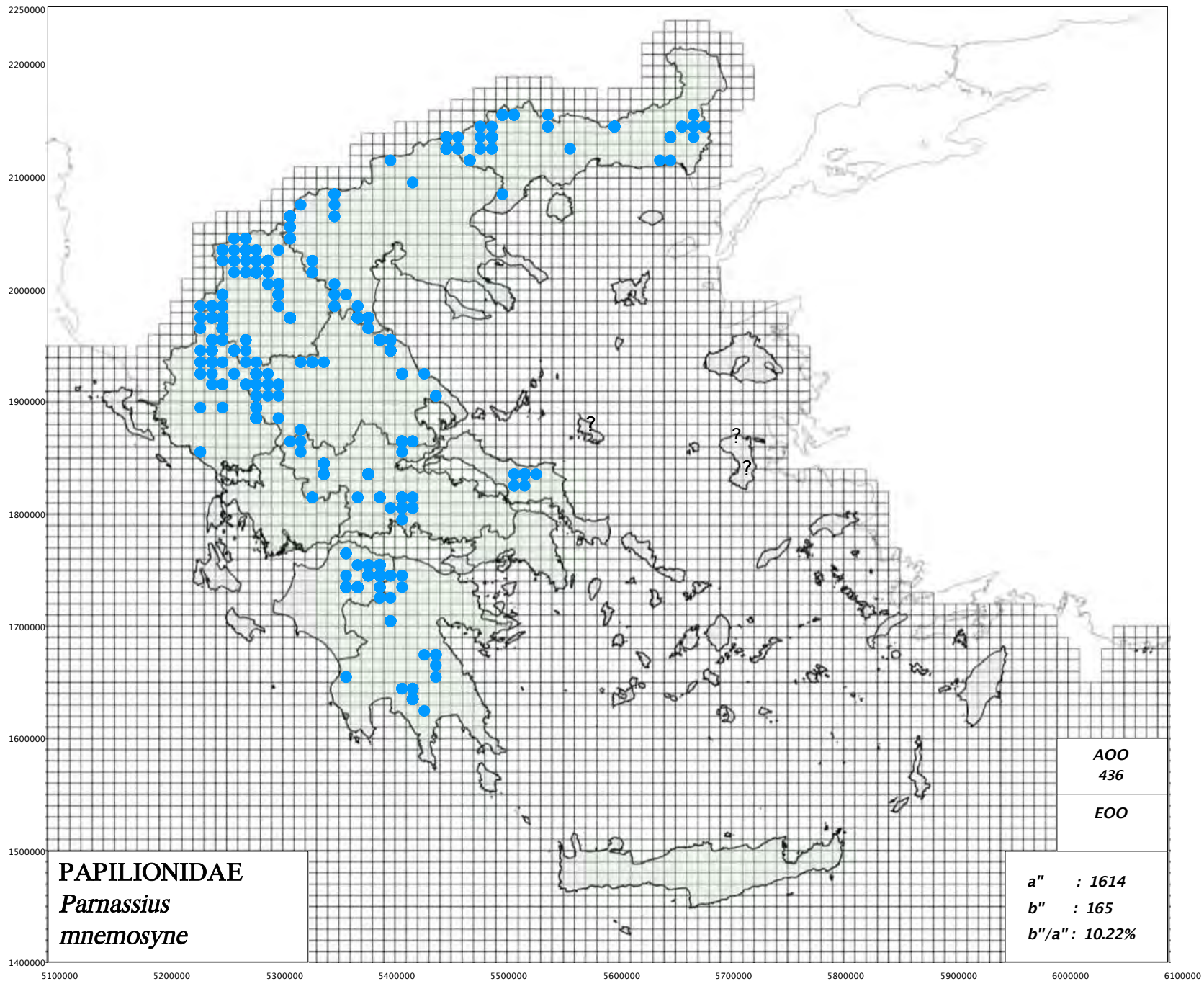


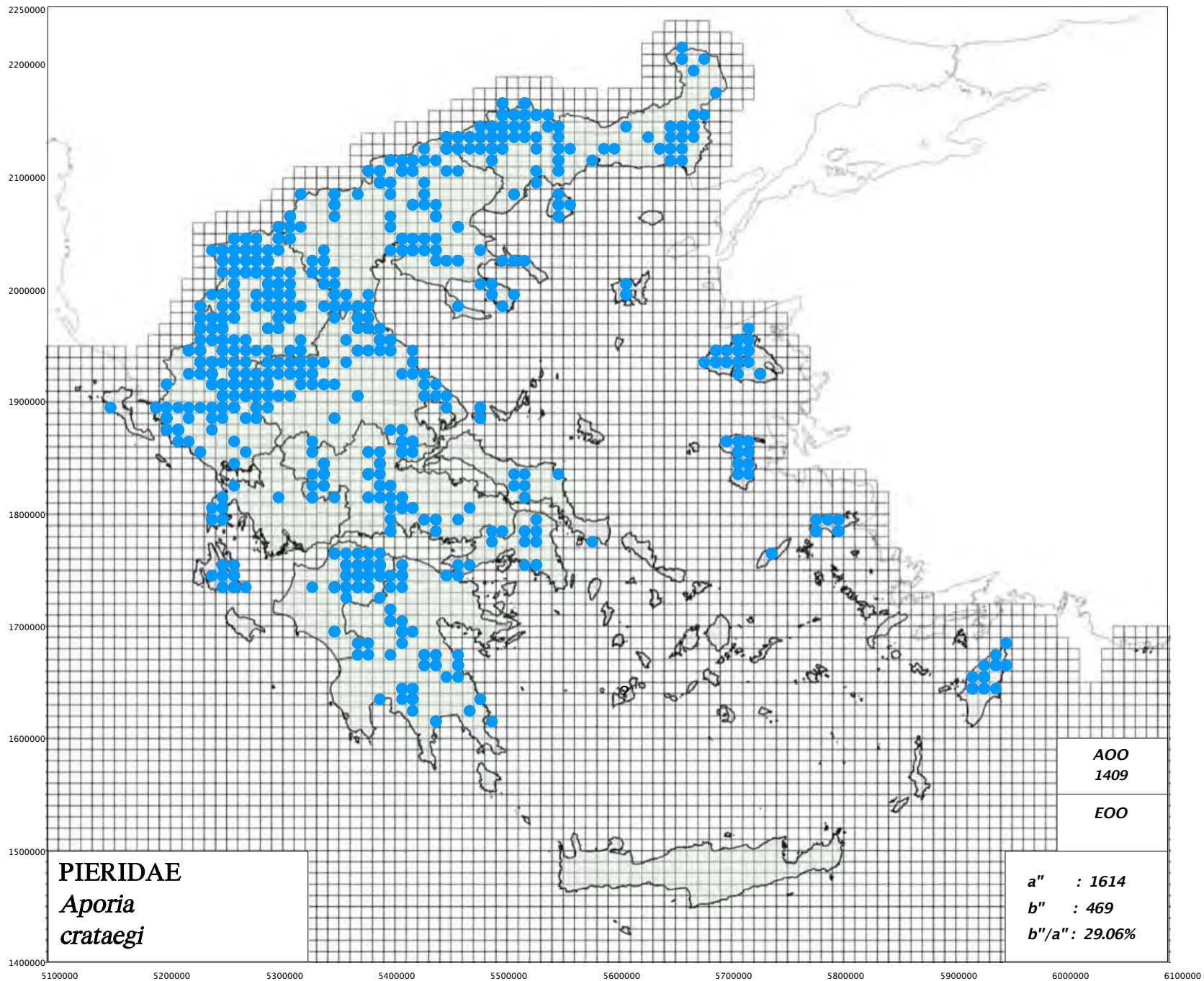
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

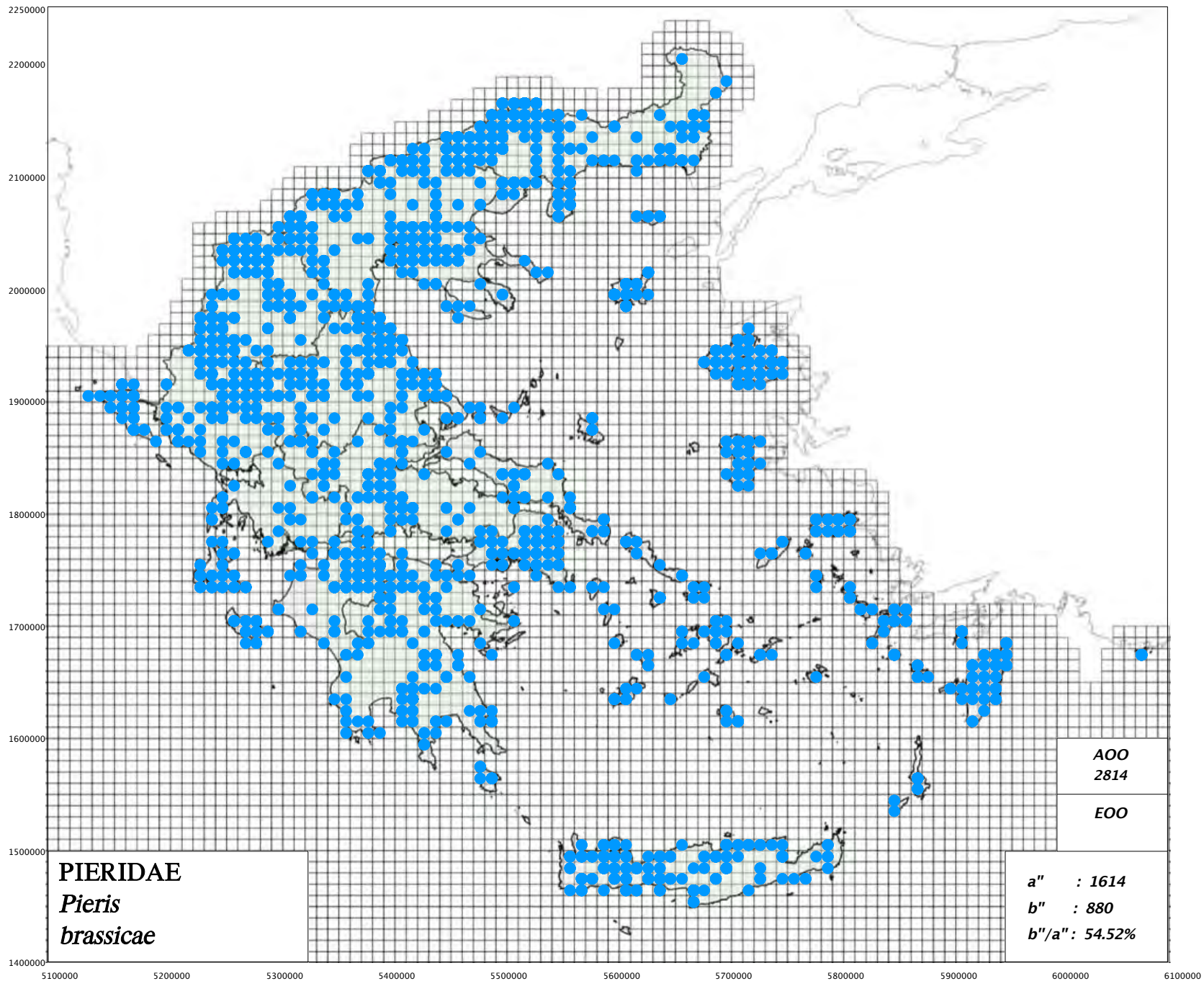


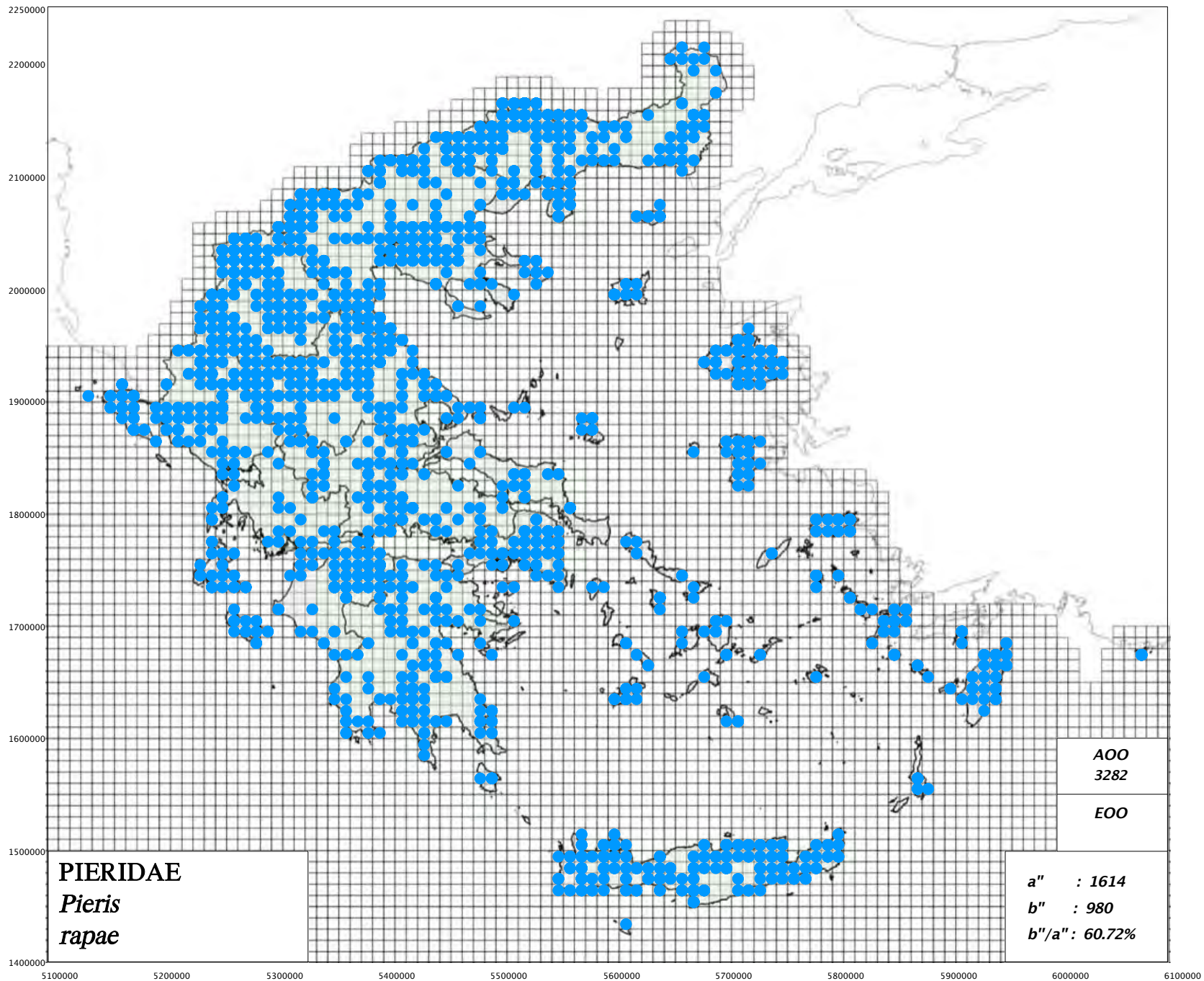


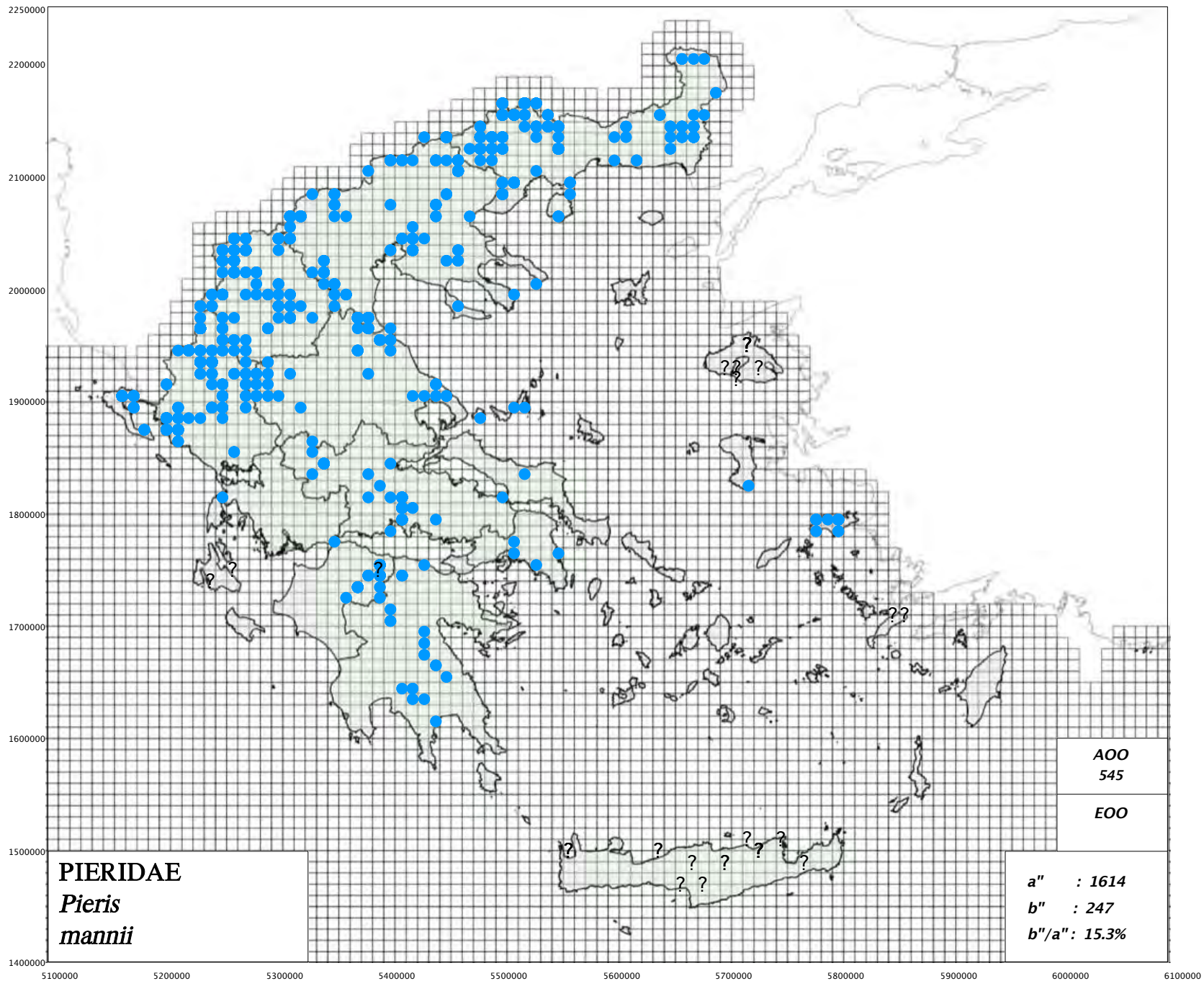


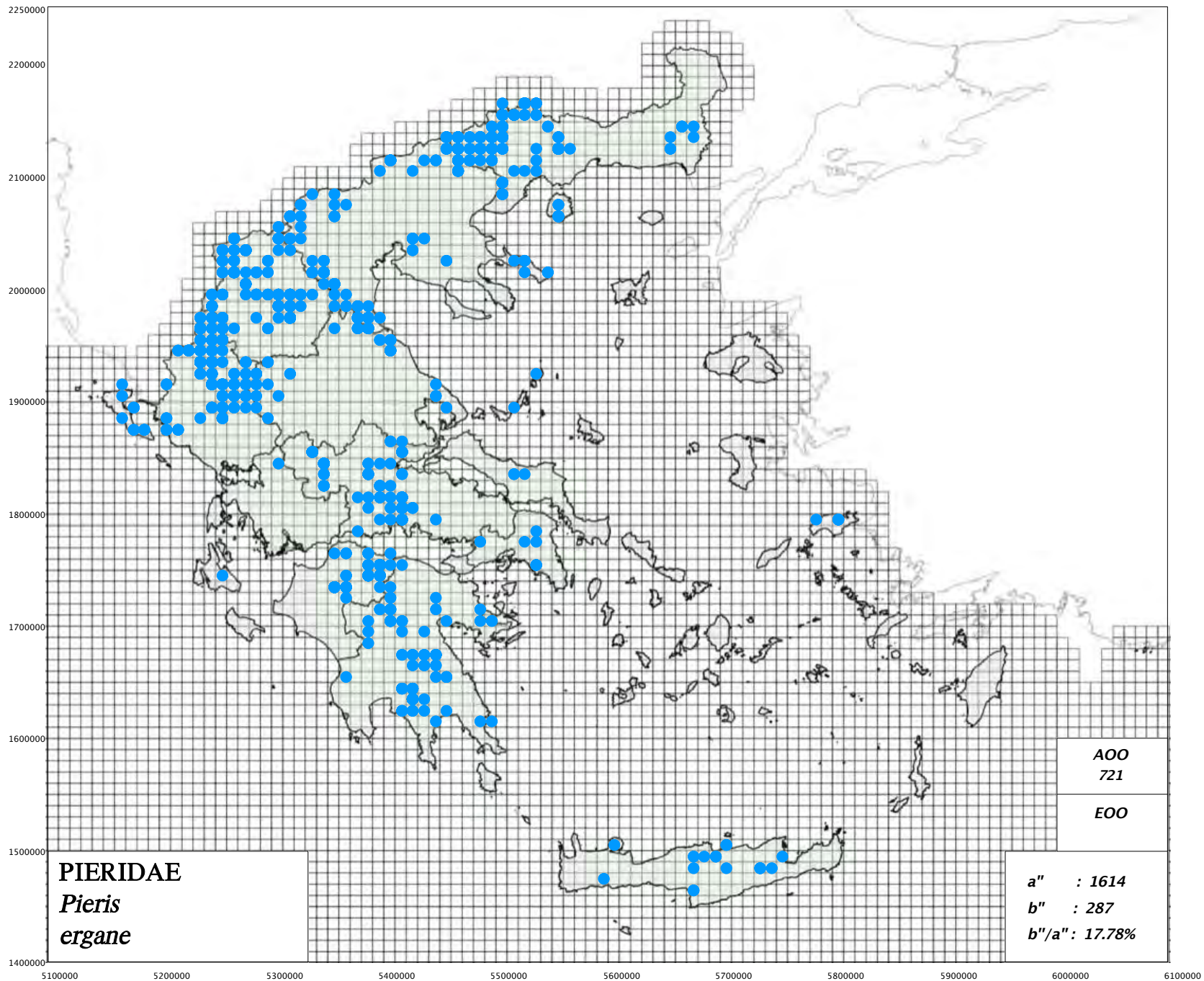


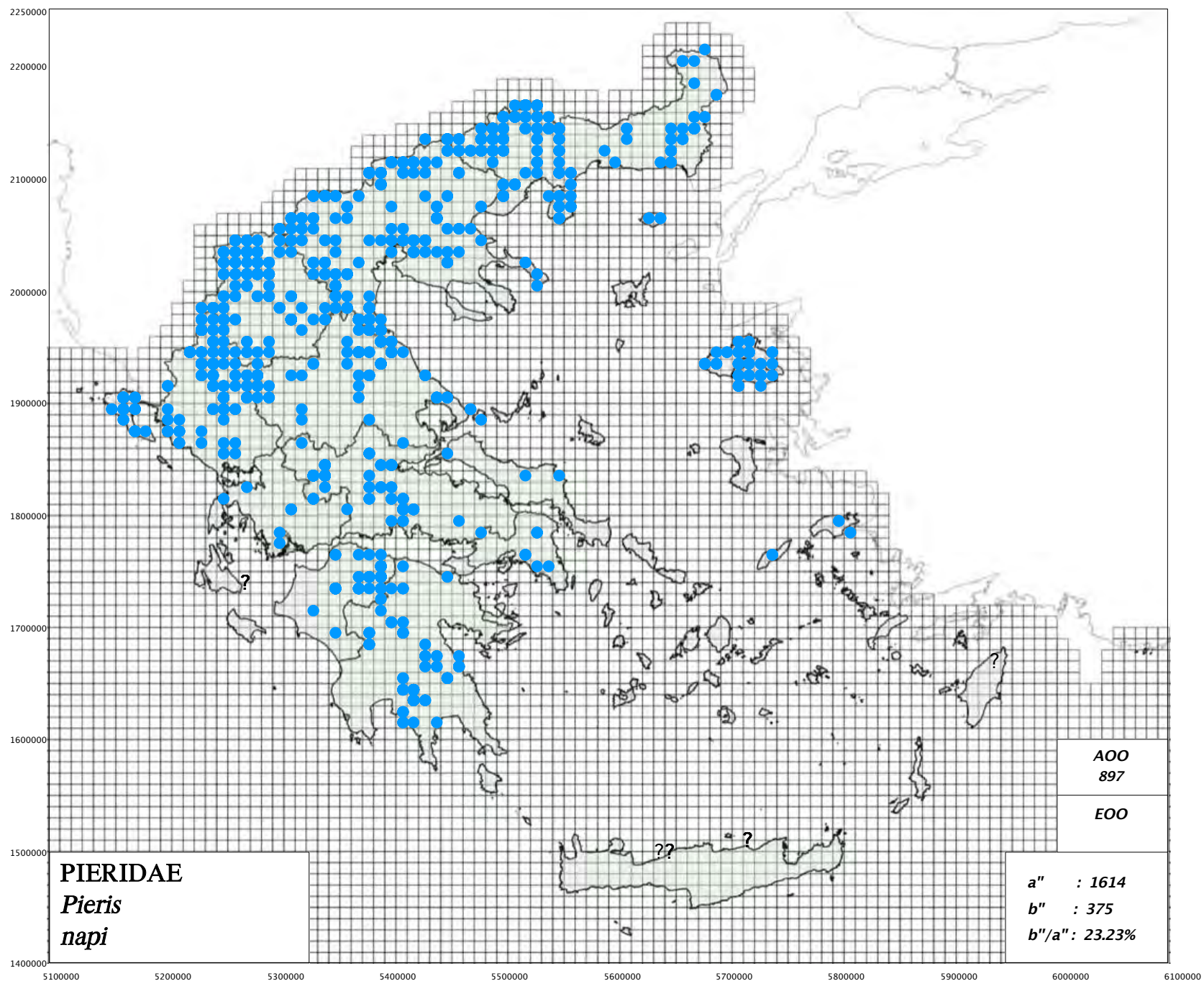




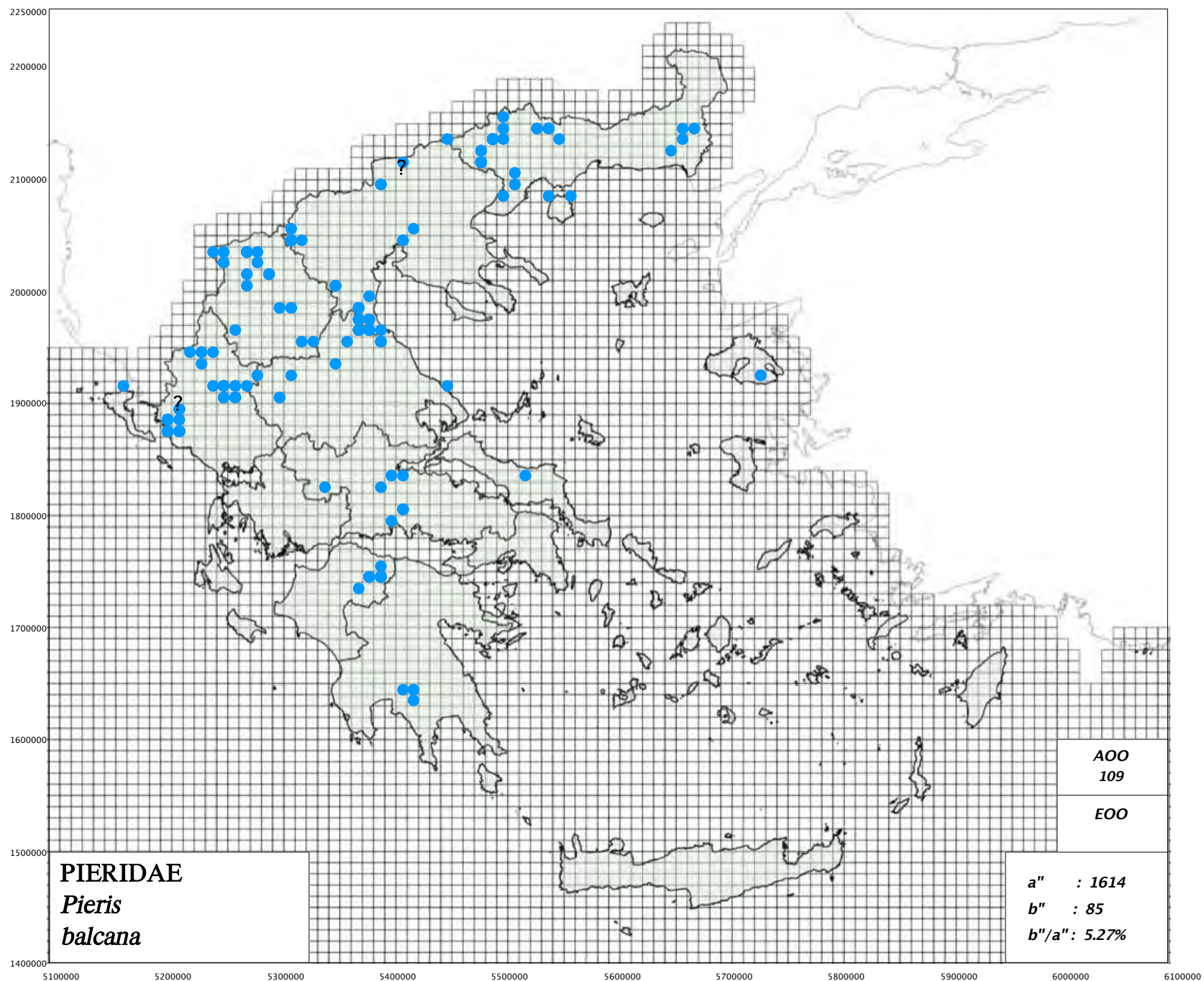


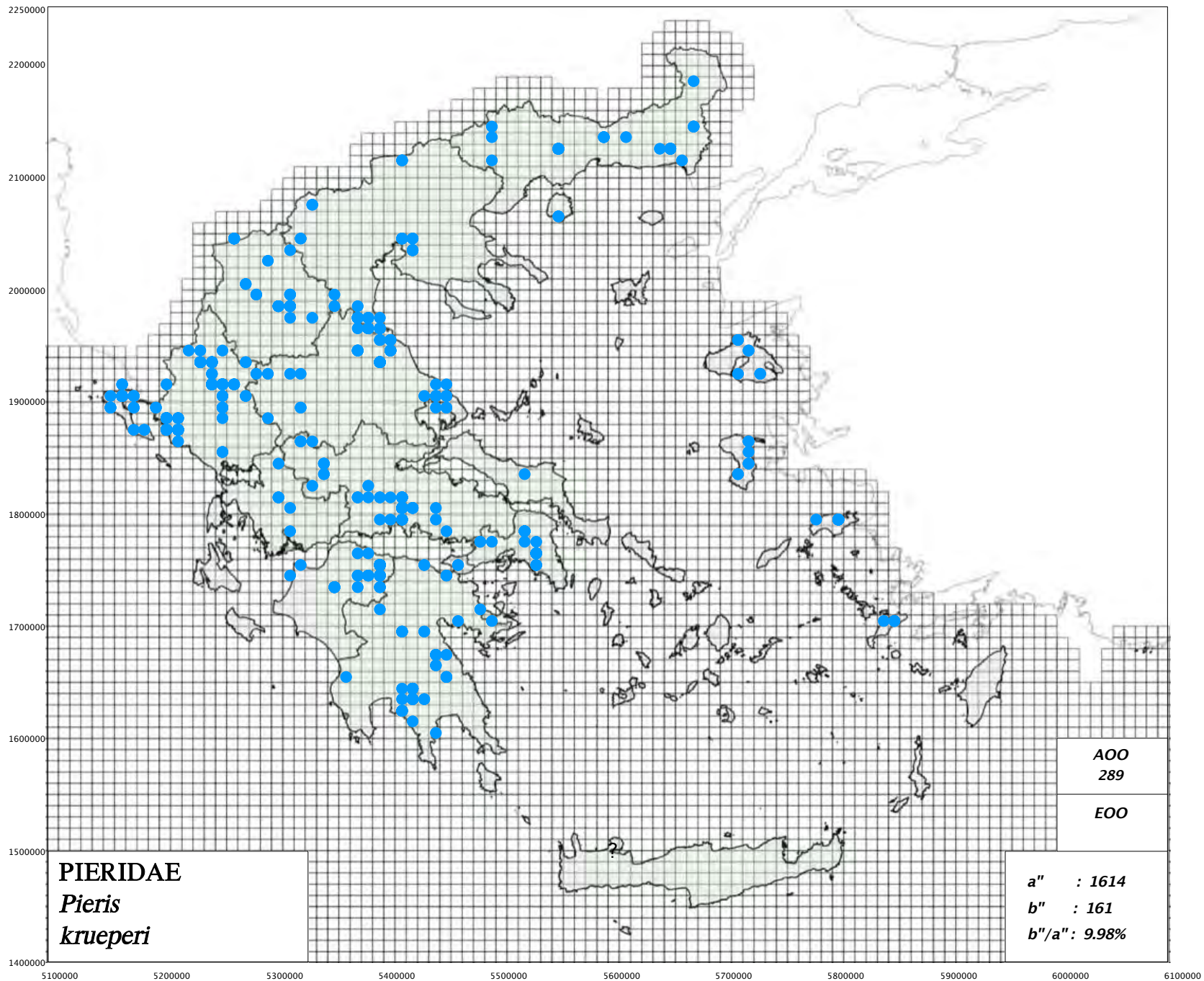


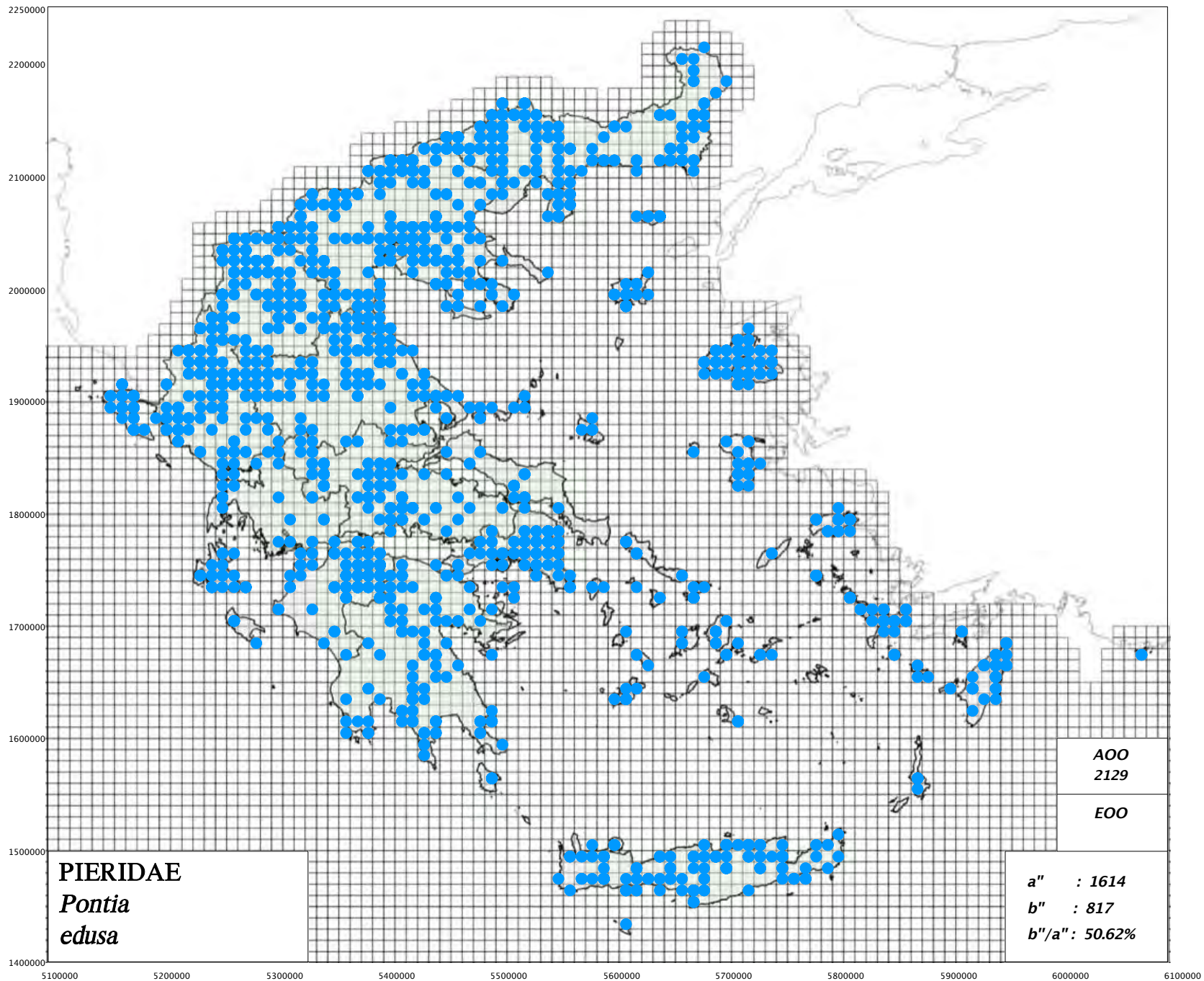


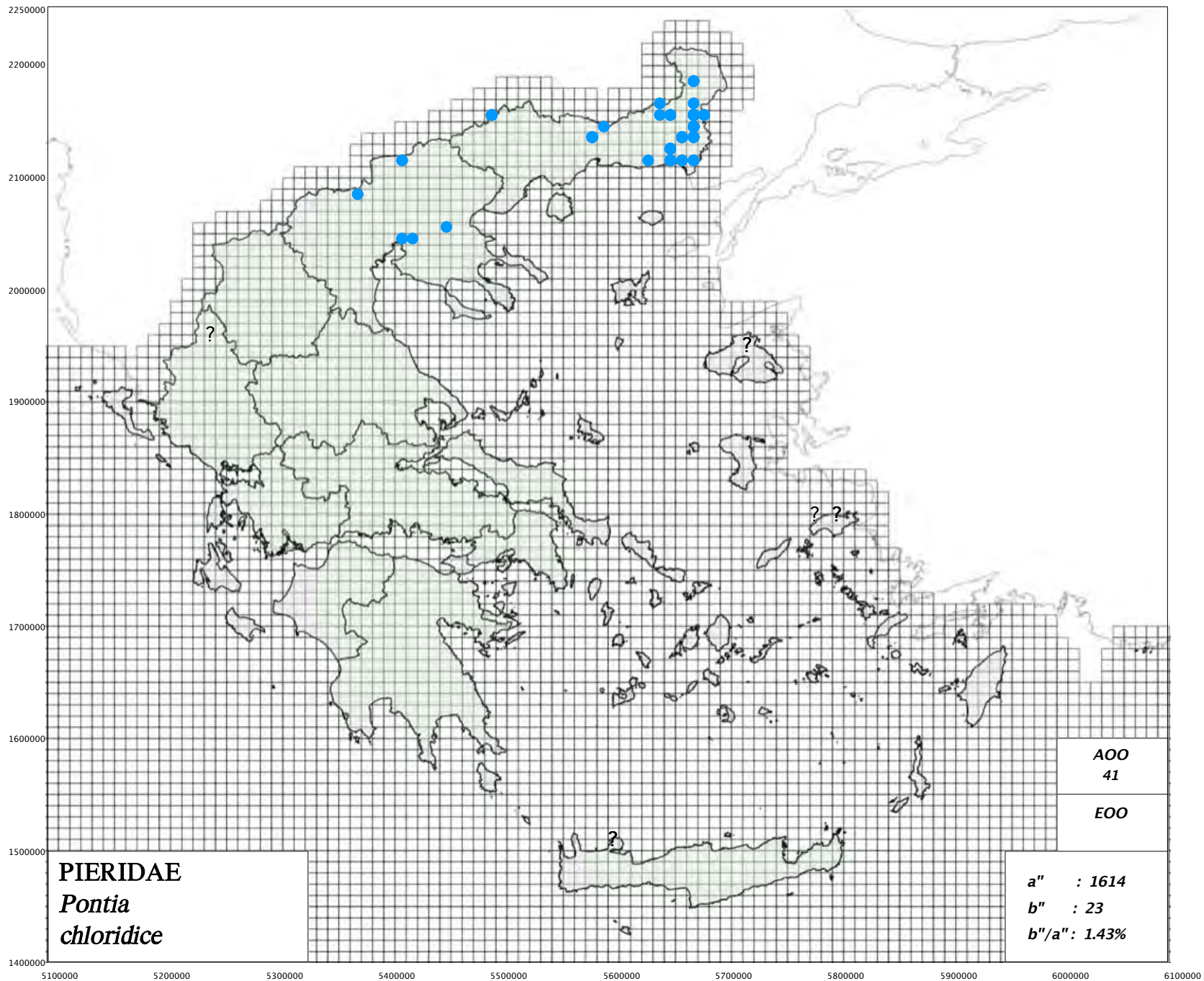


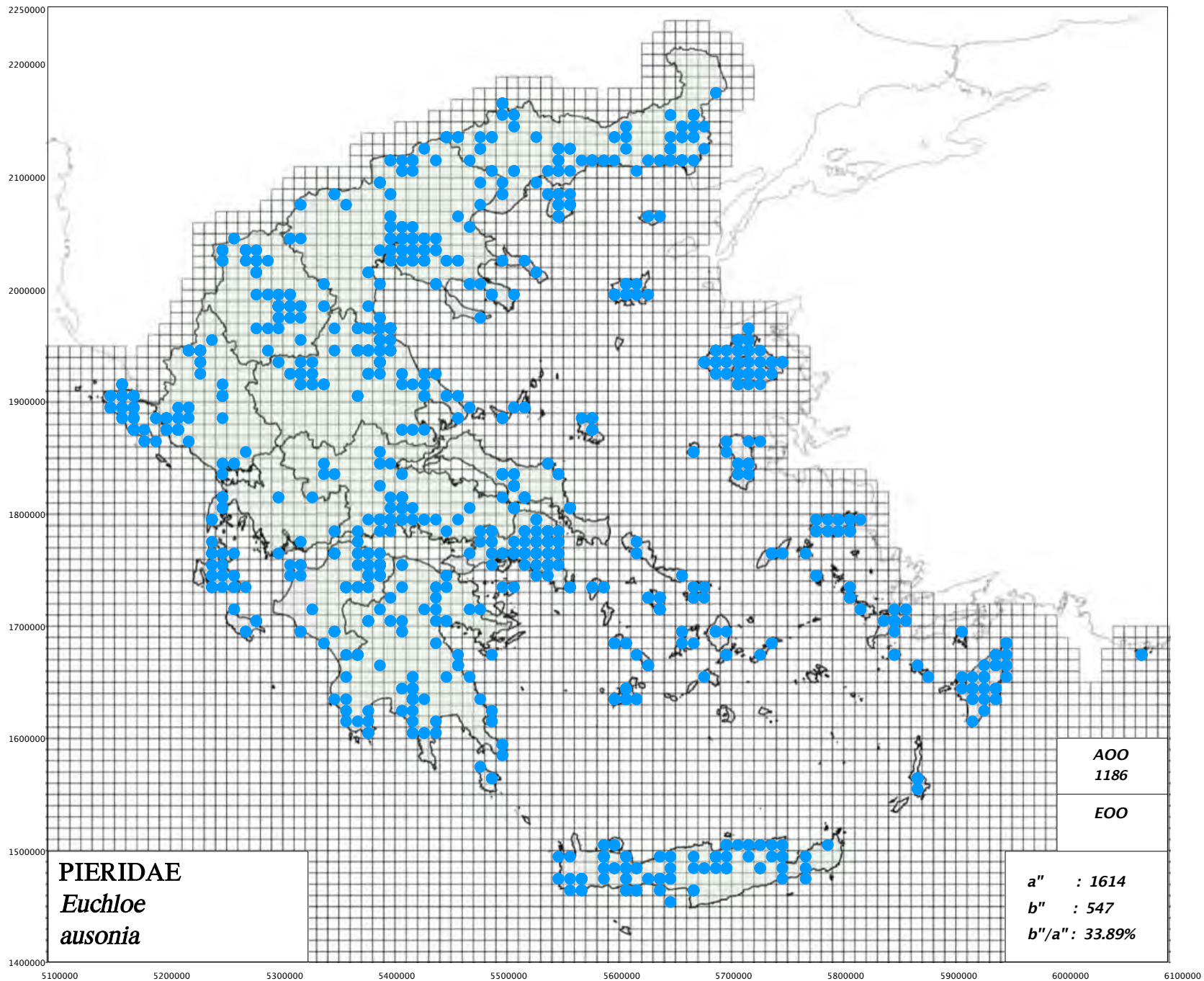
Αμφίβολη αναγνώριση/
Identification Uncertain

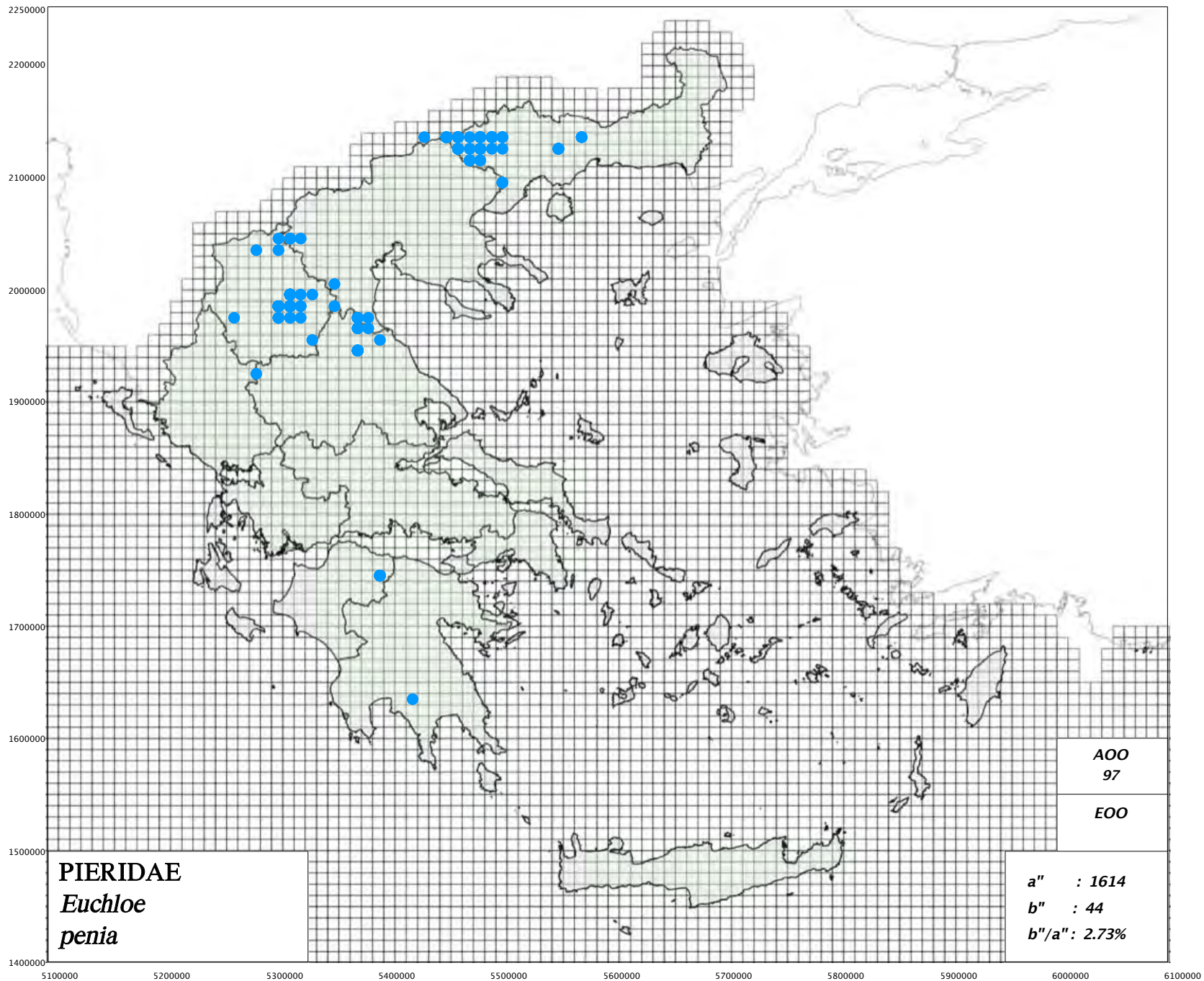


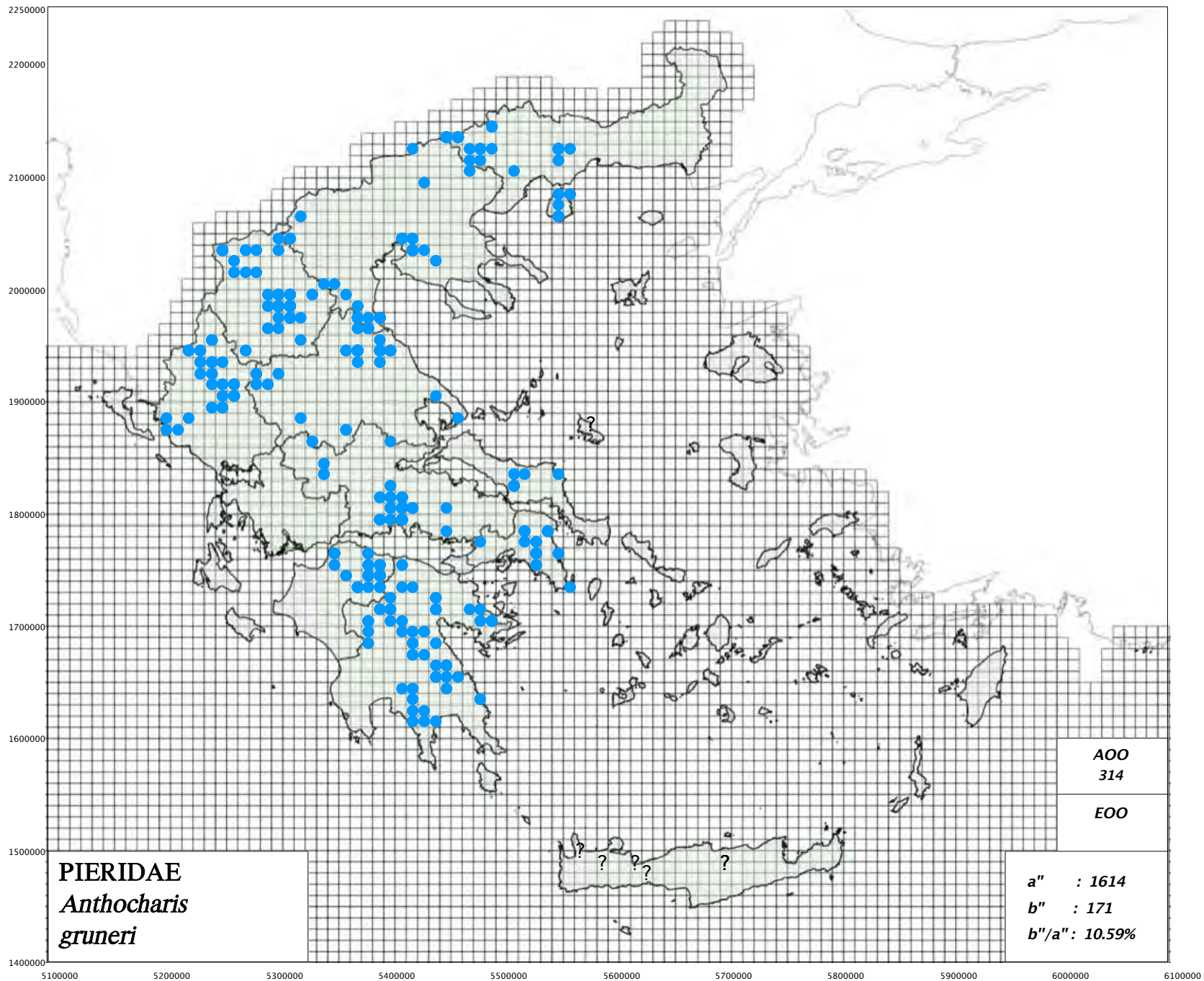


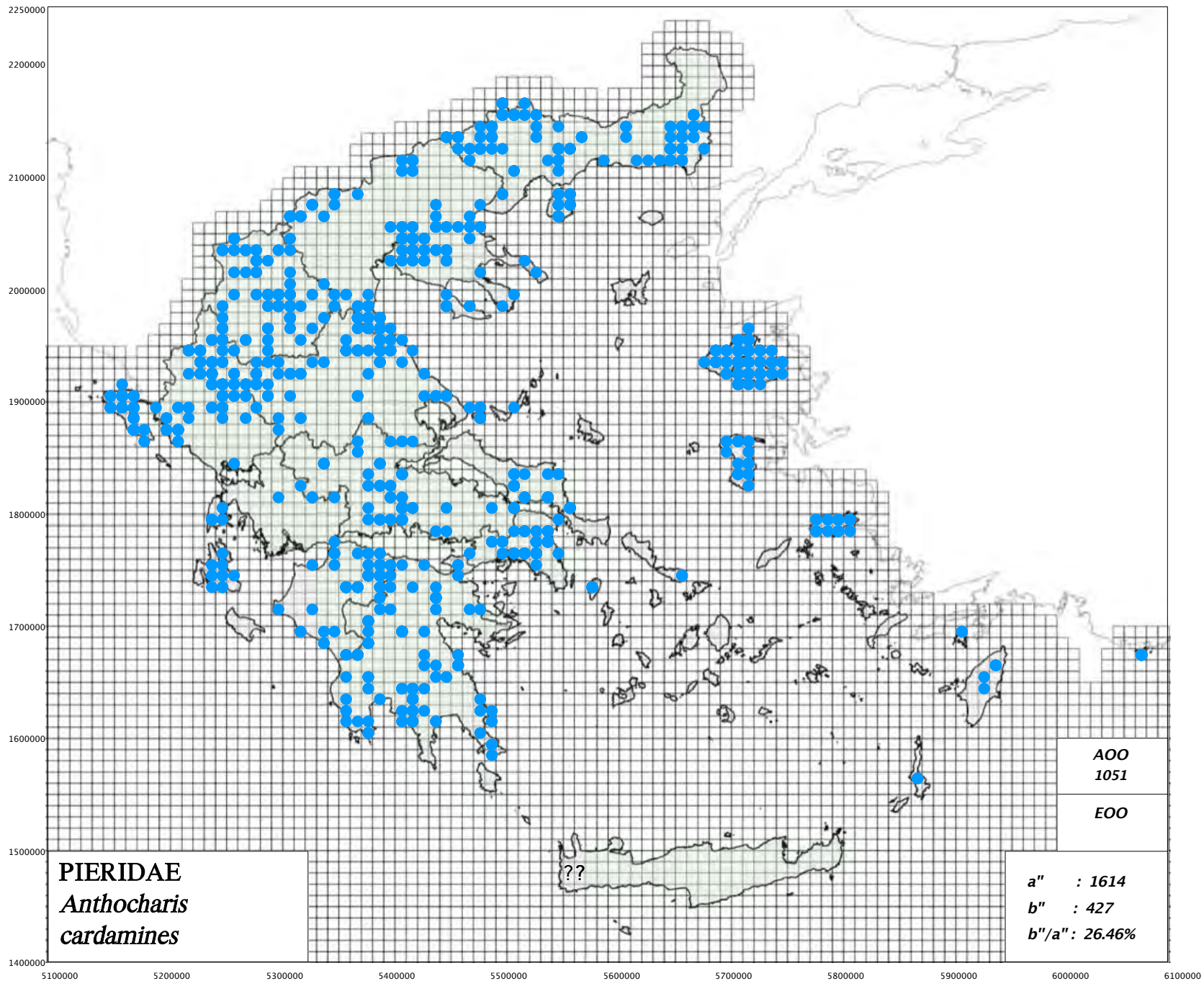


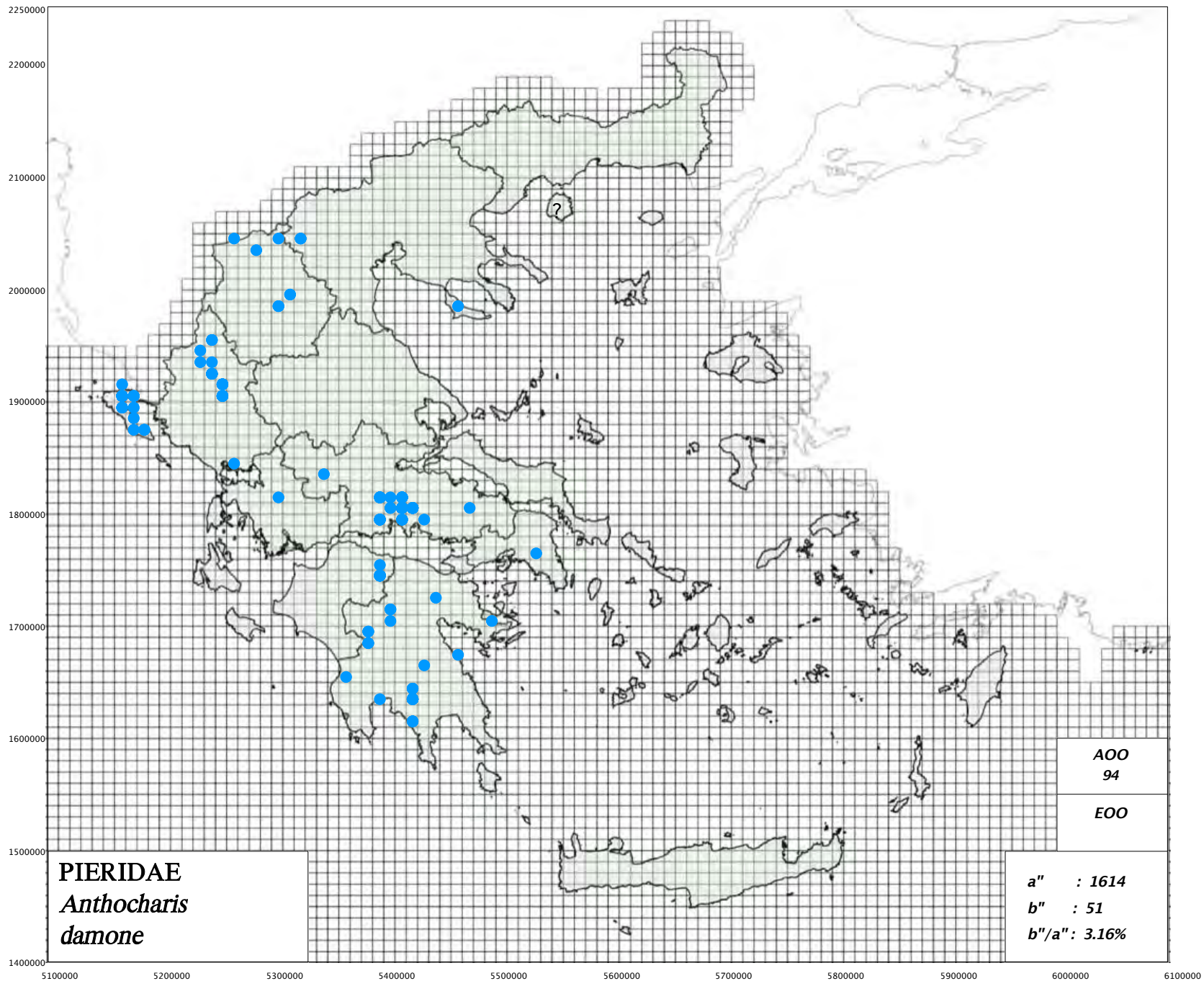


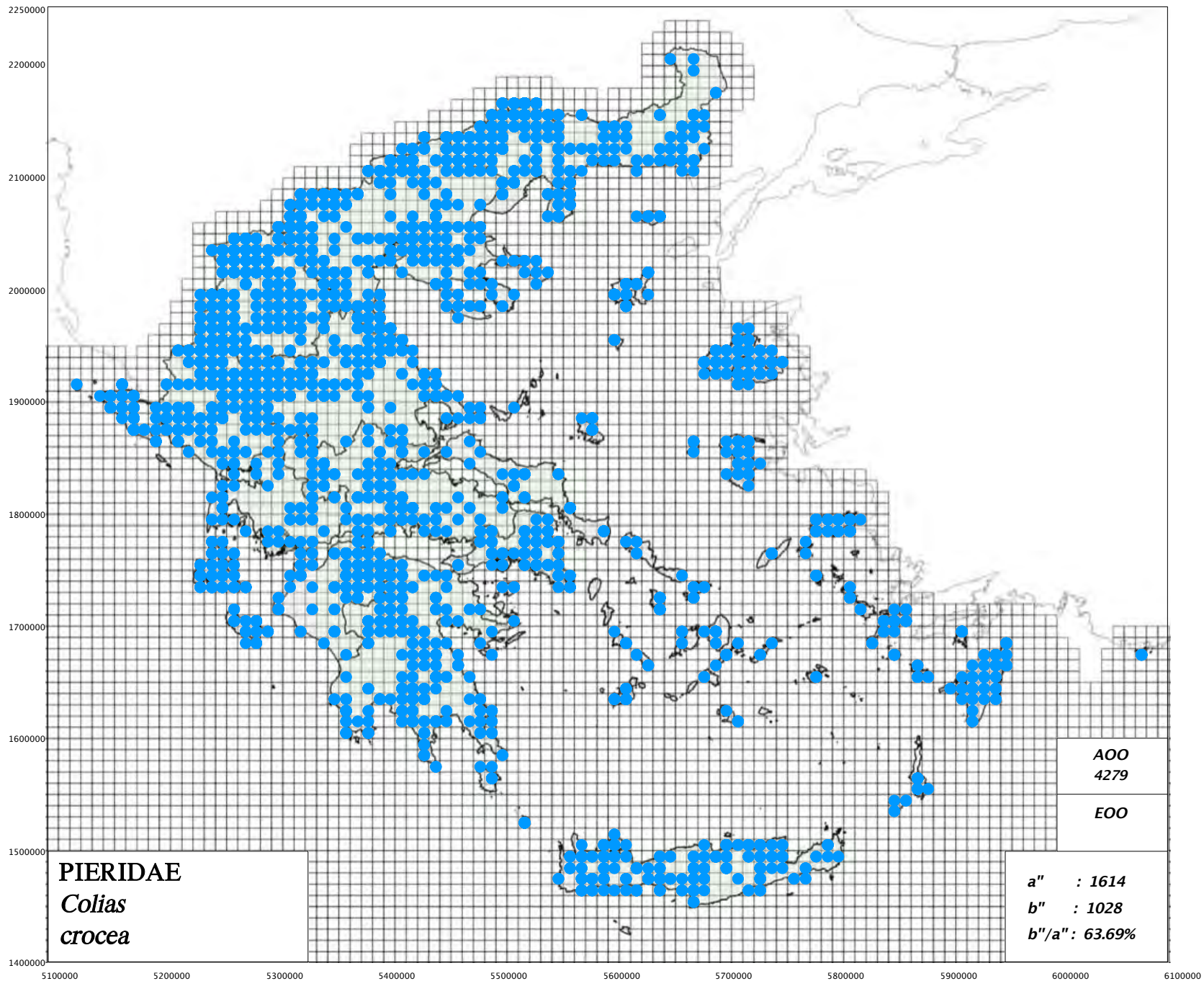


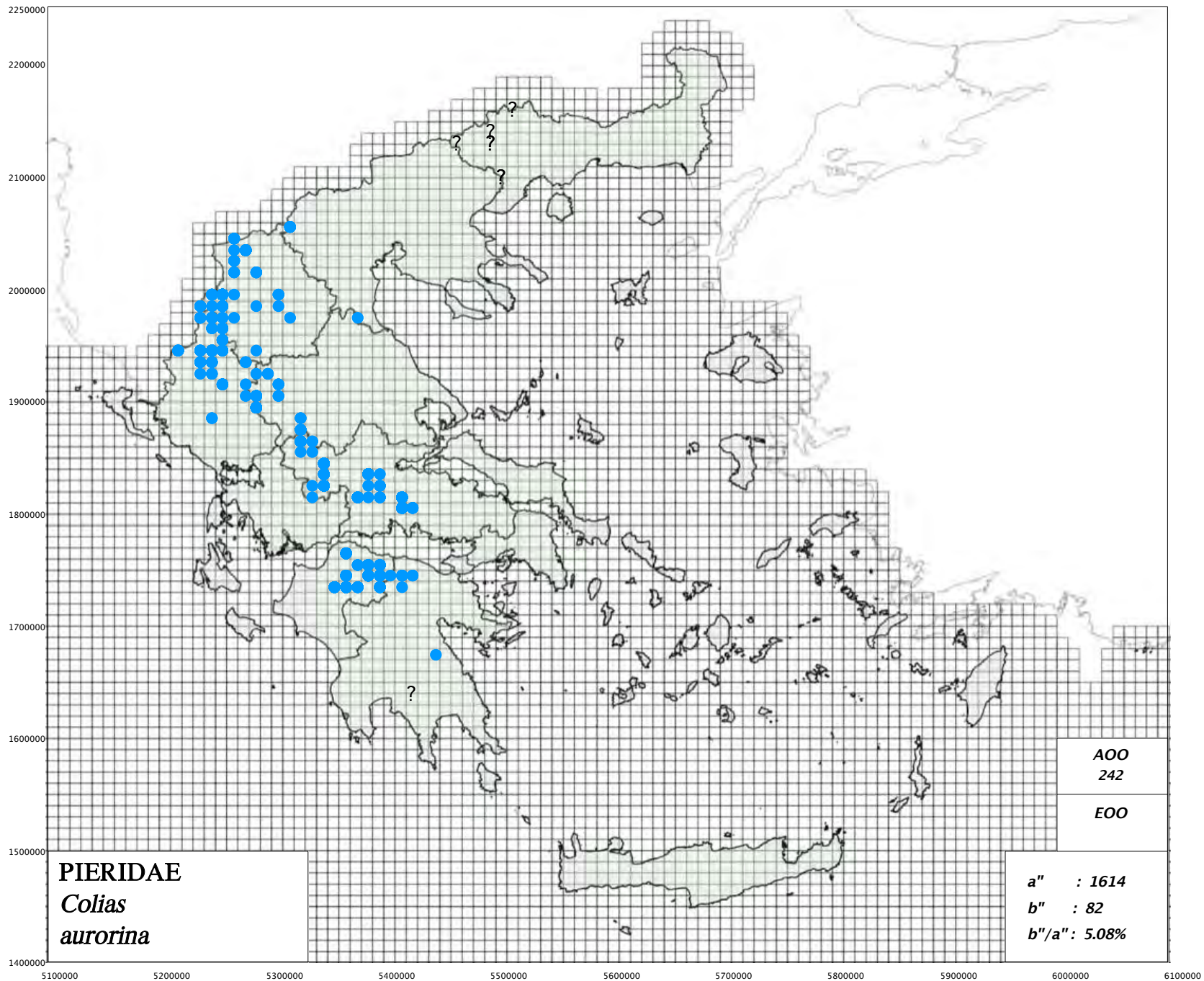


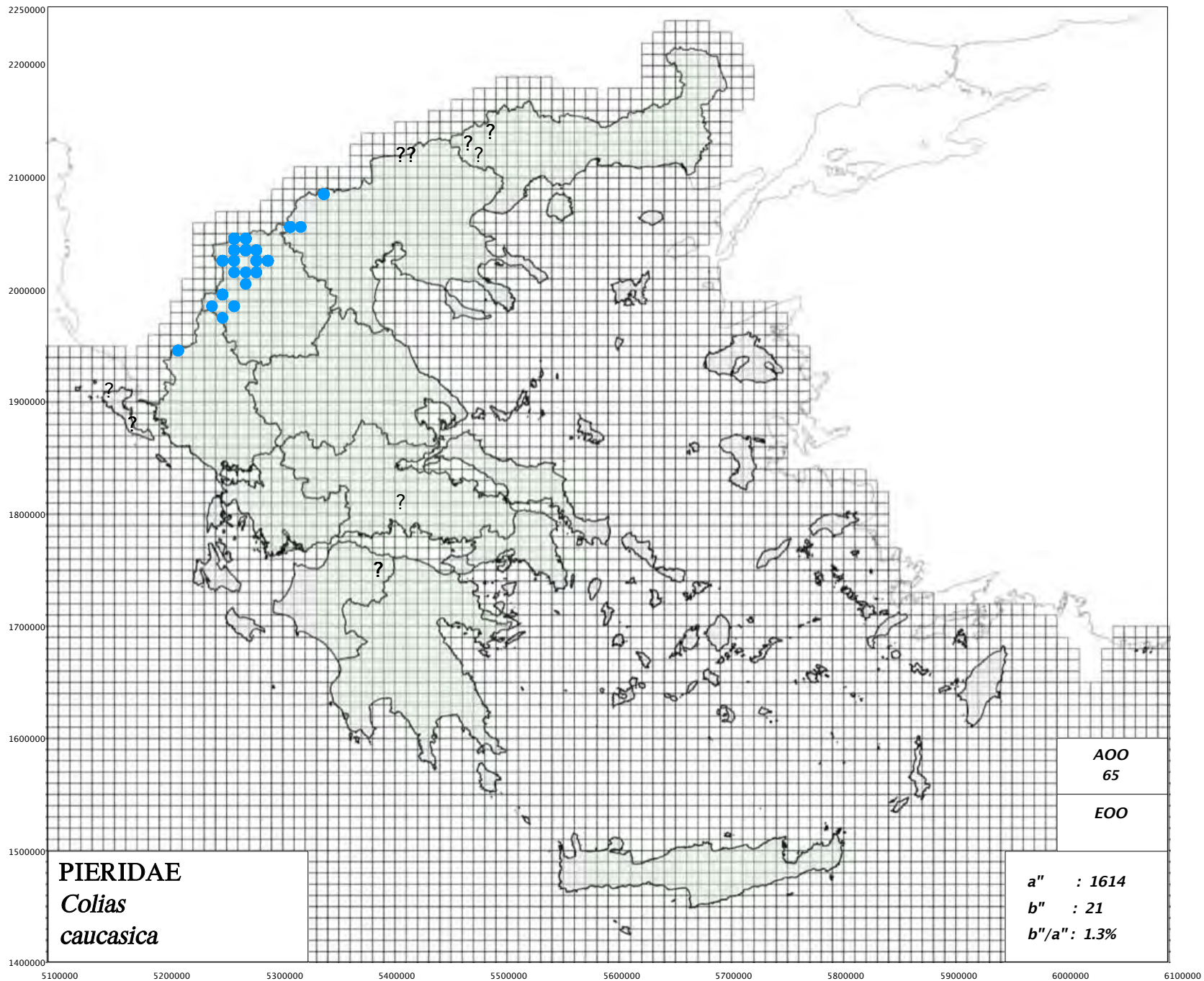


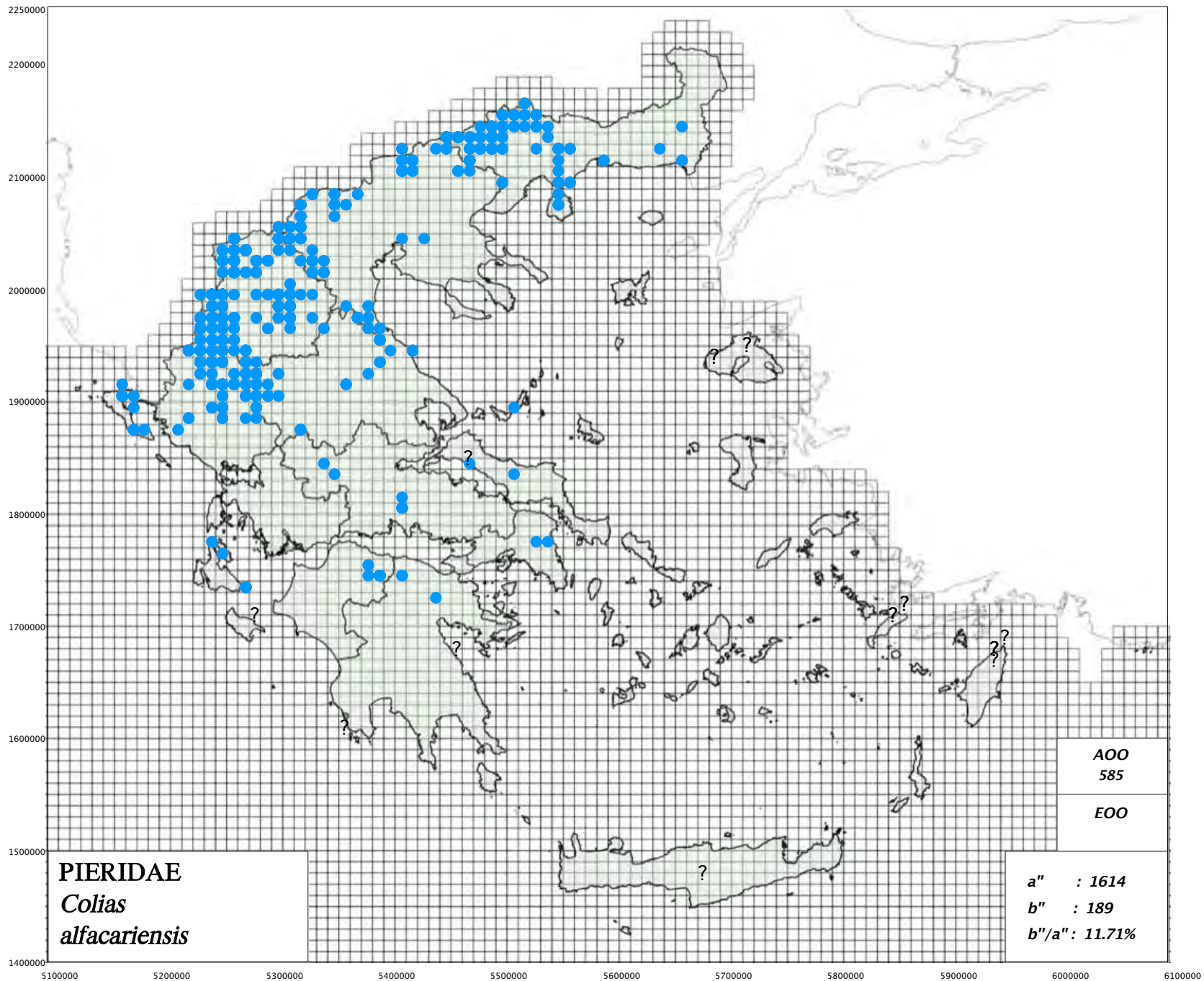




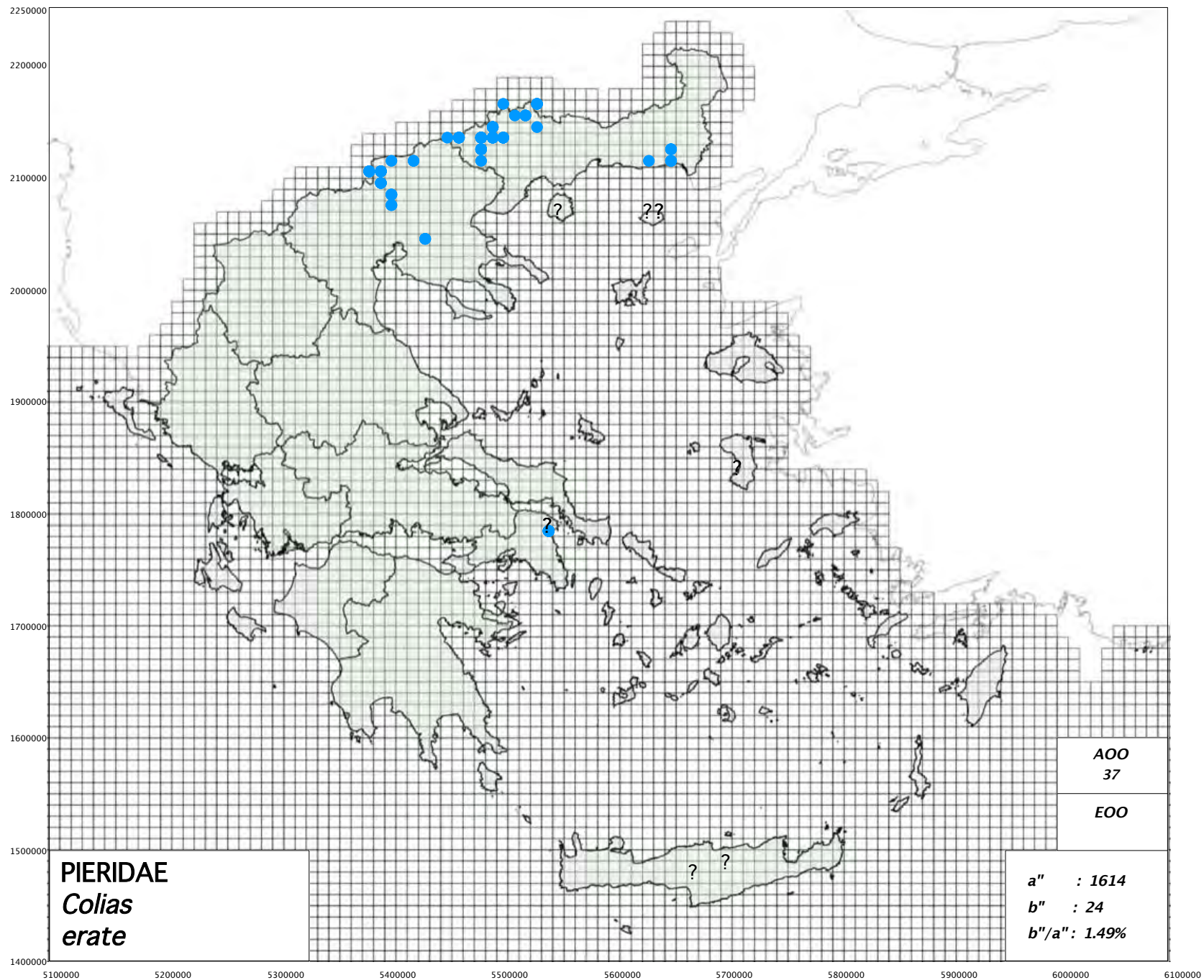


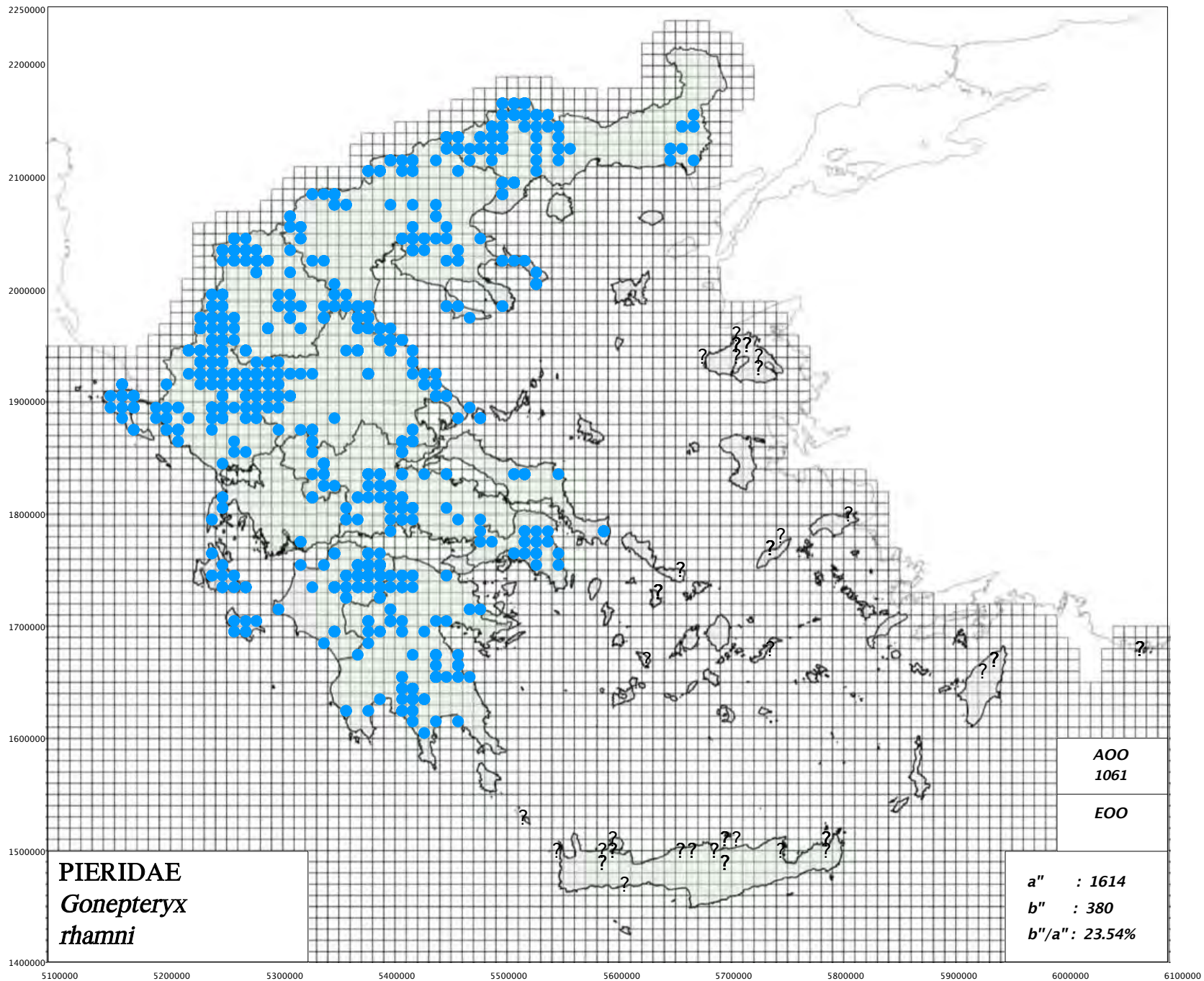




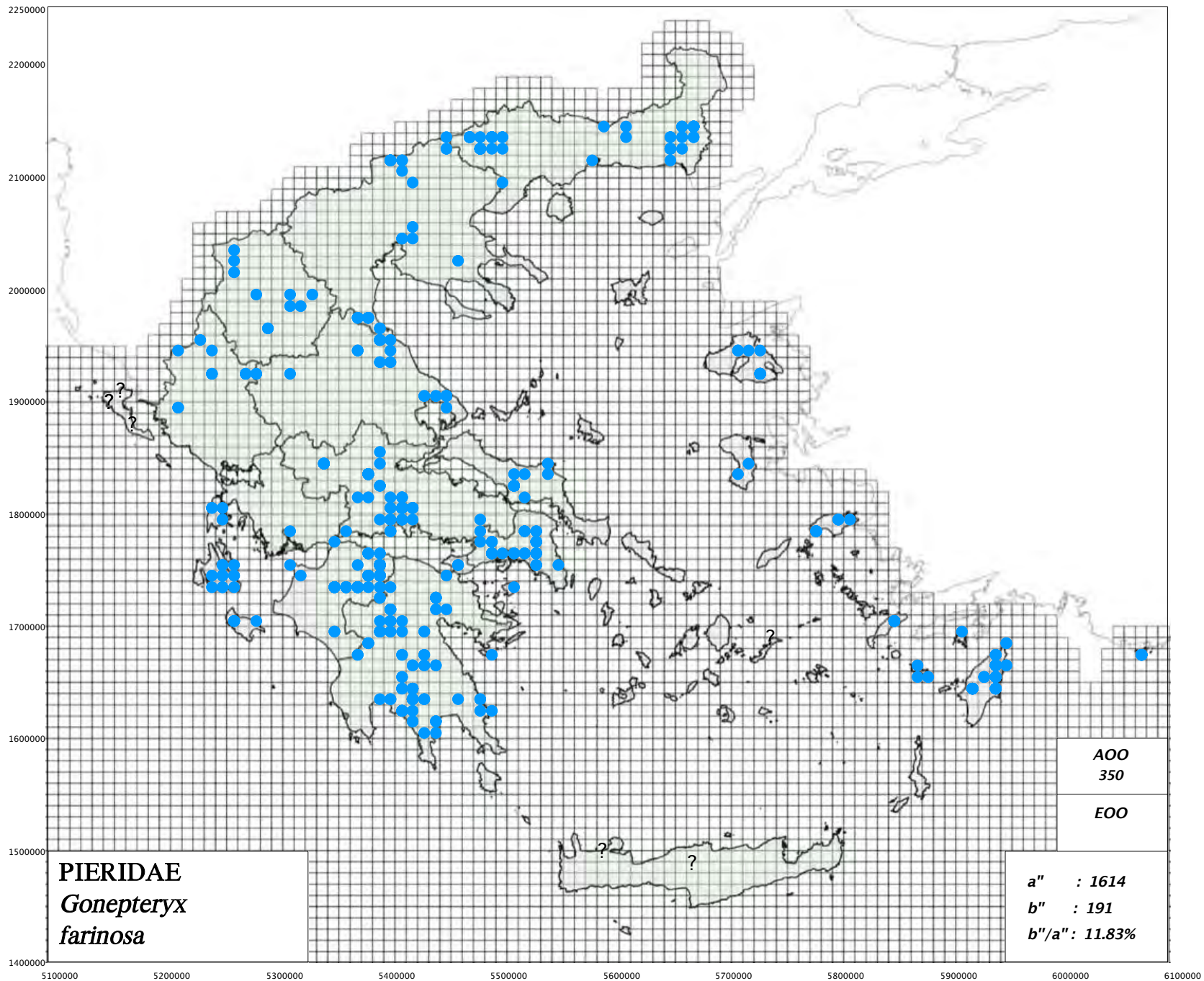


Αμφίβολη αναγνώριση /
Identification Uncertain

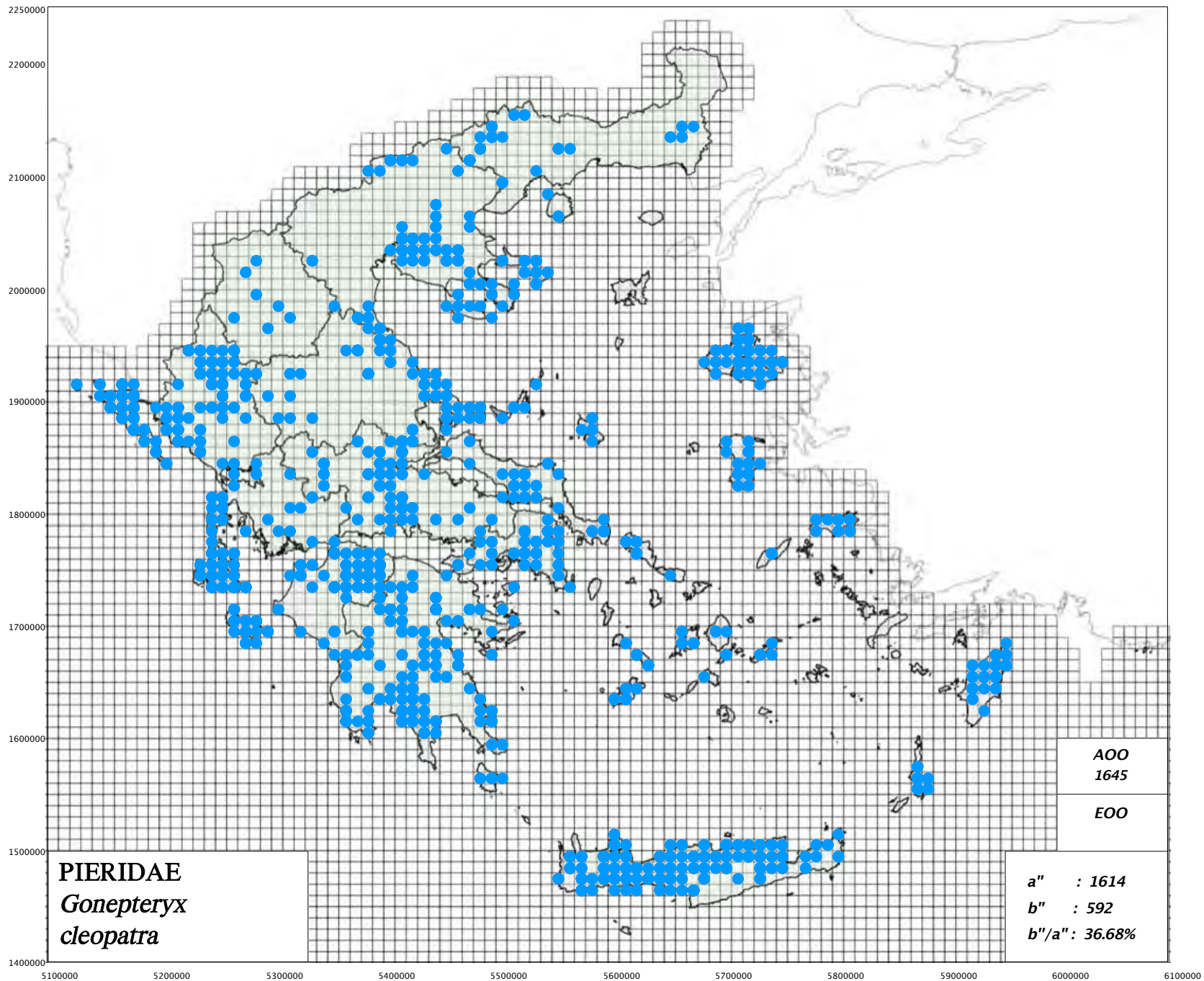




<http://www.pamperis.gr/PHOTOGRAPHS/Gonepteryx.html>

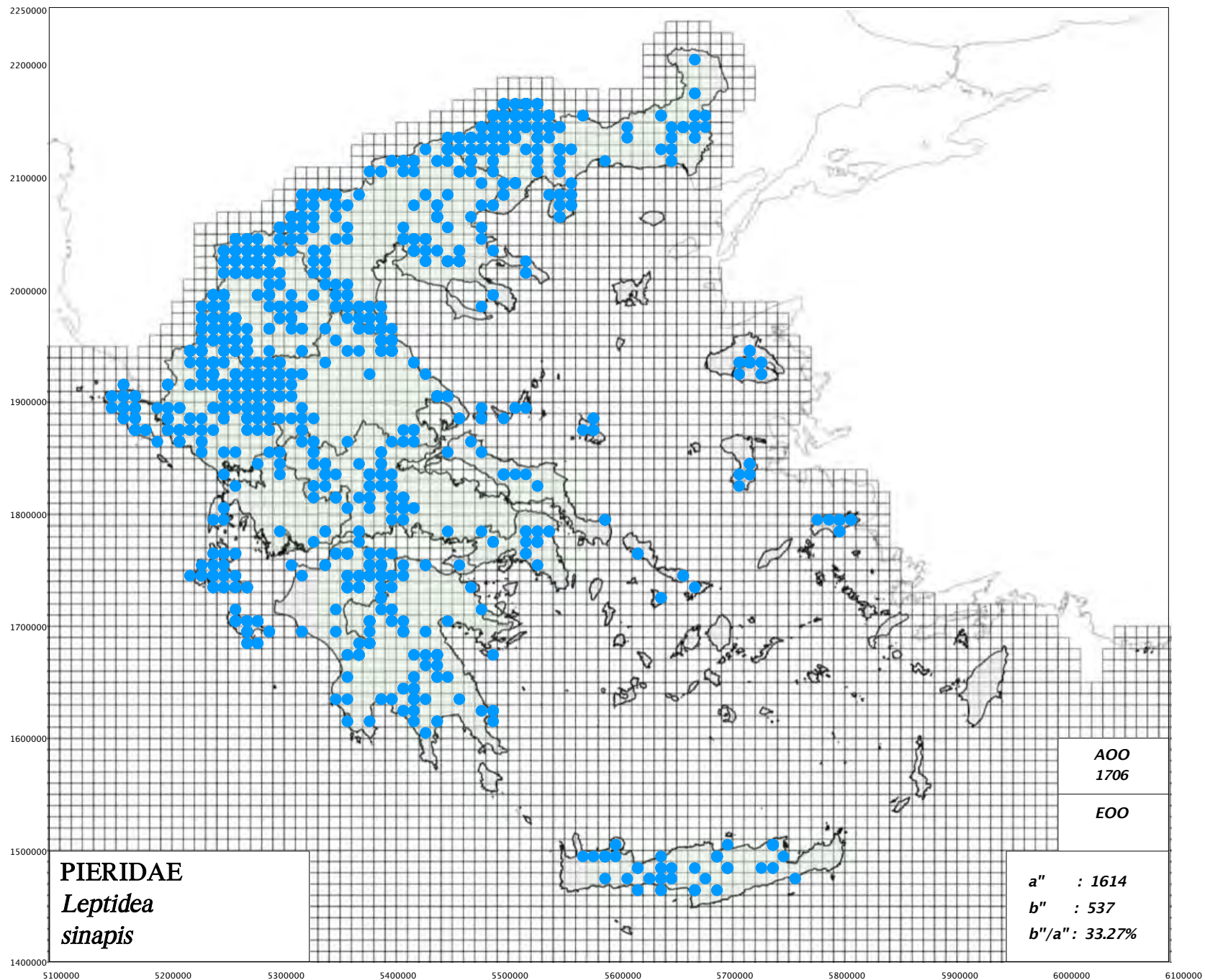


<http://www.pamperis.gr/PHOTOGRAPHS/Gonepteryx.html>



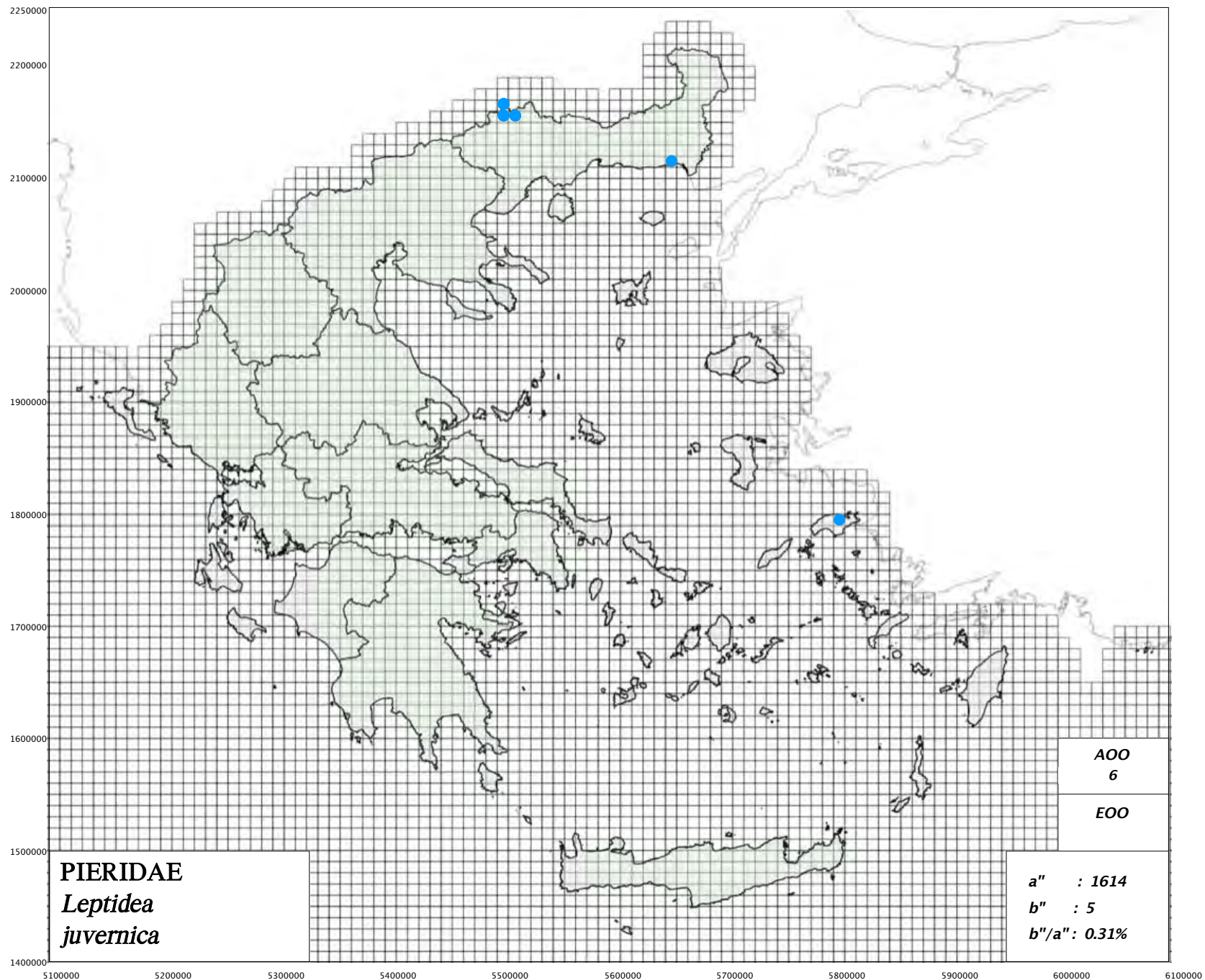
<http://www.pamperis.gr/PHOTOGRAPHS/Gonepteryx.html>

Αμφίβολη αναγνώριση/
Identification Uncertain

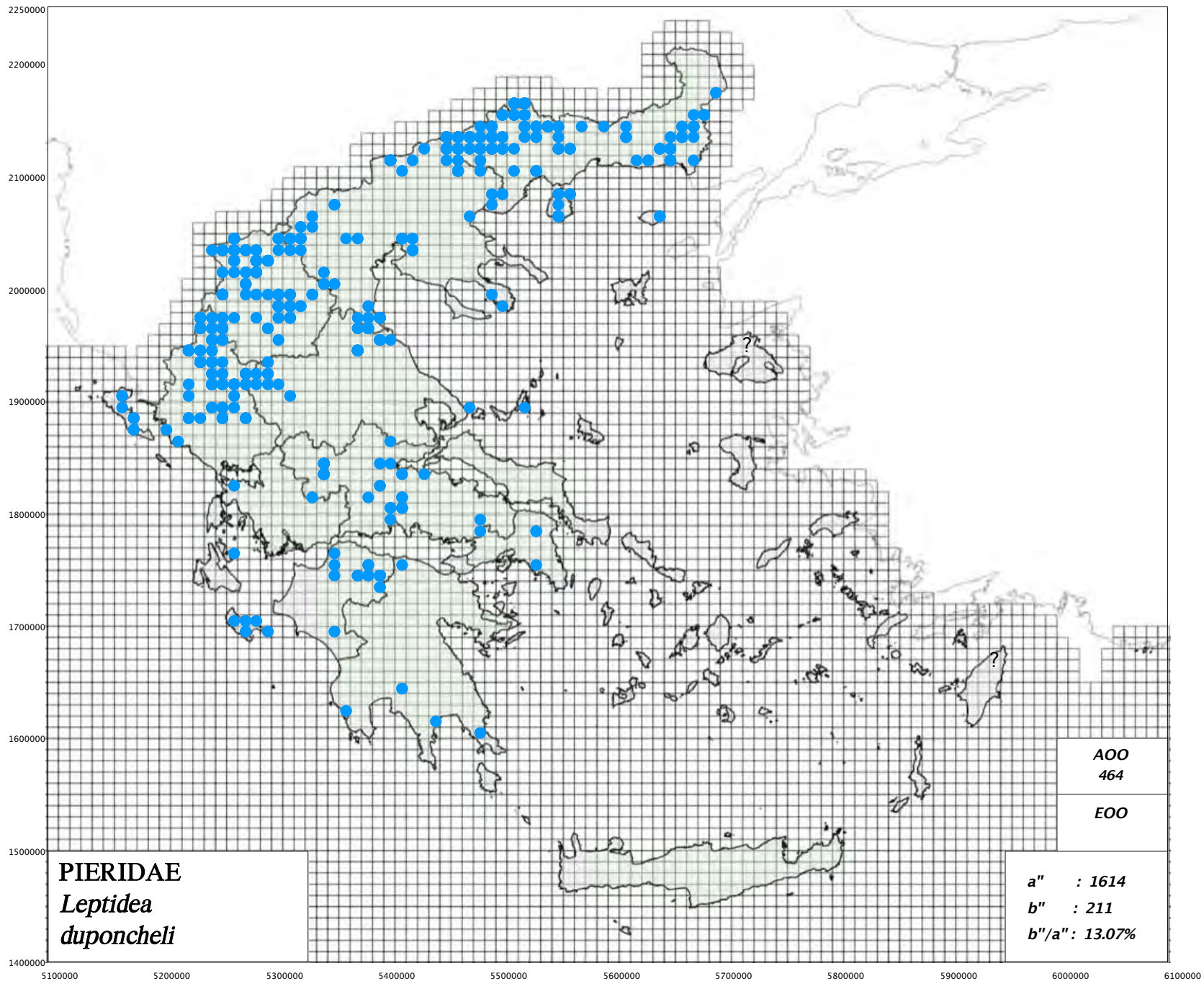


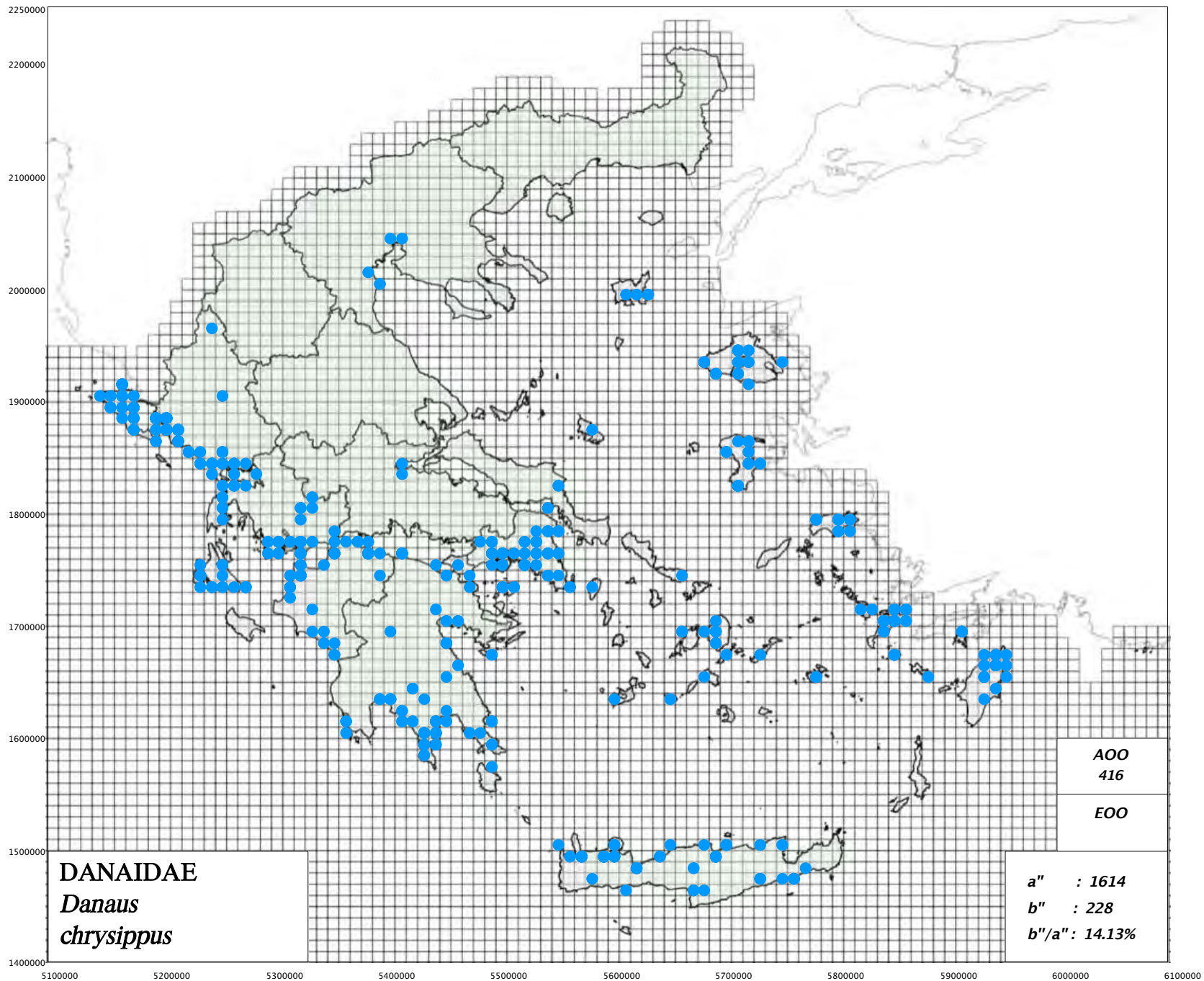
http://www.pamperis.gr/PHOTOGRAPHS/Lepidea_sinapis_juvernica_complex.html

