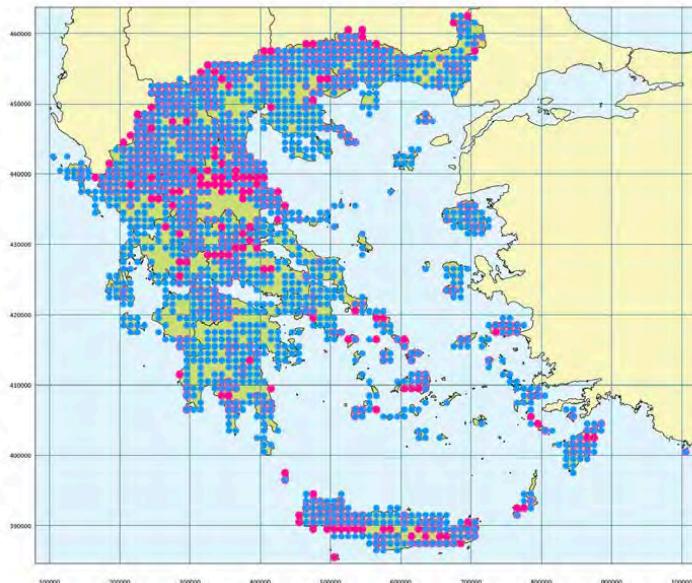


ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

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



GGRS87

THE BUTTERFLIES OF GREECE

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

by Lazaros N. Pamperis

2020

ΠΡΟΛΟΓΟΣ

Στις επόμενες σελίδες παρουσιάζονται νέοι 235 χάρτες εξάπλωσης των ειδών δηλαδή οι Χάρτες 3.3', νέος Χάρτης 4.15' (ανάλογος αυτόν στην σελίδα 736 της δεύτερης έκδοσης του βιβλίου ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ, 2009) και νέος Χάρτης 4.16' (στην σελίδα 738).

Οι νέοι αυτοί χάρτες έχουν συντεταγμένες του συστήματος GGRS87 και αφορούν συνολικά όλες τις 1558 τοποθεσίες 10X10 km, που έχουν εξερευνηθεί. Για όλα τα είδη σημειώνεται στους Χάρτες 4.3' η AOO (Area Of Occupancy , 2X2Km) σε Km², Οι νέοι αυτοί Χάρτες προέρχονται και αυτοί από τις συνολικά 407512 καταγραφές για τις πεταλούδες της Ελλάδας, που συγκεντρώθηκαν μέχρι 31 XII 2019 (αντίστοιχα 265134 καταγραφές, το 2008).

Αυτή η αύξηση των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2020) 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 2742 μέλη την 31 XII 2019) στο <http://www.facebook.com/groups/420659294633829/>.

Τώρα στην Ελλάδα υπάρχουν 235 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.

Για επιπλέον 165 νέες φωτογραφίες και περισσότερες λεπτομέρειες στο URL: <http://www.pamperis.gr> και στις 6 ελεύθερες εφαρμογές στο http://www.pamperis.gr/btf_site/

PREFACE

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

The new Maps are made with coordinates in GGRS87, after in total 407512 records for the butterflies of Greece (till 31 XII 2019) for a total number of 1558 investigated localities 10X10 km (compare to 265134 records, in 2008). For all species AOO (Area Of Occupancy 2X2Km) is noted on Maps 3.3' in Km².

This increase in records is made after personal investigations (from 2008-2020) 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 2742 members at 31 XII 2019) in <http://www.facebook.com/groups/420659294633829/> .

Now there are 235 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.

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

Larissa 1 January 2020

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/>

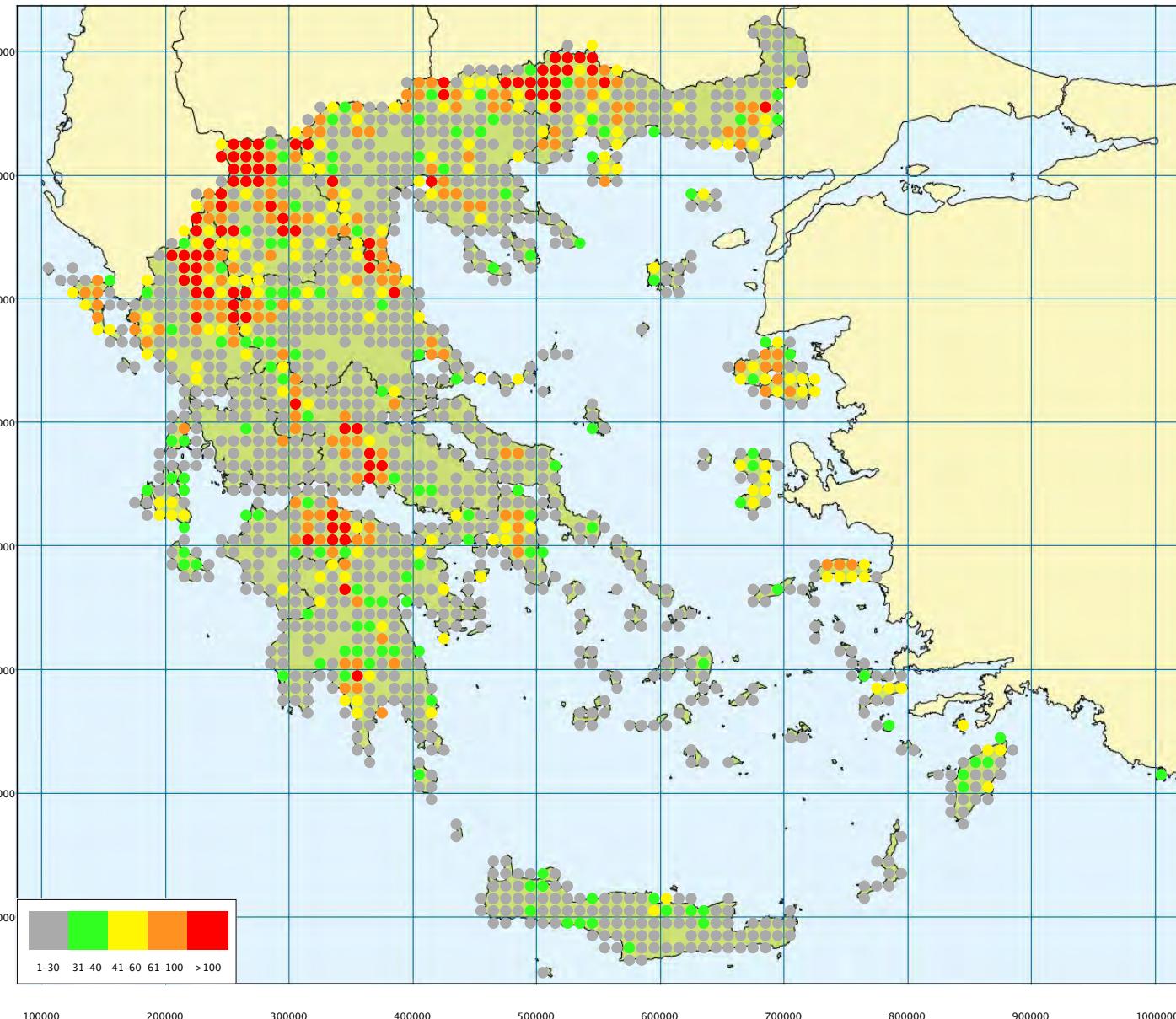
ΜΟΥΣΕΙΟ ΓΟΥΛΑΝΔΡΗ ΦΥΣΙΚΗΣ ΙΣΤΟΡΙΑΣ <http://www.gnhm.gr/>