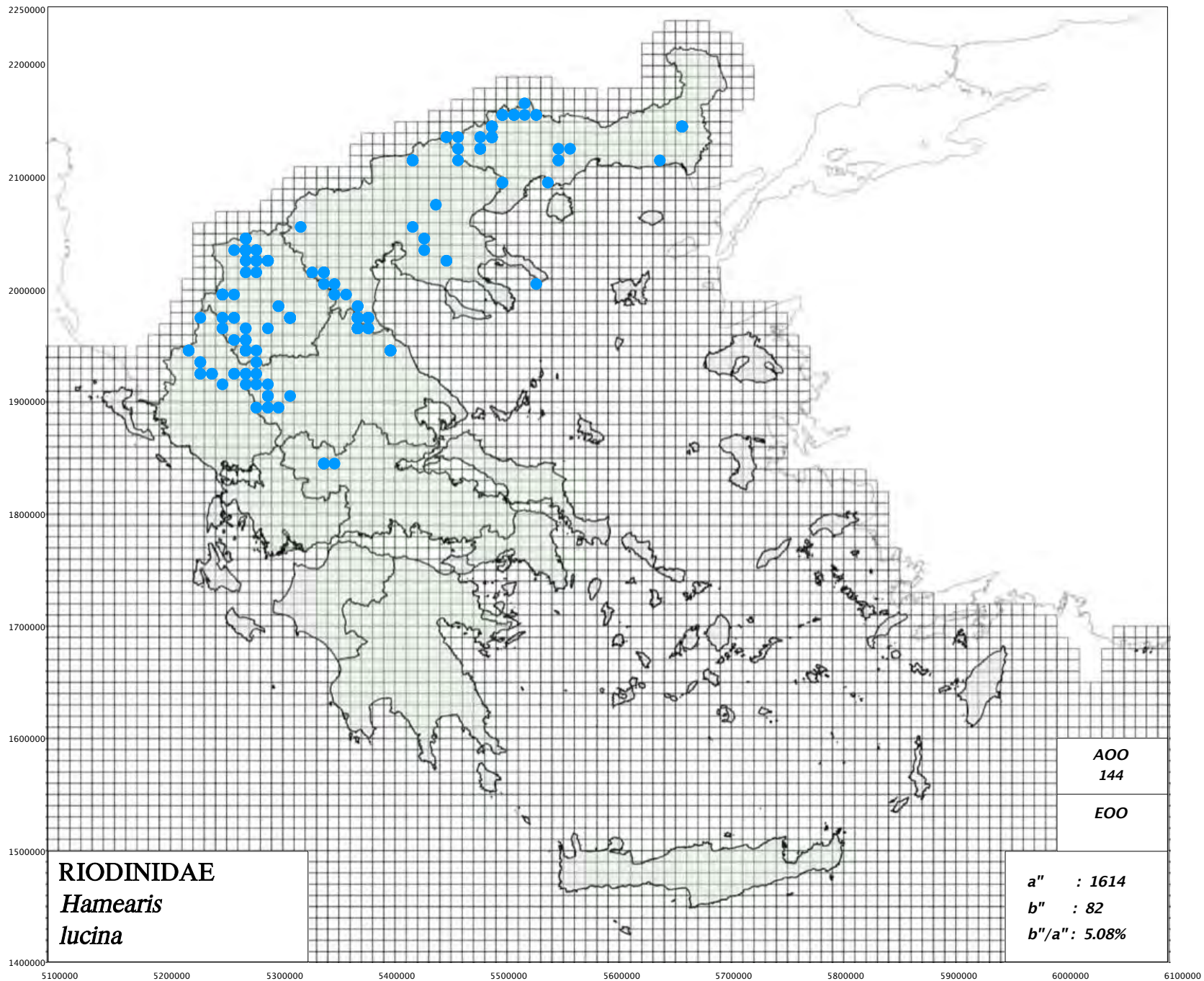
Αμφίβολη αναγνώριση/
Identification Uncertain

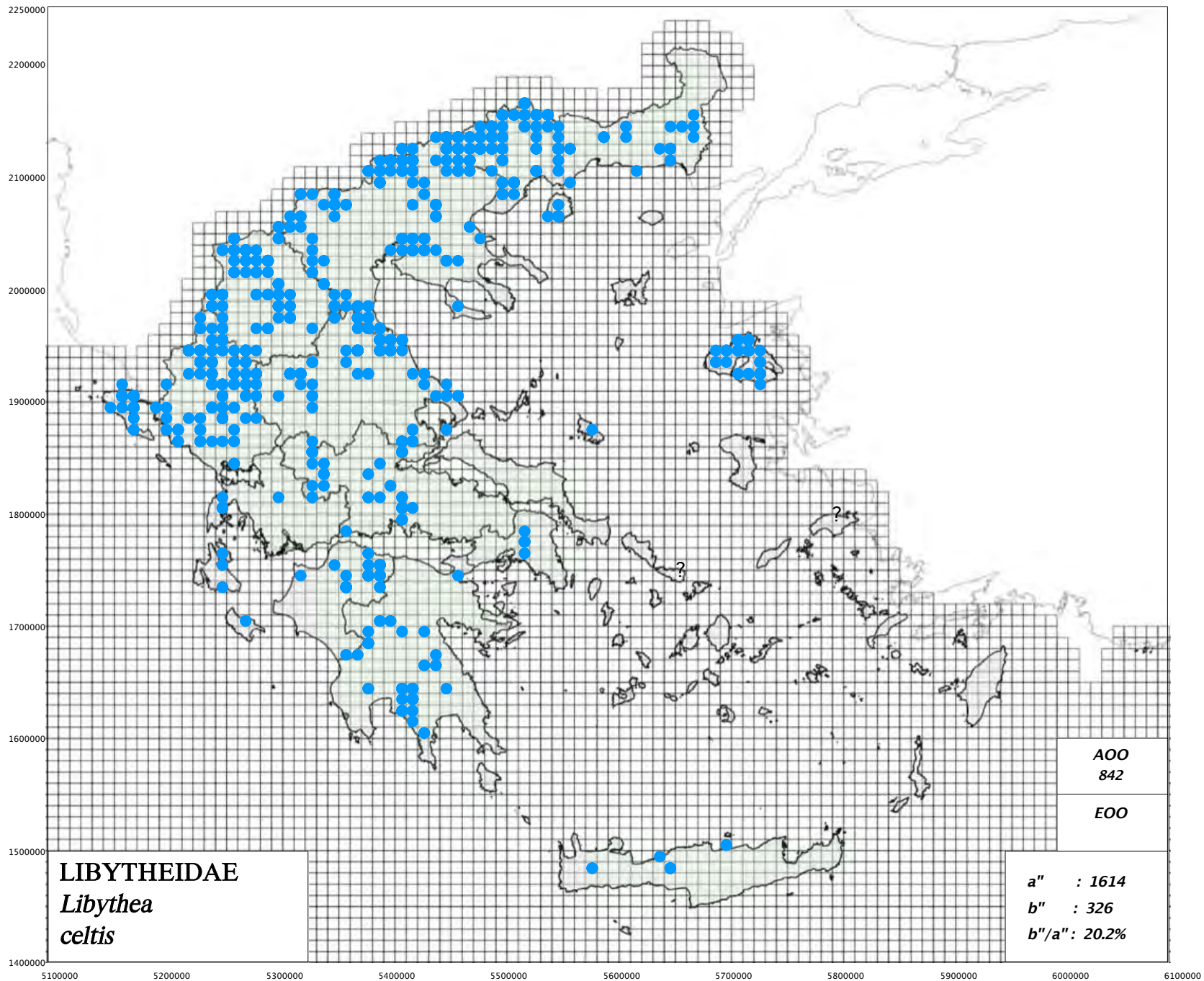


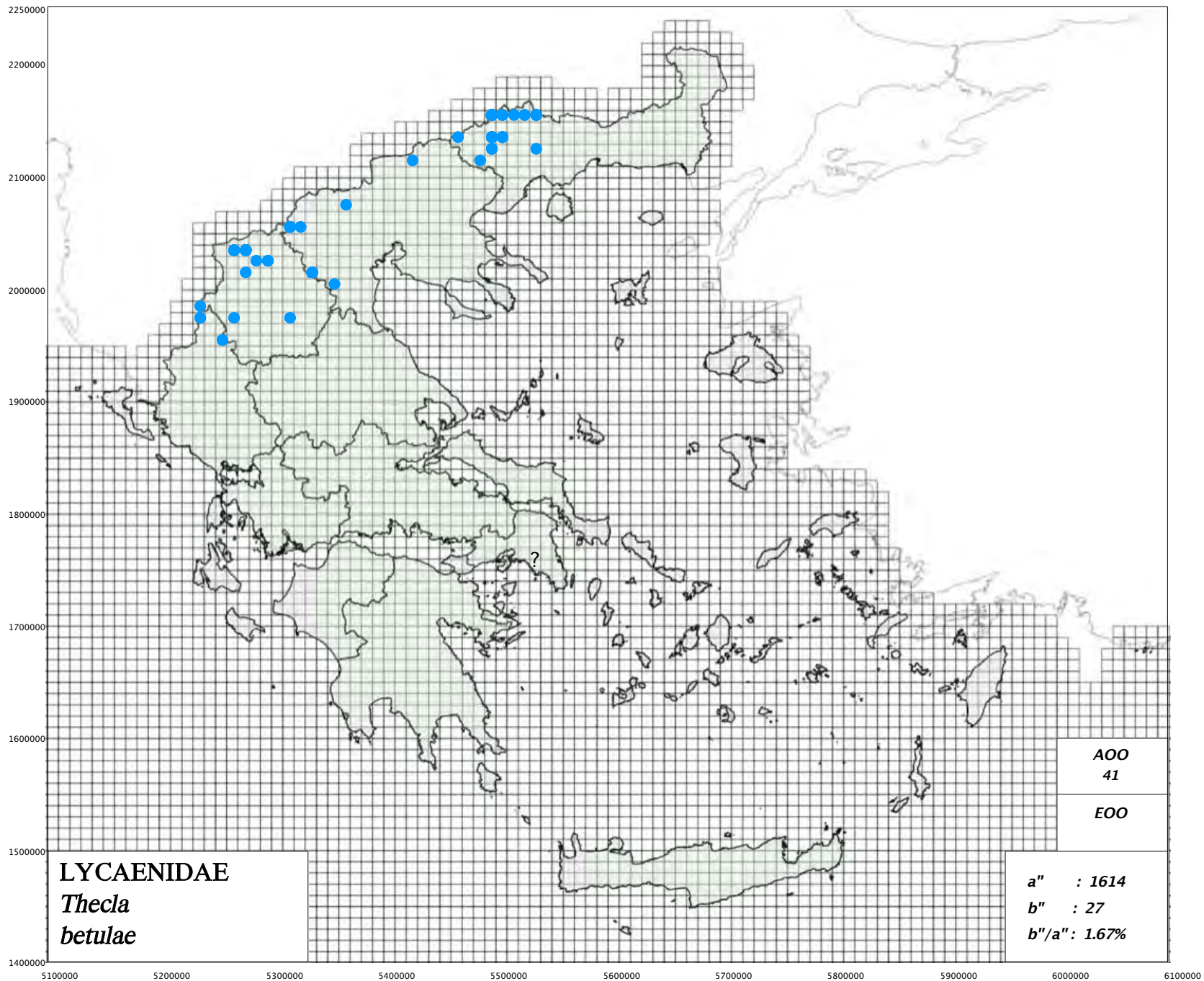
http://www.pamperis.gr/PHOTOGRAPHS/Lepidea_sinapis_juvernica_complex.html

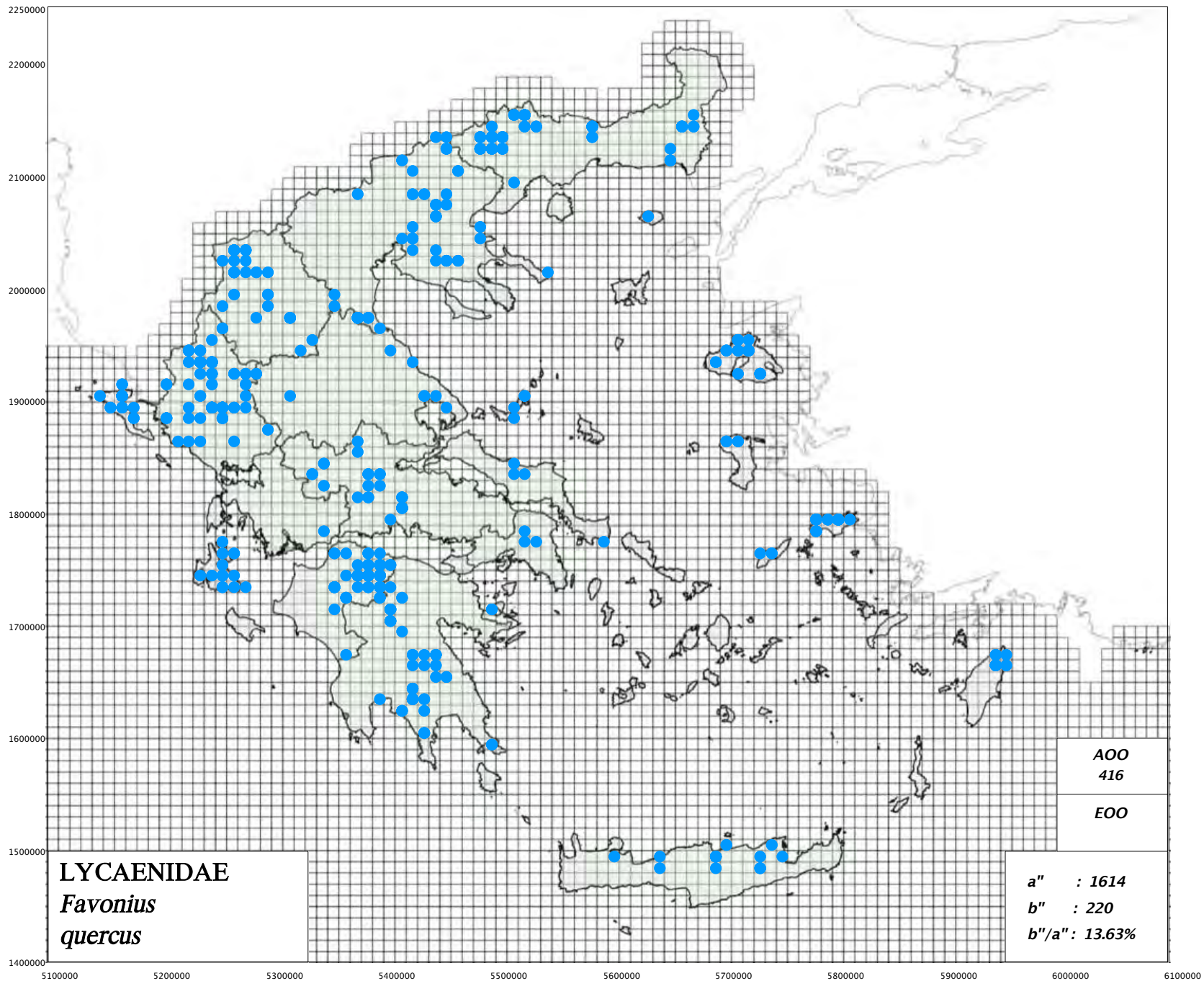


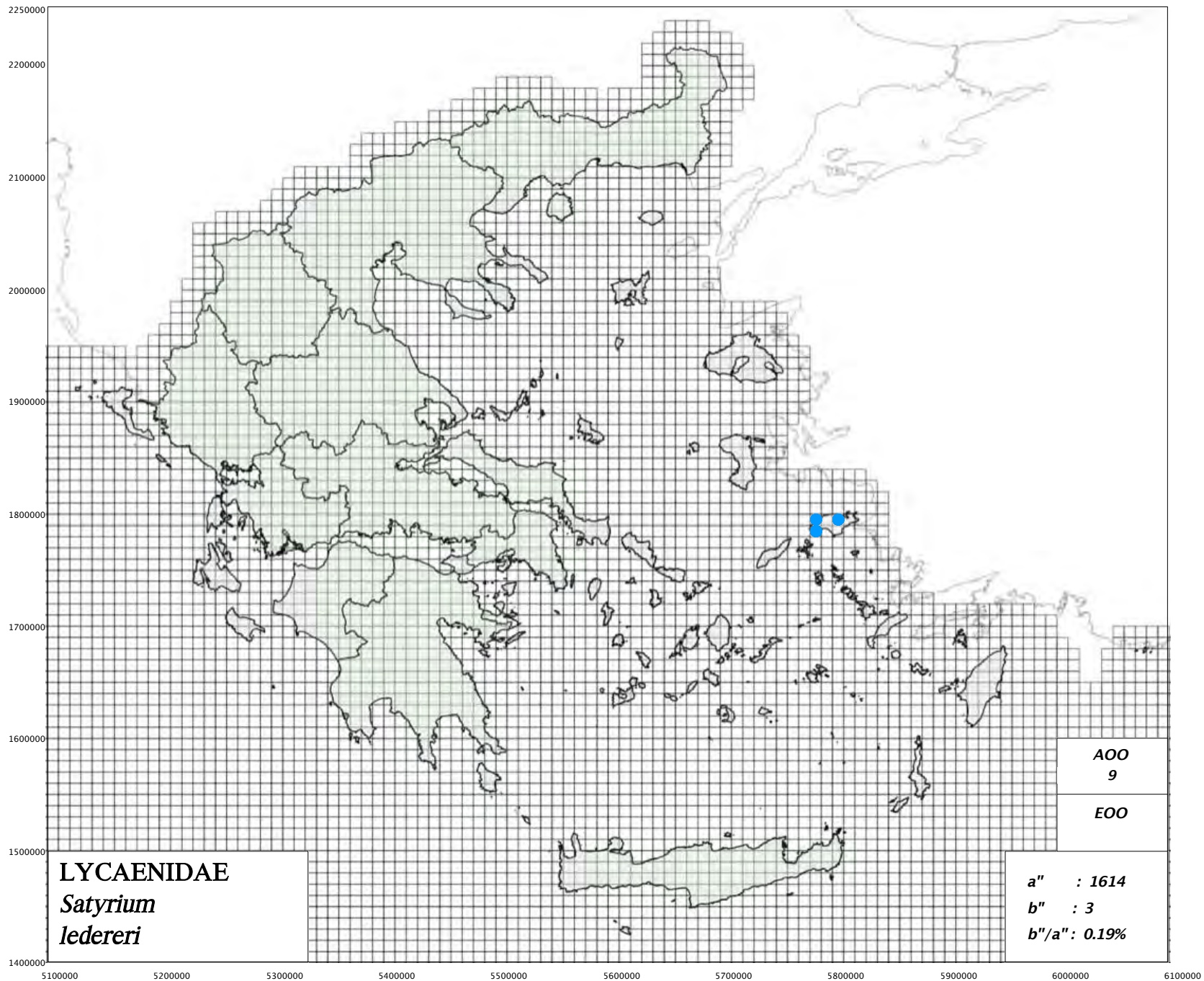


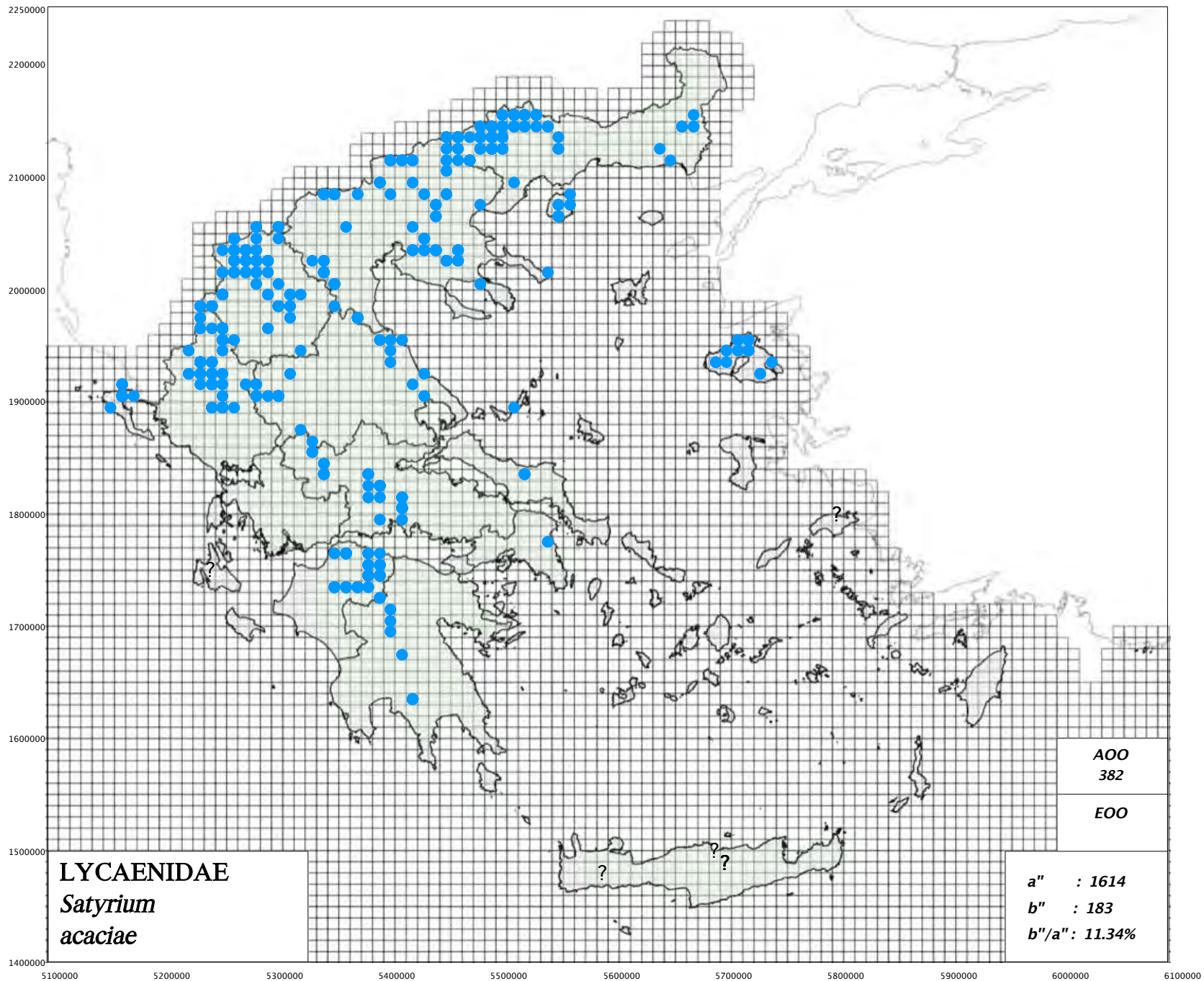


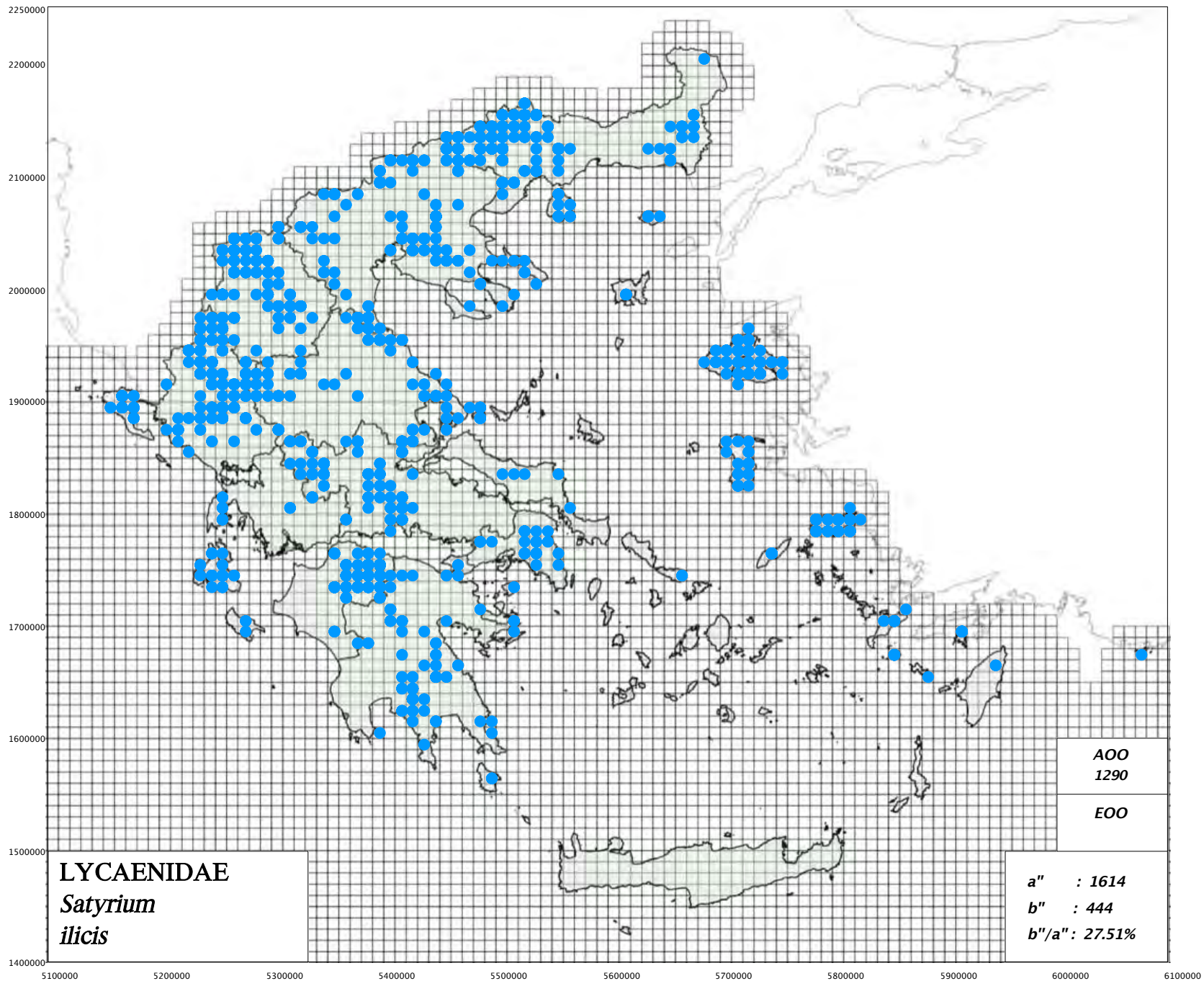


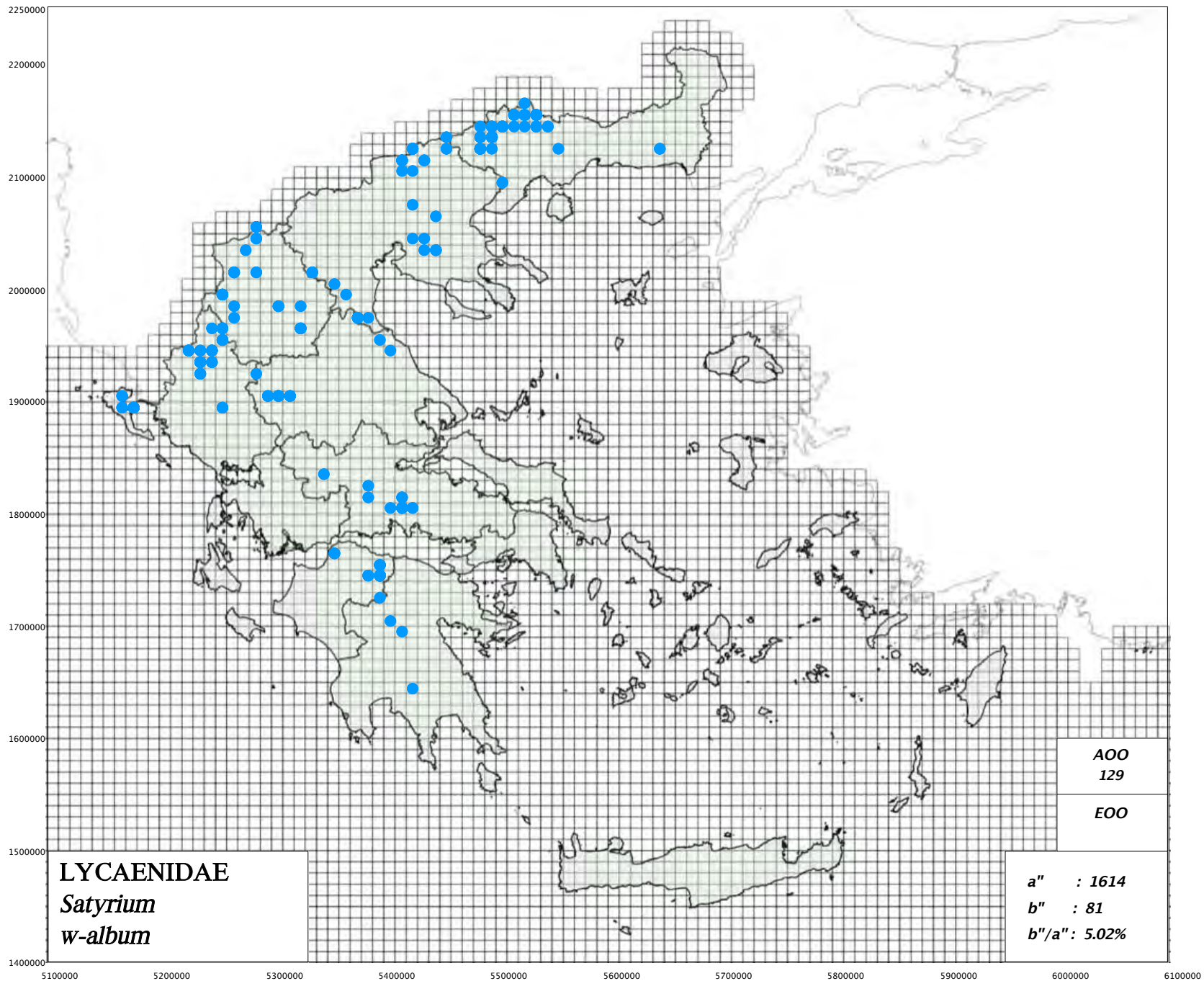


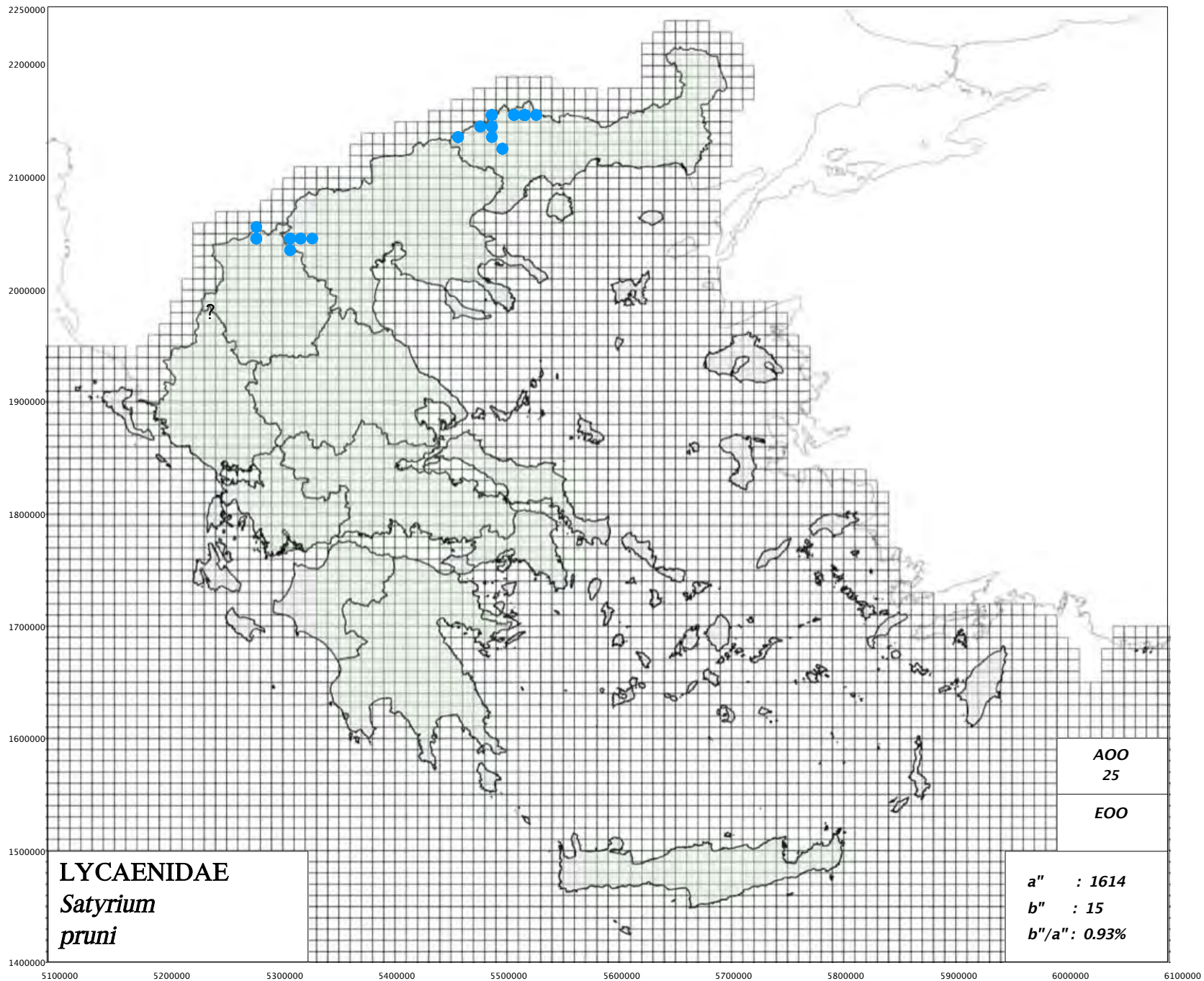


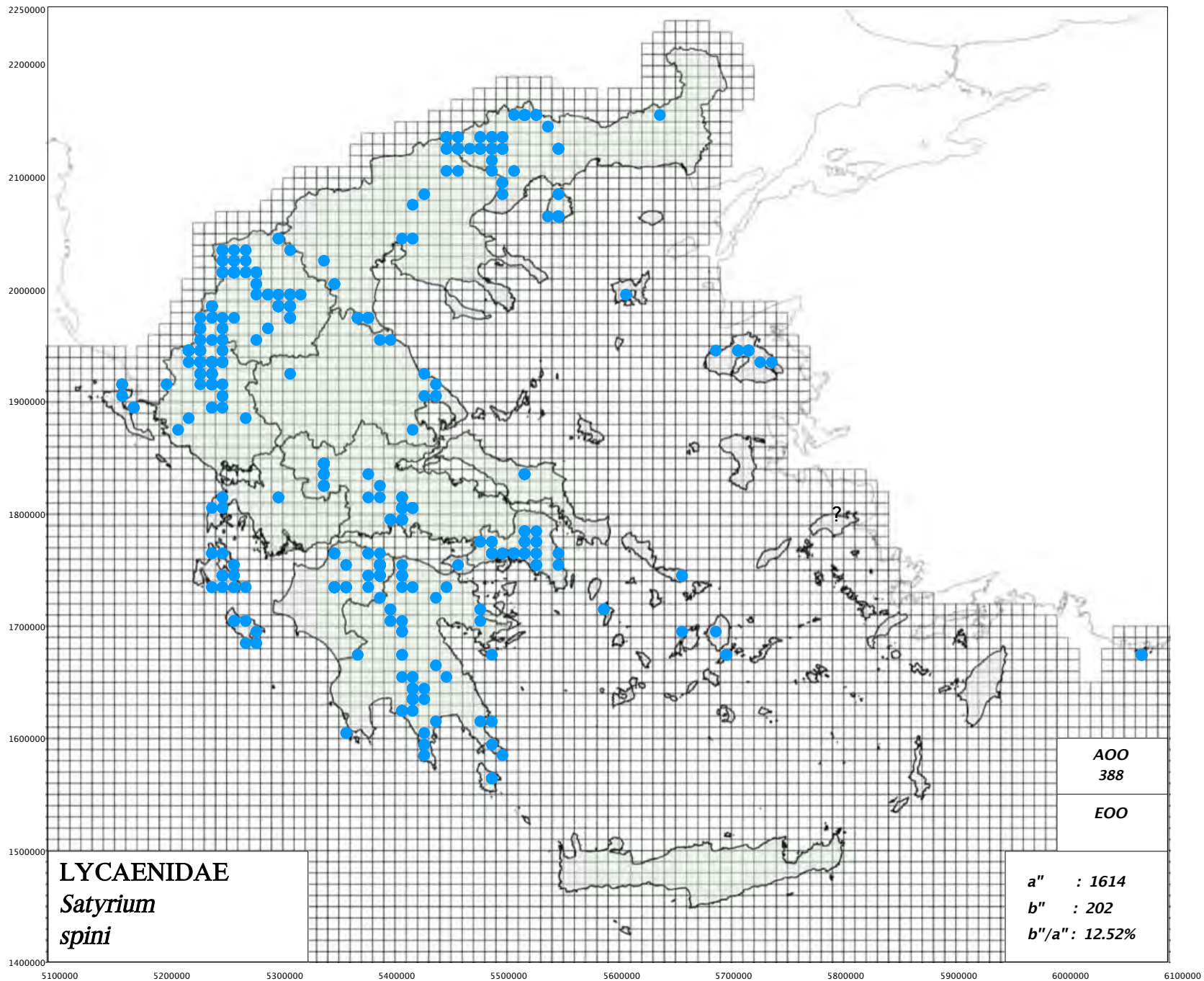


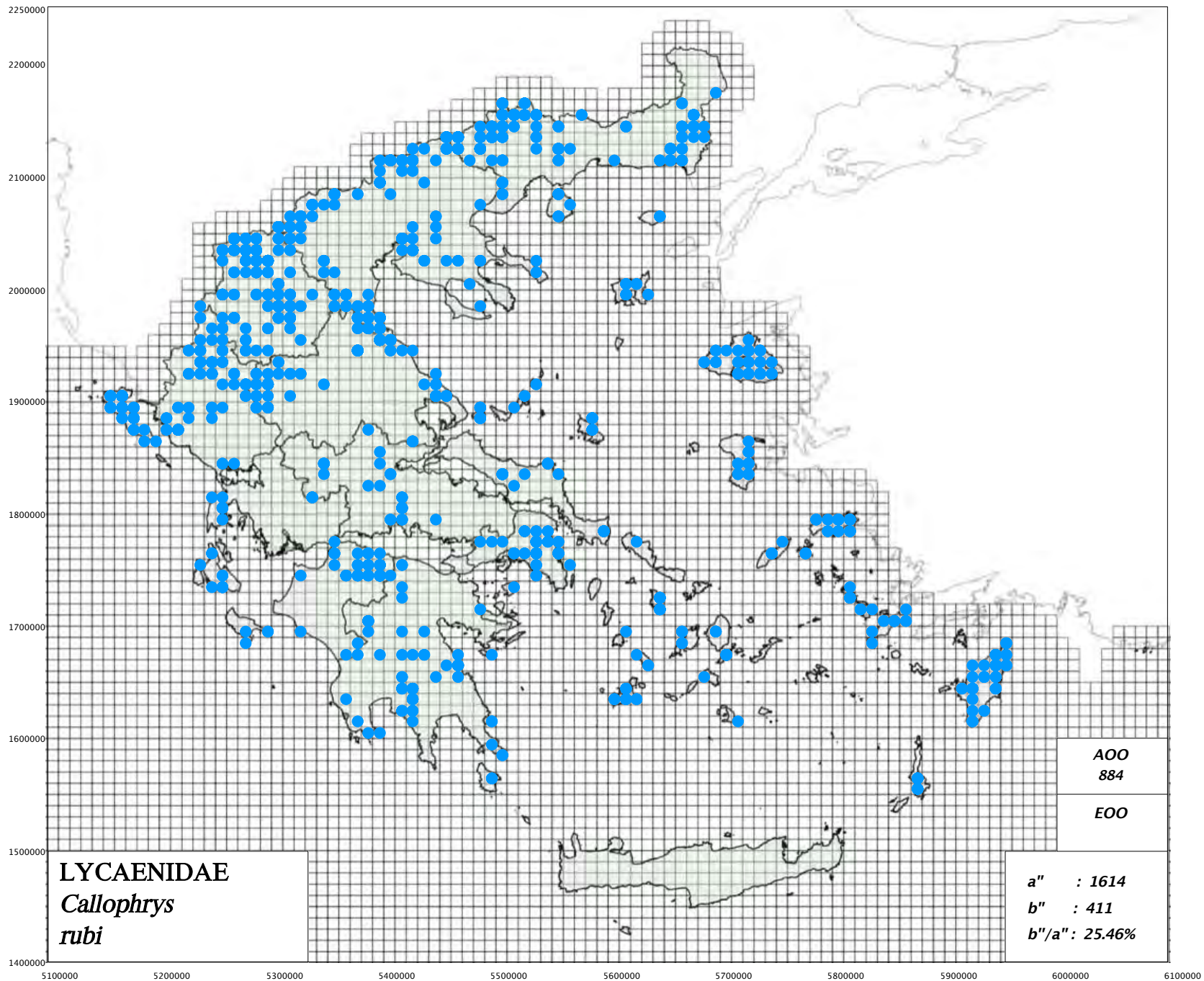


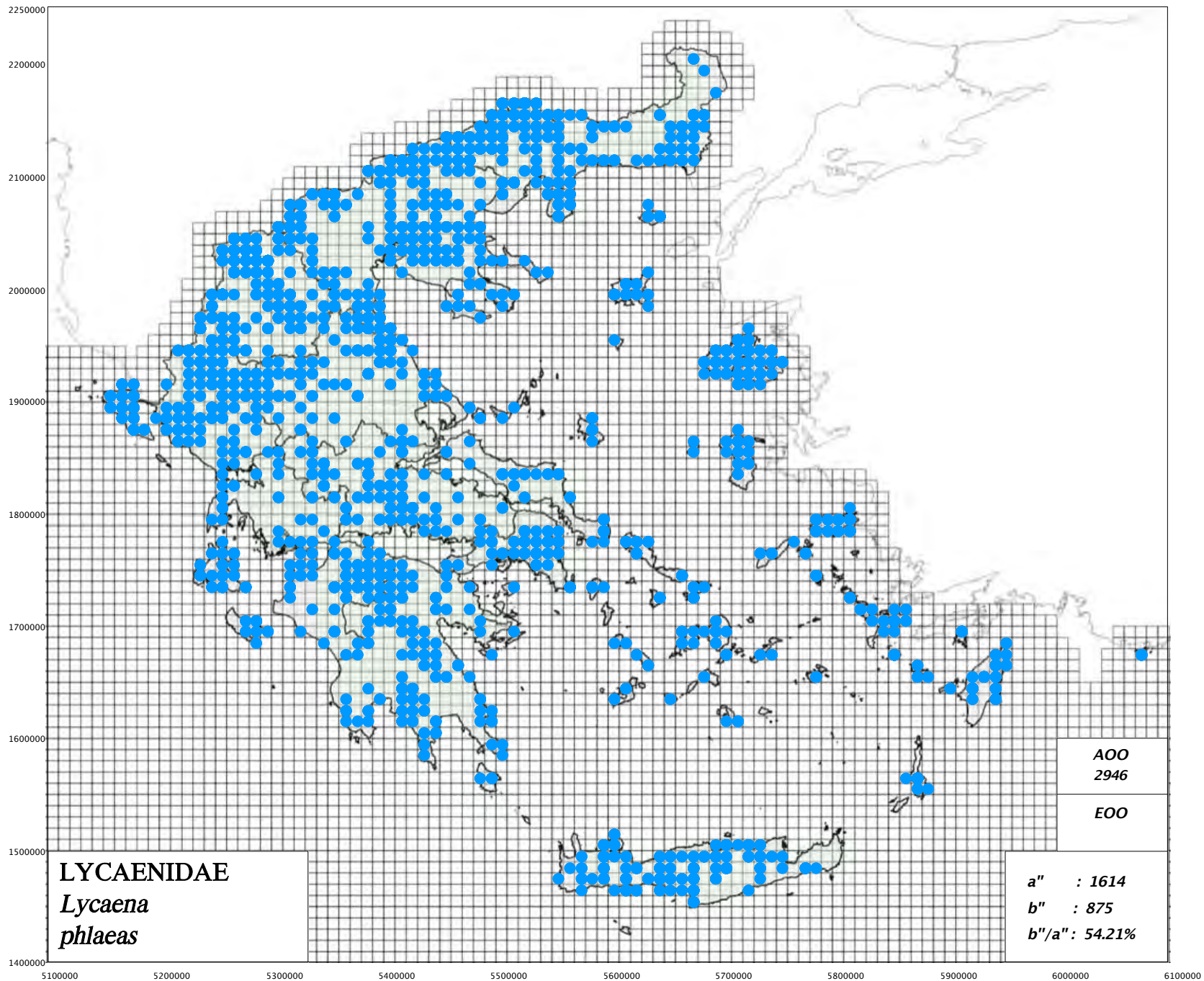




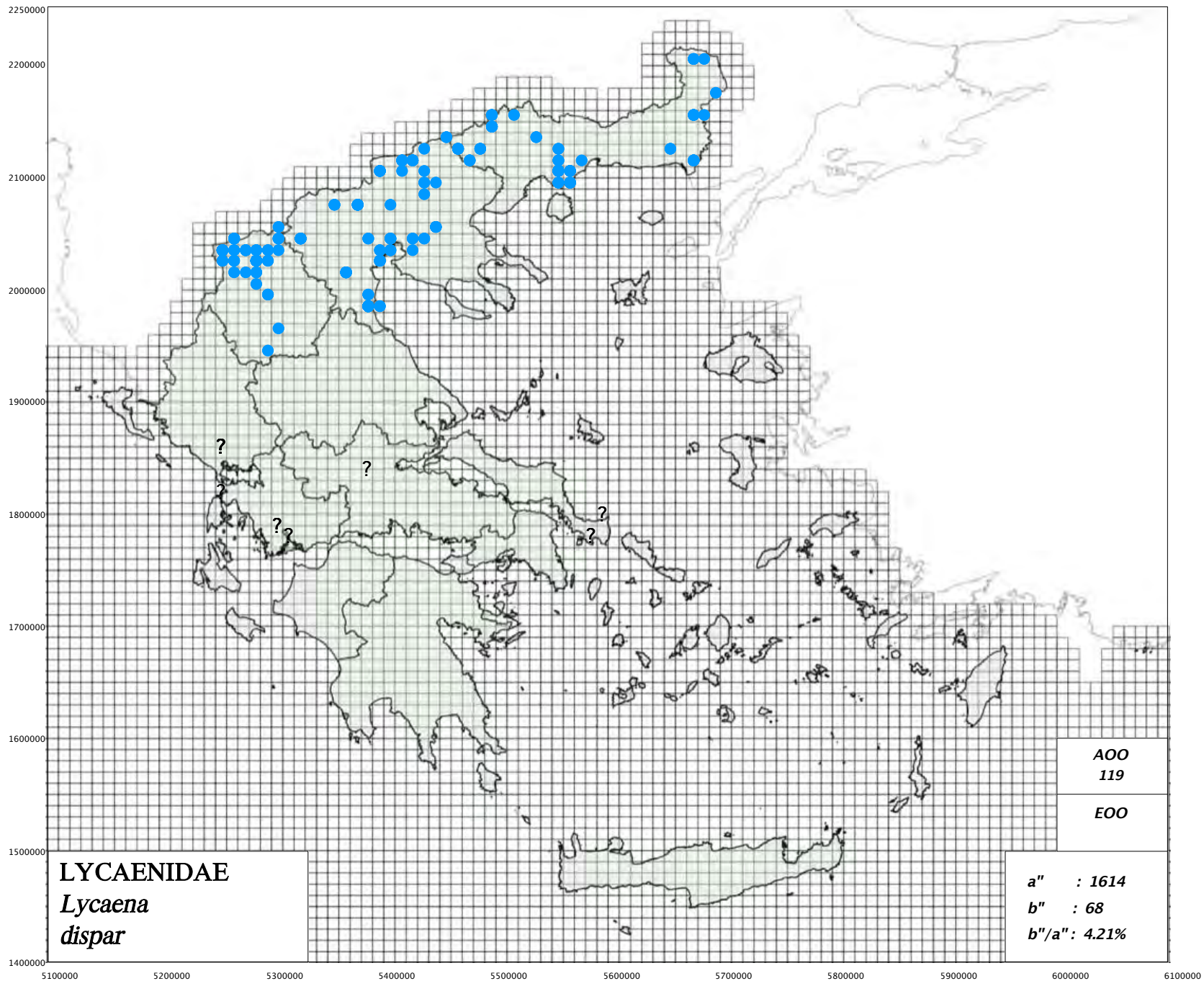




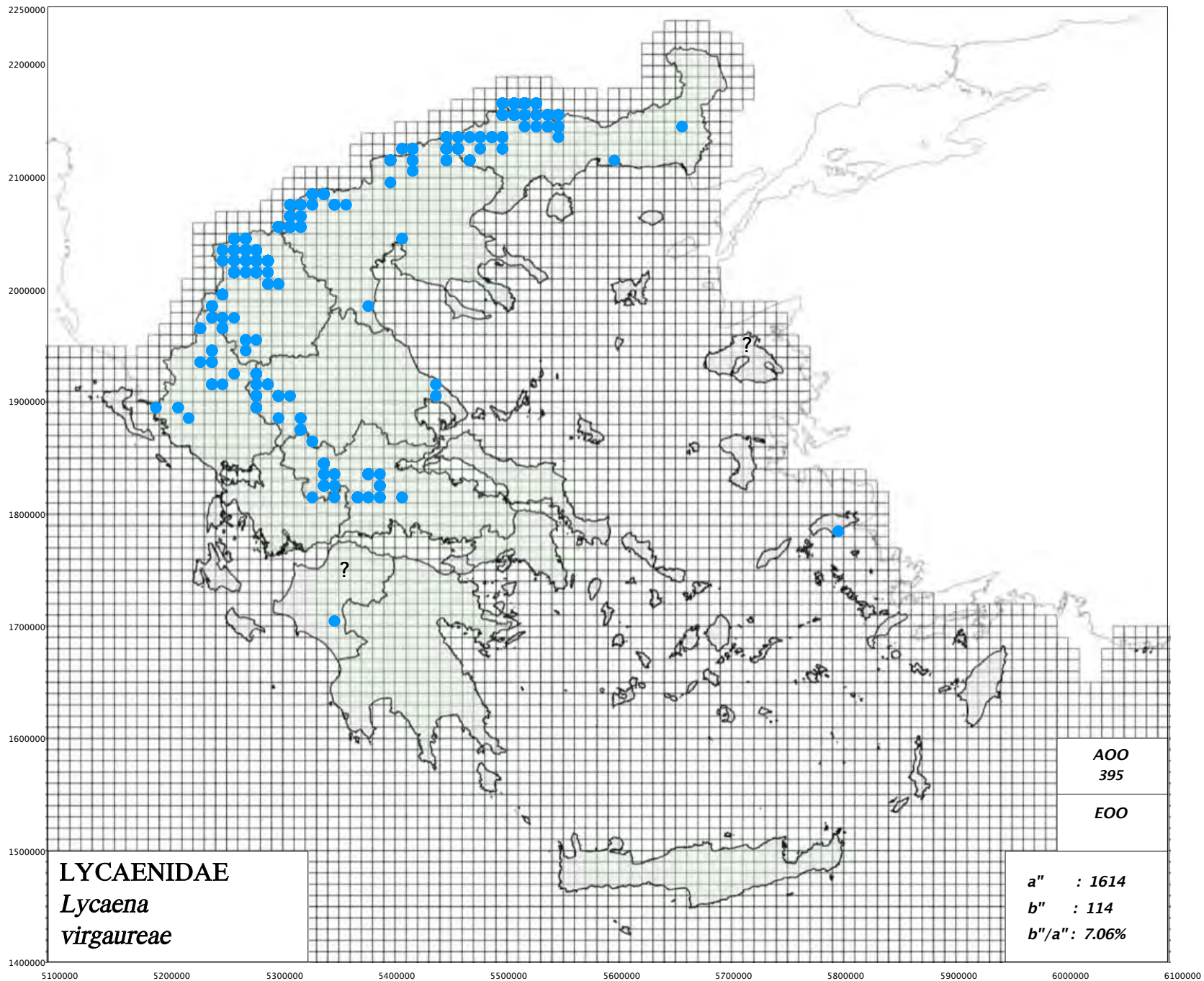


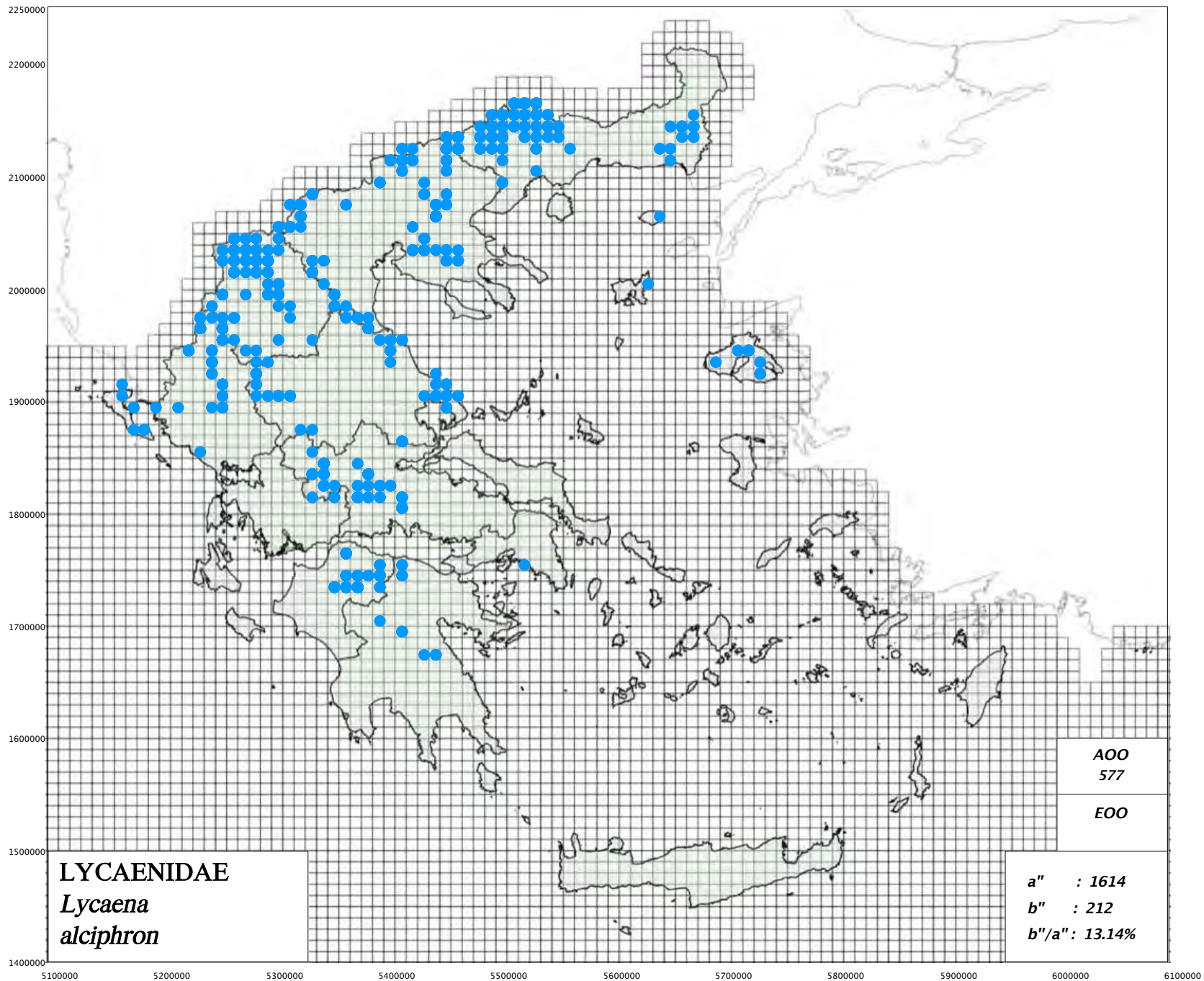


<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

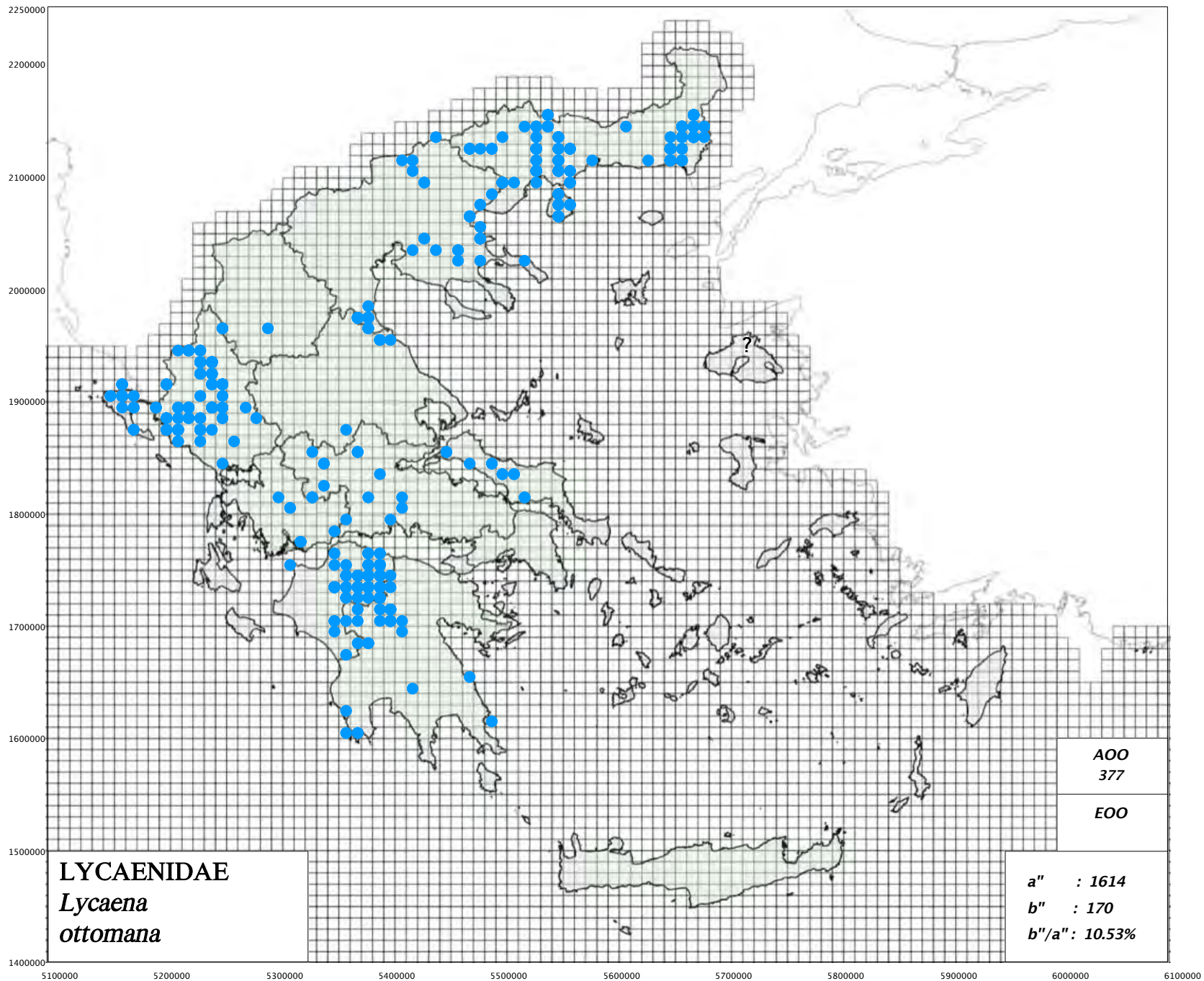


<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

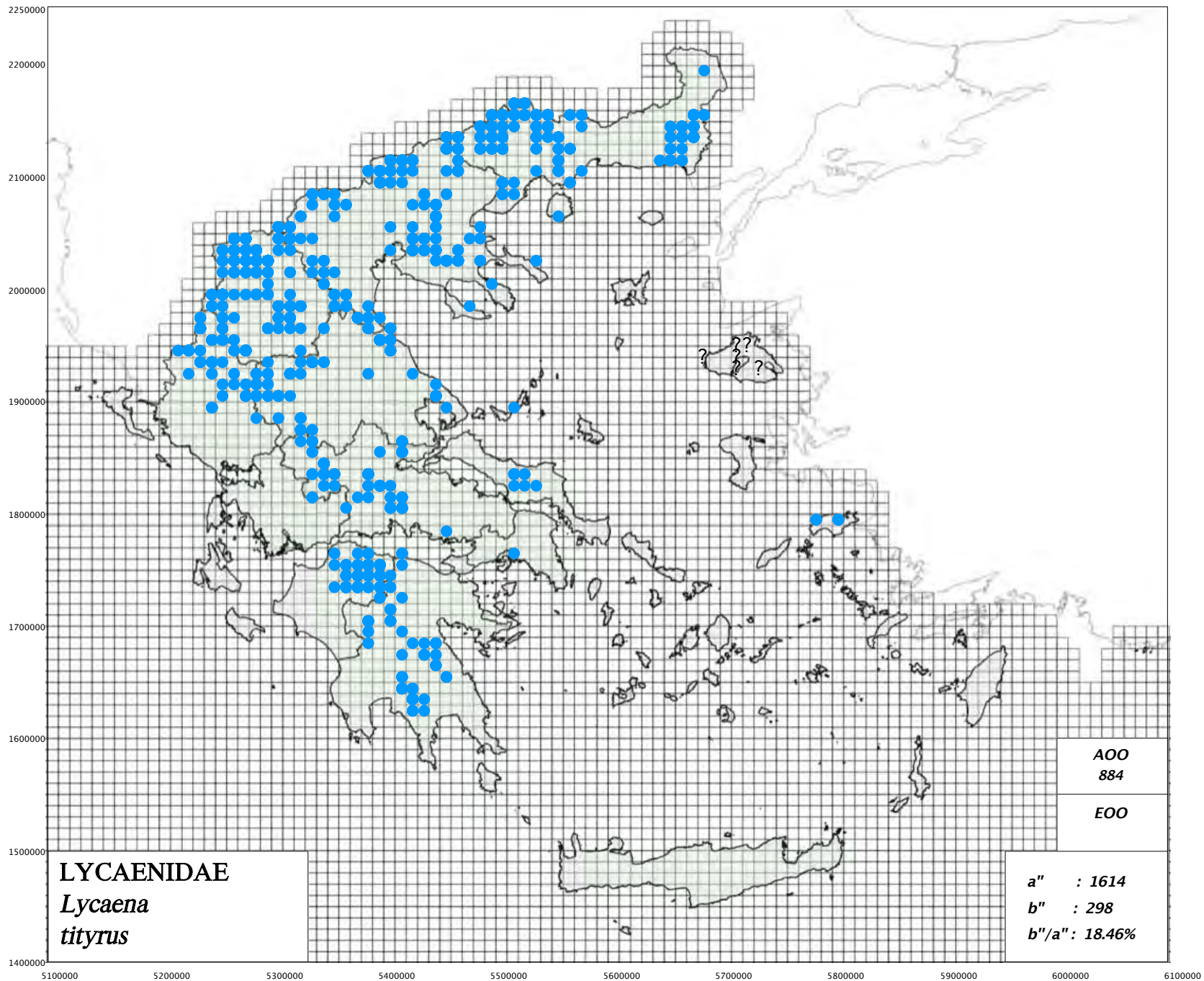




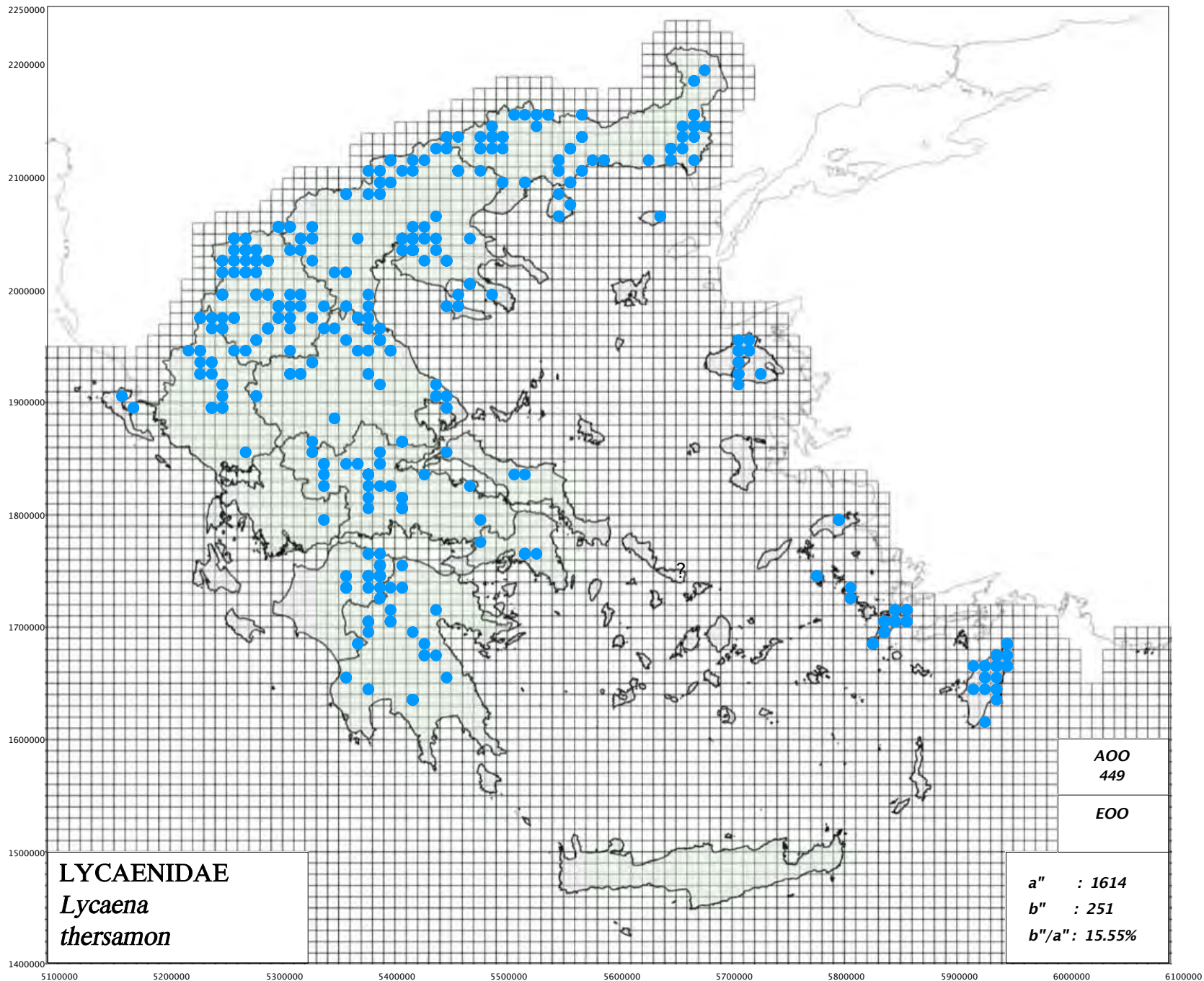
<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>



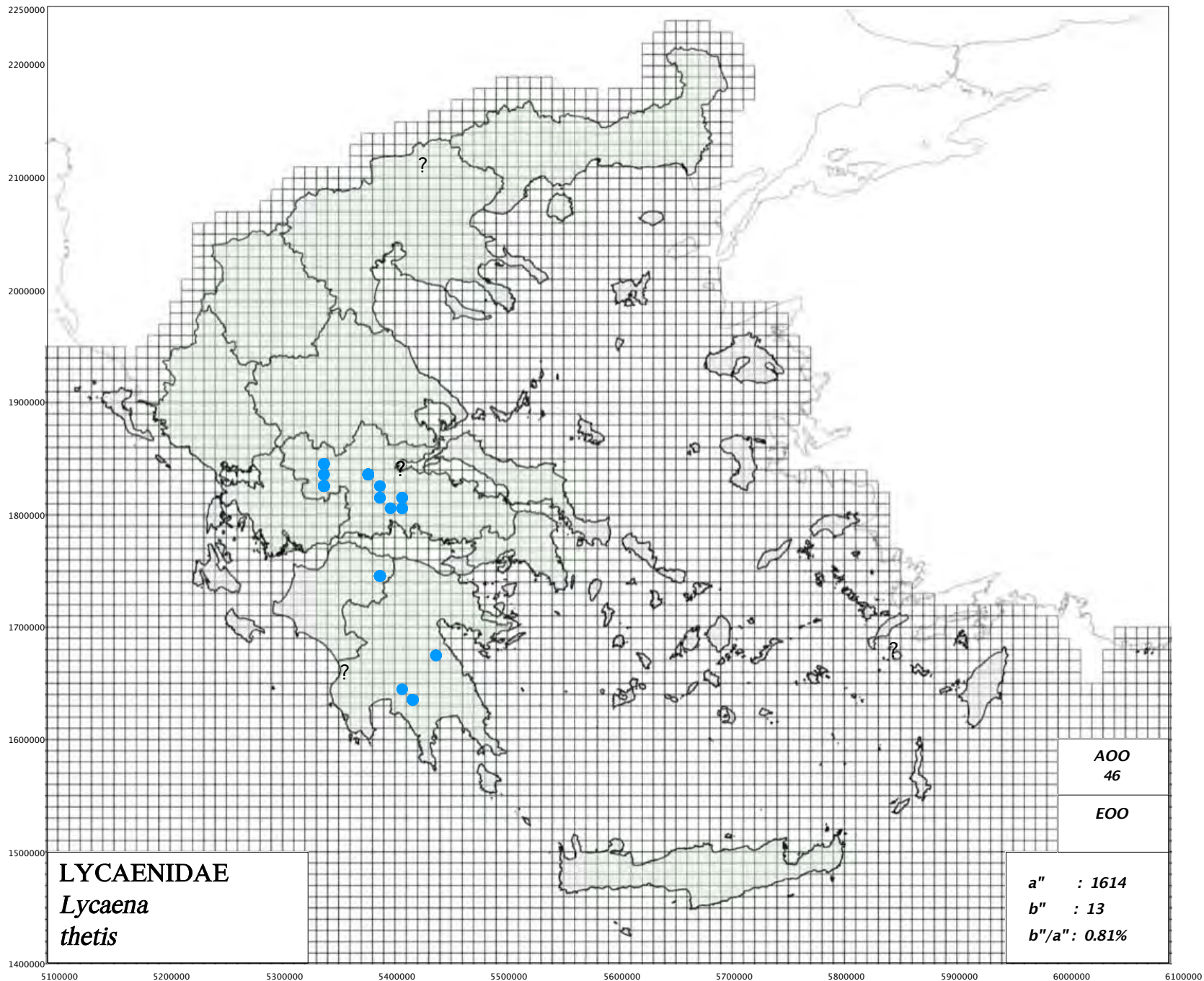
<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>



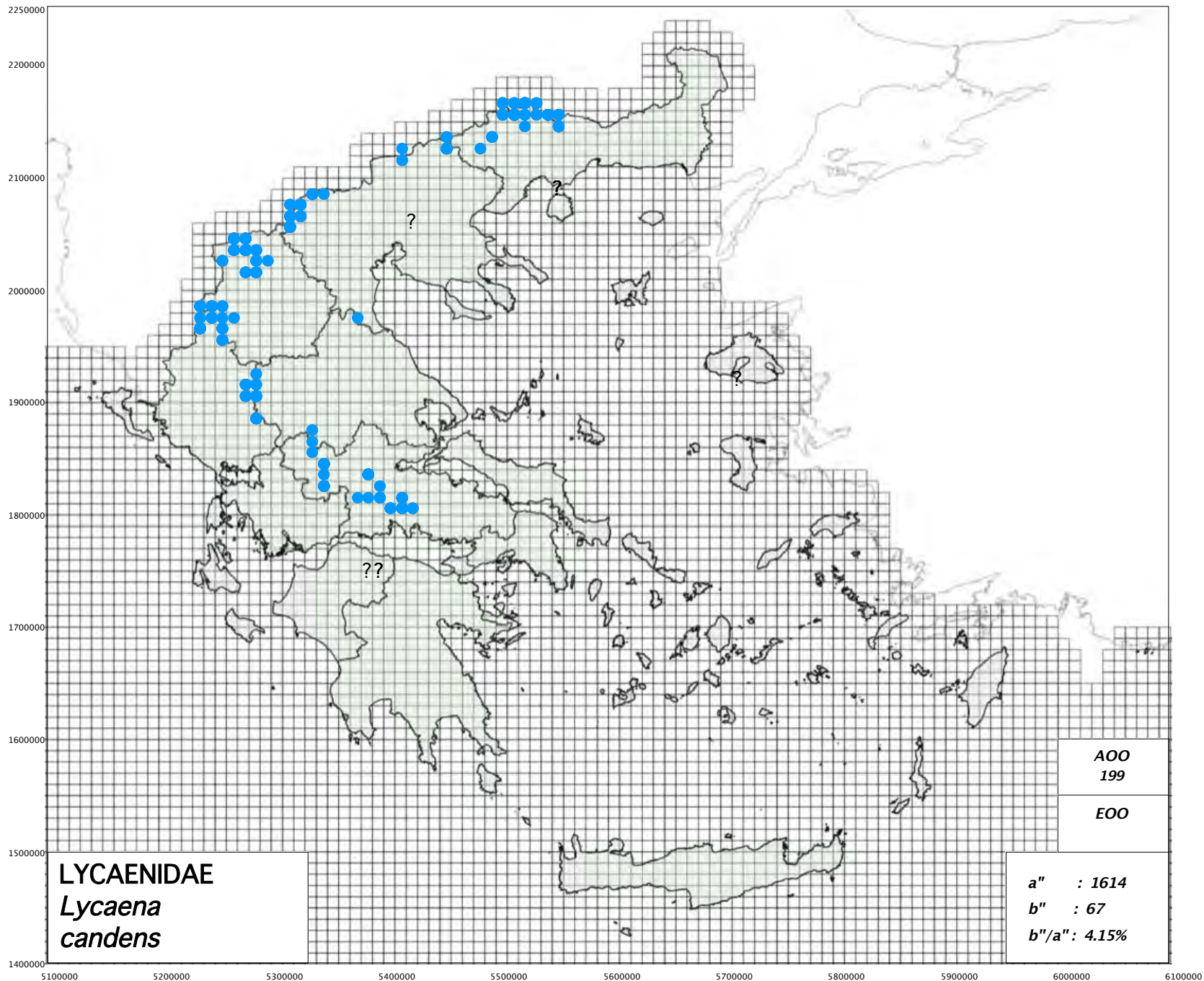
<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

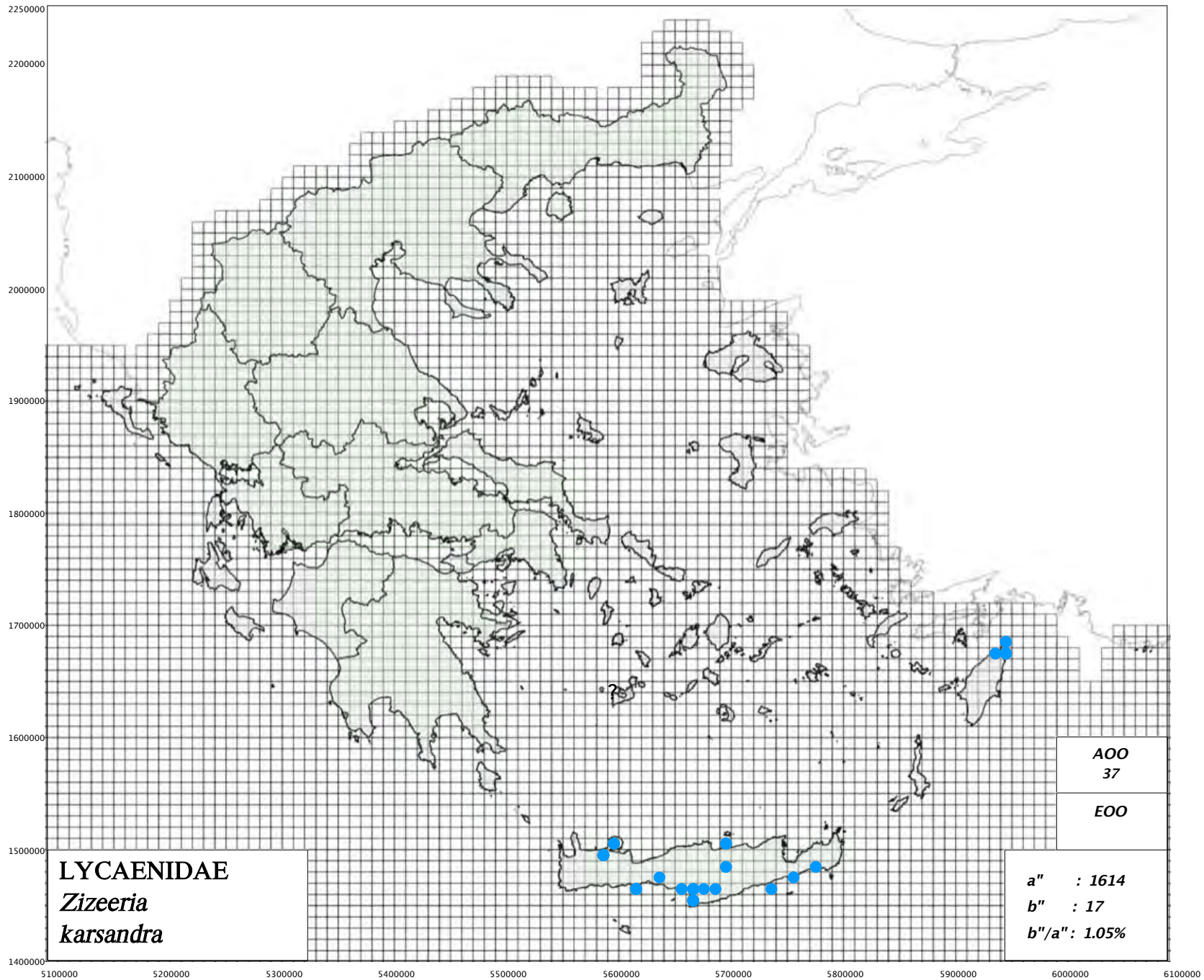


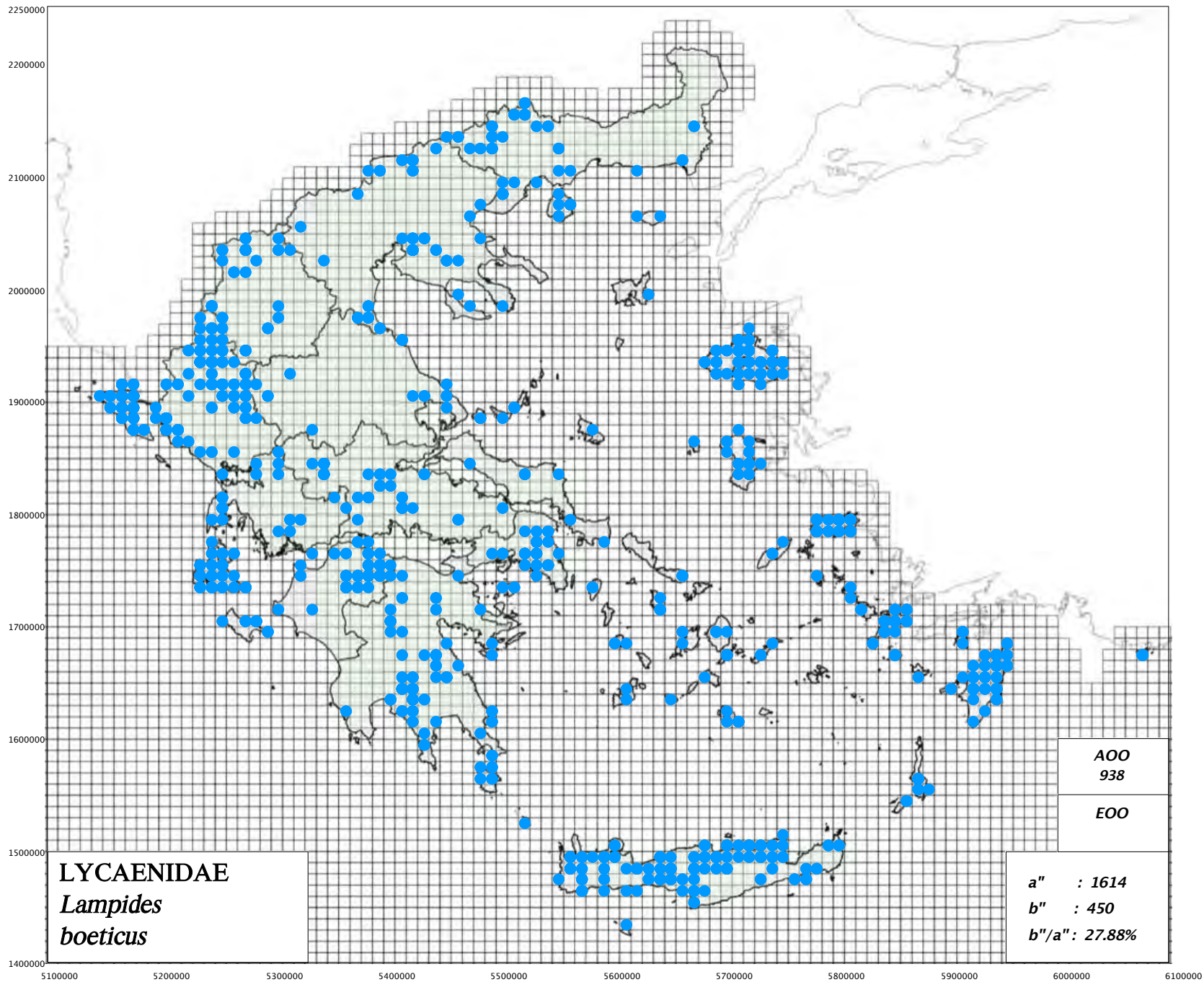
<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

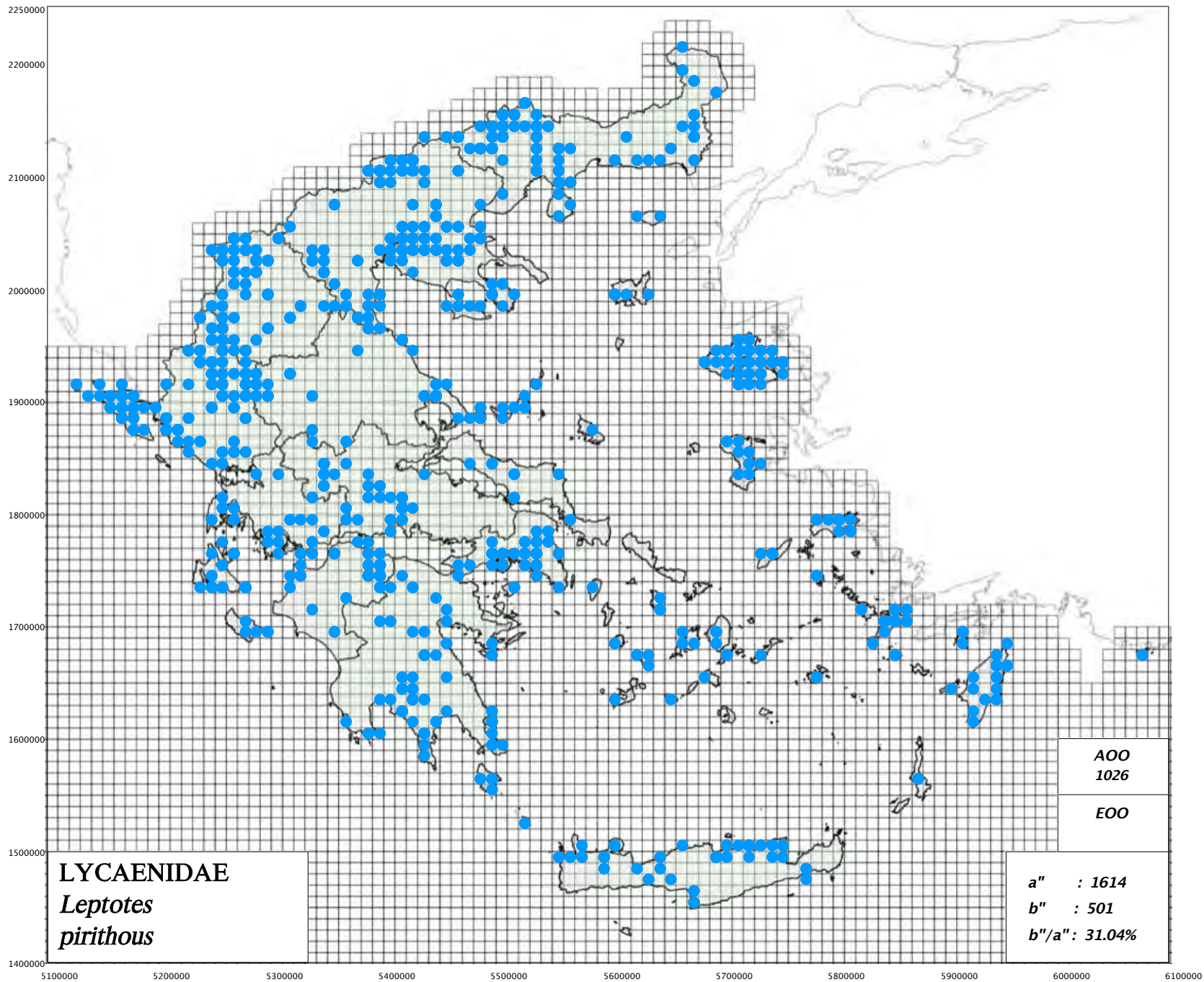


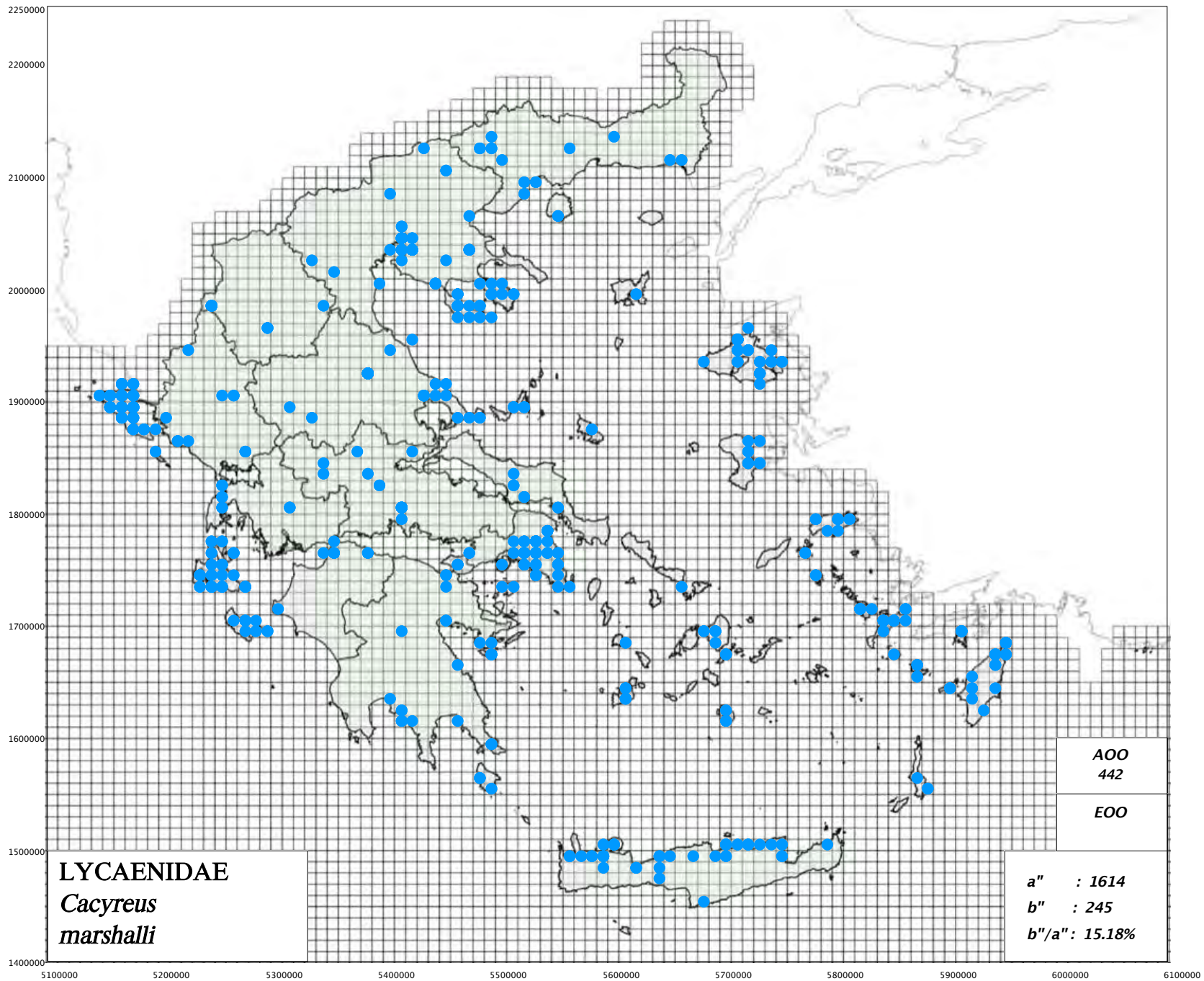
<http://www.pamperis.gr/PHOTOGRAPHS/Lycaena.html>

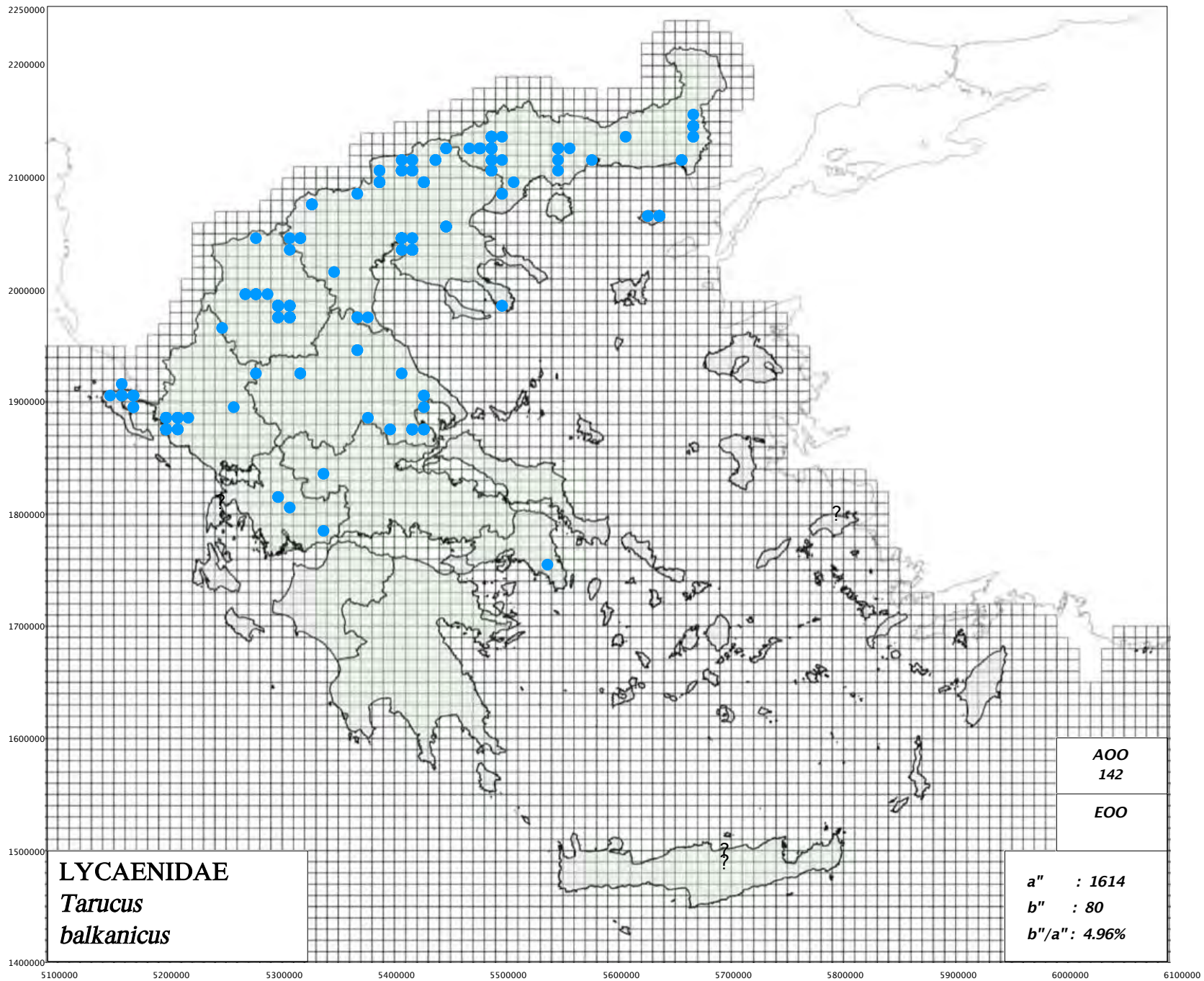


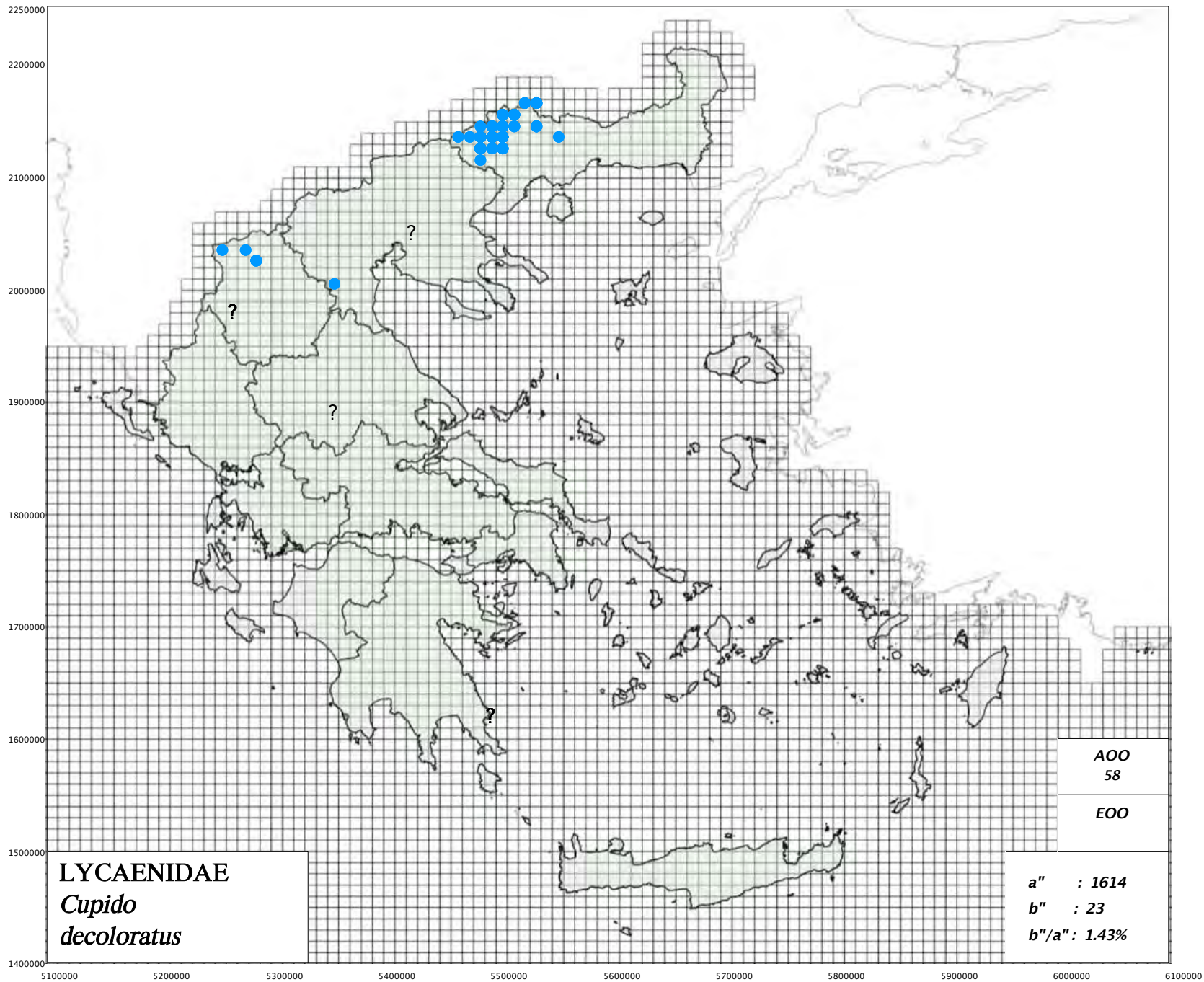


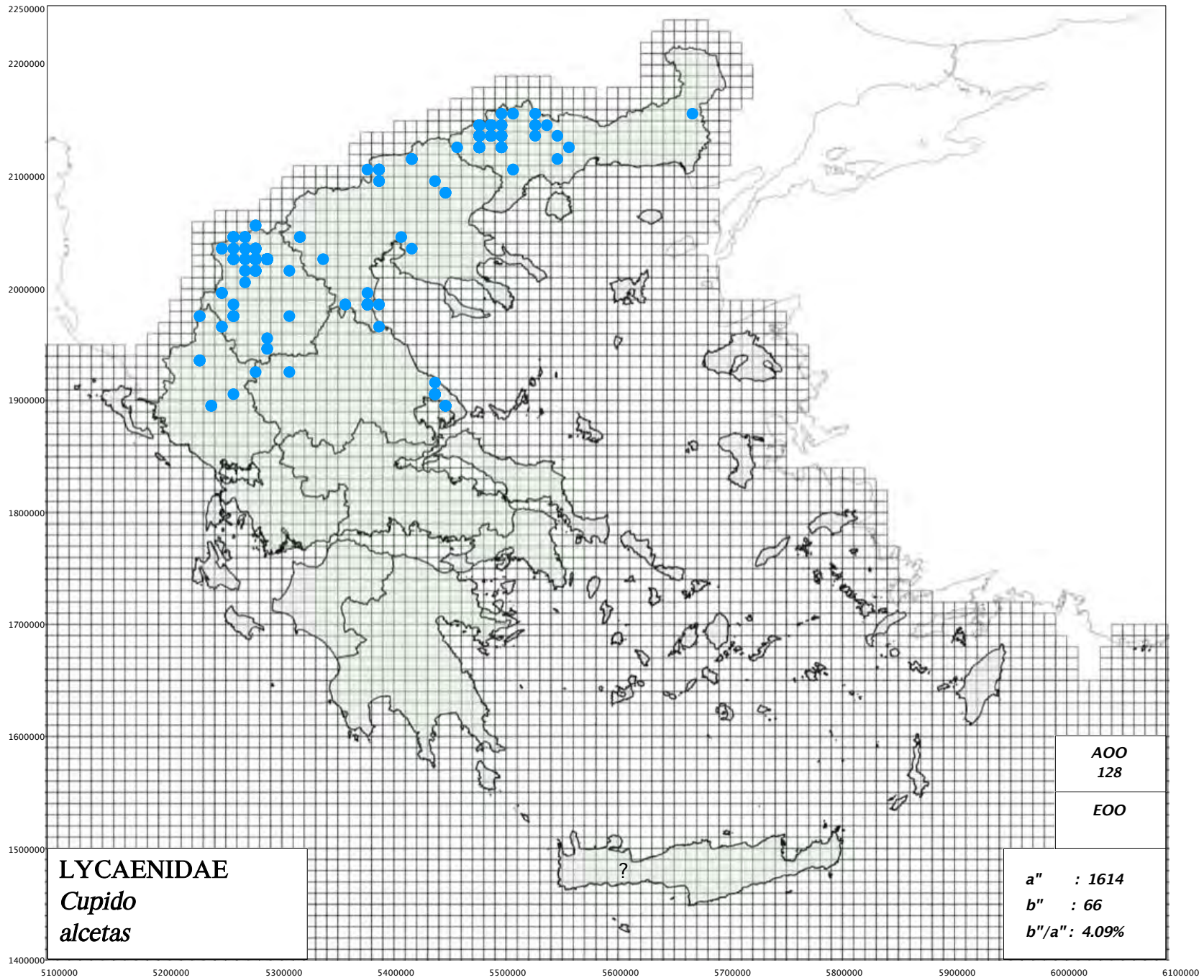


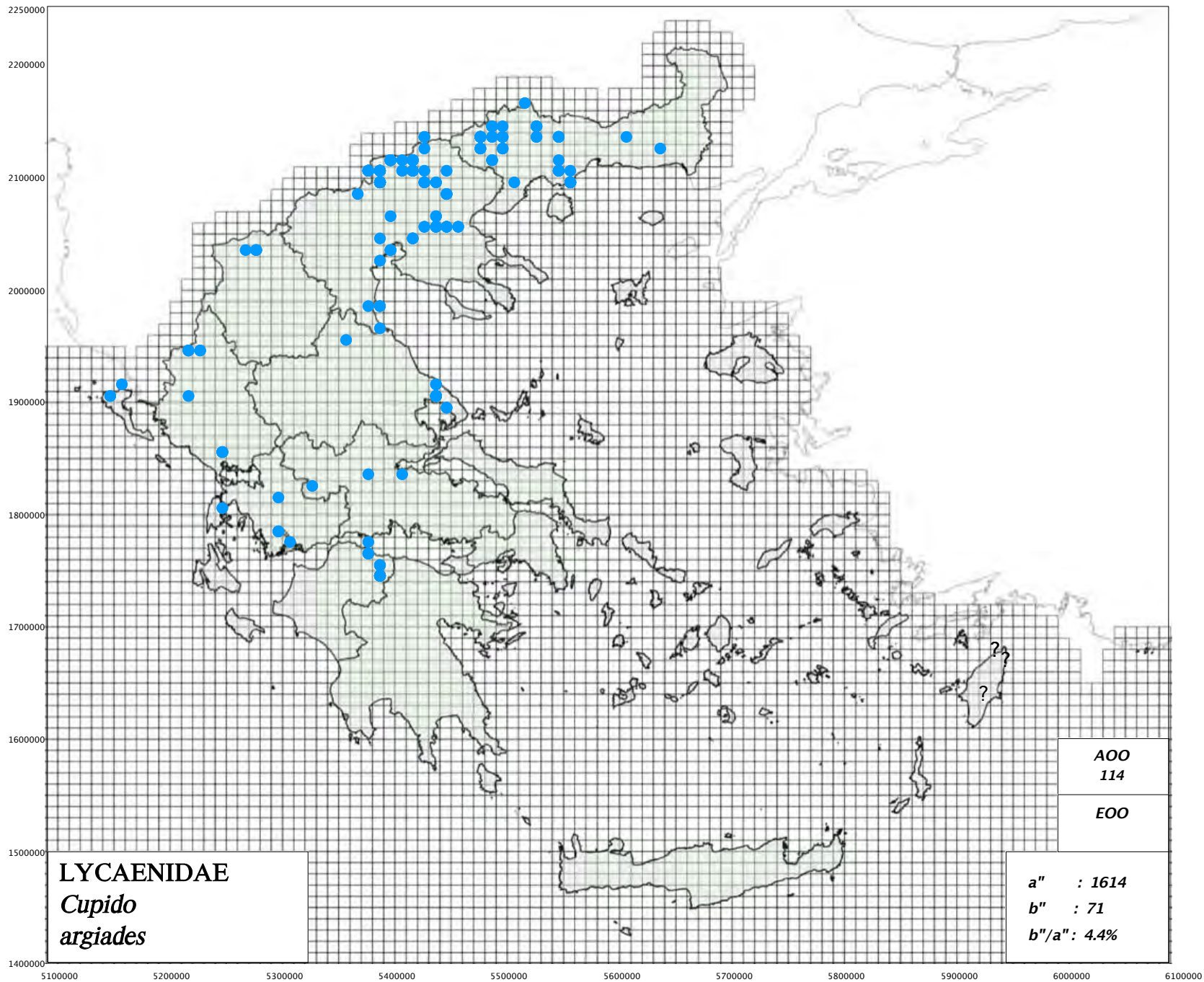


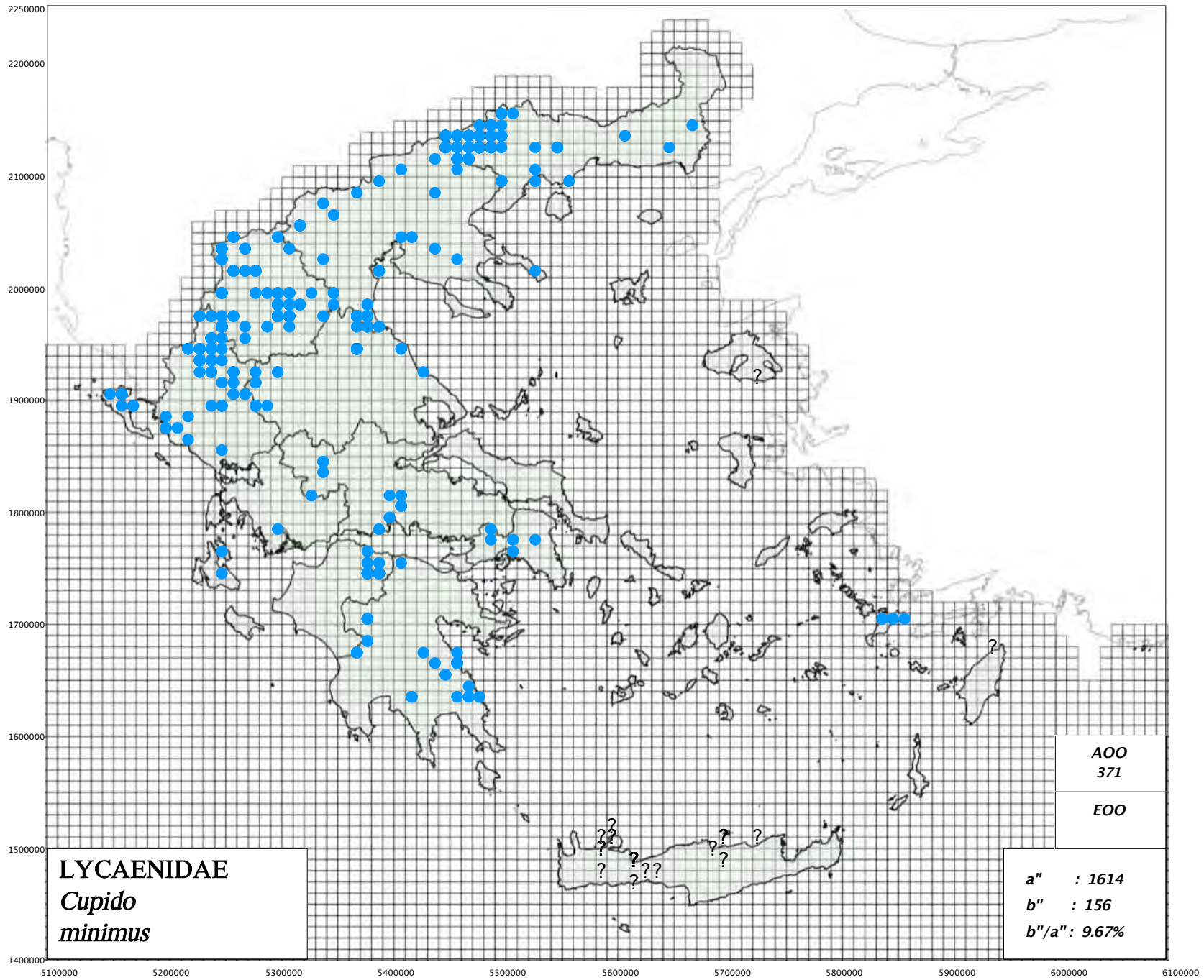


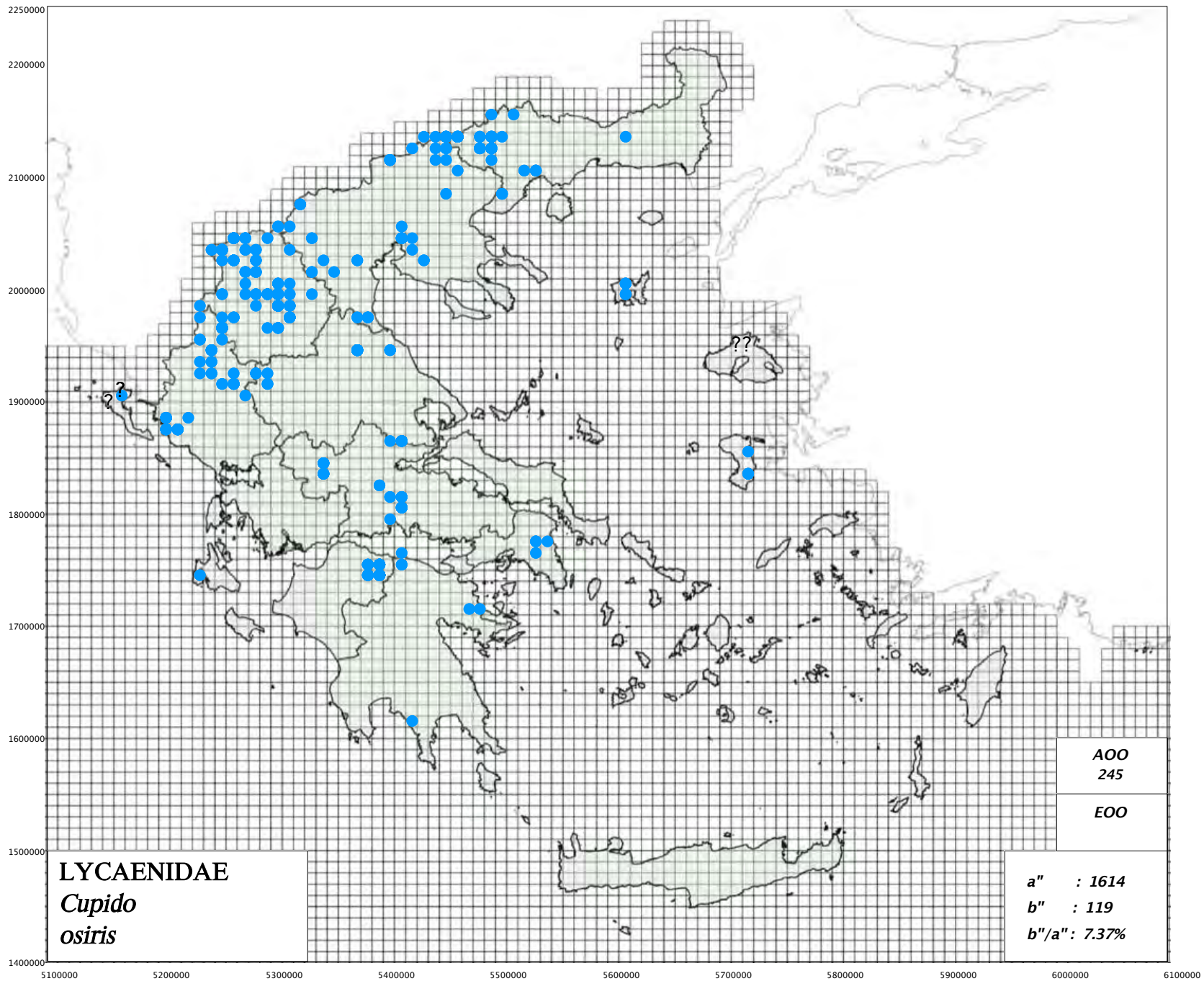


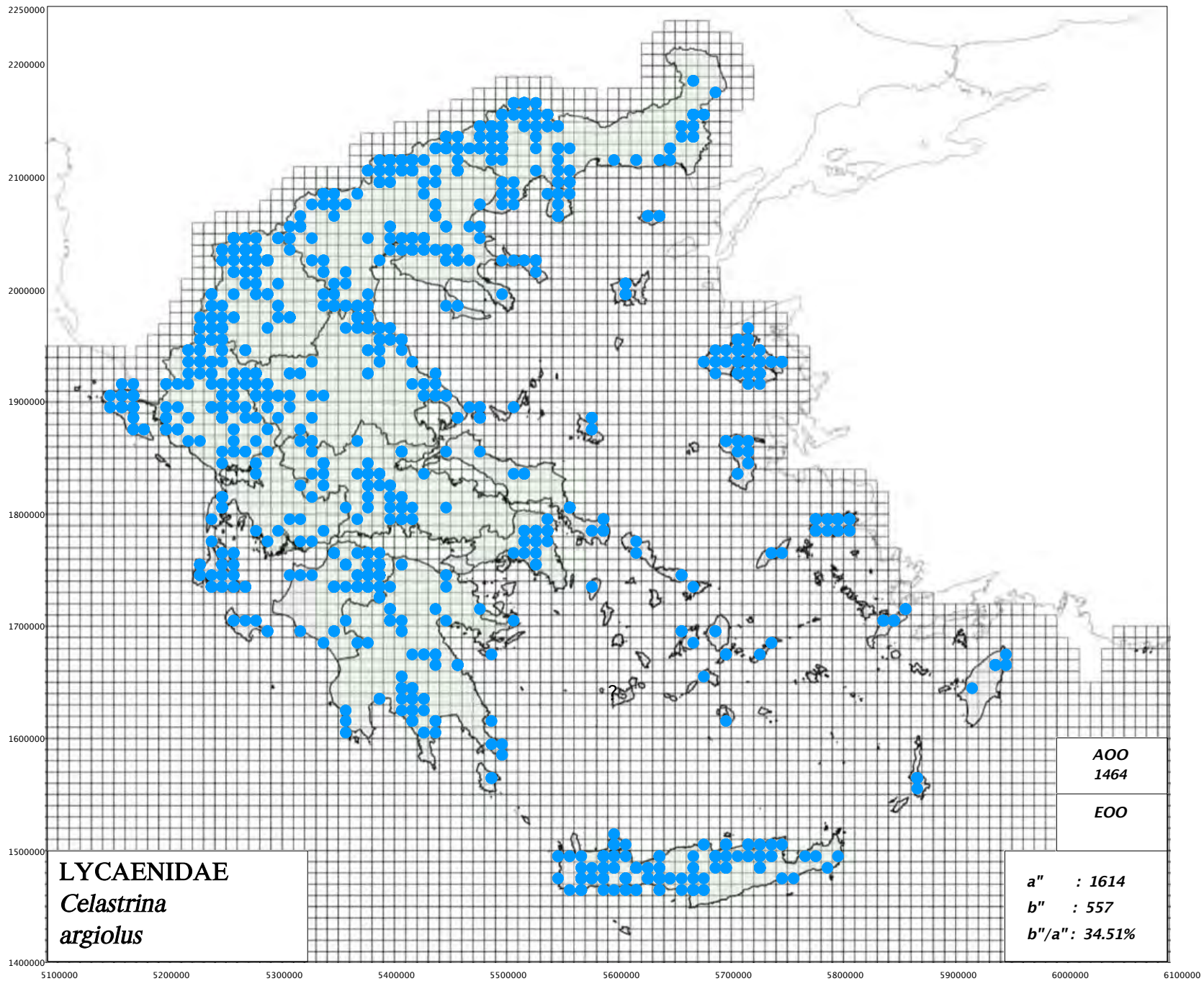


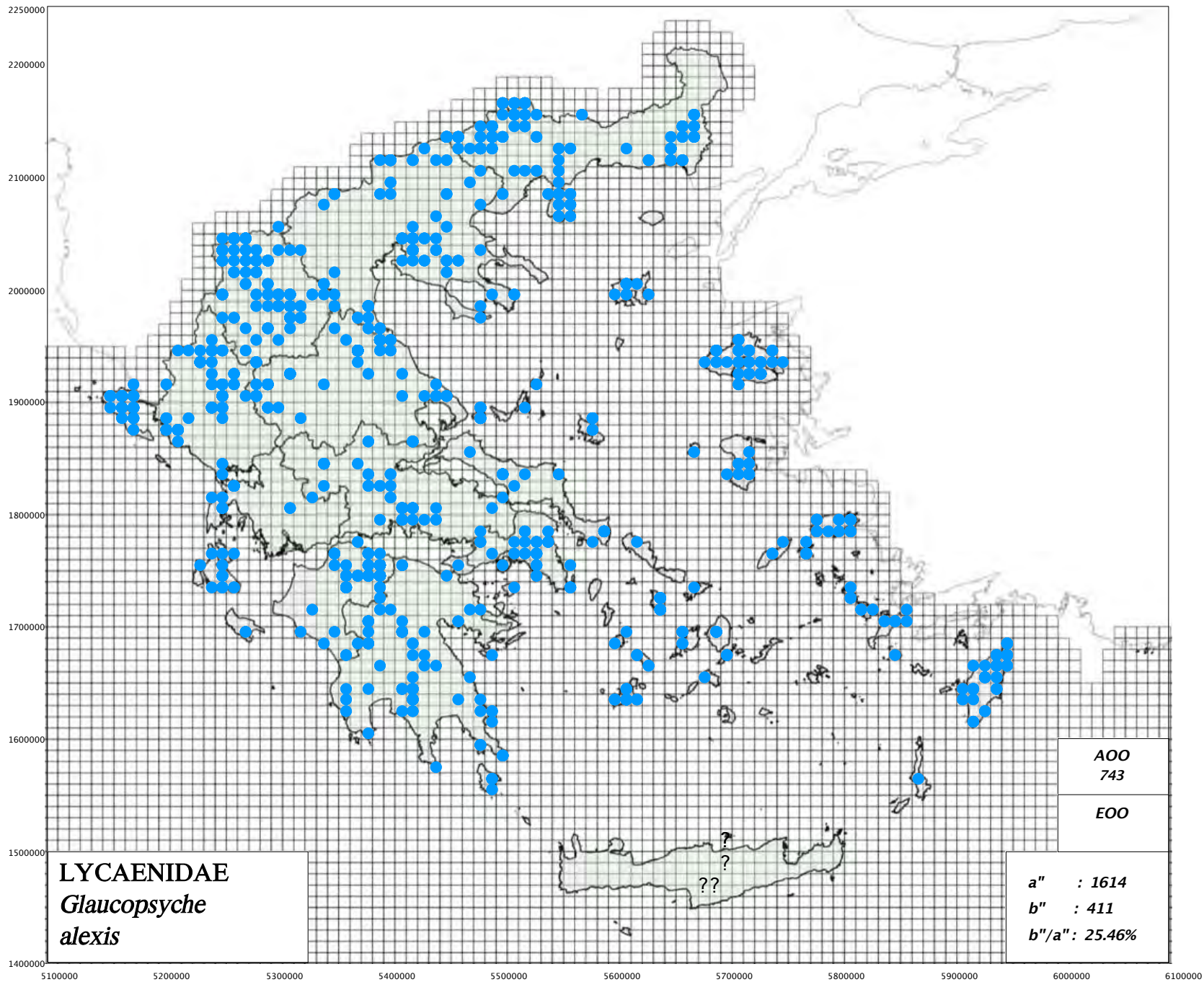


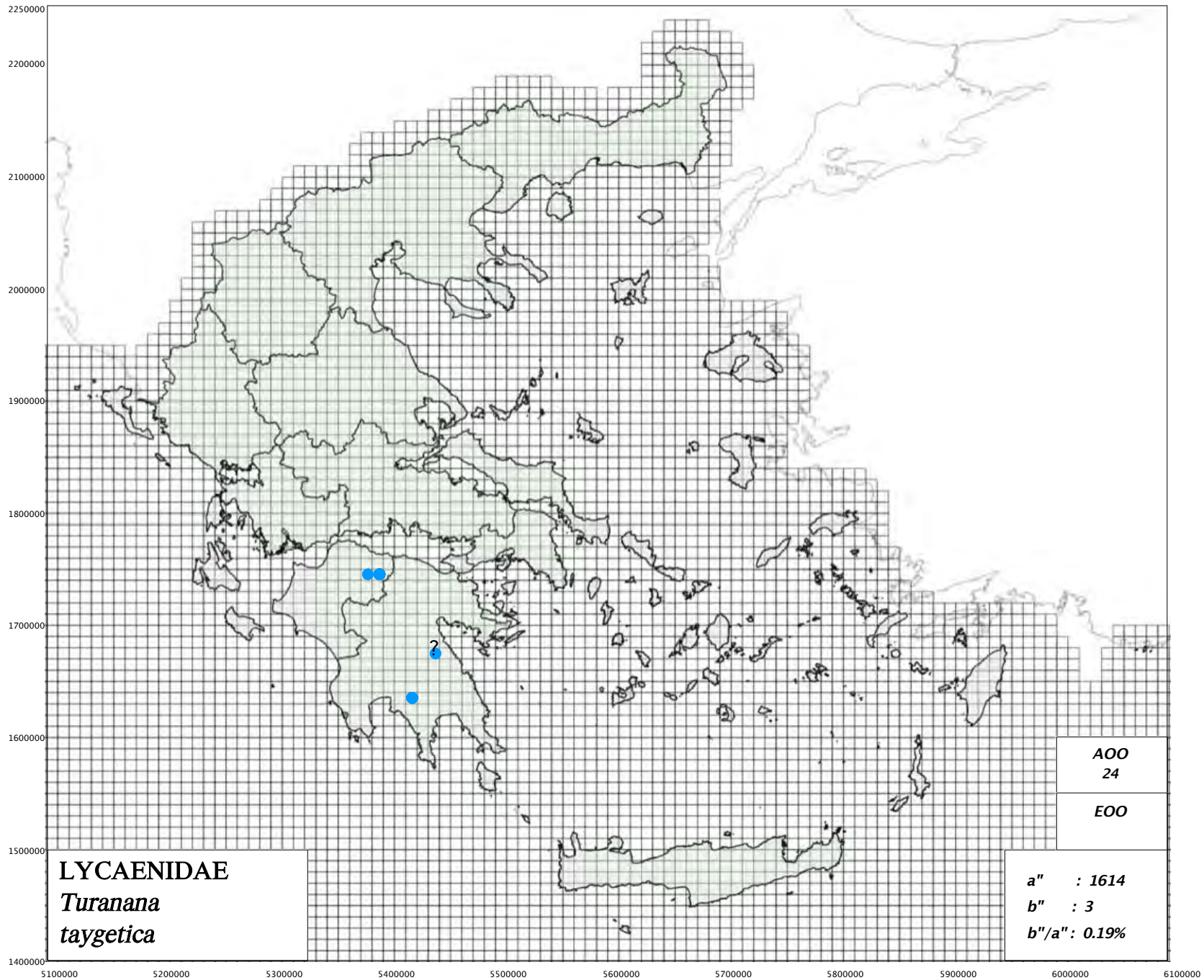


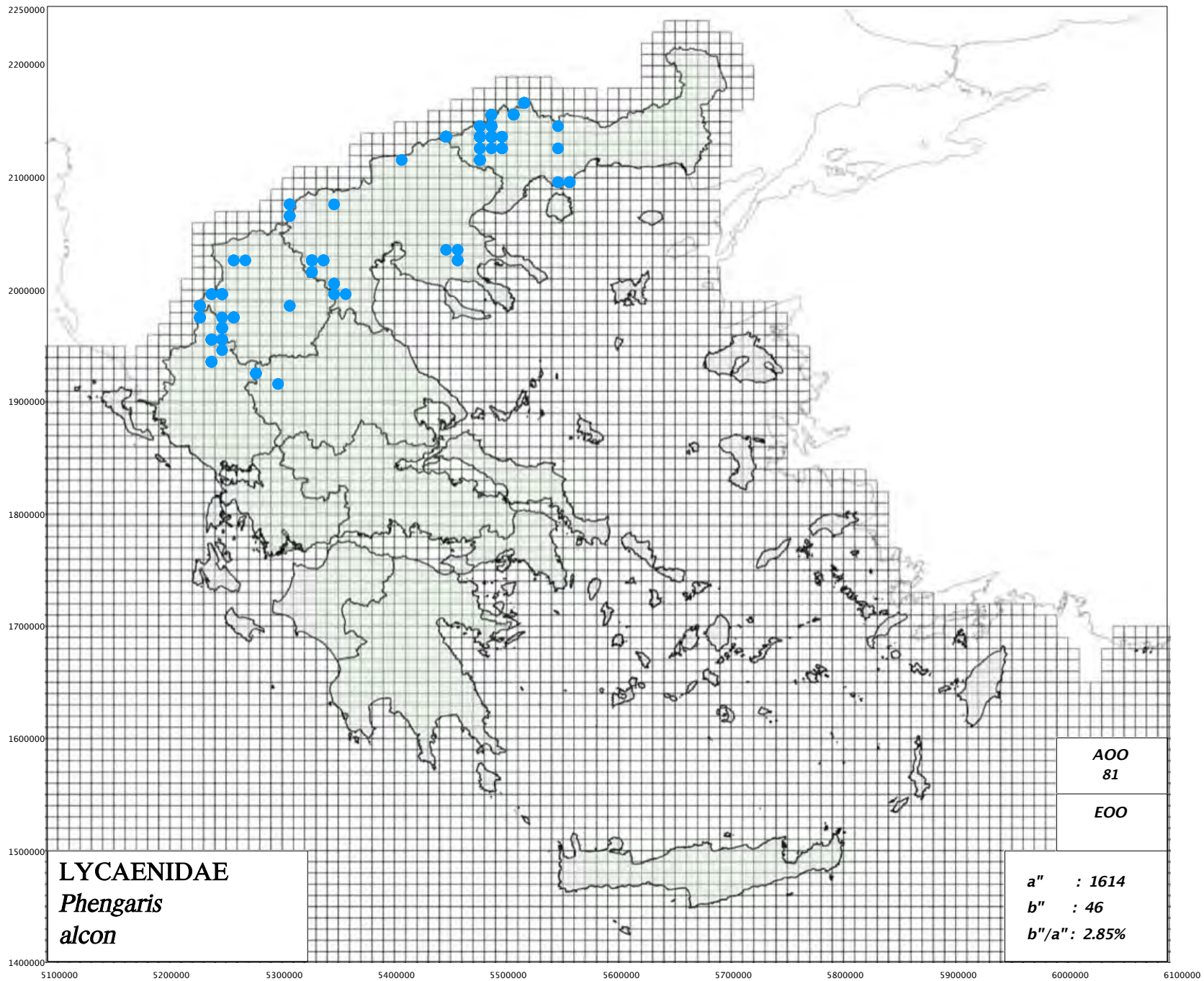


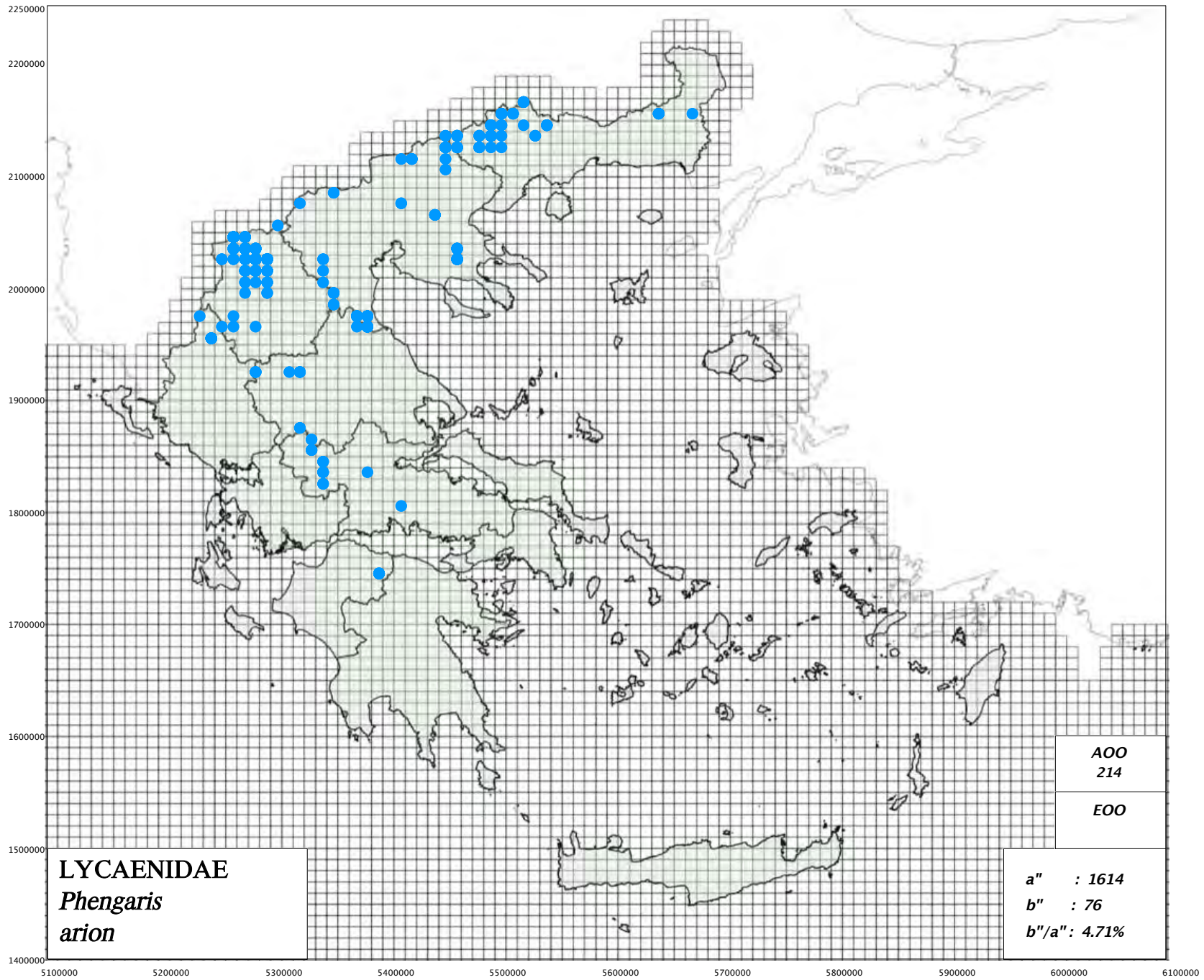


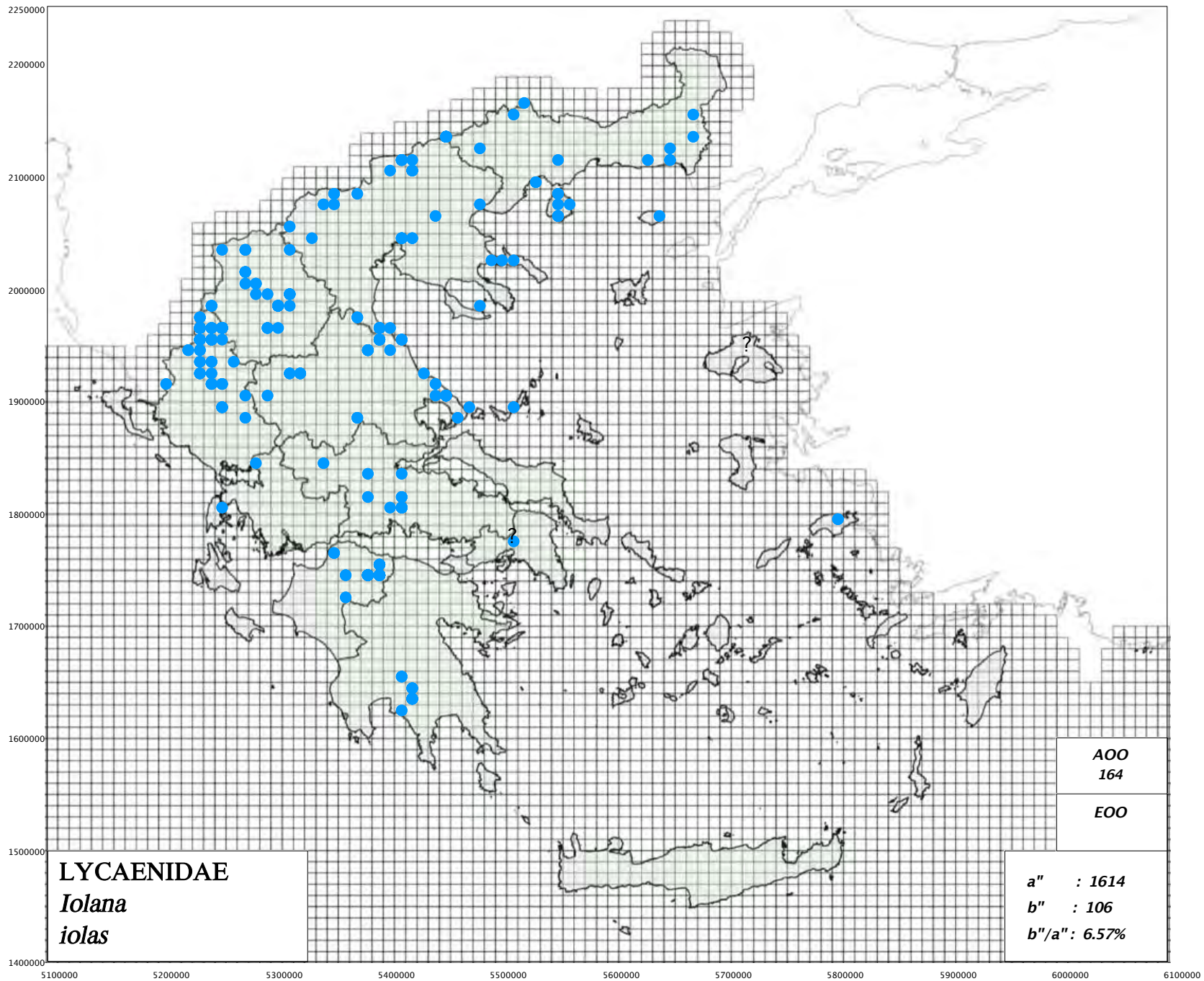


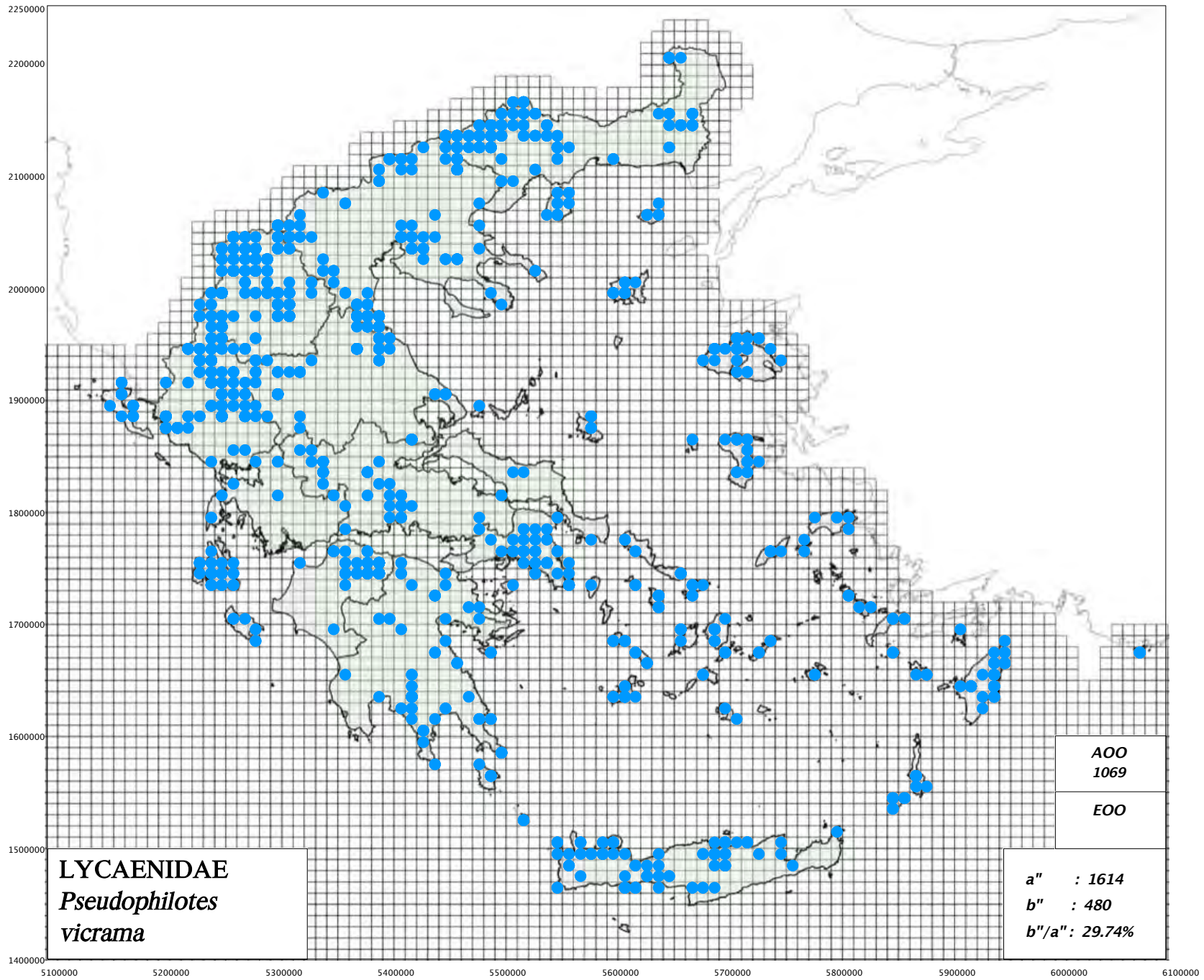


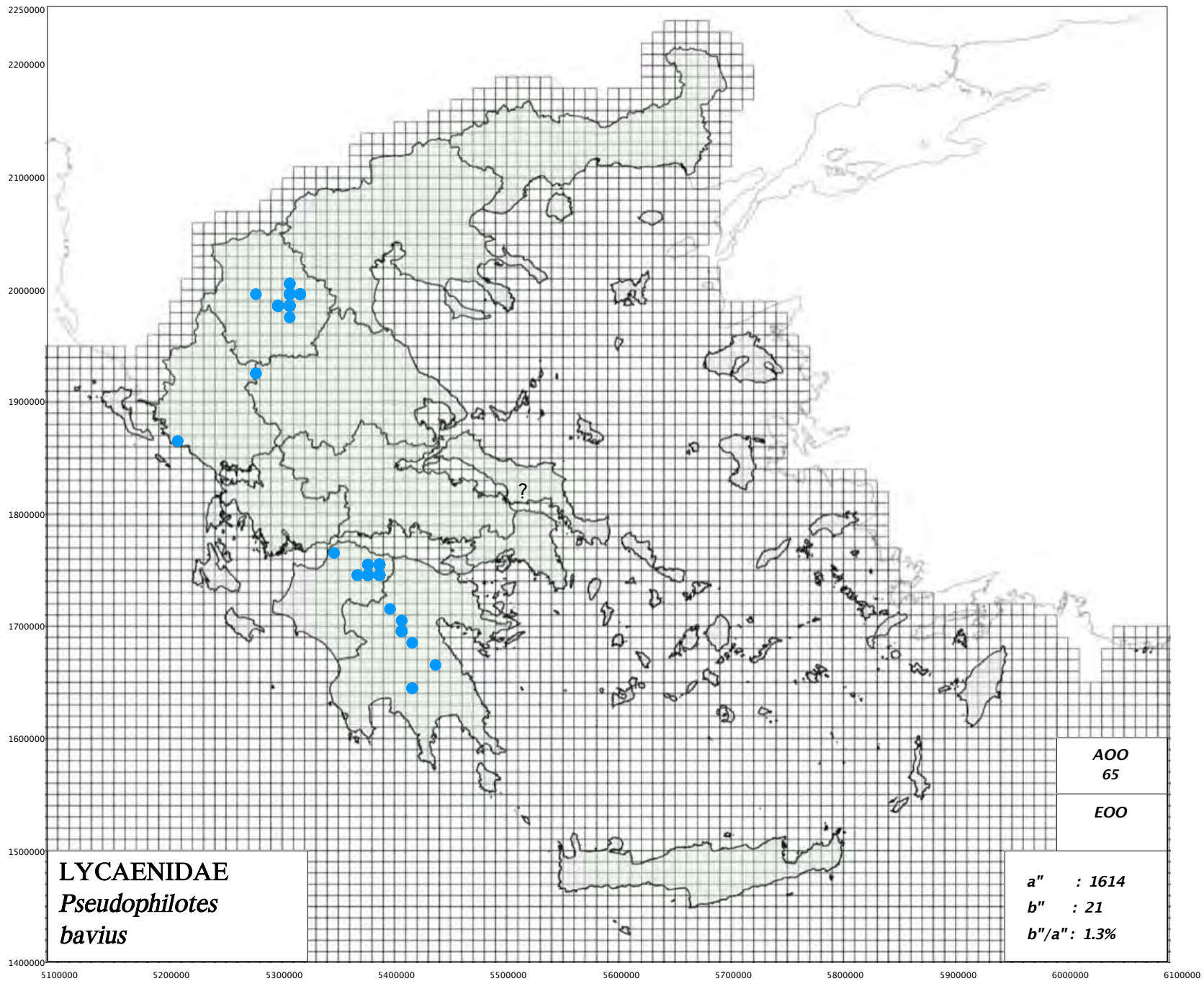


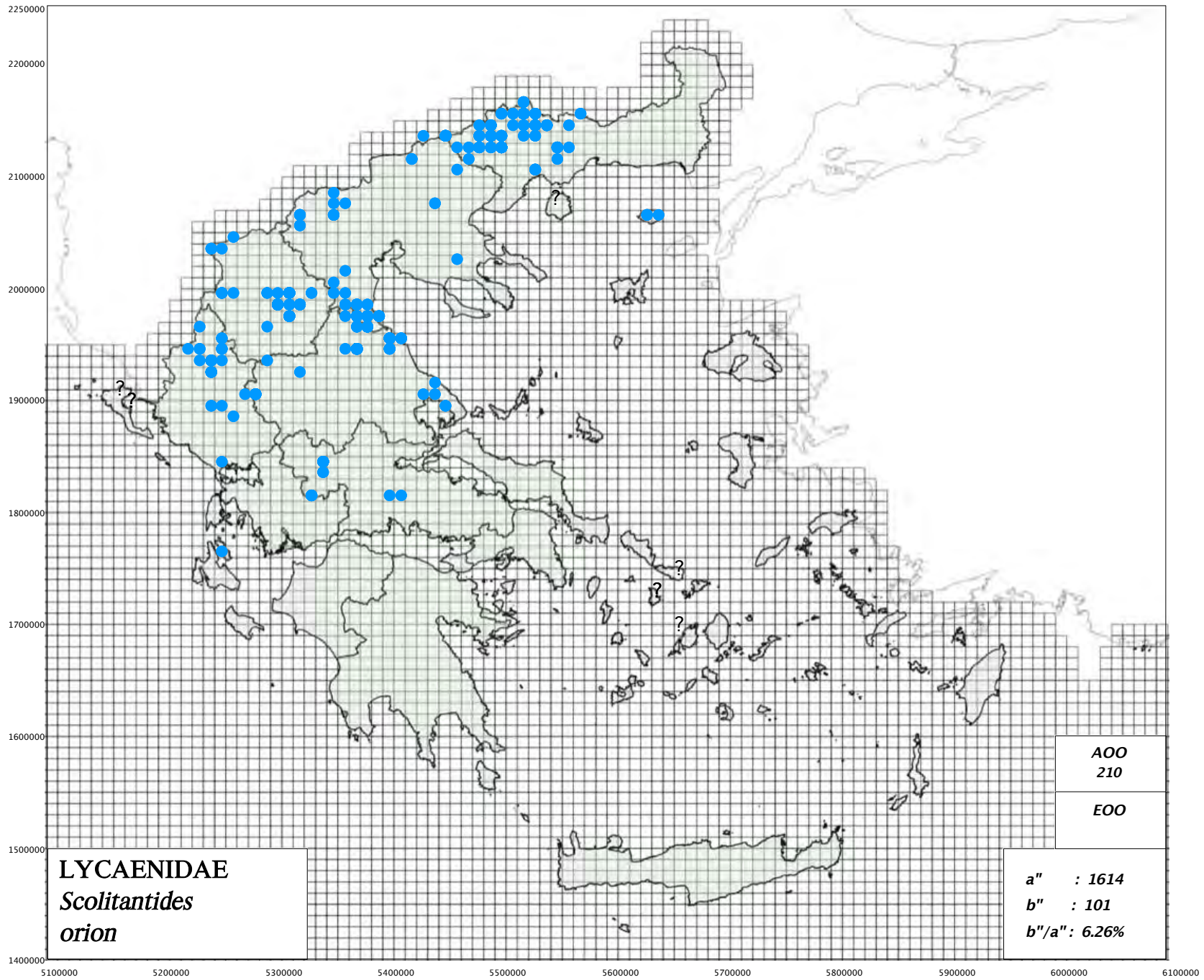


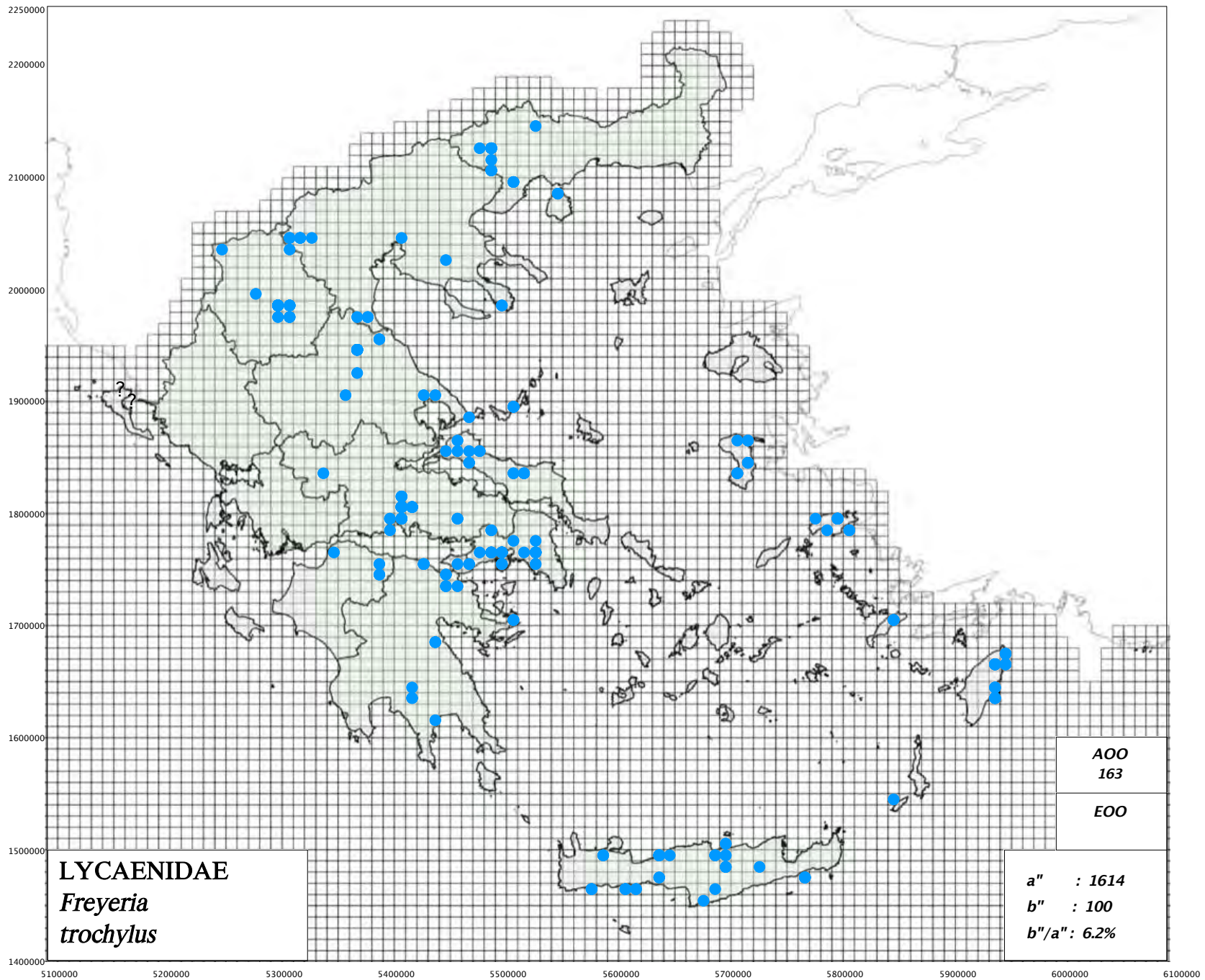


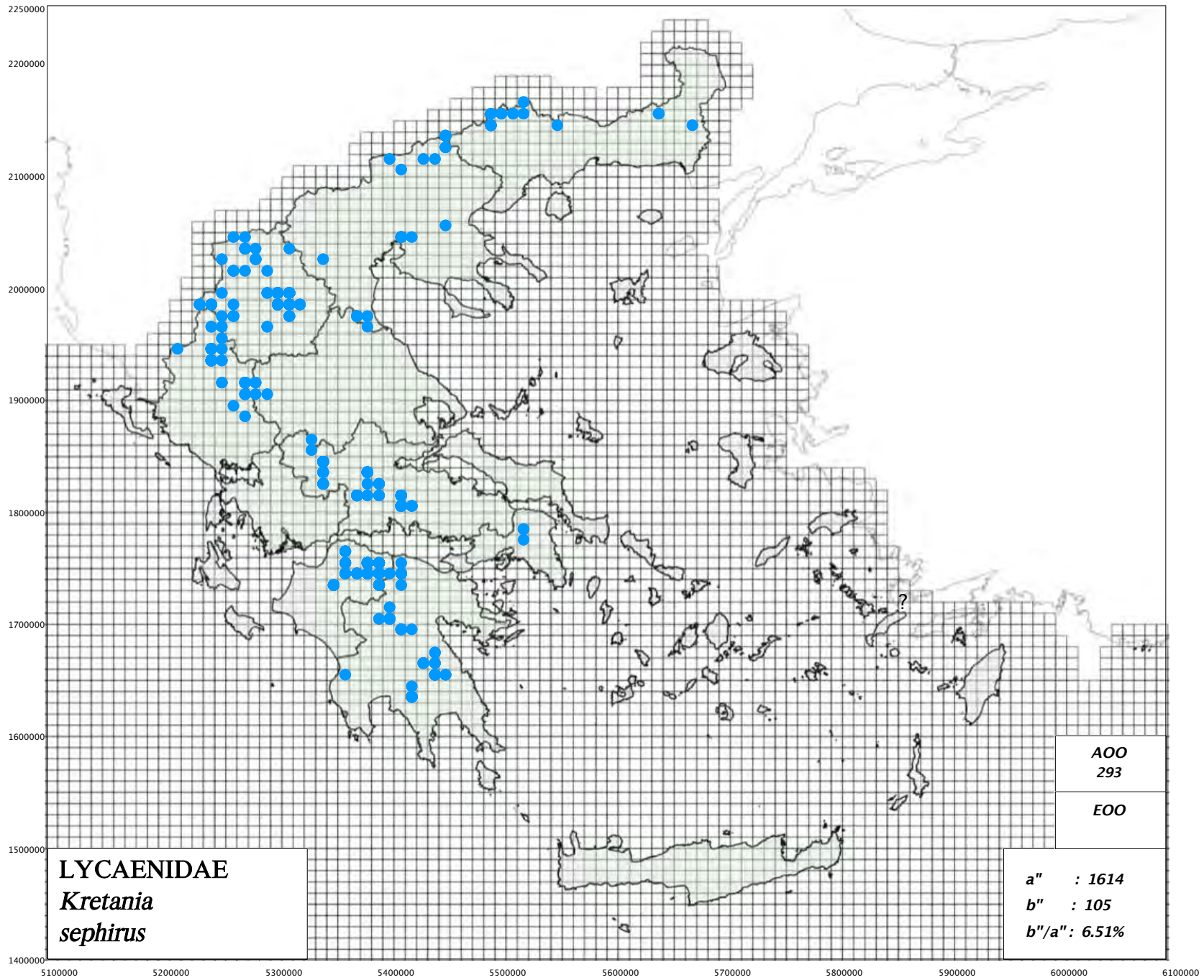


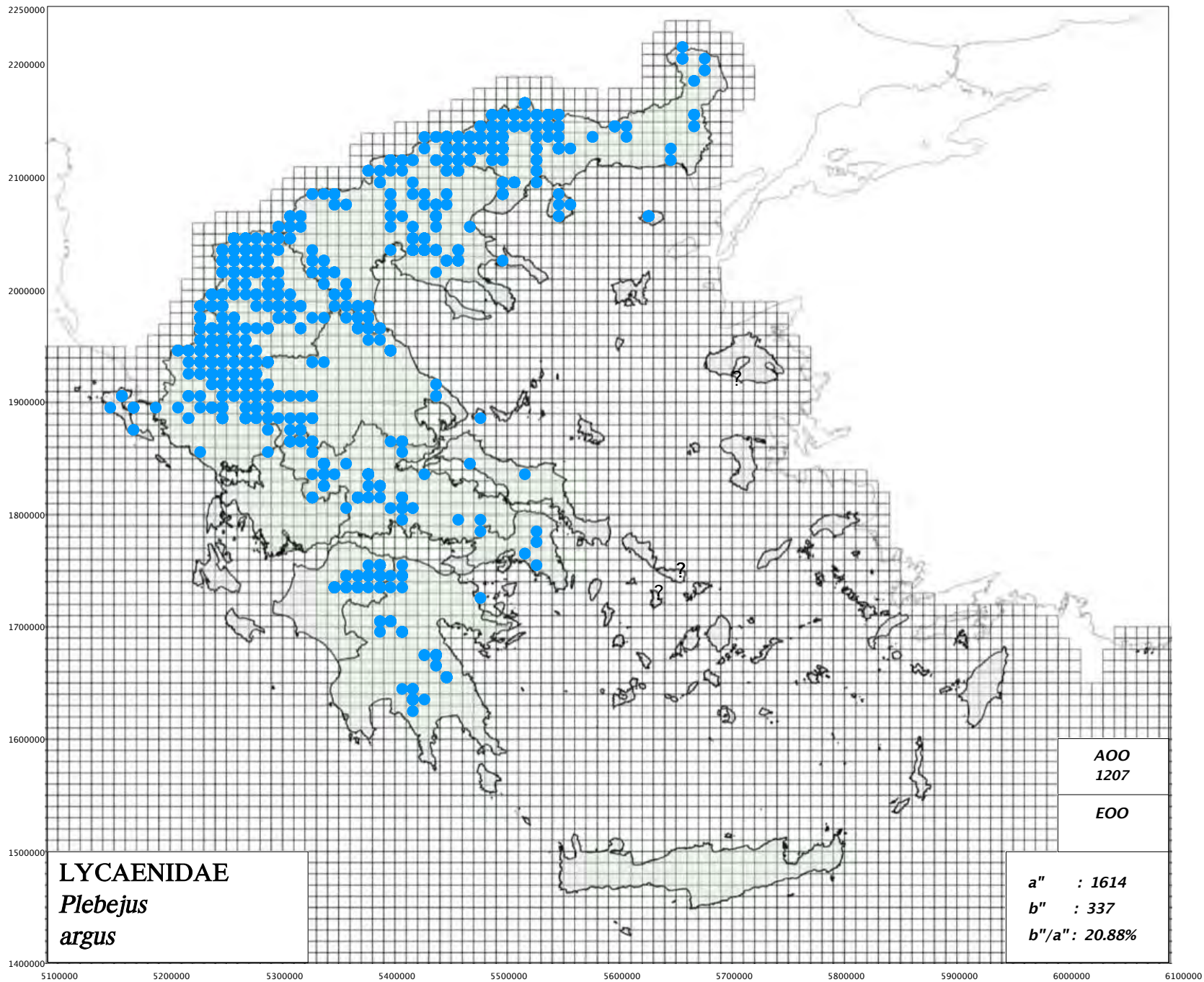




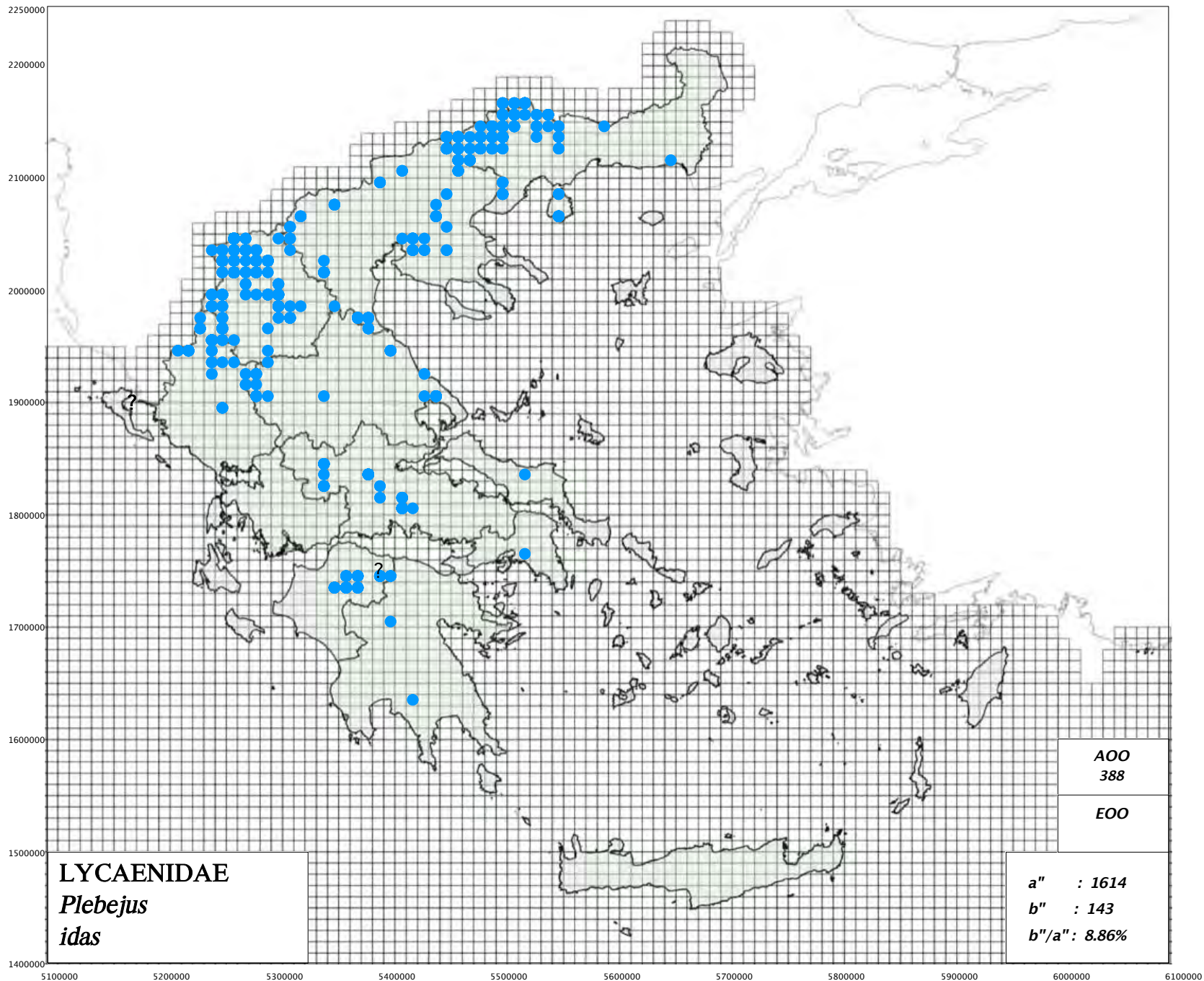




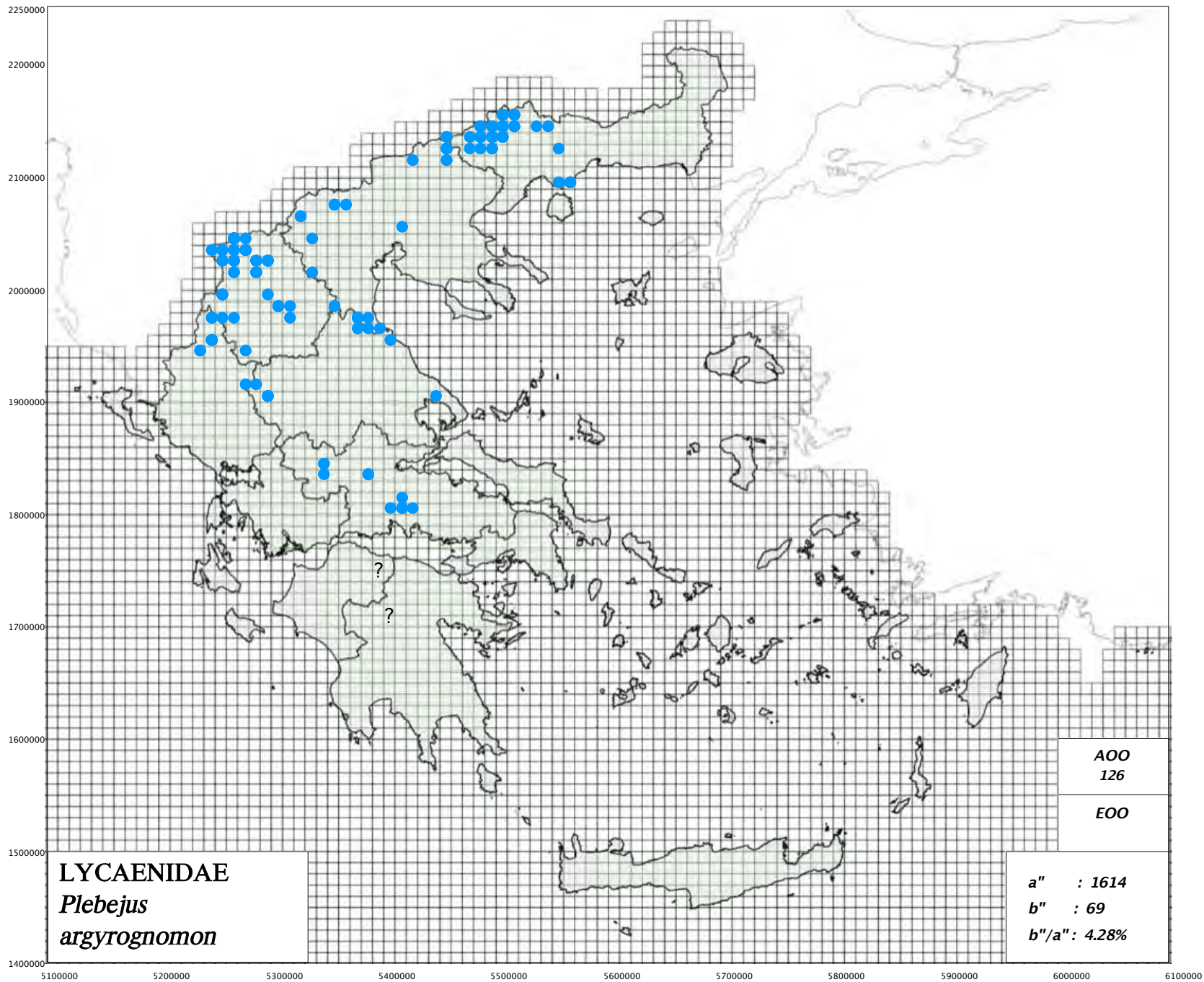


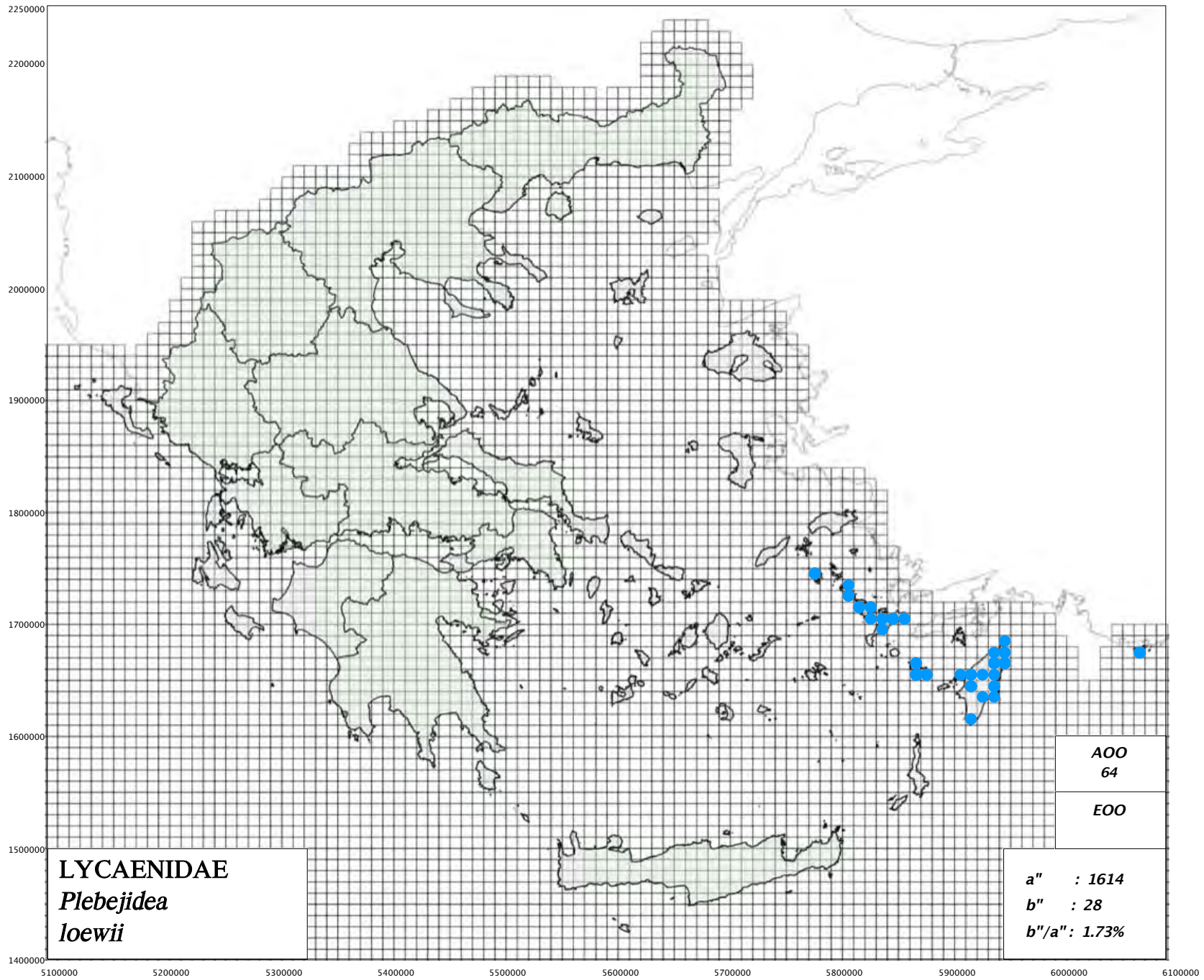


http://www.pamperis.gr/PHOTOGRAPHS/Plebejus_argus_idas_argyrognomon_complex.html

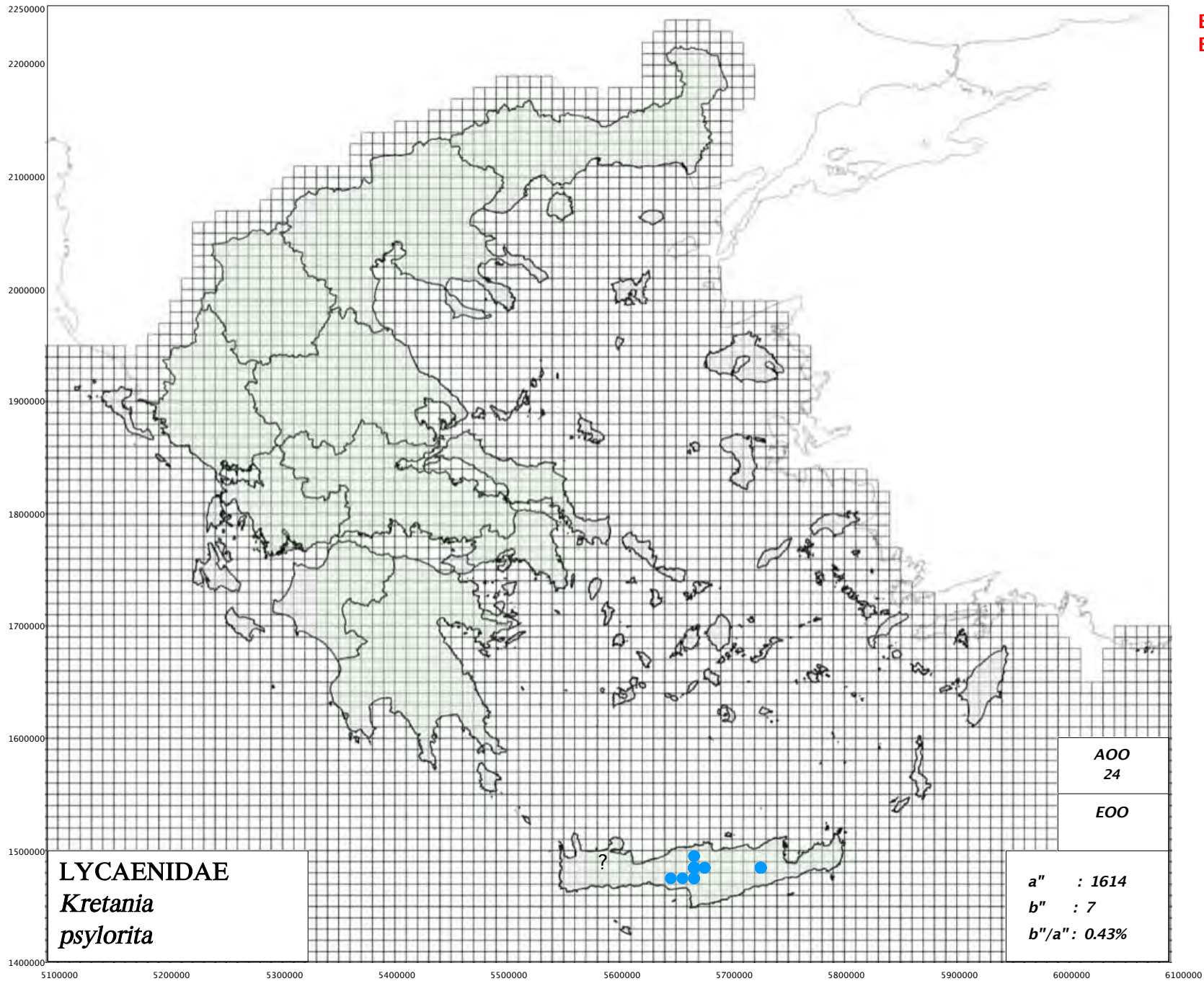


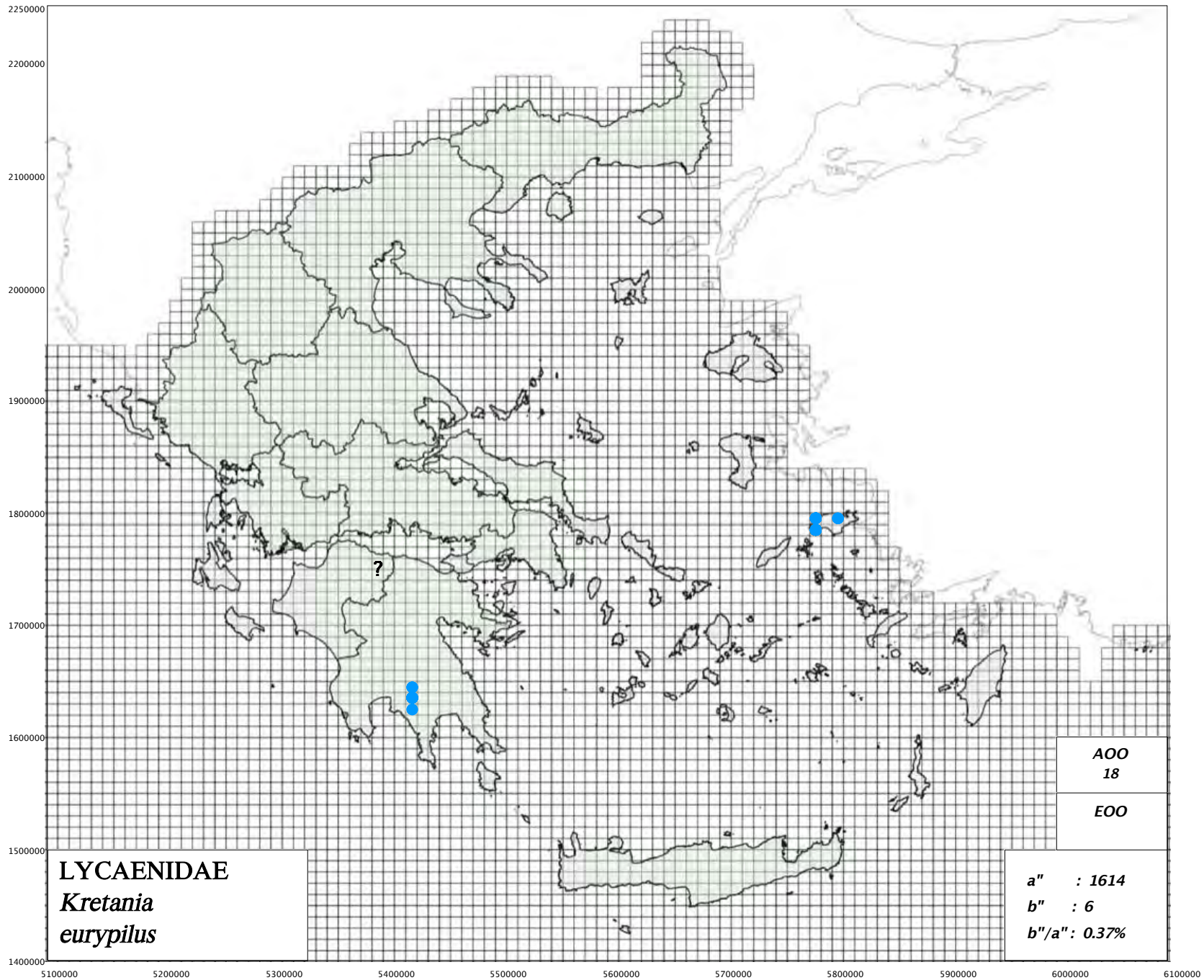
http://www.pamperis.gr/PHOTOGRAPHS/Plebejus_argus_idas_argyrognomon_complex.html

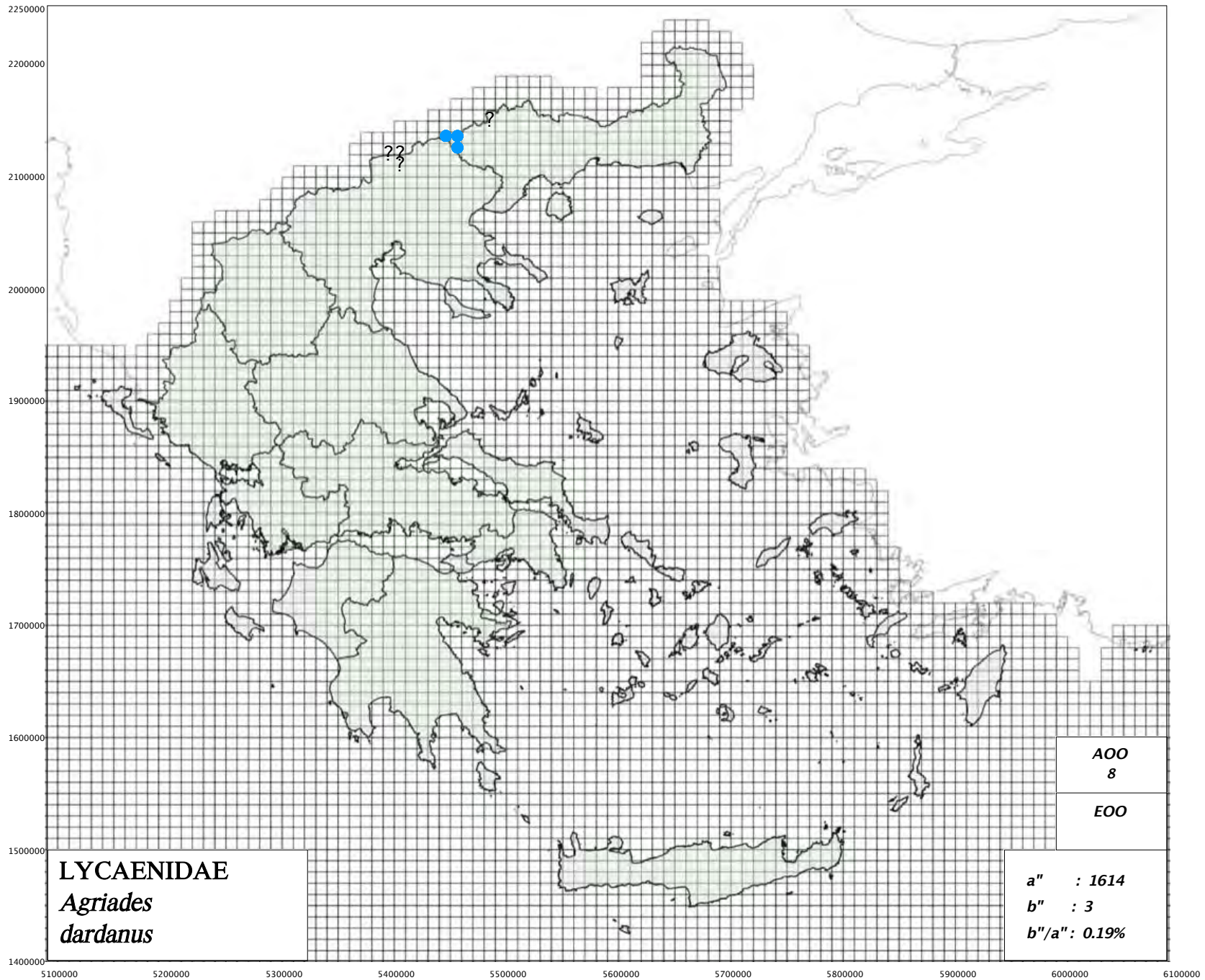


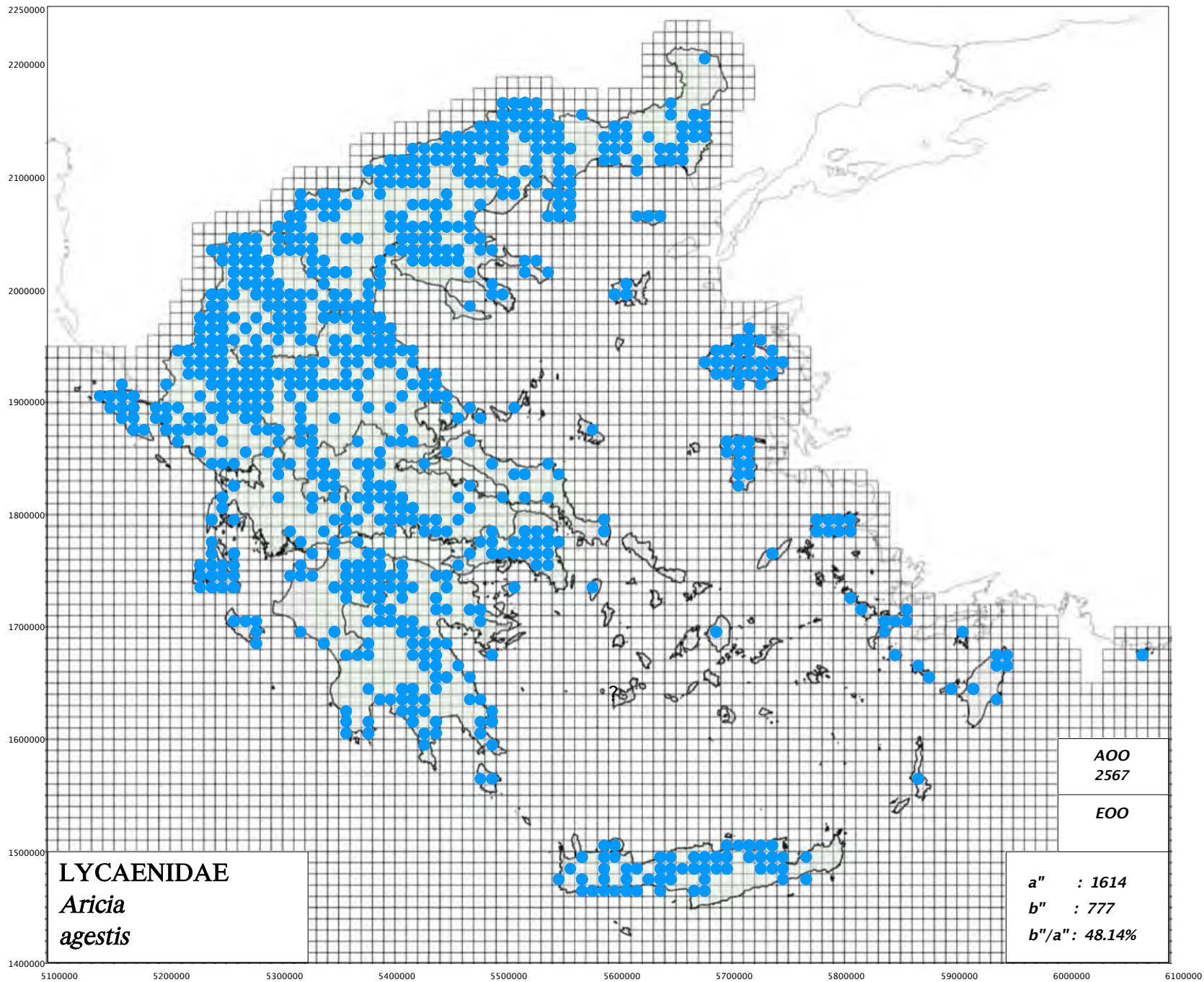


ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

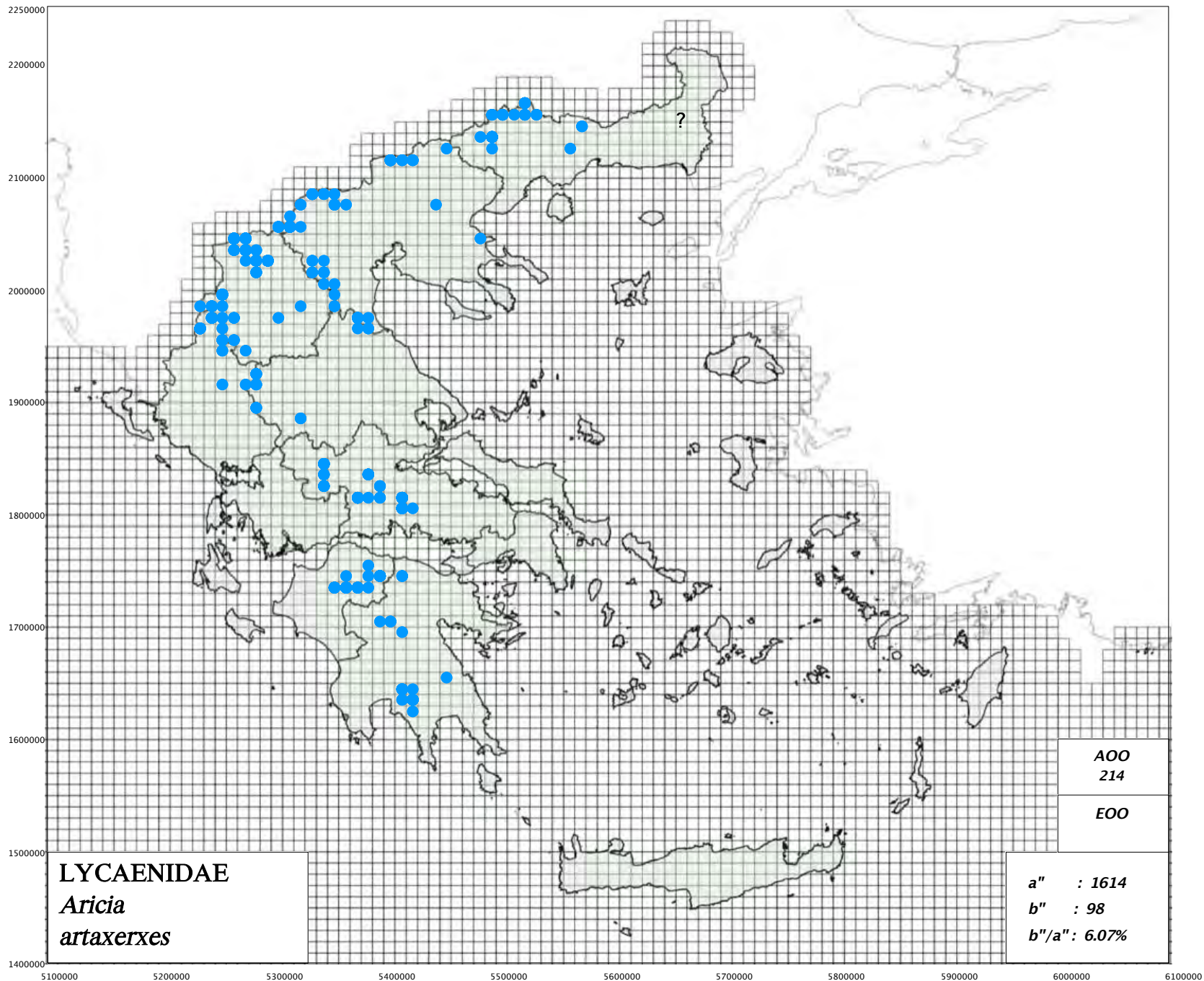




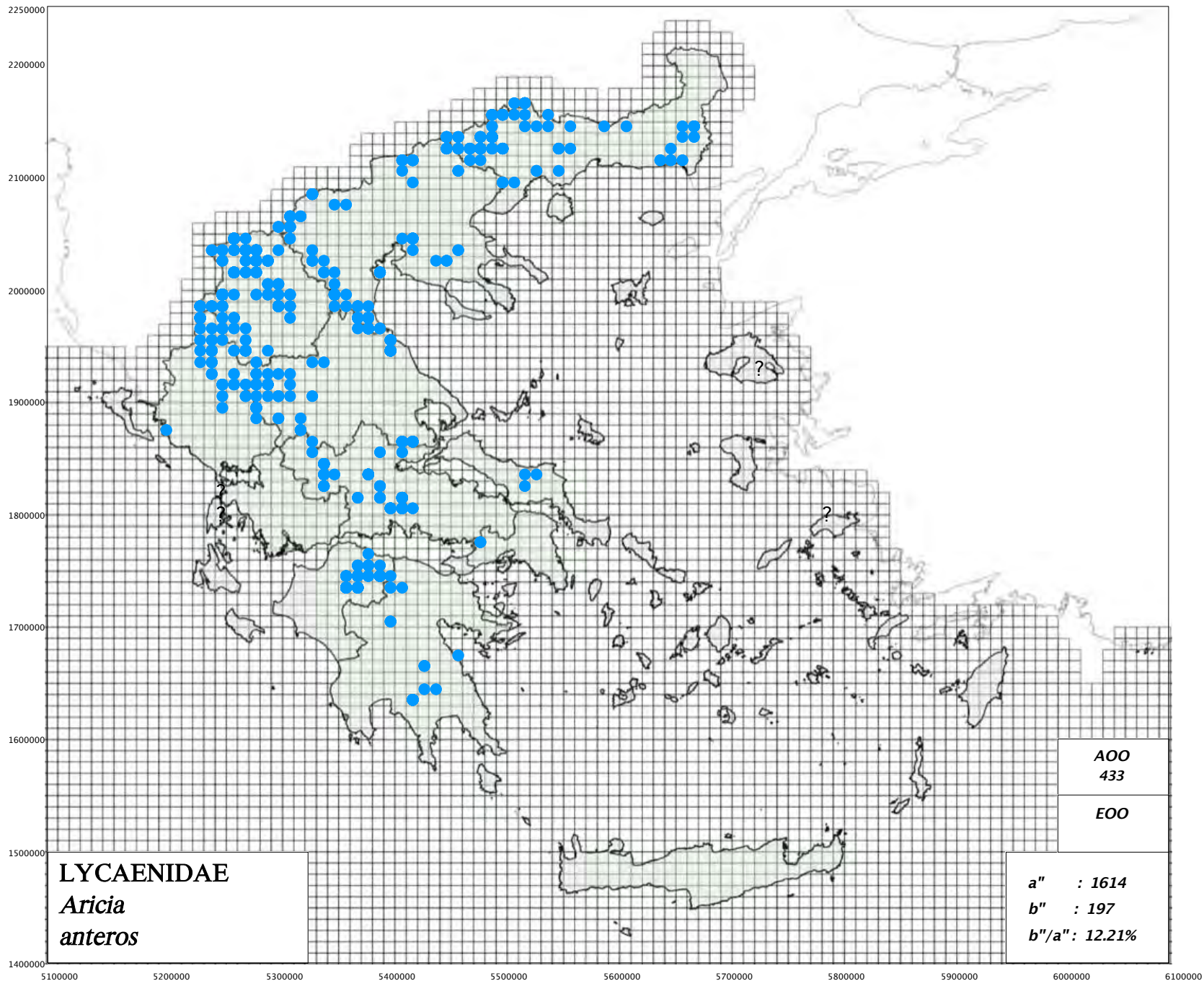




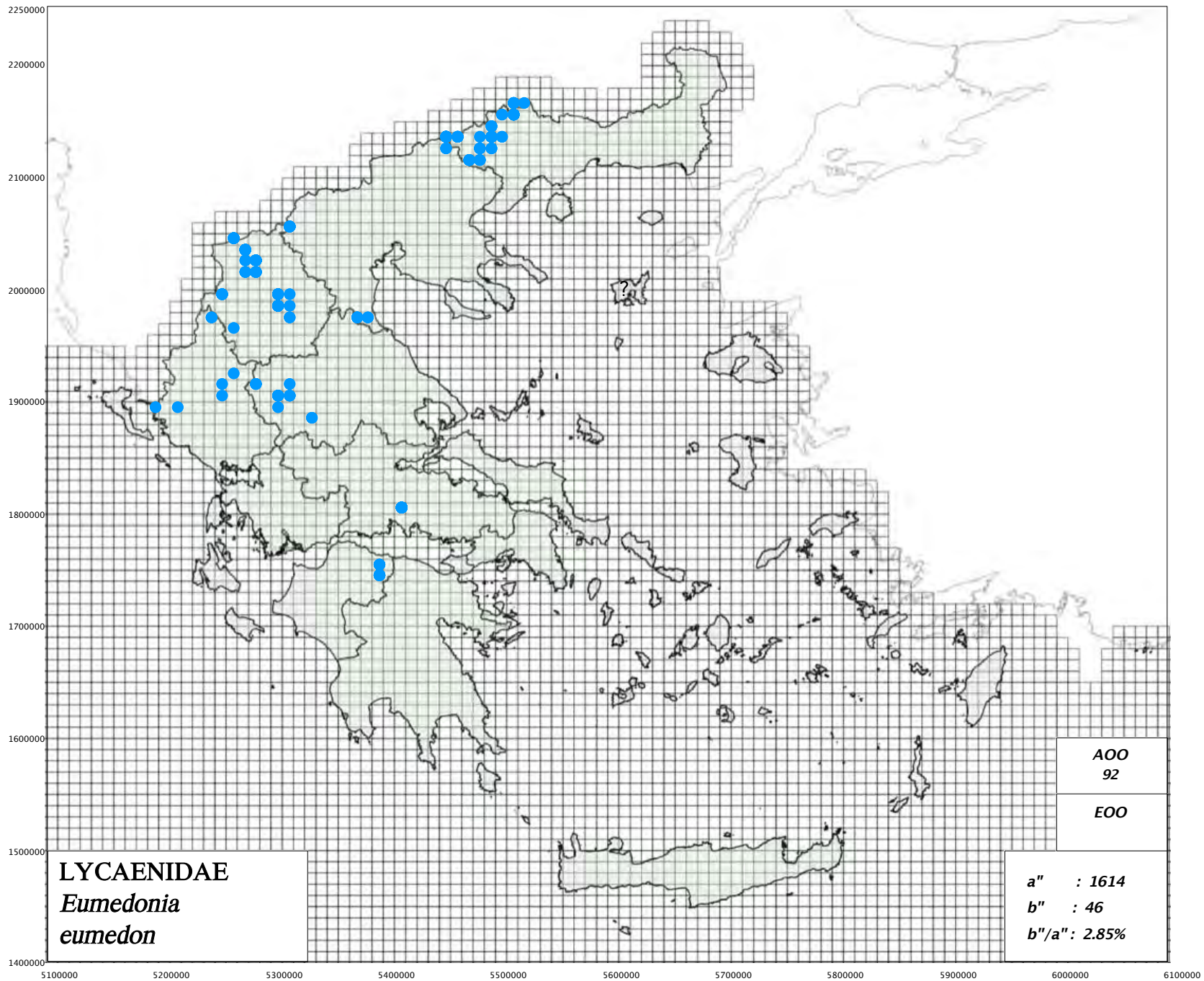
http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agestis,_Aricia_artaxerxes,_Aricia_anteros.html

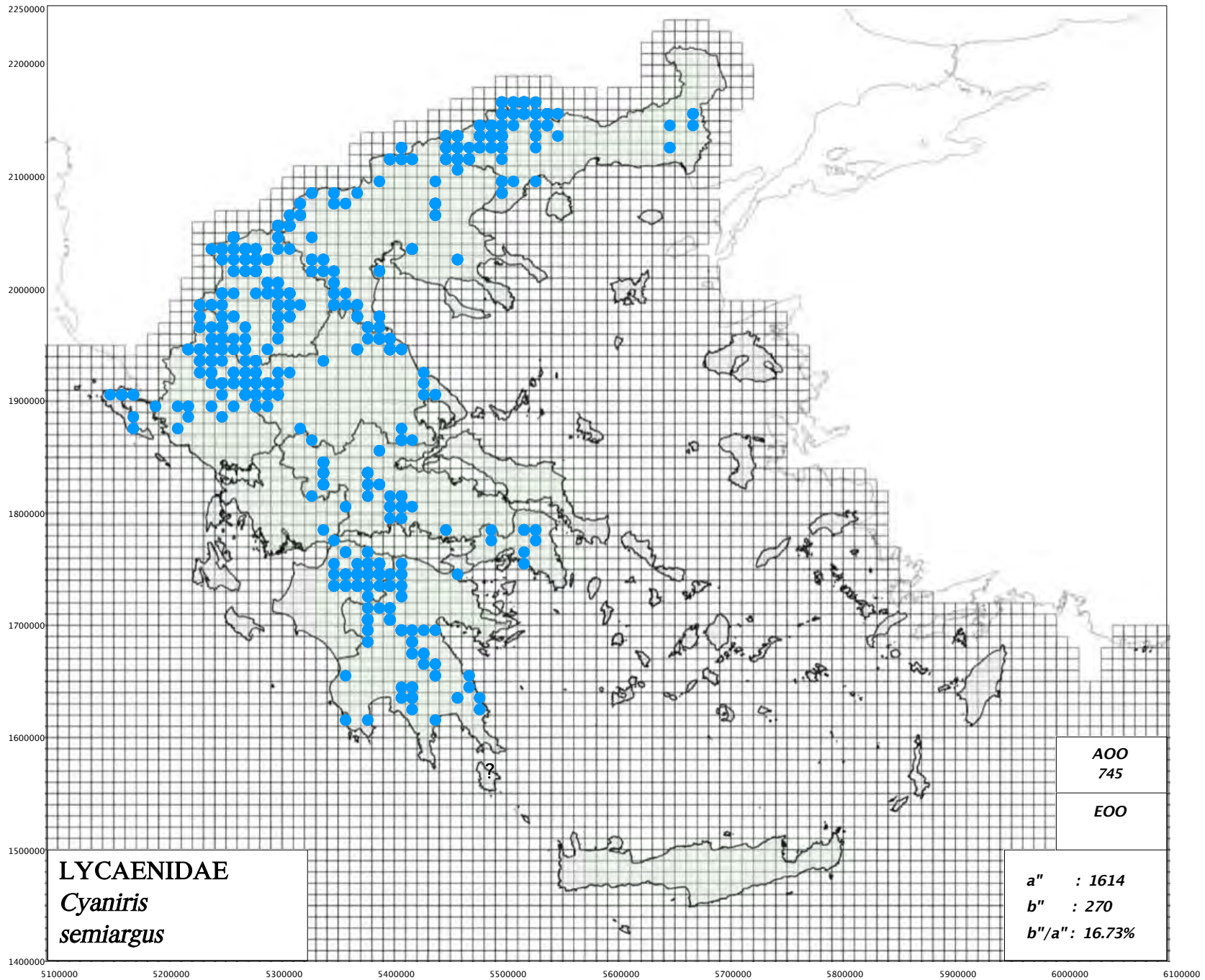


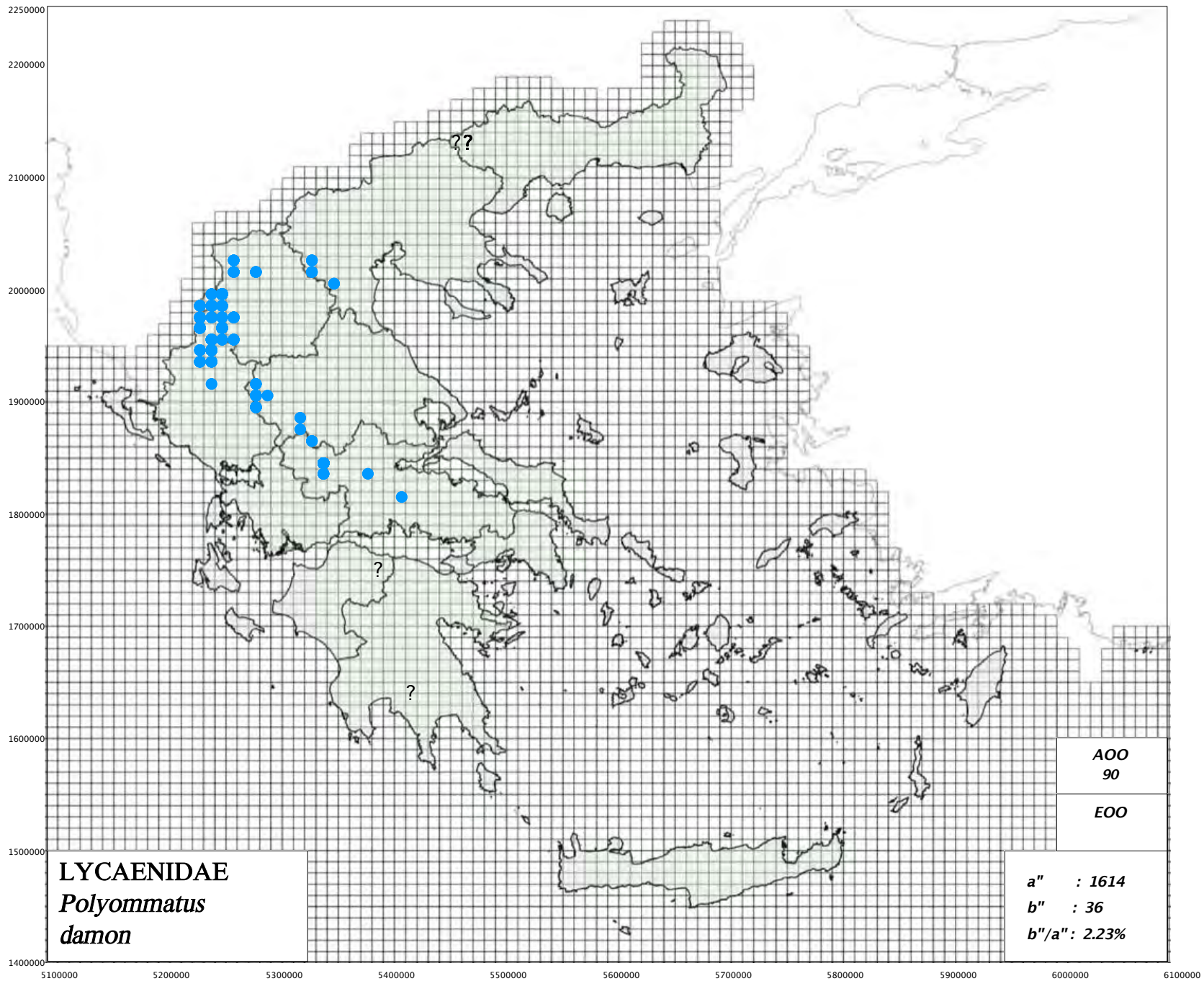
http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agemis,_Aricia_artaxerxes,_Aricia_anteros.html

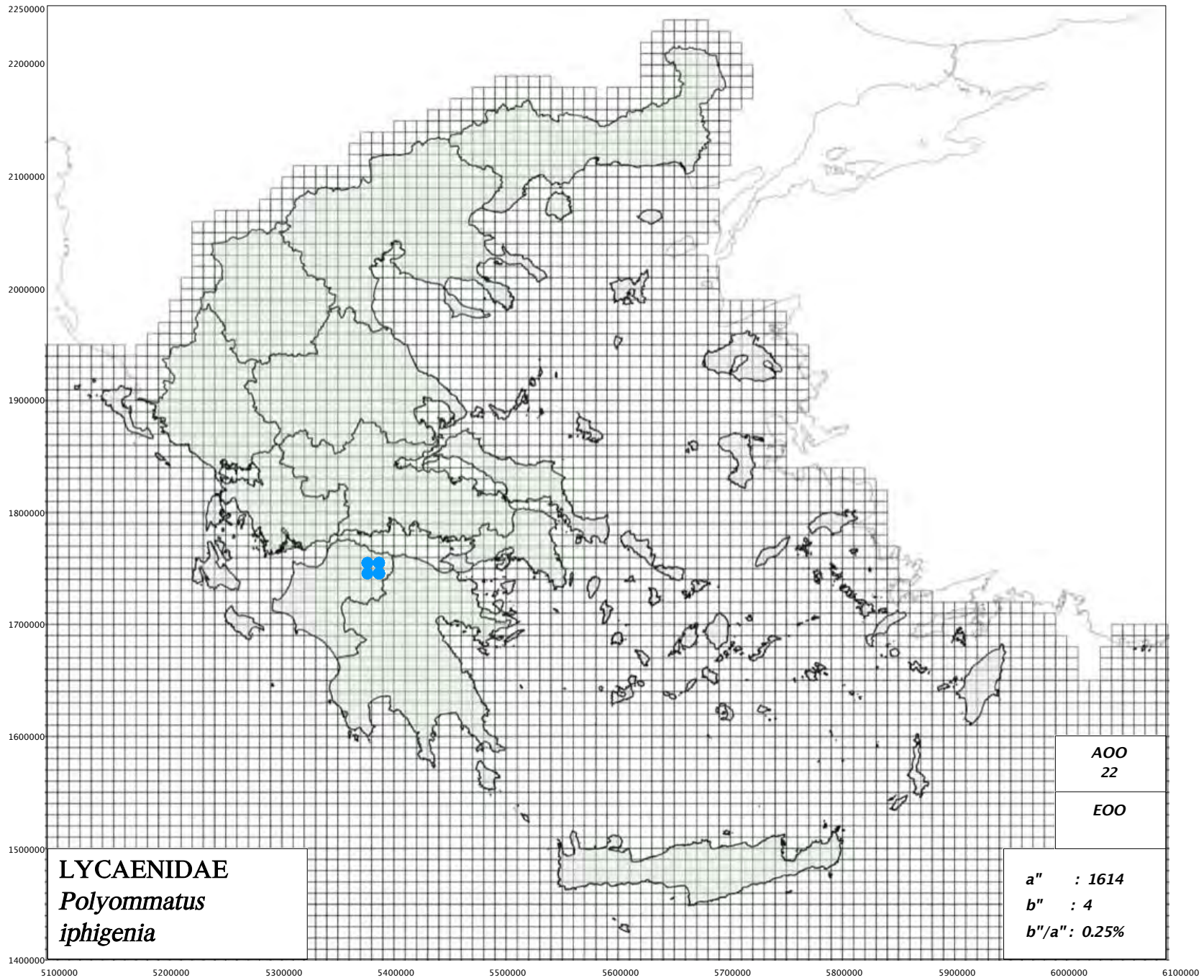


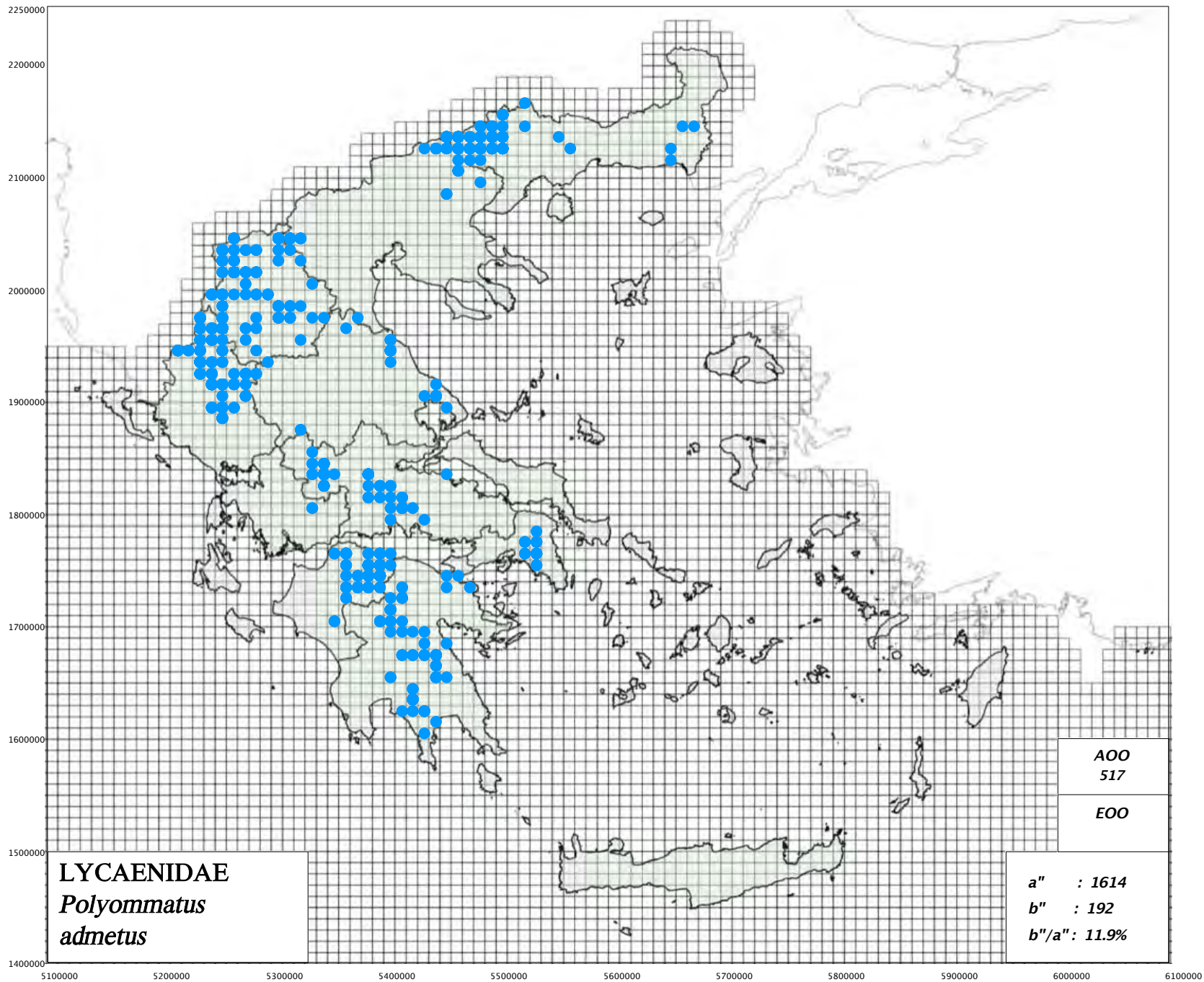
http://www.pamperis.gr/PHOTOGRAPHS/Aricia_agesis,_Aricia_artaxerxes,_Aricia_anteros.html

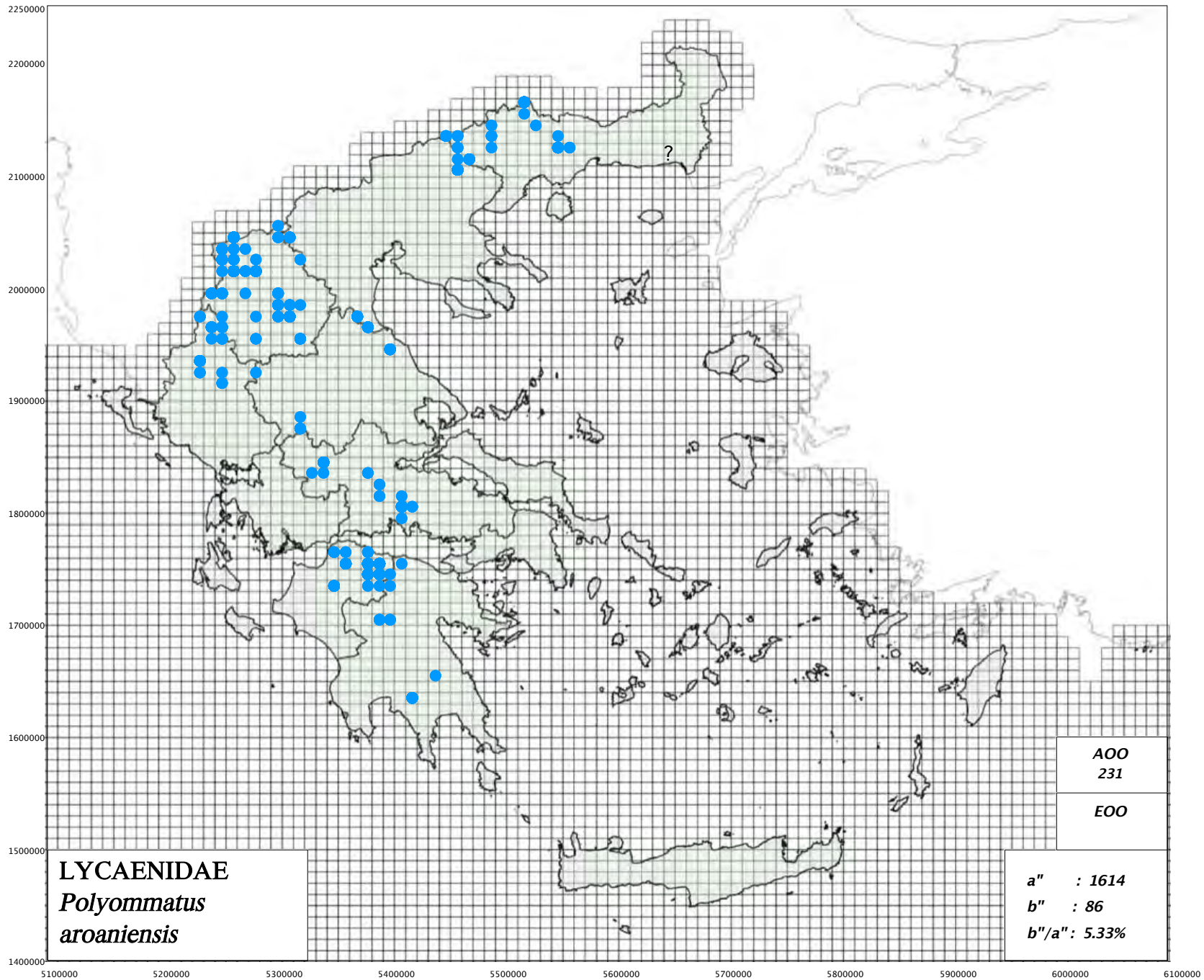


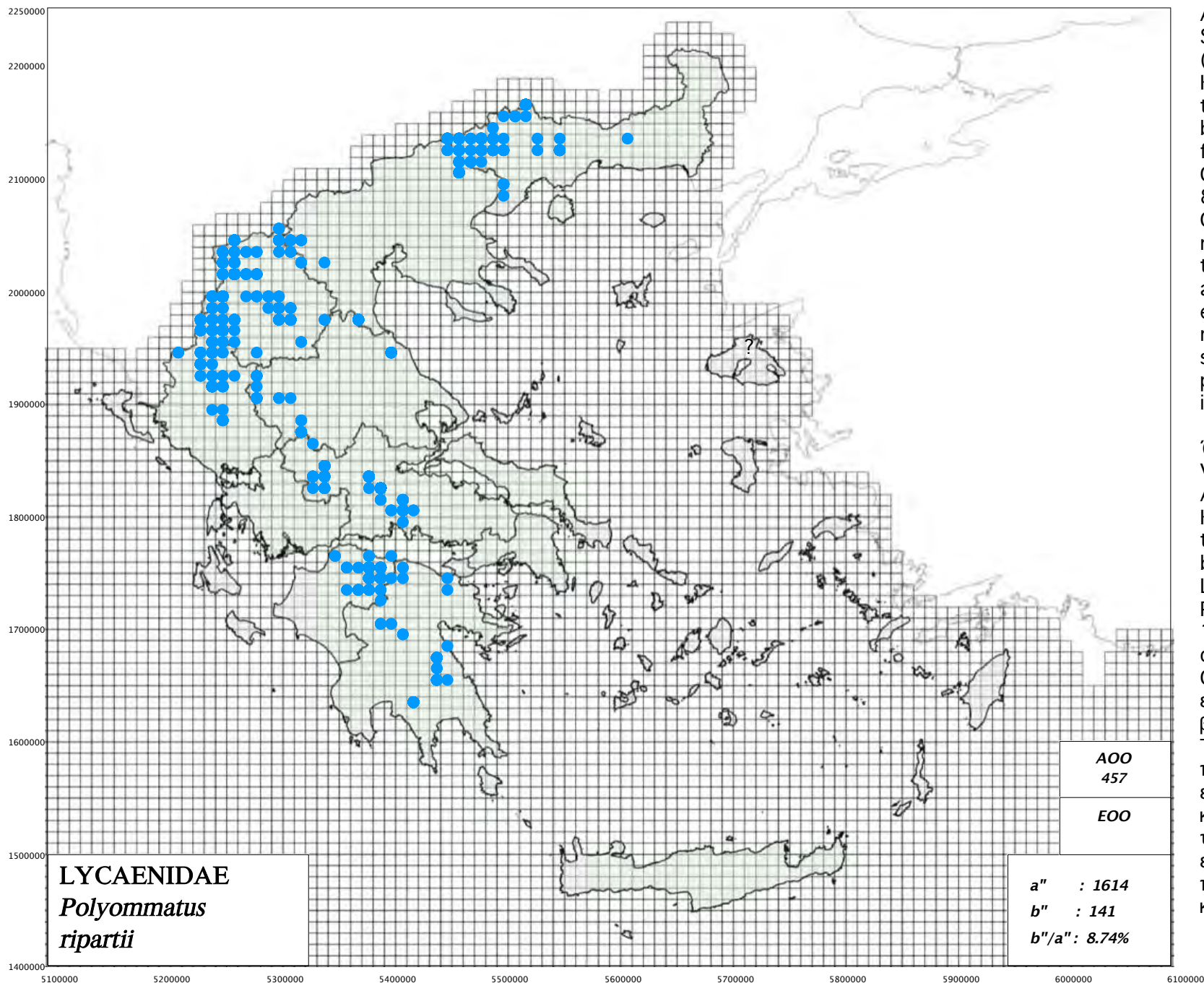












As published by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016):

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 Τιμφρηστός, 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.