και and

ΠΡΟΣΩΠΙΚΕΣ ΕΠΙΚΟΙΝΩΝΕΙΕΣ PERSONAL COMMUNICATIONS

ΑΓΑ ΑΝΤΩΝΙΑ	ΚΑΝΕΛΙΔΟΥ ΆΝΝΑ	ΜΑΜΑΗΣ ΘΕΟΔΟΣΗΣ	ΣΠΥΡΙΔΑΚΙΣ ΓΕΩΡΓΙΟΣ
ΑΓΓΛΟΠΟΥΛΟΣ ΒΑΣΙΛΕΙΟΣ	ΚΑΡΑΓΙΑΝΝΗ ΟΛΓΑ	ΜΑΡΓΑΡΙΤΟΠΟΥΛΟΥ ΒΑΣΙΛΙΚΗ	ΣΤΑΜΕΛΛΟΥ ΑΥΡΑ
ΑΓΡΑΦΙΩΤΗΣ ΔΗΜΗΤΡΙΟΣ	ΚΑΡΑΜΠΙΛΑΣ ΛΕΥΤΕΡΗΣ	ΜΑΡΟΥΛΗΣ ΧΡΗΣΤΟΣ	ΣΤΑΥΡΙΔΗΣ ΣΤΑΥΡΟΣ
ΑΛΕΞΙΟΥ ΣΩΤΗΡΗΣ	ΚΑΣΣΙΟΣ ΚΩΣΤΑΣ	ΜΑΣΤΟΡΑΚΗΣ ΑΝΤΩΝΗΣ	ΣΤΡΑΧΙΝΗΣ ΗΛΙΑΣ
ΑΝΑΣΤΑΣΙΟΥ ΧΡΗΣΤΟΣ	ΚΑΤΣΑΟΥΝΗΣ ΑΠΟΣΤΟΛΟΣ	ΜΑΥΡΑΓΑΝΗ ΒΑΣΙΛΕΙΑ	ΣΥΚΑΣ ΒΑΣΙΛΗΣ
ΑΝΔΡΙΟΠΟΥΛΟΣ ΠΑΥΛΟΣ	ΚΑΦΚΑΛΕΤΖΟΥ ΝΤΙΕΣ ΑΡΤΕΜΙΣ	ΜΗΤΣΟΠΟΥΛΟΥ ΙΩΛΗ	ΤΑΜΒΑΚΑΣ ΚΩΣΤΑΣ
ΑΠΕΡΓΗ ΣΟΦΙΑ	ΚΑΨΟΥΡΑΣ ΓΙΩΡΓΟΣ	ΜΗΤΣΟΠΟΥΛΟΥ ΜΑΡΙΚΑ	ΤΖΑΦΕΤΑΣ ΧΡΗΣΤΟΣ
ΒΑΡΒΑΡΗΓΟΣ ΓΕΩΡΓΙΟΣ	ΚΛΕΙΔΑΡΑΣ ΧΡΗΣΤΟΣ	ΜΙΝΑΧΕΙΛΗΣ ΚΩΣΤΑΣ	ΤΖΑΧΕΙΛΑΣ ΔΗΜΗΤΡΙΟΣ
ΒΑΣΙΛΕΙΑΔΗΣ ΔΙΟΝΥΣΗΣ	ΚΟΓΙΑΣ ΝΤΙΝΟΣ	ΜΟΣΧΟΒΗΣ ΜΙΧΑΗΛ	ΤΖΗΜΟΥΛΗΣ ΟΔΥΣΣΕΑΣ
ΒΑΣΙΛΕΙΑΔΗΣ ΣΑΒΒΑΣ	ΚΟΛΛΙΑΣ ΤΑΣΟΣ	ΜΠΑΣΓΙΟΥΡΑΚΗΣ ΘΕΟΦΙΛΟΣ	ΤΖΩΡΤΖΑΚΑΚΗ ΟΛΓΑ
ΓΑΒΑΛΑΣ ΓΙΑΝΝΗΣ	ΚΟΛΟΒΟΥ ΜΥΡΤΩ	ΜΠΕΣΙΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ	ΤΣΕΛΟΣ ΗΛΙΑΣ
ΓΑΒΑΛΑΣ ΝΙΚΟΣ	ΚΟΜΗΝΟΣ ΘΕΟΔΩΡΟΣ	ΜΠΙΣΑ ΧΑΡΙΚΛΕΙΑ	ΤΣΙΡΙΔΗΣ ΑΛΕΞΑΝΔΡΟΣ
ΓΑΛΑΝΗΣ ΕΛΕΥΘΕΡΙΟΣ	ΚΟΝΤΑΚΟΣ ΔΗΜΗΤΡΗΣ	ΝΟΥΤΣΙΑ ΝΙΚΗ	ΤΣΙΦΛΑΚΗΣ ΕΛΕΥΘΕΡΙΟΣ
ΓΑΛΑΝΟΣ ΧΡΗΣΤΟΣ	ΚΟΡΑΚΗΣ ΑΛΕΞΑΝΔΡΟΣ	ΝΟΥΤΣΙΑΣ ΣΤΕΦΑΝΟΣ	ΤΣΟΥΚΛΕΙΔΗΣ ΓΕΩΡΓΙΟΣ
ΓΕΩΡΓΑΣ ΣΤΕΦΑΝΟΣ	ΚΟΥΡΤΗΣ ΧΑΡΙΛΑΟΣ	ΝΑΣΟΠΟΥΛΟΥ ΘΕΜΙΣ	ΦΑΚΑΣ ΓΕΩΡΓΙΟΣ
ΓΙΑΝΑΚΑ ΔΗΜΗΤΡΑ	ΚΟΥΤΣΗΣ ΓΙΑΝΝΗΣ	ΝΕΖΗΣ ΝΙΚΟΣ	ΧΑΛΚΙΑΔΑΚΗΣ ΠΕΤΡΟΣ
ΓΚΙΟΚΑΣ ΣΤΕΦΑΝΟΣ	ΚΡΙΚΕΛΗ ΕΛΕΥΘΕΡΙΑ	ΝΙΚΟΜΑΝΗ ΑΛΕΞΙΑ	ΧΑΛΚΙΑΣ ΒΑΣΙΛΗΣ
ΓΟΥΣΙΑΣ ΒΑΣΙΛΗΣ	ΛΑΔΟΝΙΚΟΛΑ ΜΑΡΙΑ	ΞΑΝΘΑΚΗΣ ΜΙΧΑΛΗΣ	ΧΑΤΖΗΔΑΚΗΣ ΠΑΝΑΓΙΩΤΗΣ Ι
ΓΡΗΓΟΡΙΑΔΟΥ ΕΛΠΙΔΑ	ΛΑΦΡΑΝΧΗΣ ΑΝΤΩΝΗΣ	ΞΥΔΗ ΔΗΜΗΤΡΑ	ΧΡΙΣΤΟΠΟΥΛΟΥ ΜΑΙΡΗ
ΔΑΡΜΗΣ ΓΙΩΡΓΟΣ	ΛΑΧΟΥΒΑΡΗΣ ΛΕΥΤΕΡΗΣ	ΠΑΝΟΥ ΕΛΕΝΗ	ΧΡΙΣΤΟΦΙΔΗΣ ΓΙΑΝΝΗΣ
ΔΗΜΑΔΗΣ ΧΡΗΣΤΟΣ	ΛΕΒΑΔΙΩΤΗΣ ΧΕΝΟΦΩΝ	ΠΑΠΑΔΗΜΗΤΡΙΟΥ ΕΥΑΓΓΕΛΟΣ	ΨΑΛΛΙΔΑΣ ΒΑΣΙΛΗΣ
ΔΗΜΑΚΗ ΜΑΡΙΑ	ΛΕΚΚΑ ΒΕΝΕΤΙΑ	ΠΑΠΑΔΡΑΓΚΑ ΕΥΑΓΓΕΛΙΑ	ALBRECHT MARTIN
ΔΡΑΖΙΝΟΣ ΔΗΜΗΤΡΙΟΣ	ΛΕΚΚΑ ΡΟΥΛΑ	ΠΑΠΑΝΔΡΟΠΟΥΛΟΣ Δ	BAUDRAZ MICHEL
ΔΡΟΛΑΠΑ ΓΙΟΥΛΑ	ΛΕΚΚΑΣ ΑΔΡΙΑΝΟΣ	ΠΑΠΑΠΑΥΛΟΥ ΚΕΛΛΗ	BEAUCKOMP PETER C
ΕΛΑΦΡΟΠΟΥΛΟΣ ΑΘΑΝΑΣΙΟΣ	ΛΕΚΚΑΣ ΒΑΣΙΛΗΣ	ΠΕΤΡΙΝΟΣ ΚΩΝΣΤΑΝΤΙΝΟΣ	BERRY MATT
ΖΑΧΑΡΑΚΗΣ ΙΩΑΝΝΗΣ	ΛΟΒΕΡΔΟΥ ΣΟΦΙΑ	ΠΟΥΓΑΔΑΚΗ ΚΡΥΣΤΑΛΛΕΝΙΑ	BESHKOV STOYAN
ΖΩΓΡΑΦΟΥ ΚΩΝΣΤΑΝΤΙΝΑ	ΛΥΤΡΑΣ ΤΑΣΟΣ	ΣΑΛΕΠΗ ΚΩΝΣΤΑΝΤΙΝΑ	BONETTI ANDREA
ΘΑΝΟΠΟΥΛΟΣ ΡΟΙΚΟΣ	ΜΙΧΑΣ ΙΩΑΝΝΗΣ	ΣΙΔΕΡΗ ΣΟΦΙΑ	BOWERS JOHN K
ΘΕΟΔΩΡΟΥ ΙΡΙΣ	ΜΑΒΗΣ ΑΛΕΞΑΝΔΡΟΣ	ΣΚΟΥΦΑΚΗΣ ΒΑΓΓΕΛΗΣ	BOZANO GIAN
ΙΩΑΝΝΙΔΗΣ ΒΑΓΓΕΛΗΣ	ΜΑΓΛΑΡΑΣ ΑΘΑΝΑΣΙΟΣ	ΣΟΦΙΛΑ ΝΙΚΟΛΕΤΤΑ	BROWN JOHN
ΚΑΛΤΣΑΣ ΔΗΜΗΤΡΗΣ	ΜΑΖΑΡΑΚΗΣ ΑΝΤΩΝΗΣ	ΣΠΑΝΟΣ ΑΛΕΞΗΣ	BURRETT PETER
ΚΑΜΠΟΥΡΟΠΟΥΛΟΣ ΕΡΑΣΤΟΣ	ΜΑΚΡΗΣ ΧΡΙΣΤΟΔΟΥΛΟΣ	ΣΠΑΝΟΣ ΑΝΤΩΝΗΣ	CARPENTER ALAN

CHAULIAC ANDRE	HAATELA TARI	PRINGLE GORDON	VEROVNIK RUDI
COBB CHRIS	HABELER HEINZ	RAMEL GORDON	VLIEGENTHART ALBERT
COUPE J.	HALL D	RAVIGLIONE MARIO	WAGENER SIGBERT P.
COURCY WILLIAMS MICHAEL	HAPKA TAMAS	REYNOLDS W.J.	WATTS BERNARD
COWAN PAUL	HEAP JOHN	RODGERS PETER	WICKMAN PER-OLOF
CREPIN M.P	HULL MIKE	ROWLINGS MATTHEW	WIRTH ALEXANDER
CUVELIER SYLVAIN	HUNT PETER	RUSSELL PETER	WRIGHT DAVE
DAHL MAGNUS	JORDAN JAN	RUTHERFORD JAN	WYNNE IAN R
DARCEMONT CHRISTIAN	JUTZELER DAVID	SALMON JOHN	ZIEGLER HEINER
DIJON CATHERINE	KAPPES EVA	SAVAGE LYNDON	
DINCĂ VLAD	KAPPES WULF	SCHAIDER PAUL	
DOWDING JULIAN	KOLEV ZDRAVKO	SMETHURST MIKE	
DROUET ERIC	LAFRANCHIS TRISTAN	SPENCER SIMON	
DUDLEY STEVE	MAIER MARIO	SPILLER JOY	
DURDIN CHRIS	MAJER JINDRICH	SPRUYTTE STEF	
EDDIE JOHN	MANDZIEJEWICZ R.	STANDRING KEVIN	
EDMUND'S HENRY. A	MANN JOHN	STANLEY G. A.	
ELLIS SAM	MASON STEPHEN A	STEUR JOEP	
FENN PATRICIA	MAUNDER MIKE	STUBGAARD JORGEN	
FOLEY MICHAEL	MAZZEI PAOLO	SUTTON PETER	
FOWLES ANDRIAN P.	MEREDITH GUY	SVELKUTIS MICK	
FOX KIM	MØLGAARD MORTEN S	TAYLOR MIKE	
FOX KIM	MURPHEY CHRIS	THOMPSON NEIL	
FOX RICHARD	NORBERT ULMAN	THOMSON G.	
FOX RITCHARD	OISTEIN BERG	THORSEN NIELS	
FULLER MICHAEL	PEACE NIGEL	TOLMAN TOM	
GATTI FRANCESCO	PERKINS ROGER	TOWNSEND DENIS	
GIBSON CHRIS	PETTERSSON LARS	TSHIKOLOVETS VADIM	
GODDARD DAVID	PLOWMAN FRANCIS	ULMAN NORBERT	
GOETHALS VALERIE	PLOWMANE DAVE	van DOG JOHANNES	
GREATOREX-DAVIES NICK	POOT ROB	van HANS OOSTERHOUT	
GUILFOYLE A.	PRENTICE MIKE	van SWAAY CHRIS	

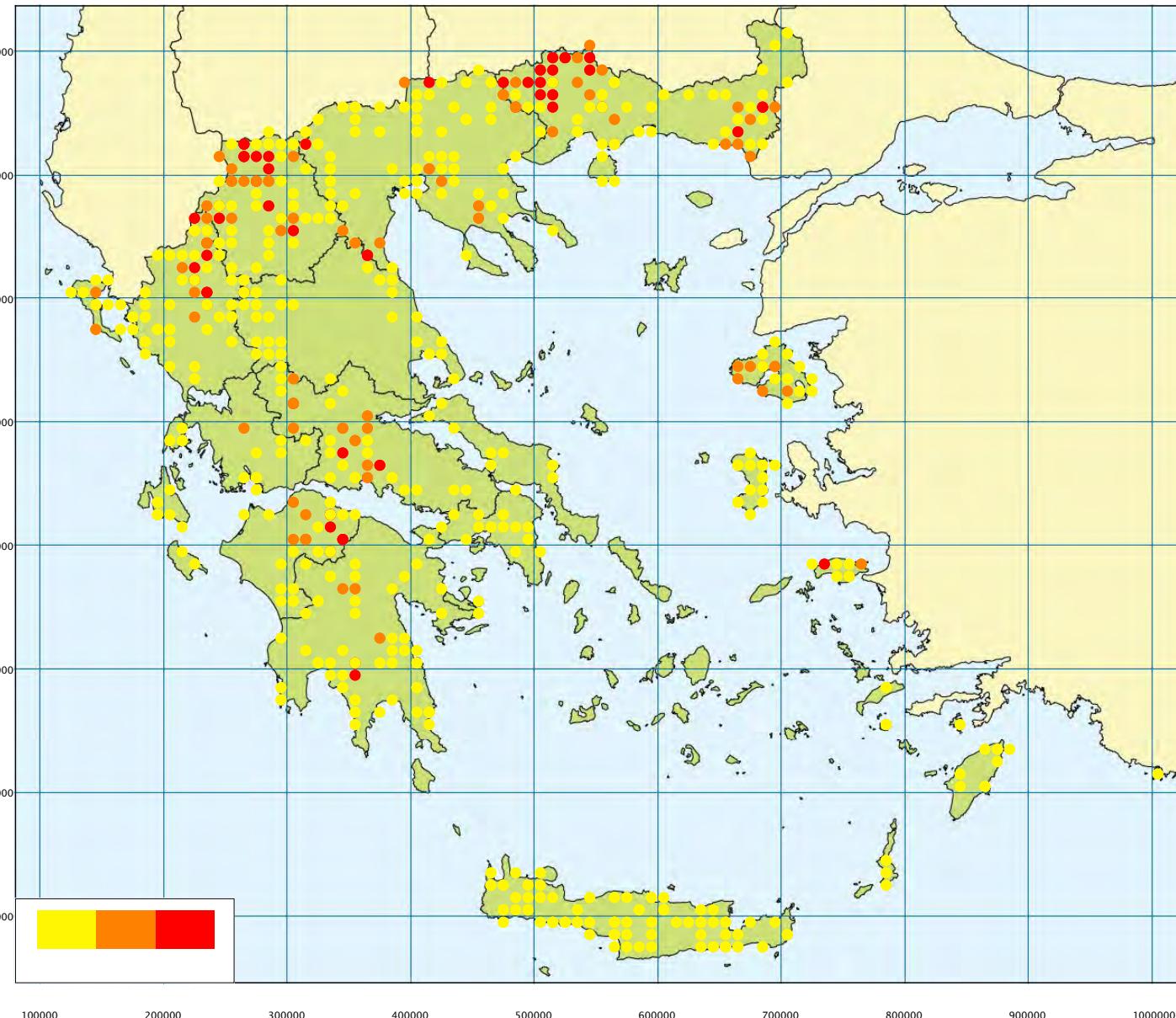


New Chart 4.15'

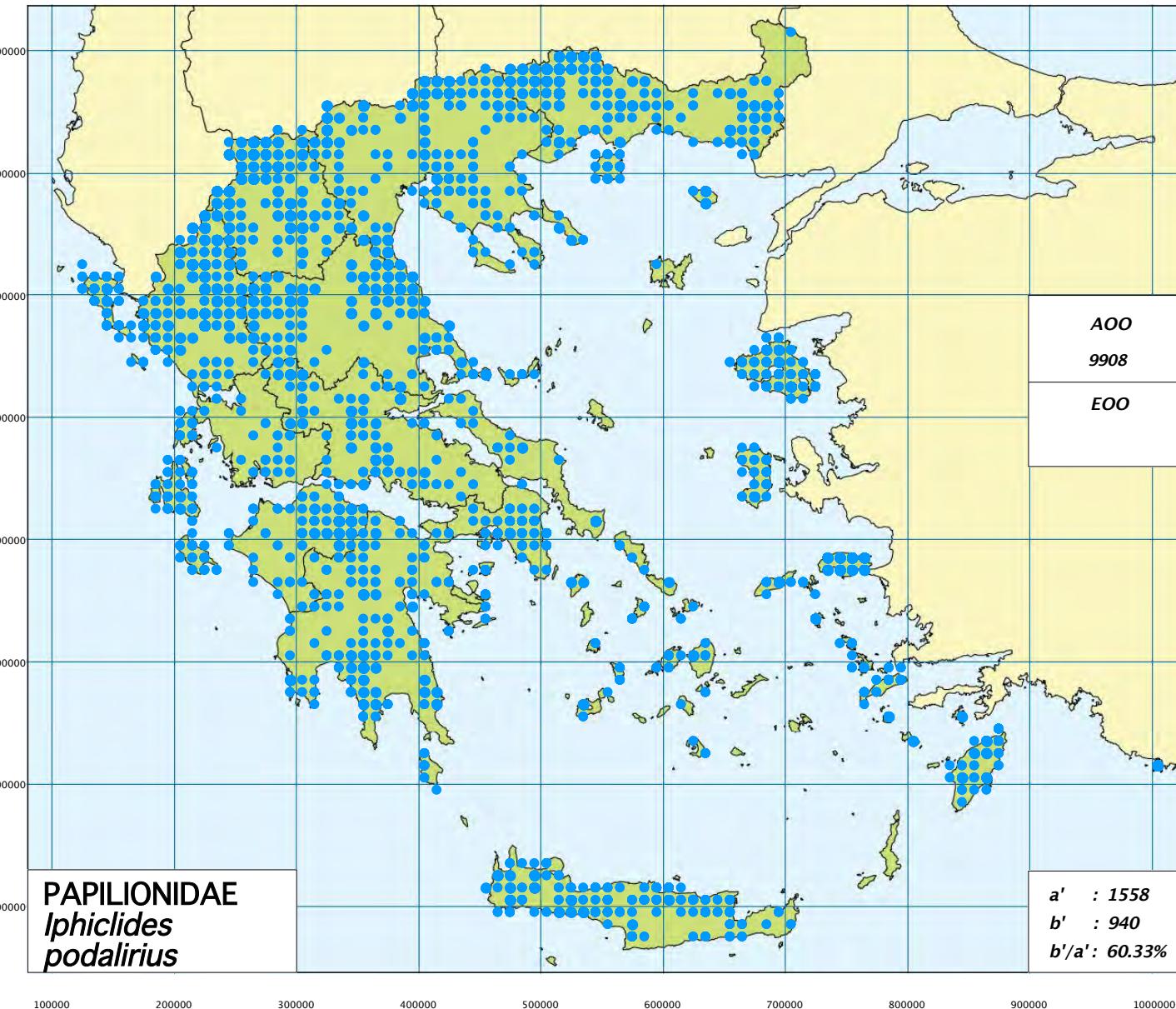
(update 2020 version in GGRS87)
Total number of species for all
1558 localities 10X10 km