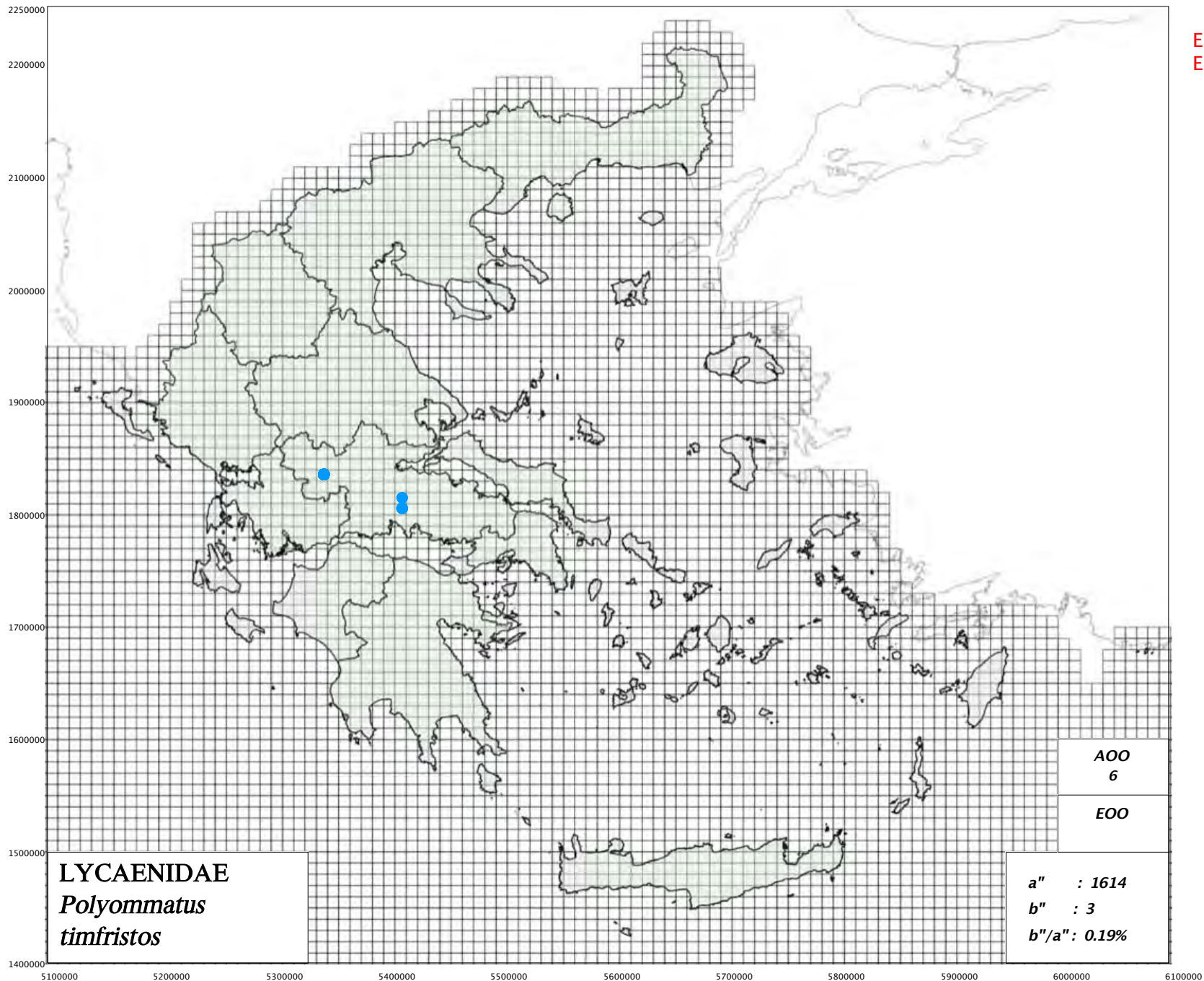
LYCAENIDAE
Polyommatus
ripartii

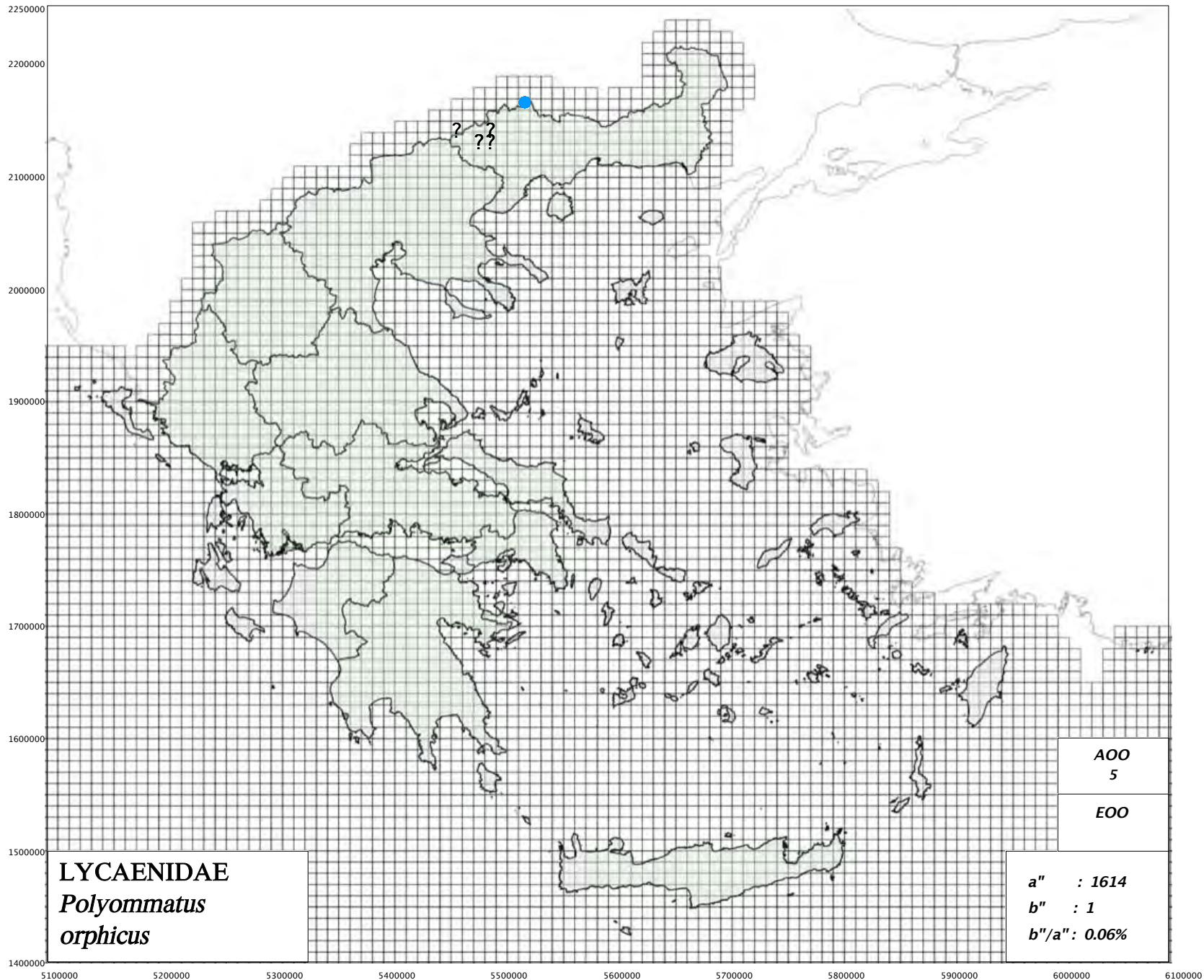
AOO
457

EOO

a'' : 1614
 b'' : 141
 b''/a'' : 8.74%

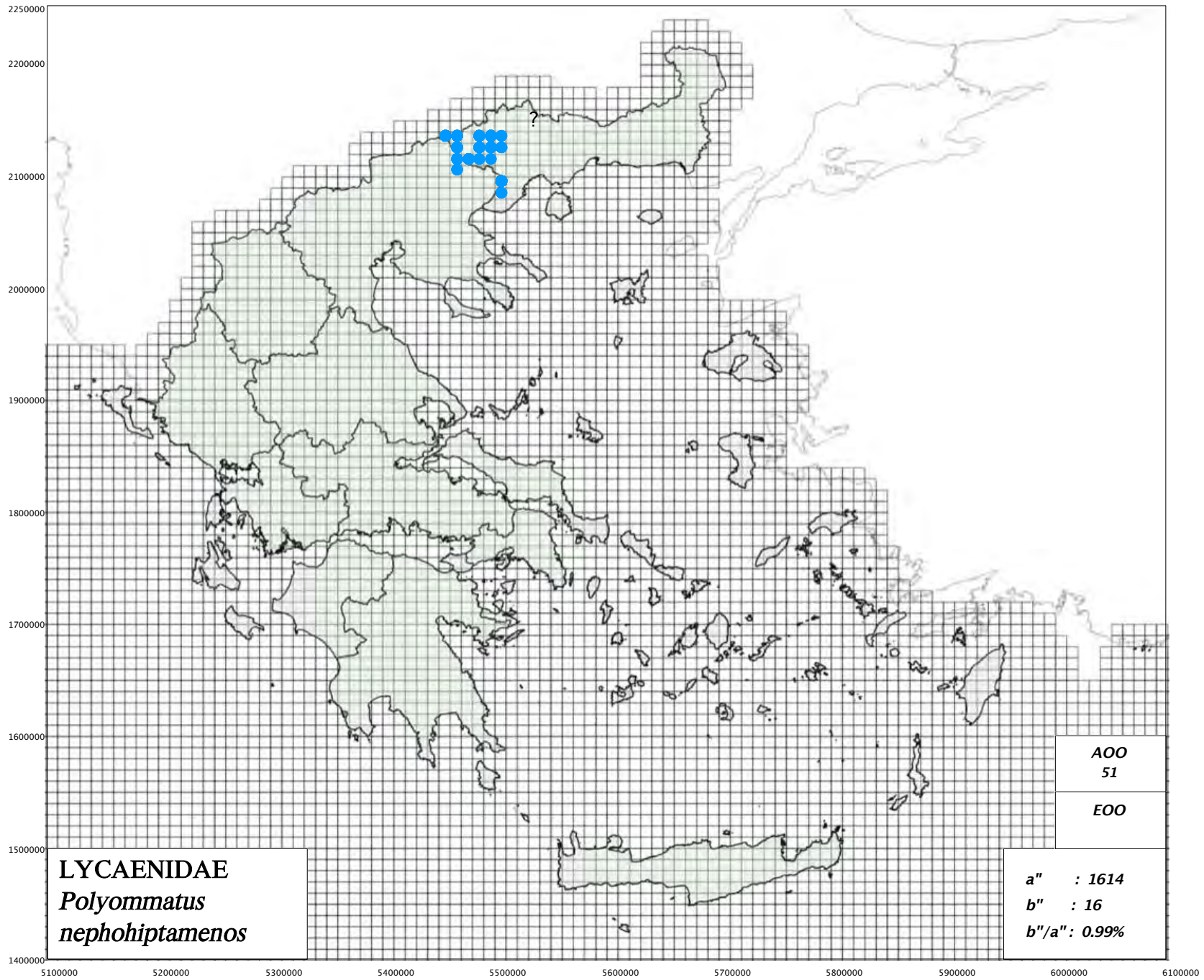
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

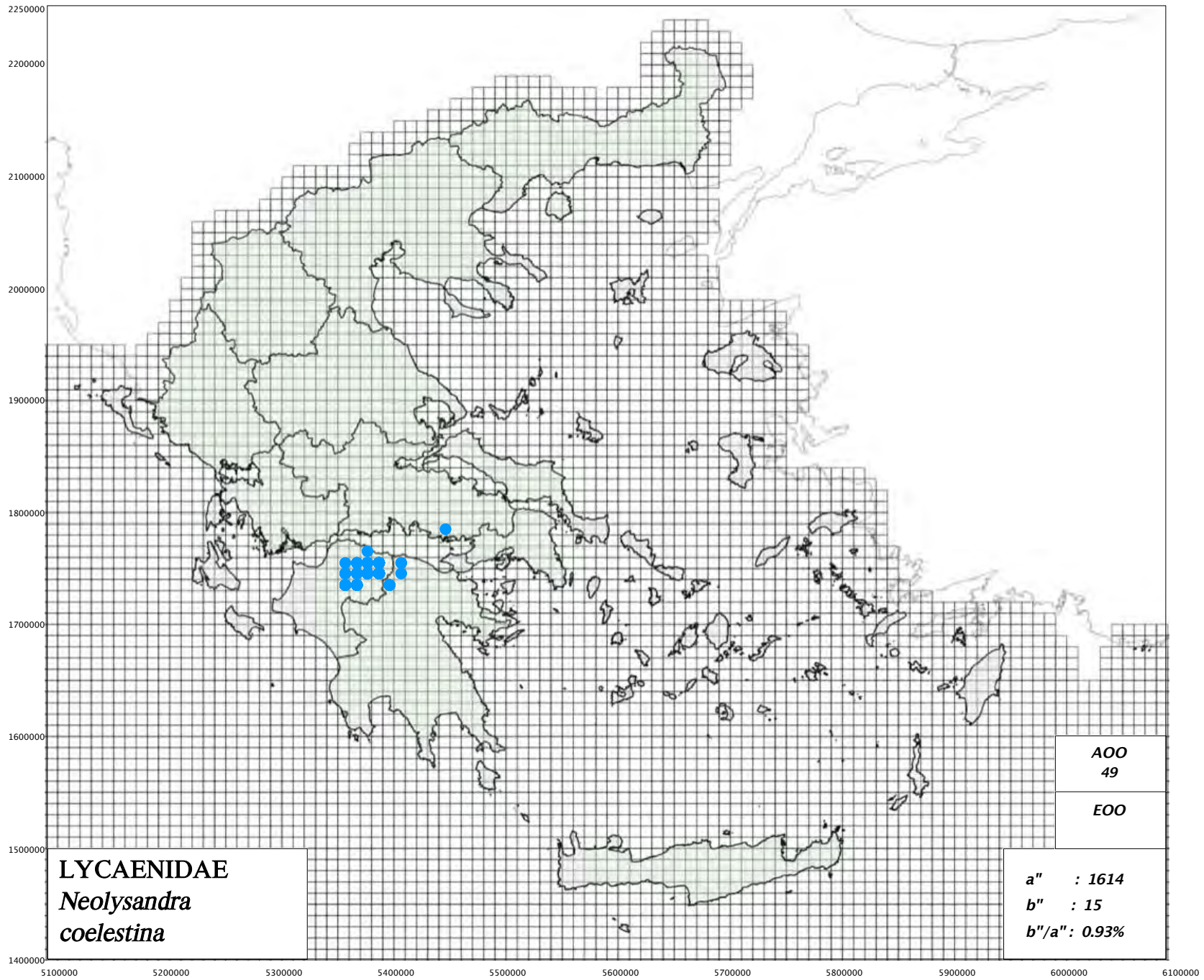


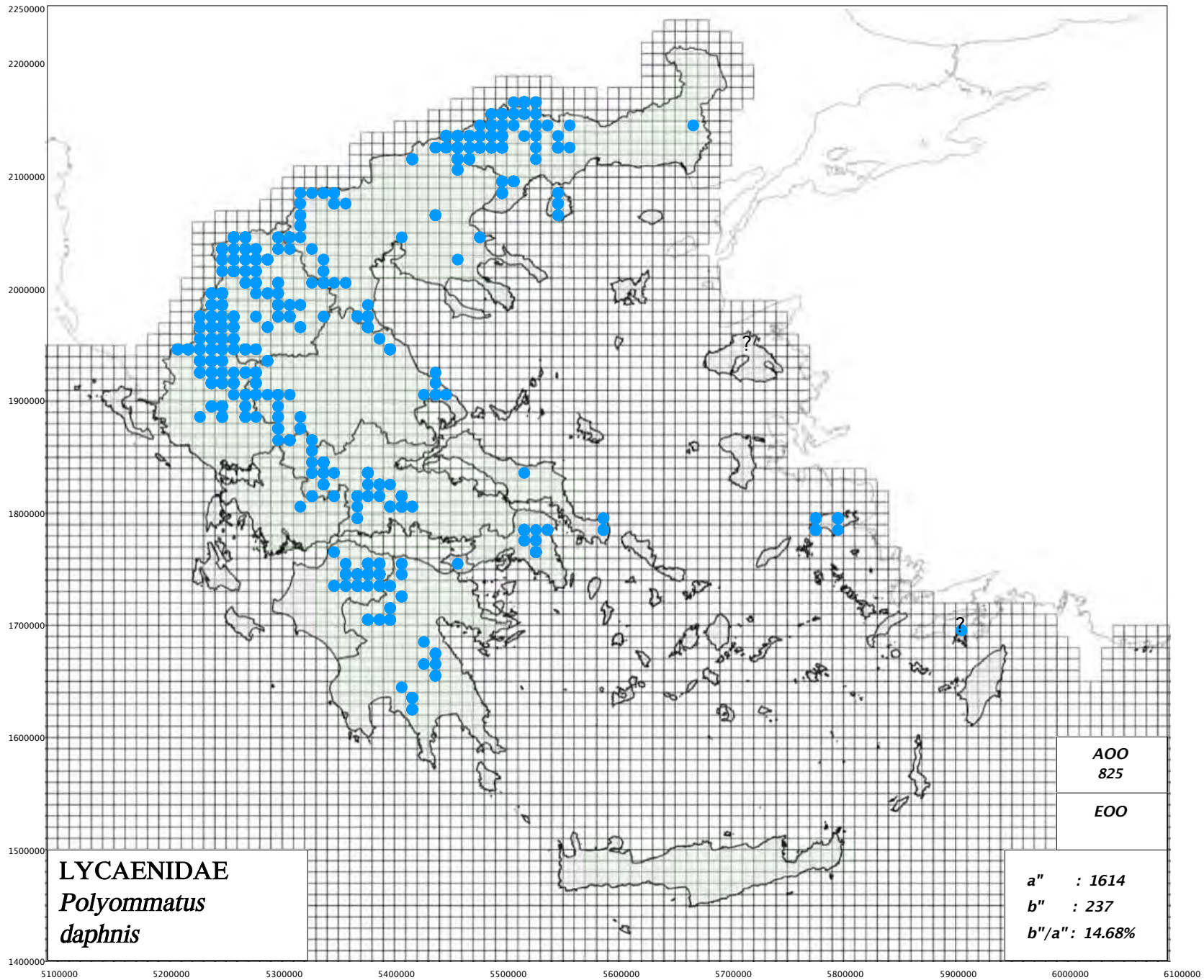


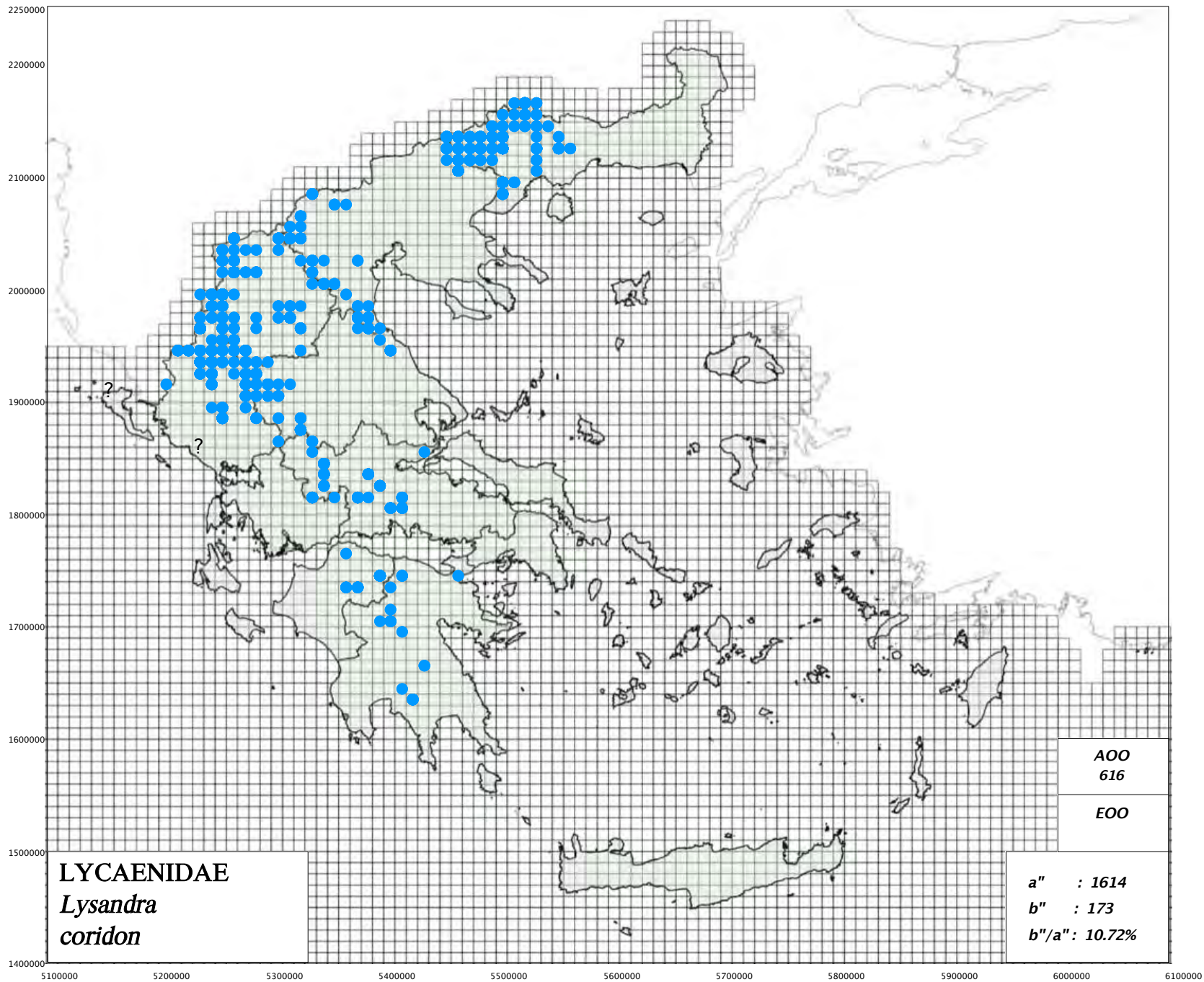
Temporarily some question marks (?) on Map are for the new *Polyommatus orphicus eleniae*, a new subspecies as suggested by VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula.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

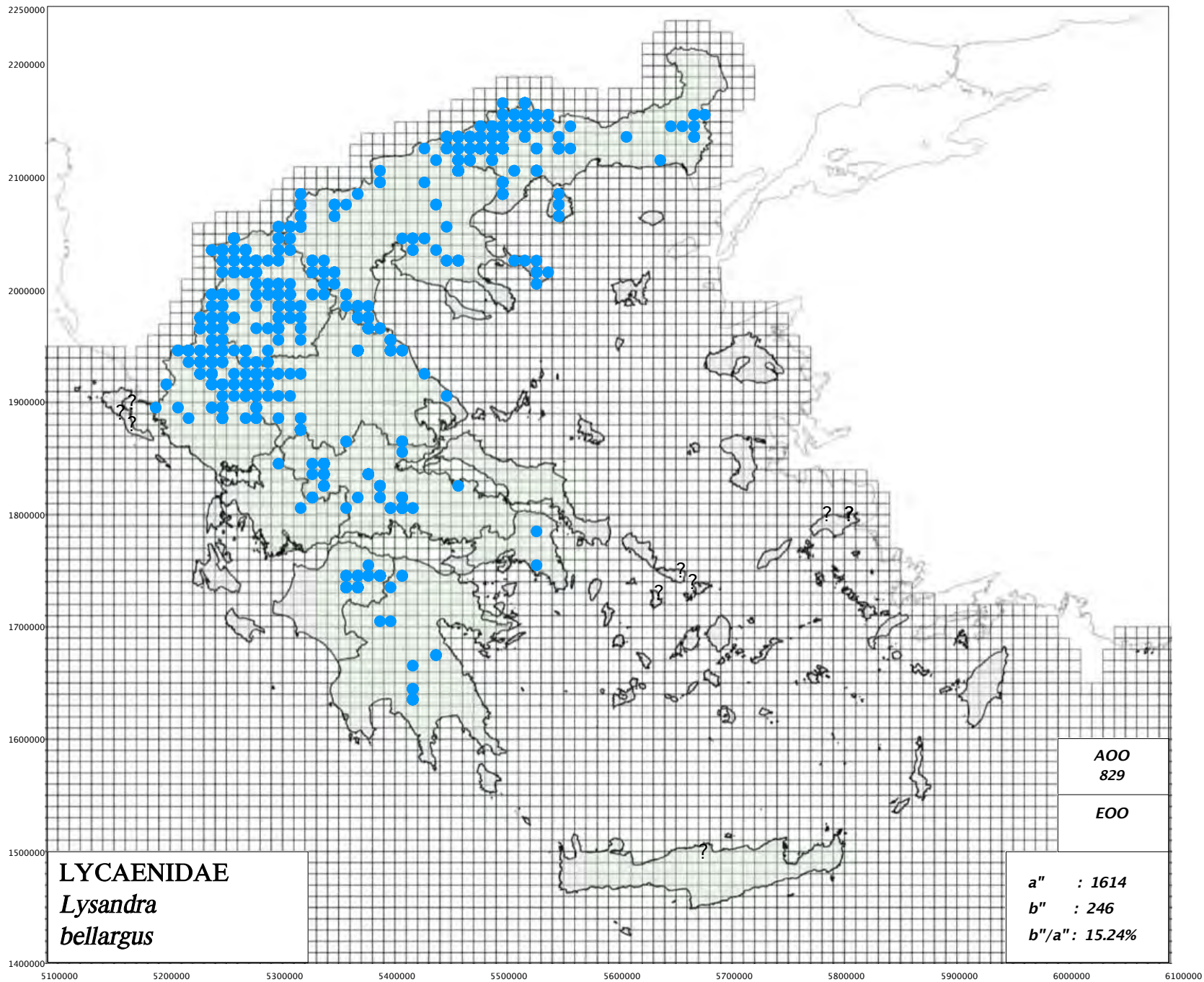
Προσωρινά στον Χάρτη υπάρχουν ερωτηματικά (?) για το *Polyommatus orphicus eleniae*, το οποίο έχει προταθεί με το VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. *Comparative Cytogenetics* 10(5): 1-85. <https://doi.org/10.3897/CompCytogen.v10i5.10944>



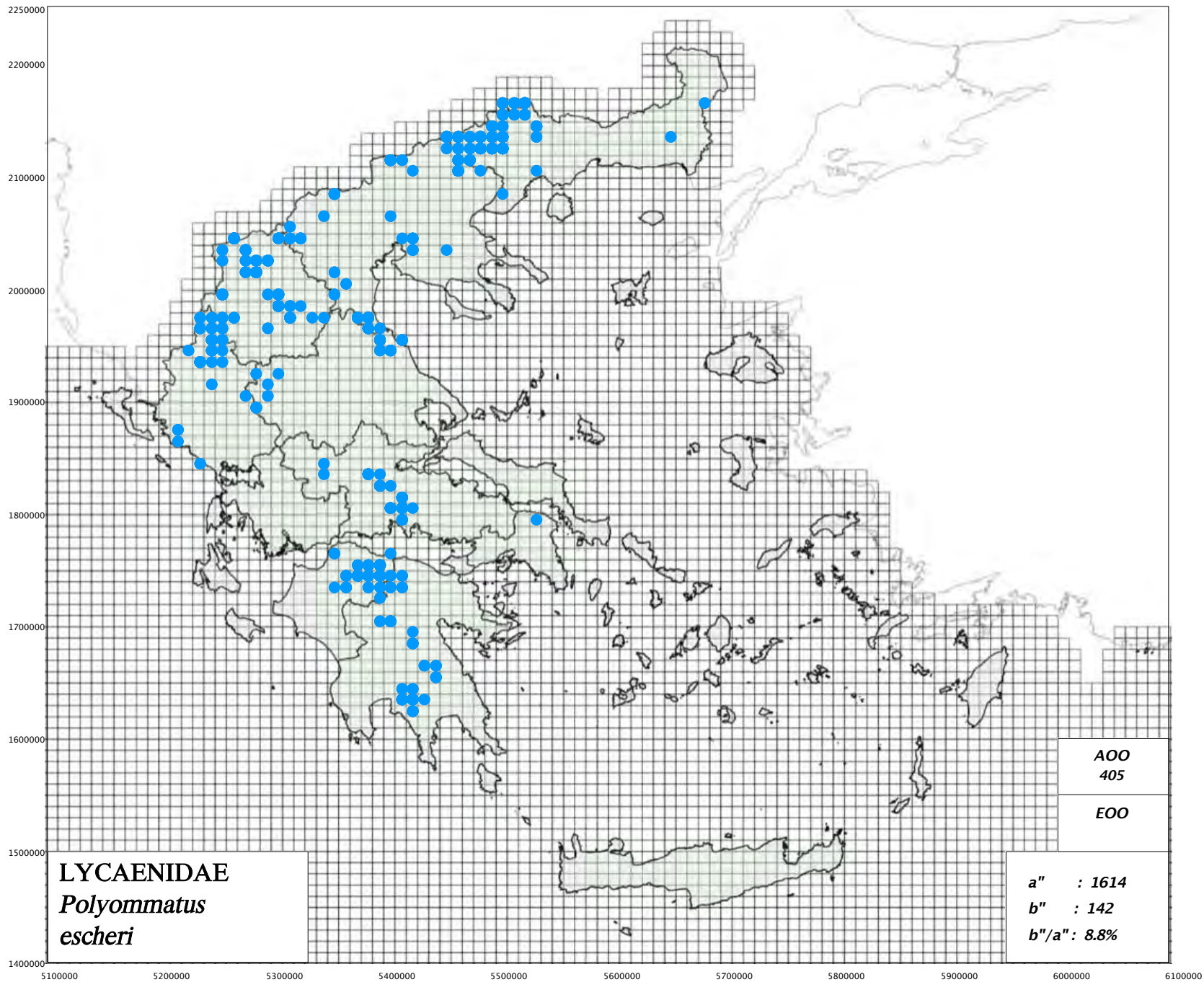




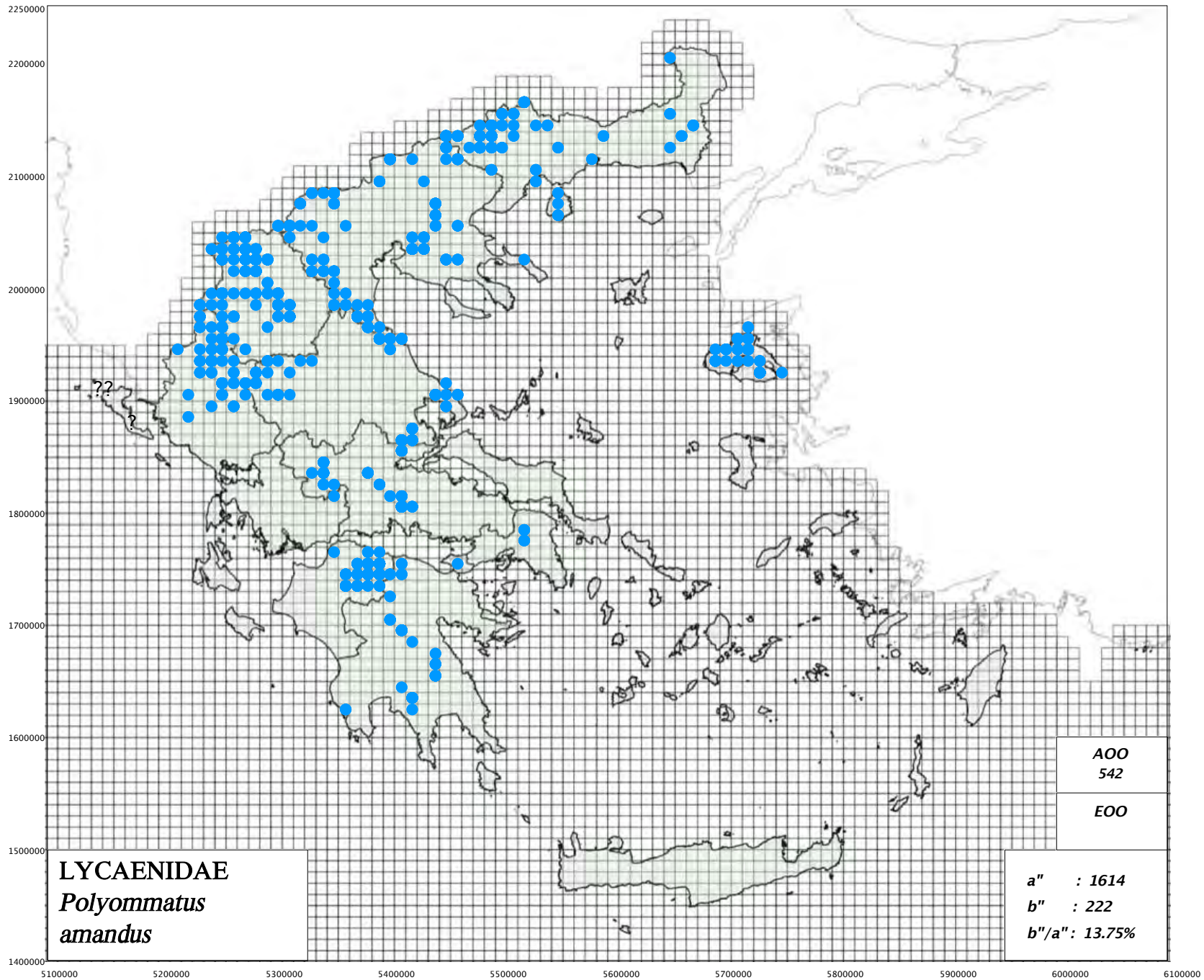


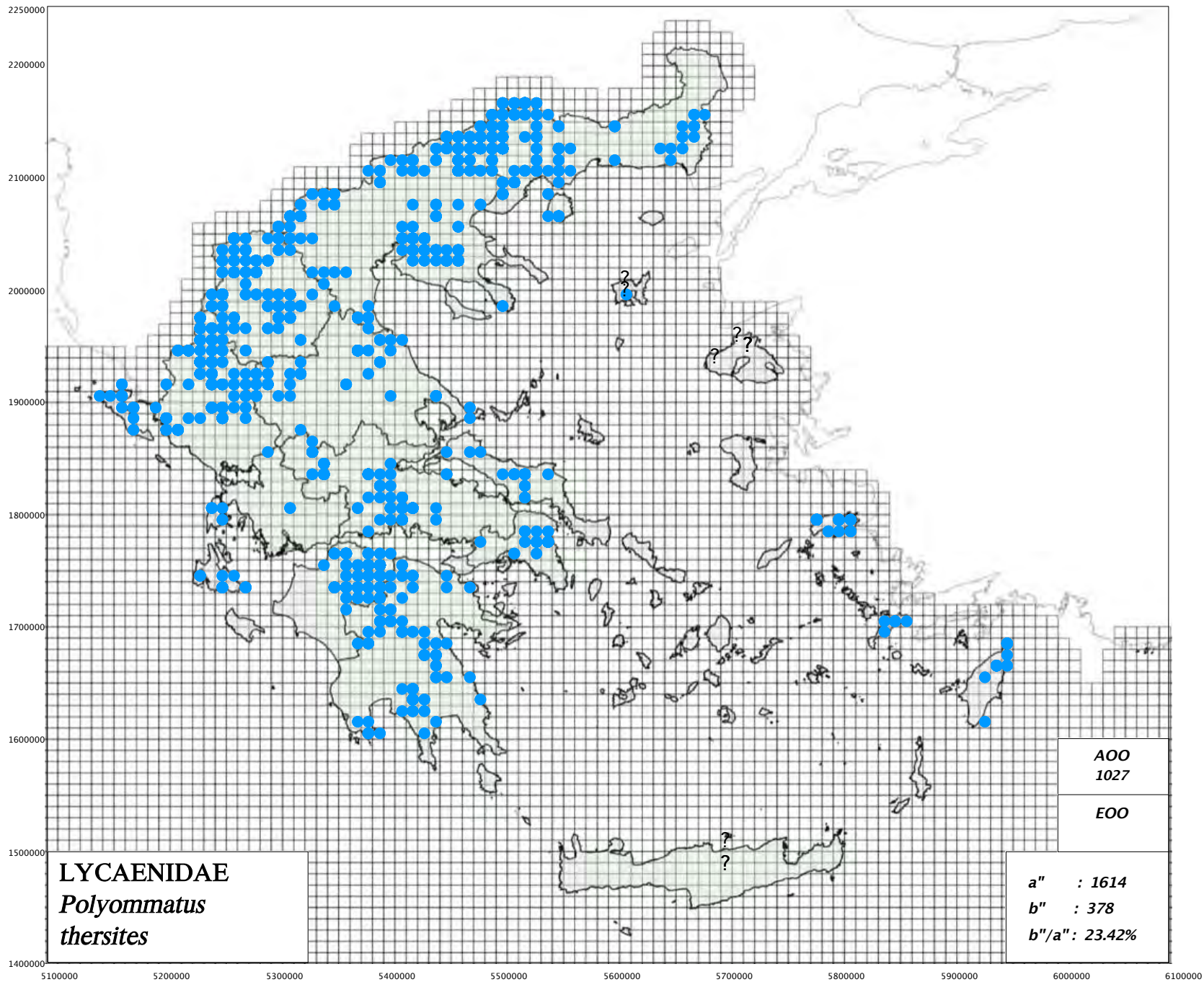


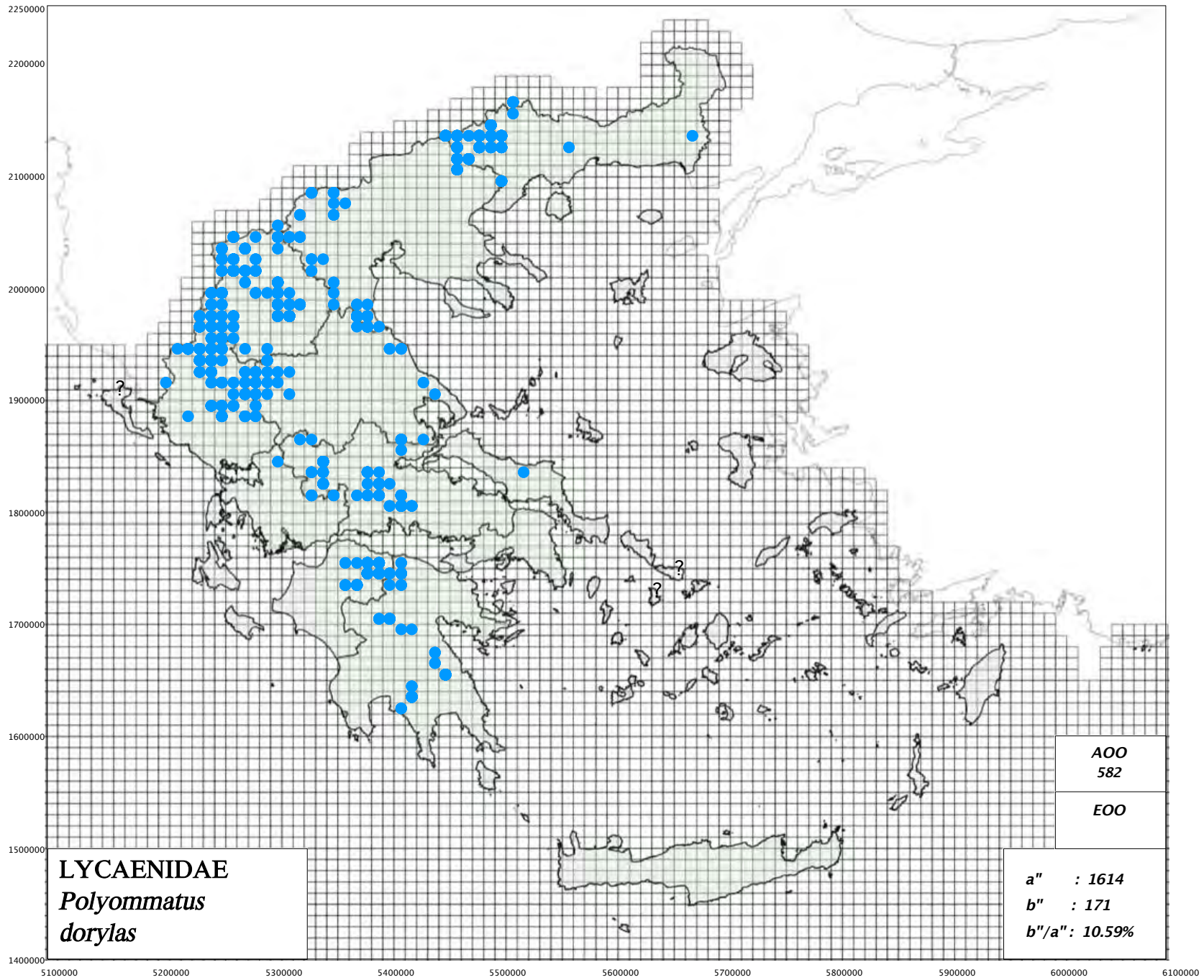
http://www.pamperis.gr/PHOTOGRAPHS/Lysandra_coridon,_Lysandra_bellargus.html

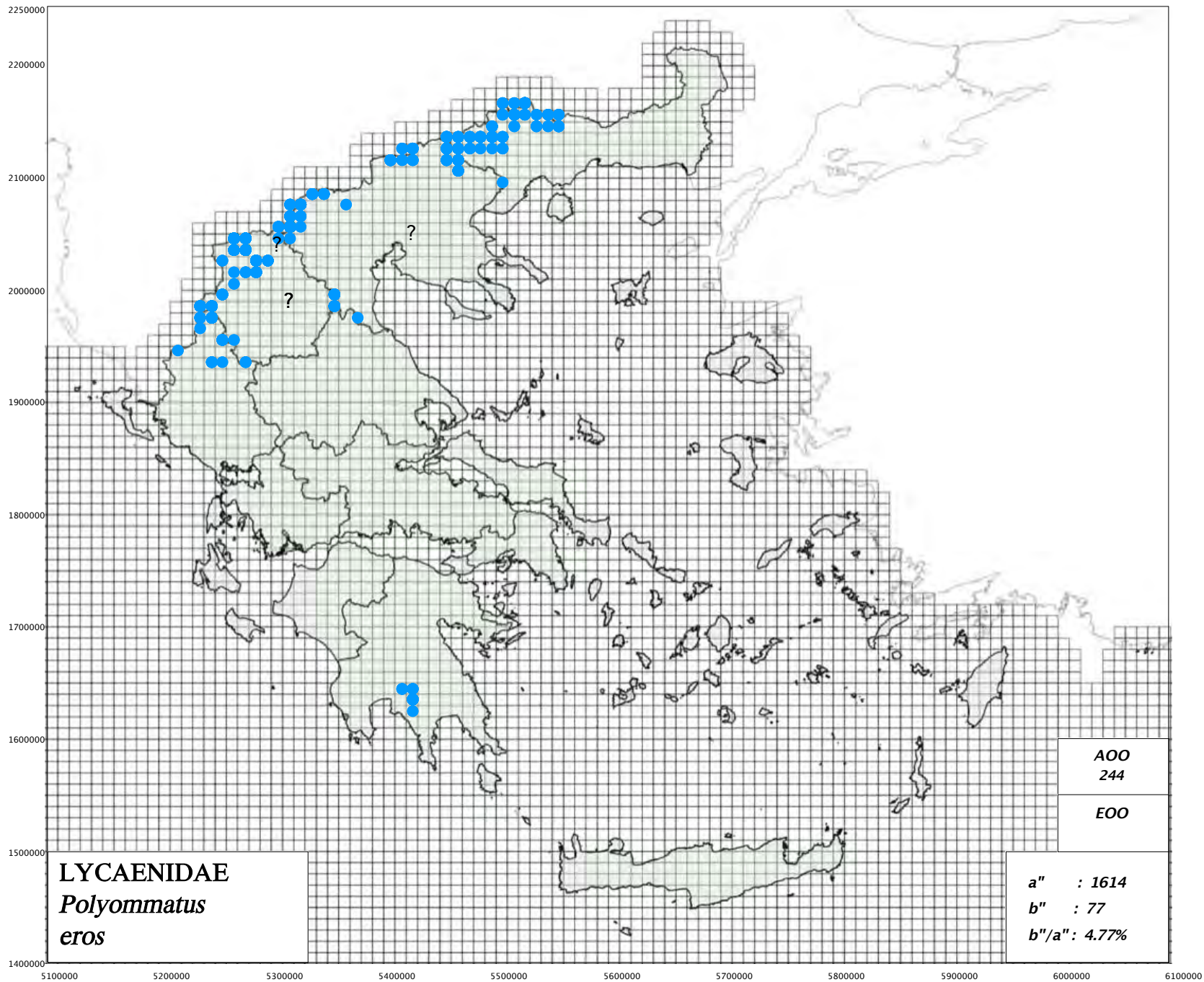


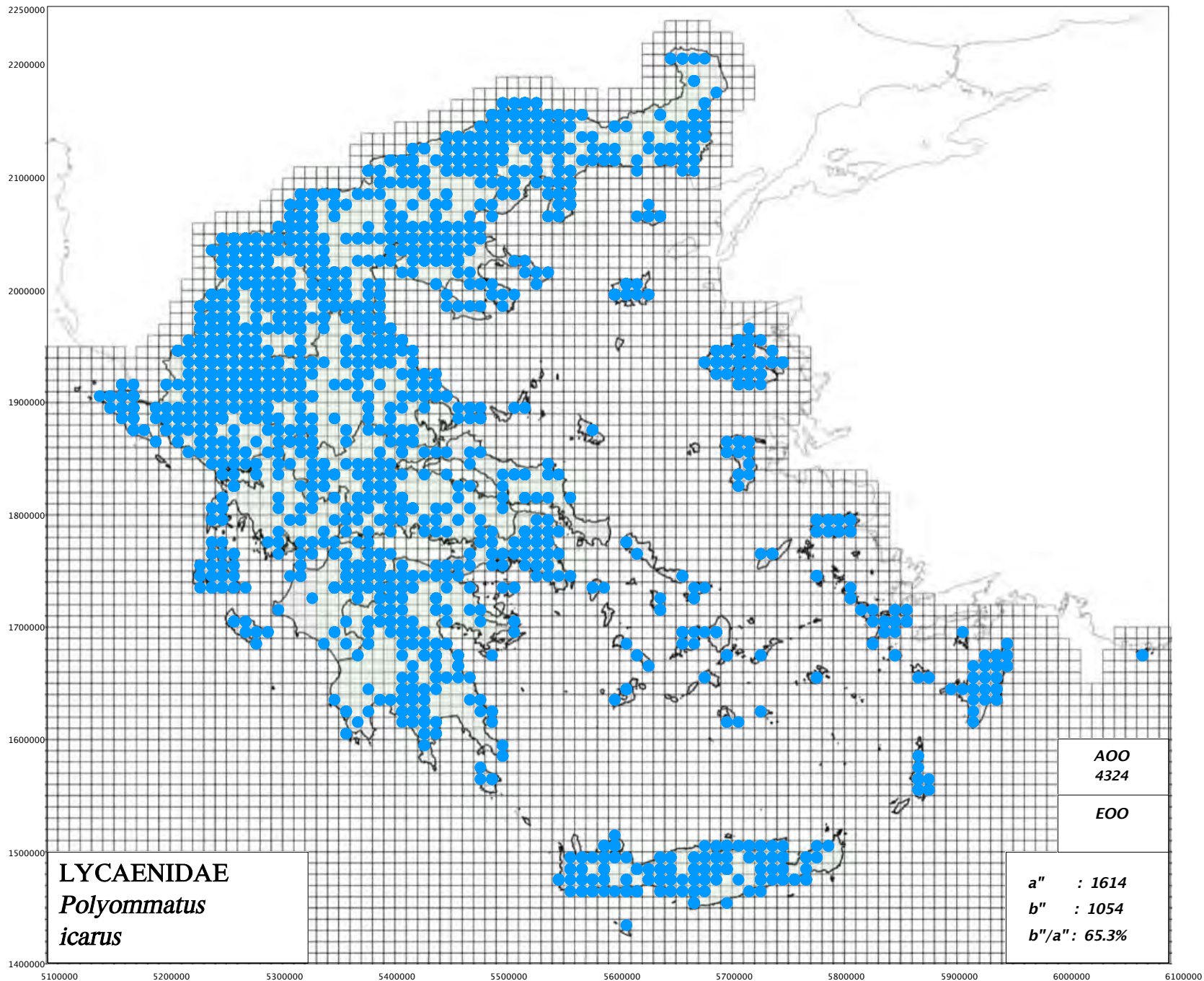
http://www.pamperis.gr/PHOTOGRAPHS/Polyommatus_escheri,_Polyommatus_thersites.html





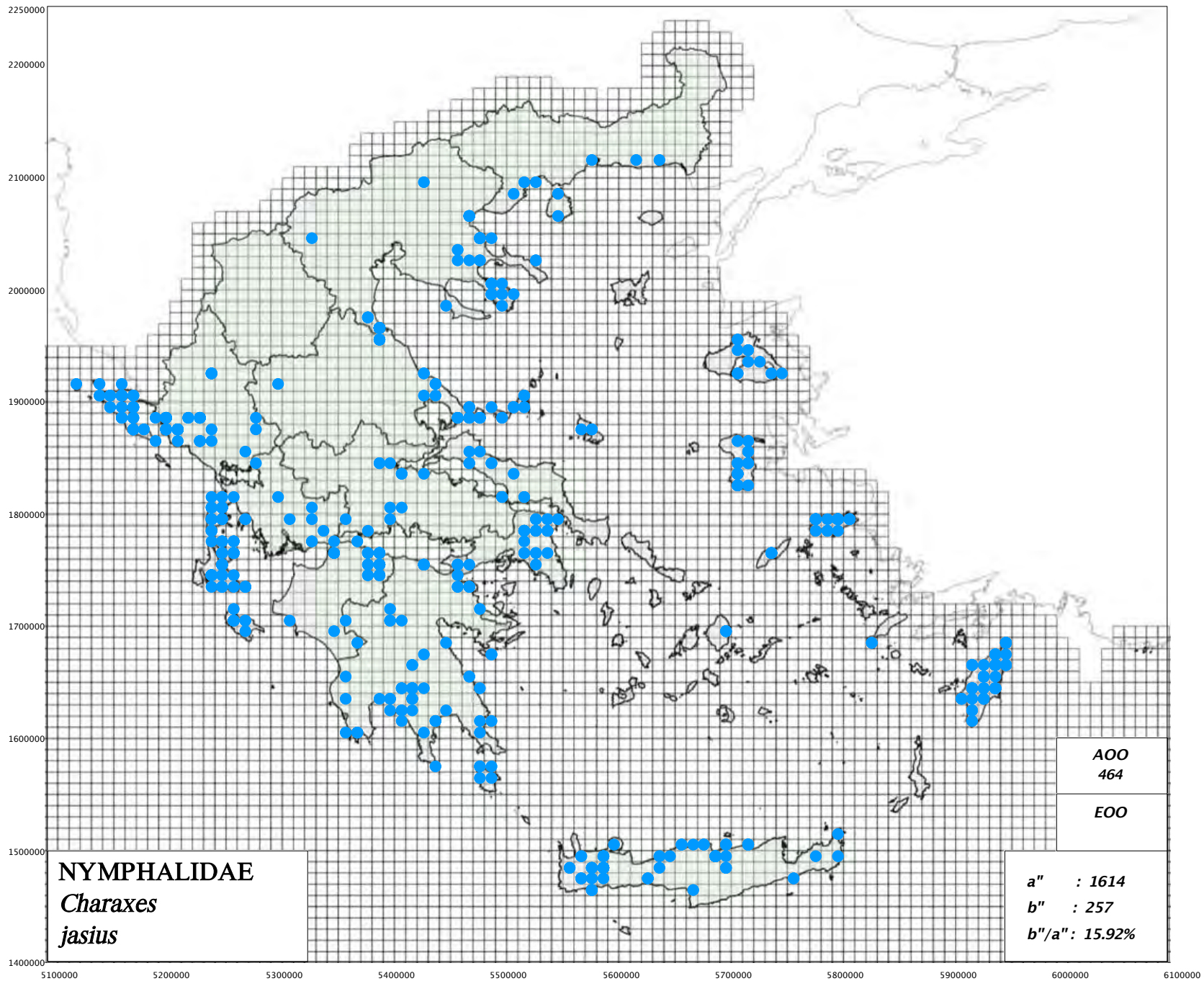


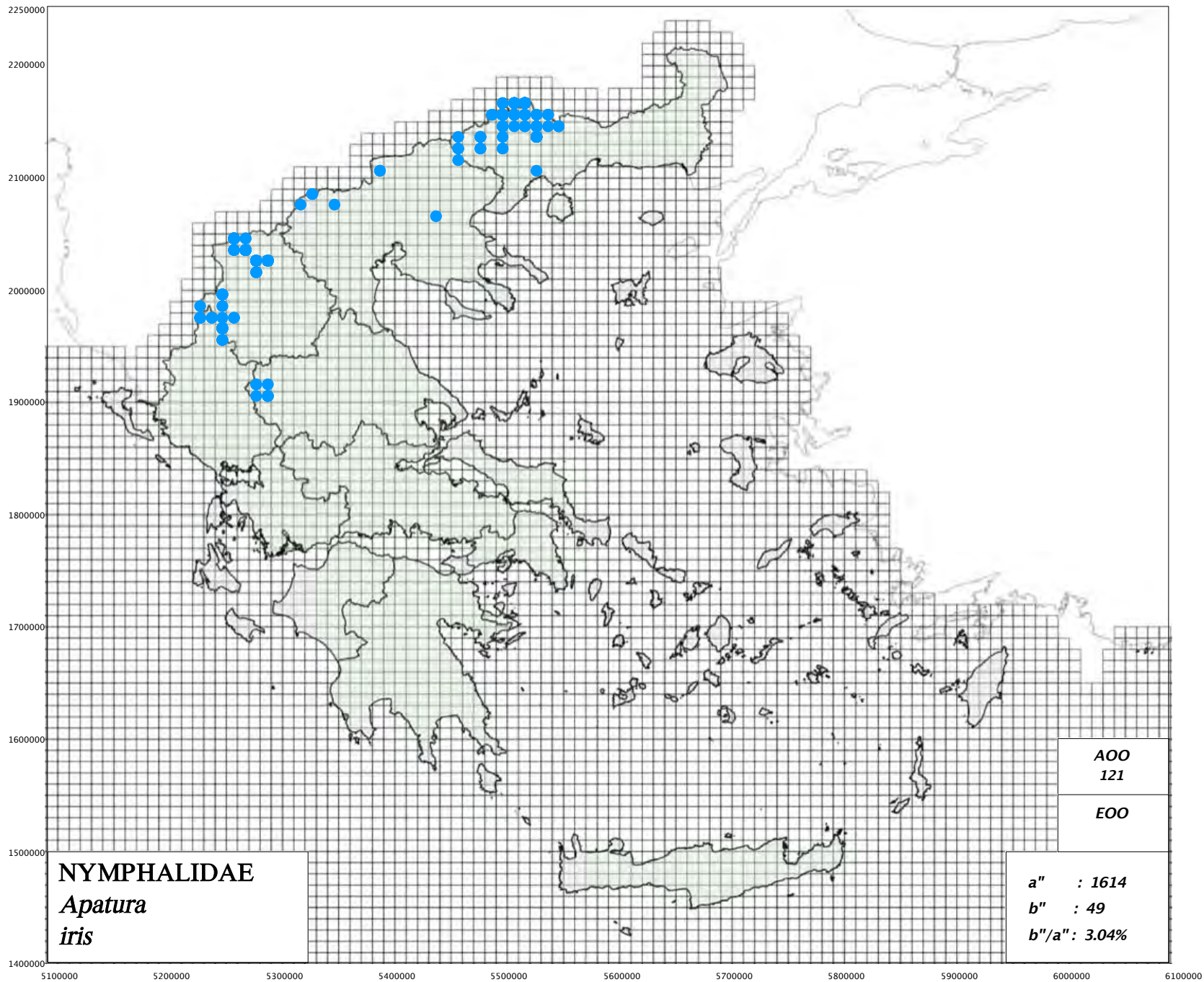


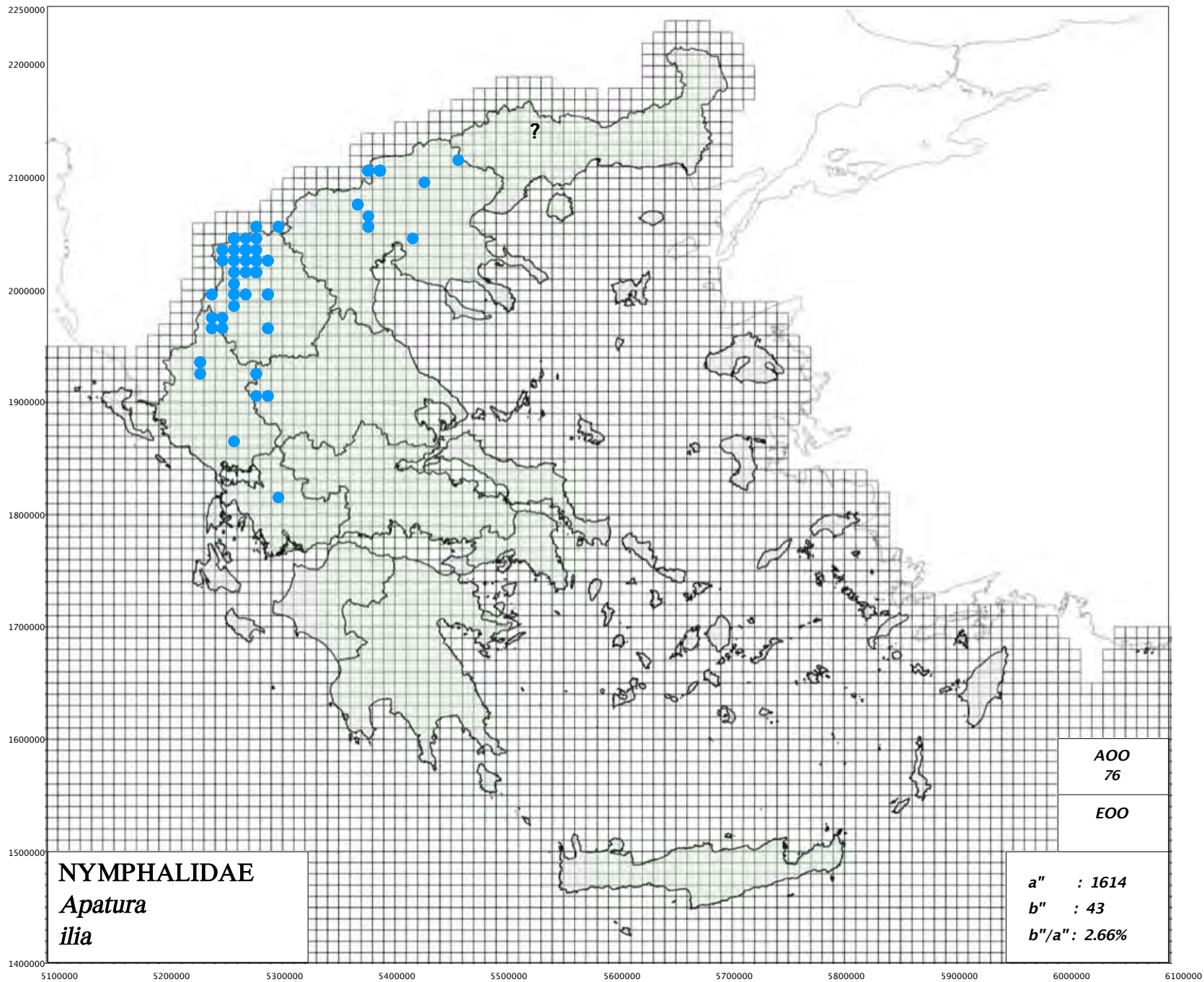


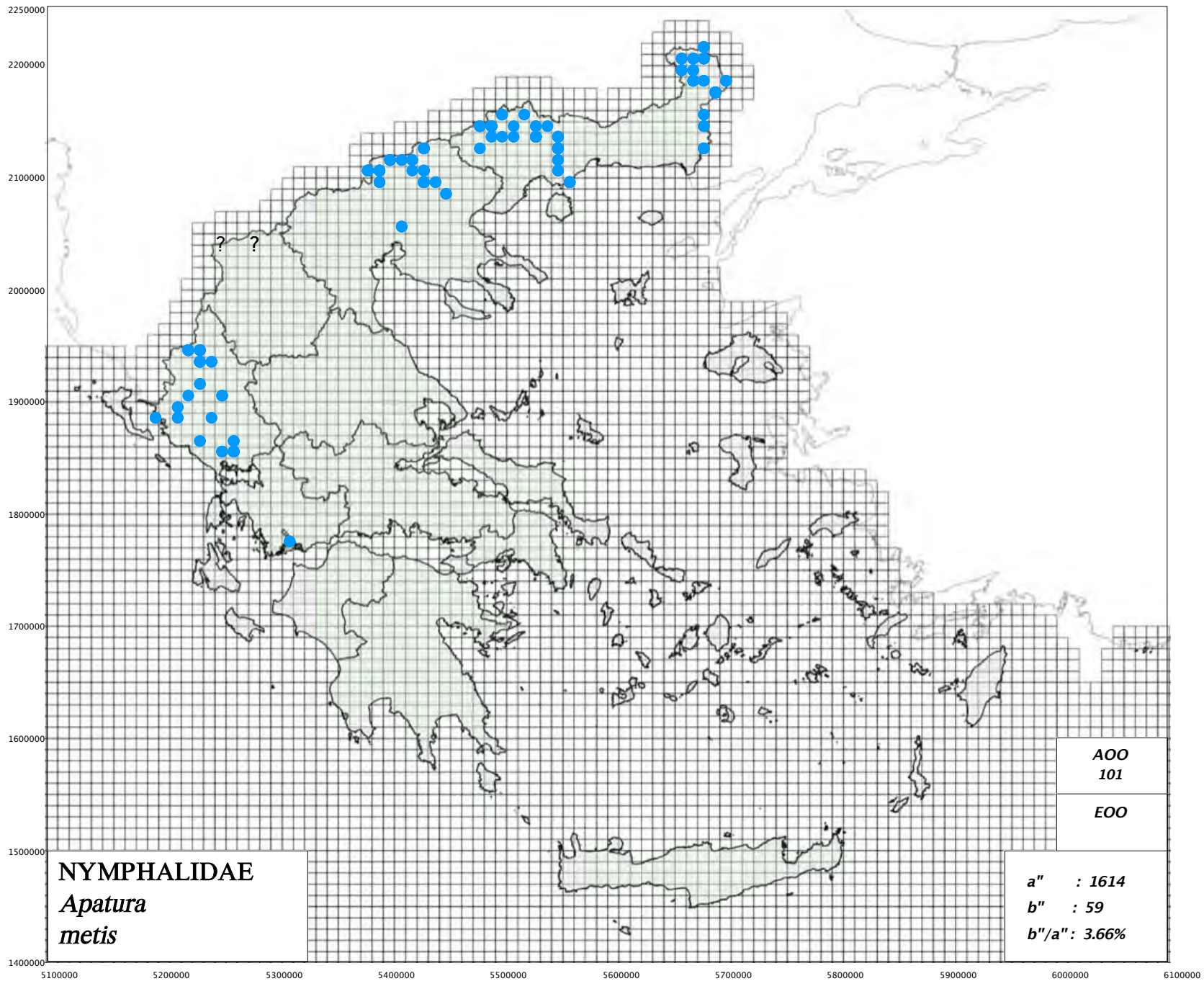
All records of *Polyommatus andronicus* (in previous Maps) are included here in the Map for *Polyommatus icarus*.

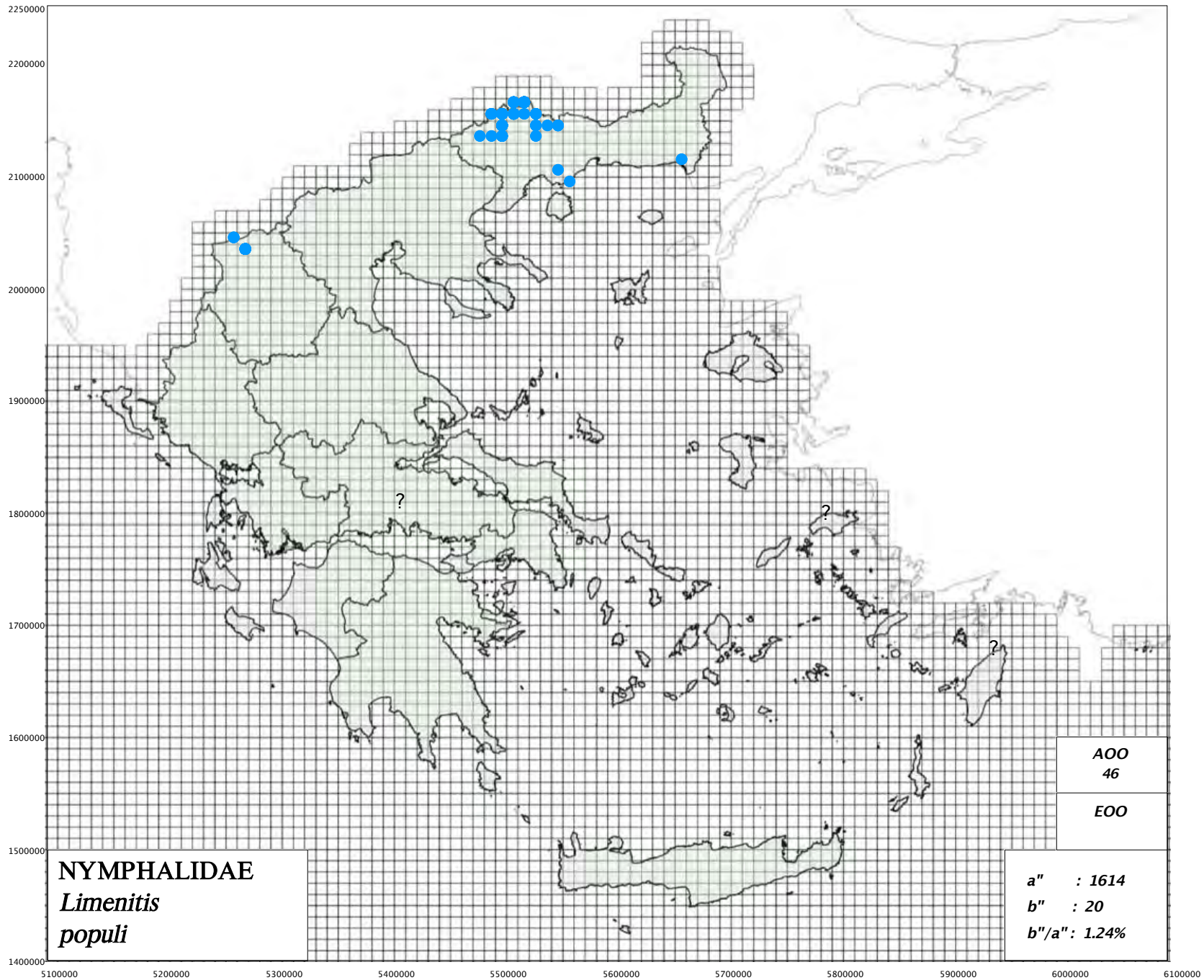
Όλες οι καταγραφές για το *Polyommatus andronicus* των προηγούμενων Χαρτών έχουν συμπεριληφθεί εδώ στον Χάρτη για το *Polyommatus icarus*