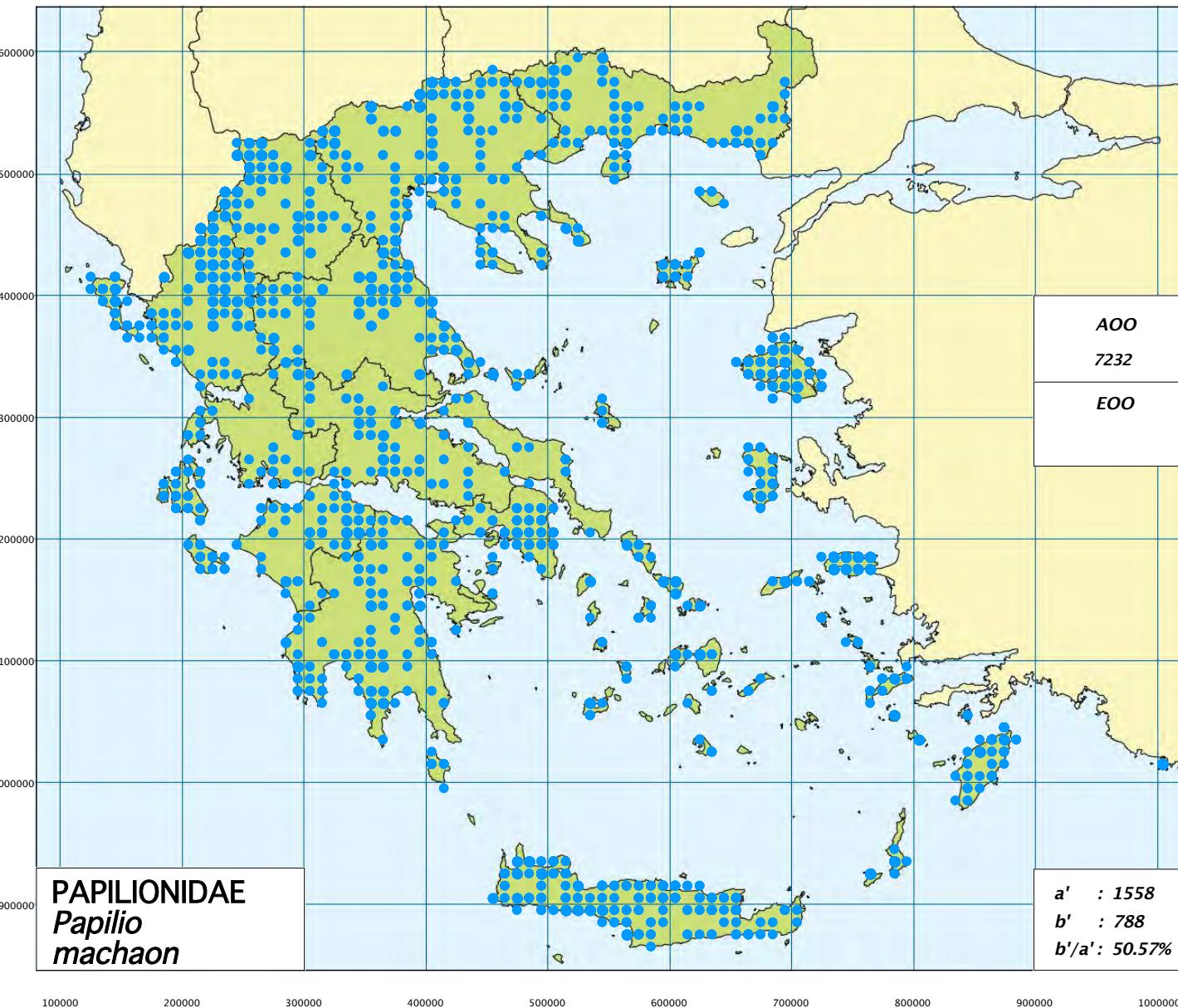
Νέος Χάρτης 4.15'

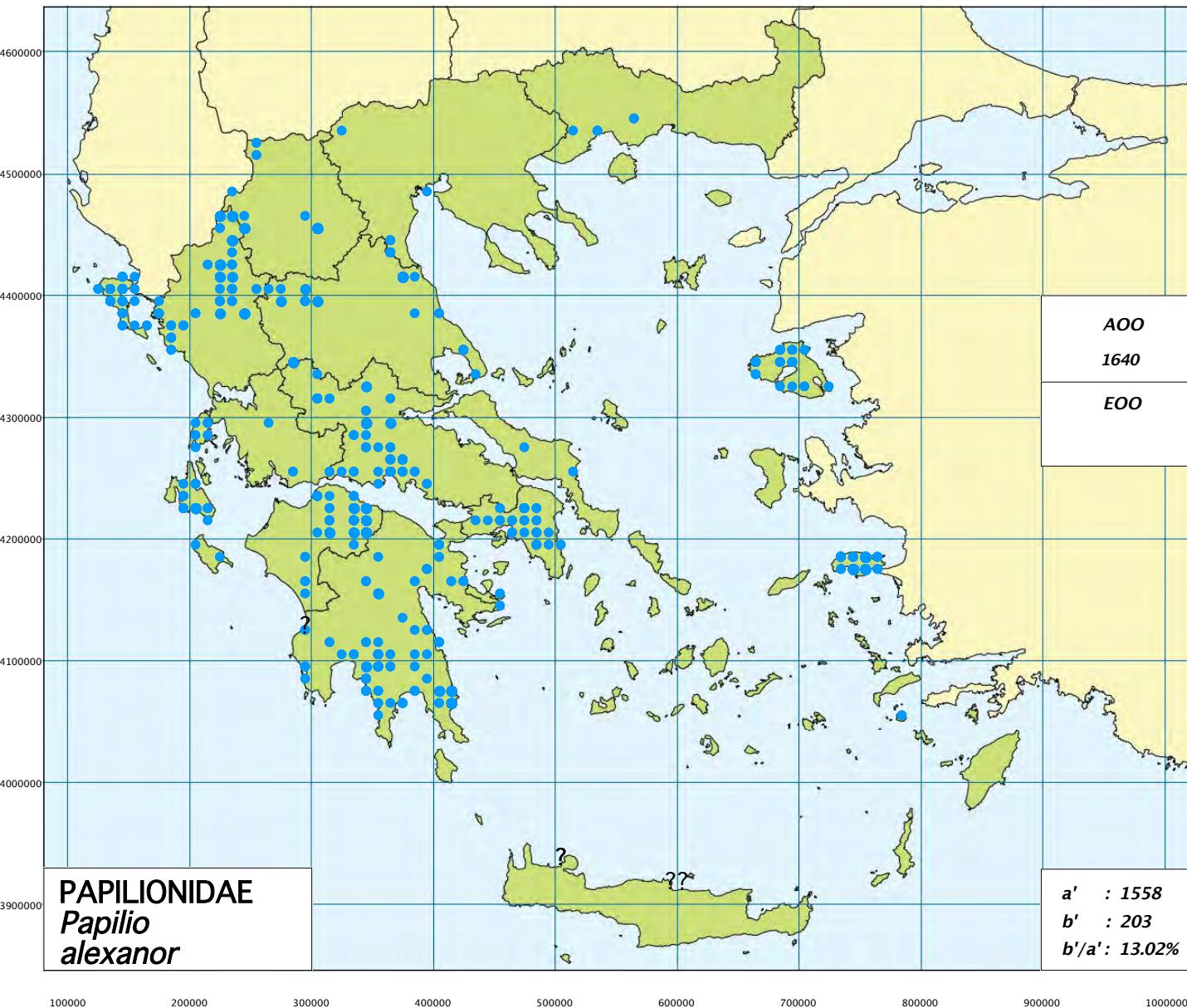
(επικαιροποίηση 2020 με
συντεταγμένες GGRS87) Συνολικός
αριθμός των ειδών για όλες τις
1558 τοποθεσίες 10X10 km