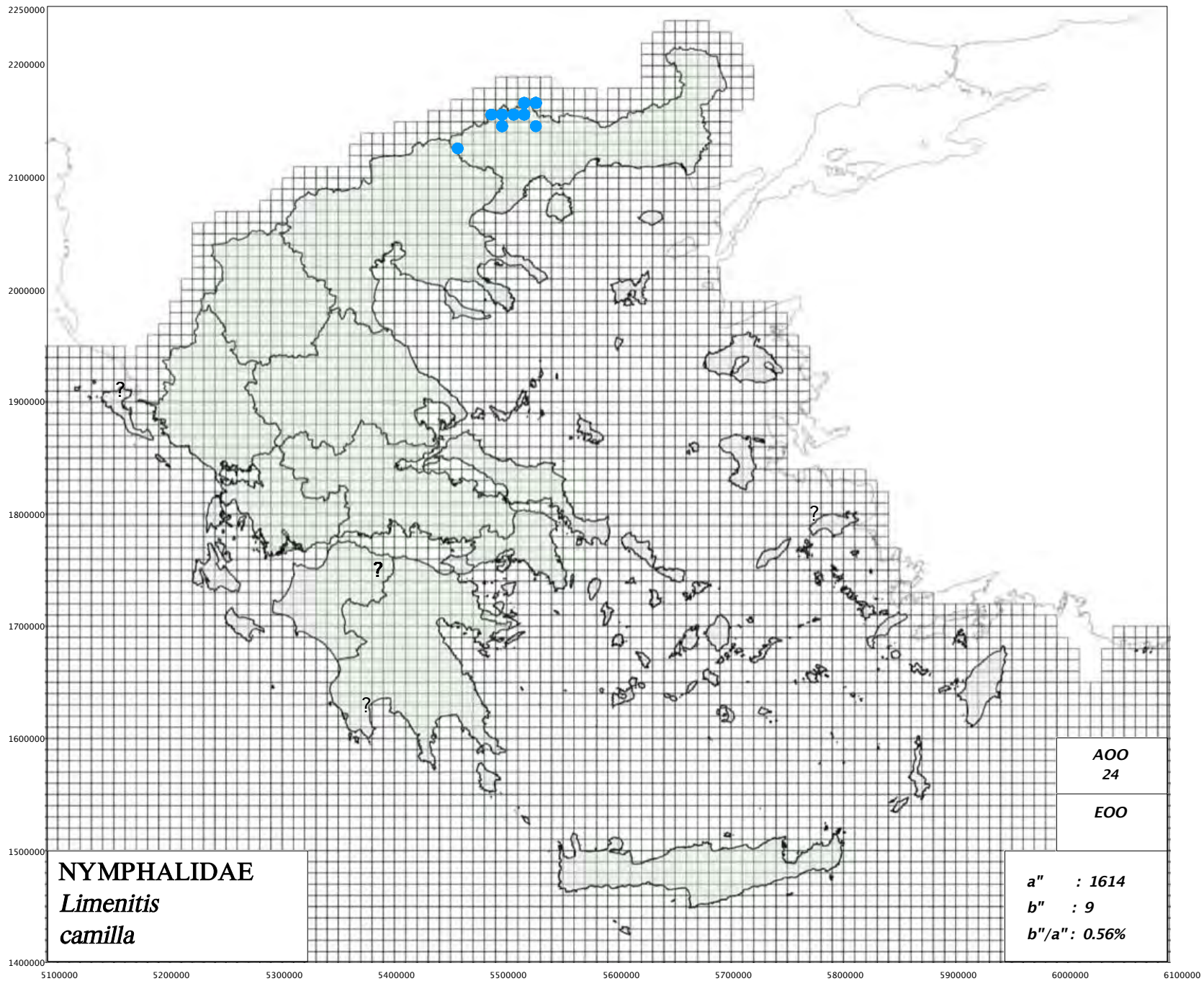


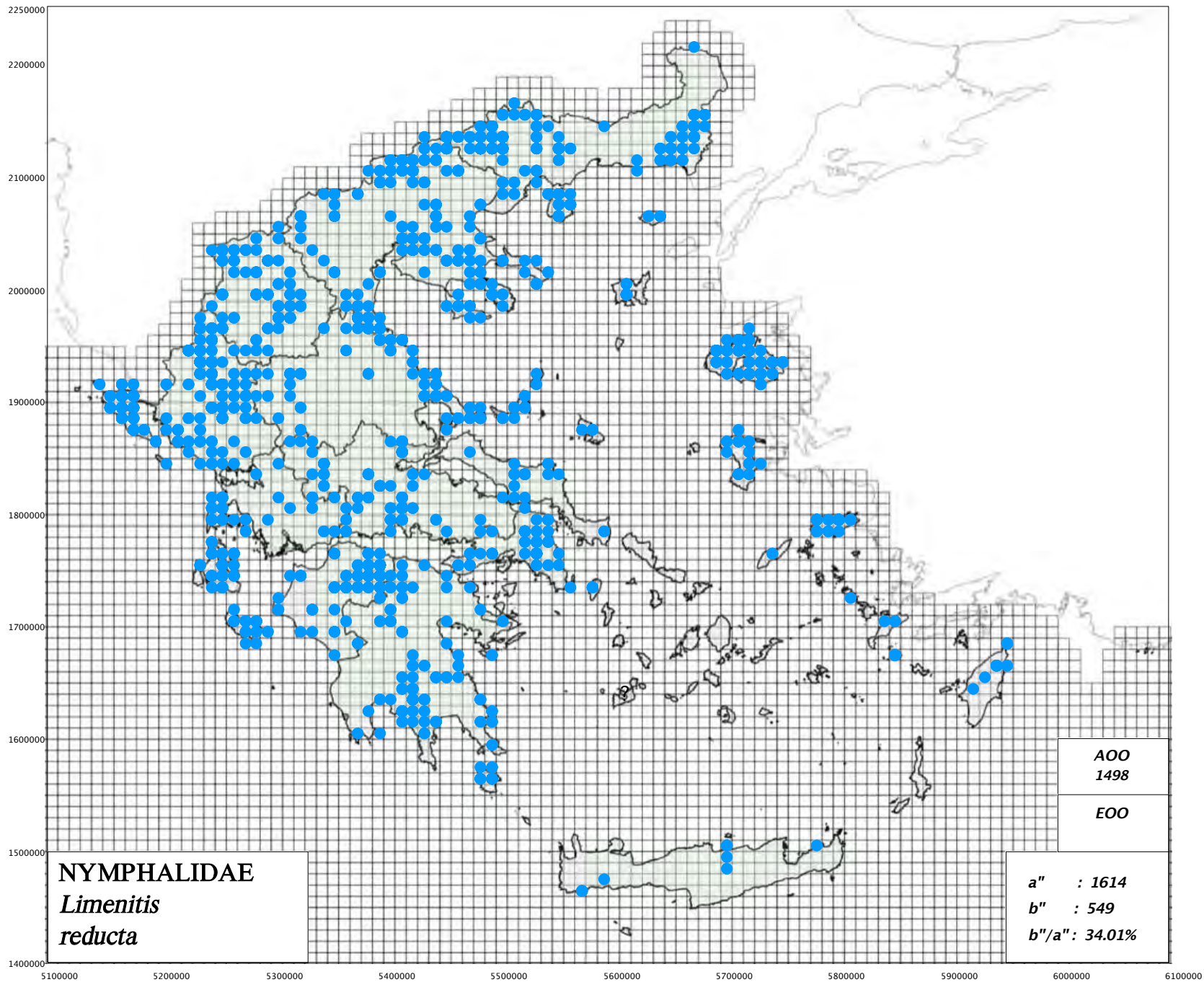


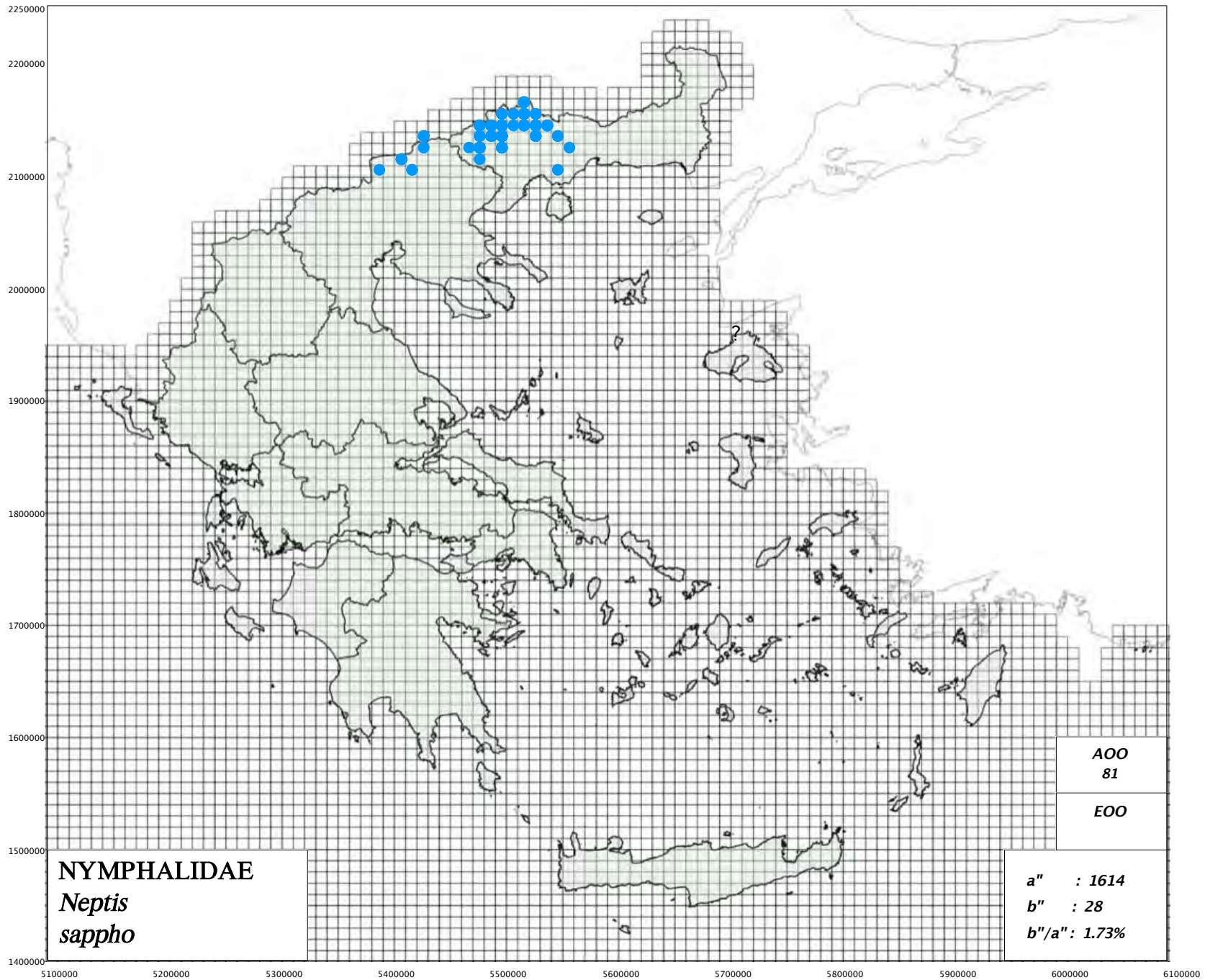




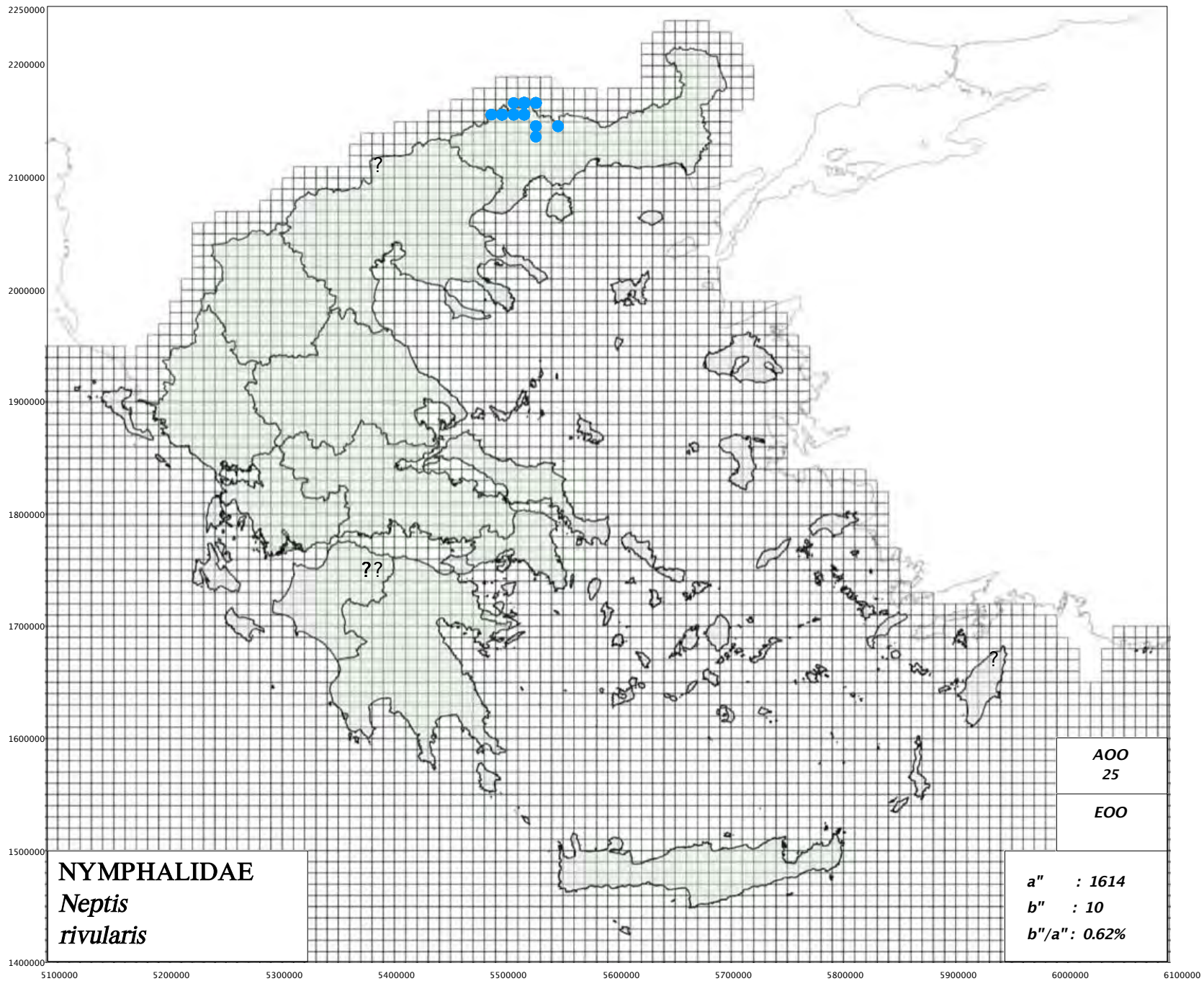


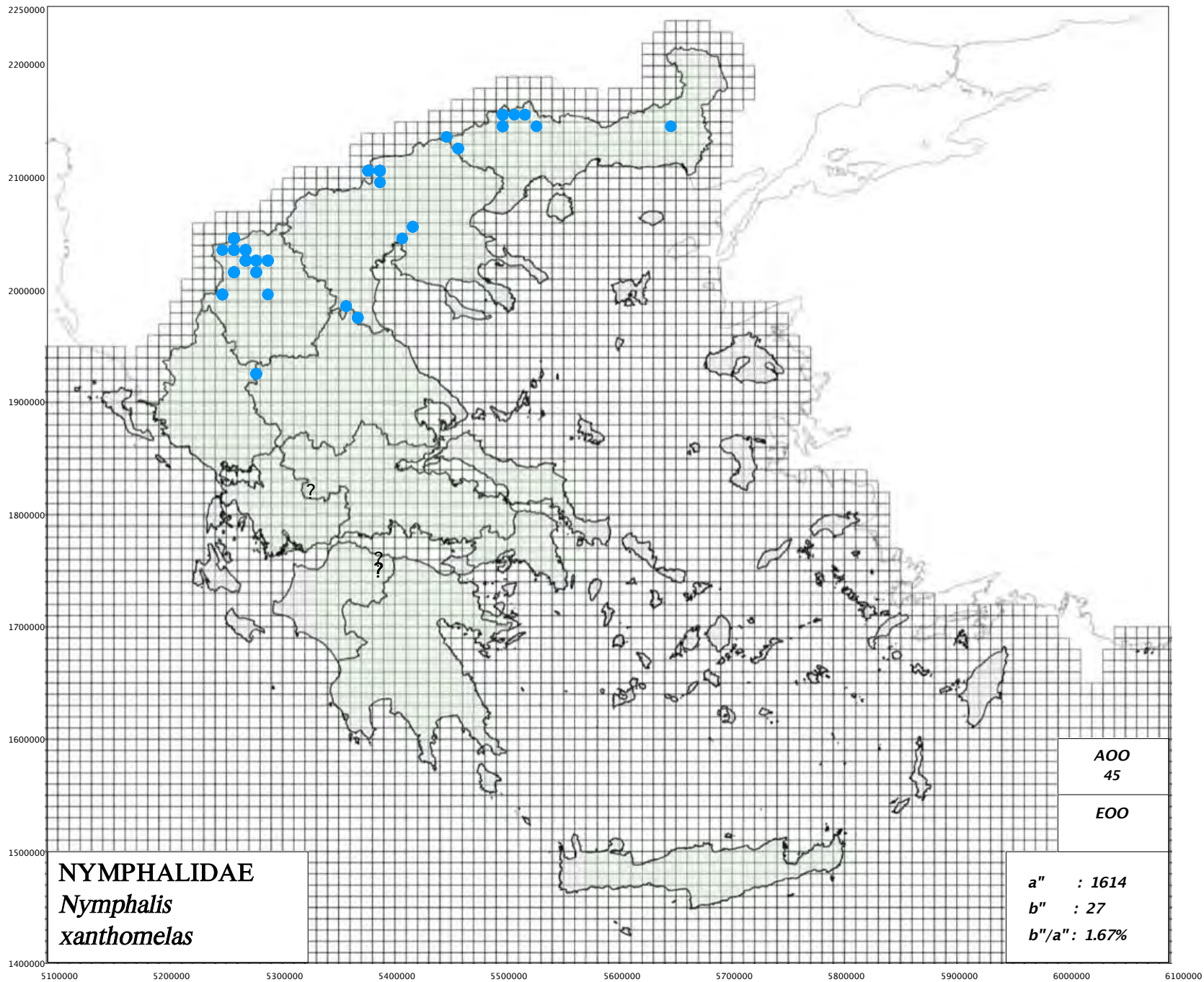


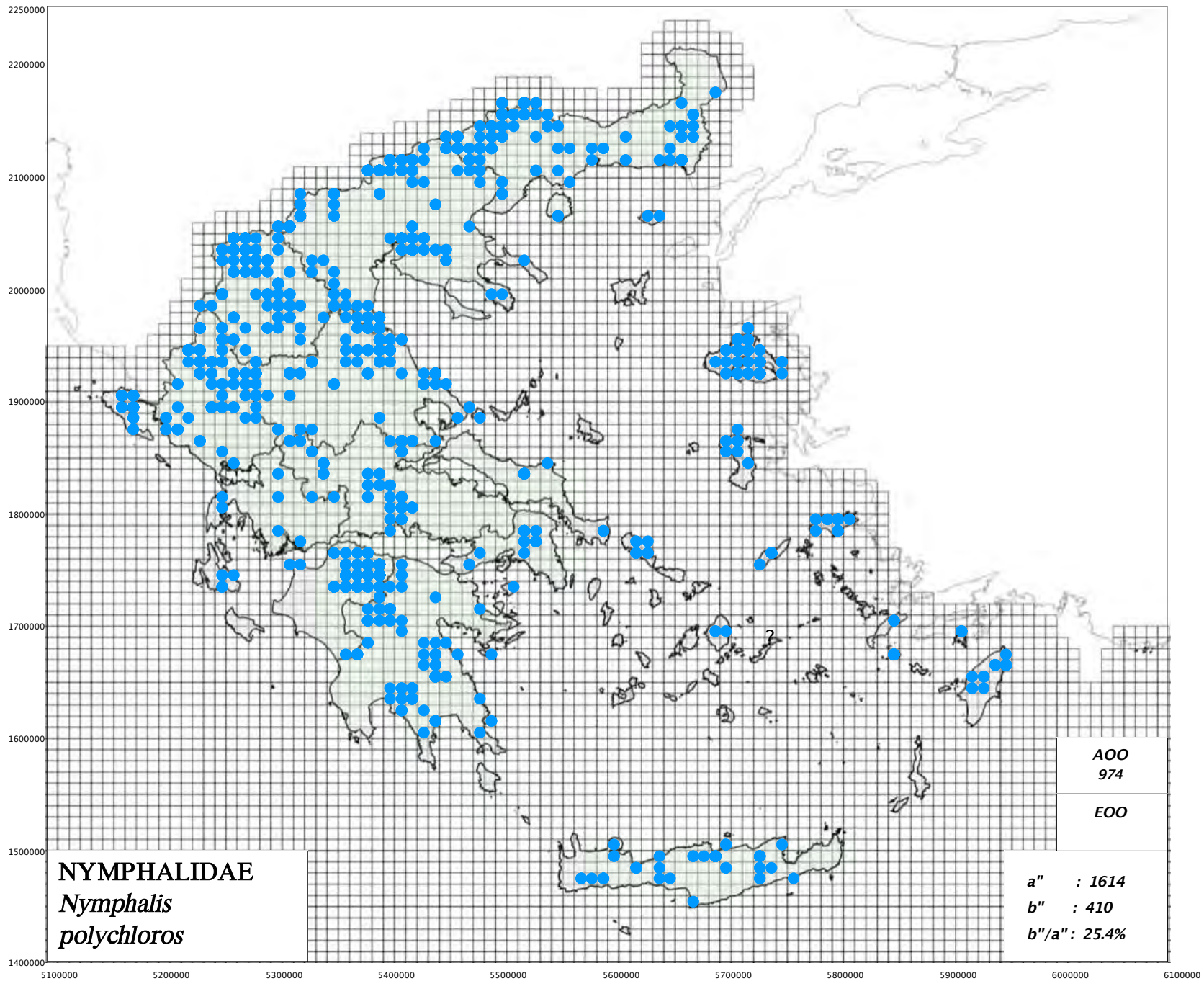


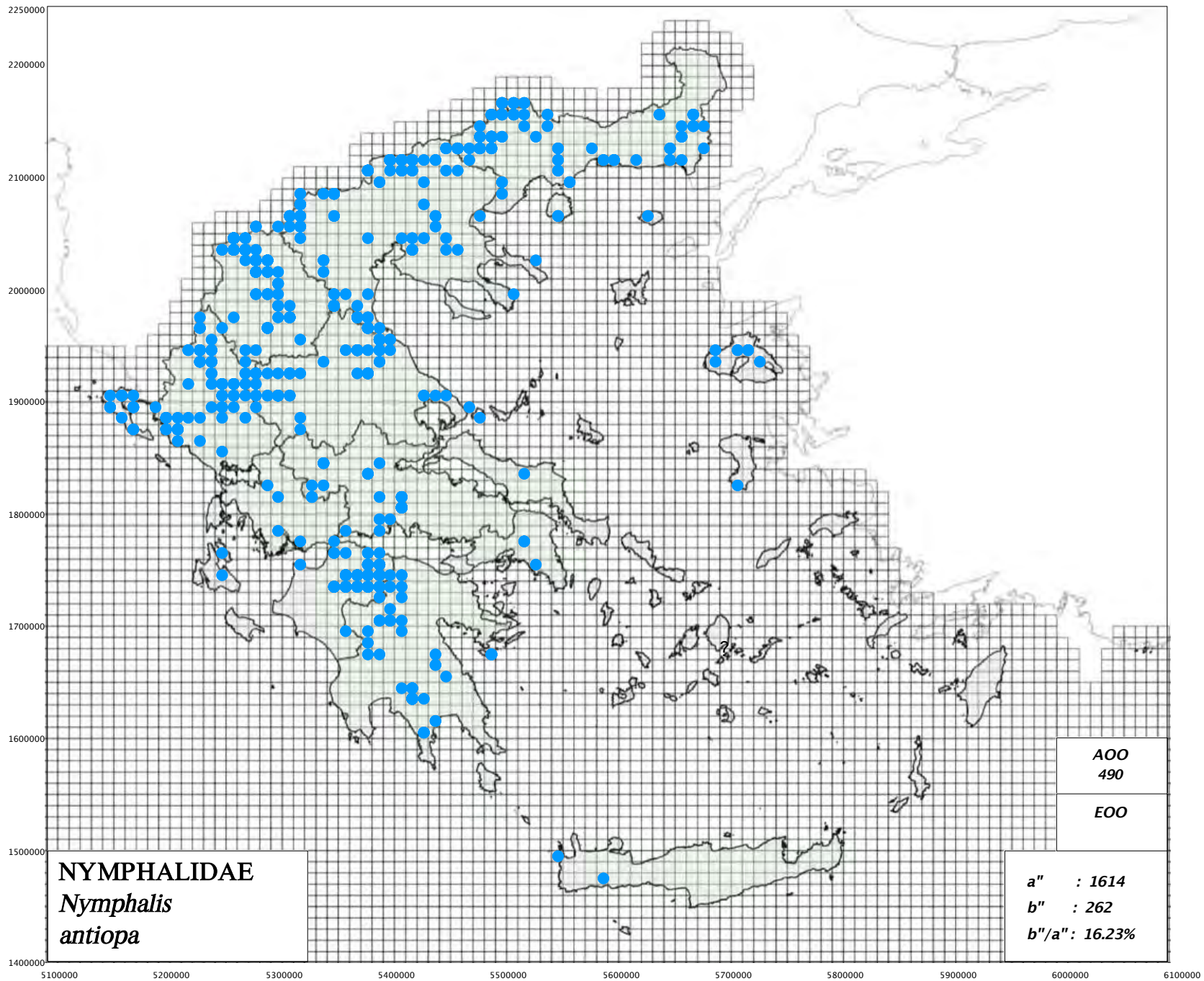


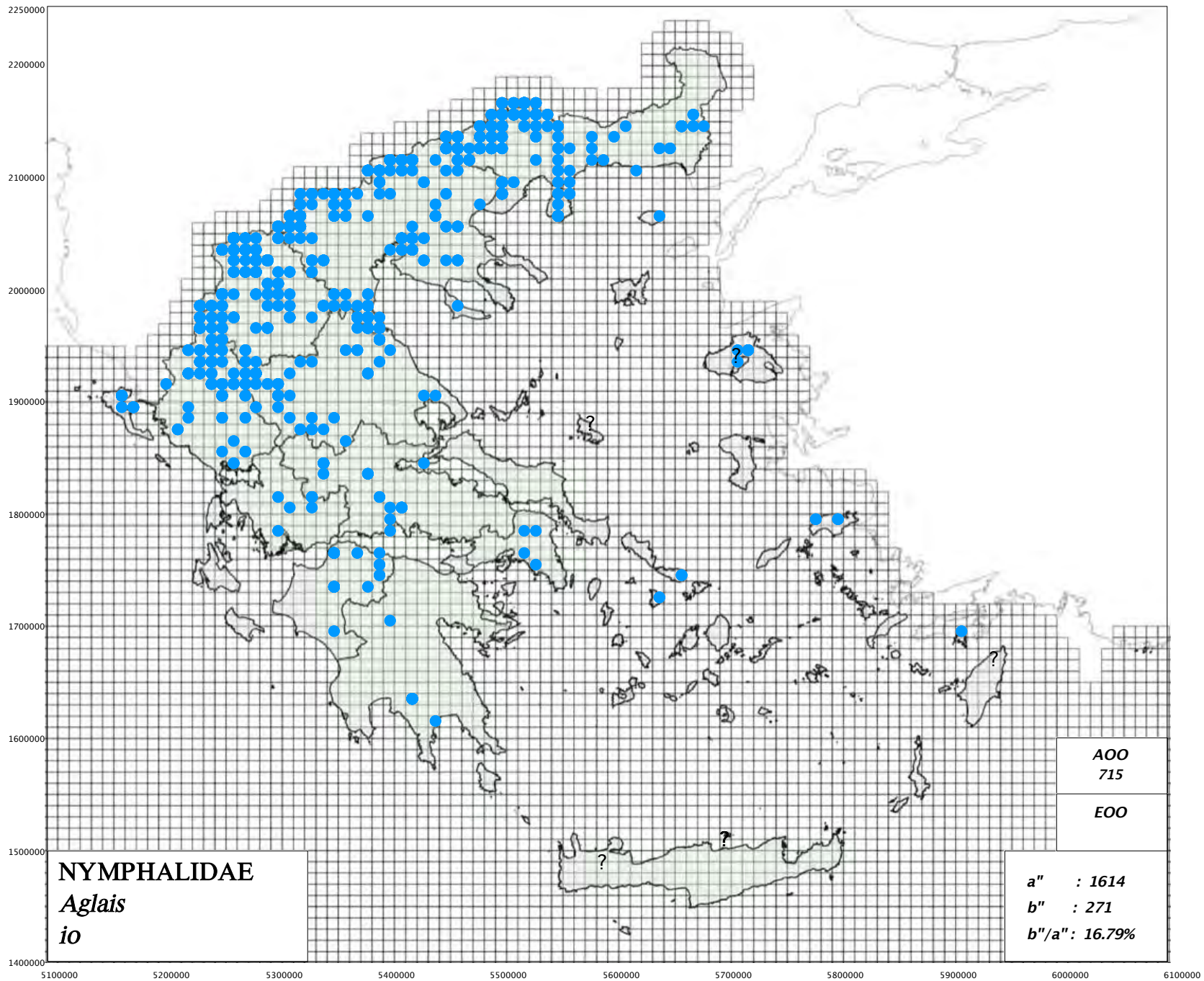
NYMPHALIDAE
Neptis
sappho

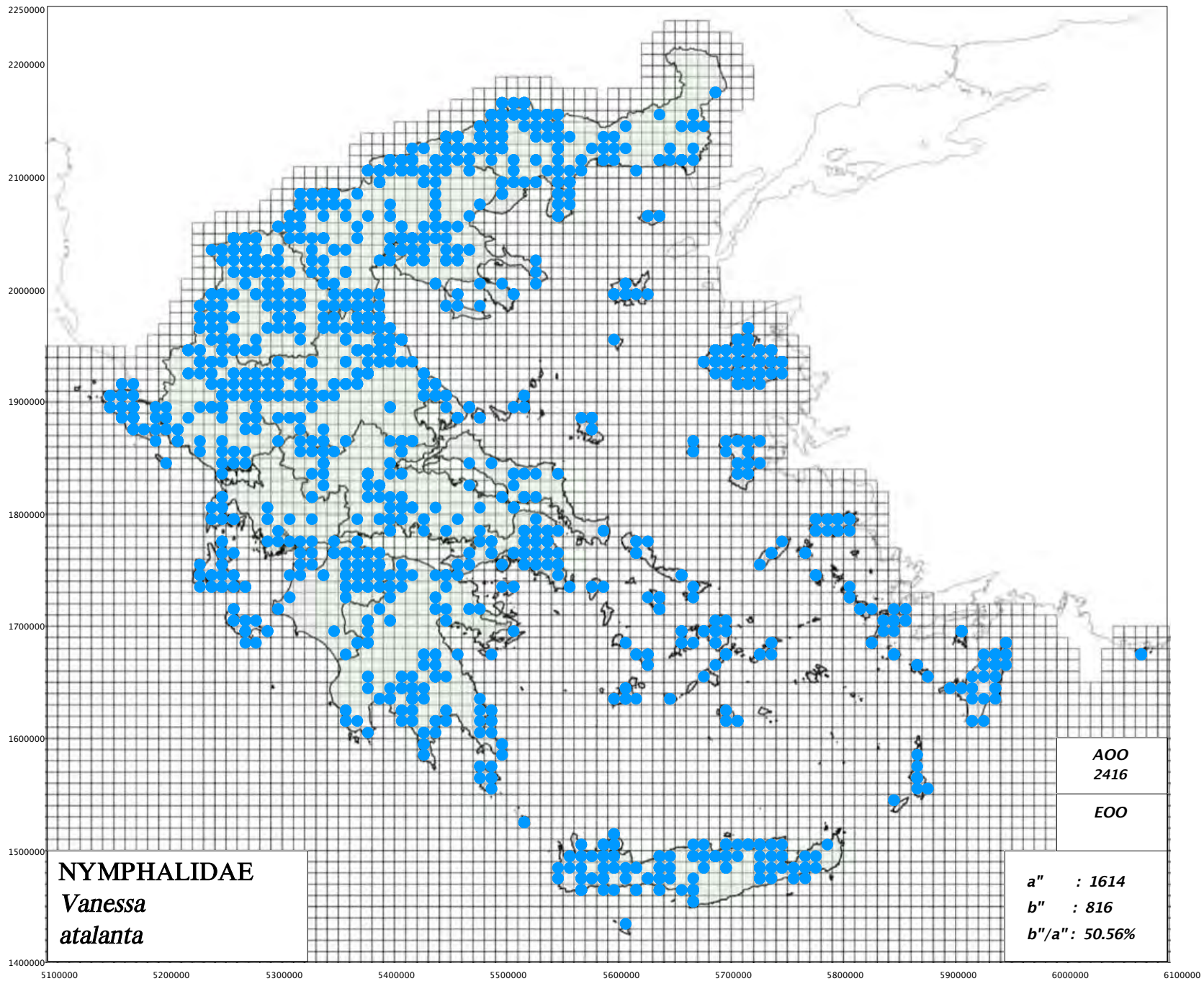


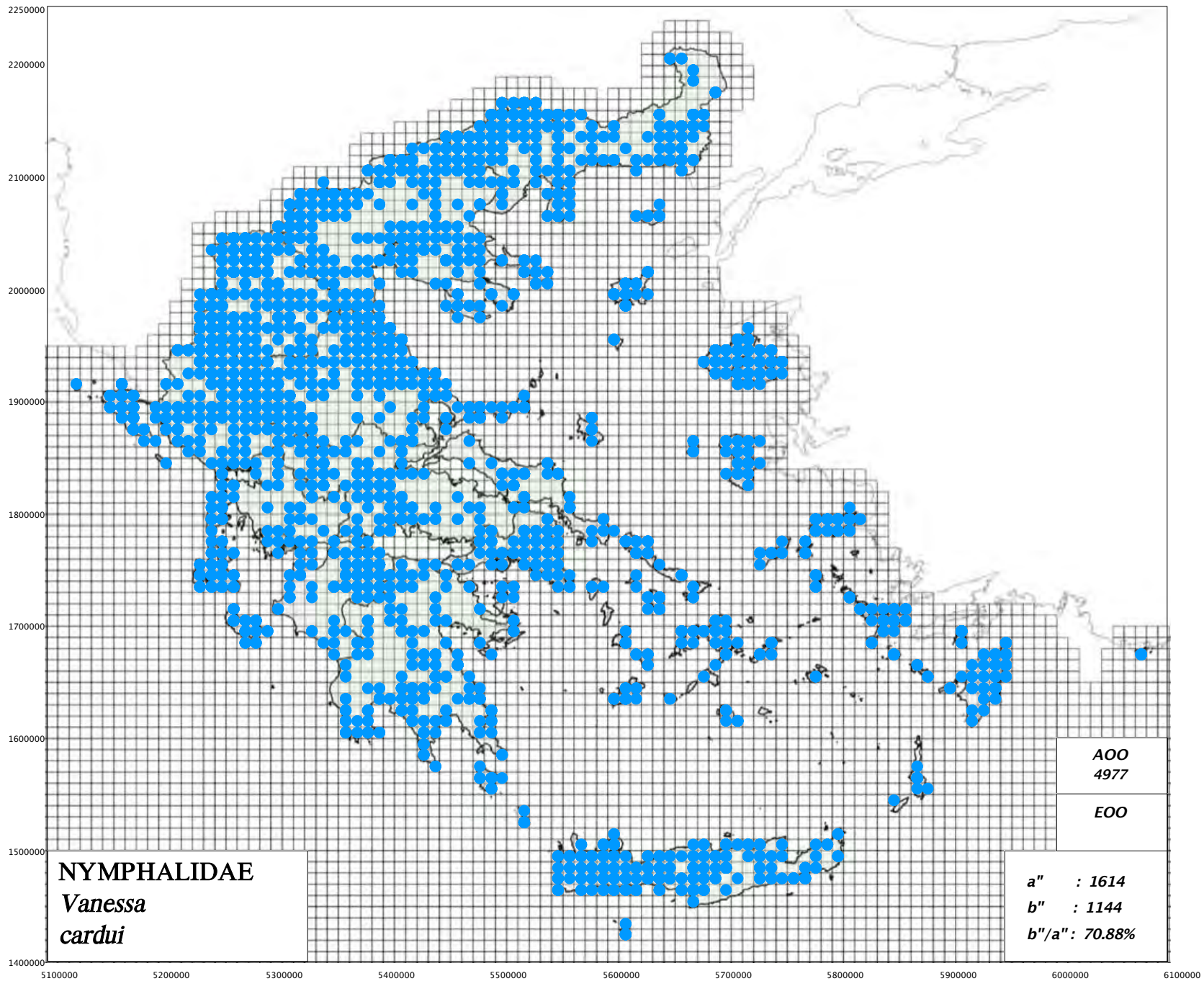


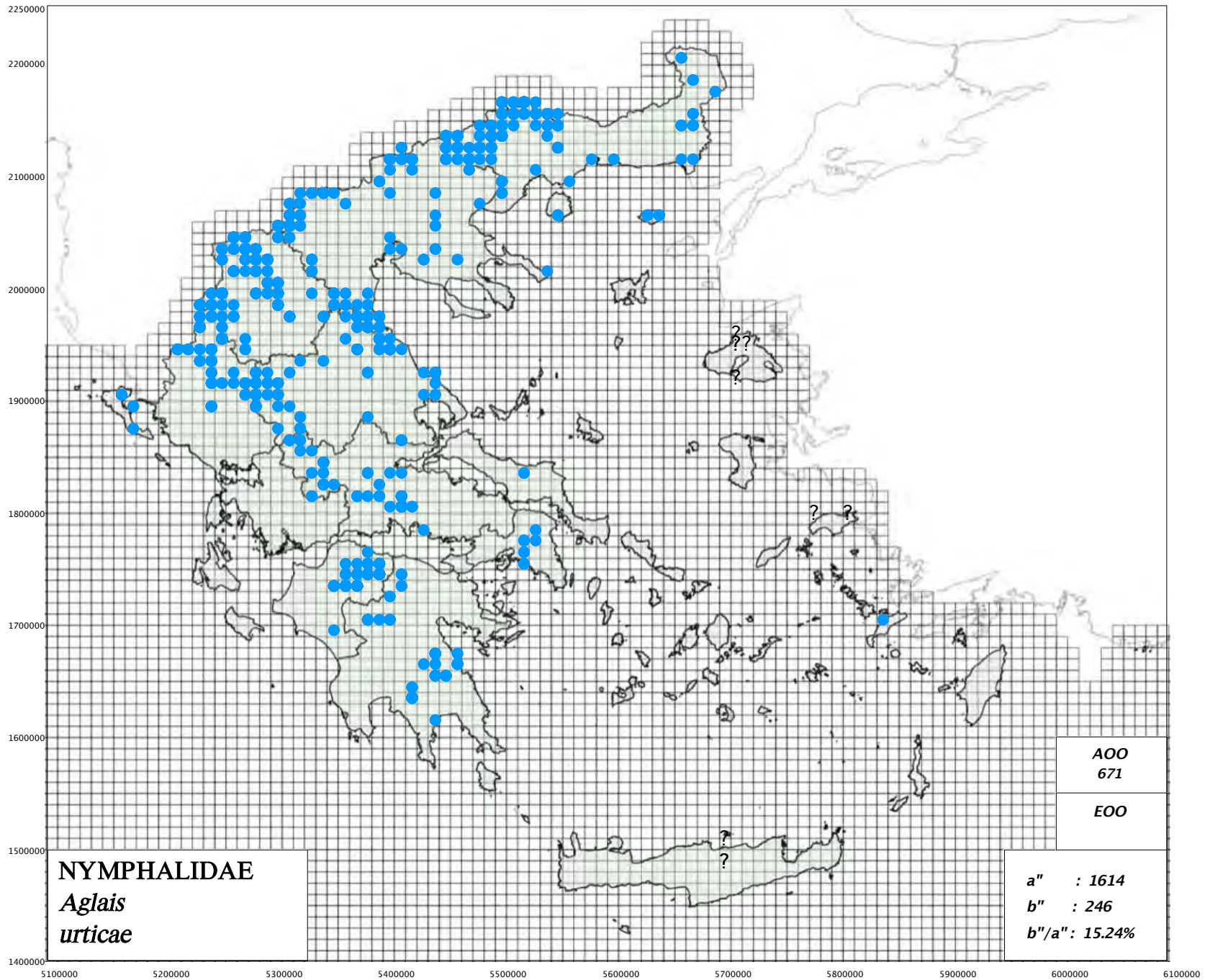


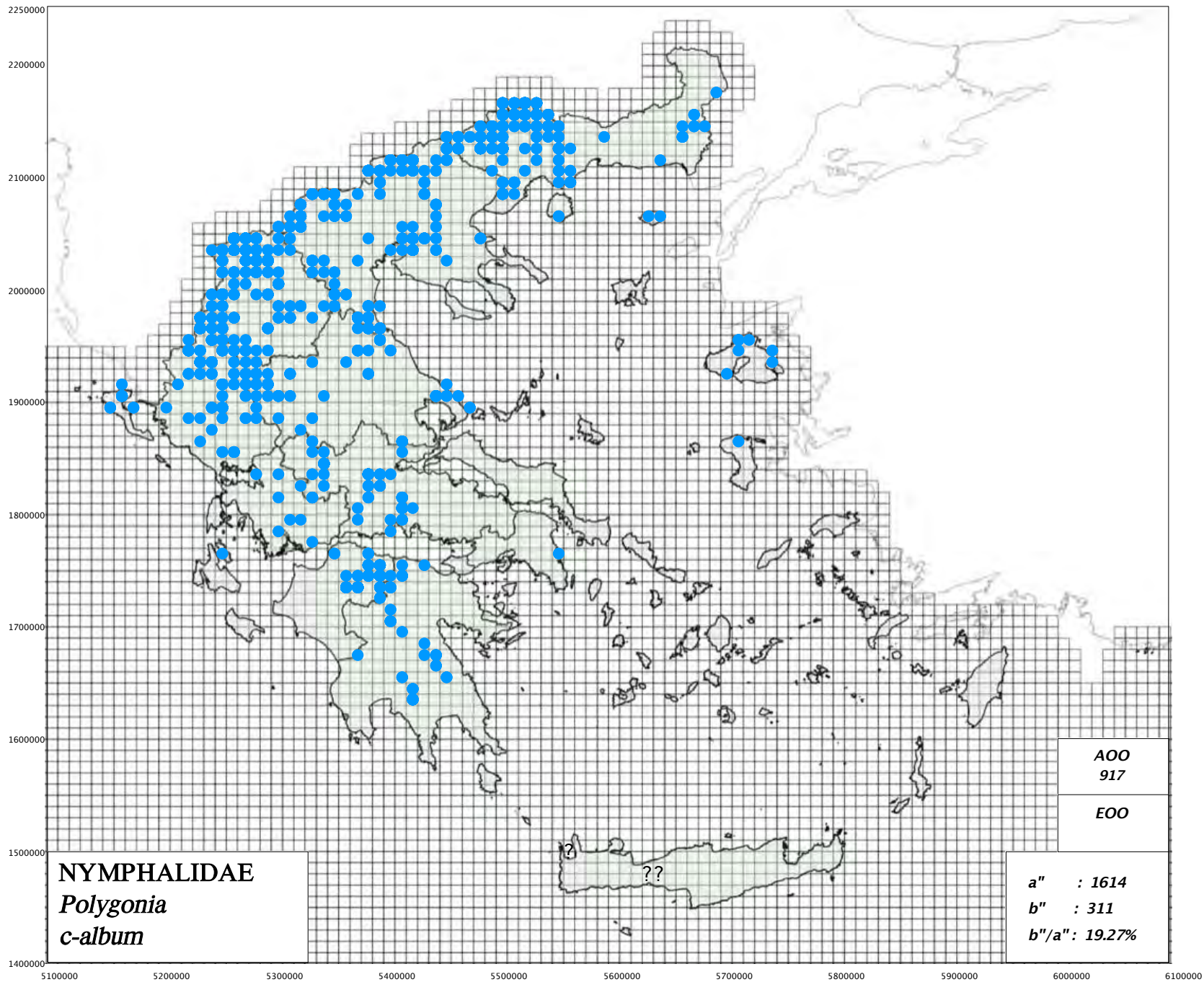


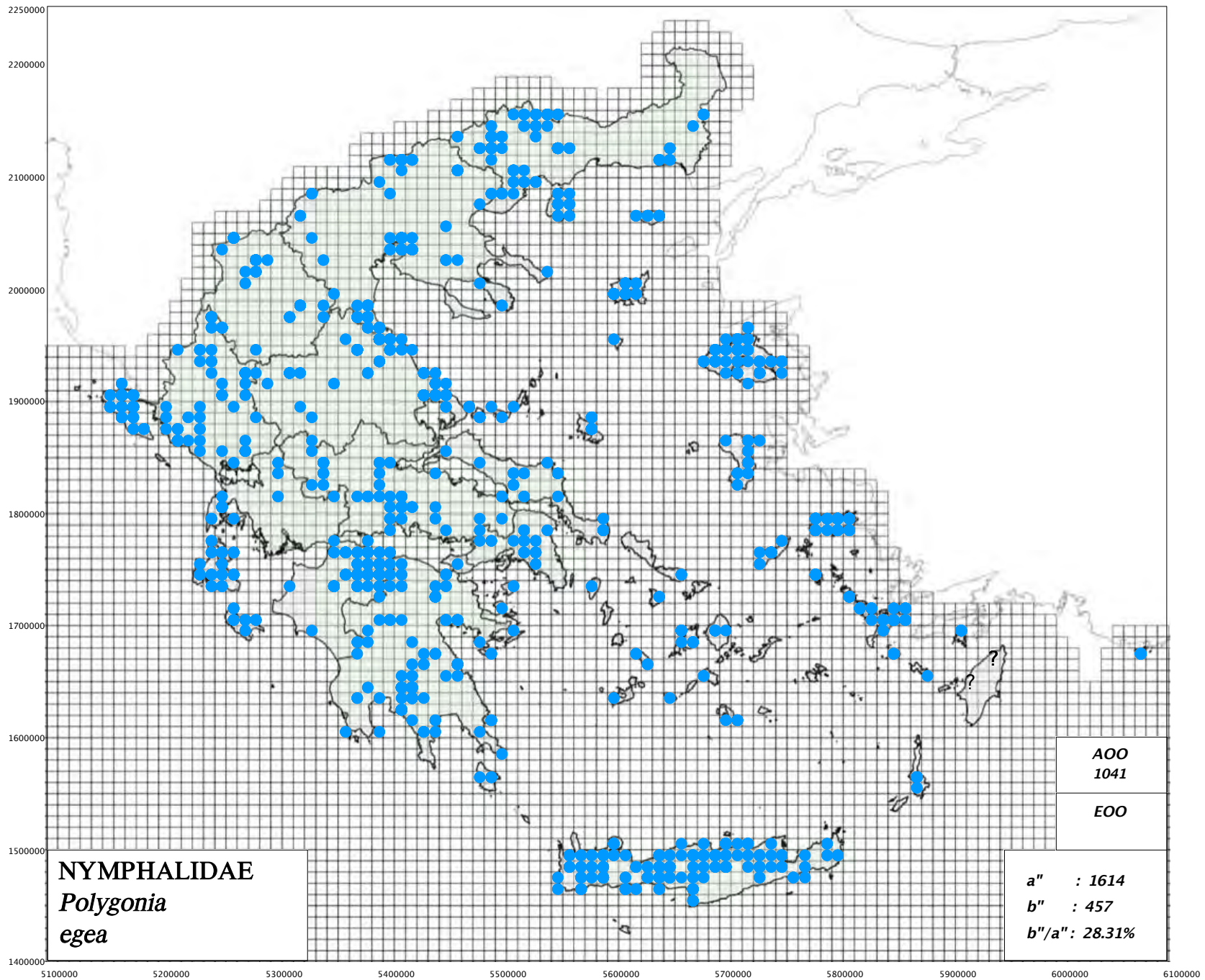


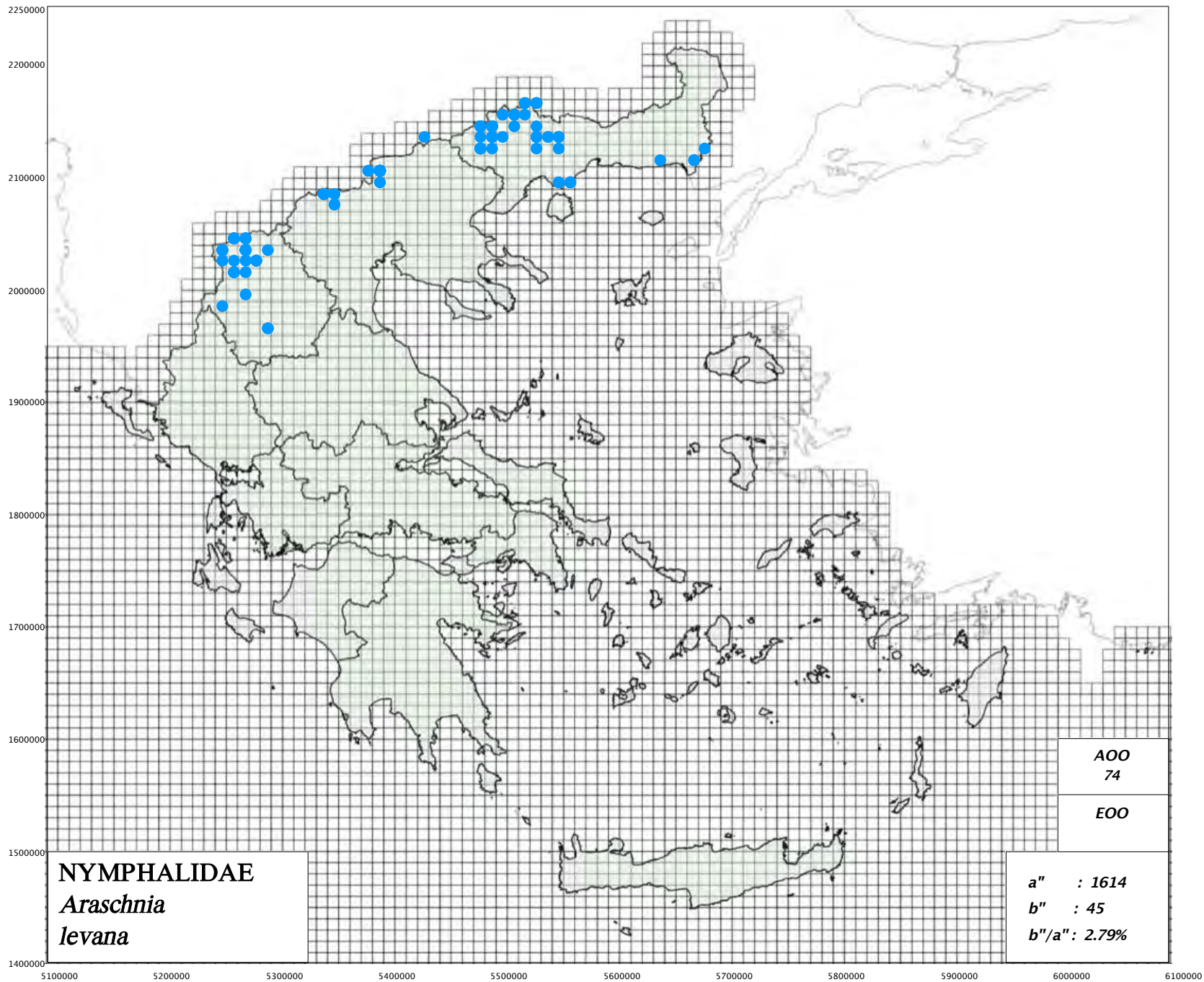


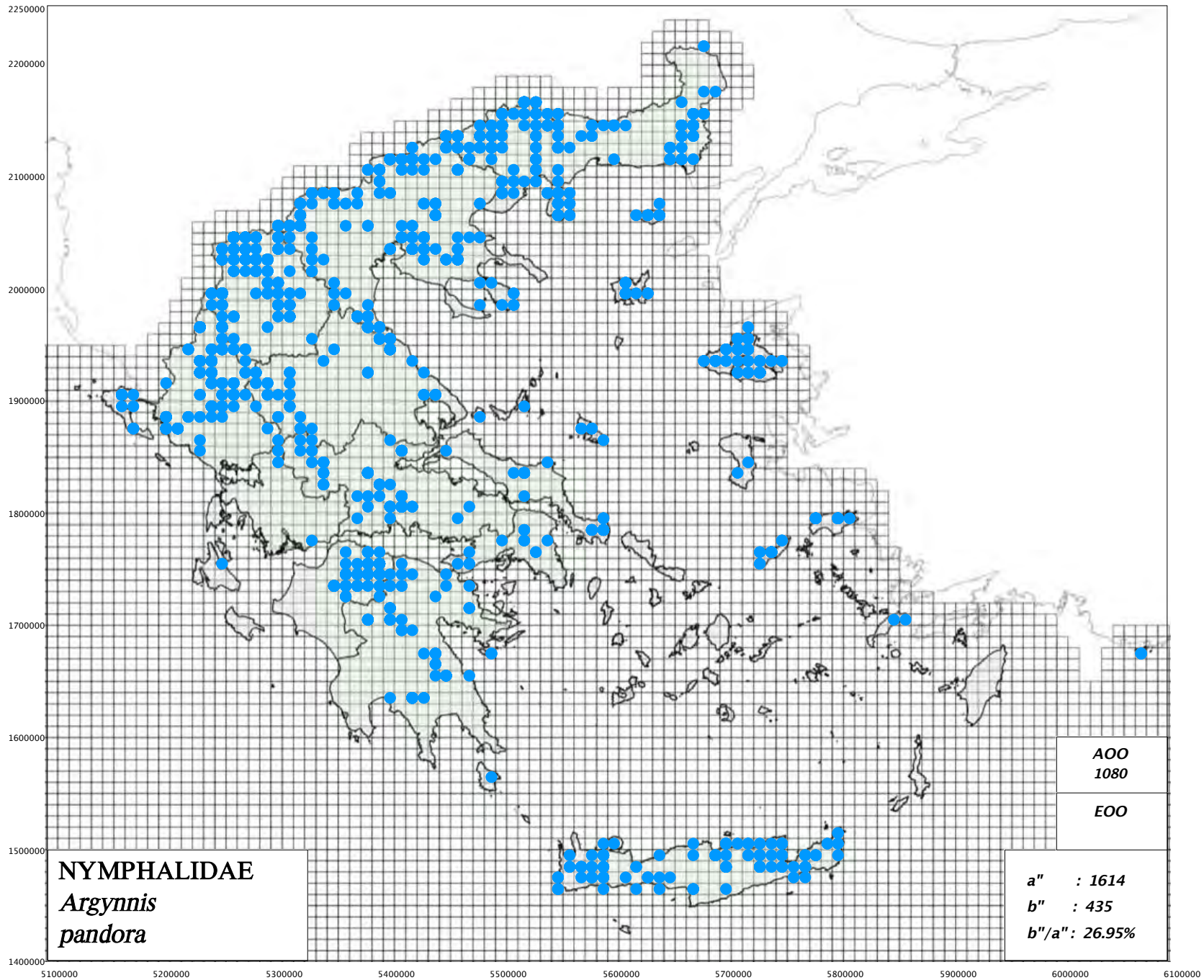


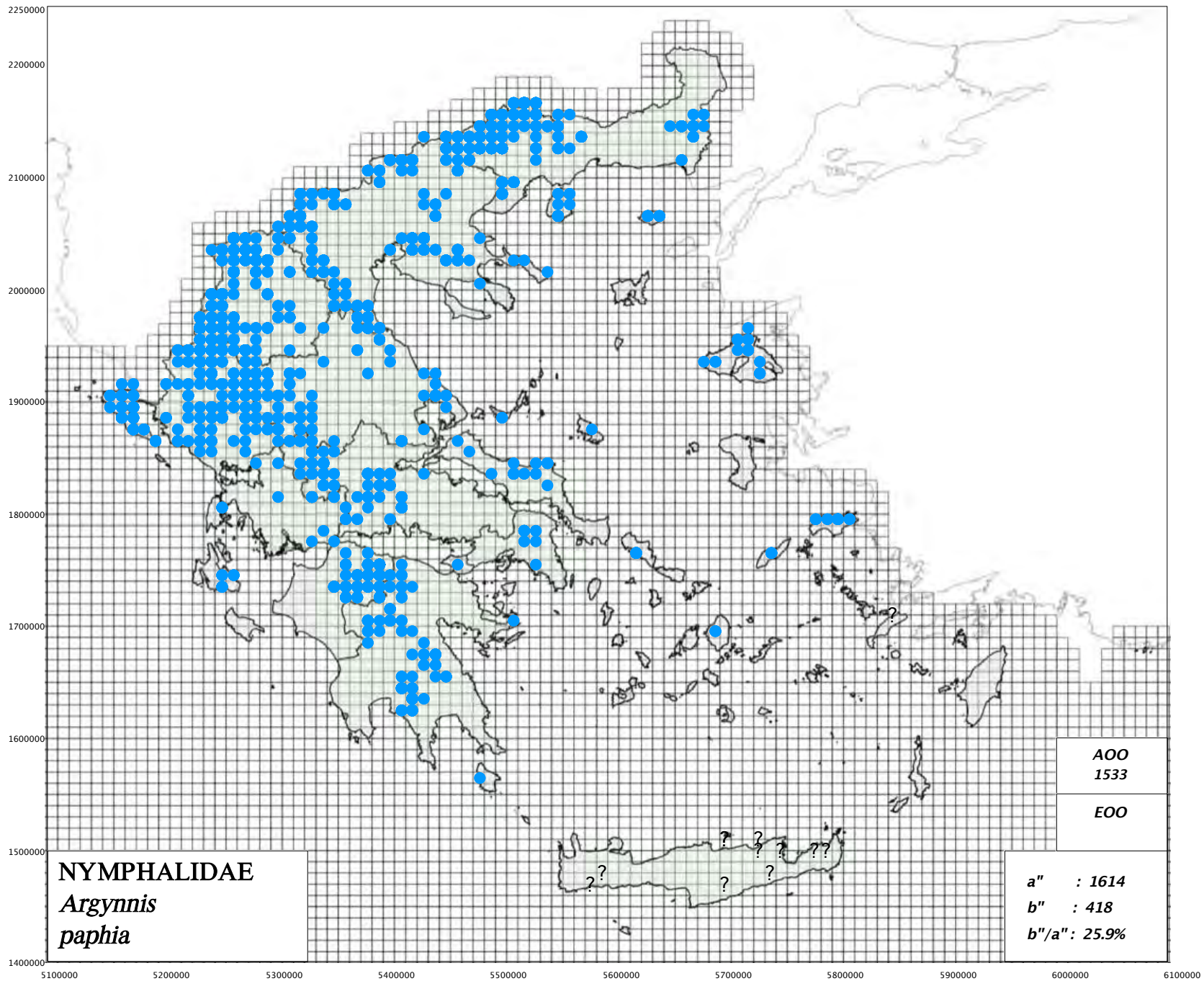


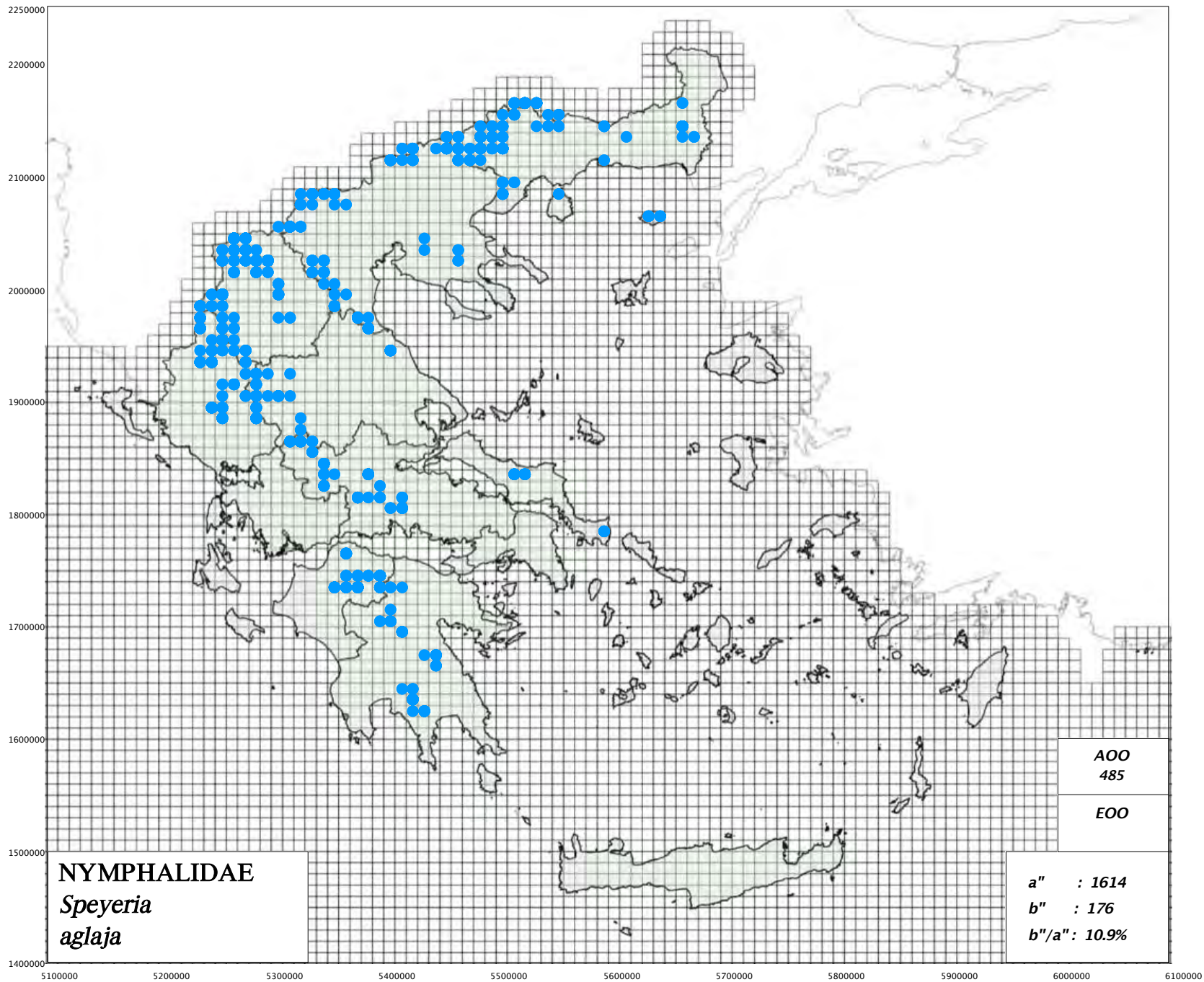


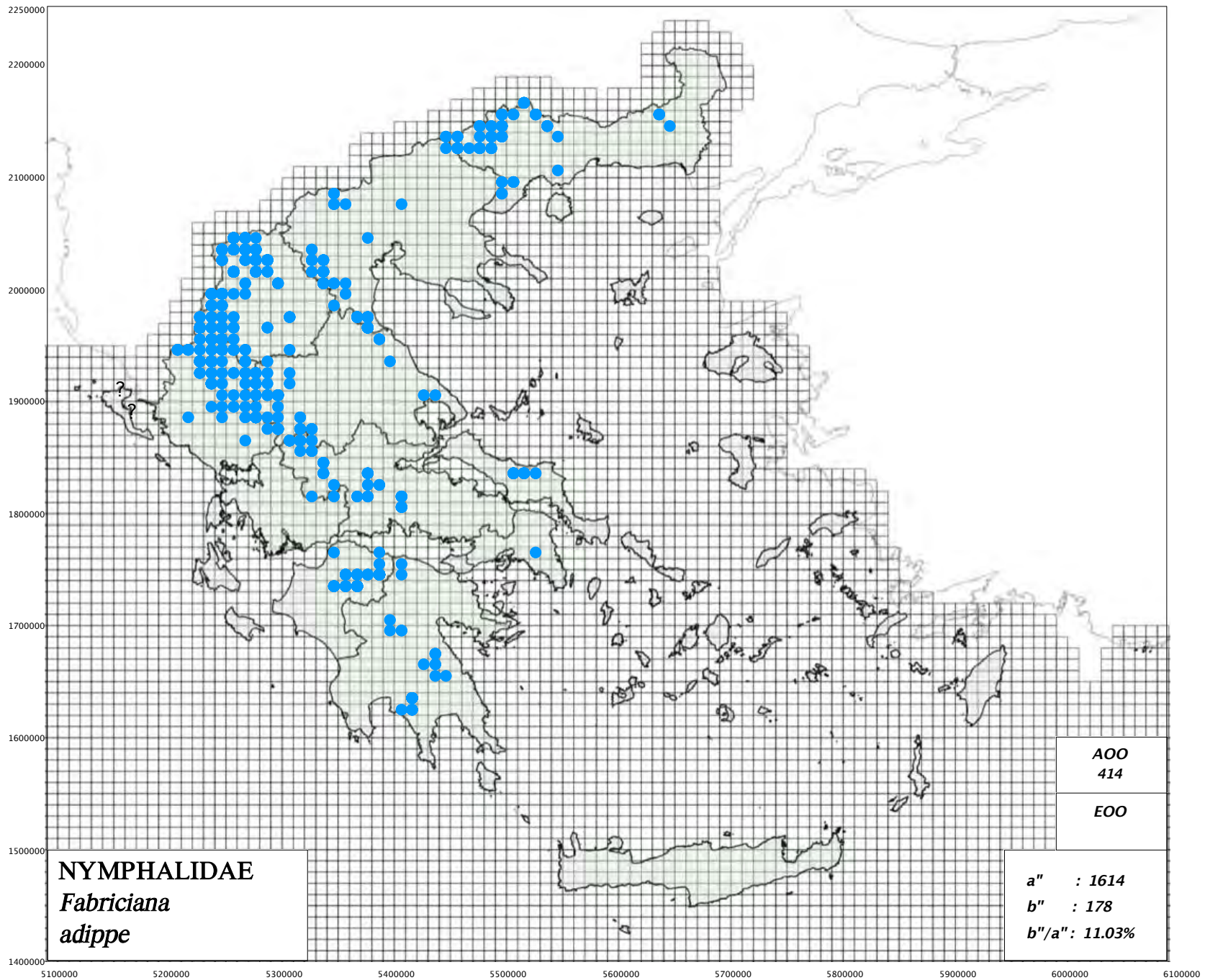


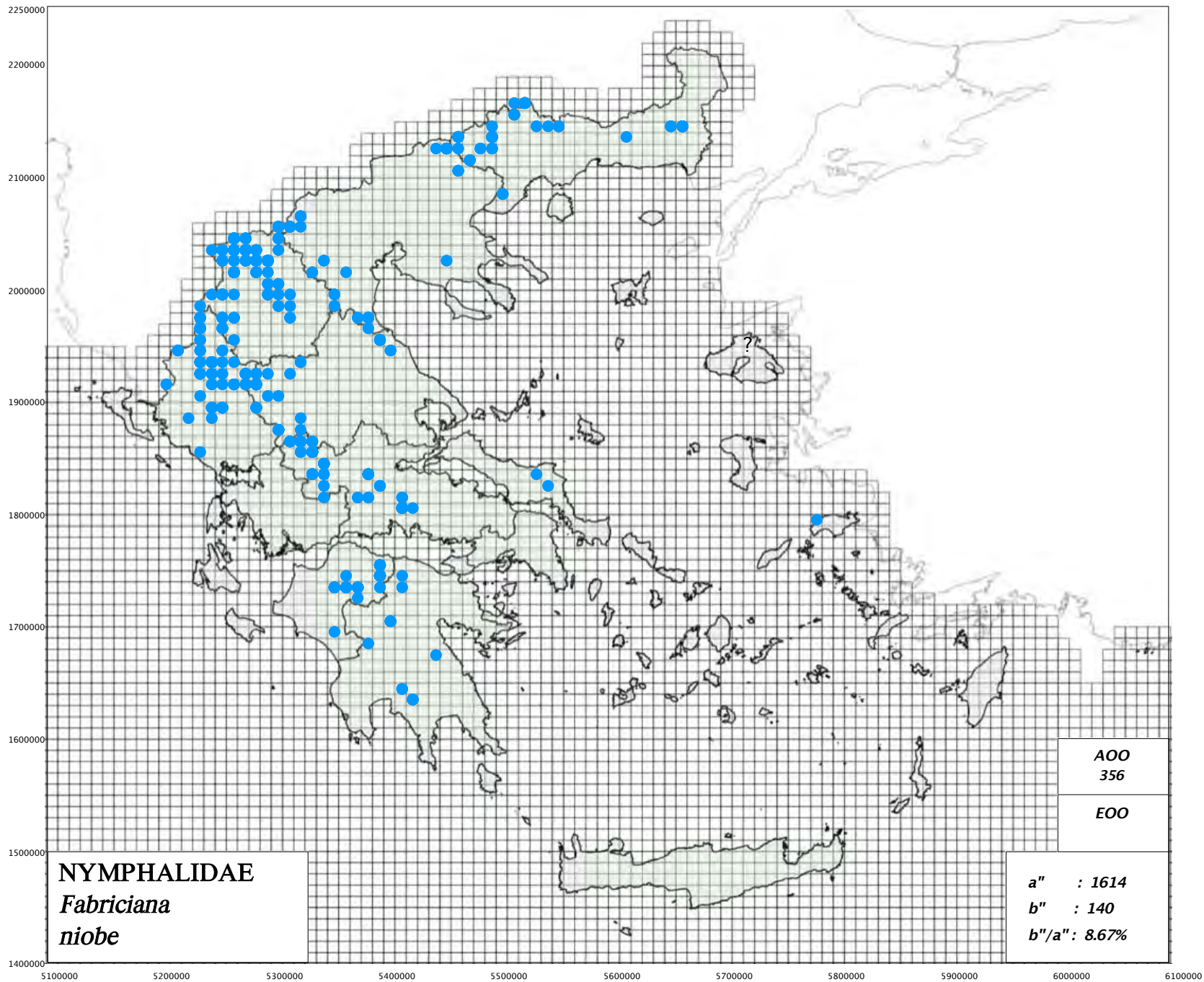


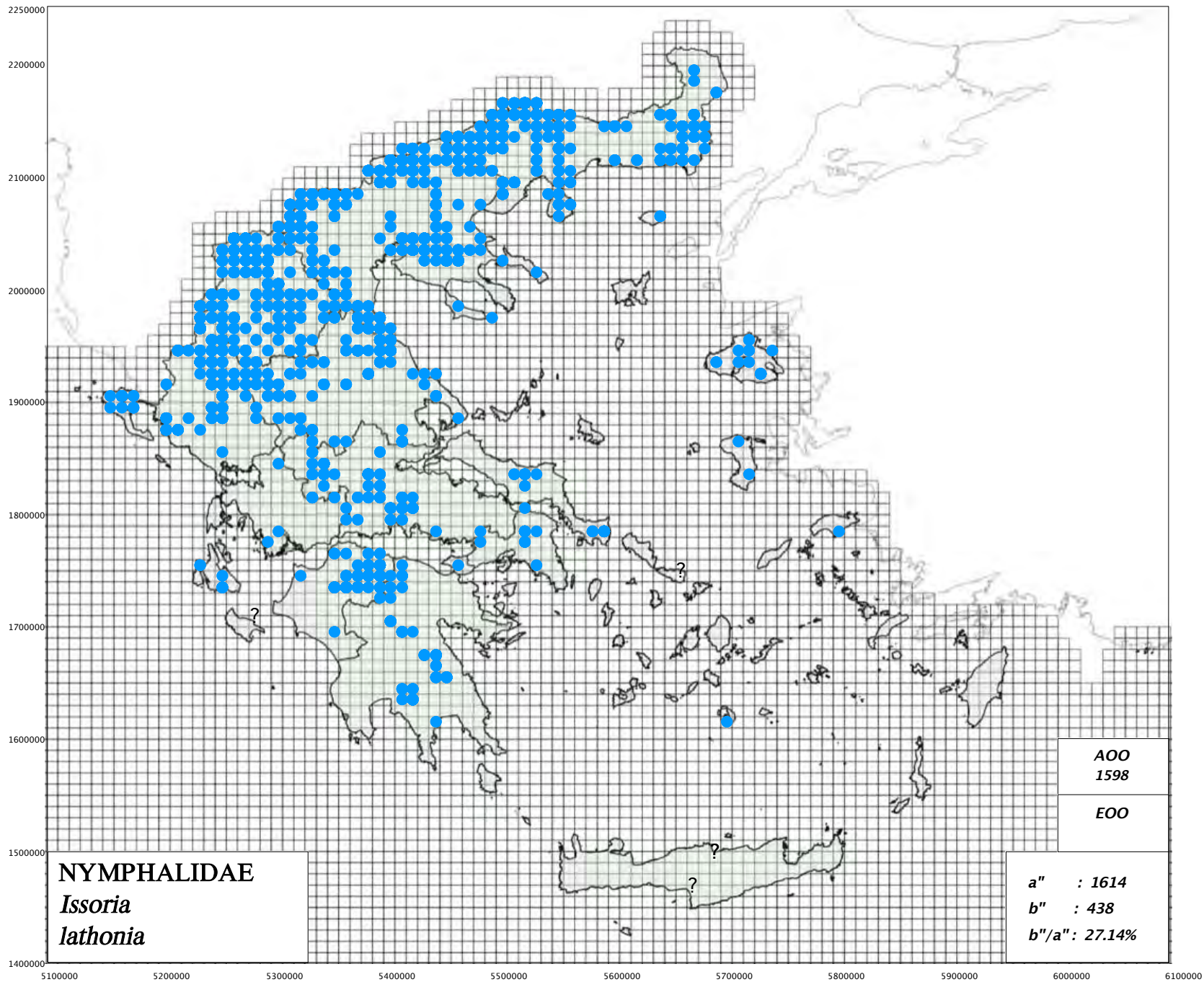


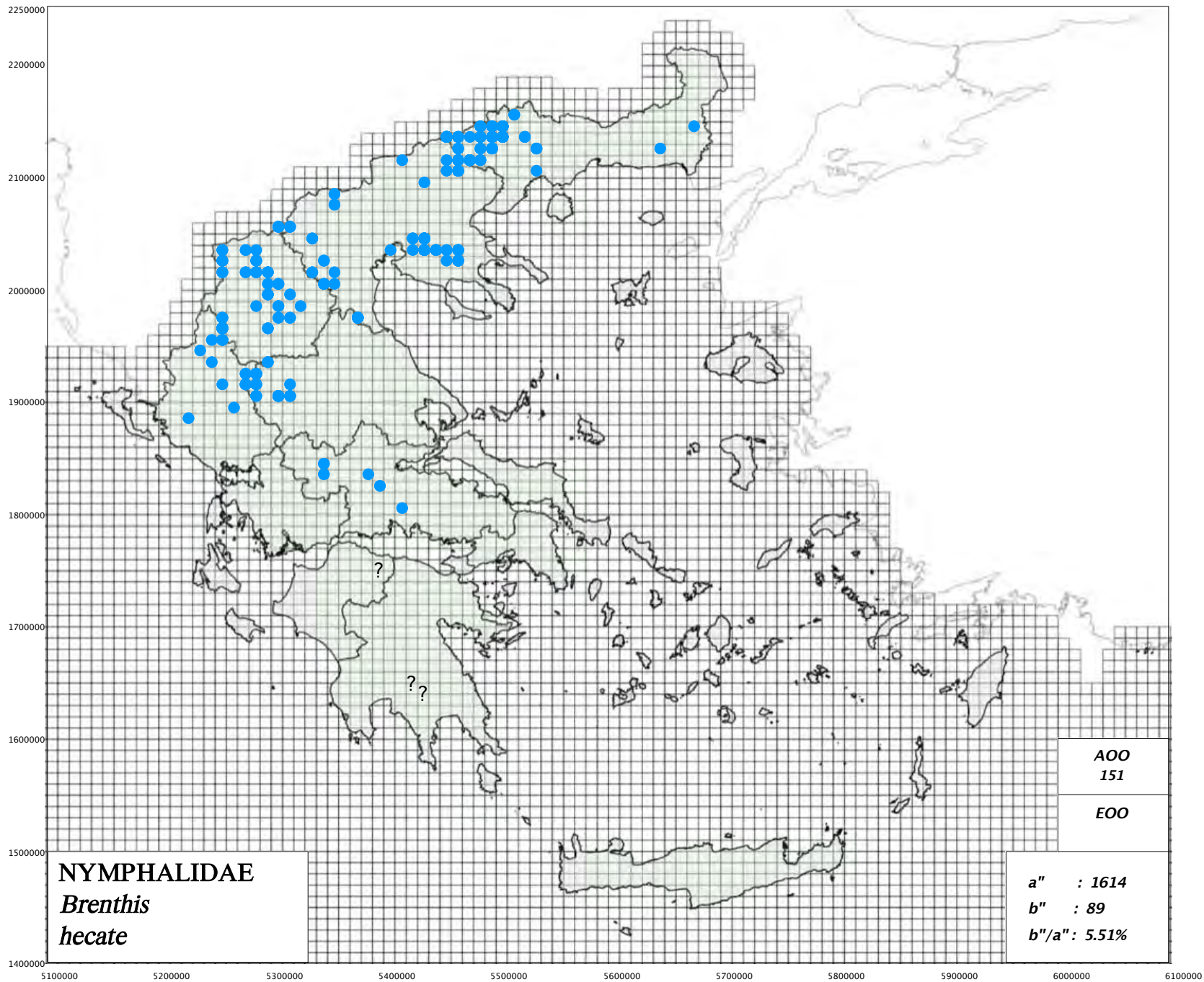


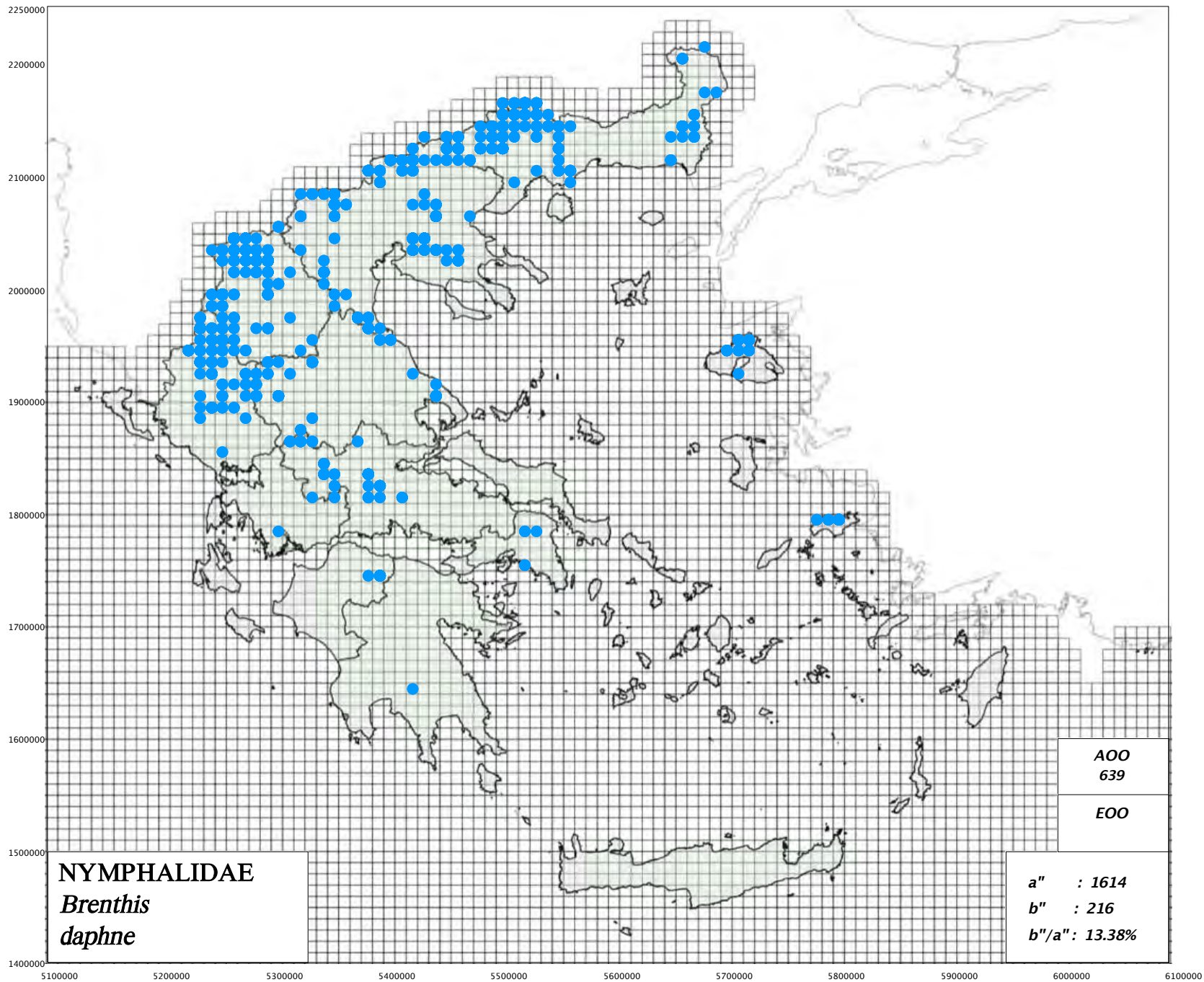


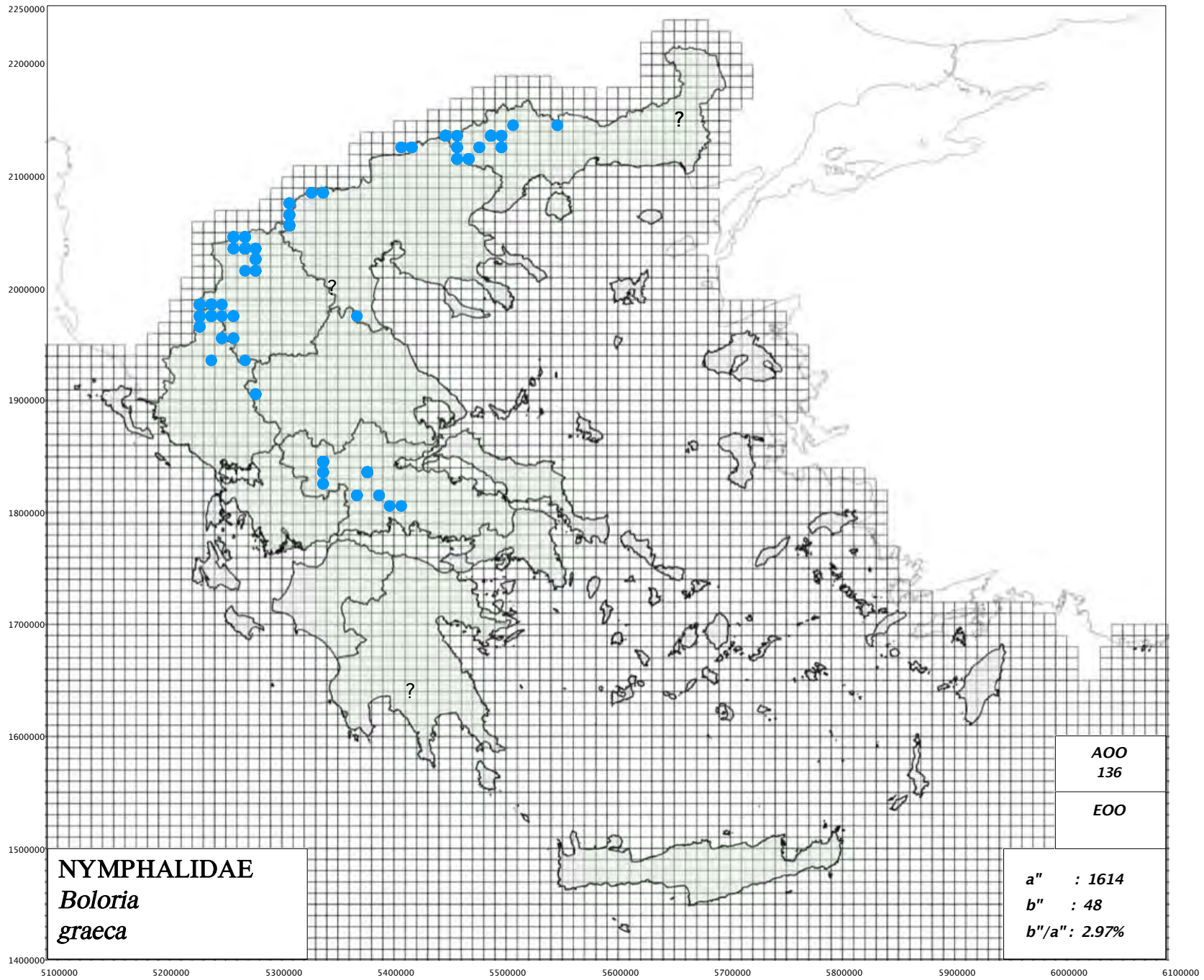


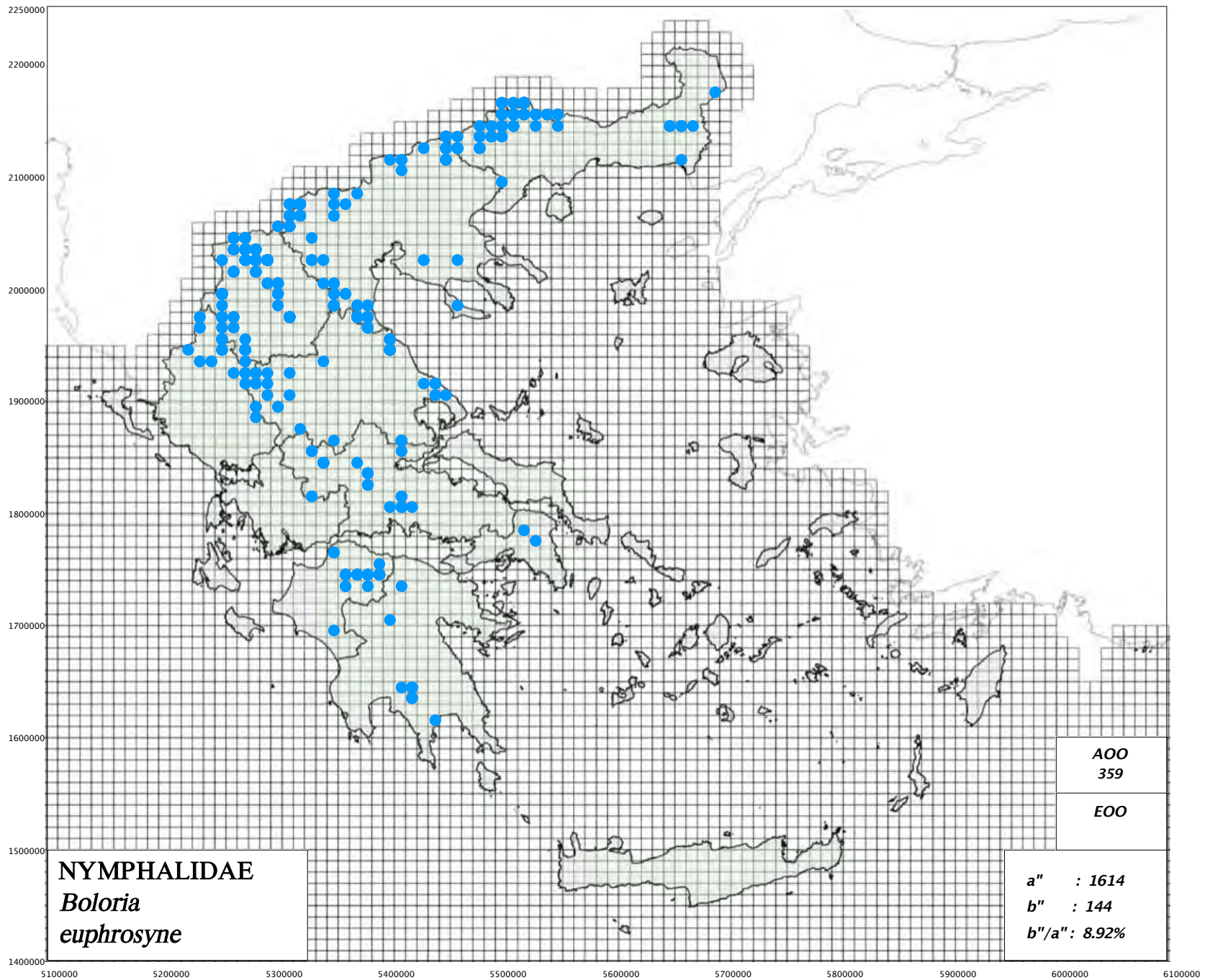


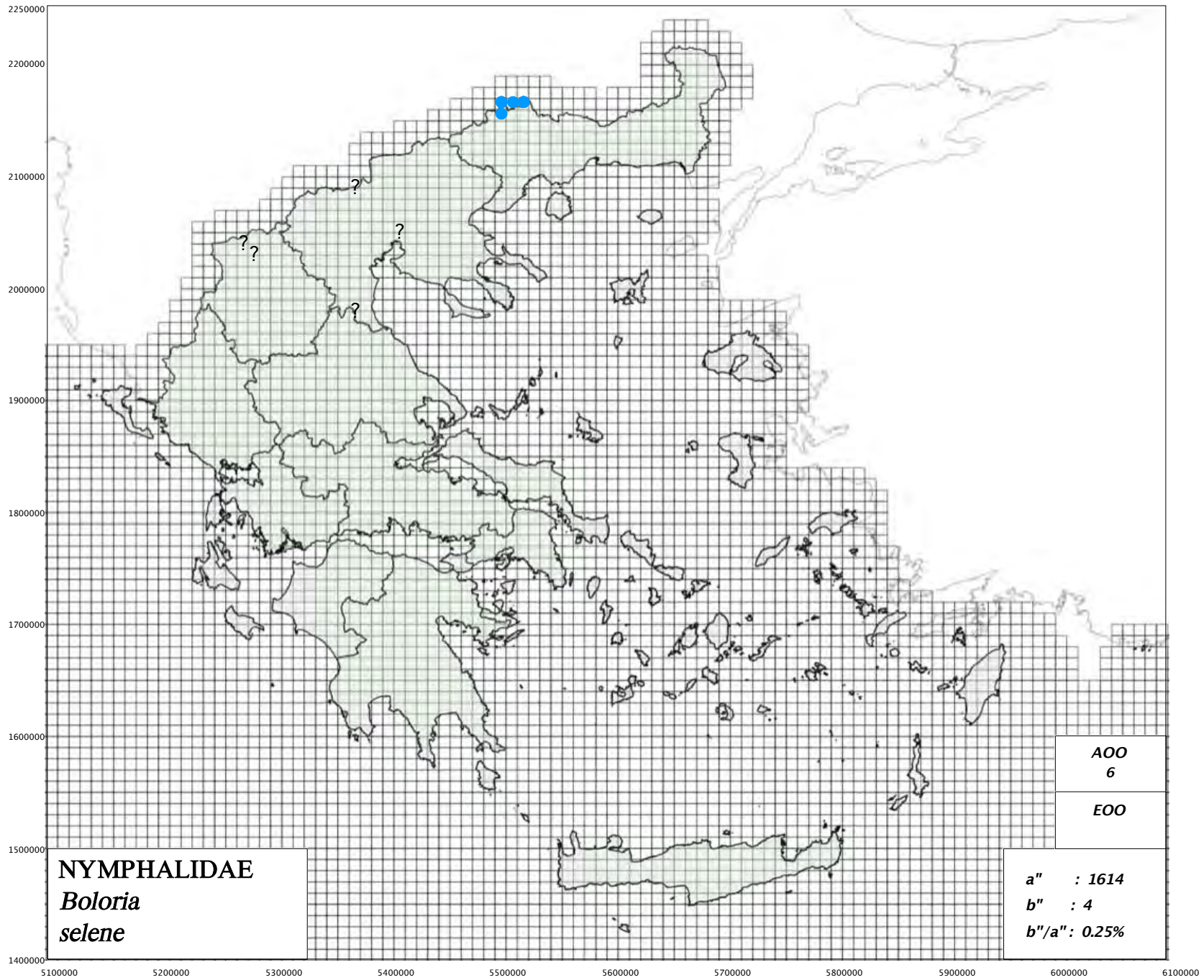


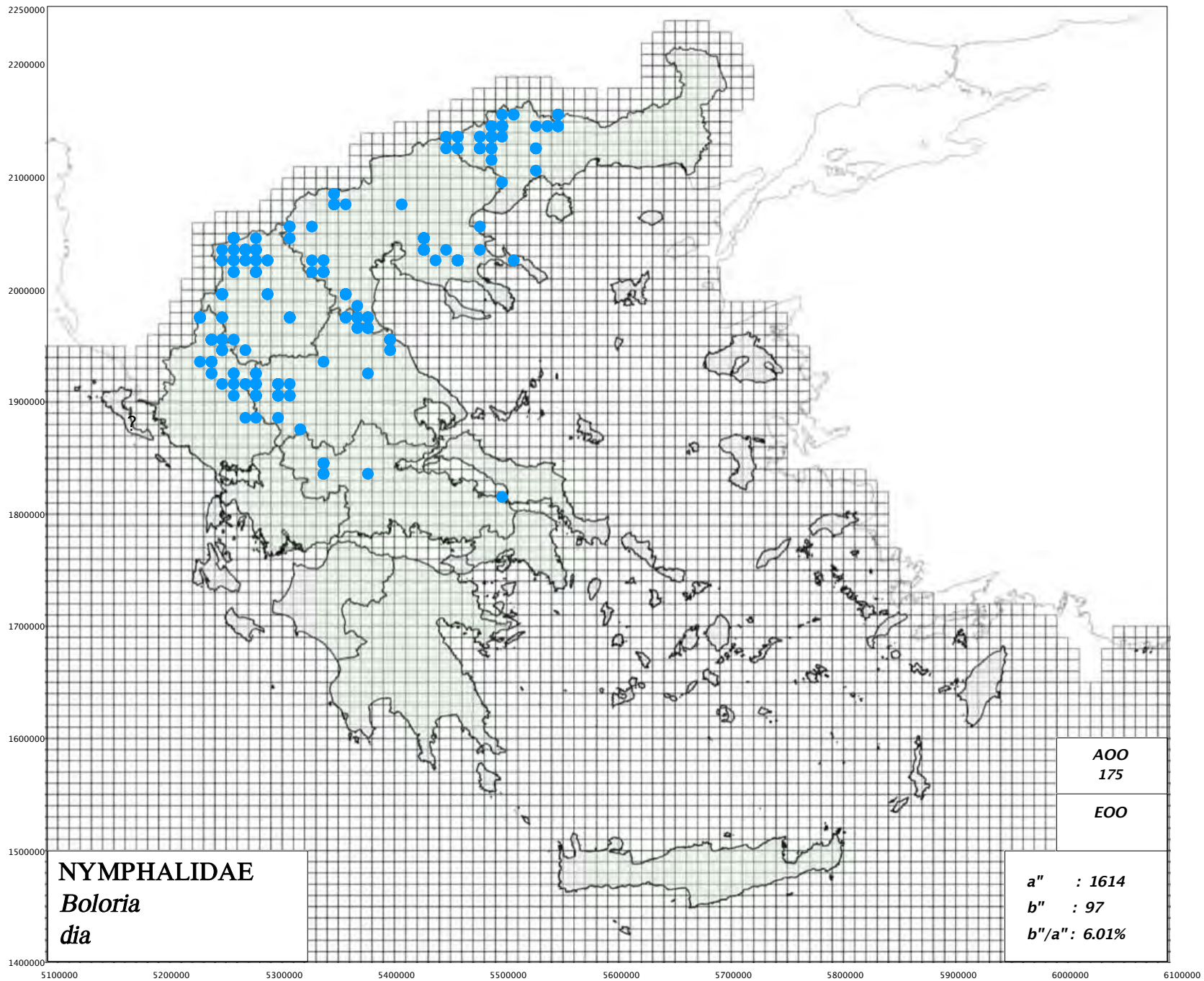


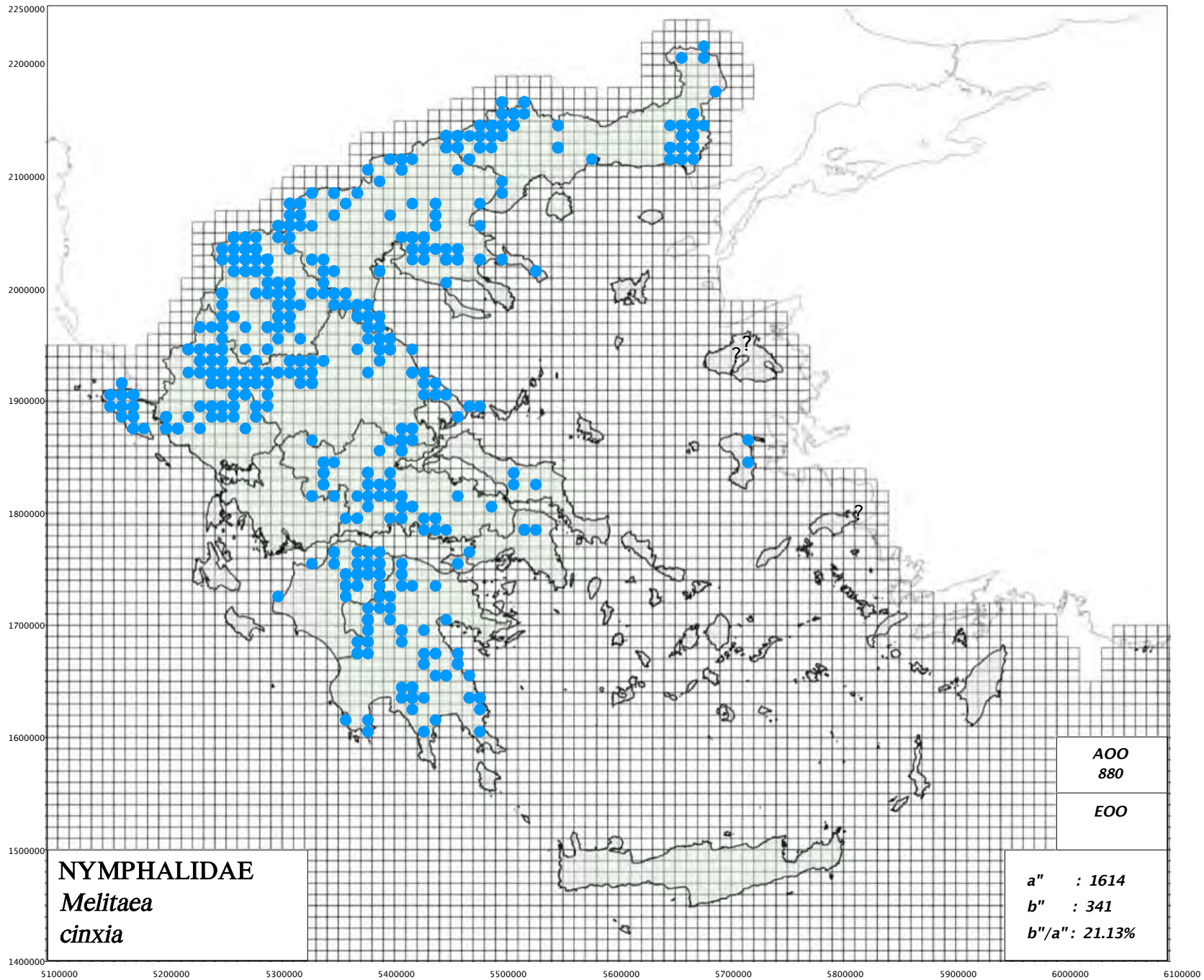


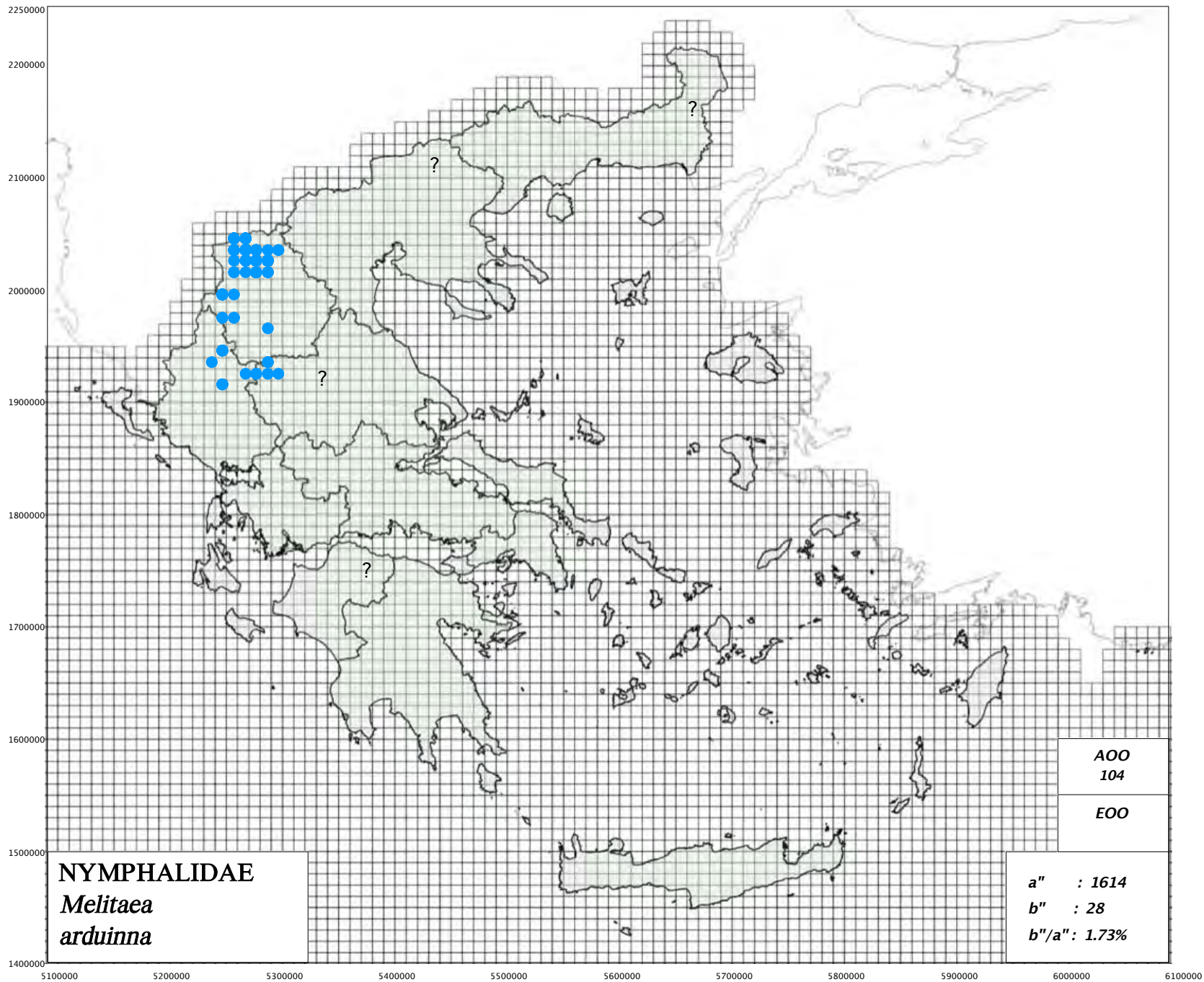


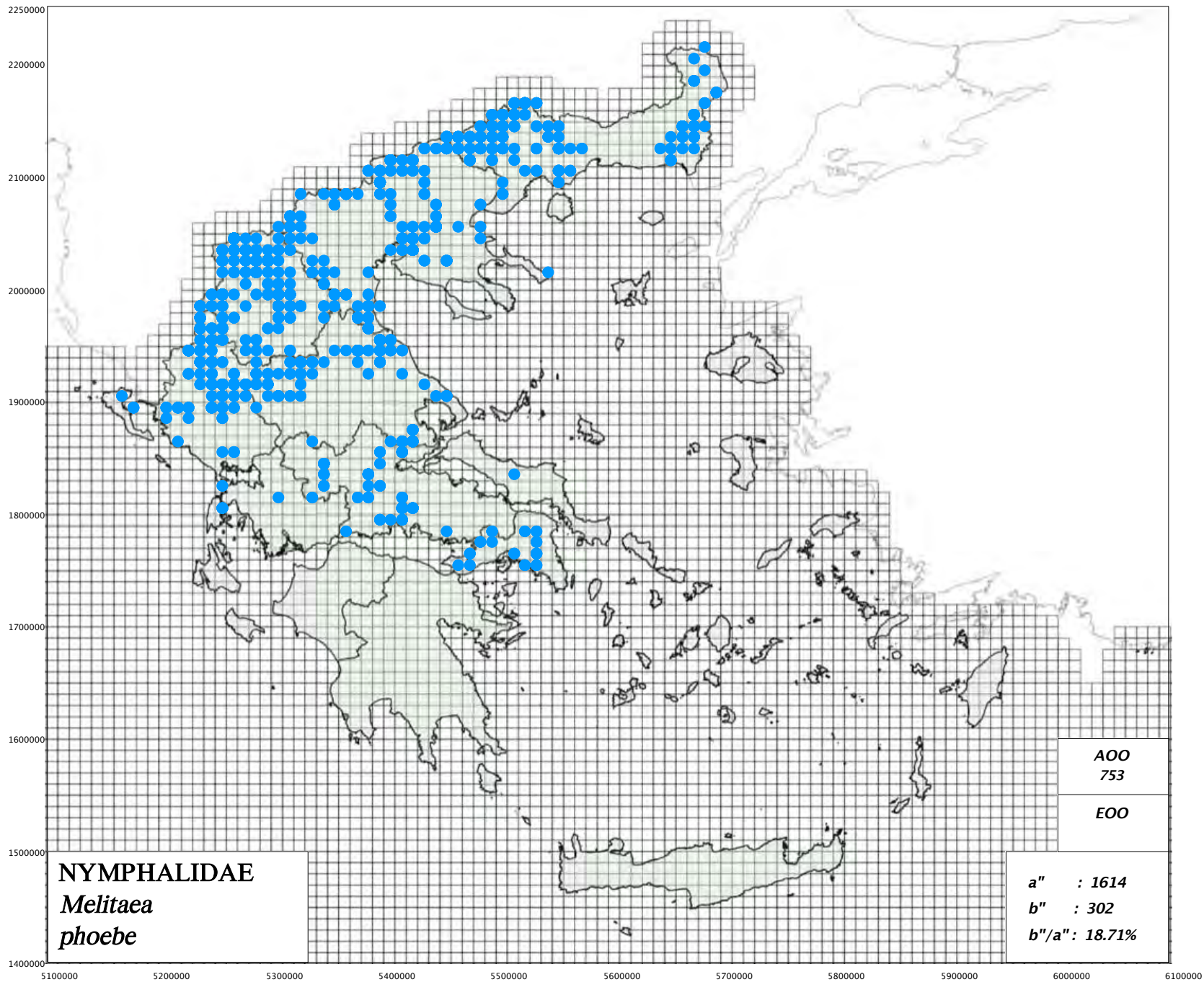


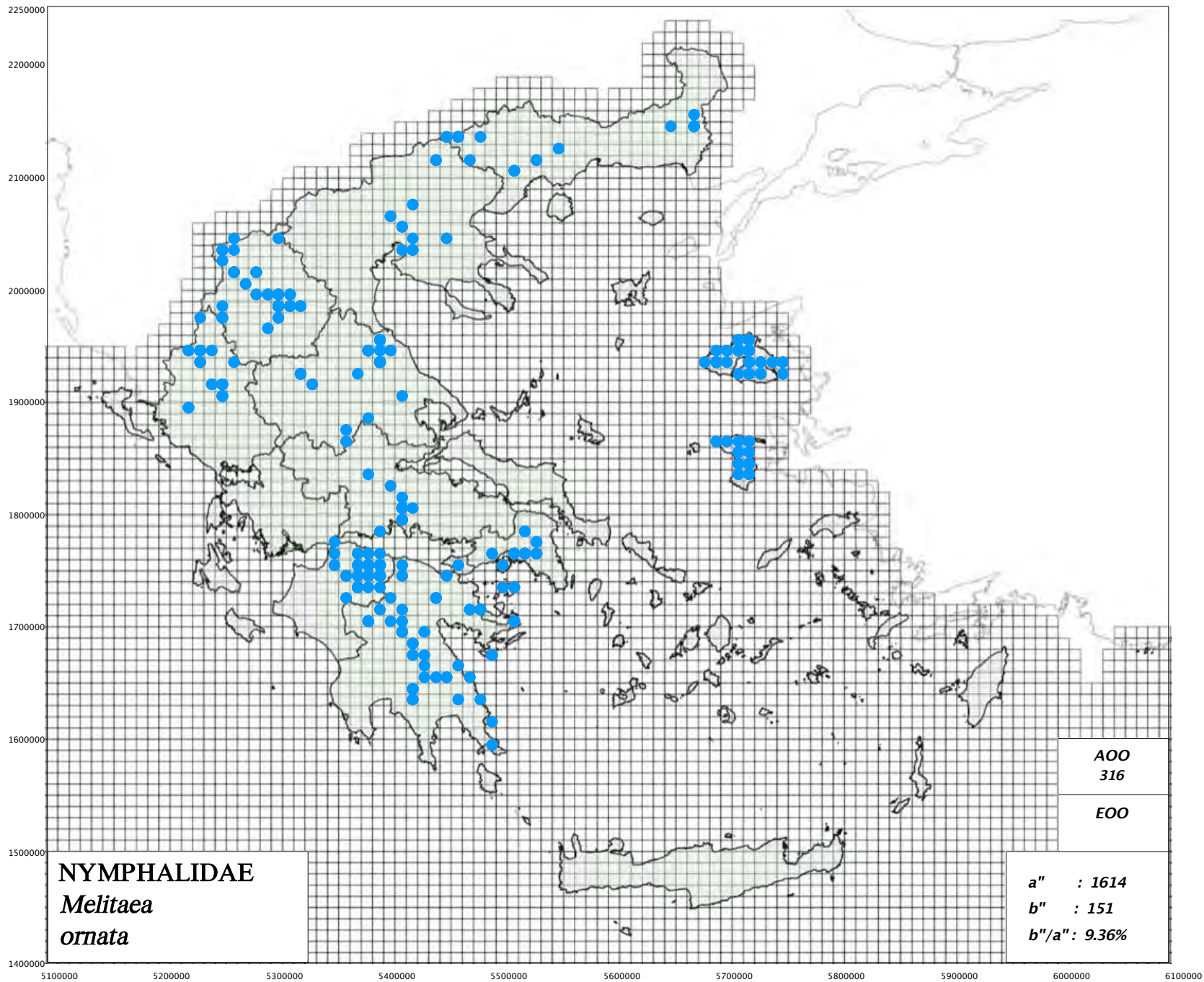




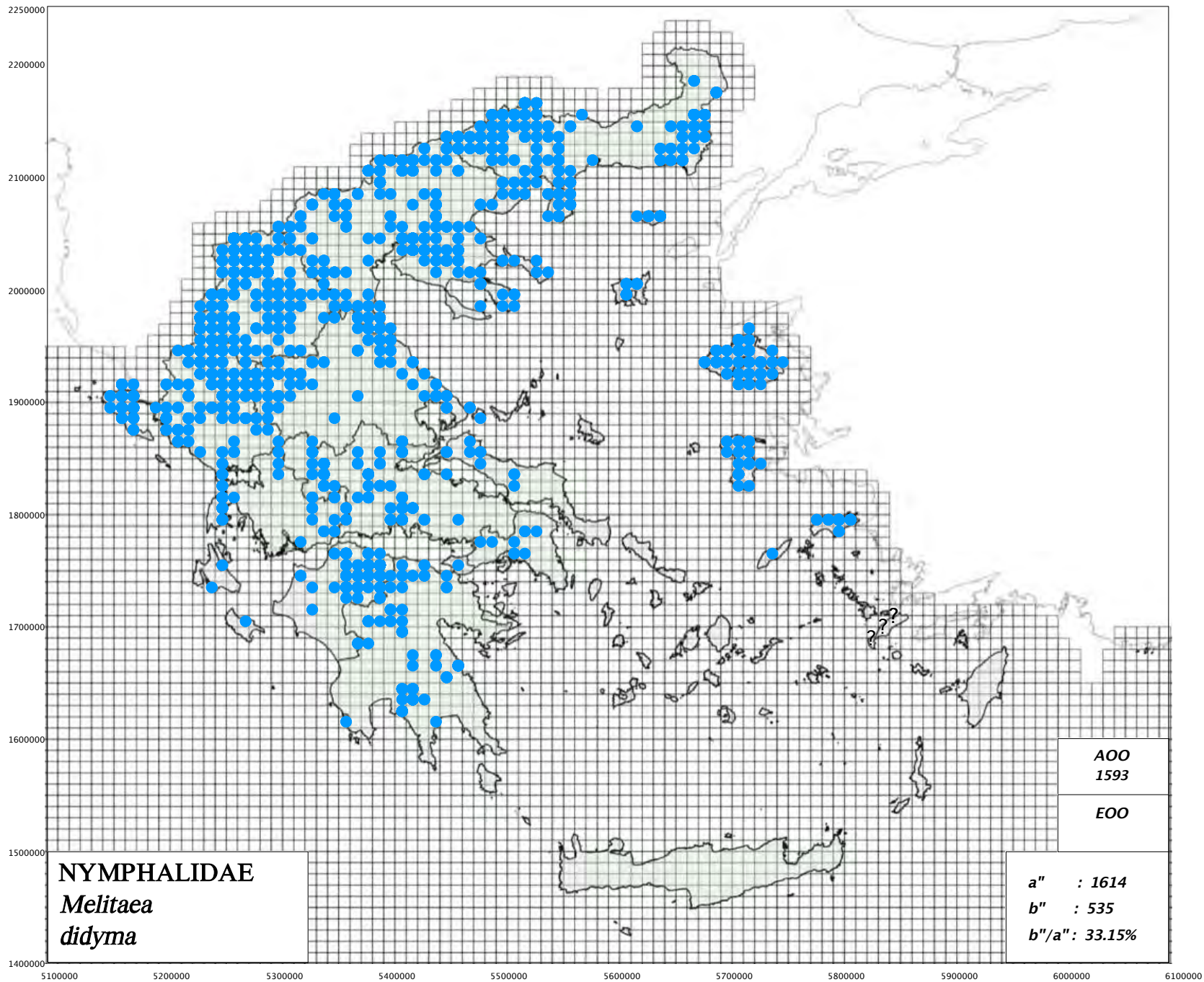


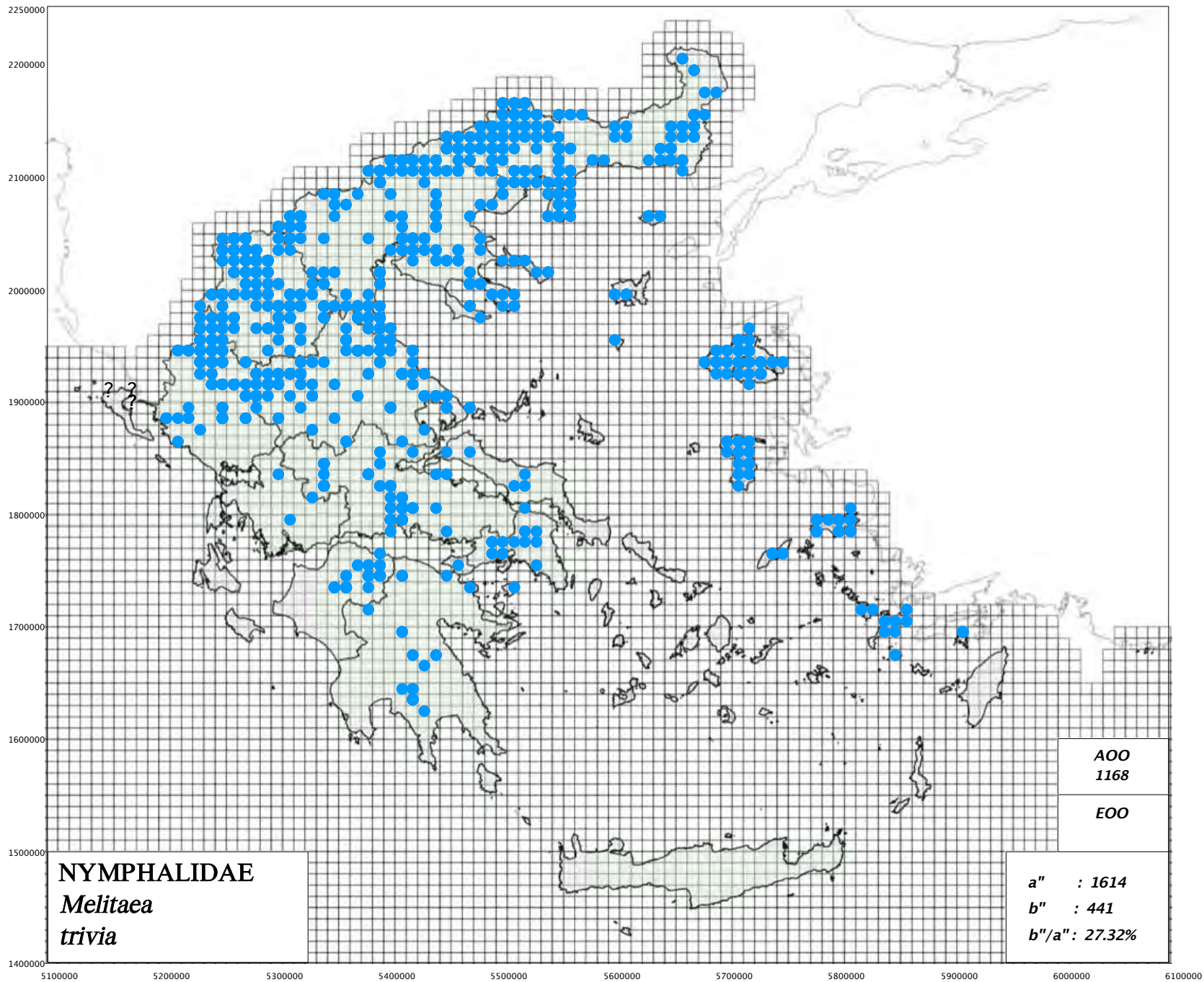




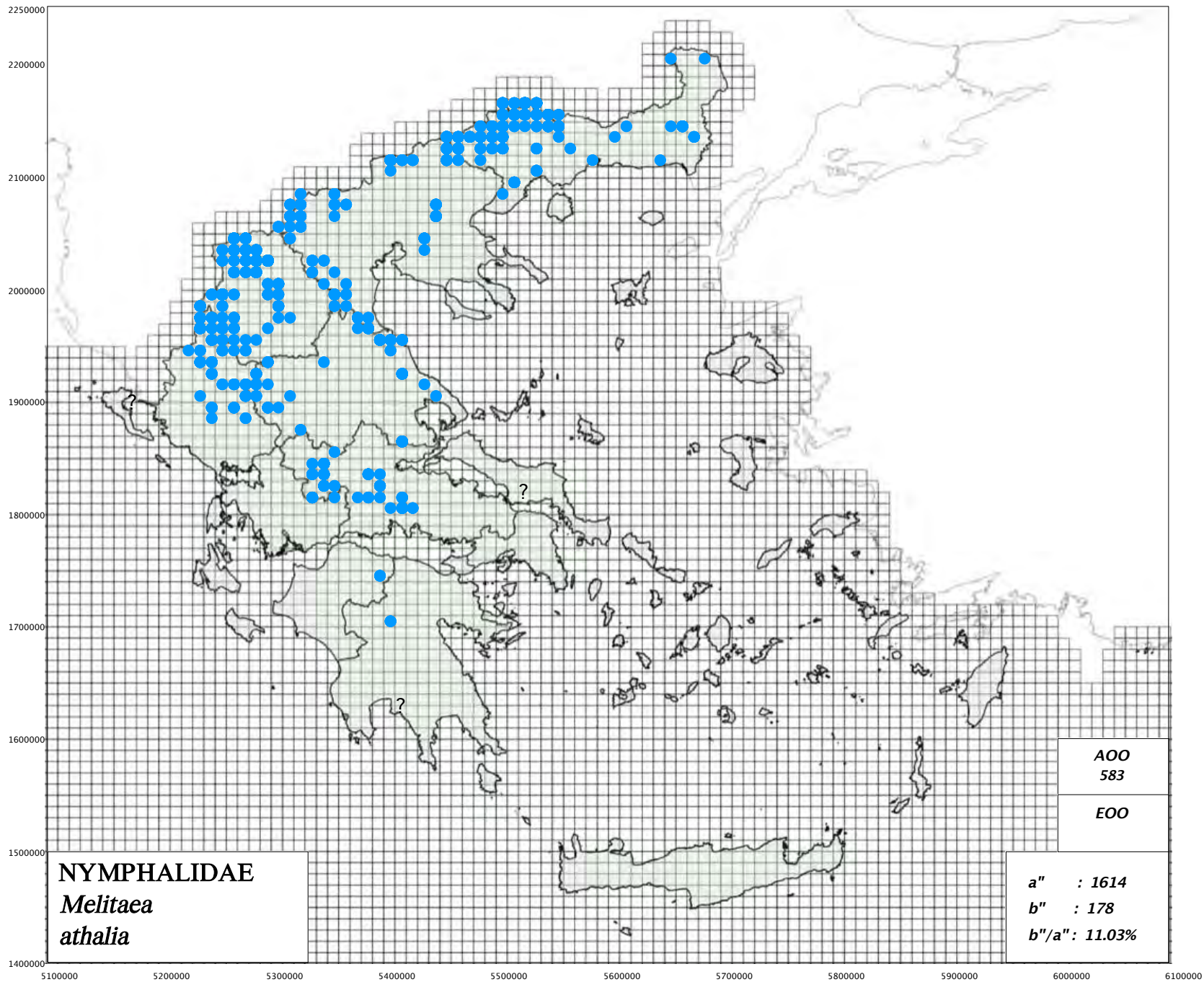


http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_phoebe,_Melitaea_ornata.html



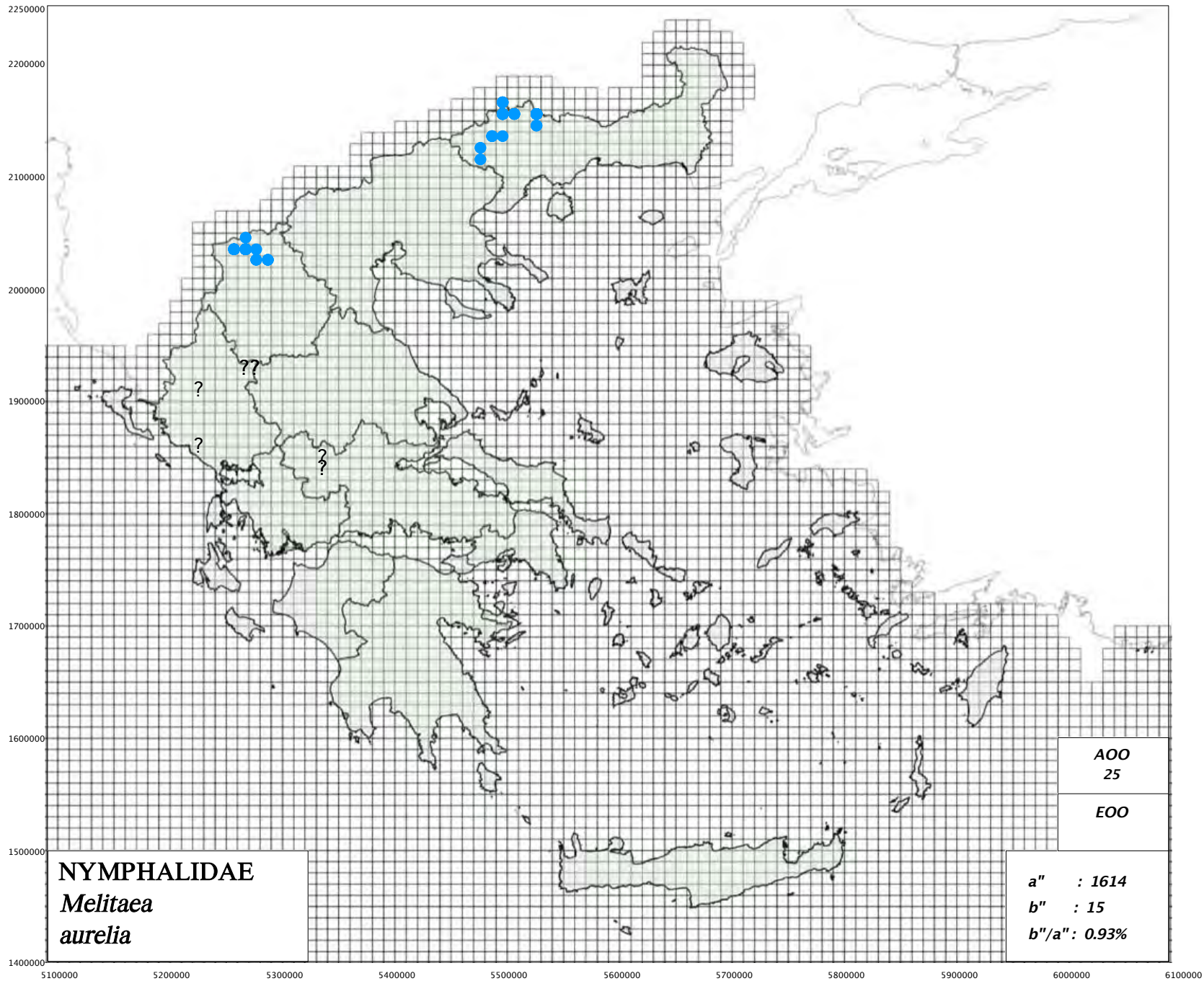


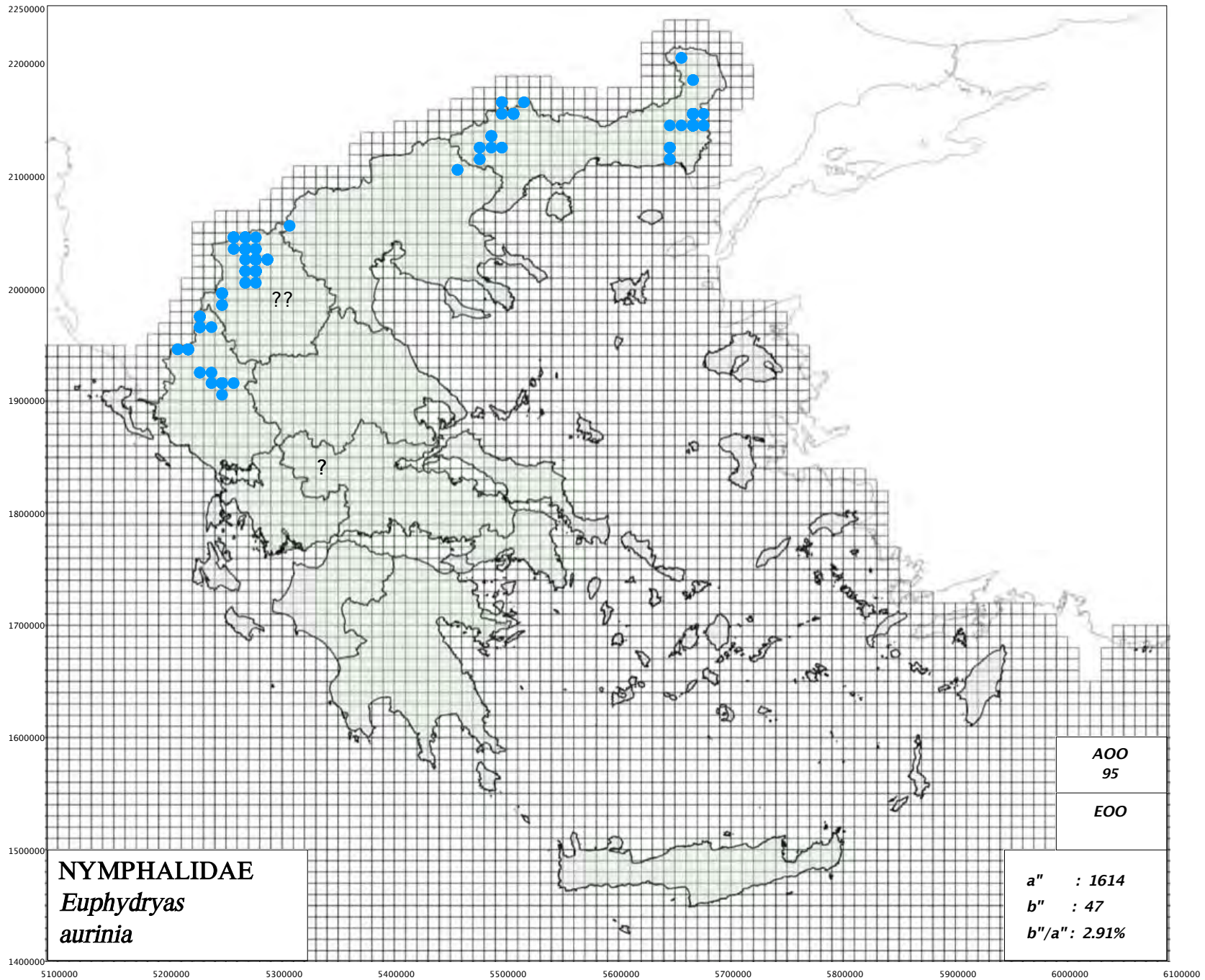
http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_didyma,_Melitaea_trivia.html

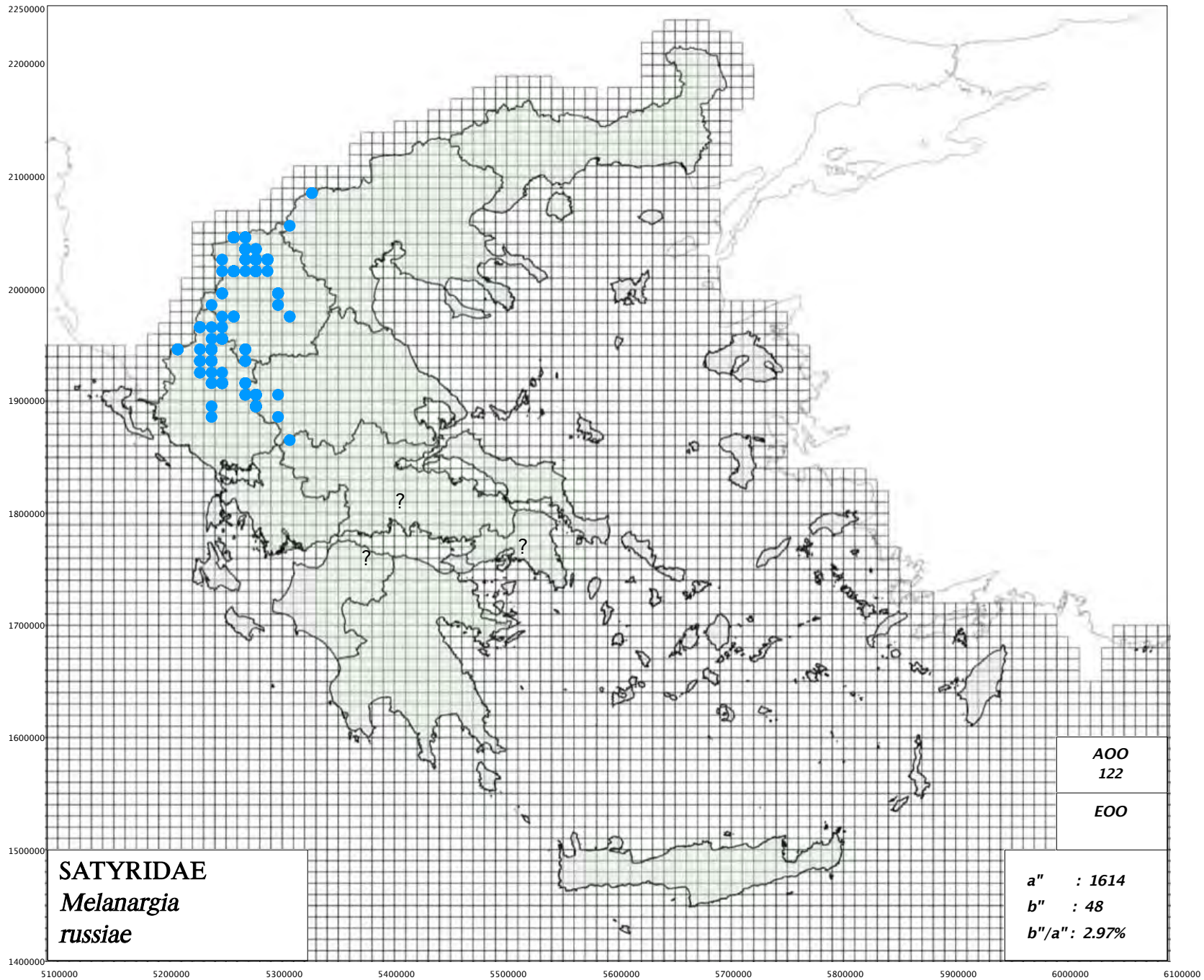


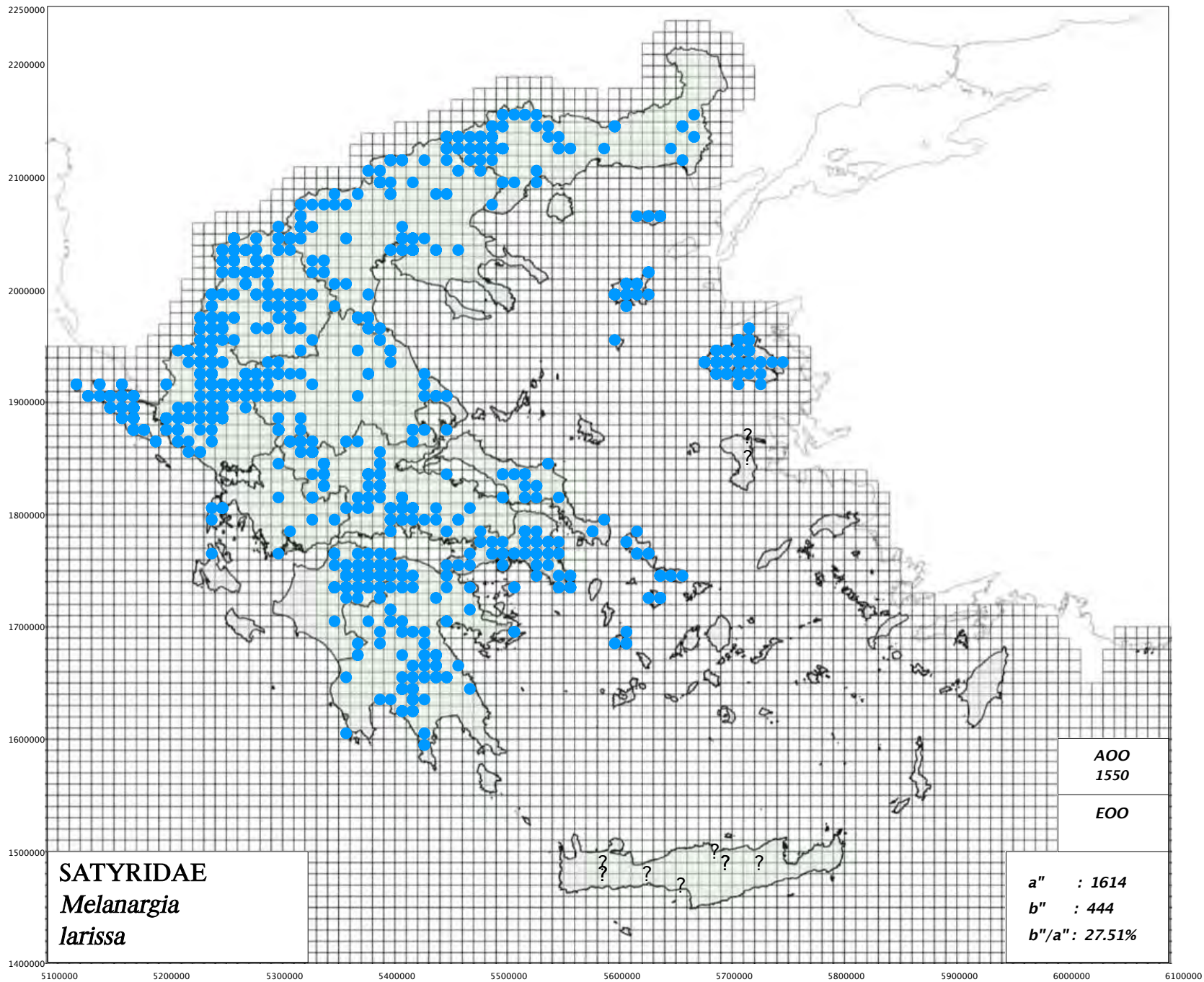
http://www.pamperis.gr/PHOTOGRAPHS/Melitaea_athalia_aurelia_complex.html

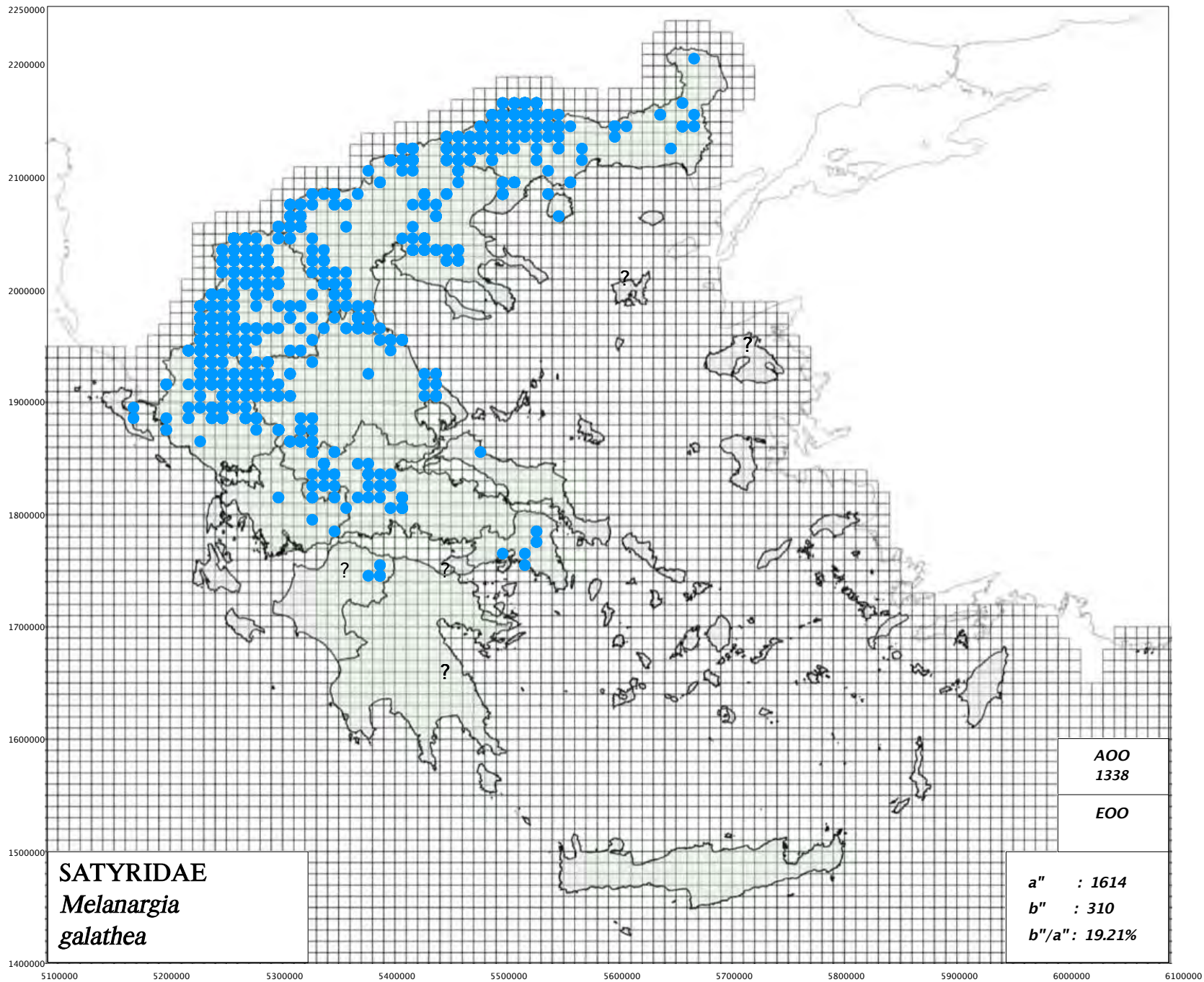
Αμφίβολη αναγνώριση /
Identification Uncertain