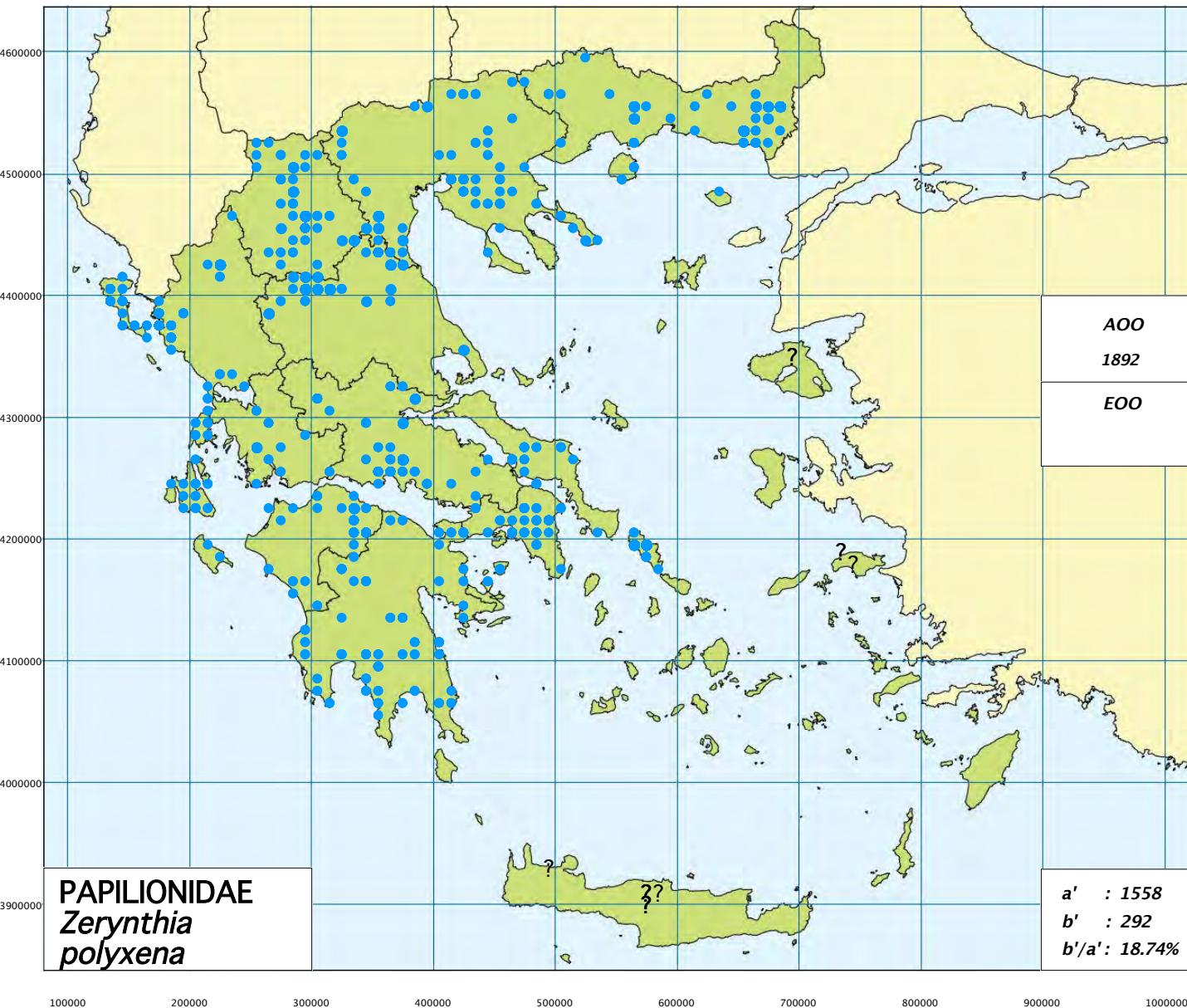


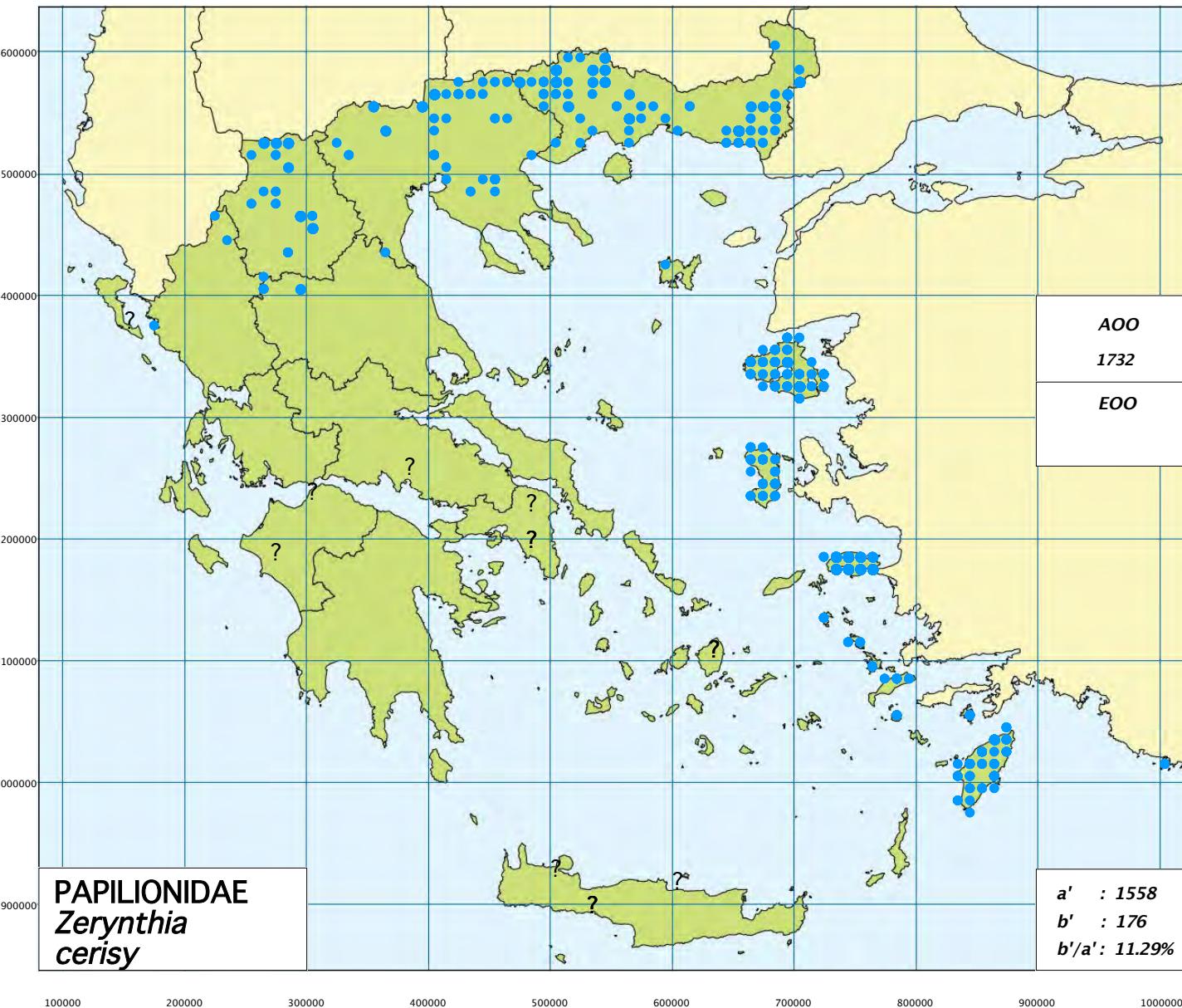
New Chart 4.16'
 (update 2020 version in GGRS87)
 Important butterfly areas in
 Greece
Νέος Χάρτης 4.16'
 (επικαιροποίηση 2020 με
 συντεταγμένες GGRS87)
 Σημαντικές περιοχές για τις
 πεταλούδες της Ελλάδας