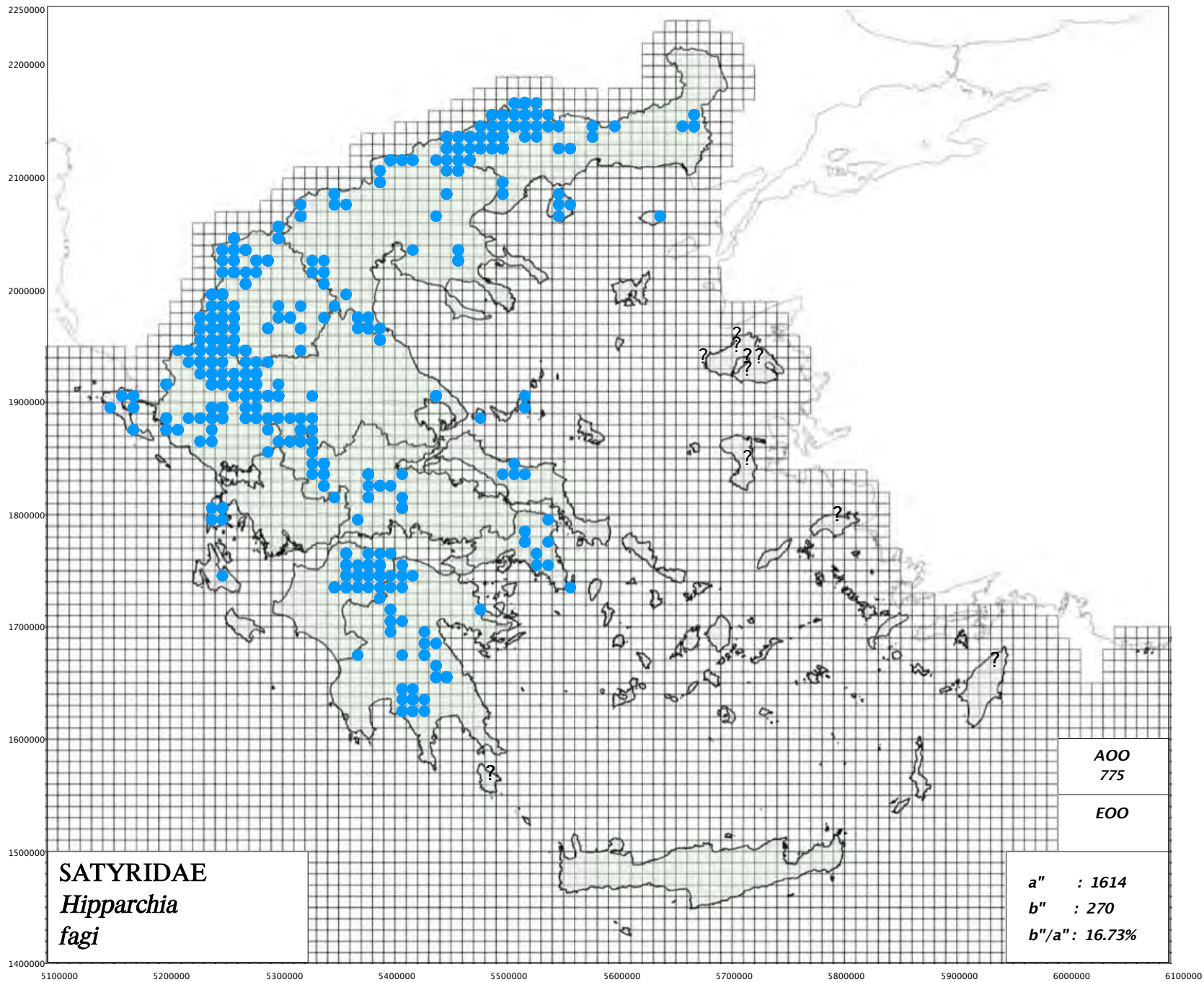


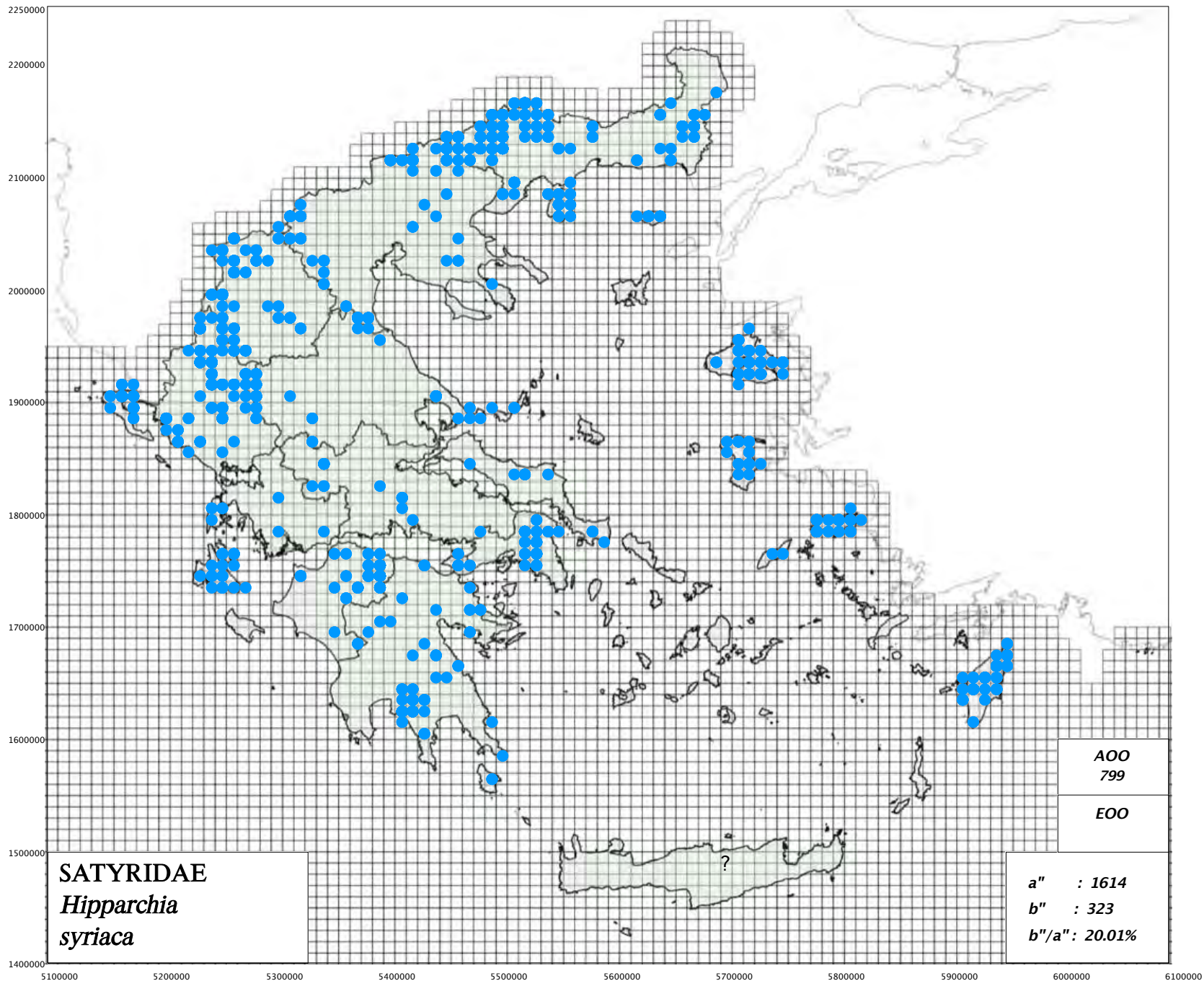






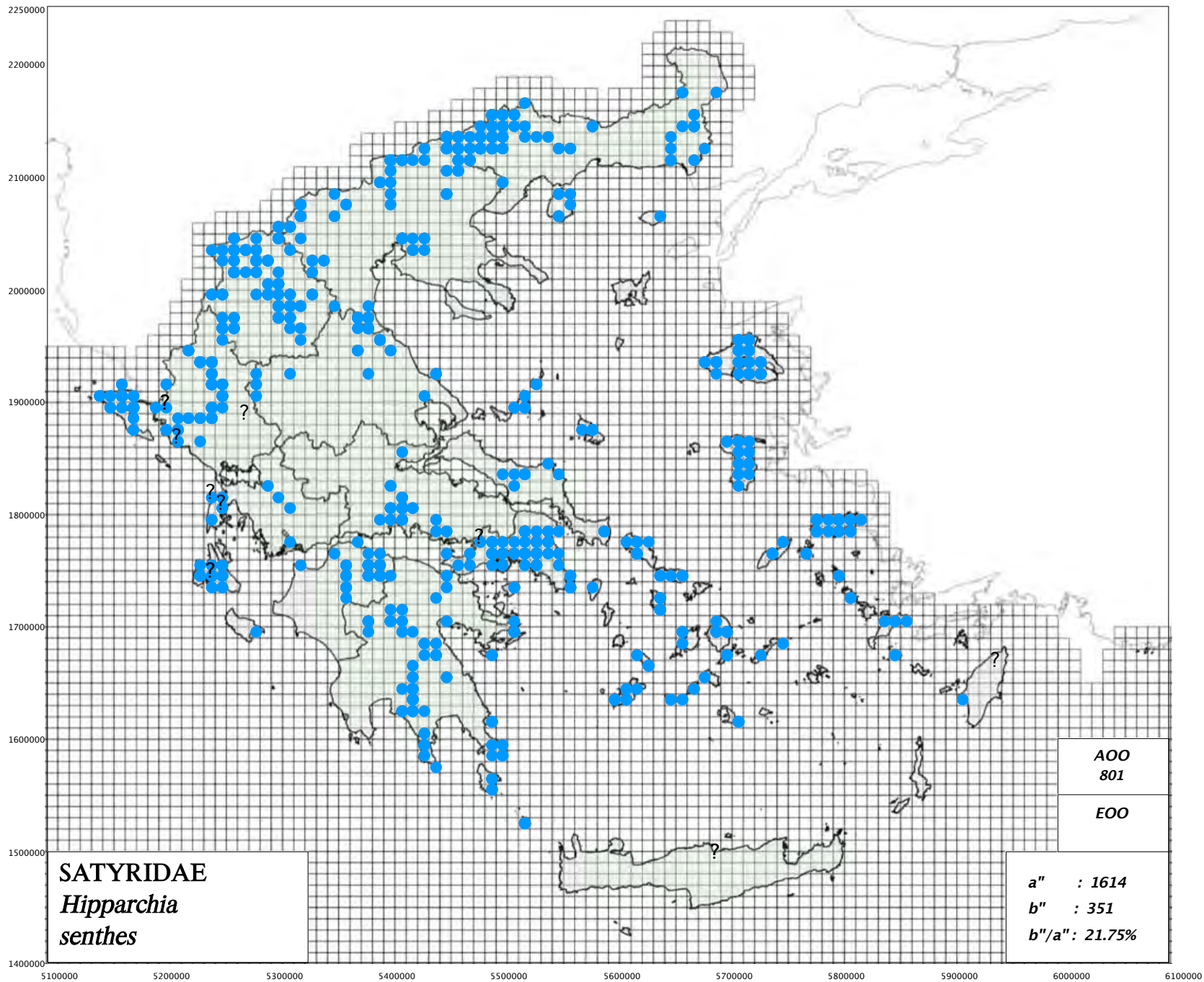


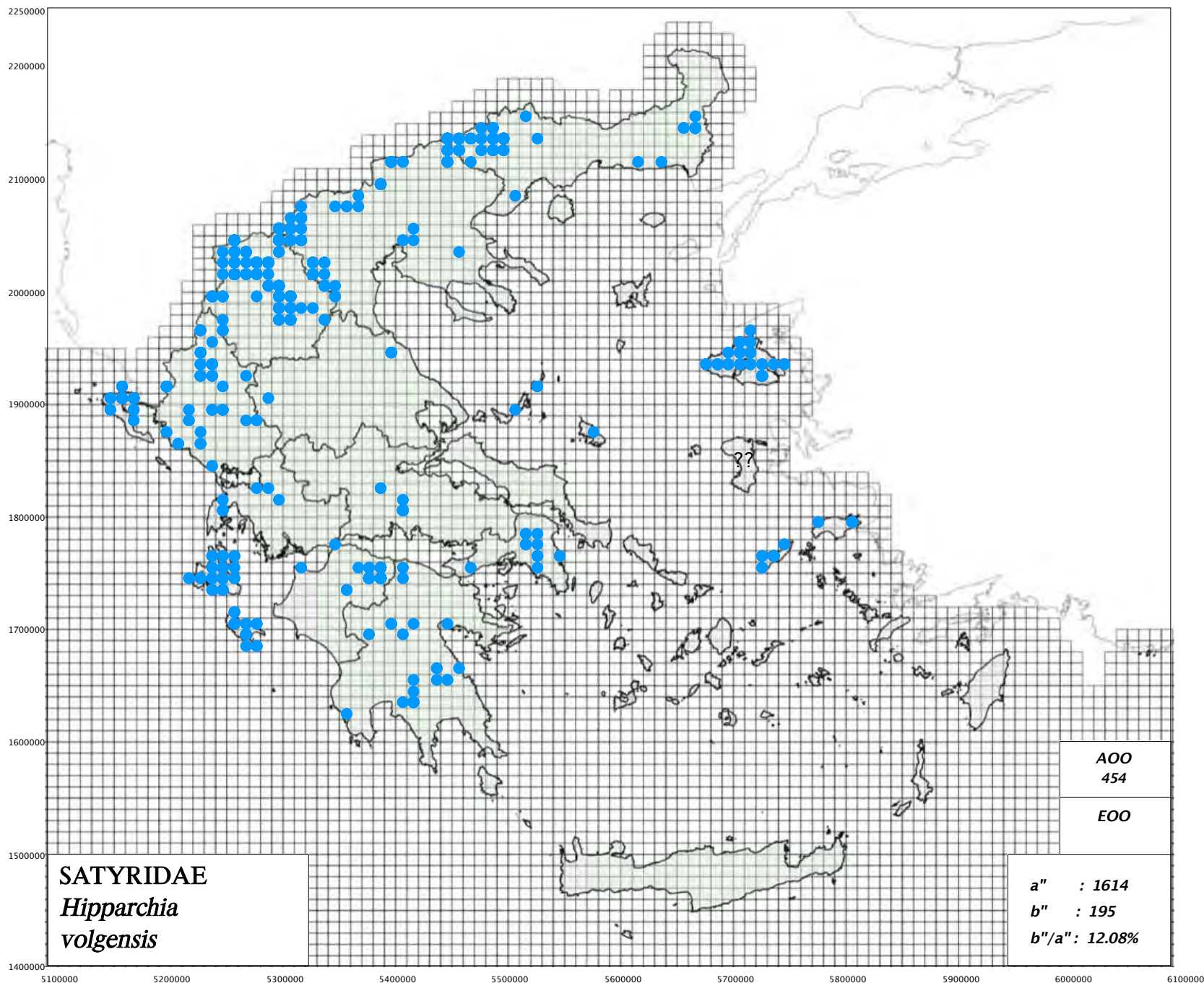




http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia_fagi_syriaca_complex.html

Αμφίβολη αναγνώριση /
Identification Uncertain

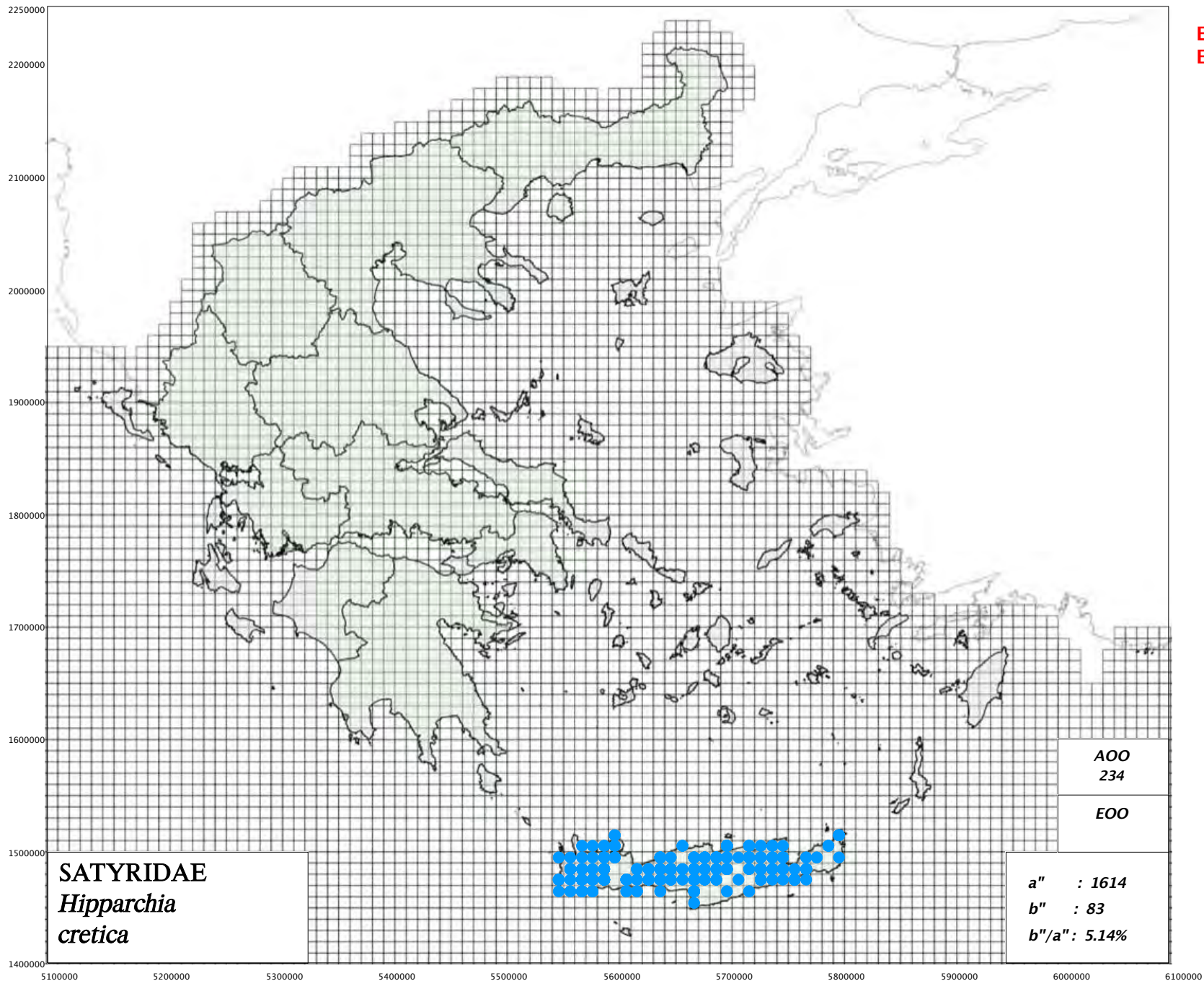


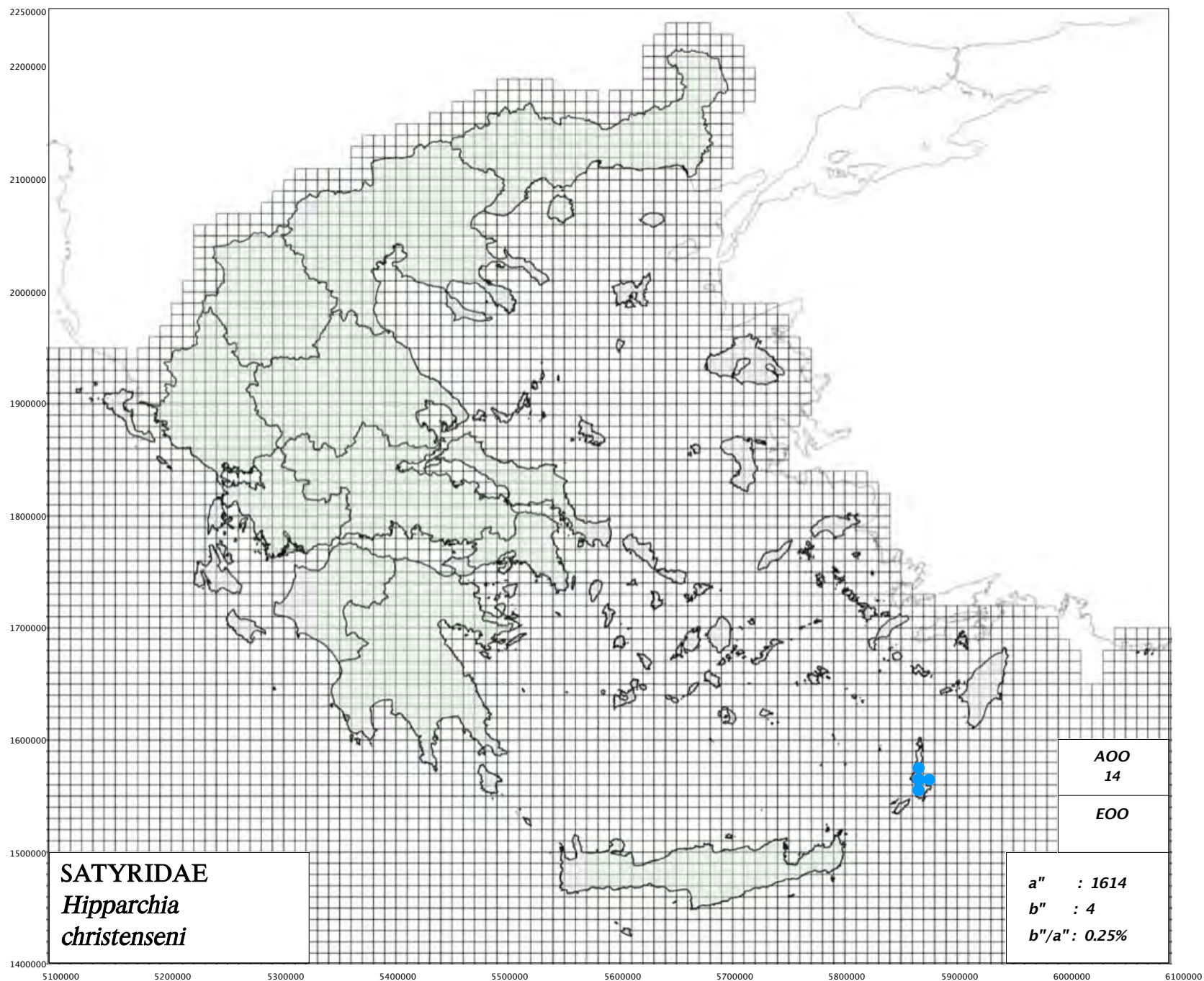


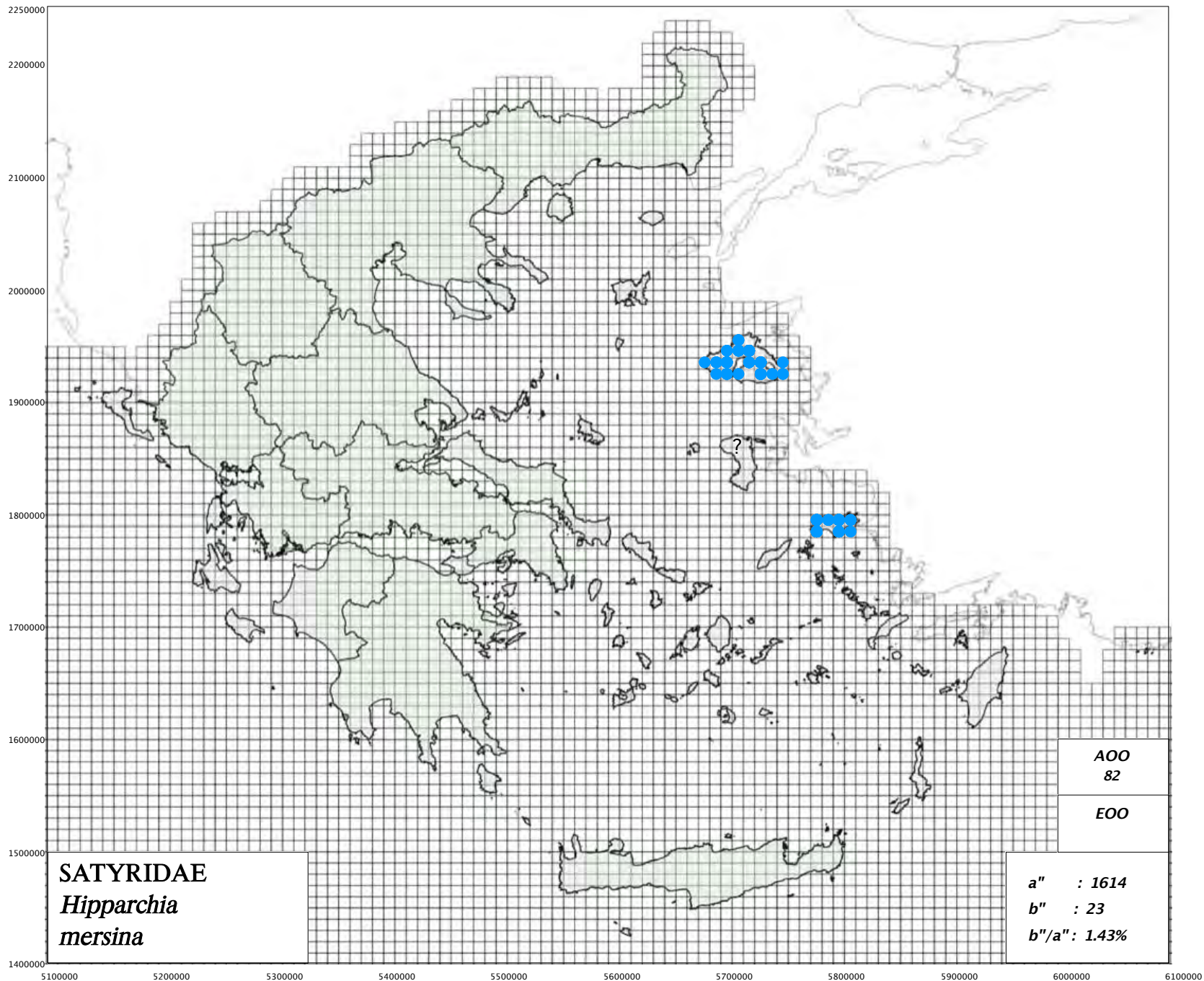
All records of *Hipparchia pellucida*, which is found that is not present in Greece (see in COUTSIS J. G. & BOZANO G. C.: The true identity of butterflies originally recorded as *Hipparchia* (*Parahipparchia*) *pellucida* (Stauder, 1923) from the Eastern Aegean Greek islands of Lésvos and Ikaria (Lepidoptera: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

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

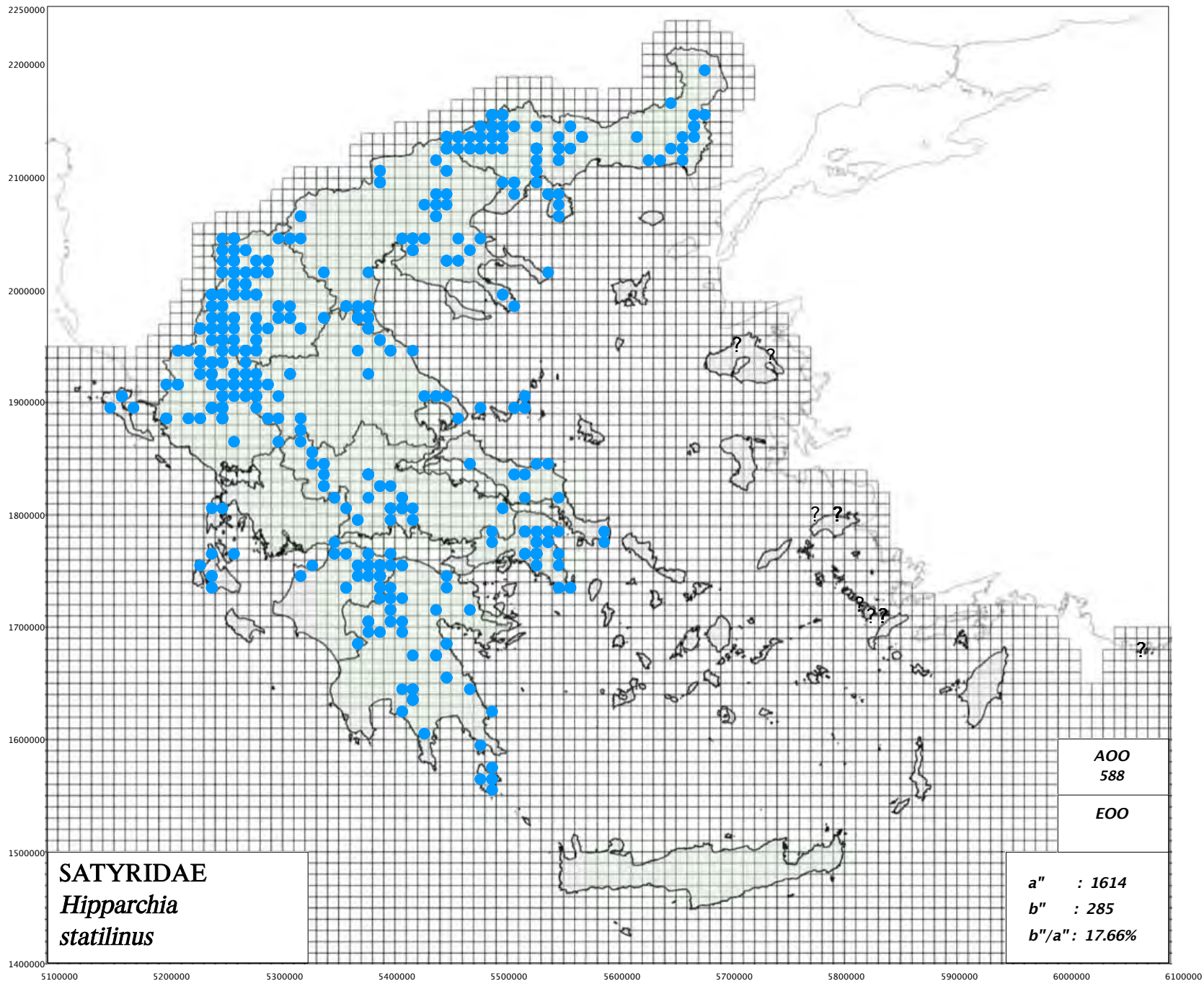
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

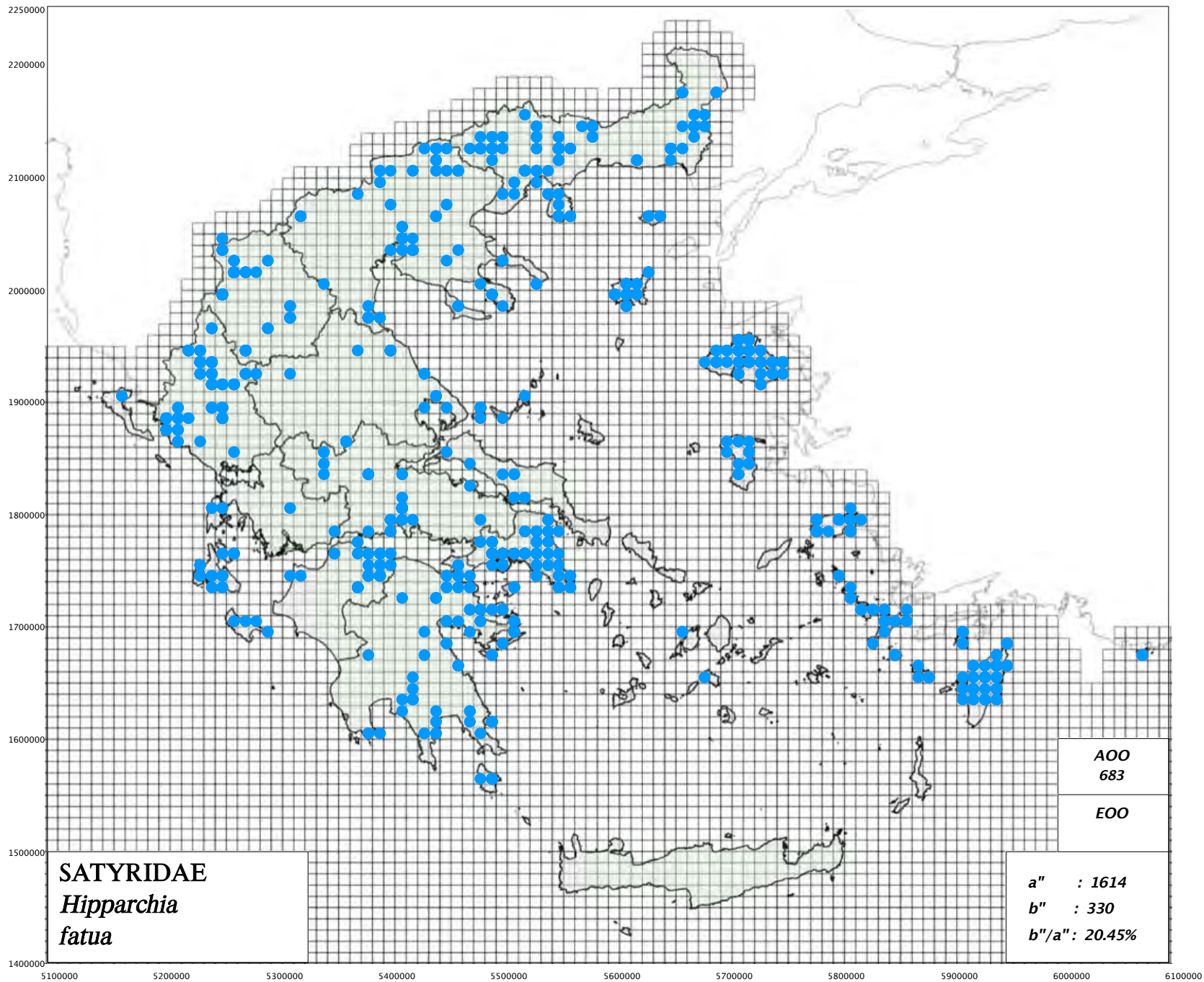




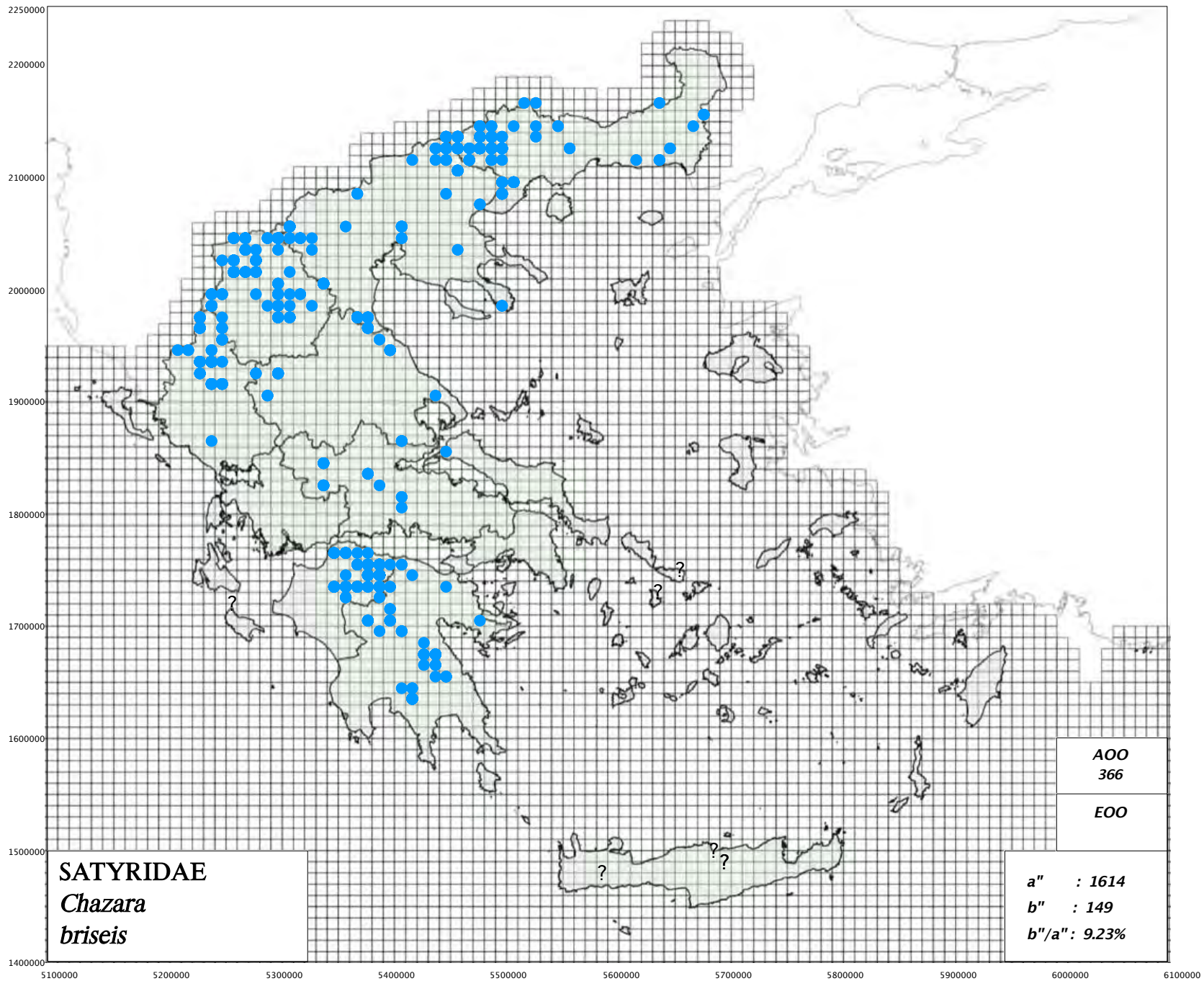


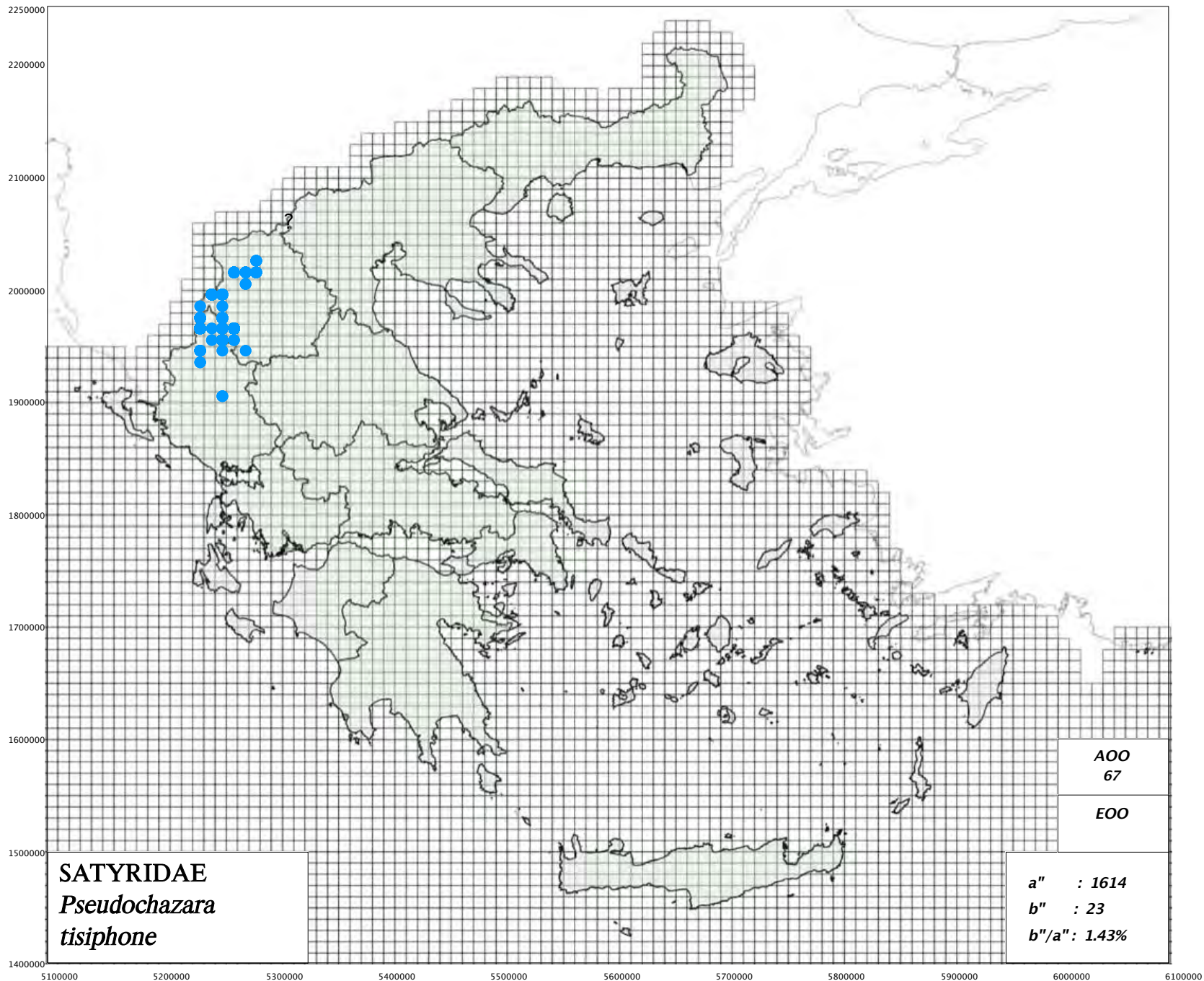
http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia_senthes_volgensis_cretica_christenseni_mersina_complex.html



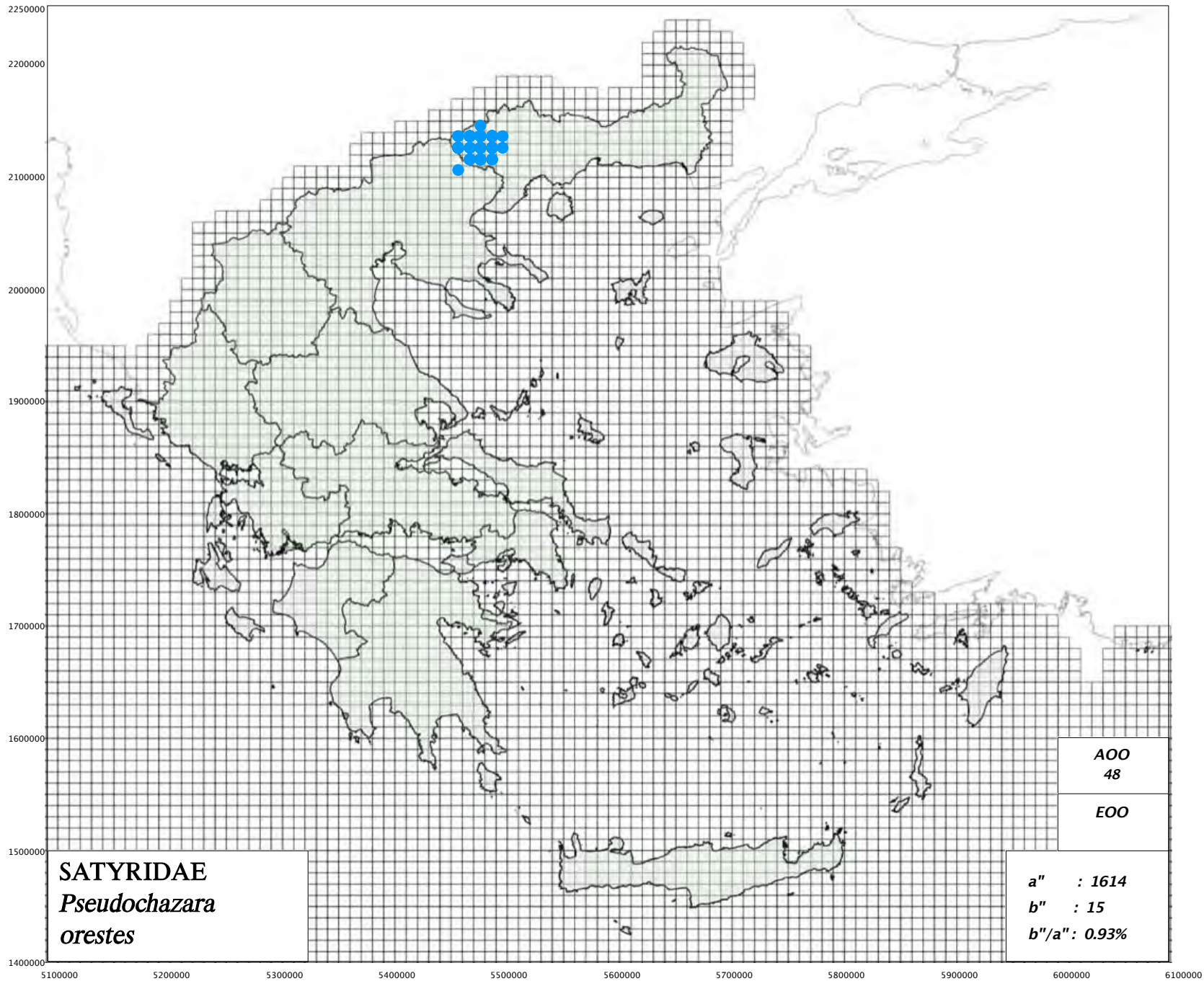


http://www.pamperis.gr/PHOTOGRAPHS/Hipparchia_fatua,_Hipparcia_statilinus.html

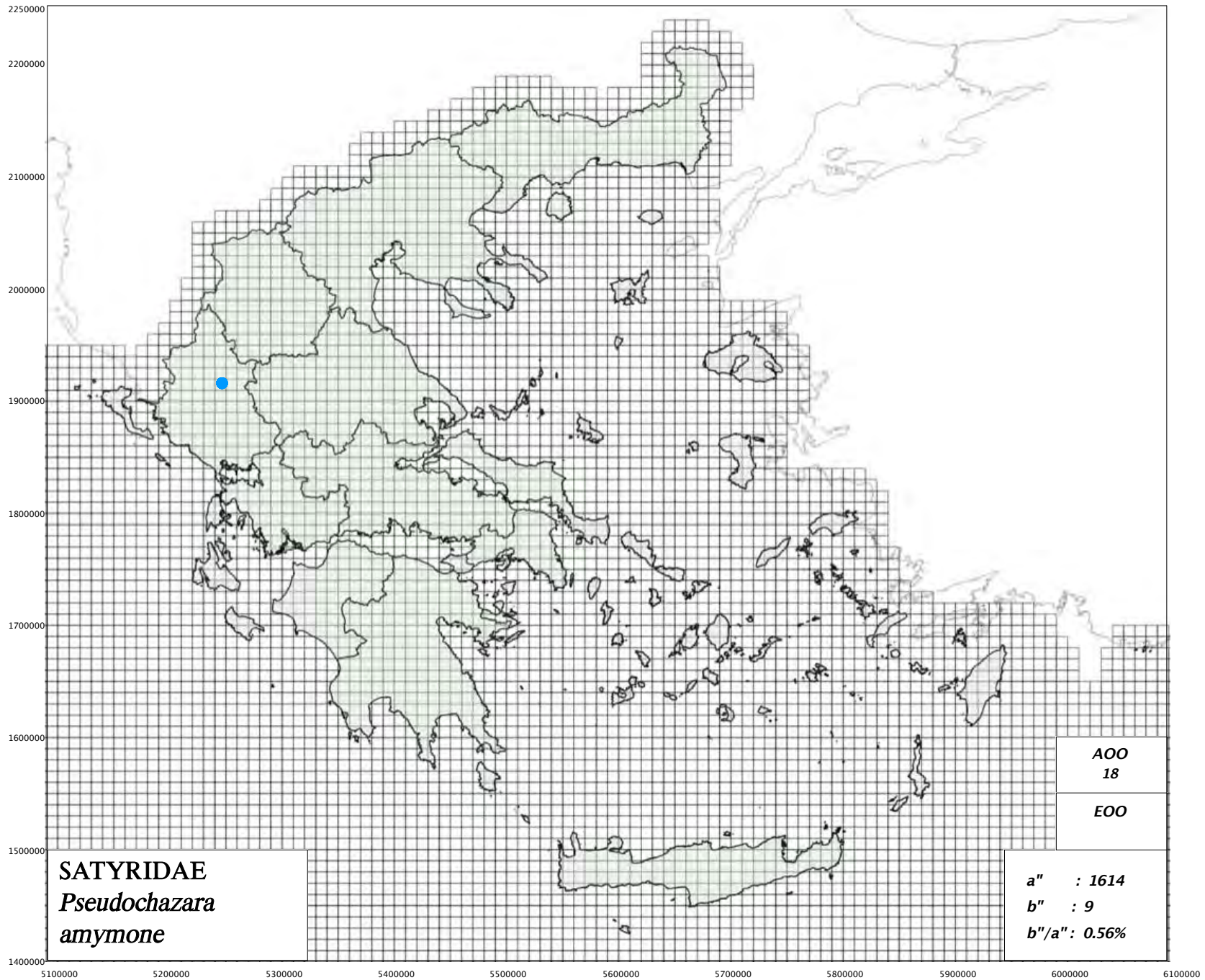




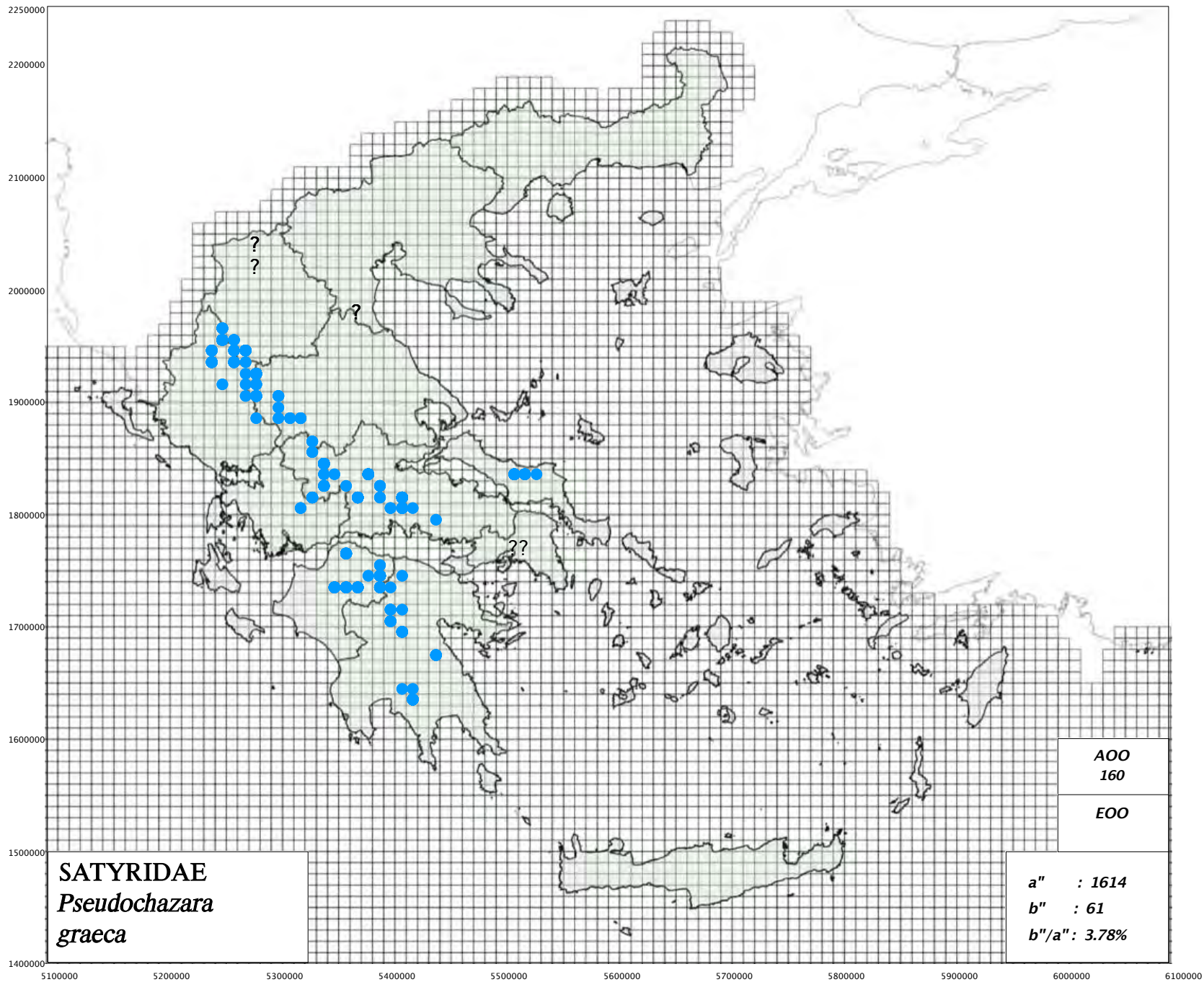
<https://www.pamperis.gr/PHOTOGRAPHS/Pseudochazara.html>

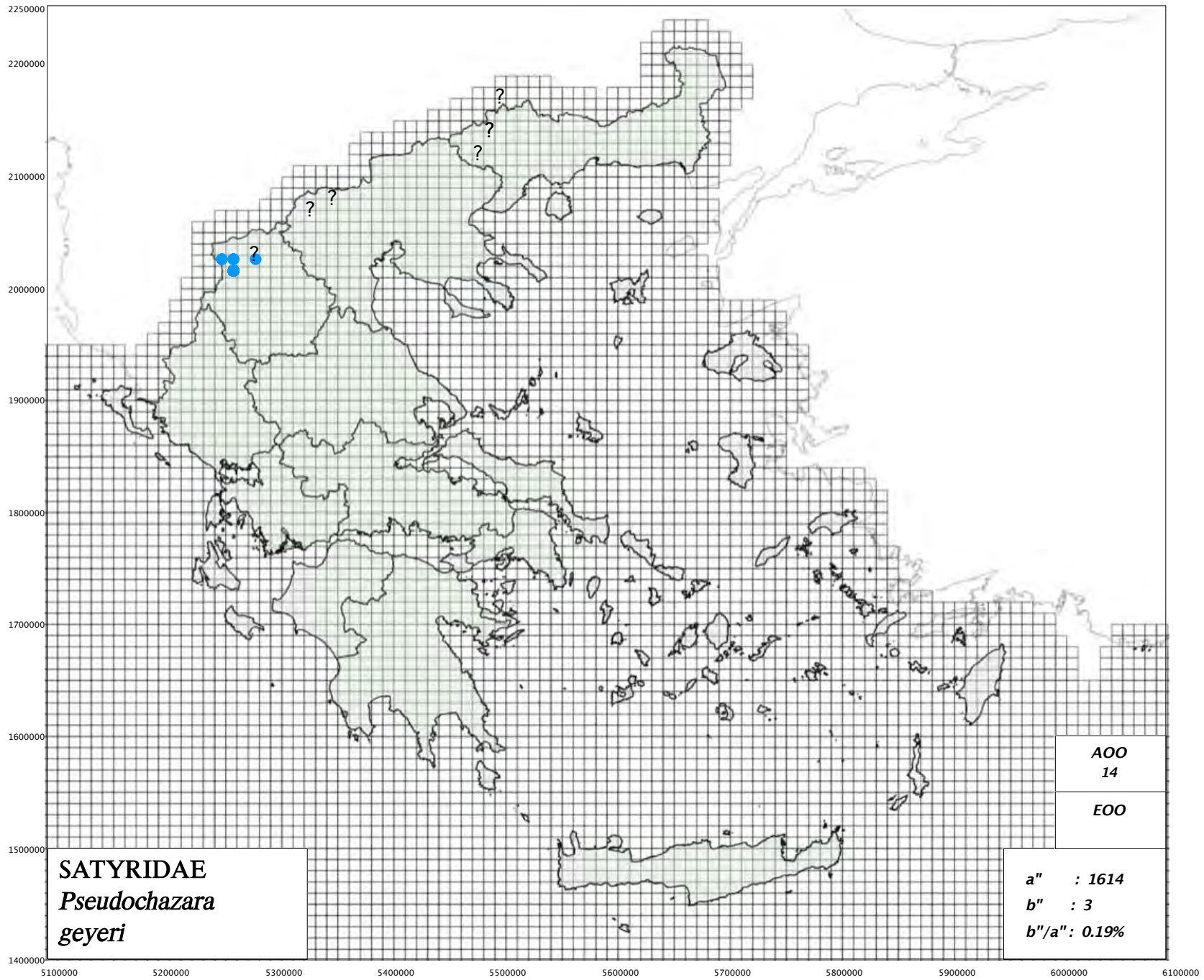


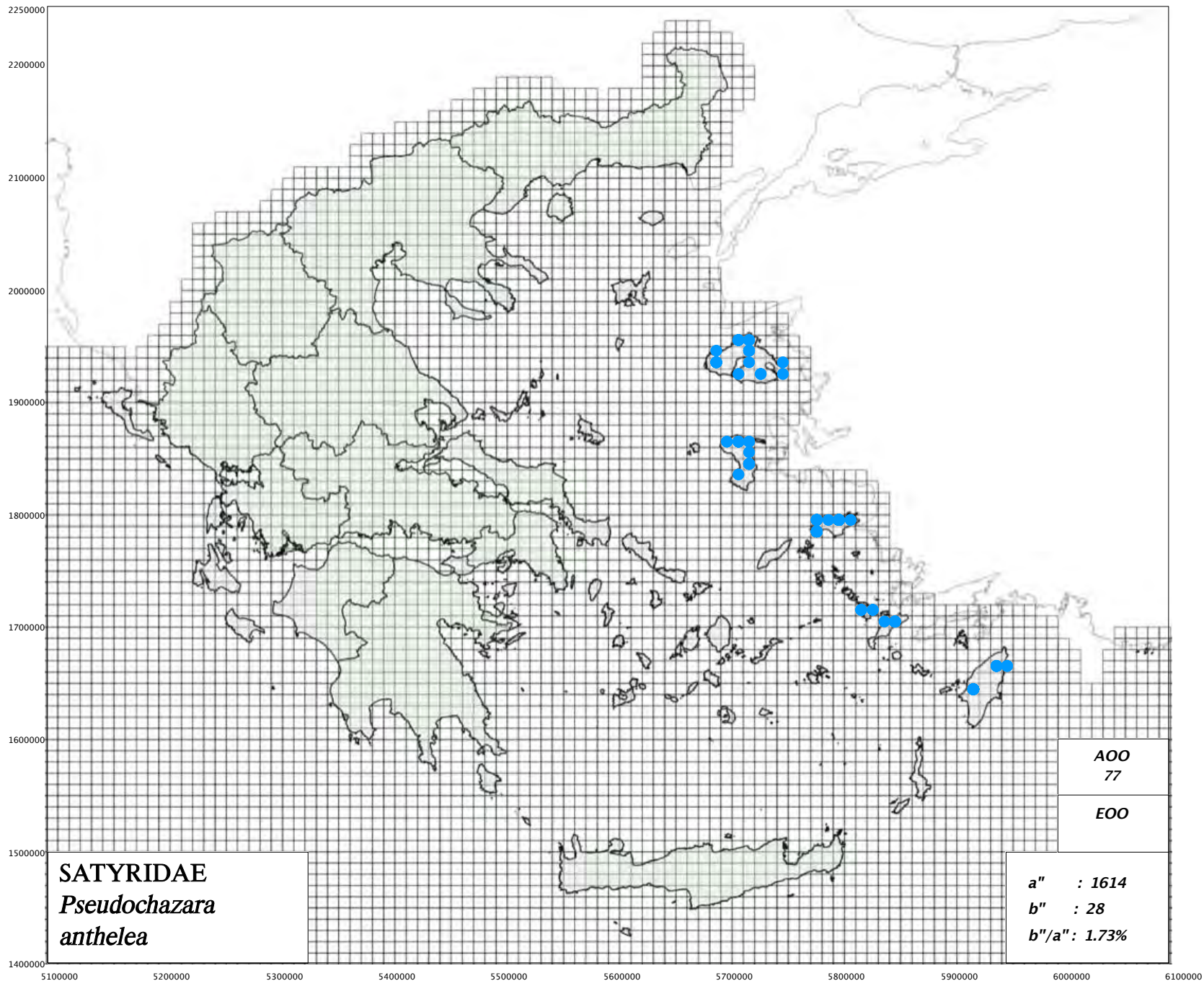
<https://www.pamperis.gr/PHOTOGRAPHS/Pseudochazara.html>



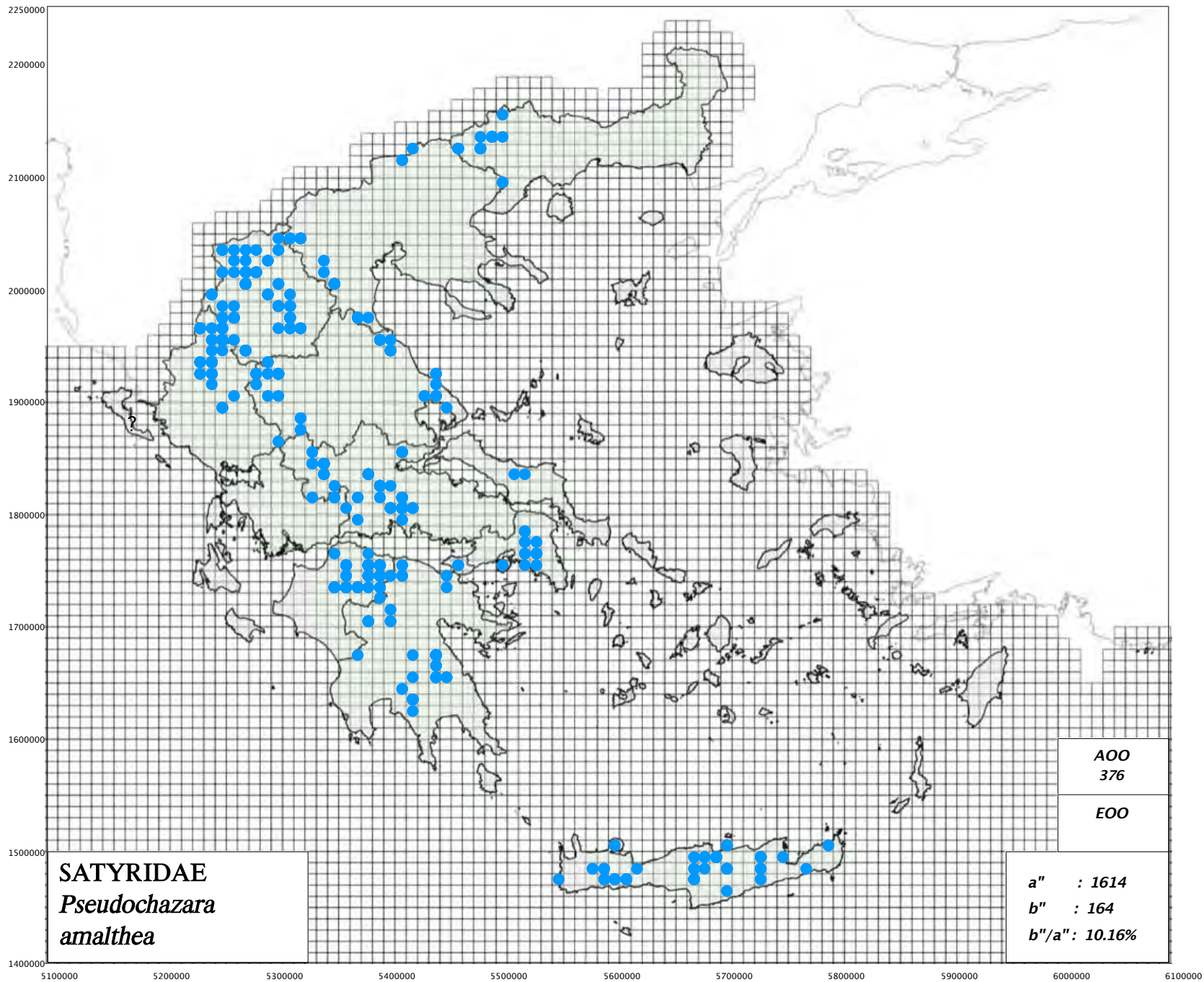
<https://www.pamperis.gr/PHOTOGRAPHS/Pseudochazara.html>

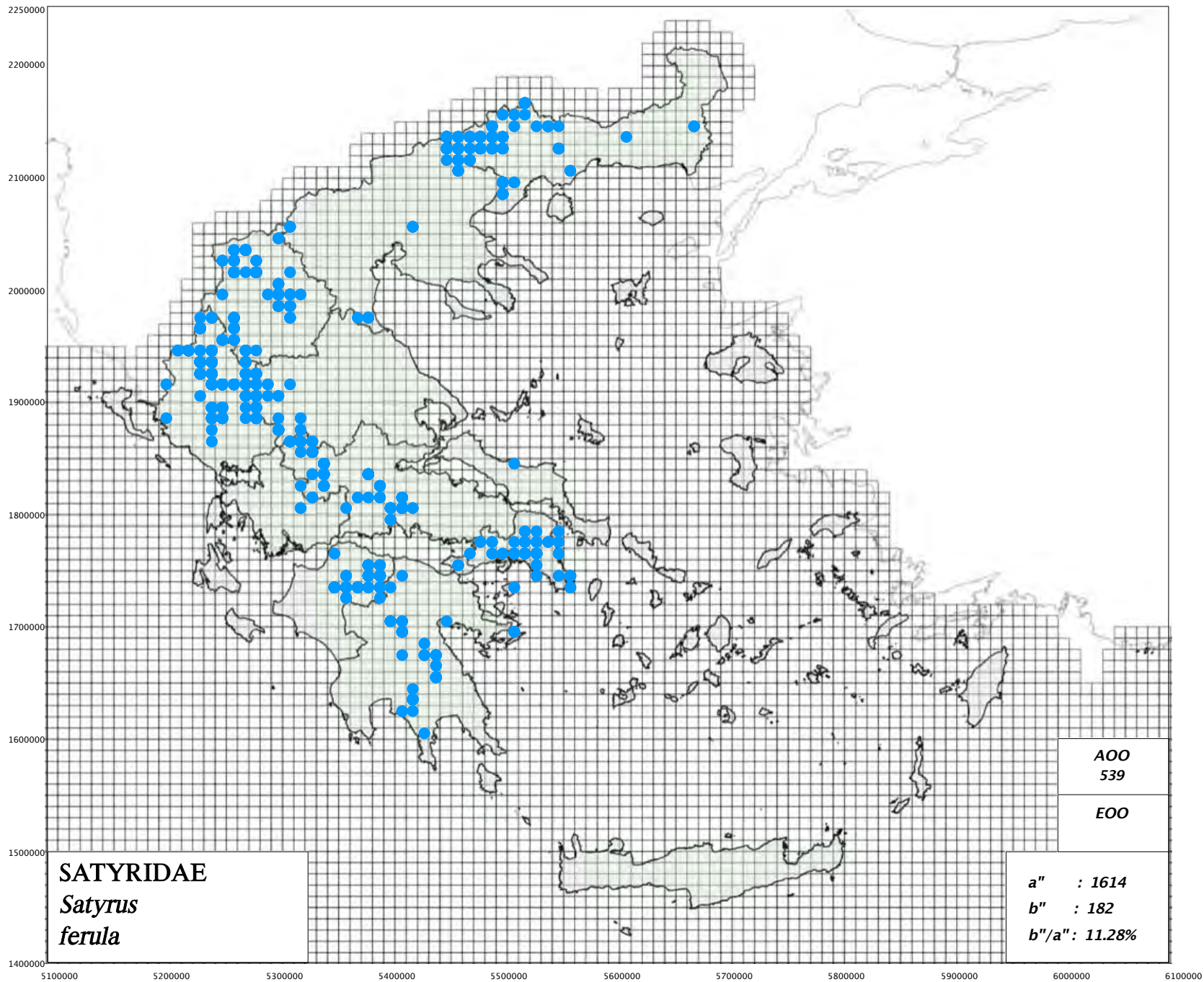


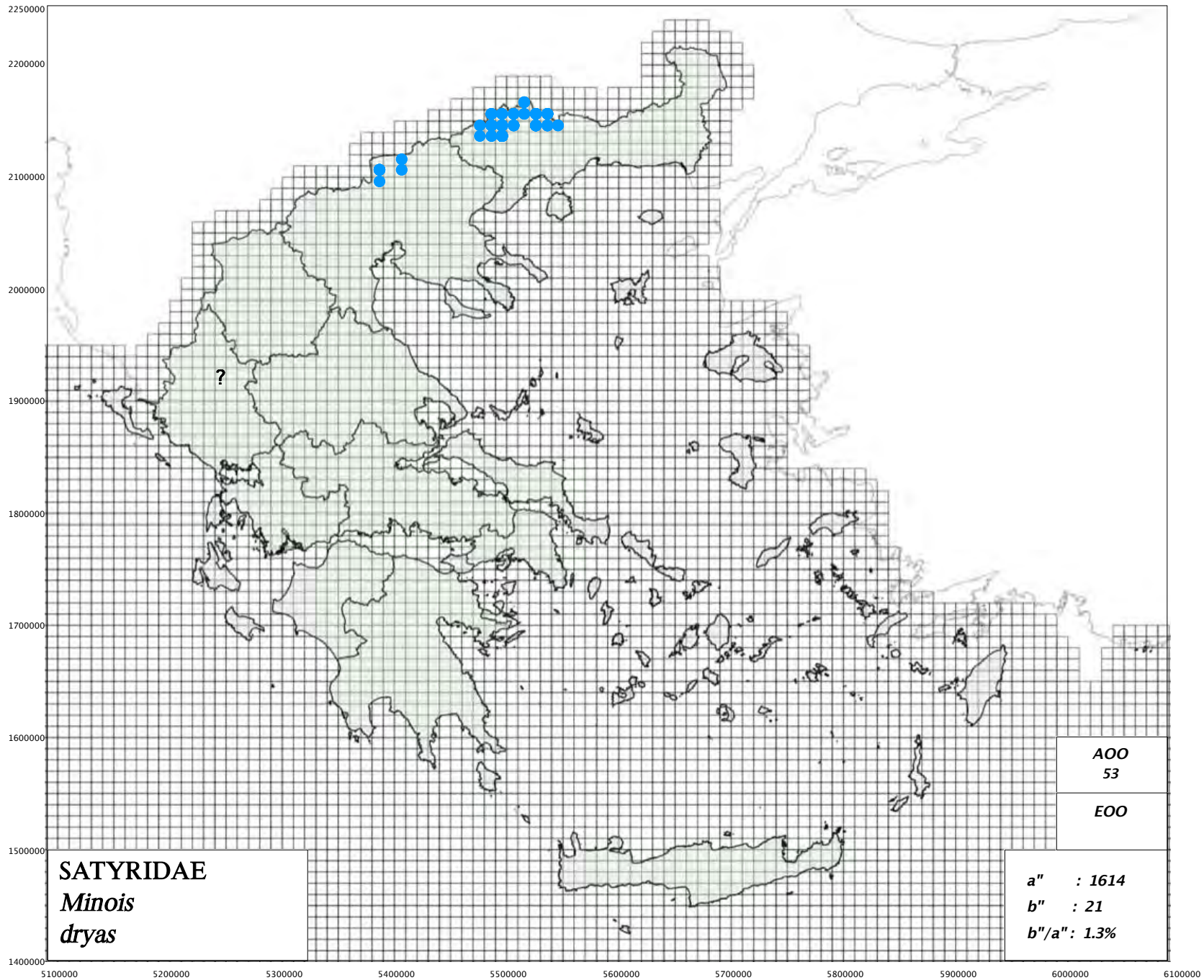


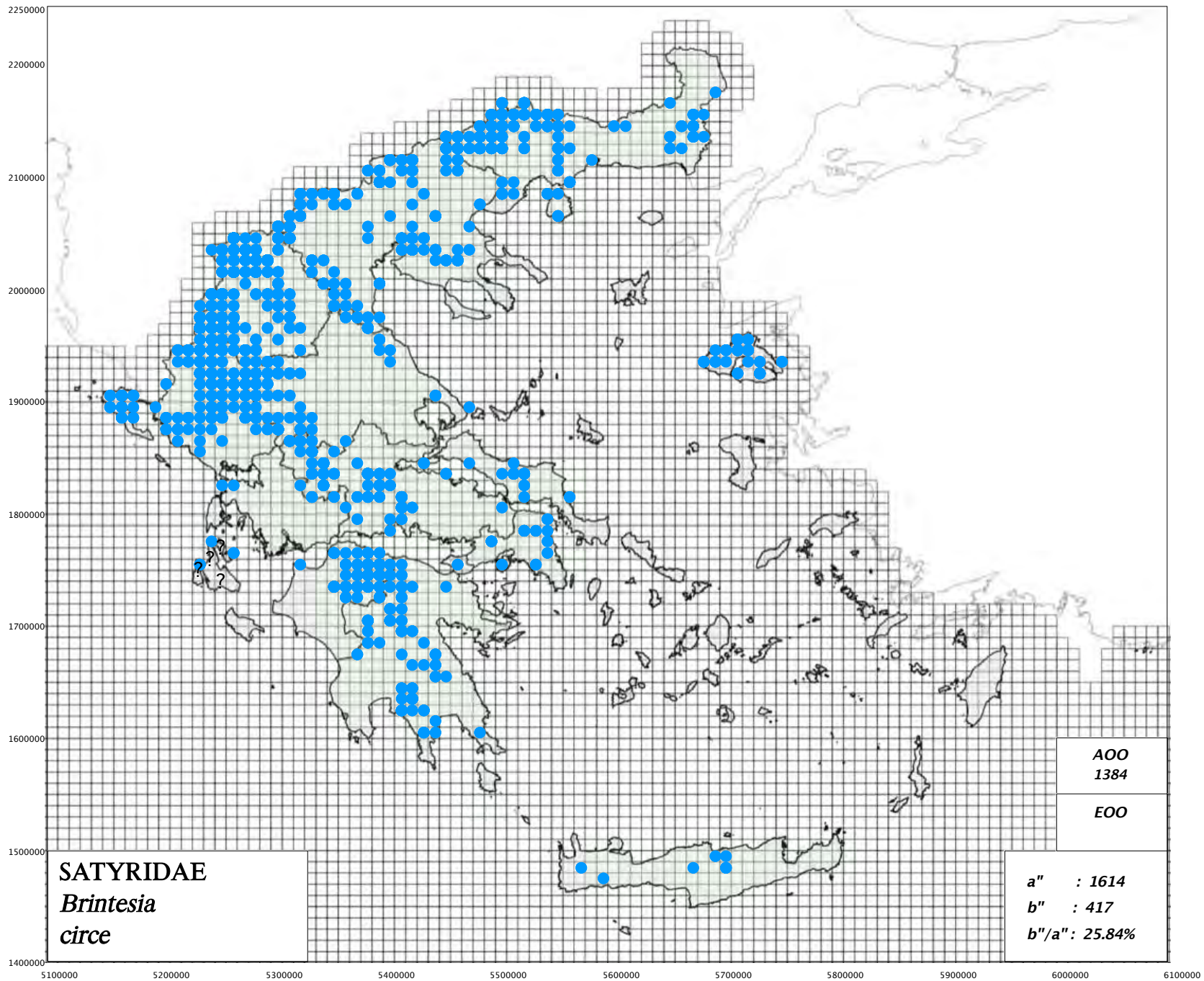


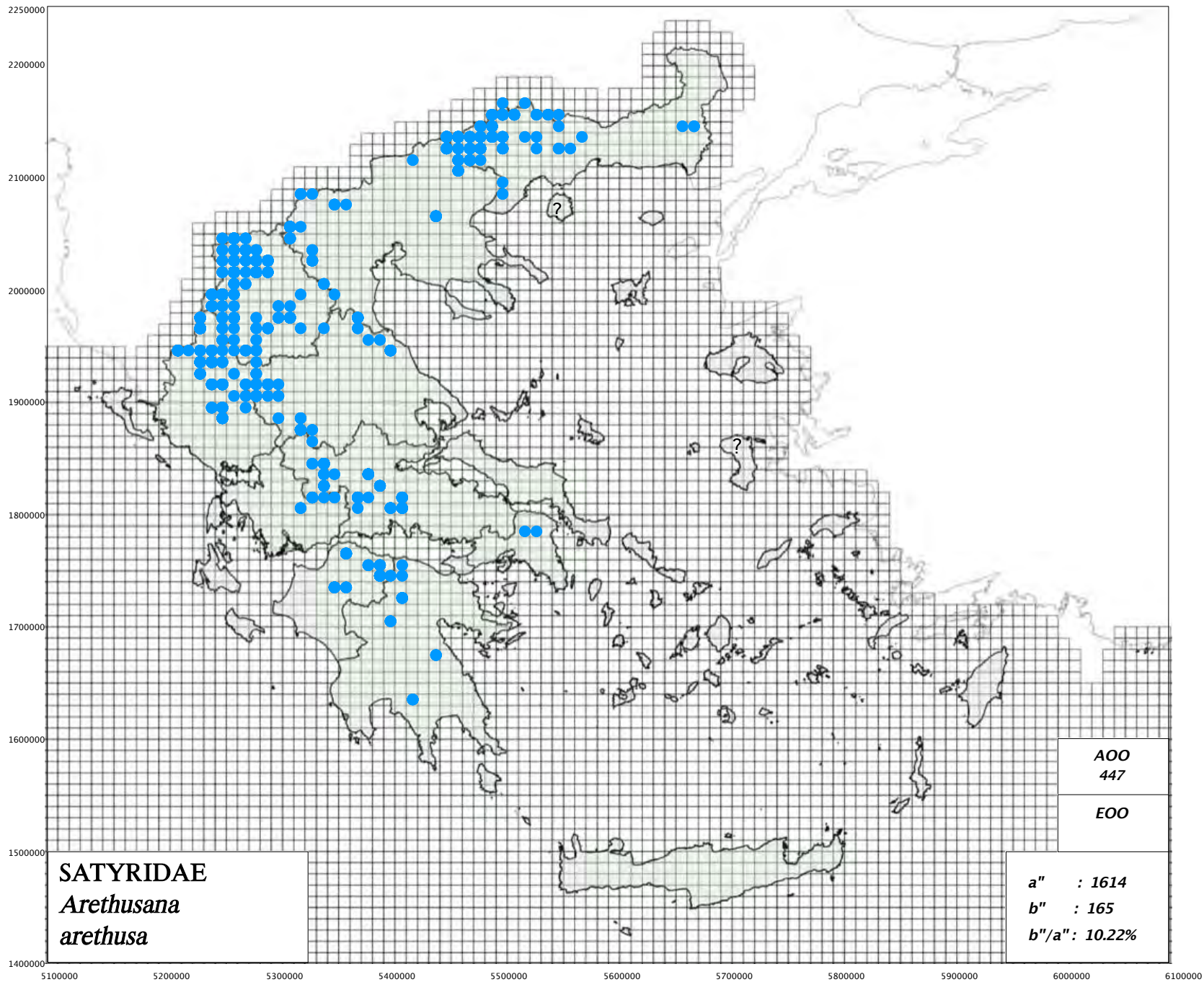
http://www.pamperis.gr/PHOTOGRAPHS/Pseudochazara_anthelea_amalthea_complex.html

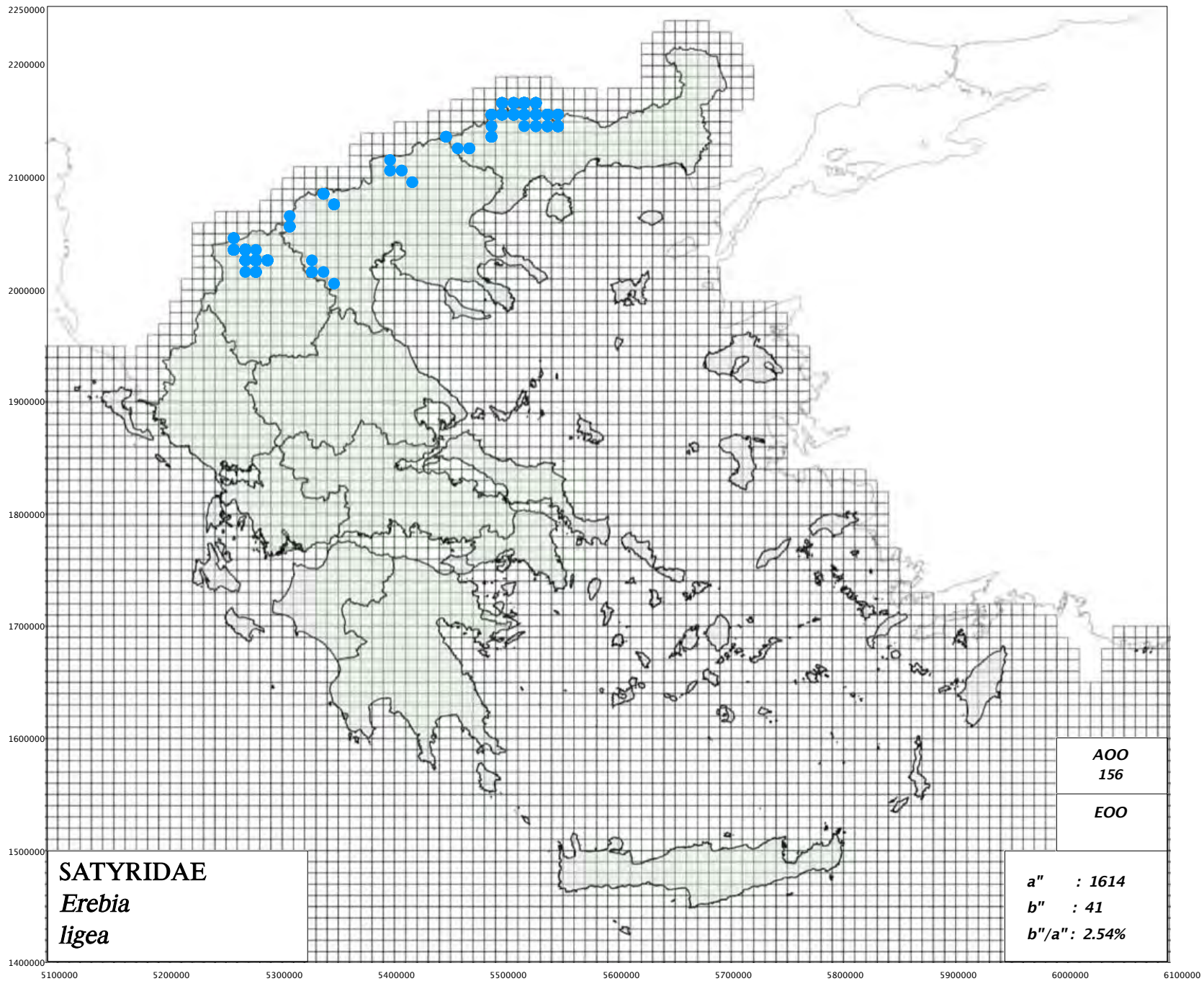


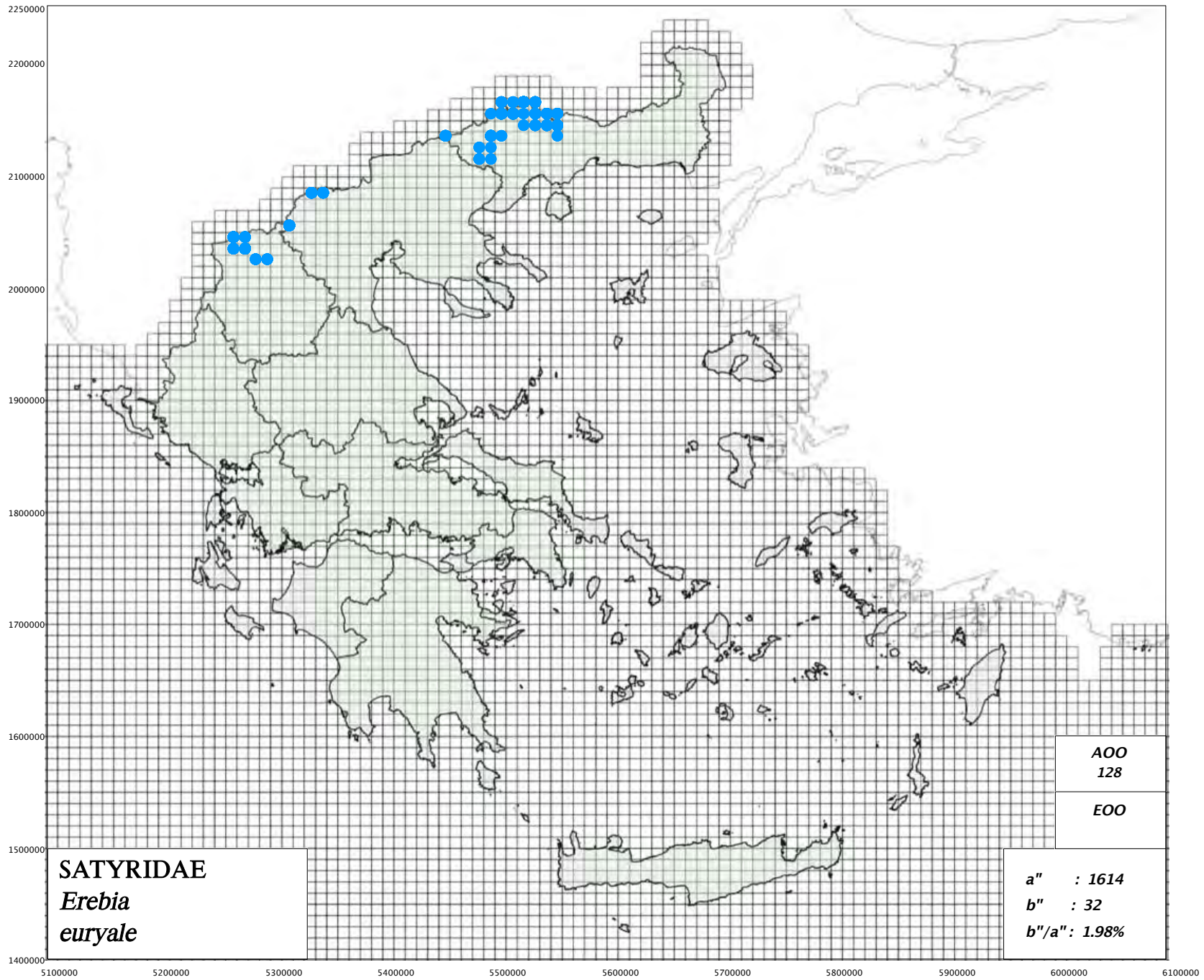


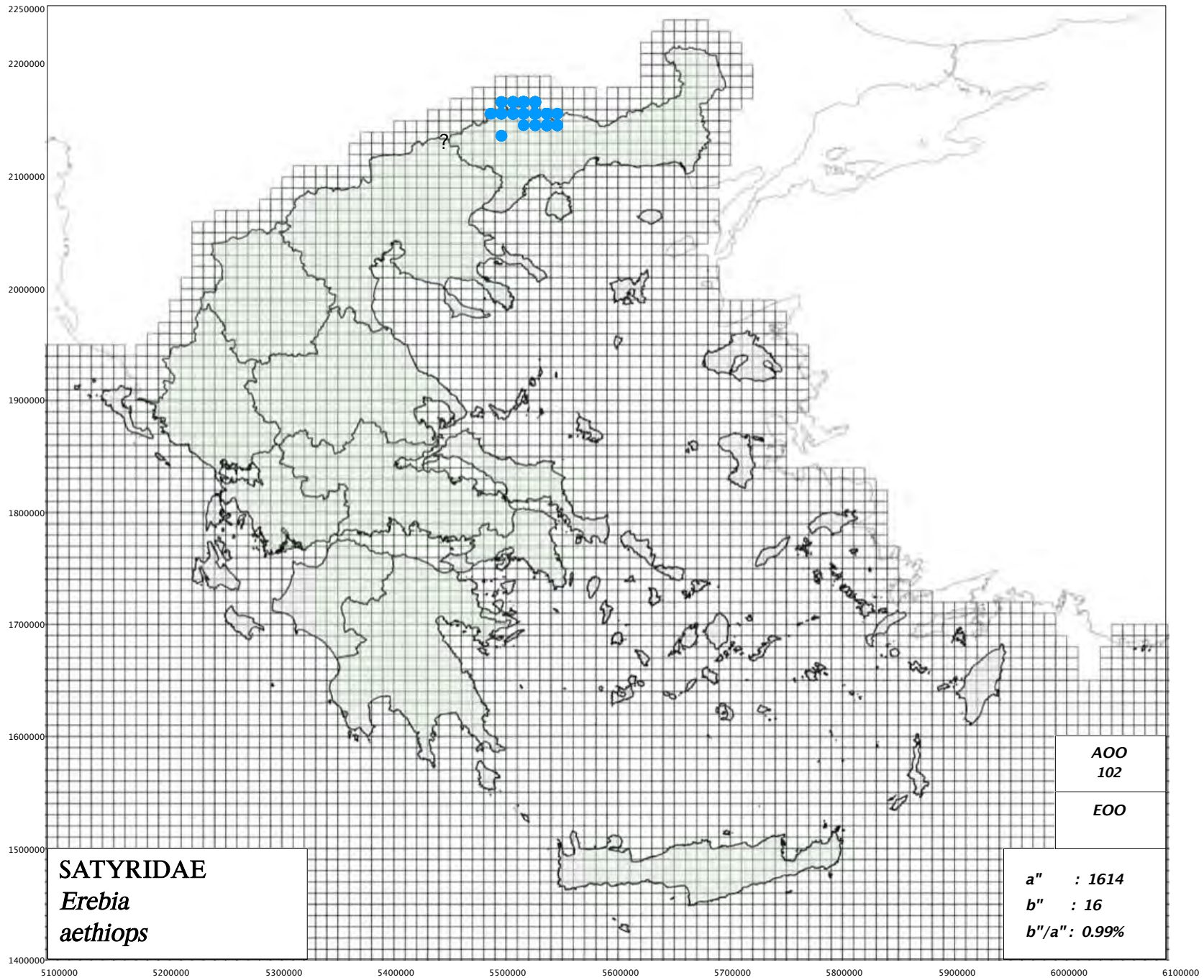


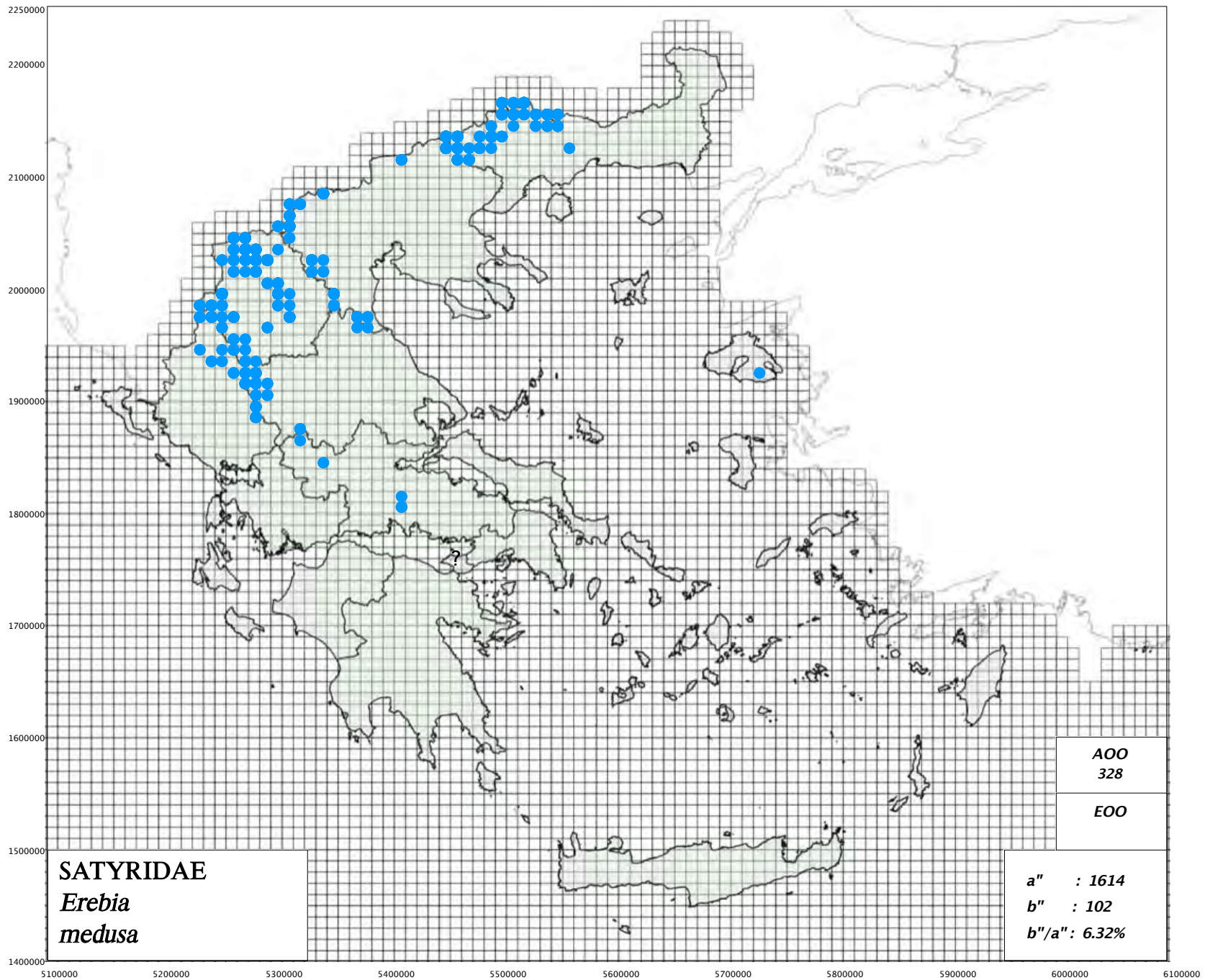


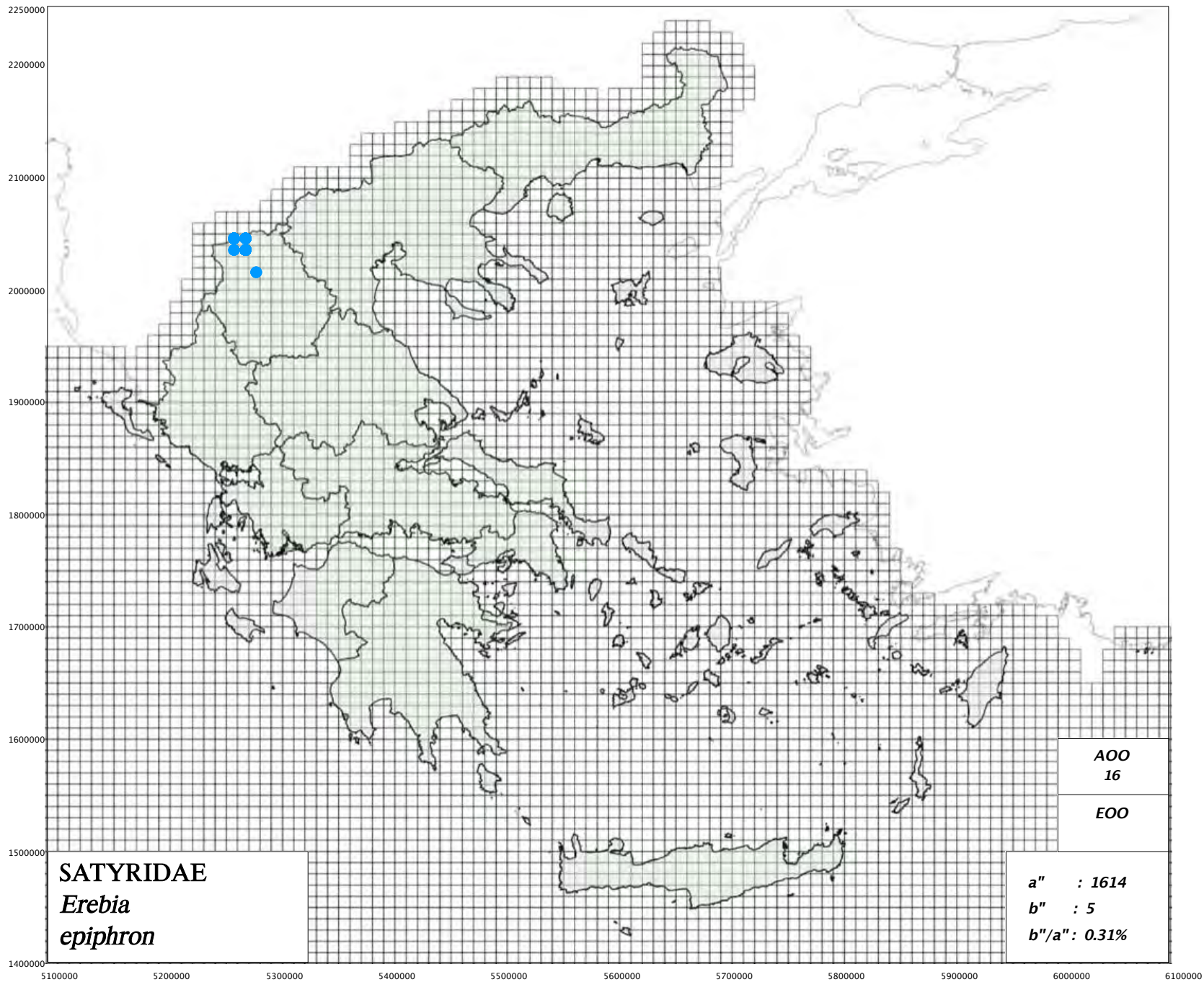


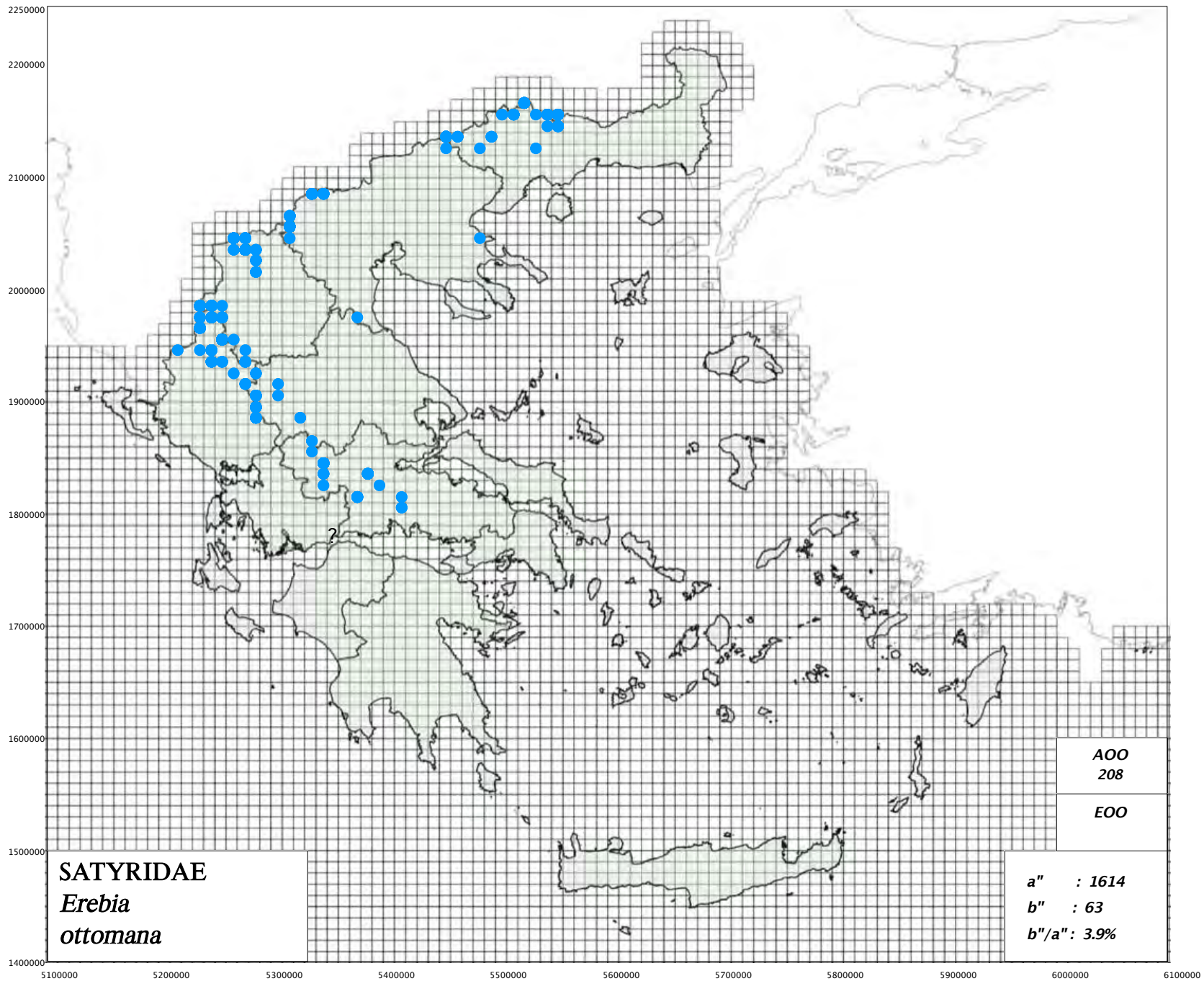


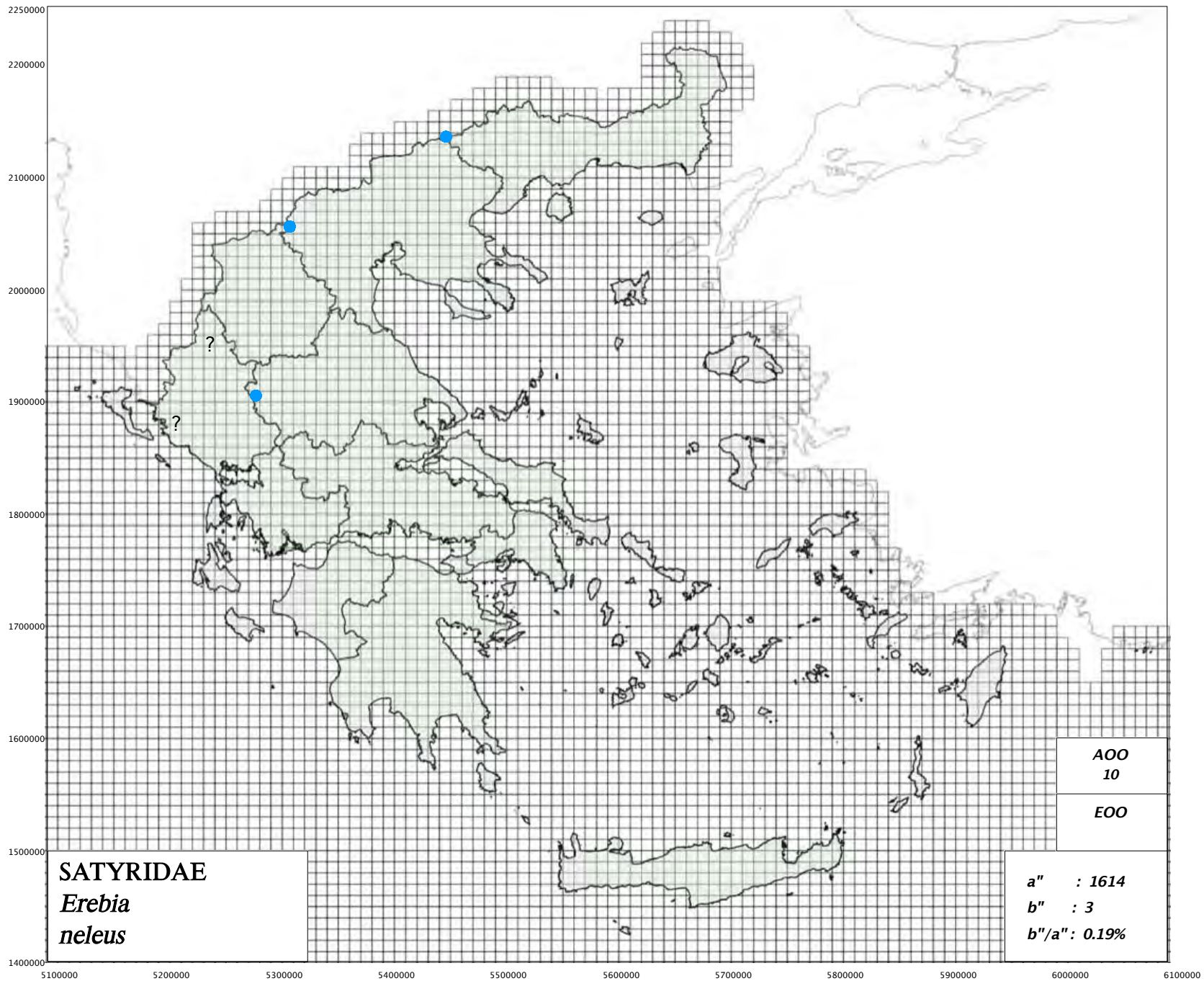


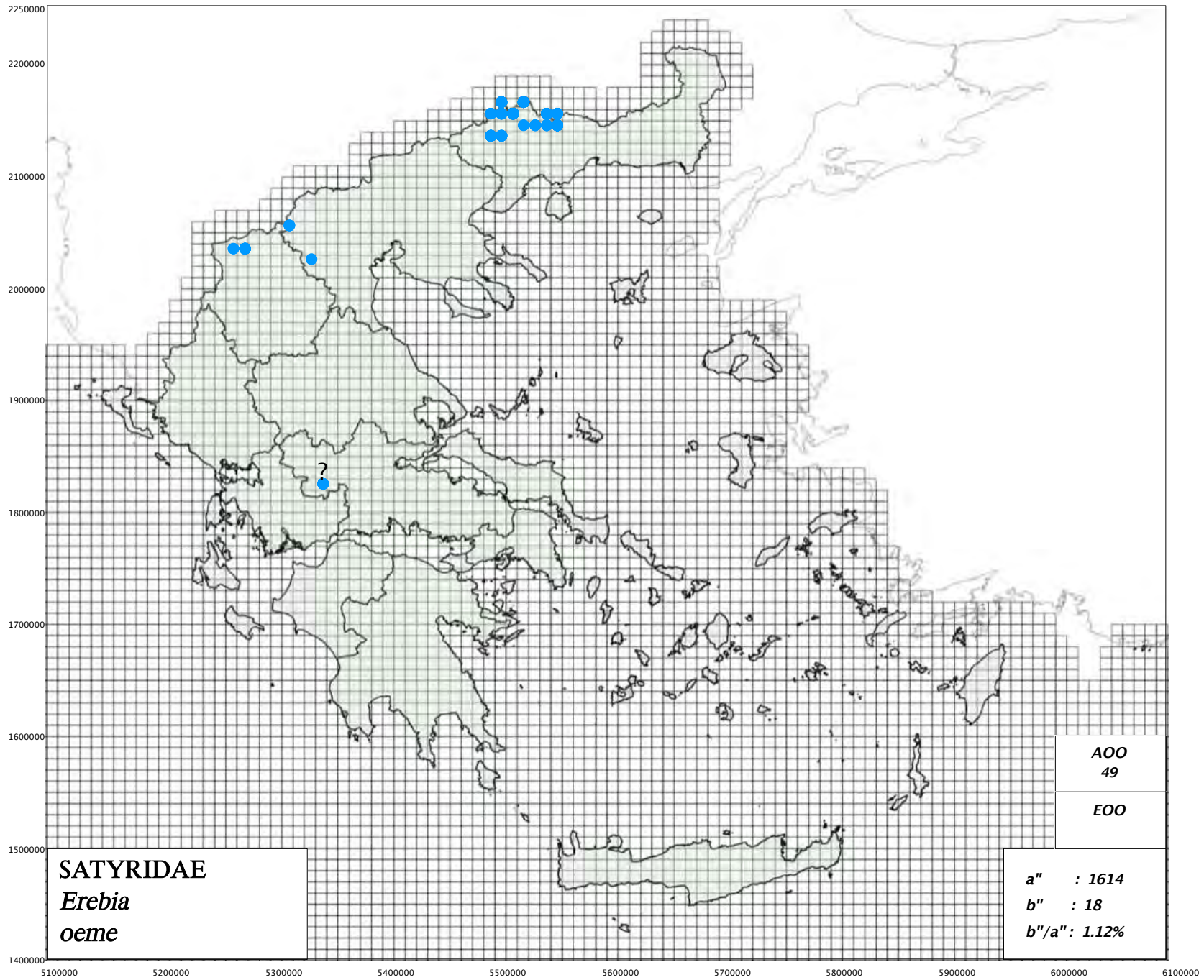


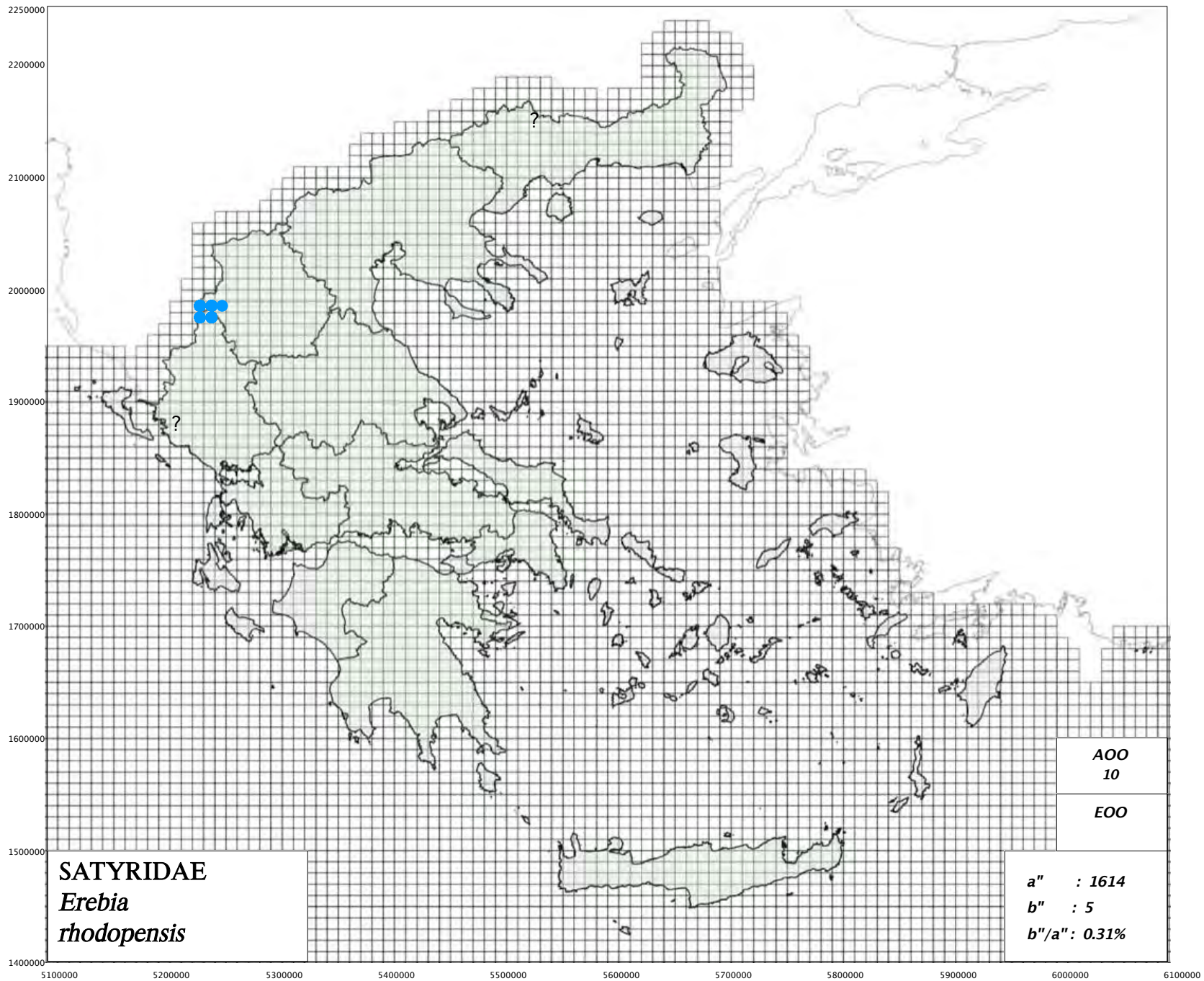


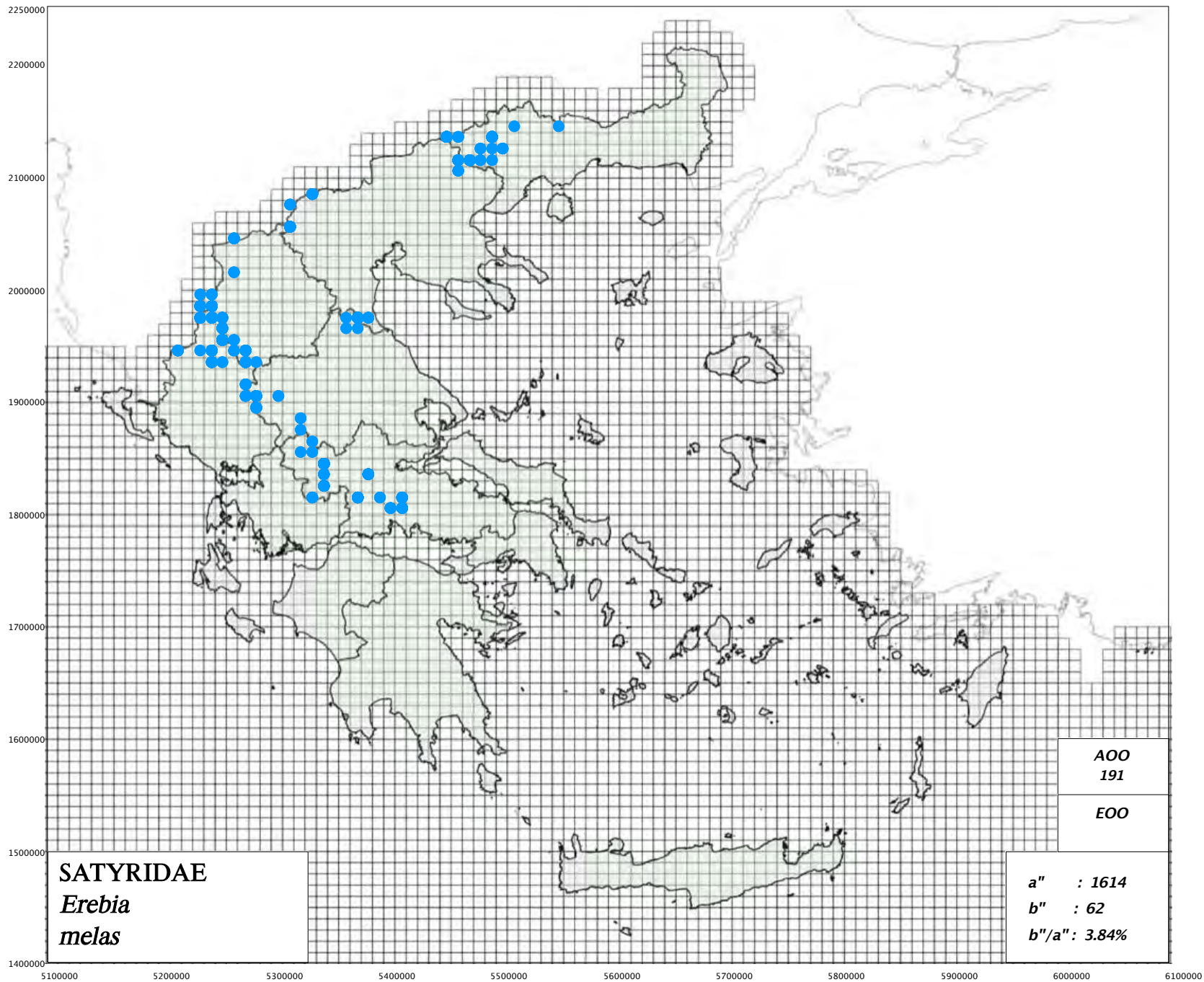


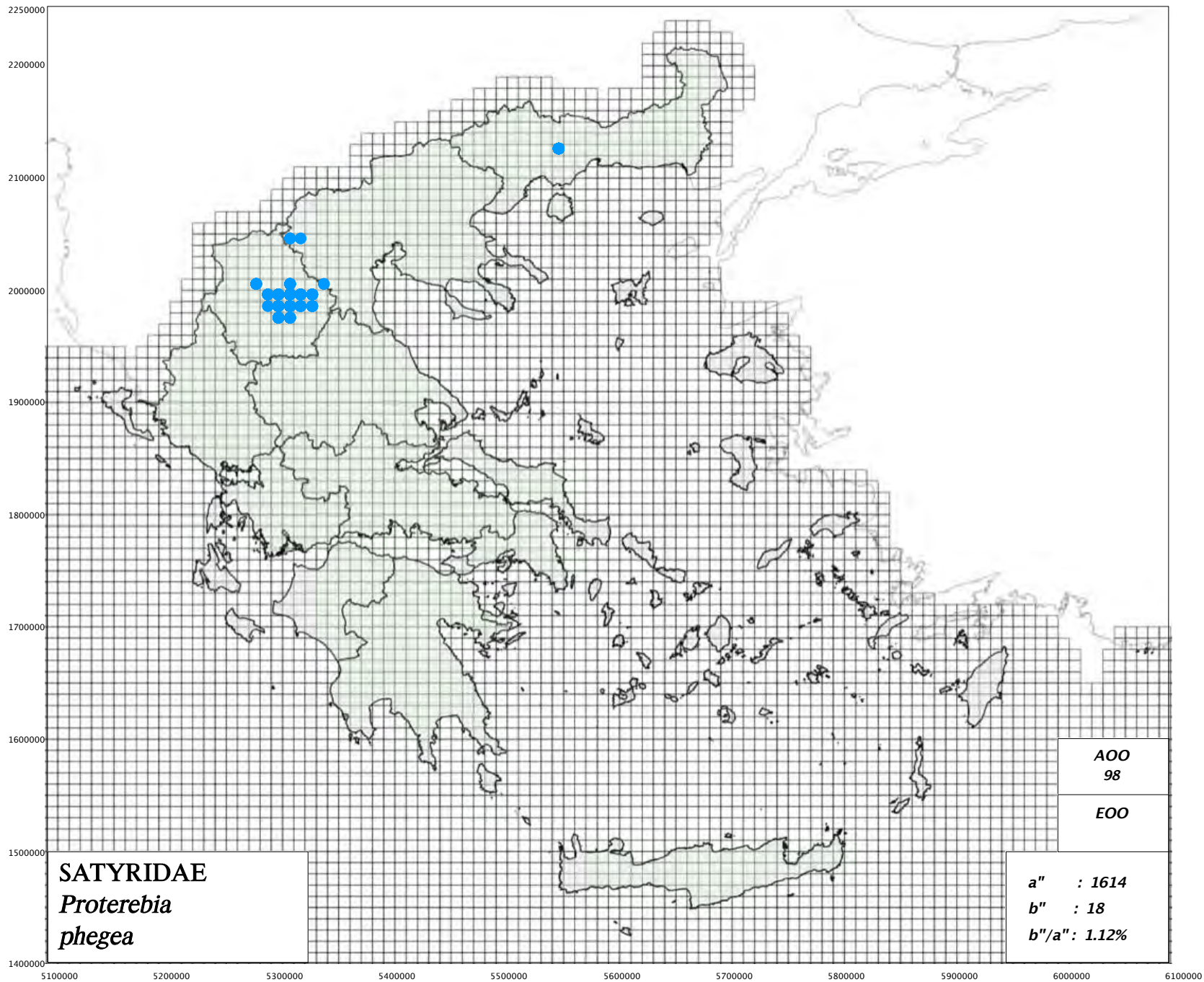


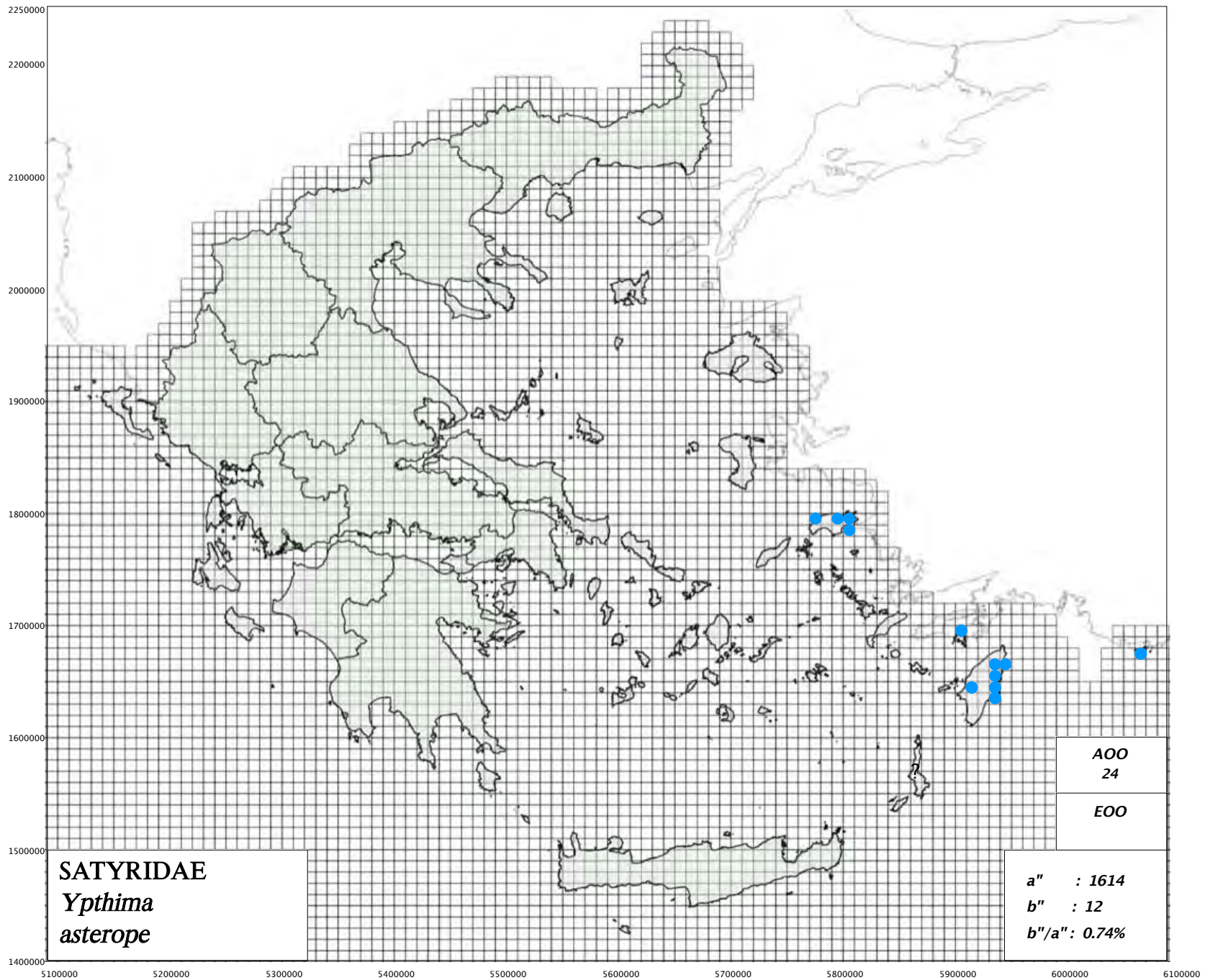


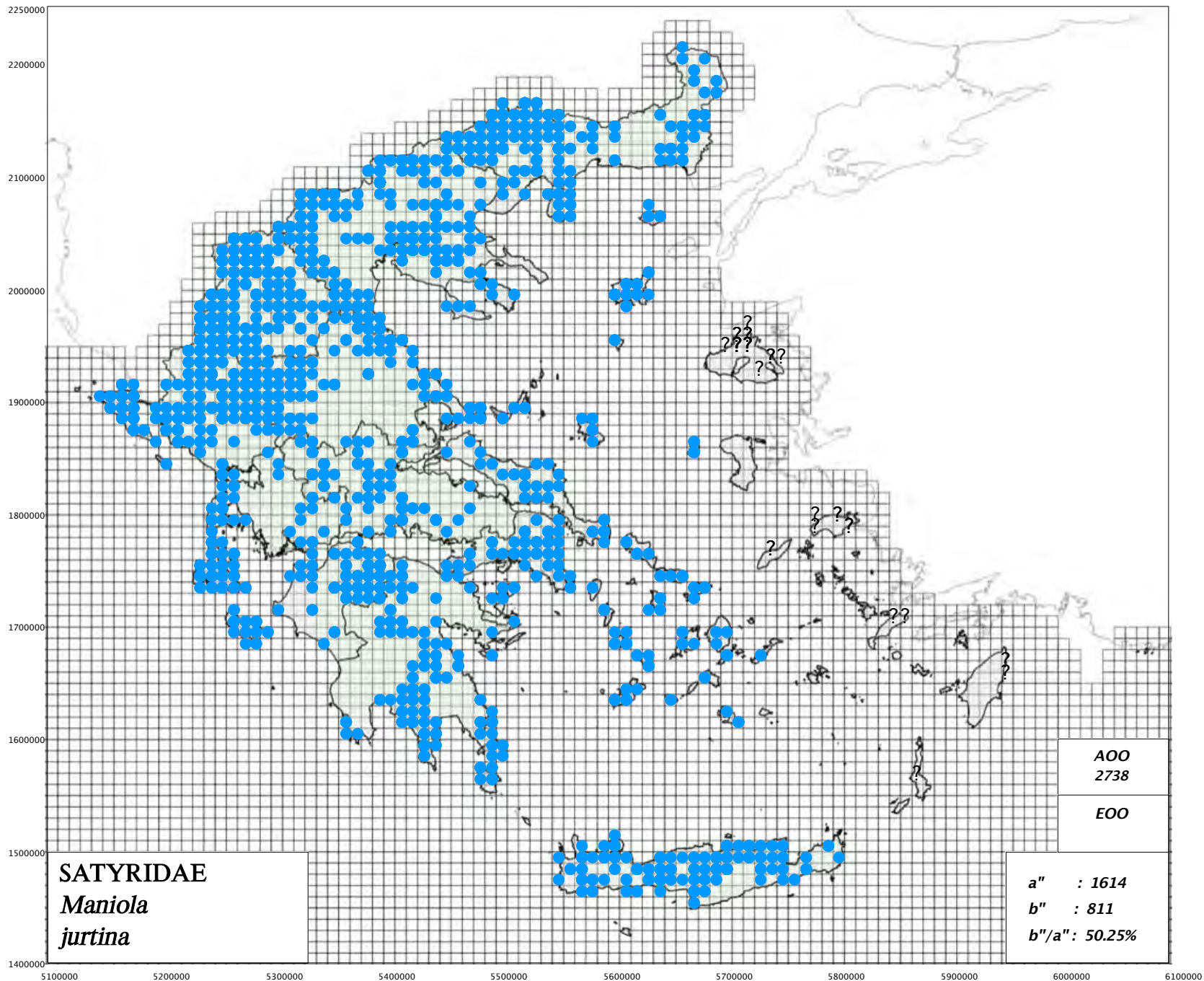




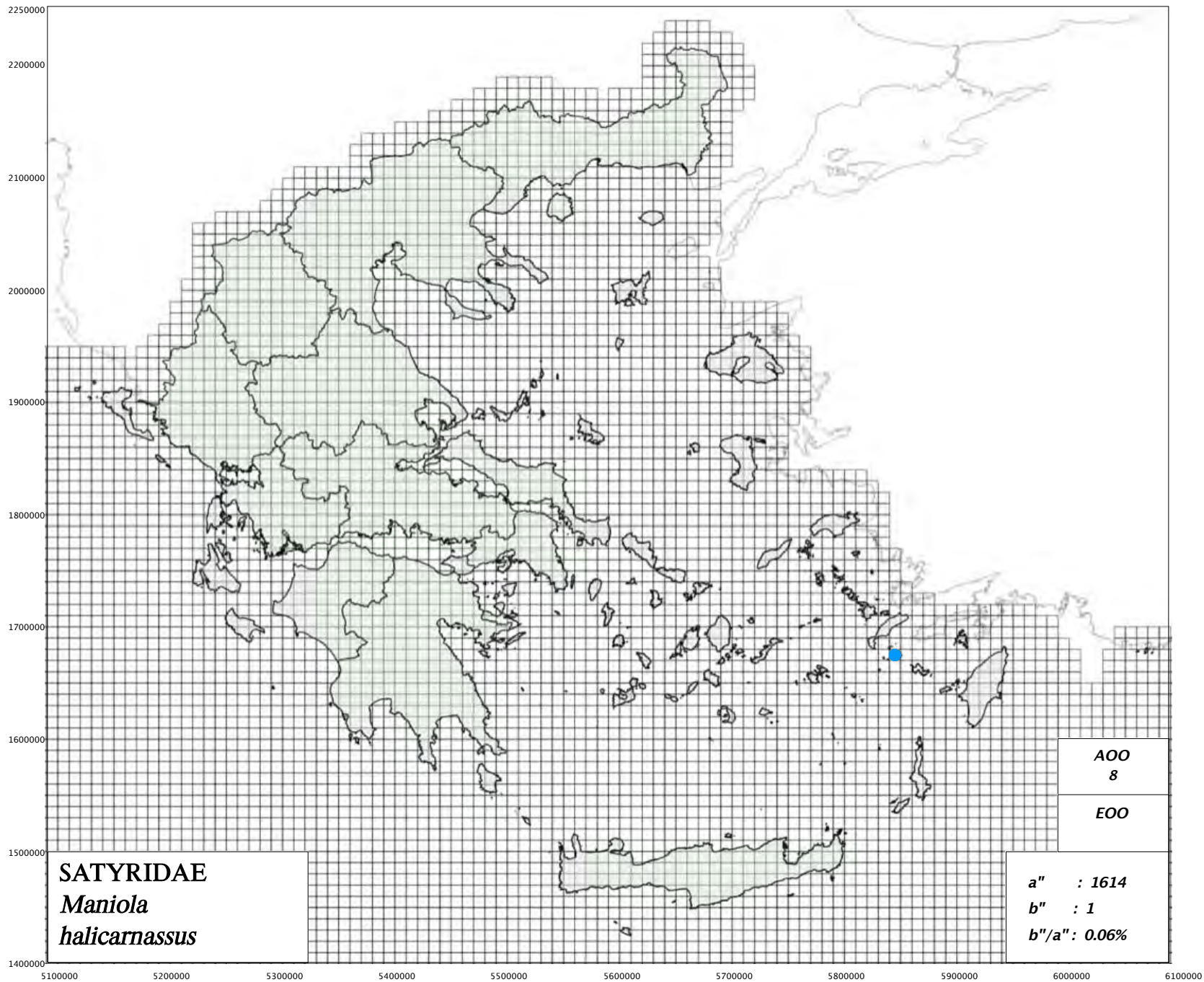




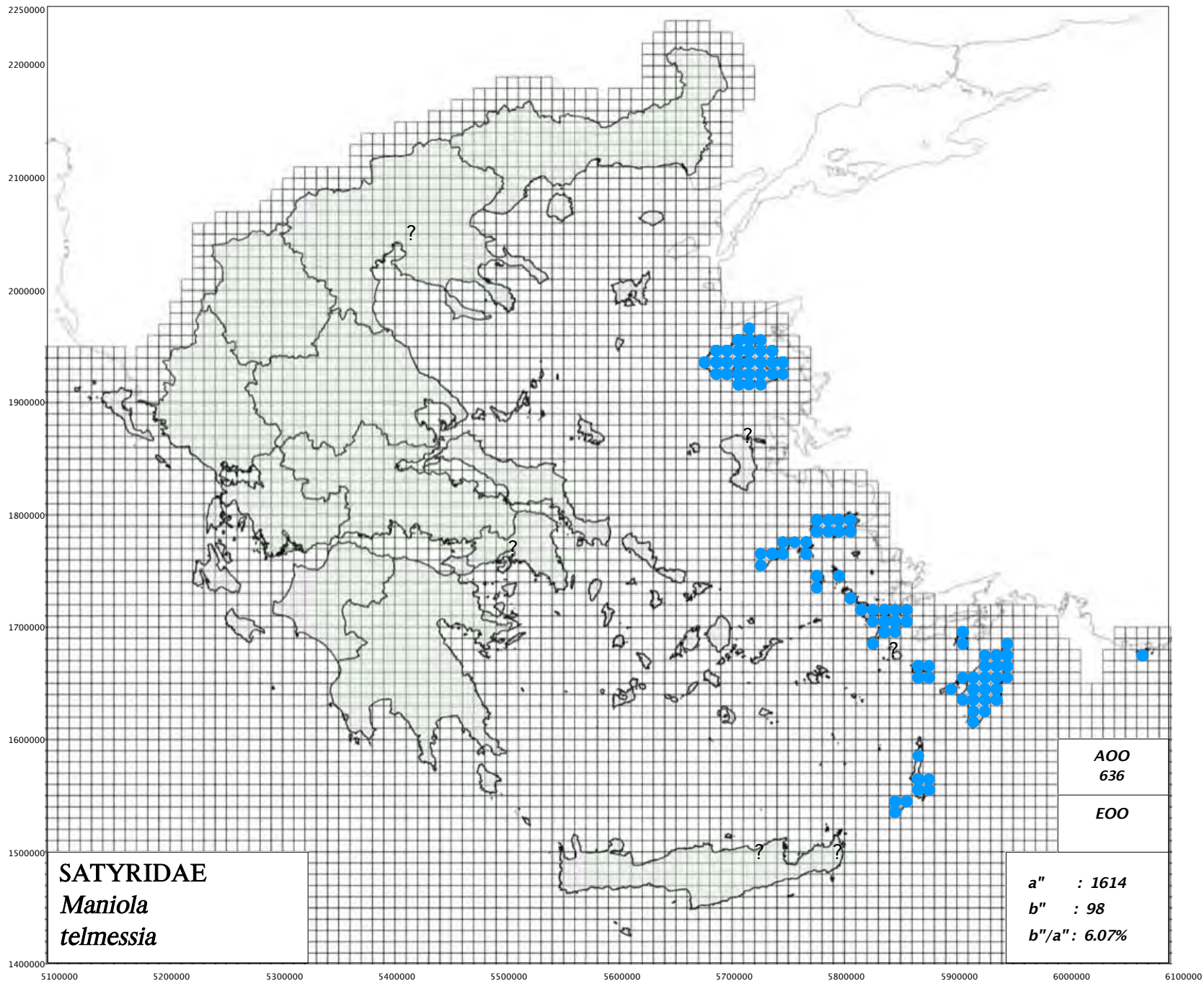




http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html

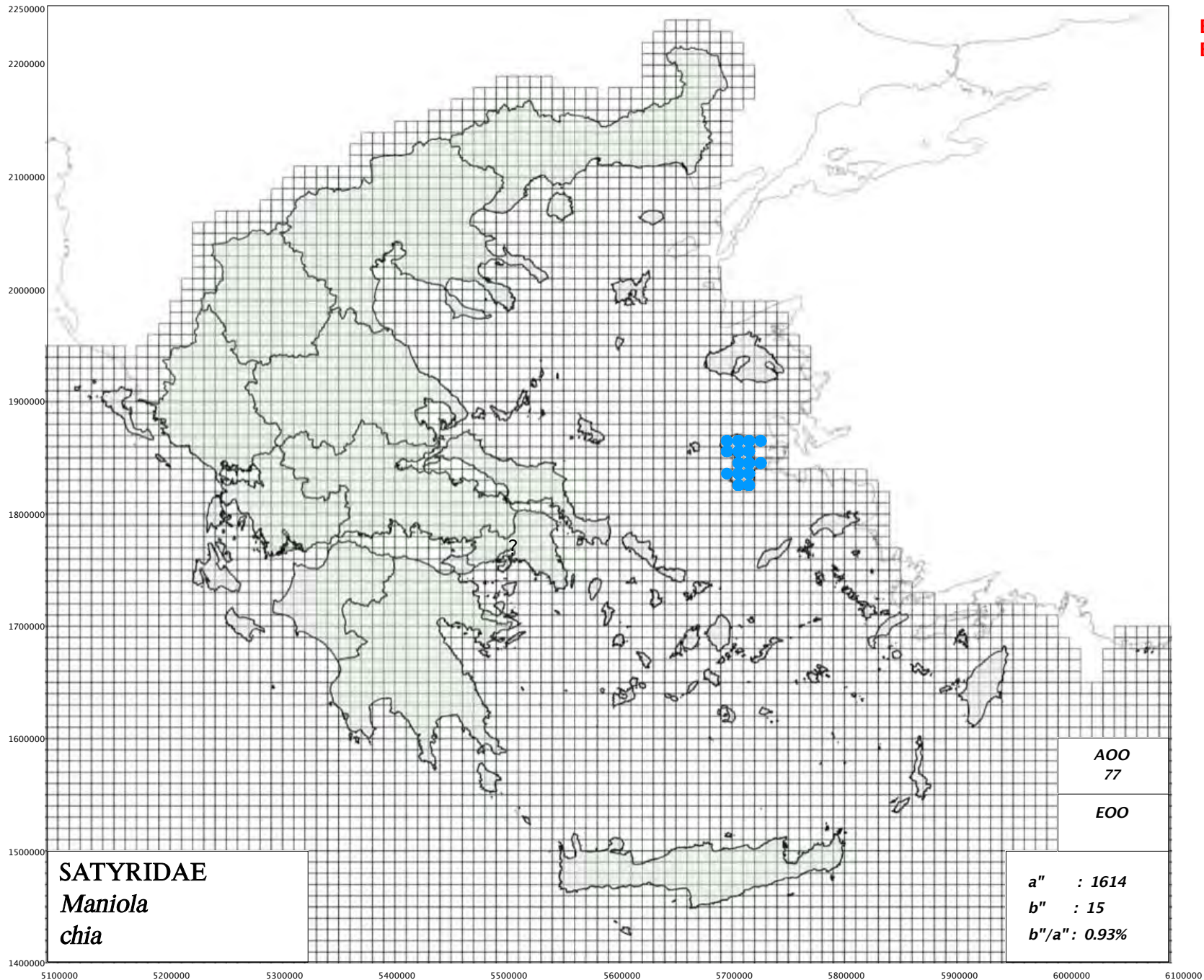


http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_halicarnassus_complex.html

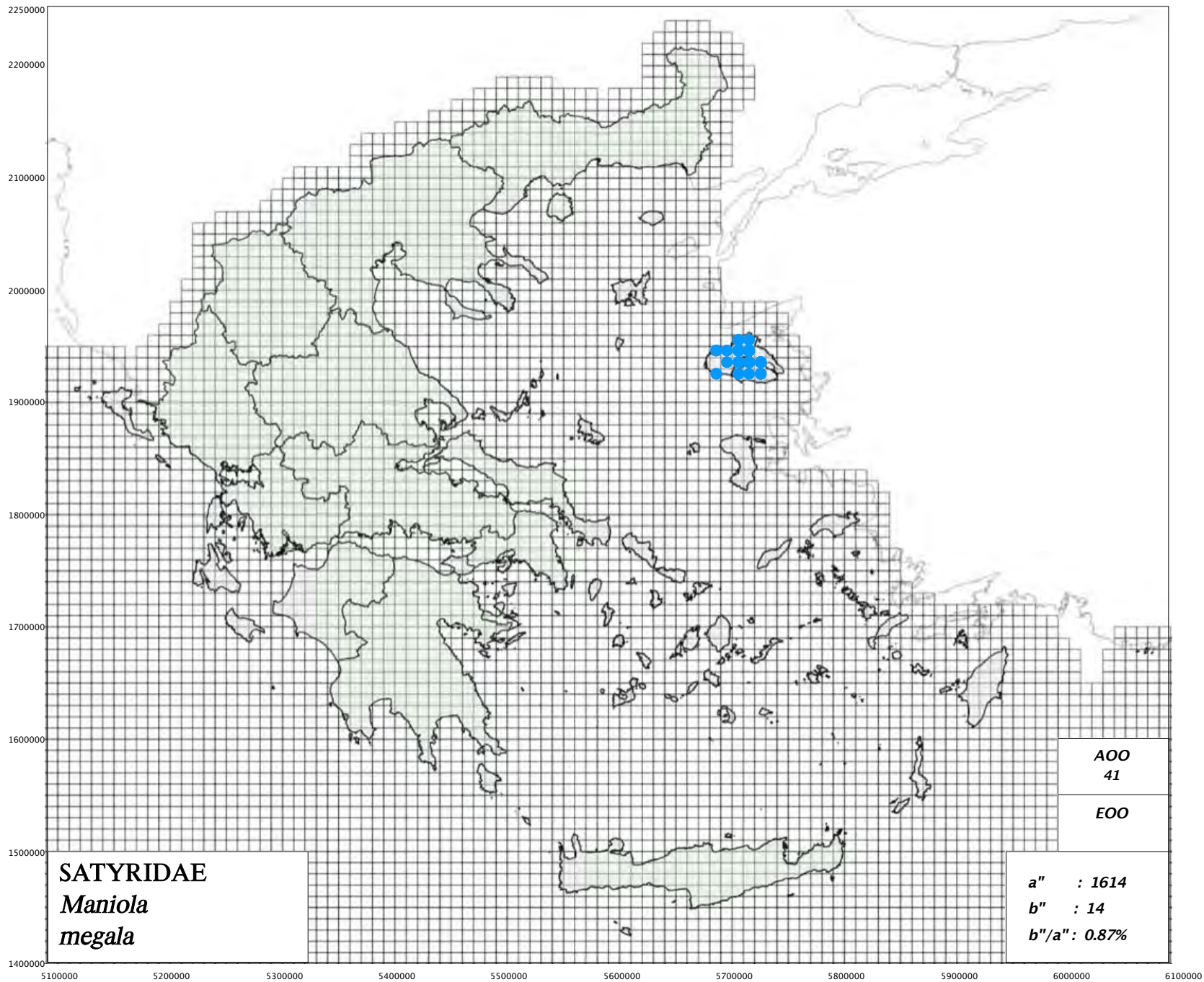


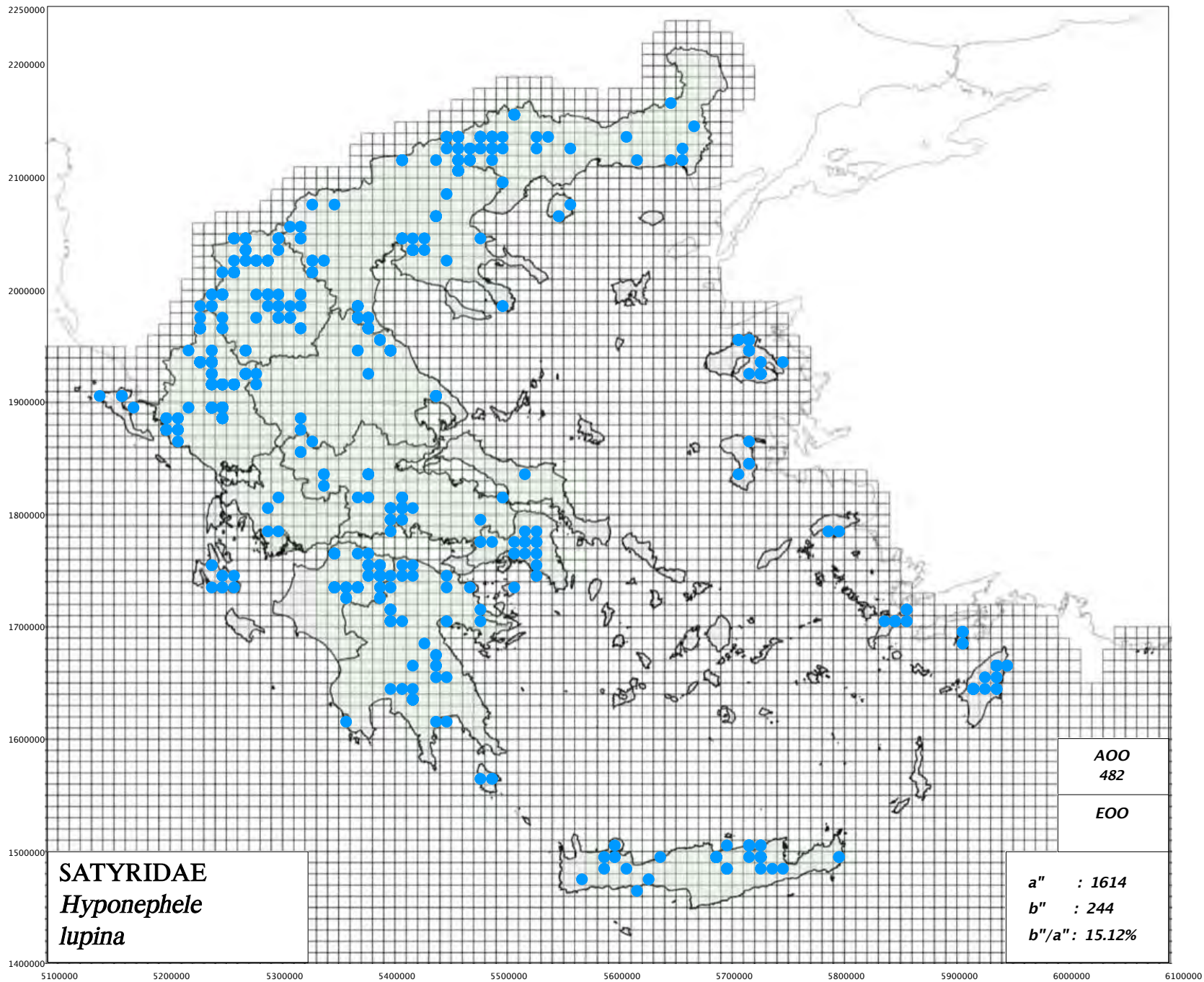
http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html

ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

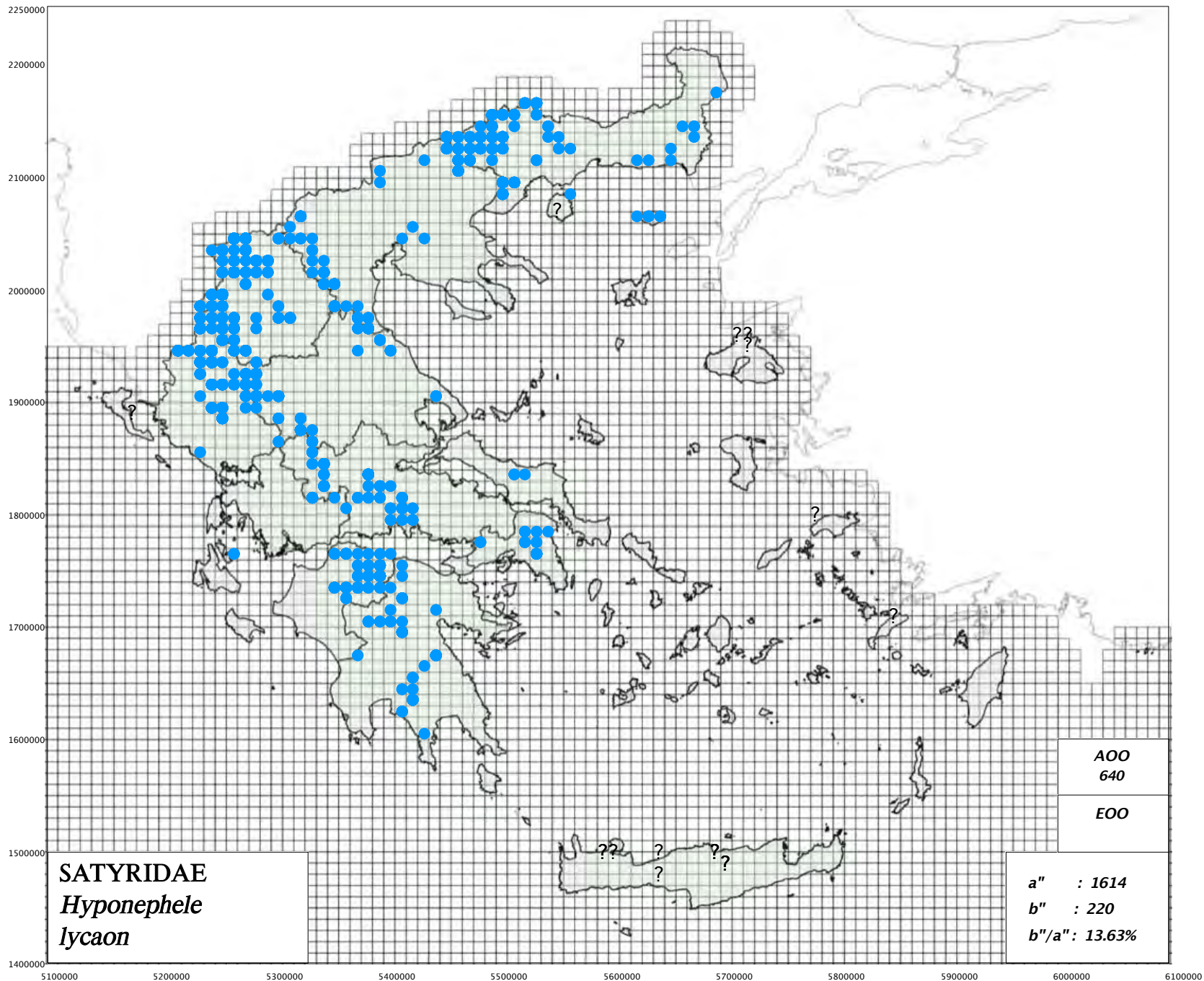


http://www.pamperis.gr/PHOTOGRAPHS/Maniola_telmessia_chia_hallicarnassus_complex.html

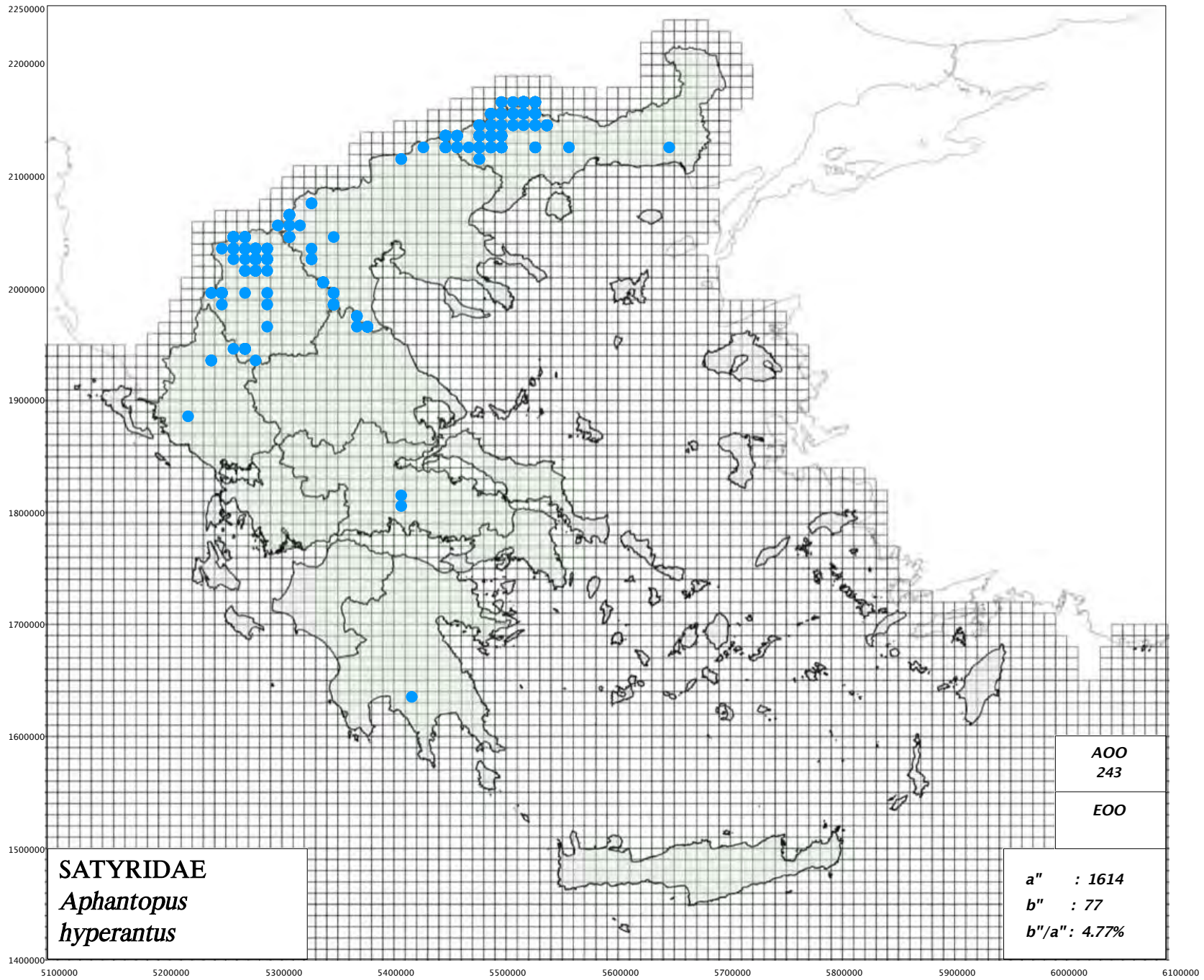


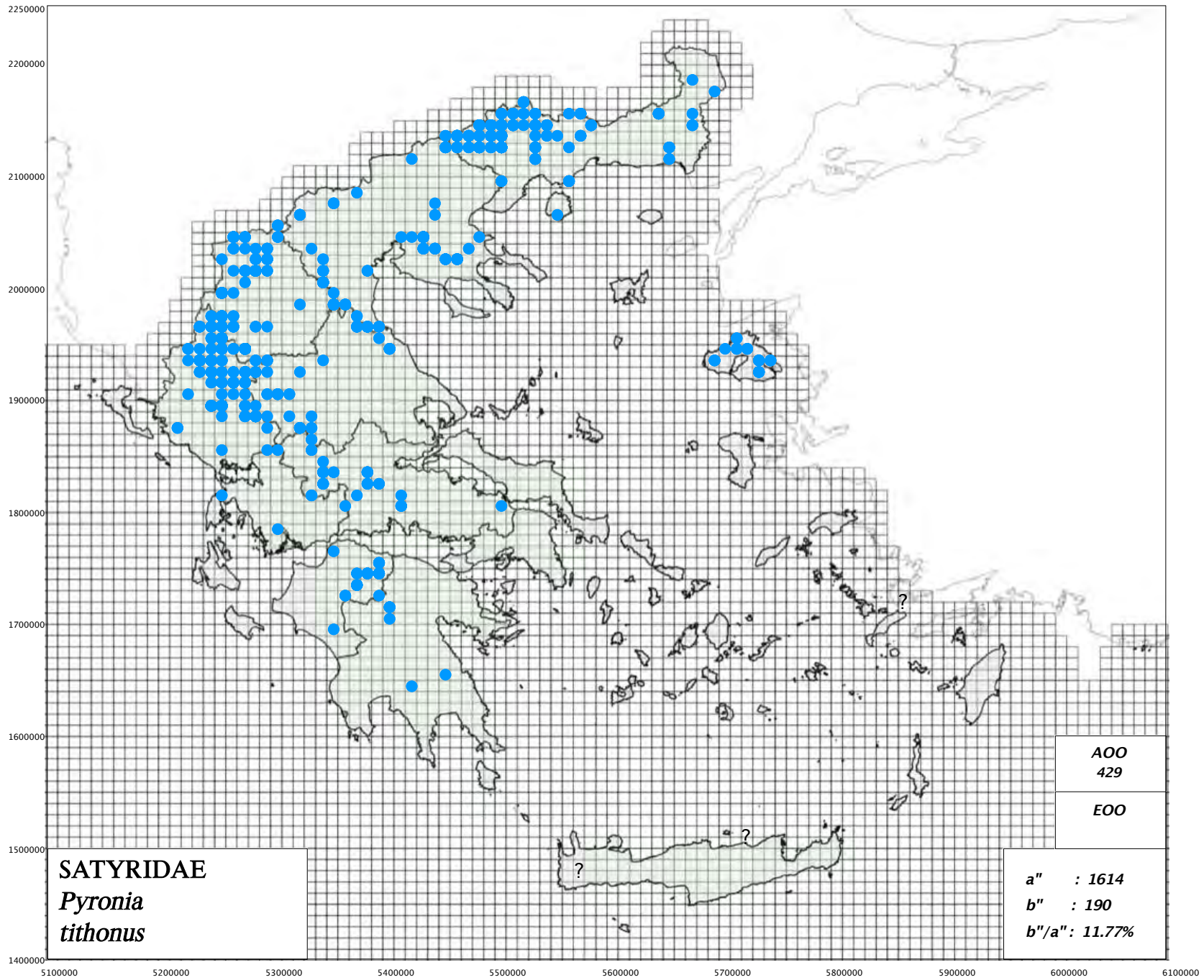


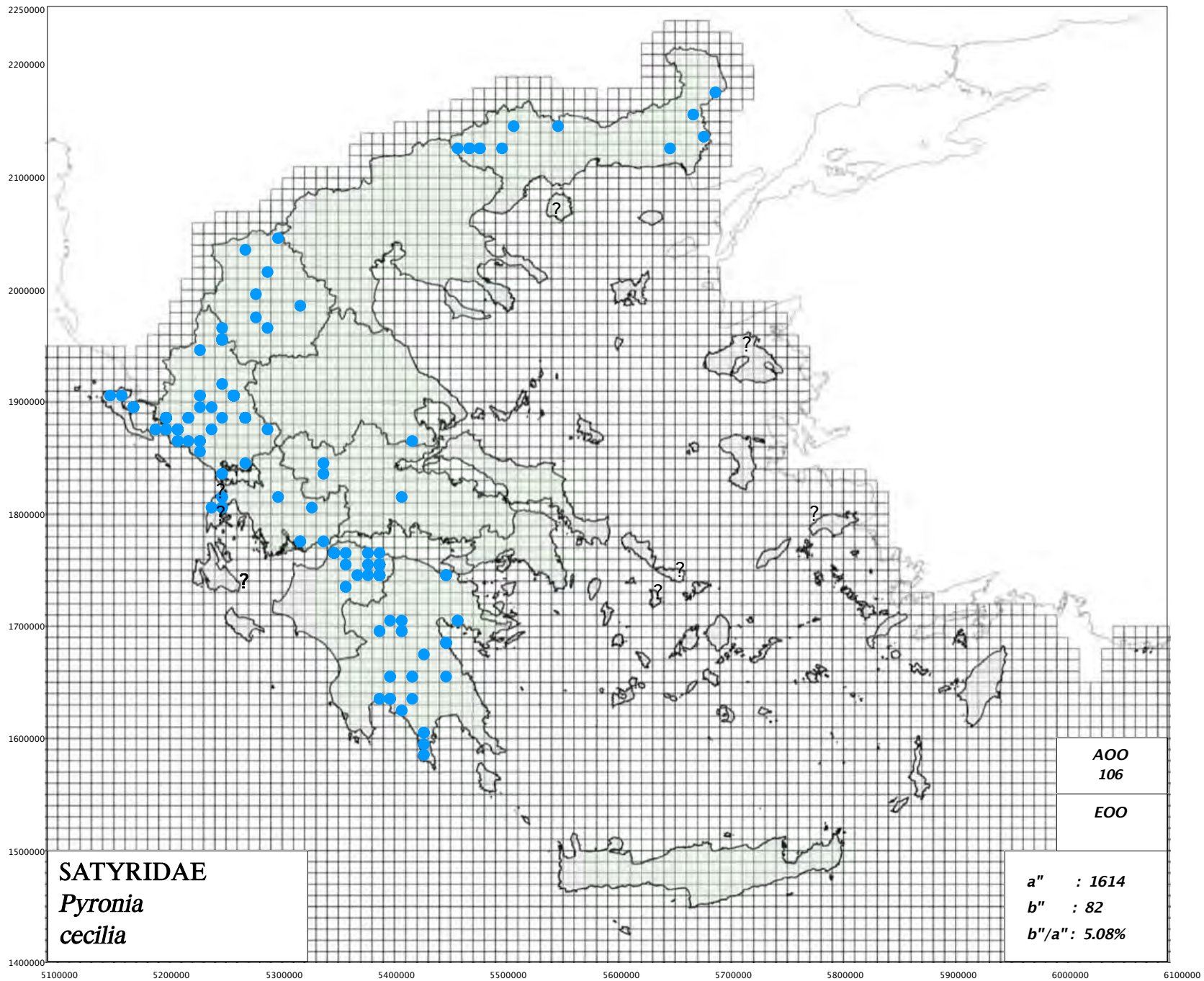
http://www.pamperis.gr/PHOTOGRAPHS/Hyponephele_lupina,_Hyponephele_lycaon.html



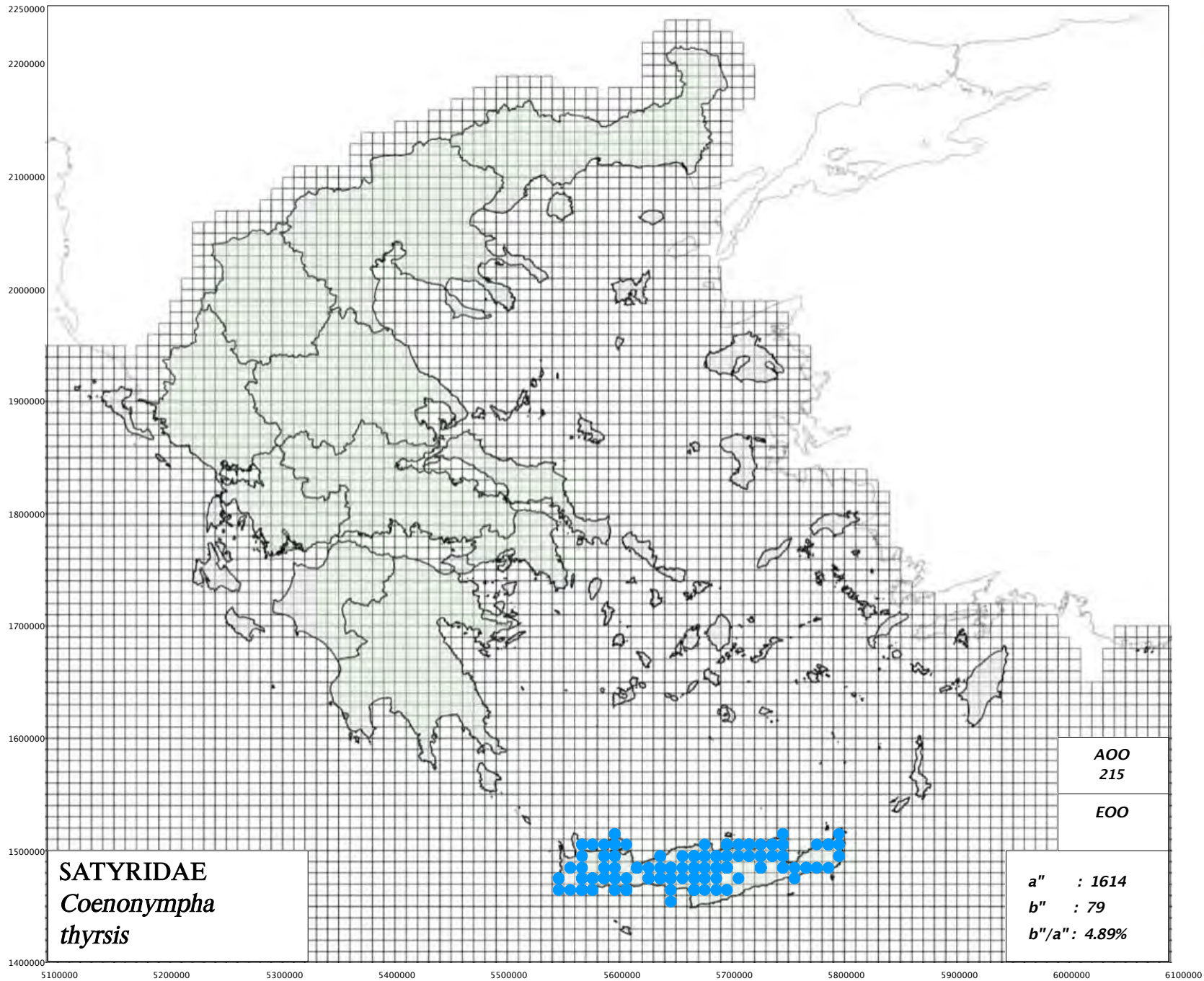
http://www.pamperis.gr/PHOTOGRAPHS/Hyponephele_lupina,_Hyponephele_lycaon.html

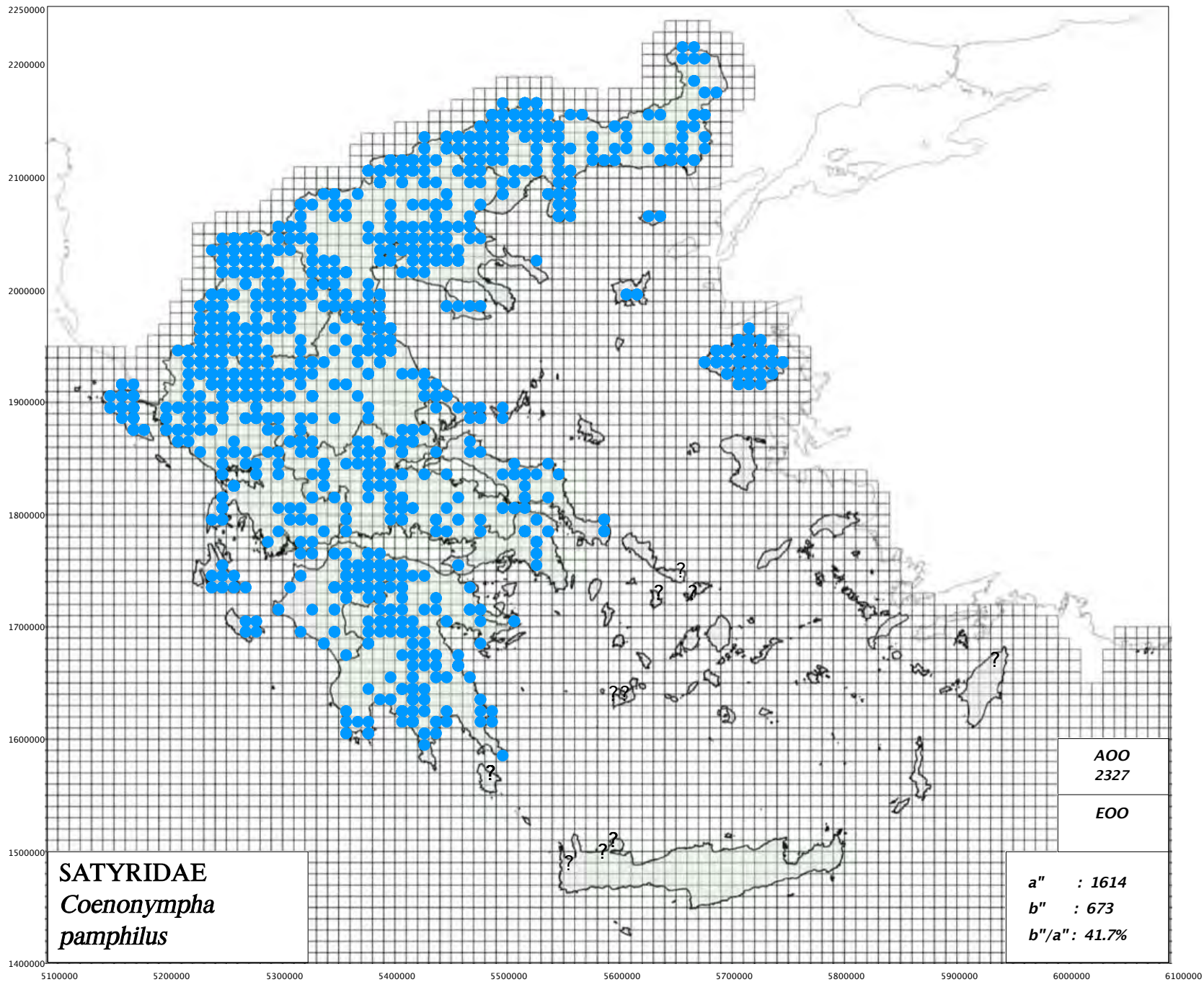


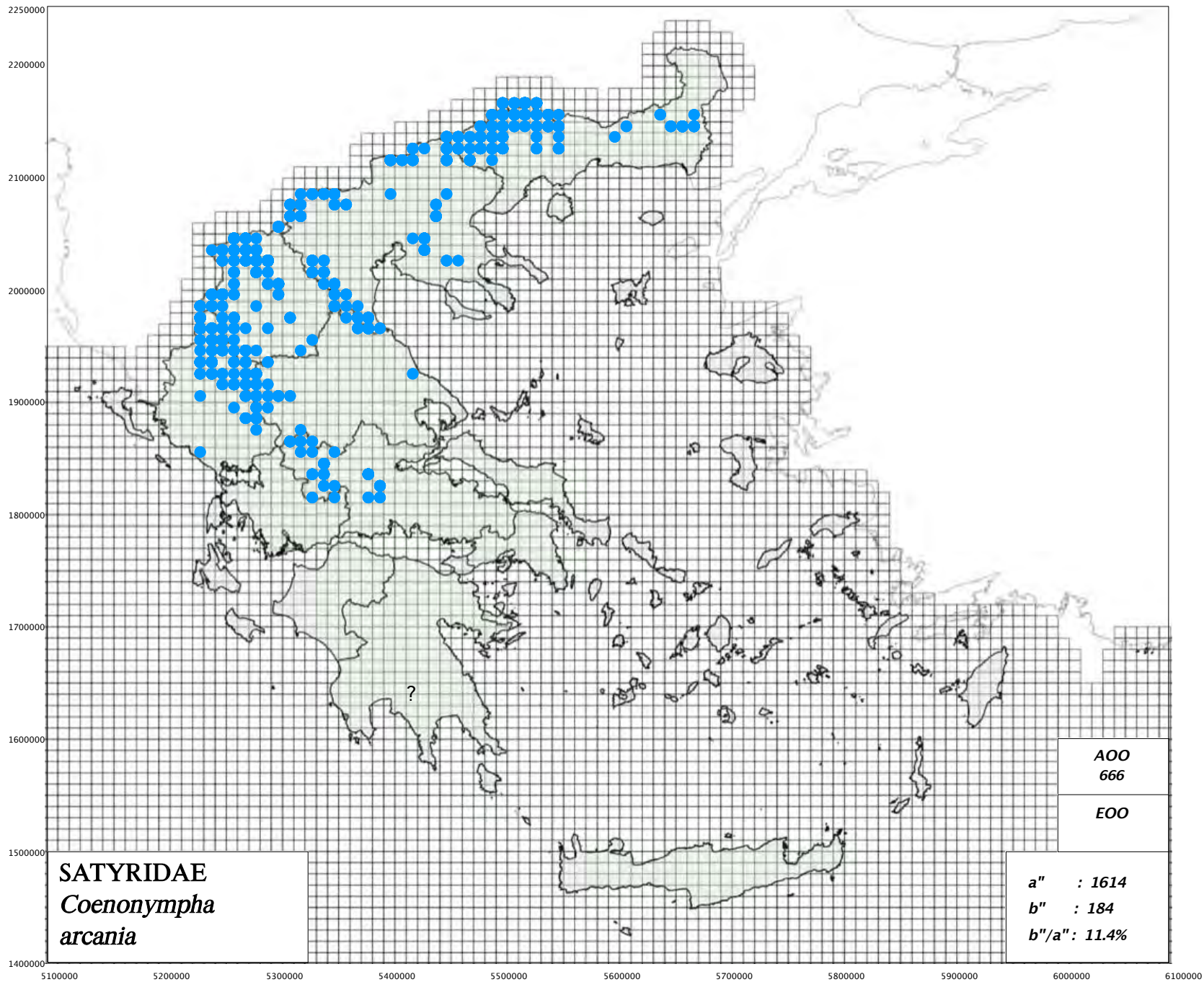


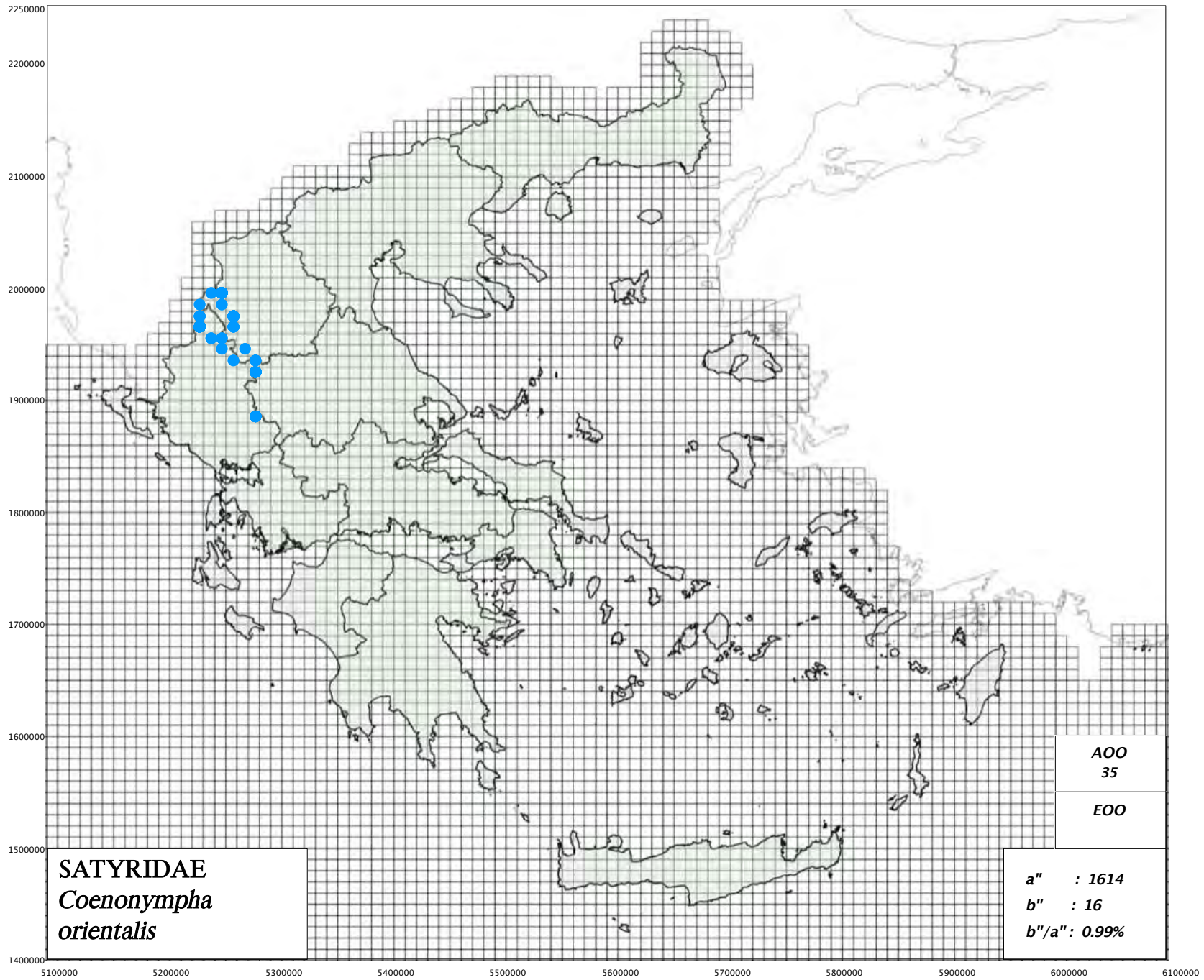


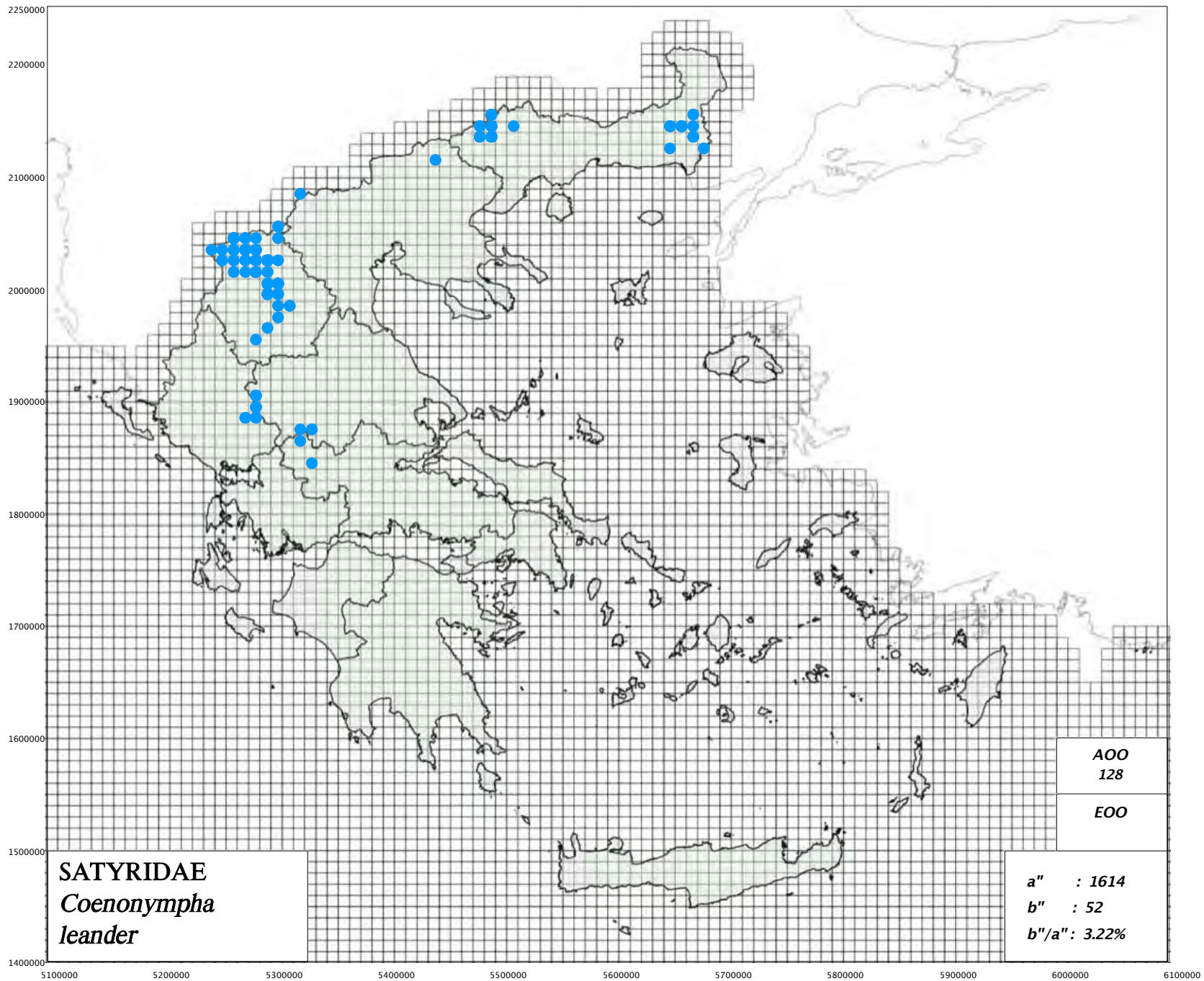
ΕΝΔΗΜΙΚΟ ΕΙΔΟΣ ΤΗΣ ΕΛΛΑΔΑΣ
ENDEMIC SPECIES OF GREECE

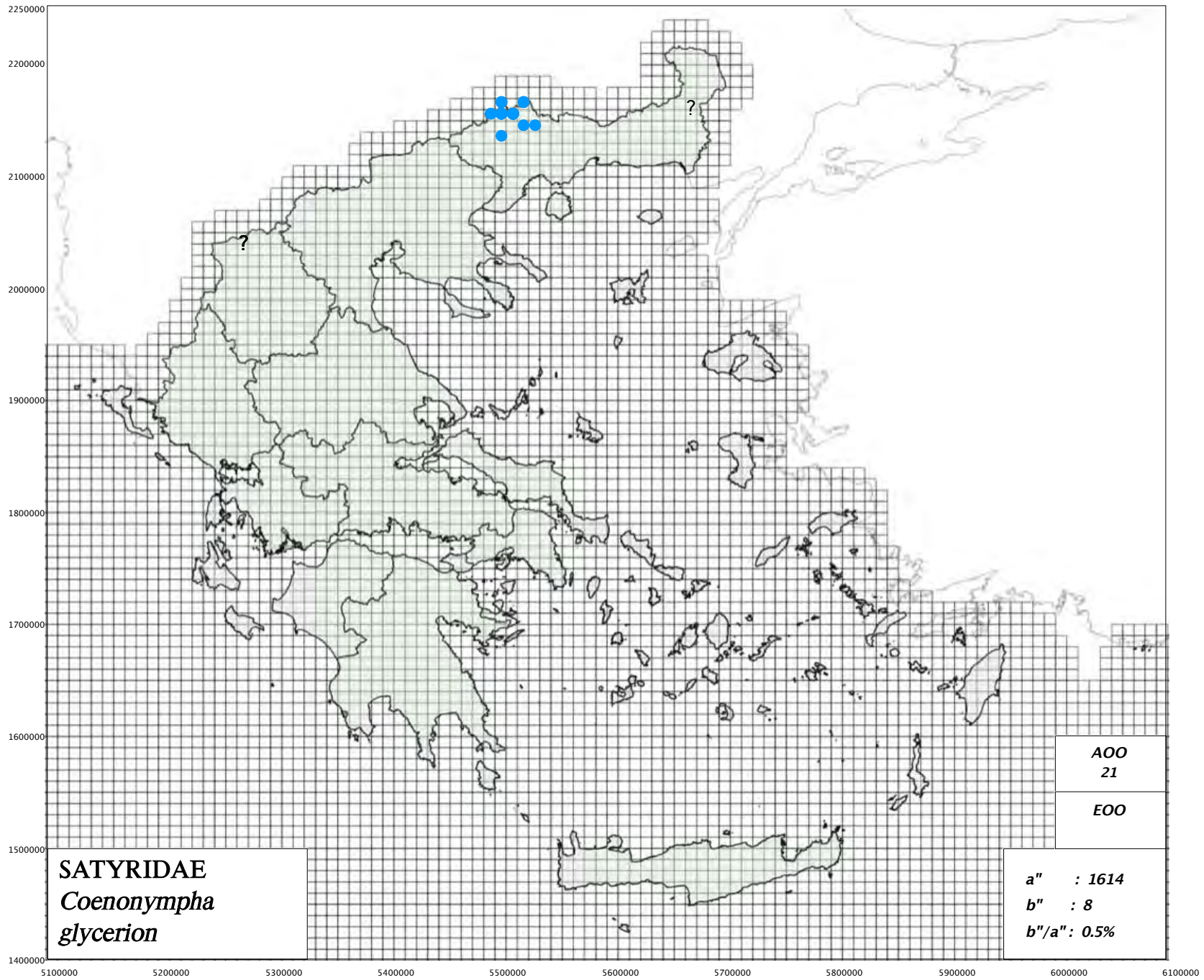


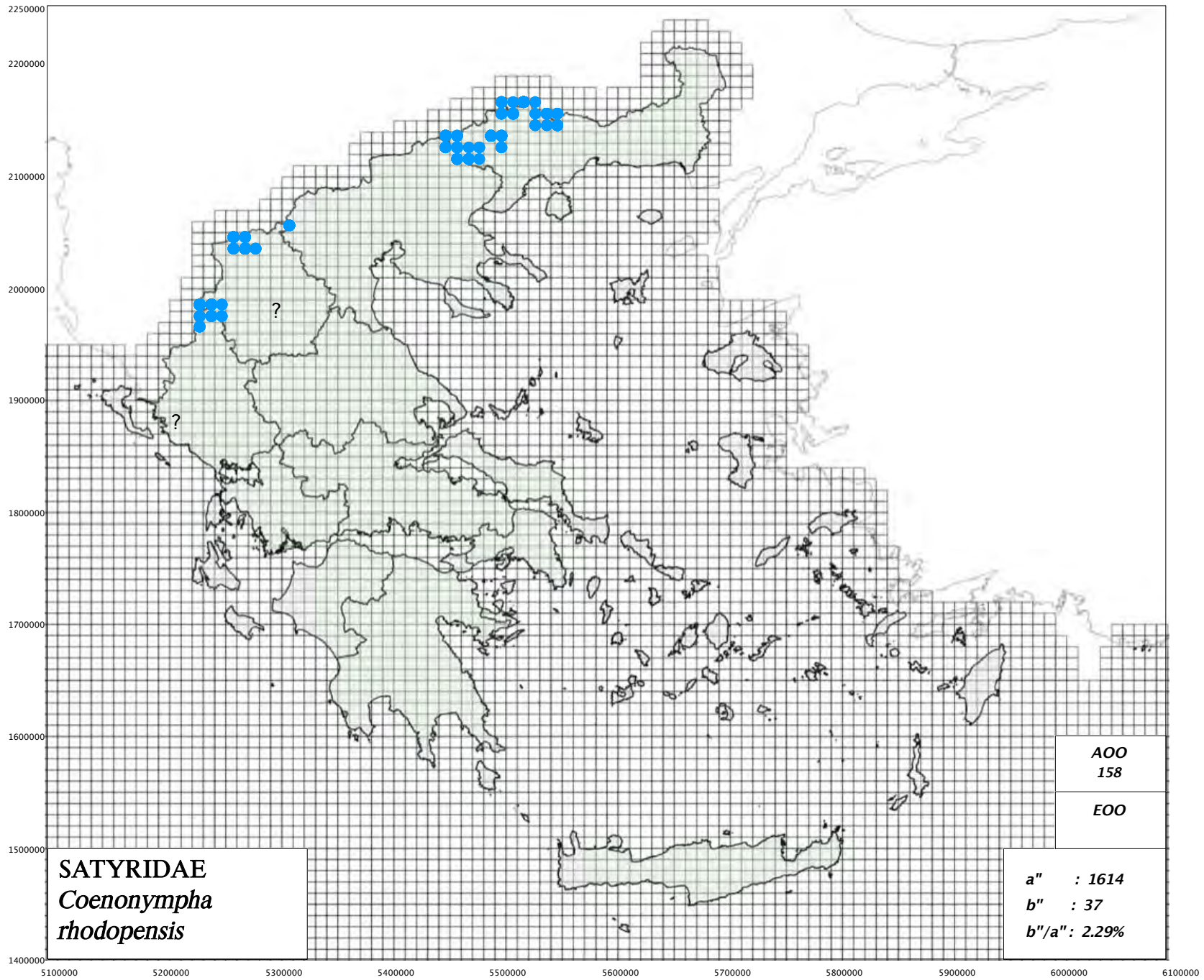


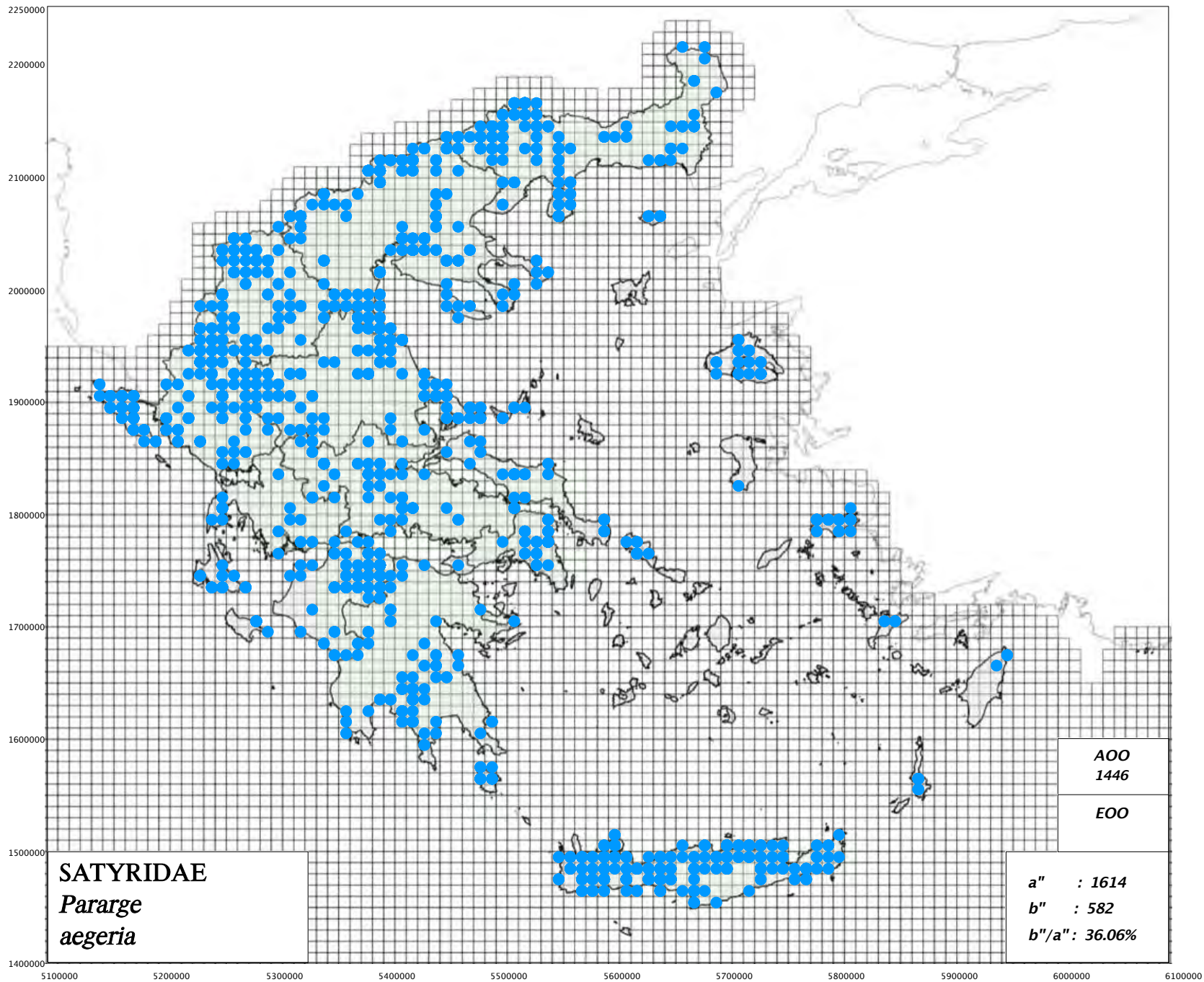


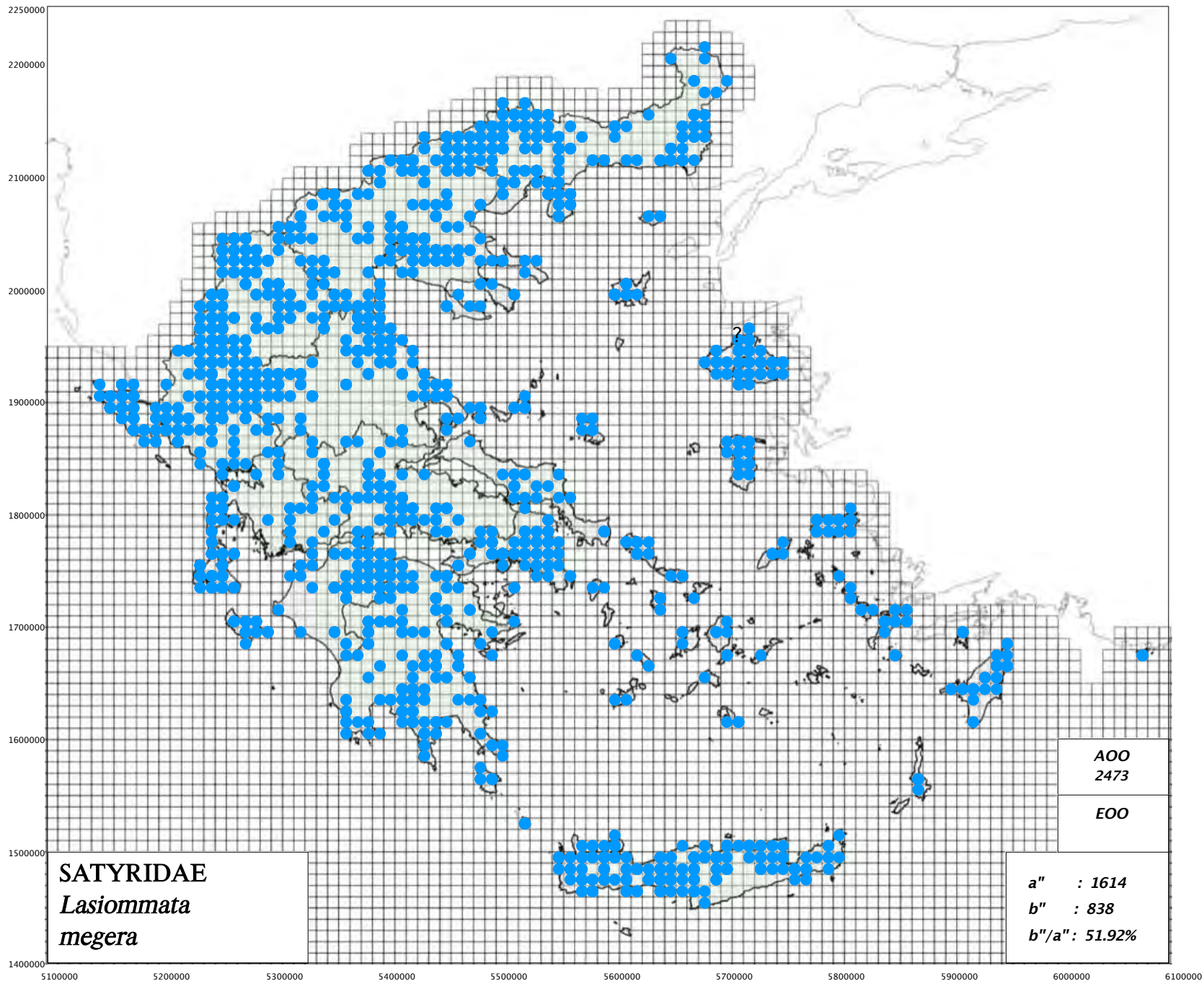




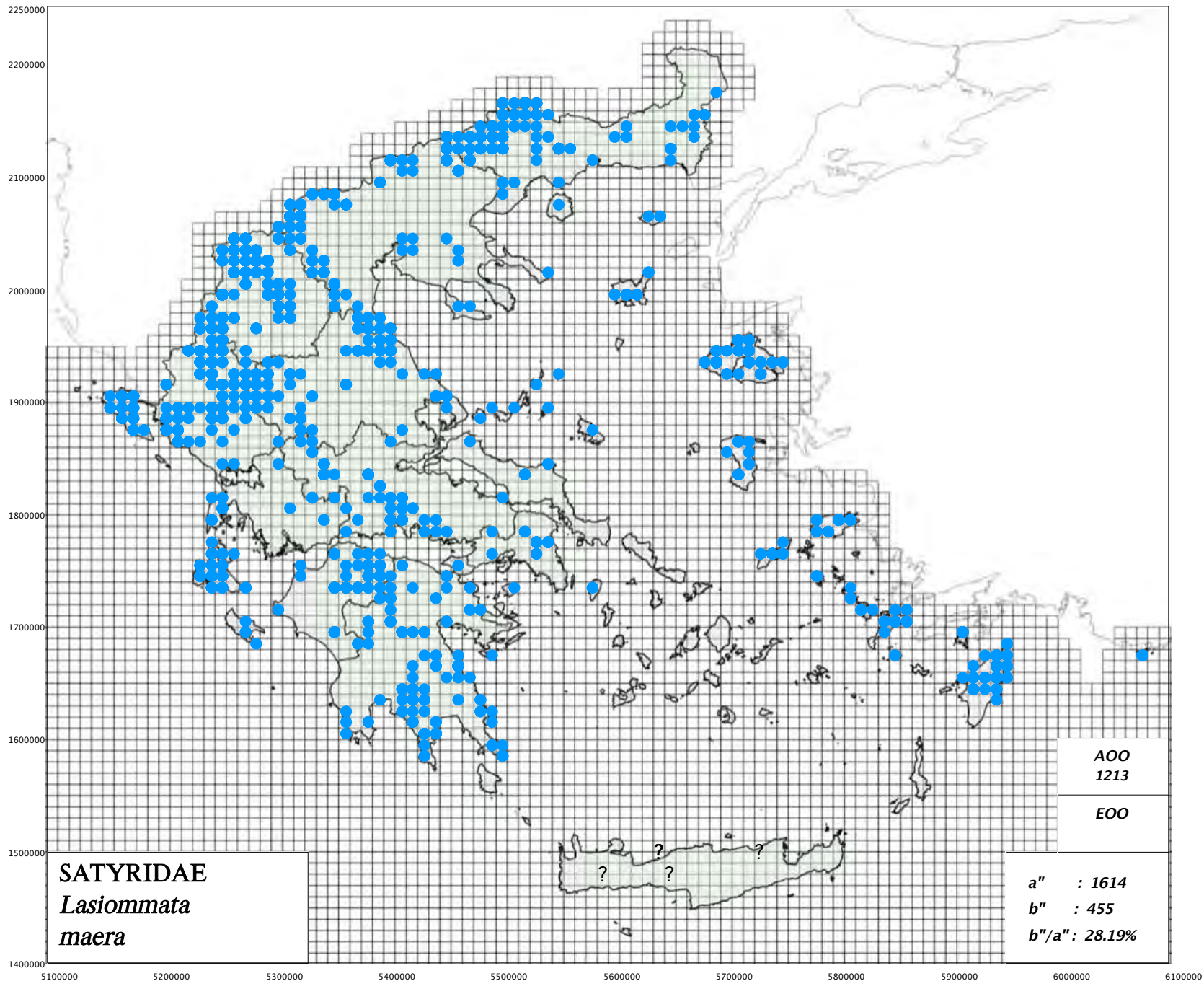




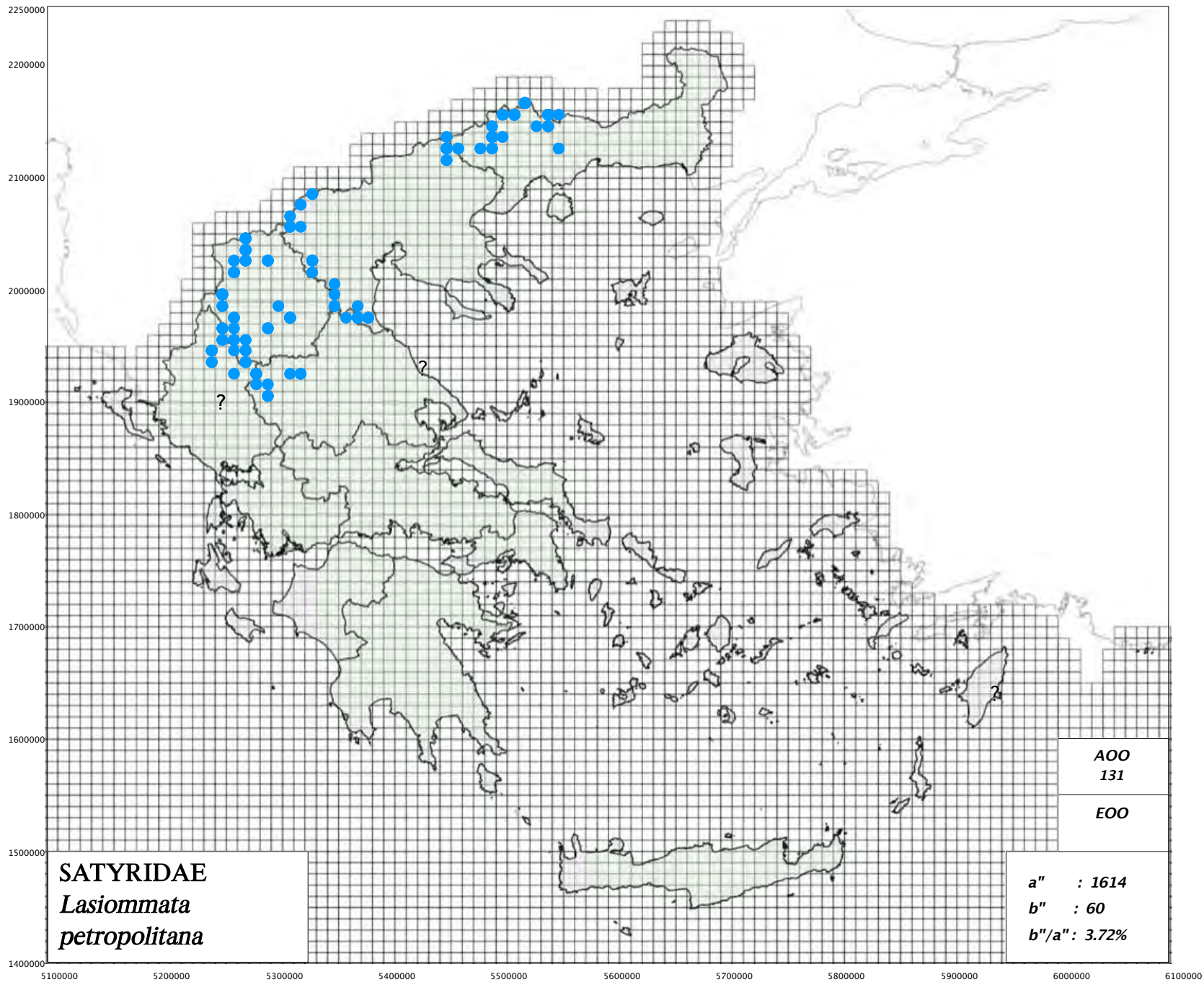




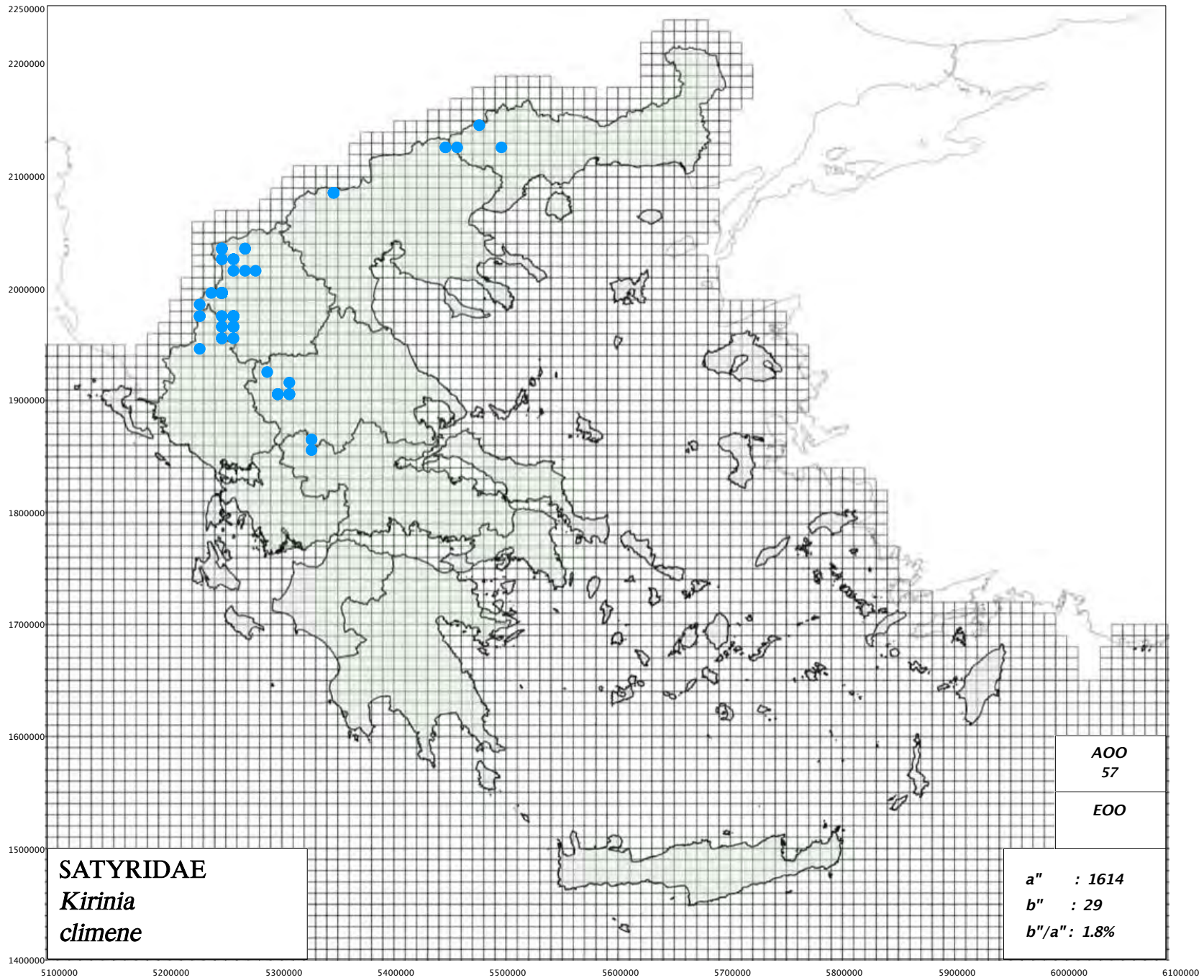
http://www.pamperis.gr/PHOTOGRAPHS/Lasiommata_maera,_Lasiommata_megera,_Lasiommata_petropolitana.html