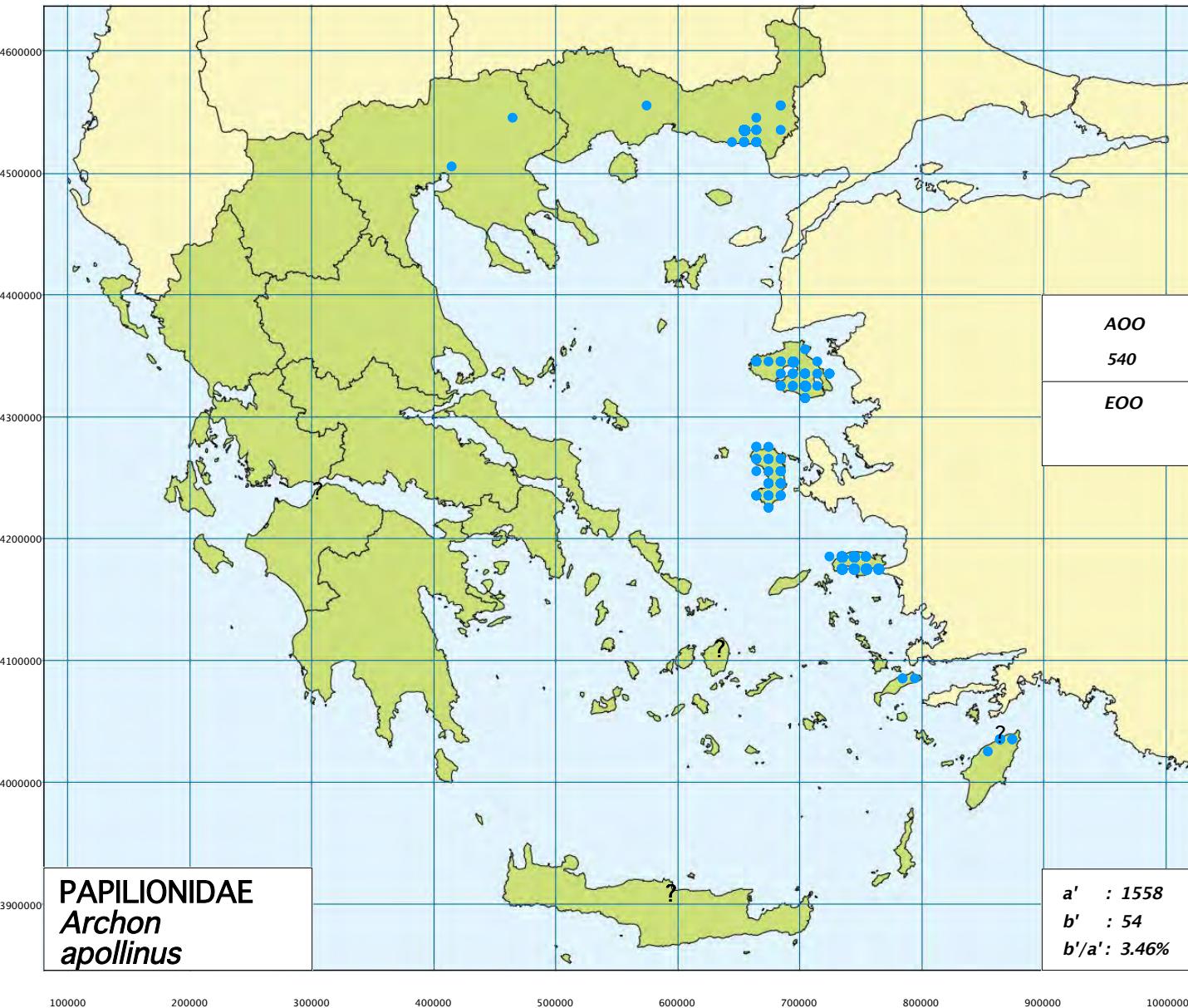


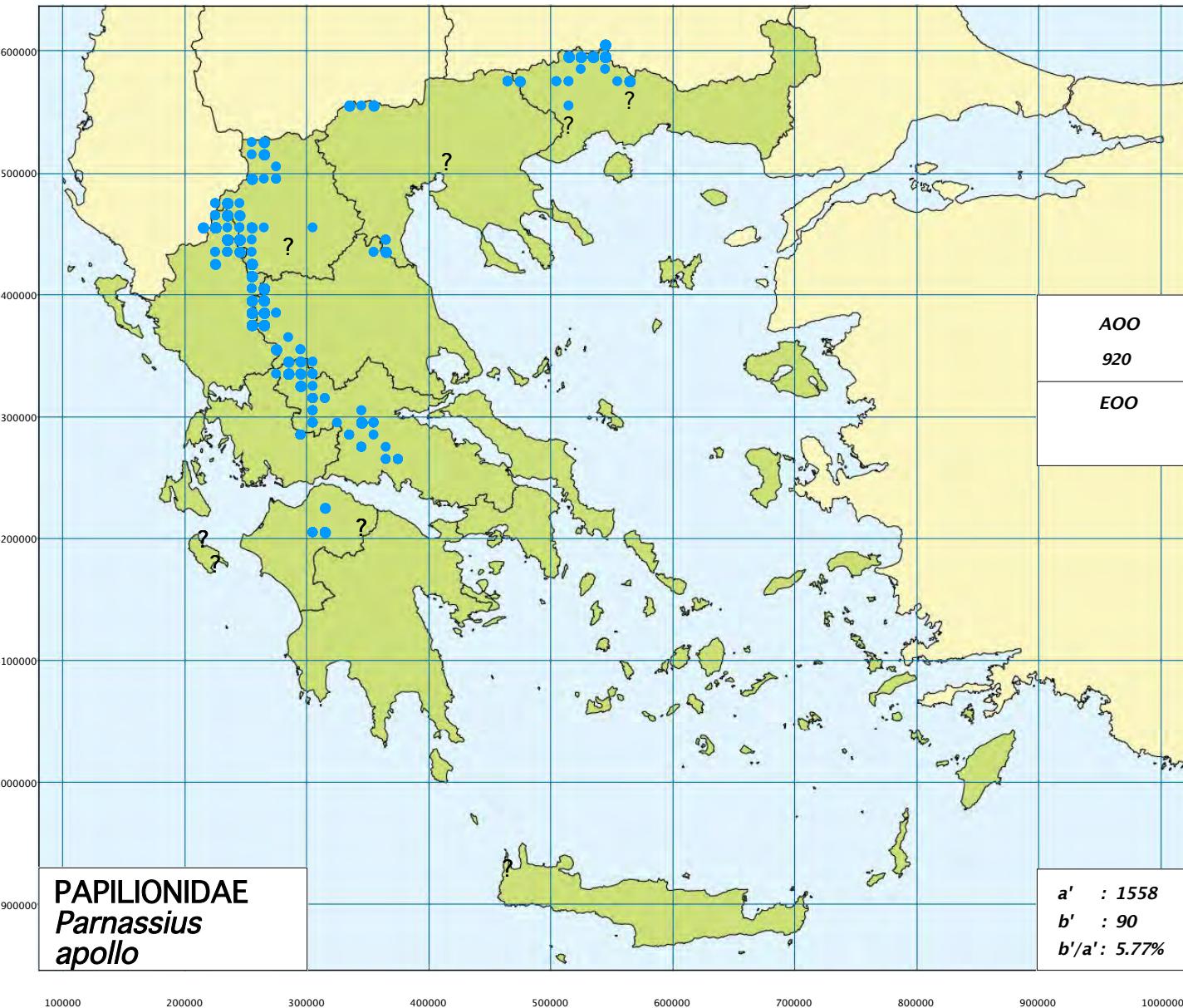


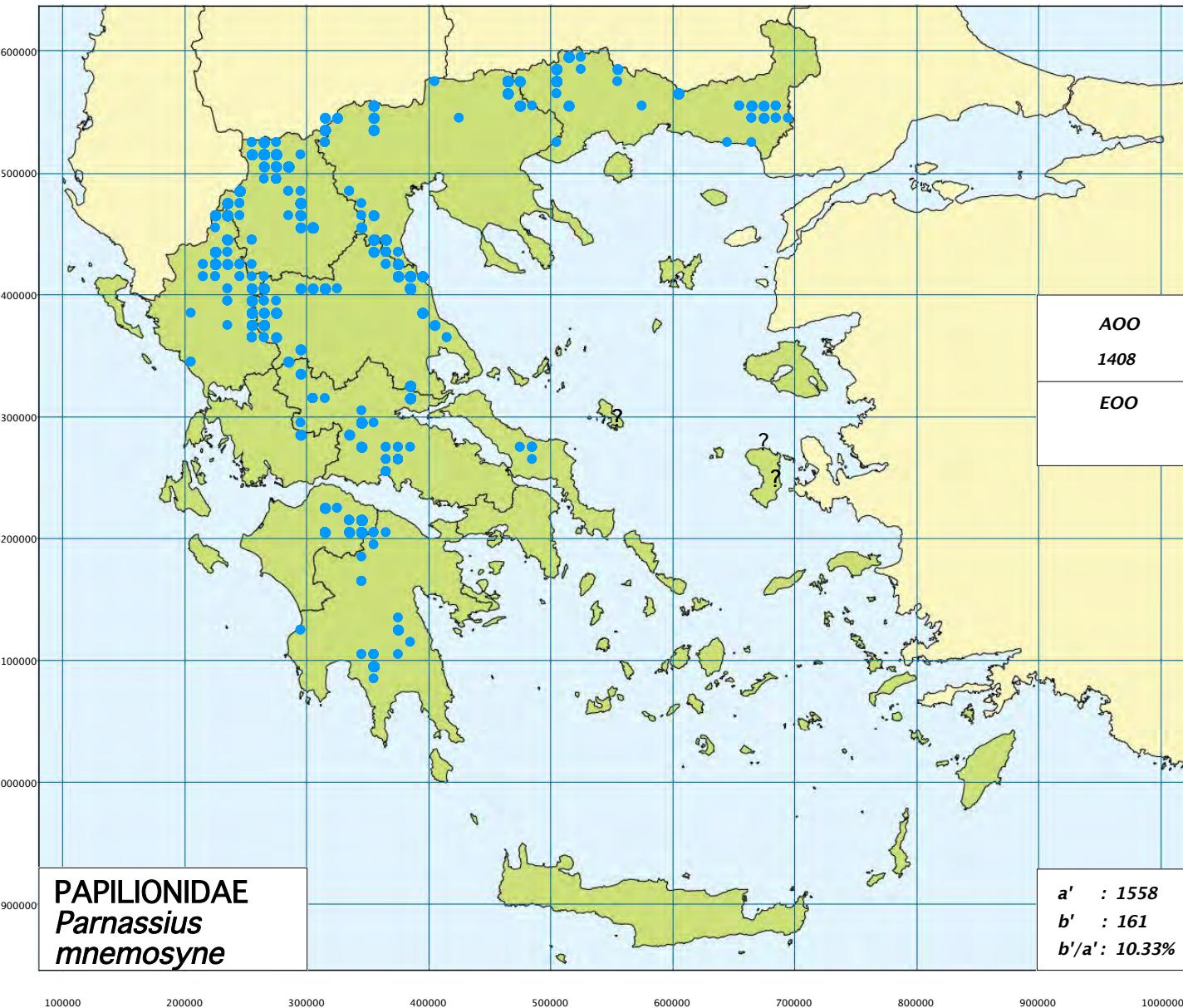


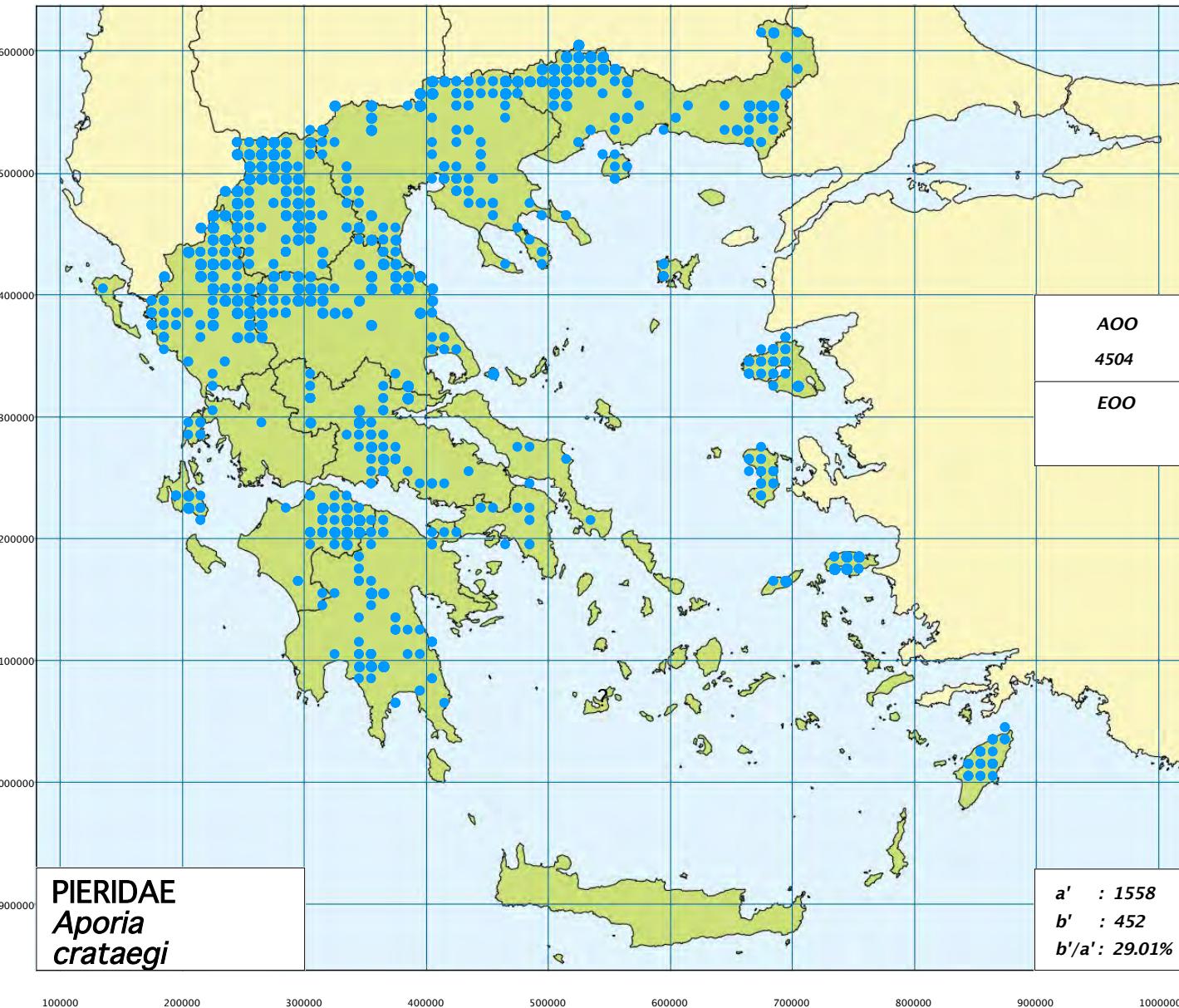


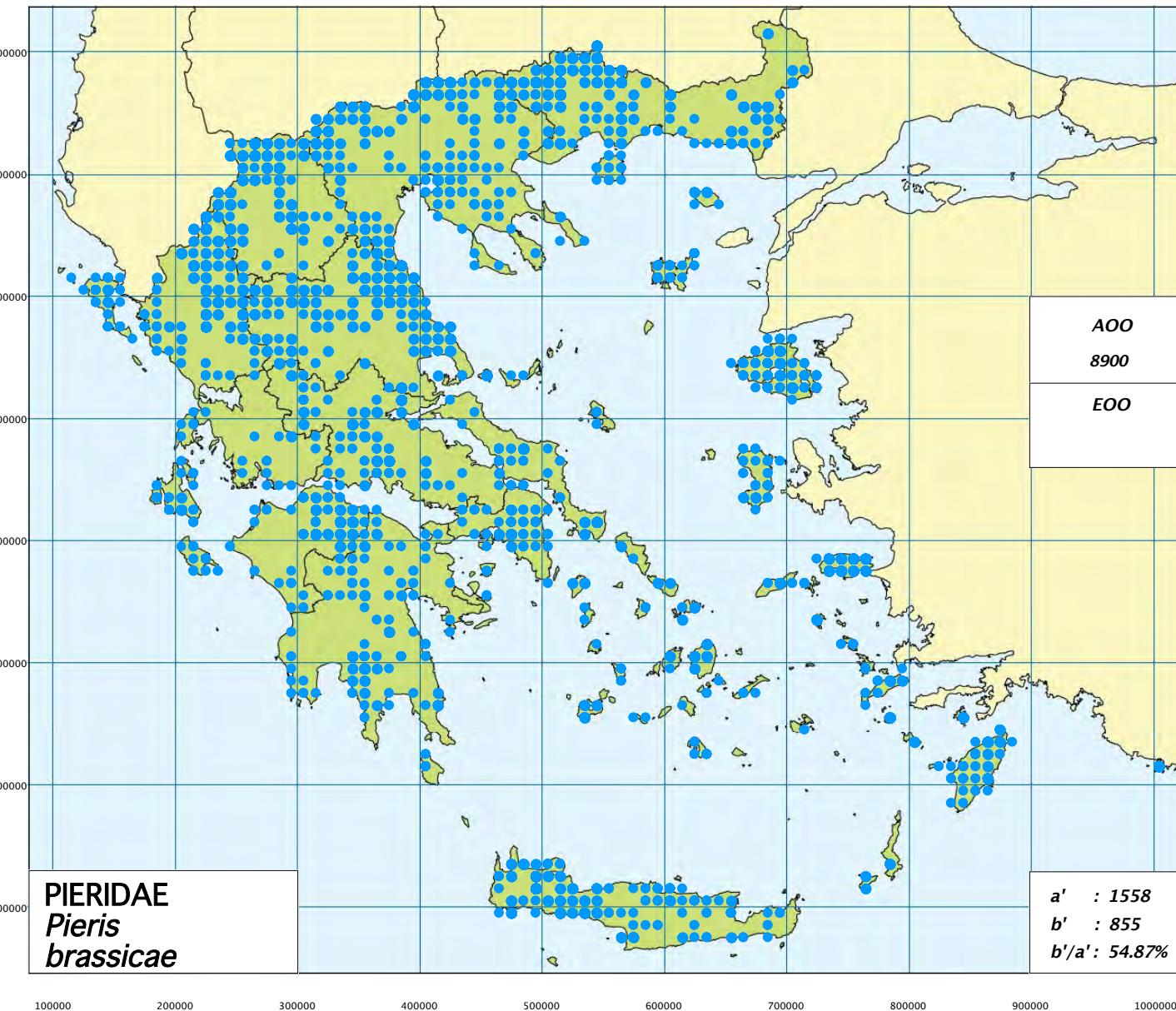