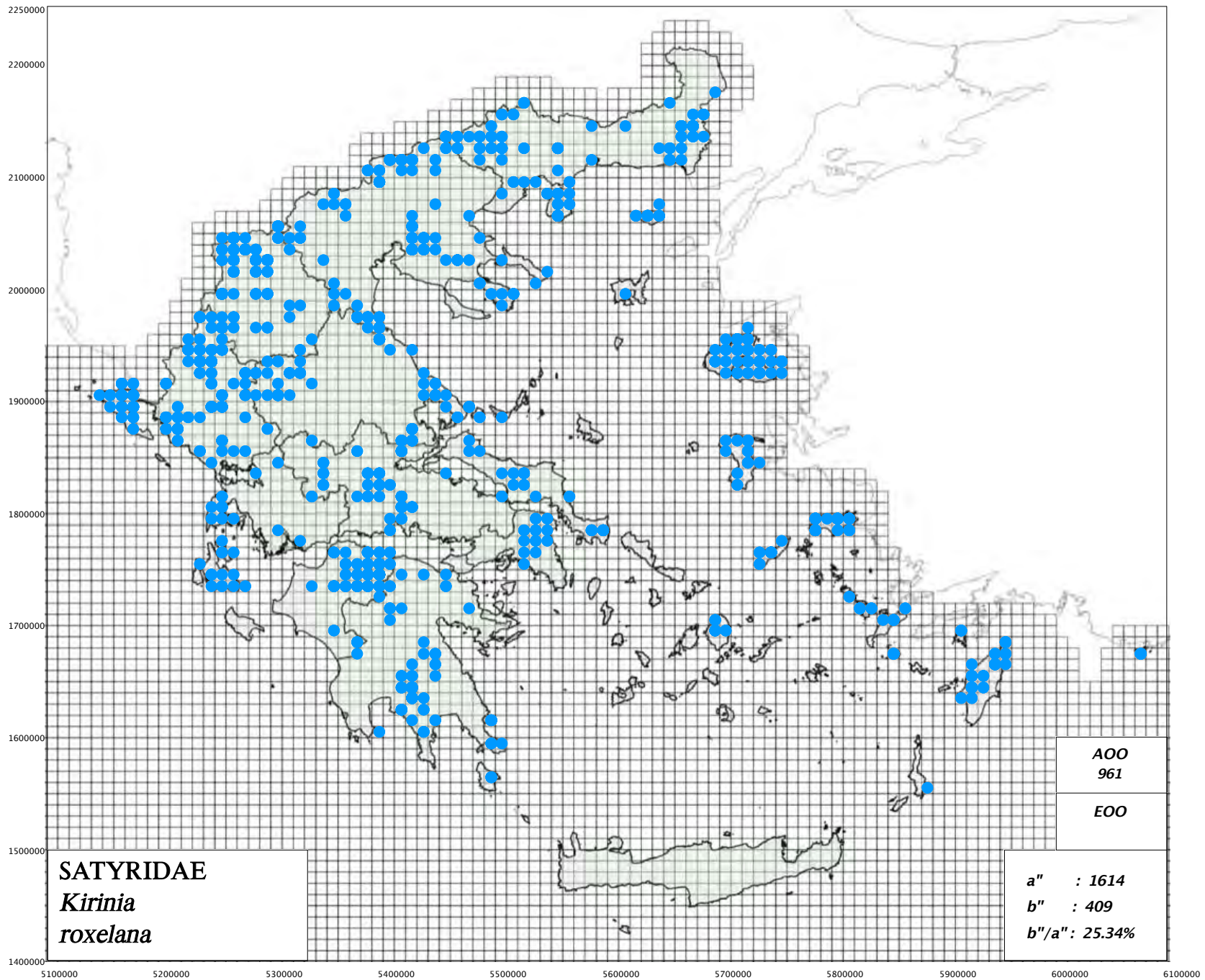


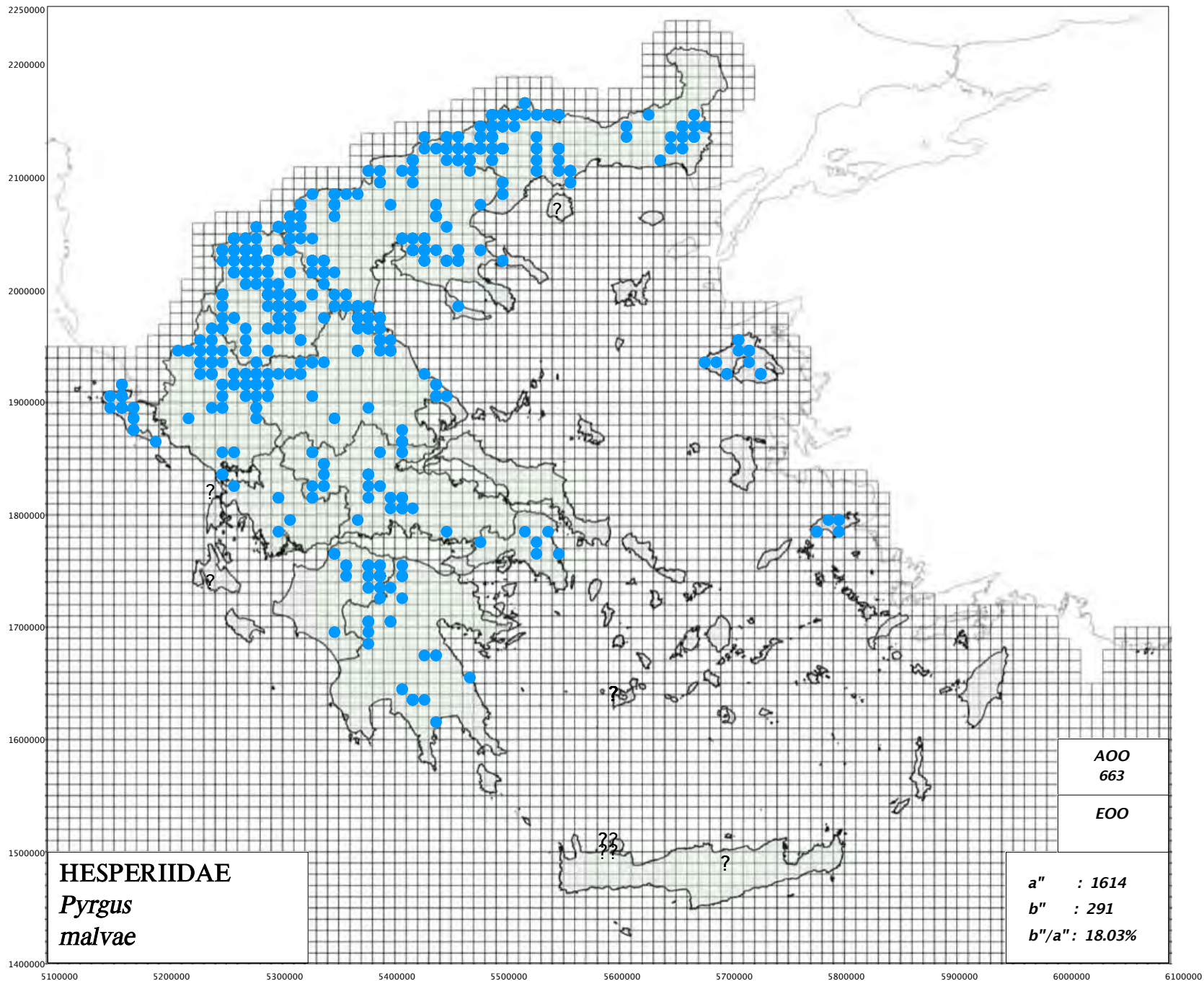
http://www.pamperis.gr/PHOTOGRAPHS/Lasiommata_maera,_Lasiommata_megera,_Lasiommata_petropolitana.html



http://www.pamperis.gr/PHOTOGRAPHS/Lasiommata_maera,_Lasiommata_megera,_Lasiommata_petropolitana.html

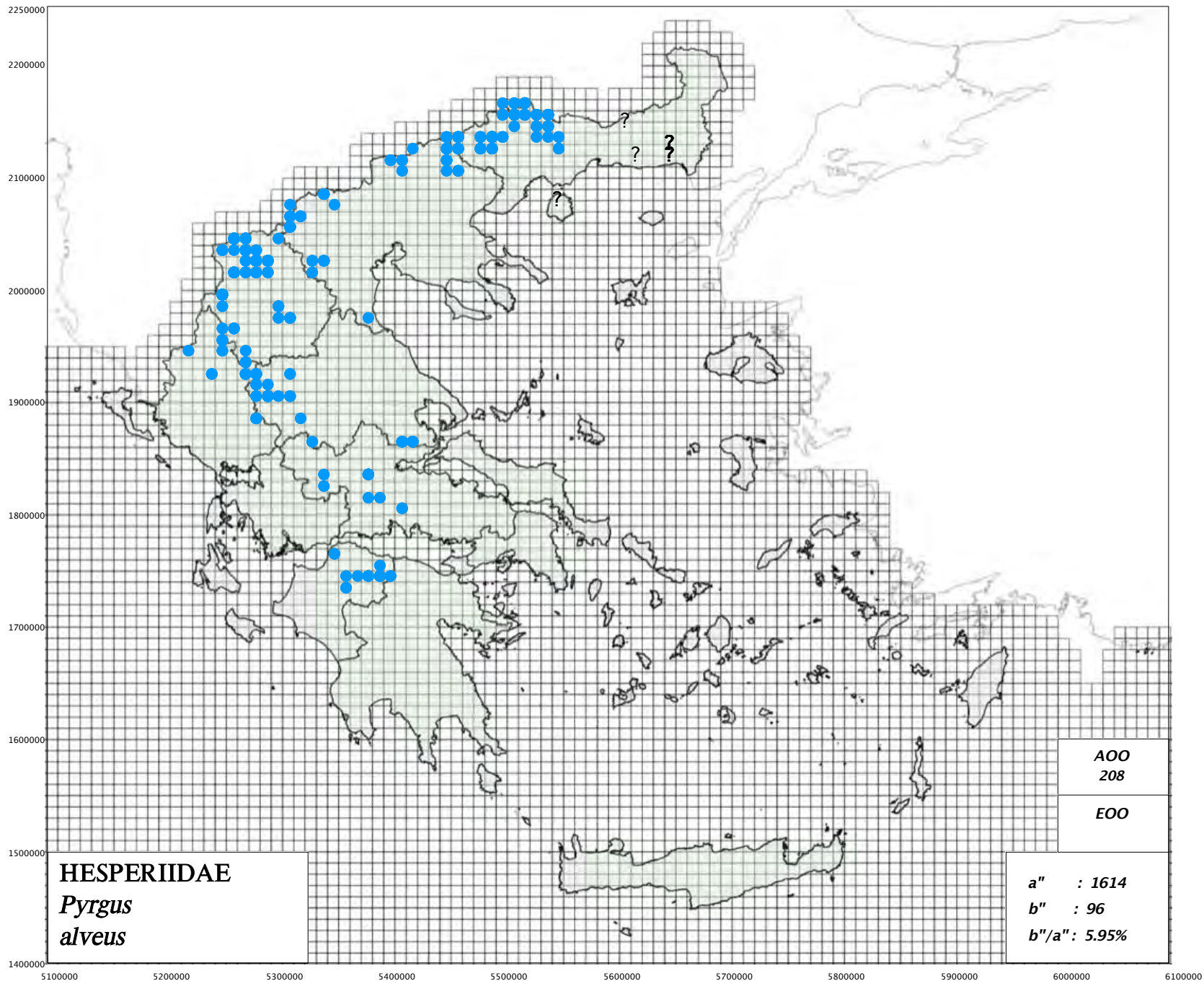






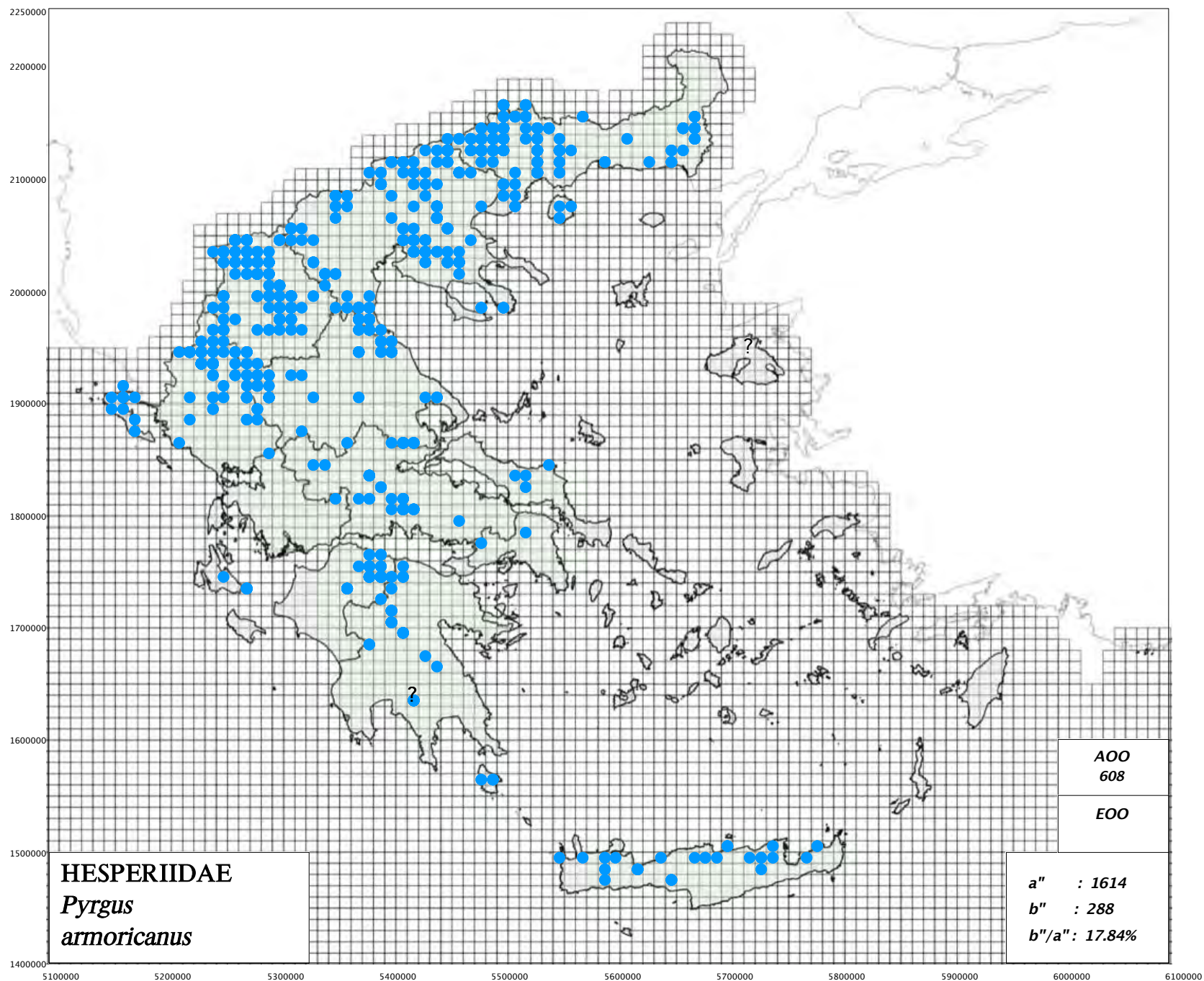
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>

Αμφίβολη αναγνώριση /
Identification Uncertain



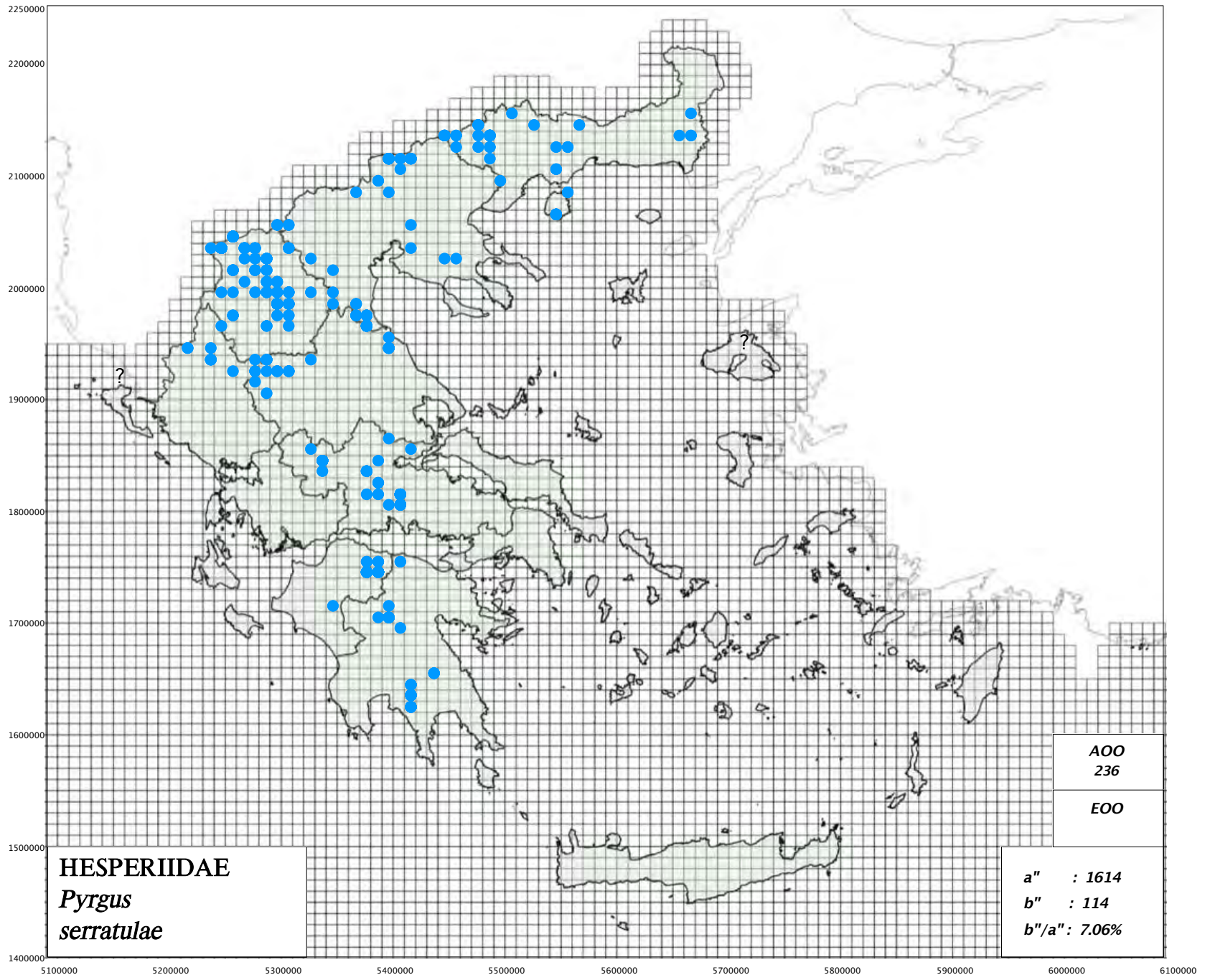
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>

Αμφίβολη αναγνώριση /
Identification Uncertain

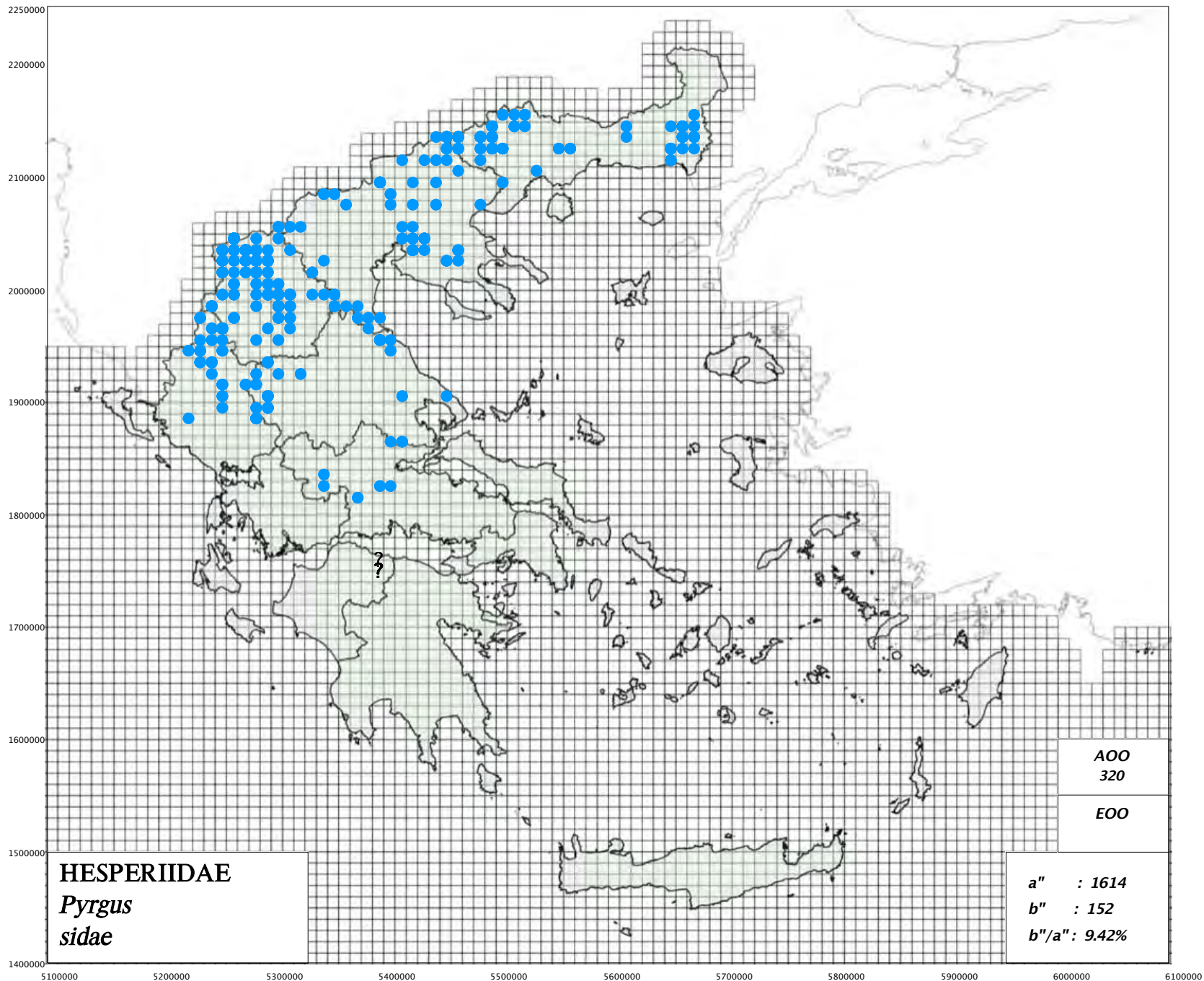


<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>

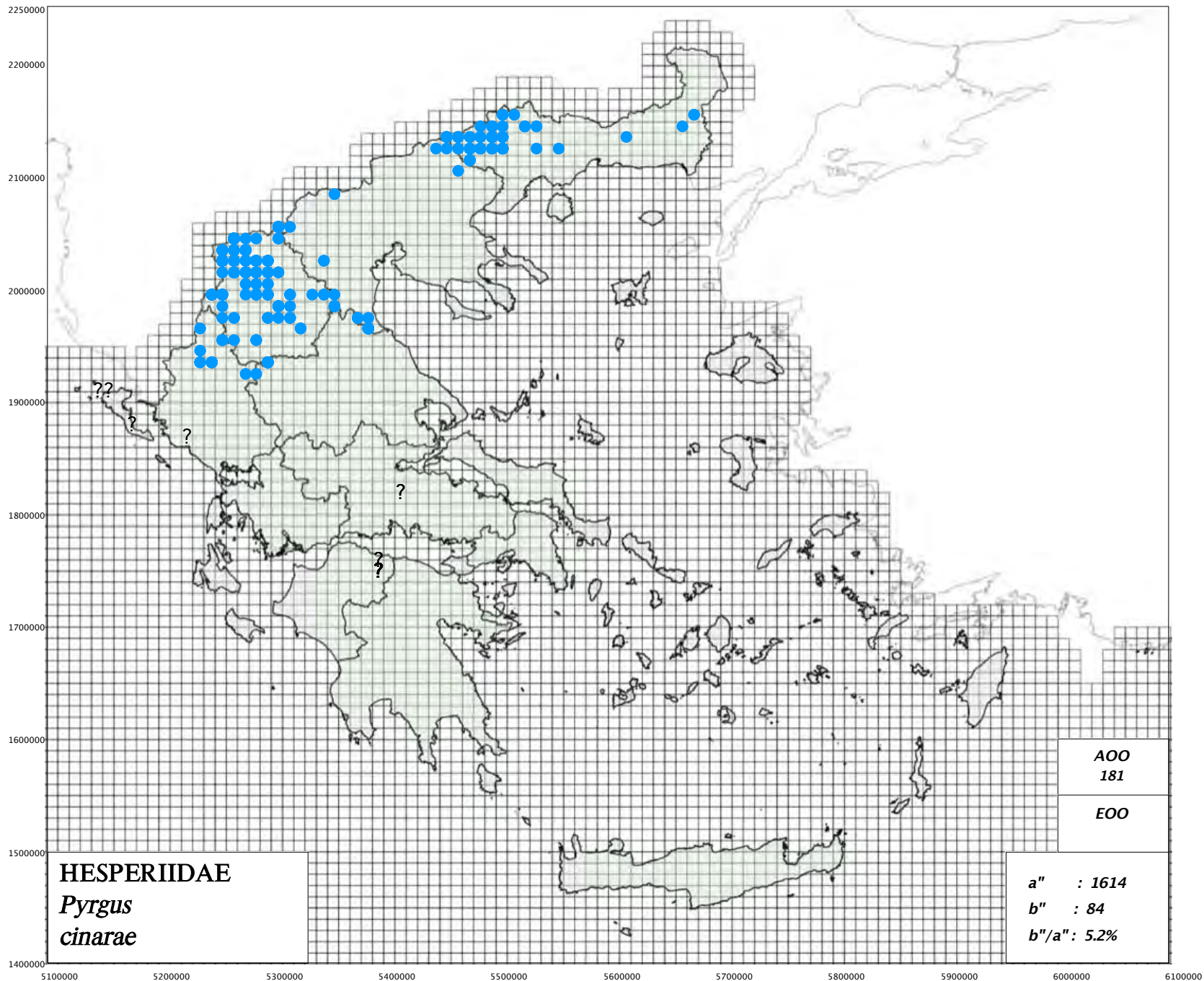
Αμφίβολη αναγνώριση /
Identification Uncertain



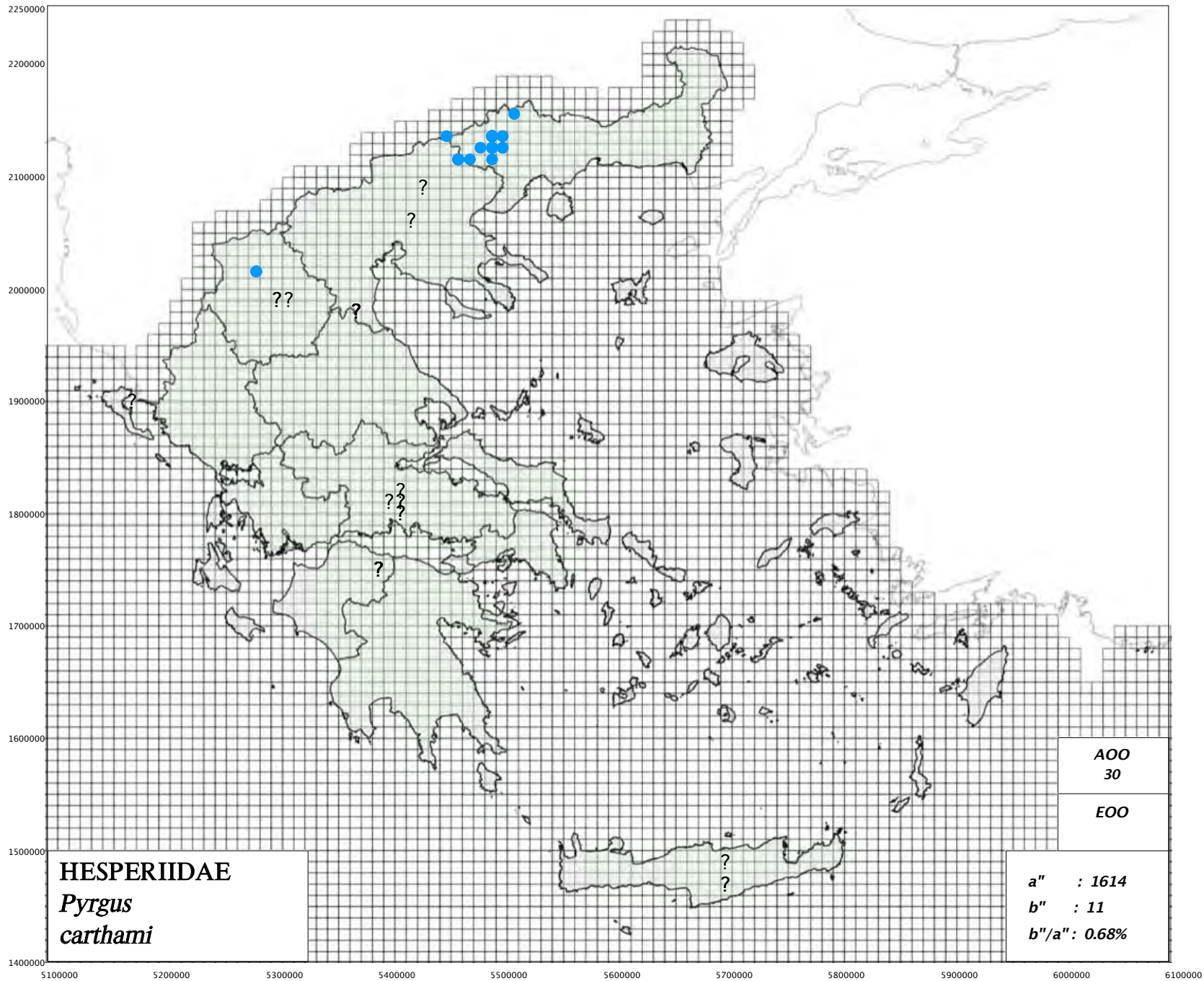
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>



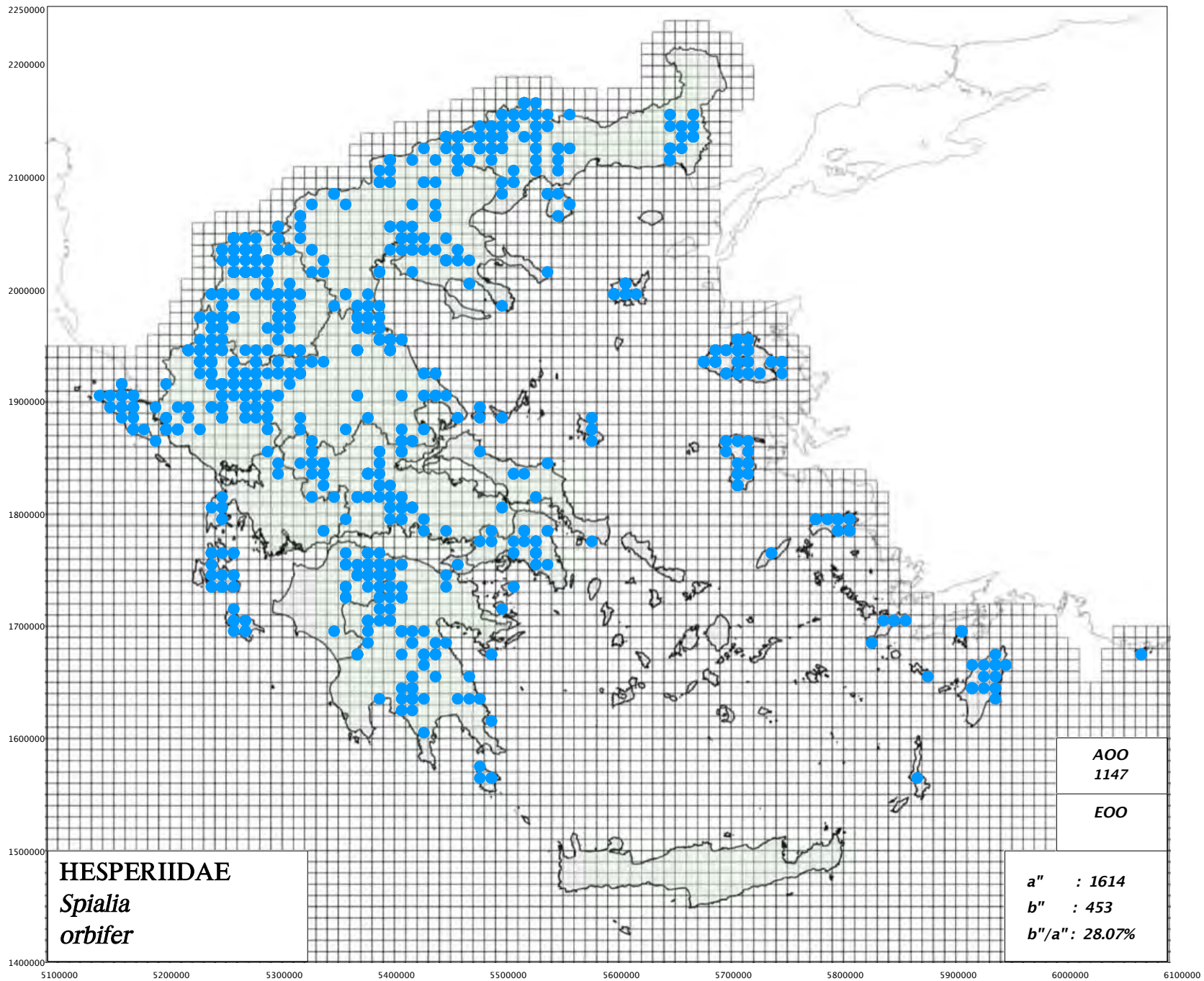
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>

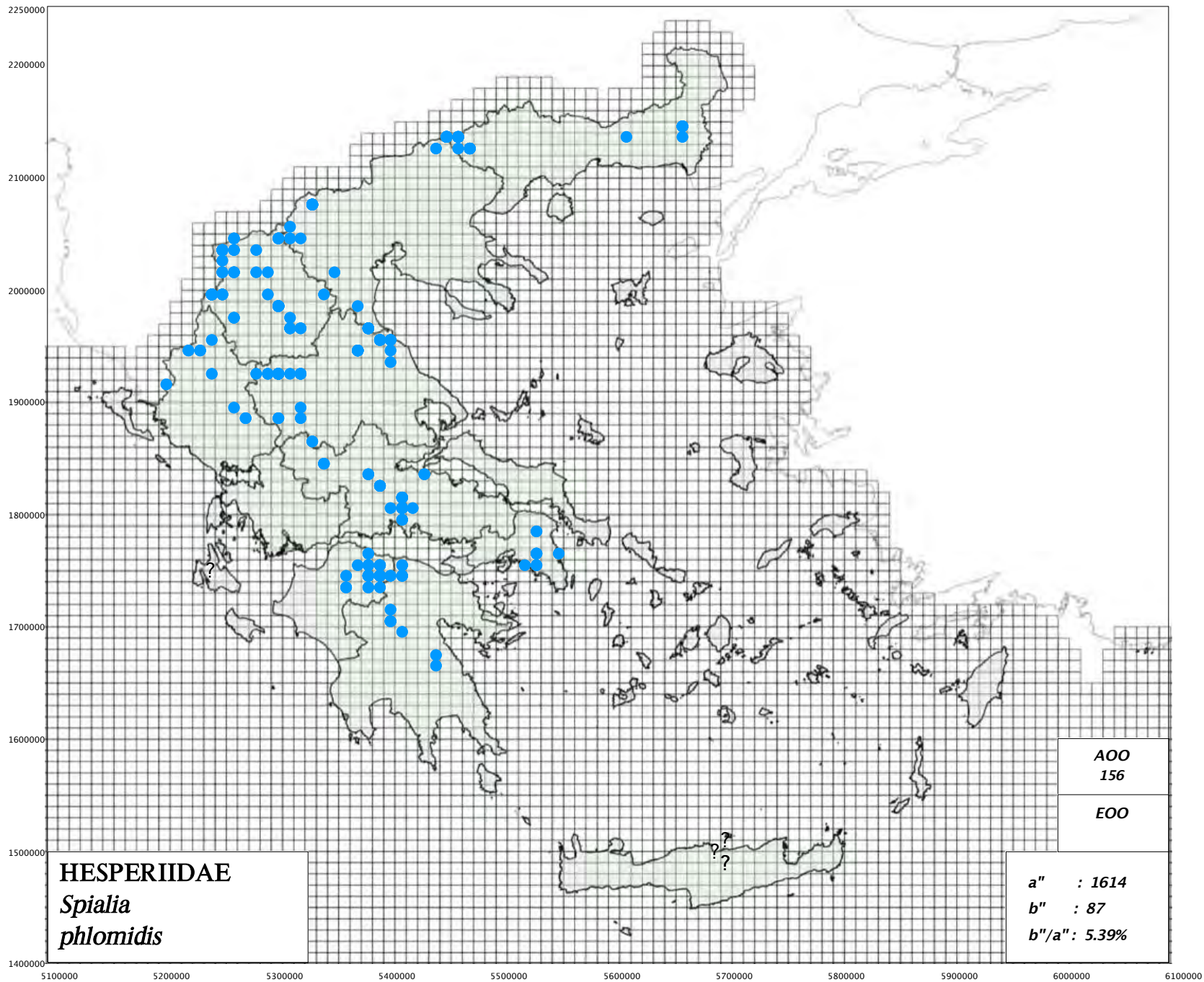


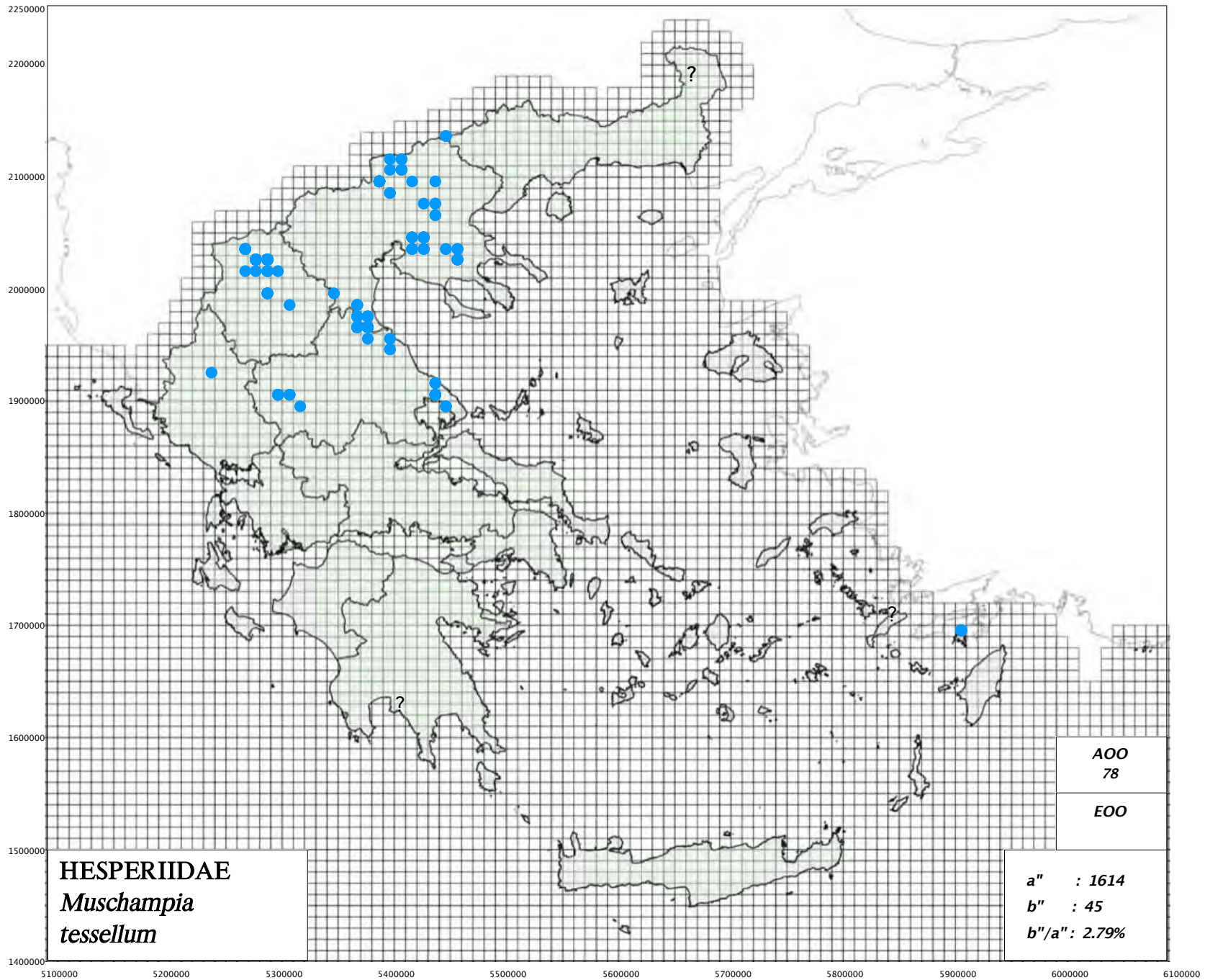
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>



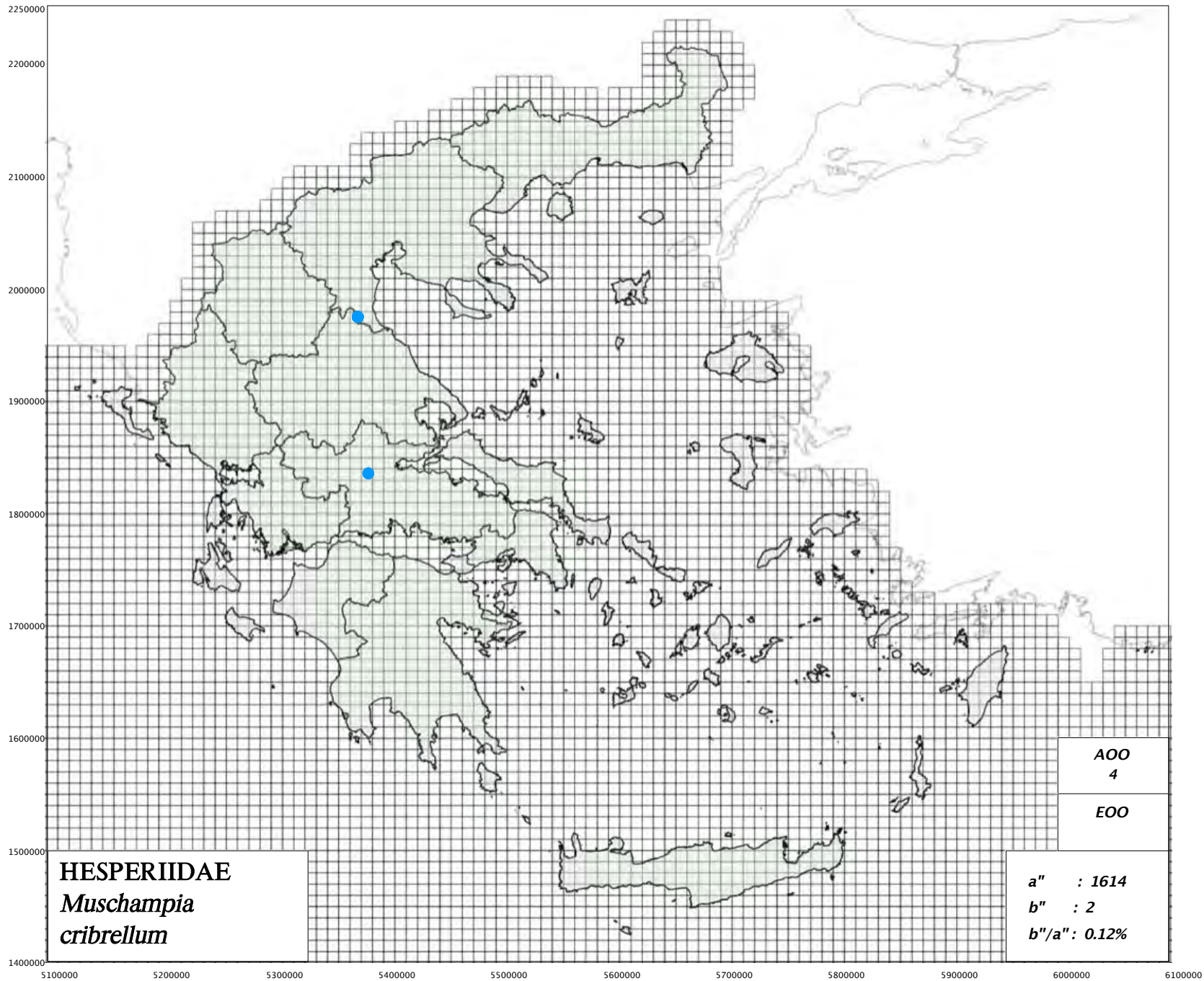
<http://www.pamperis.gr/PHOTOGRAPHS/Pyrgus.html>



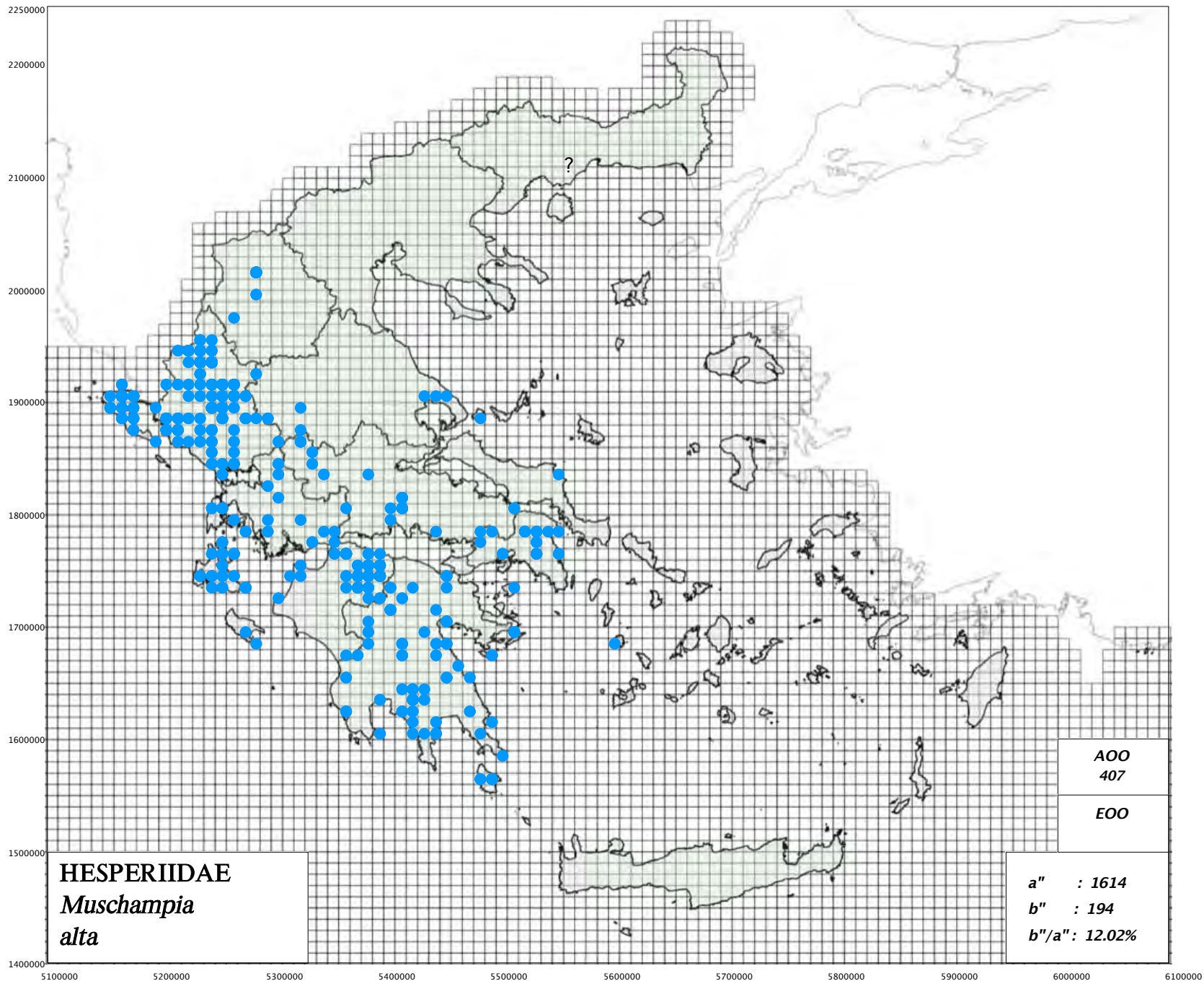




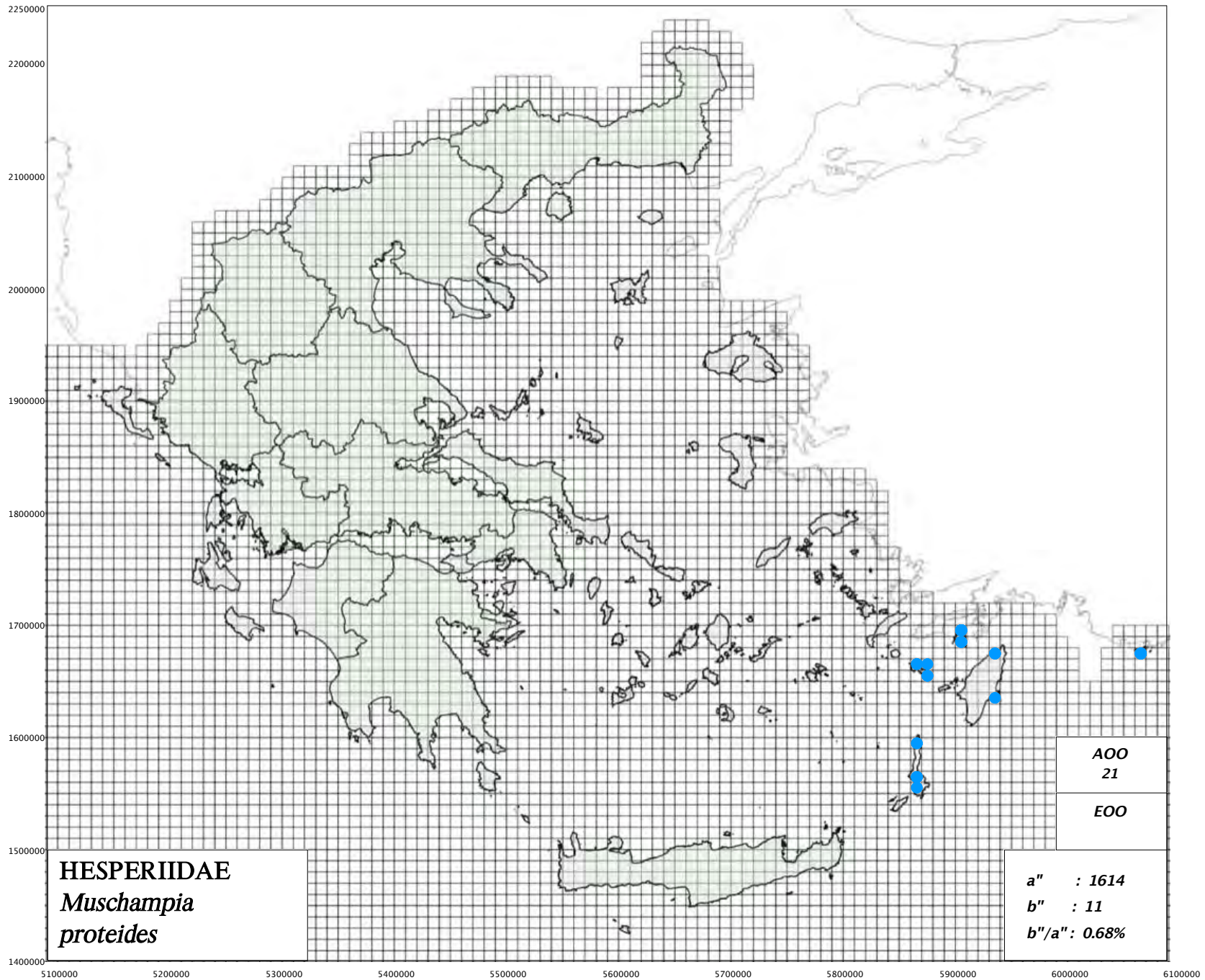
<http://www.pamperis.gr/PHOTOGRAPHS/Muschampia.html>



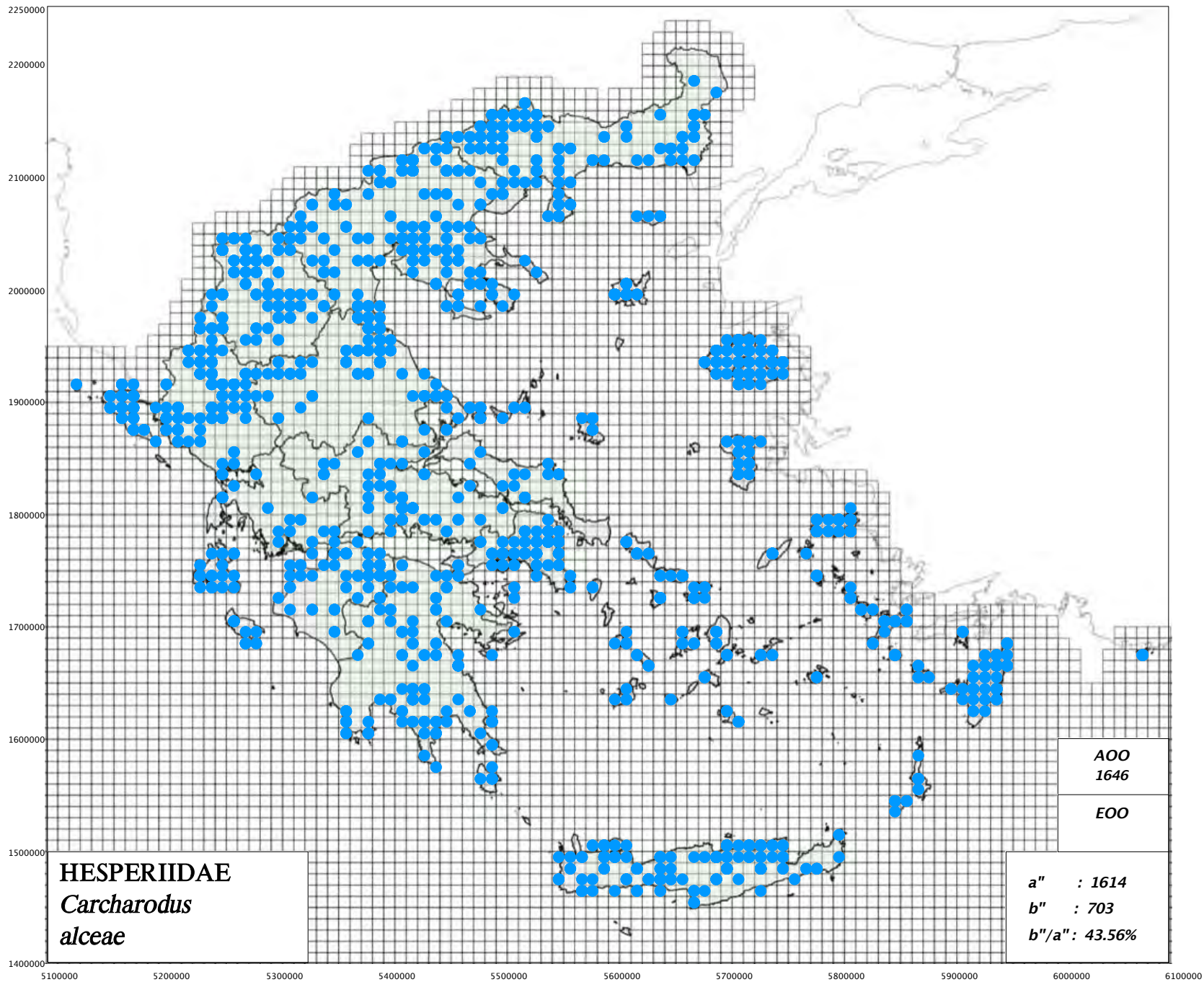
<http://www.pamperis.gr/PHOTOGRAPHS/Muschampia.html>



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

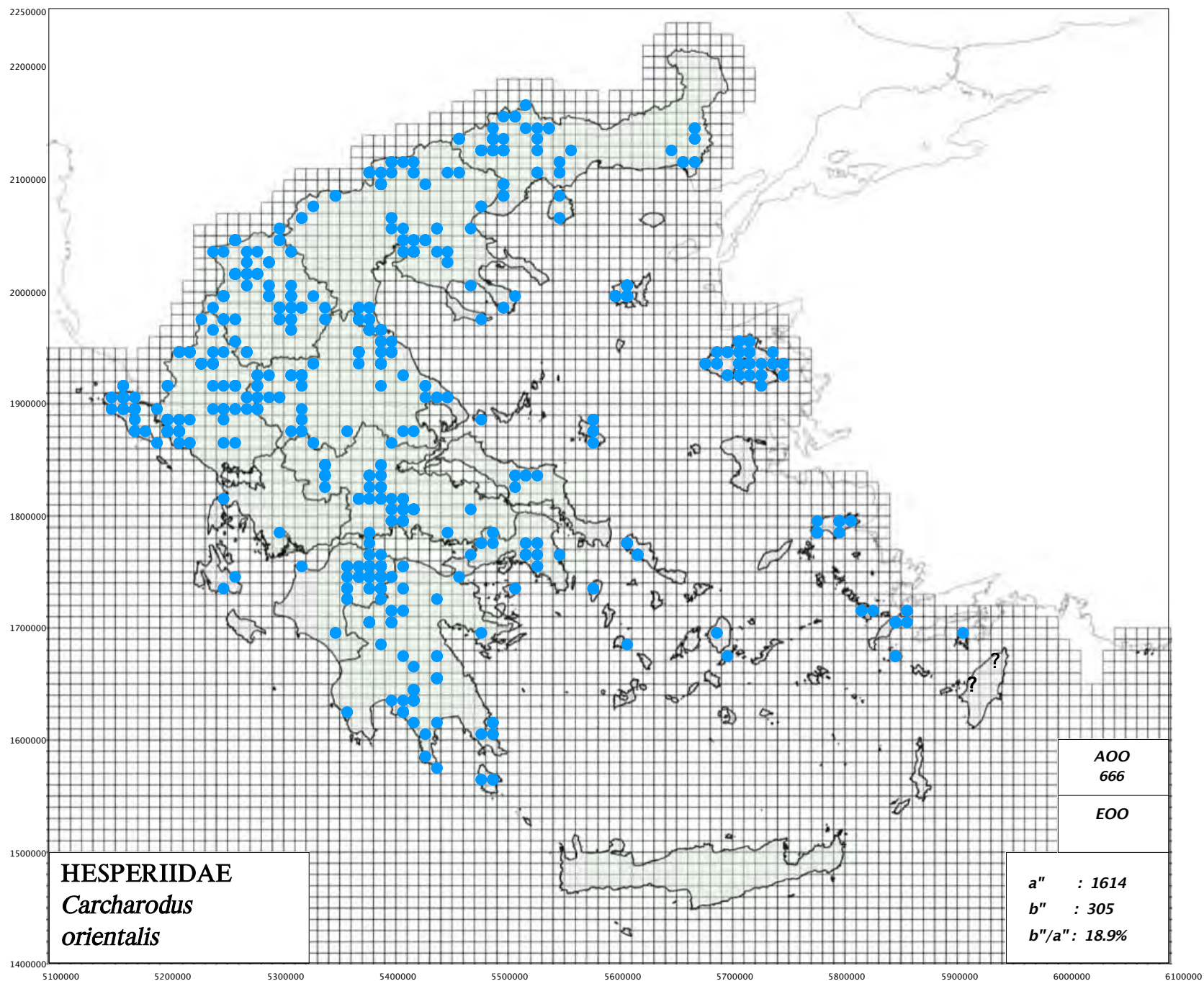


<http://www.pamperis.gr/PHOTOGRAPHS/Muschampia.html>

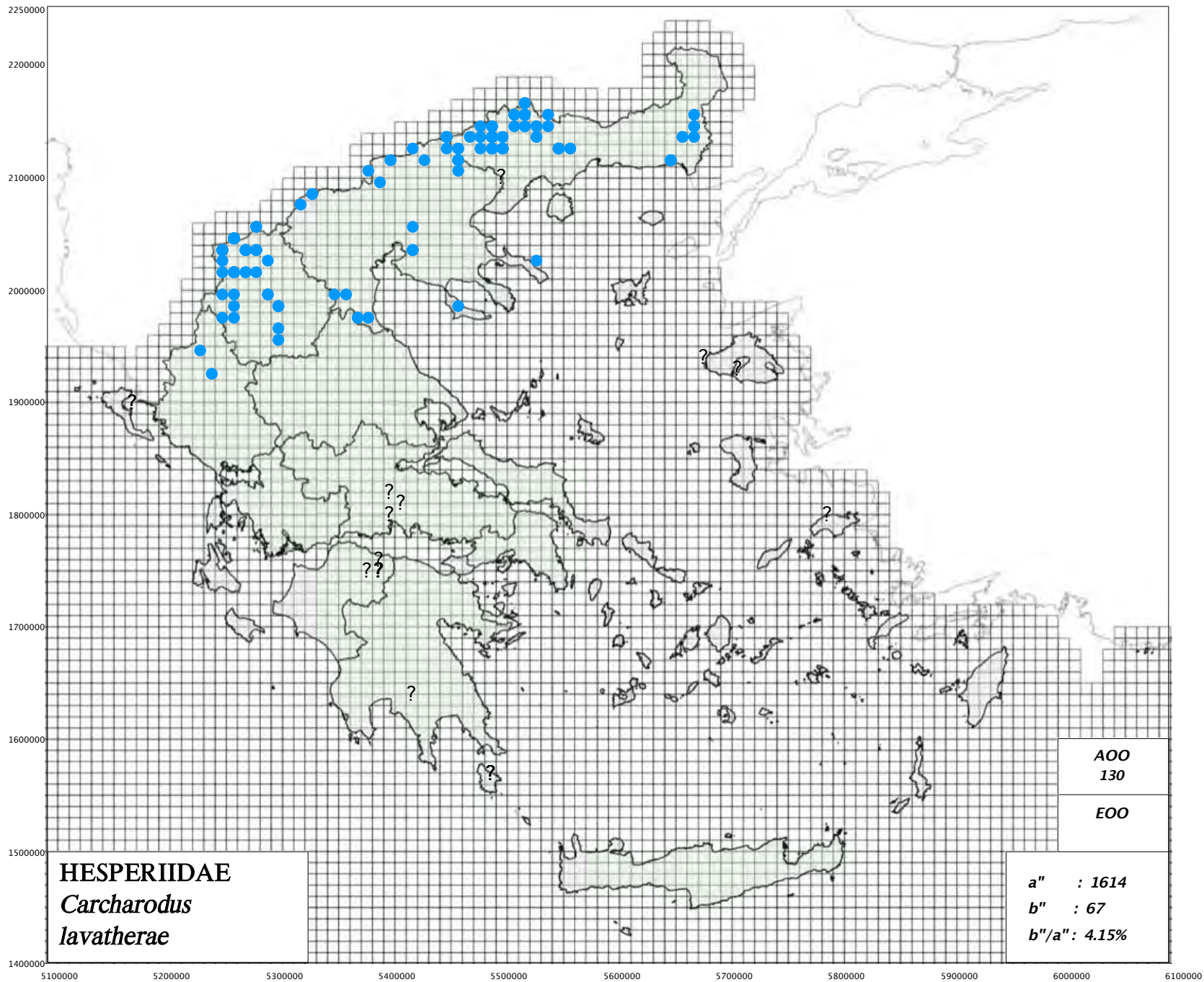


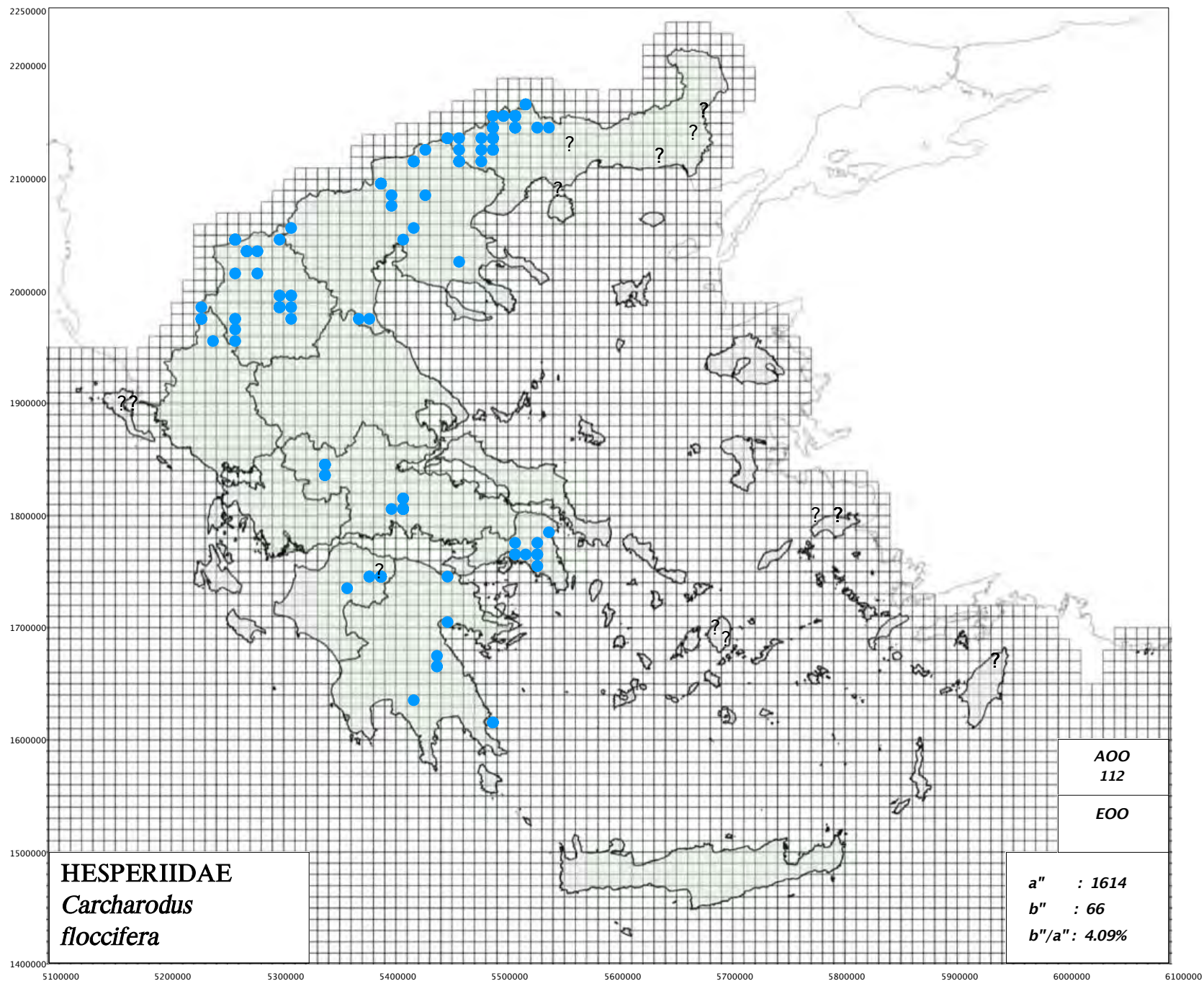
<http://www.pamperis.gr/PHOTOGRAPHS/Carcharodus.html>

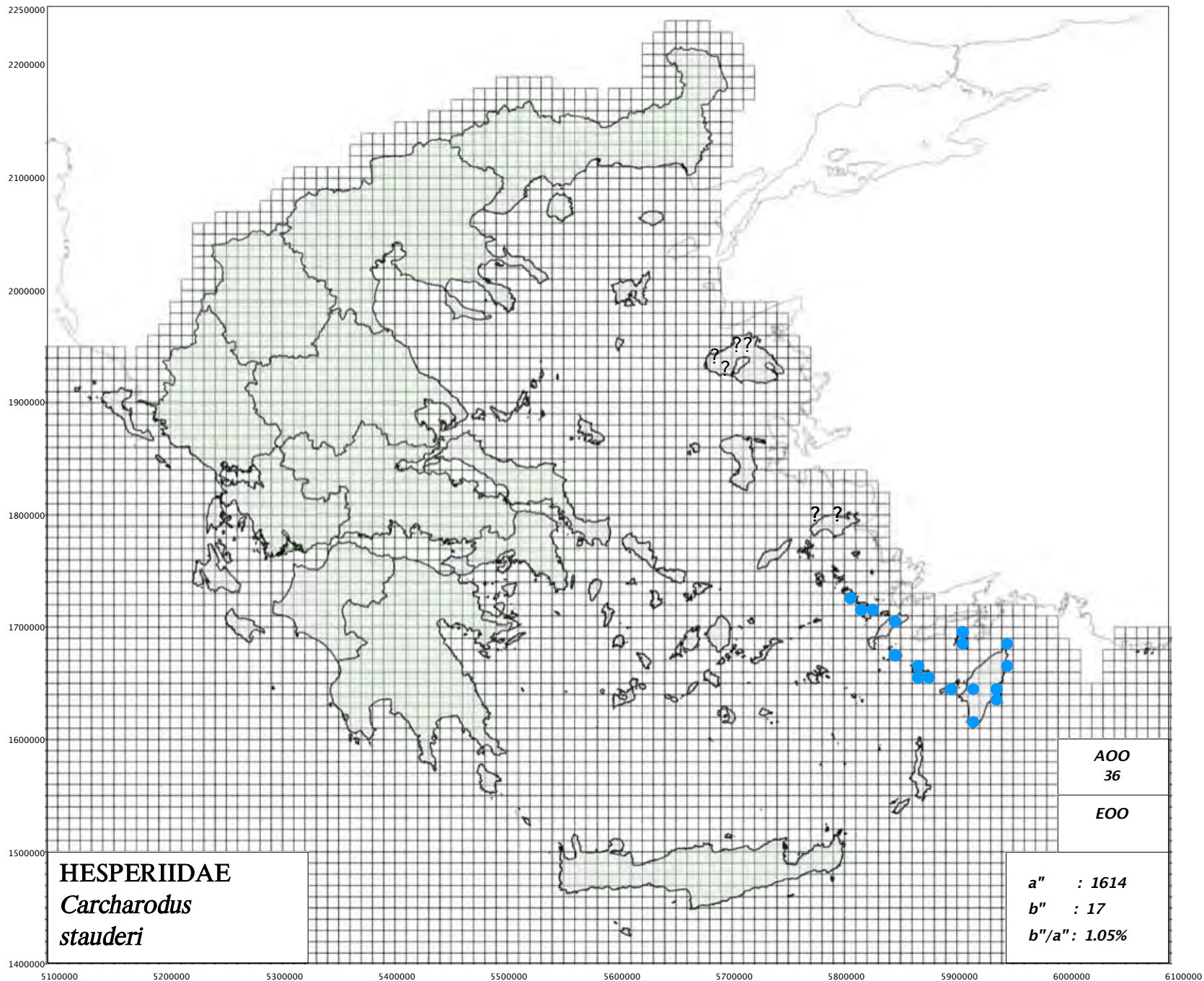
Αμφίβολη αναγνώριση /
Identification Uncertain



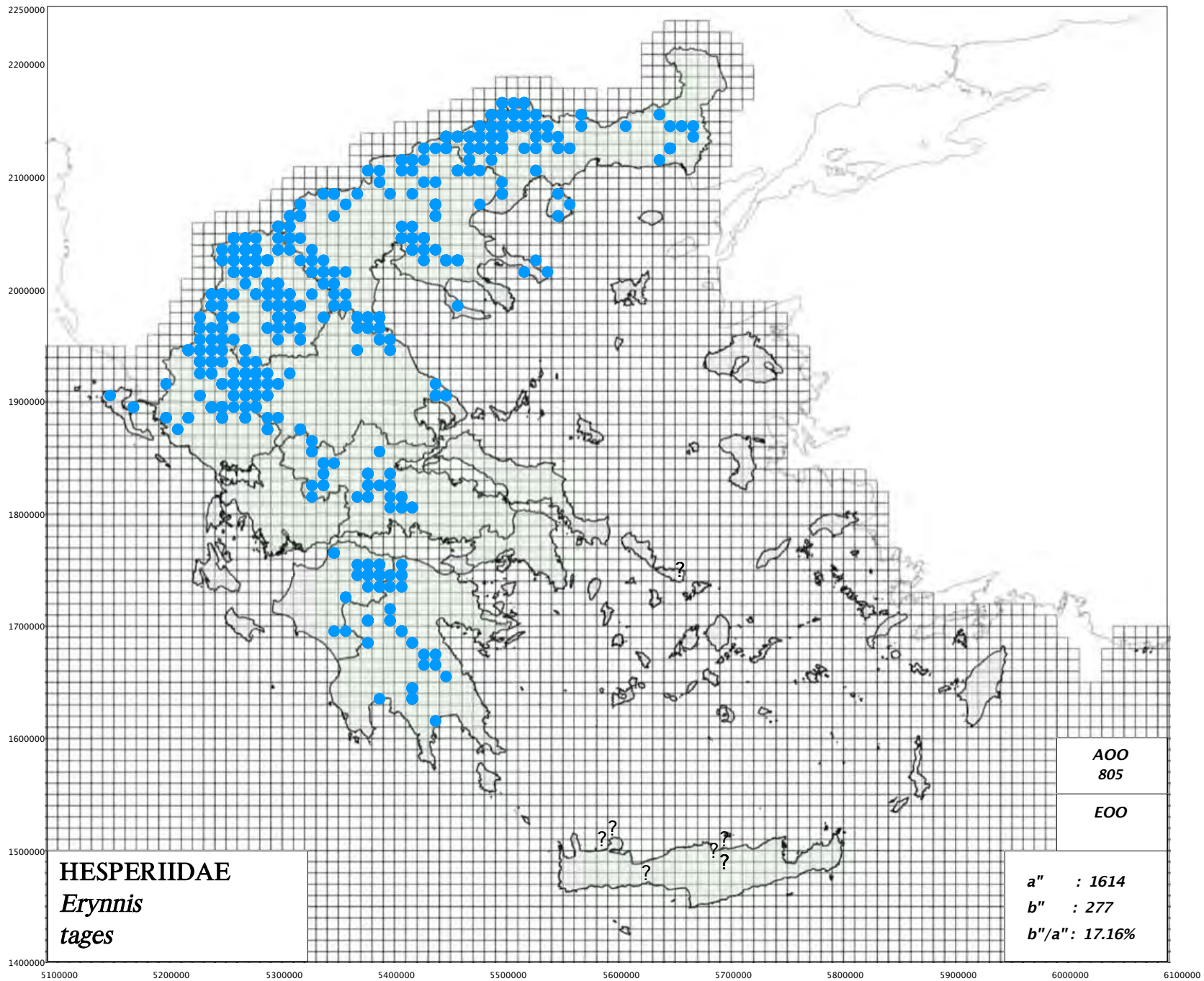
<http://www.pamperis.gr/PHOTOGRAPHS/Carcharodus.html>

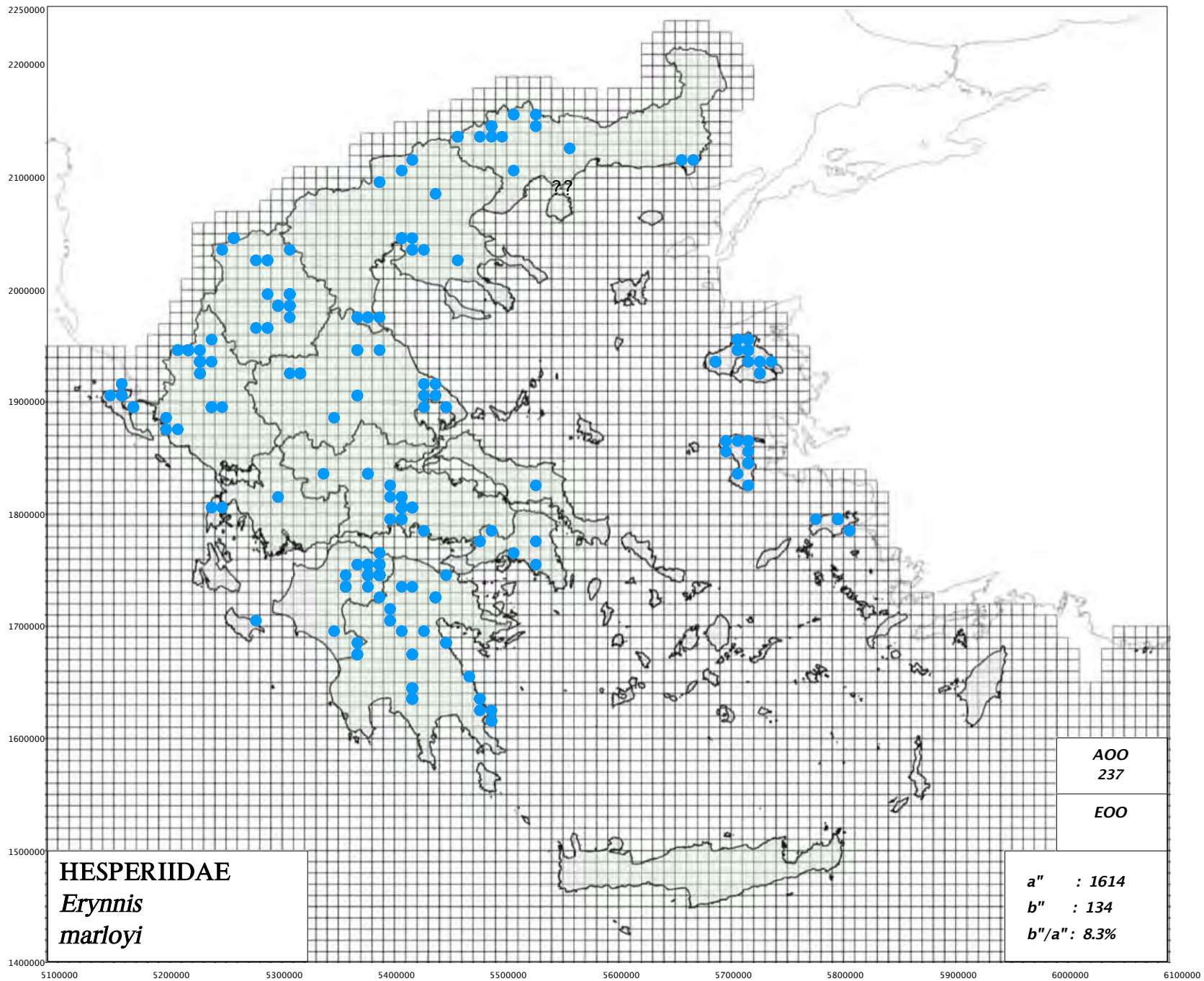


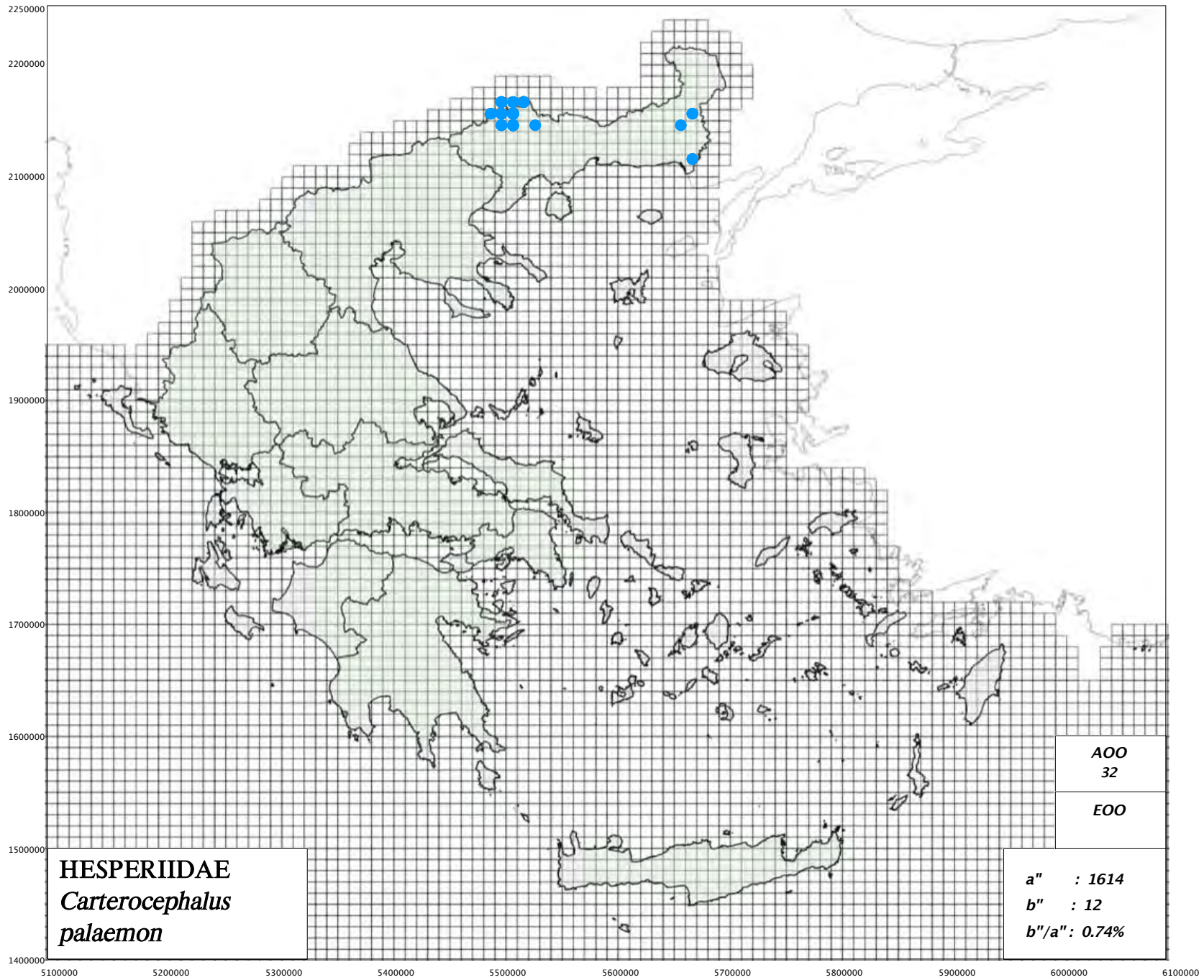


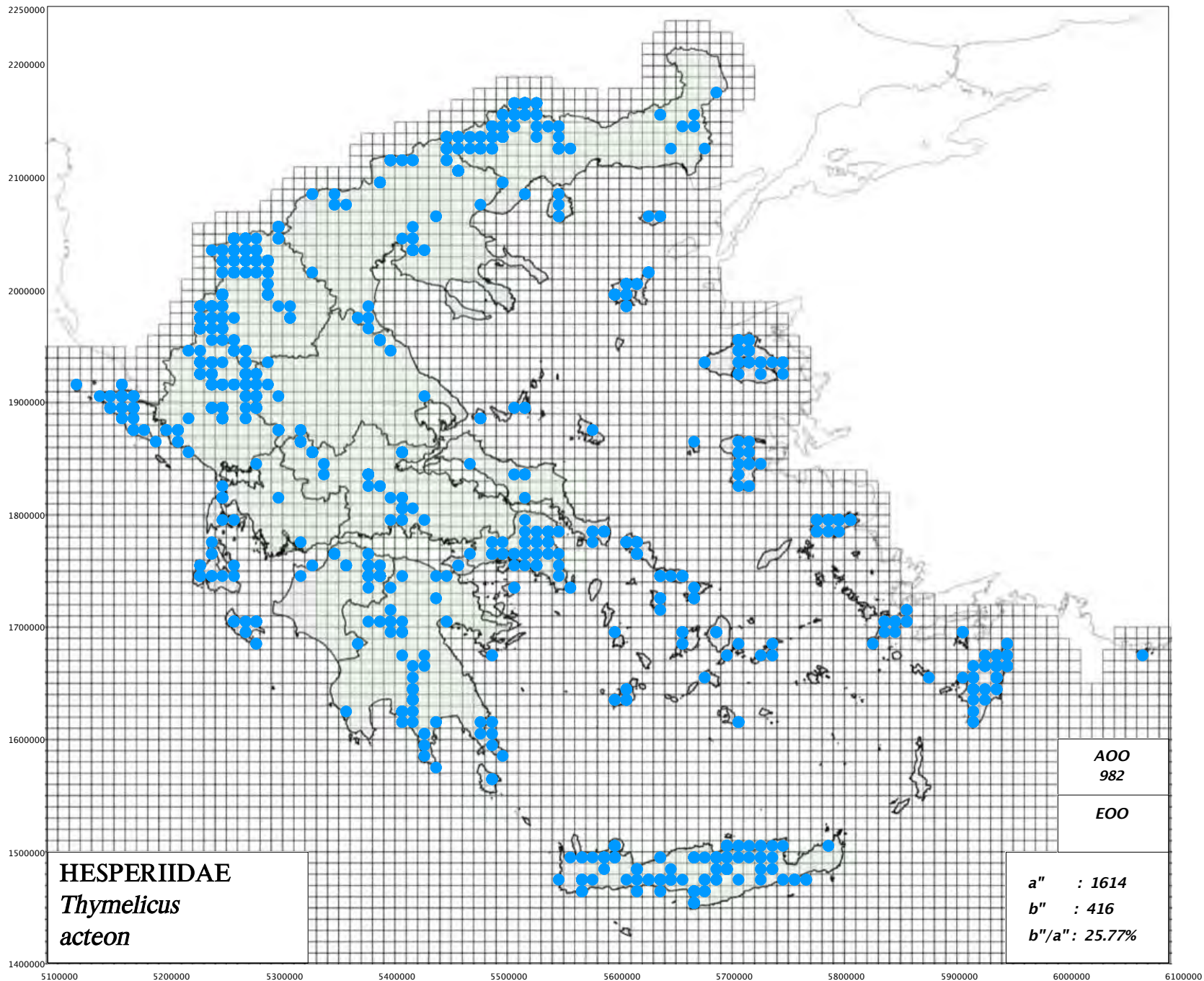


<http://www.pamperis.gr/PHOTOGRAPHS/Carcharodus.html>

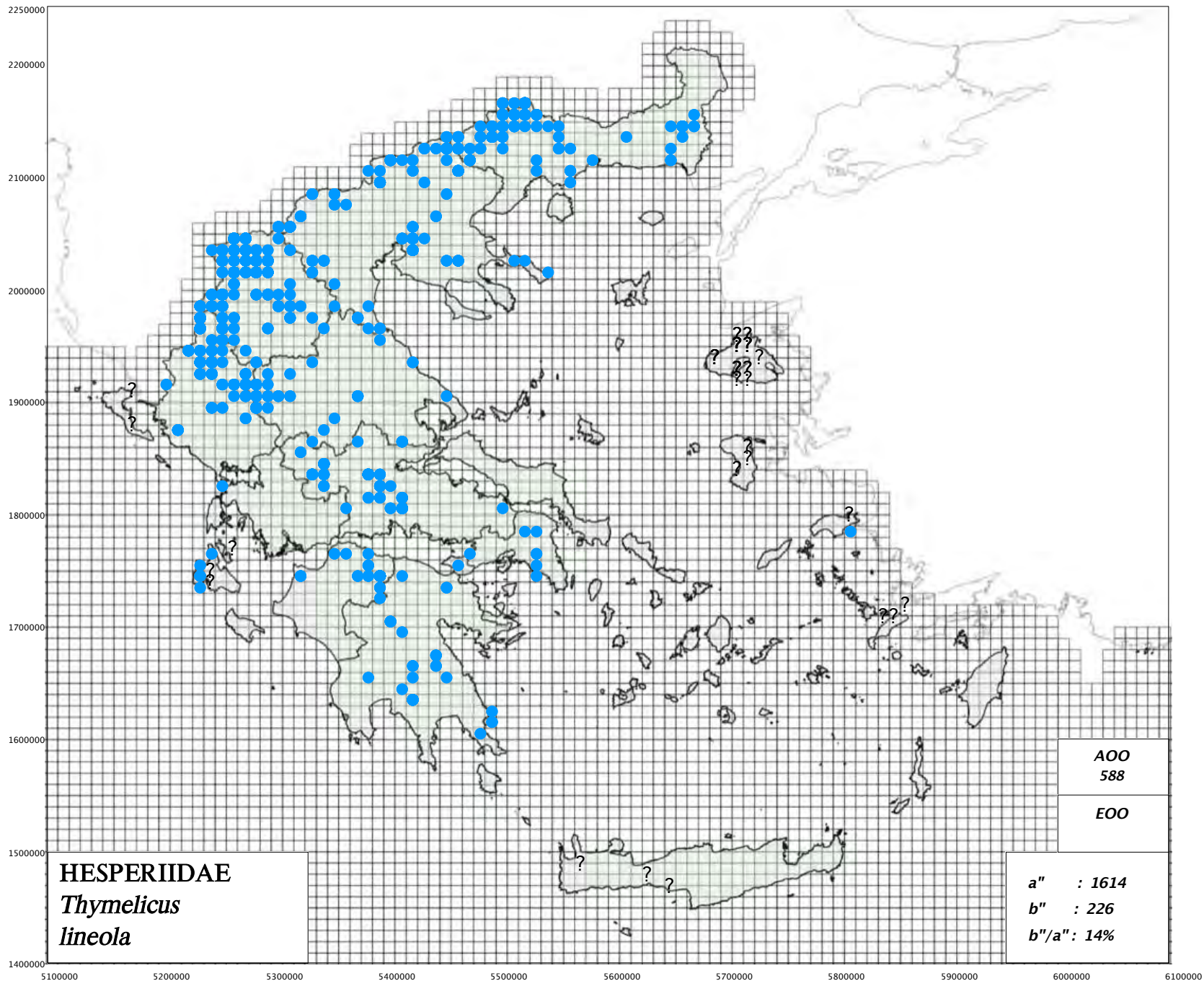




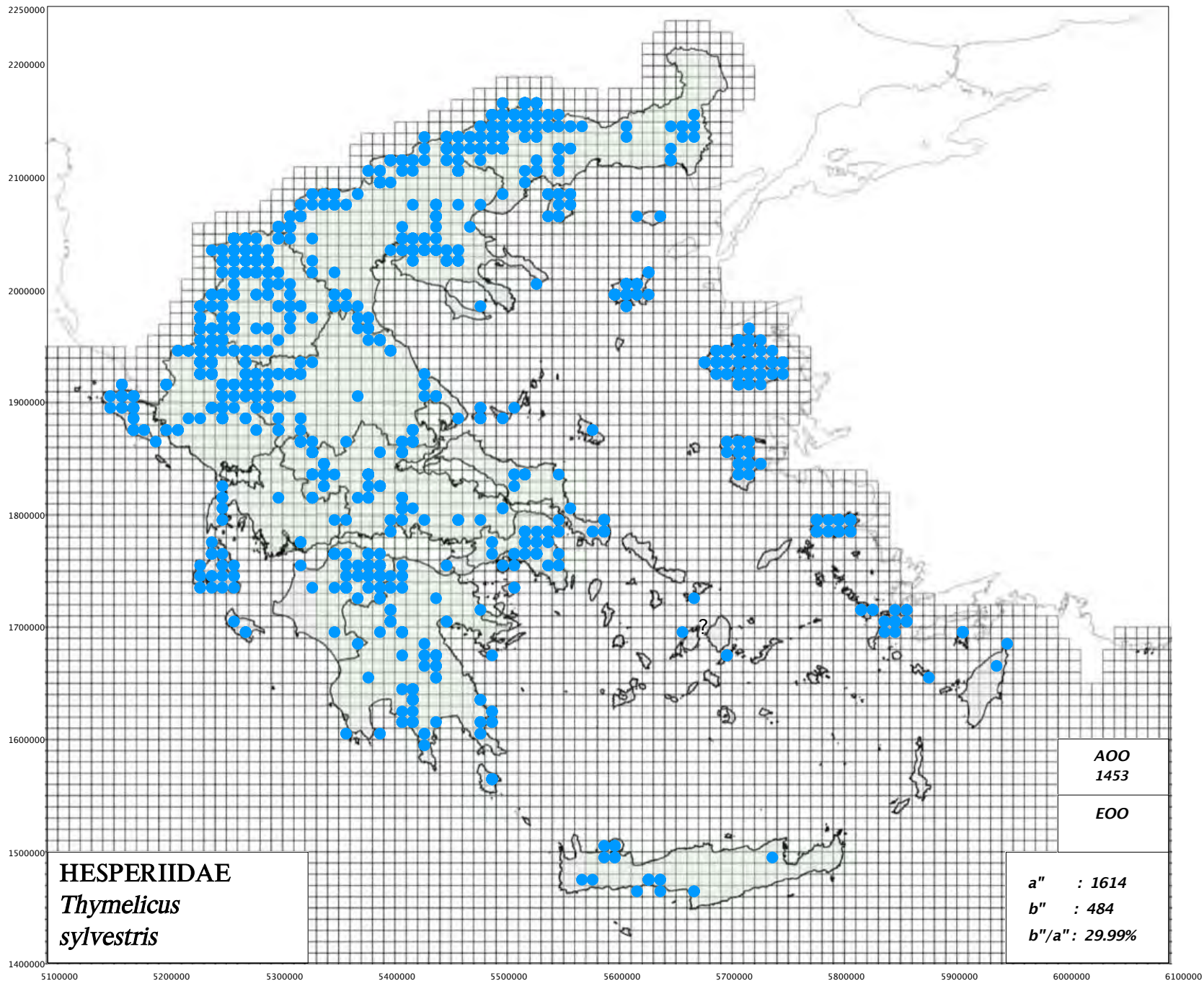




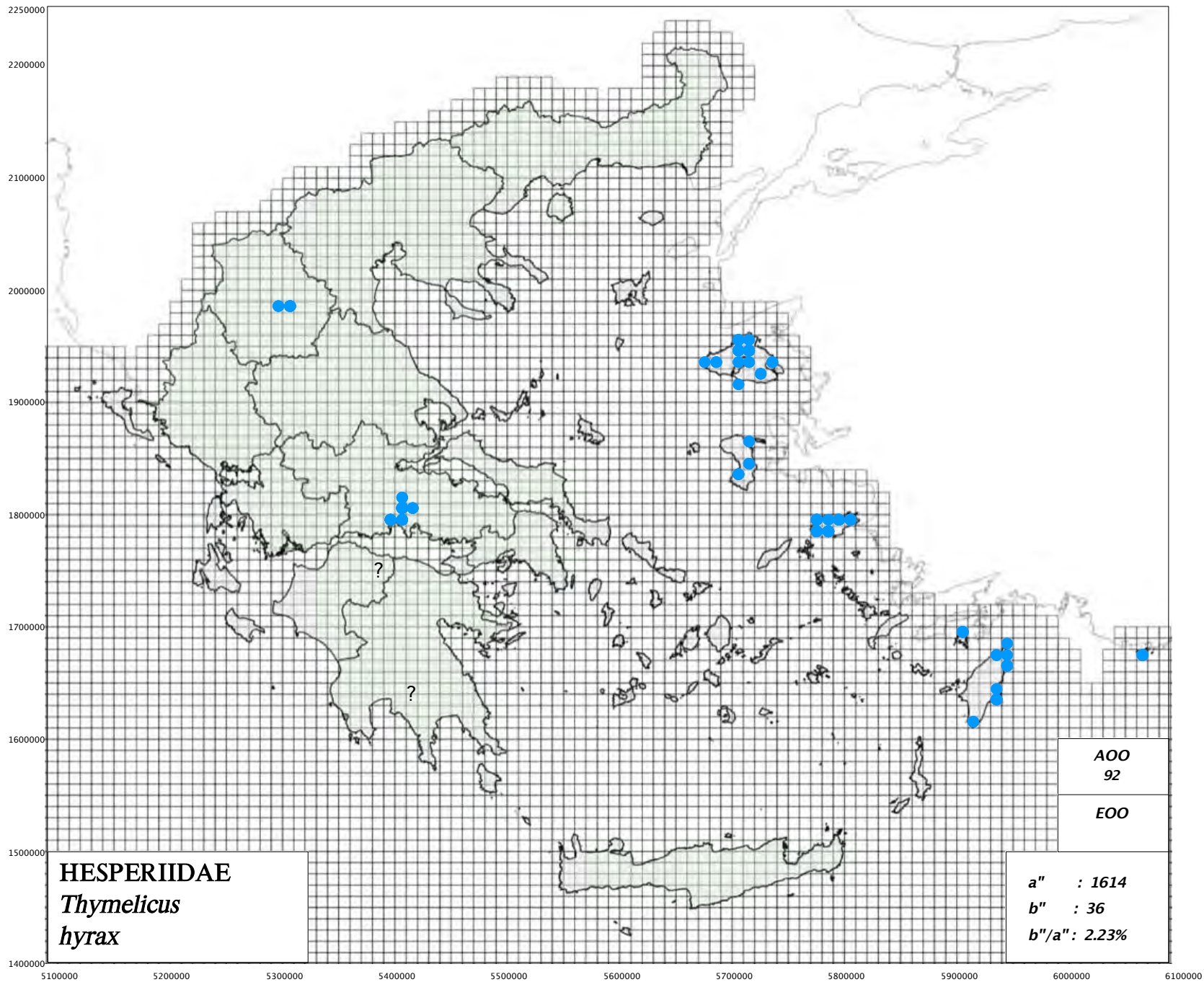
<http://www.pamperis.gr/PHOTOGRAPHS/Thymelicus.html>

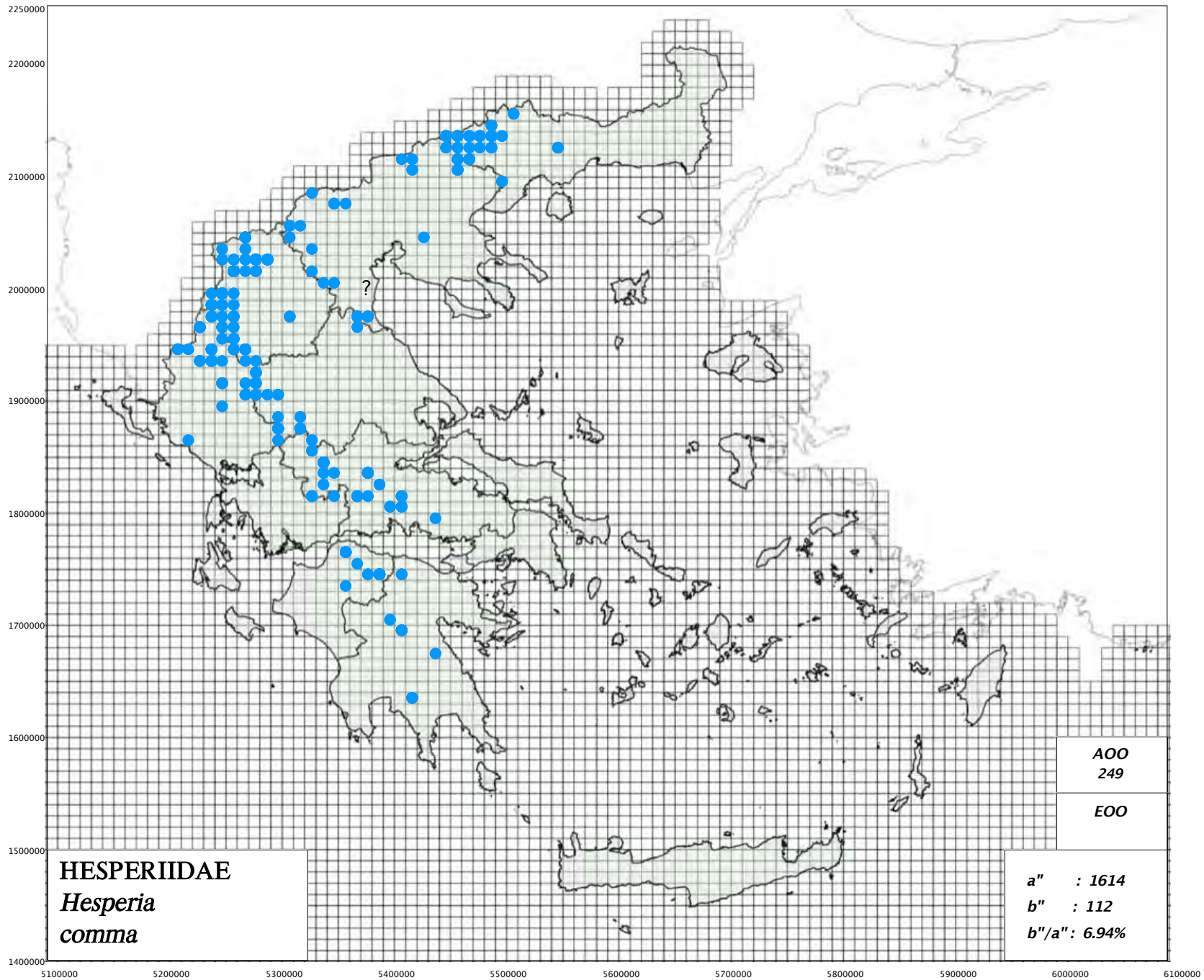


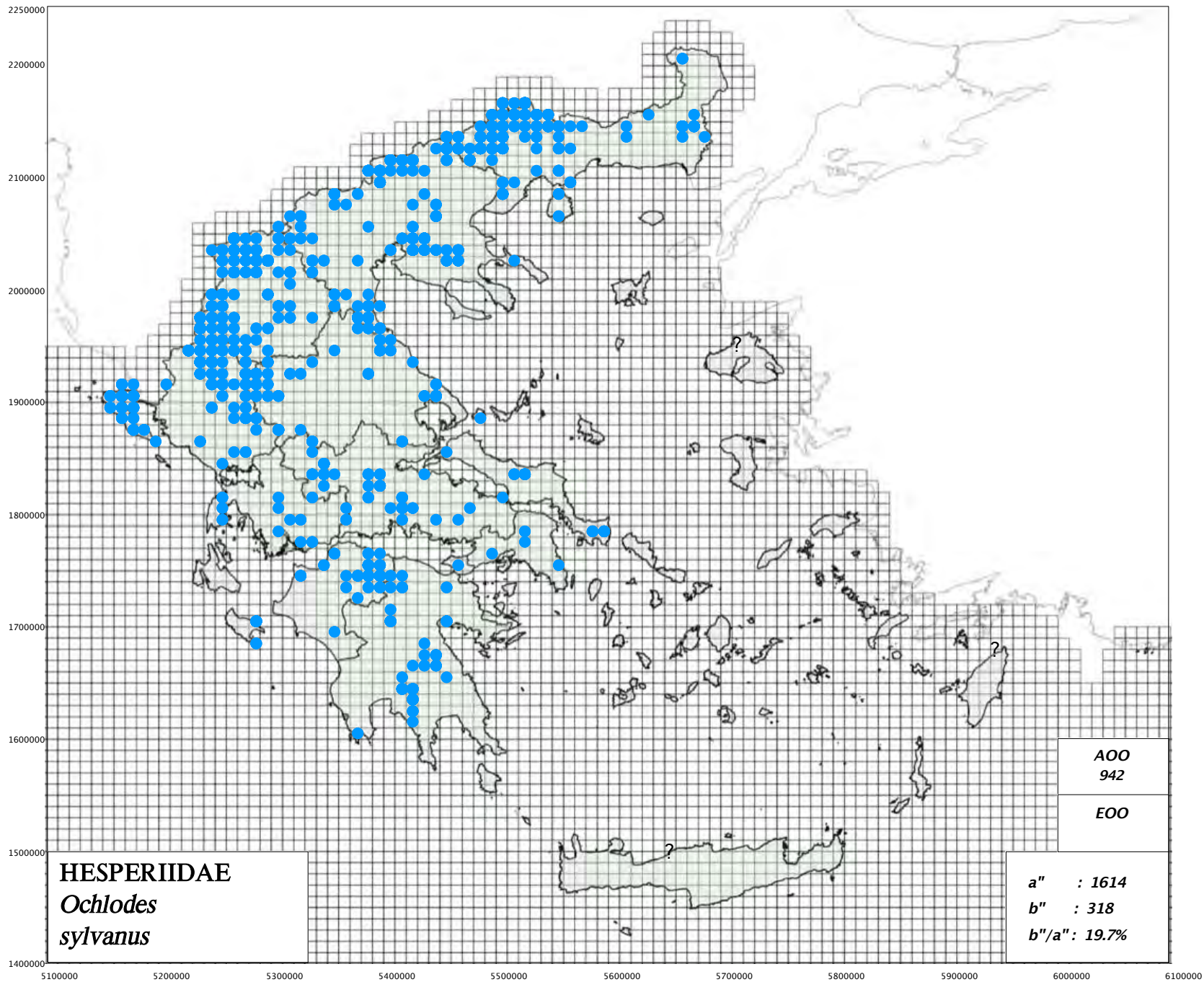
<http://www.pamperis.gr/PHOTOGRAPHS/Thymelicus.html>

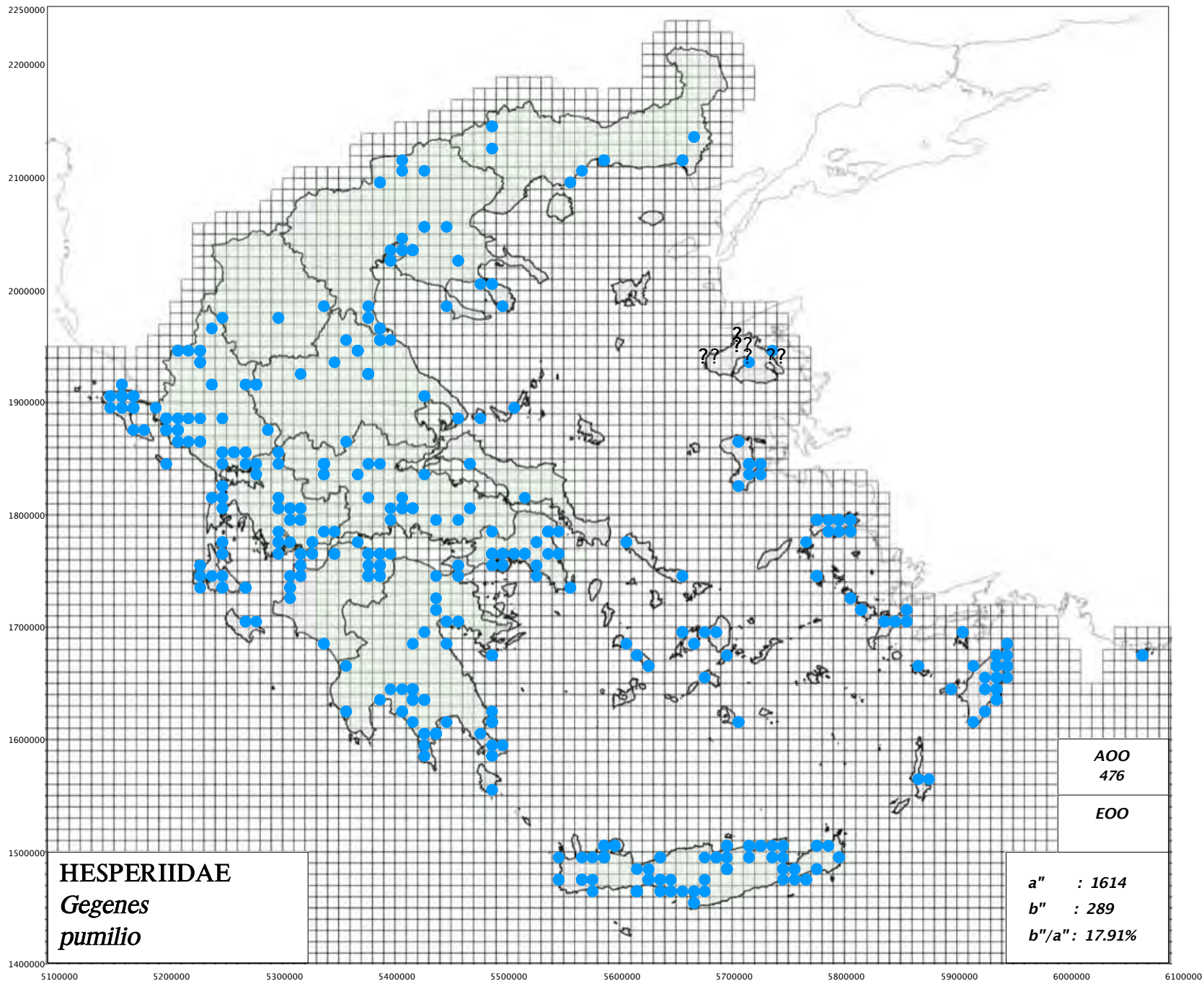


<http://www.pamperis.gr/PHOTOGRAPHS/Thymelicus.html>









http://www.pamperis.gr/PHOTOGRAPHS/Gegenes_pumilio_nostrodamus_complex.html