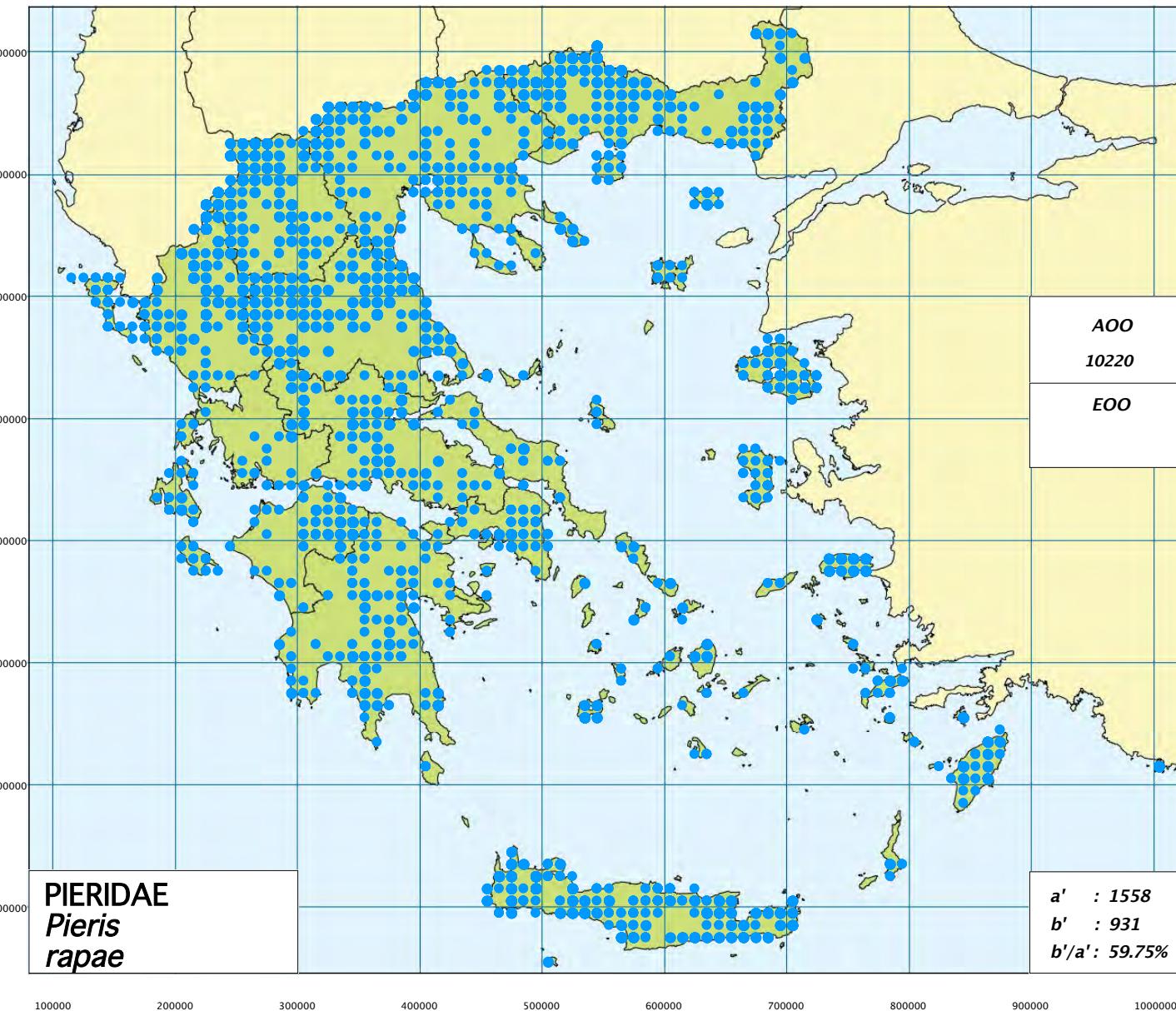


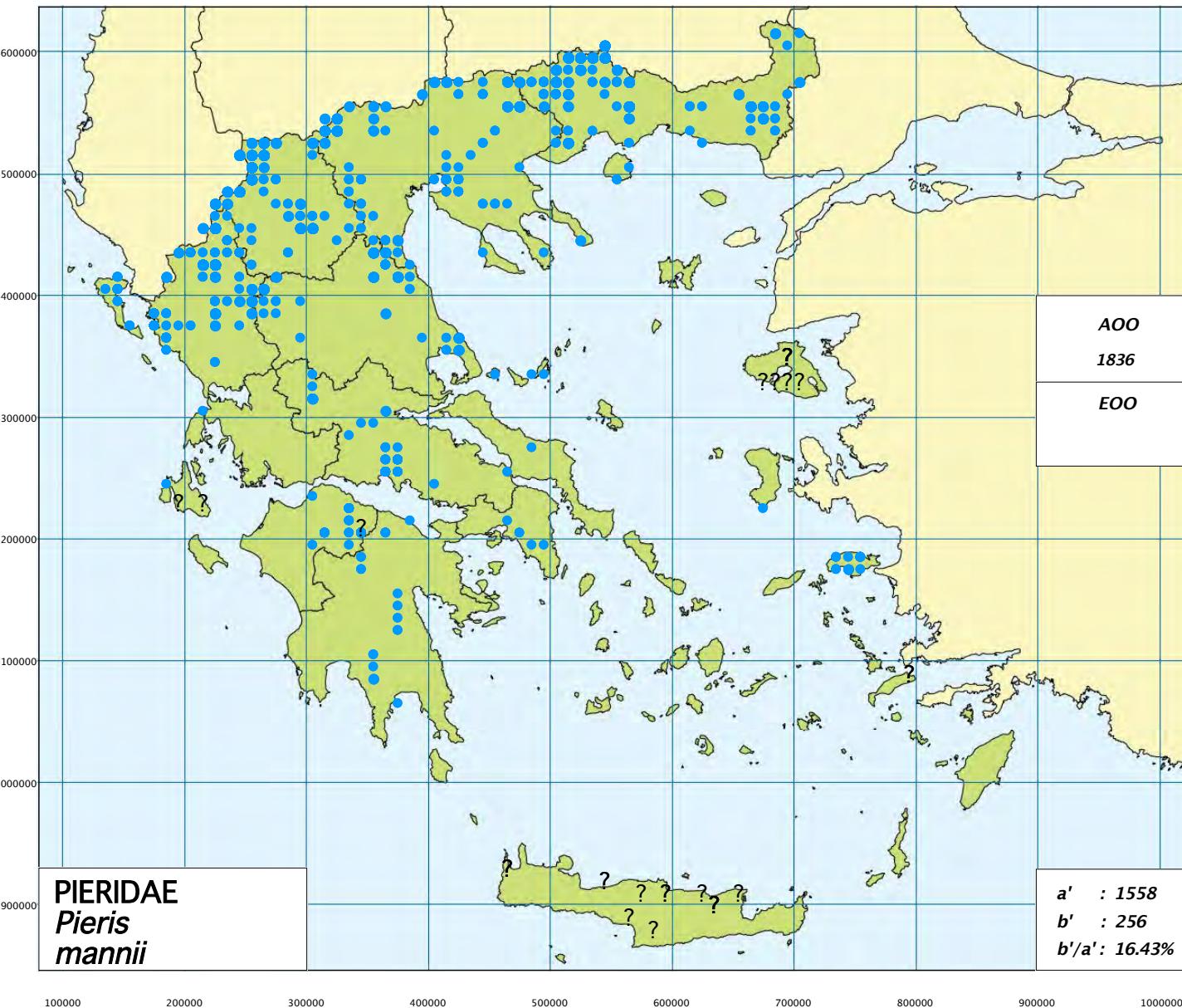


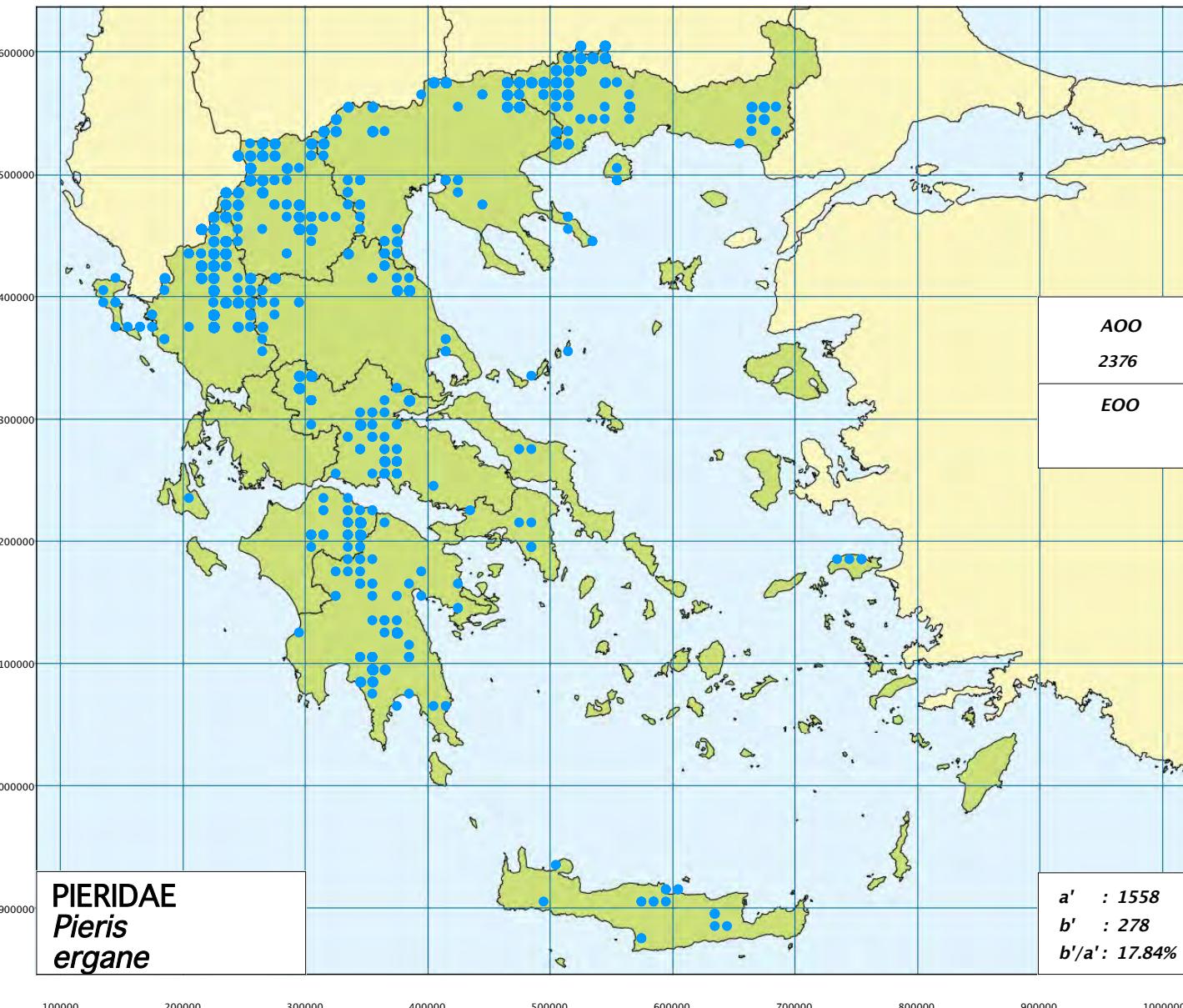


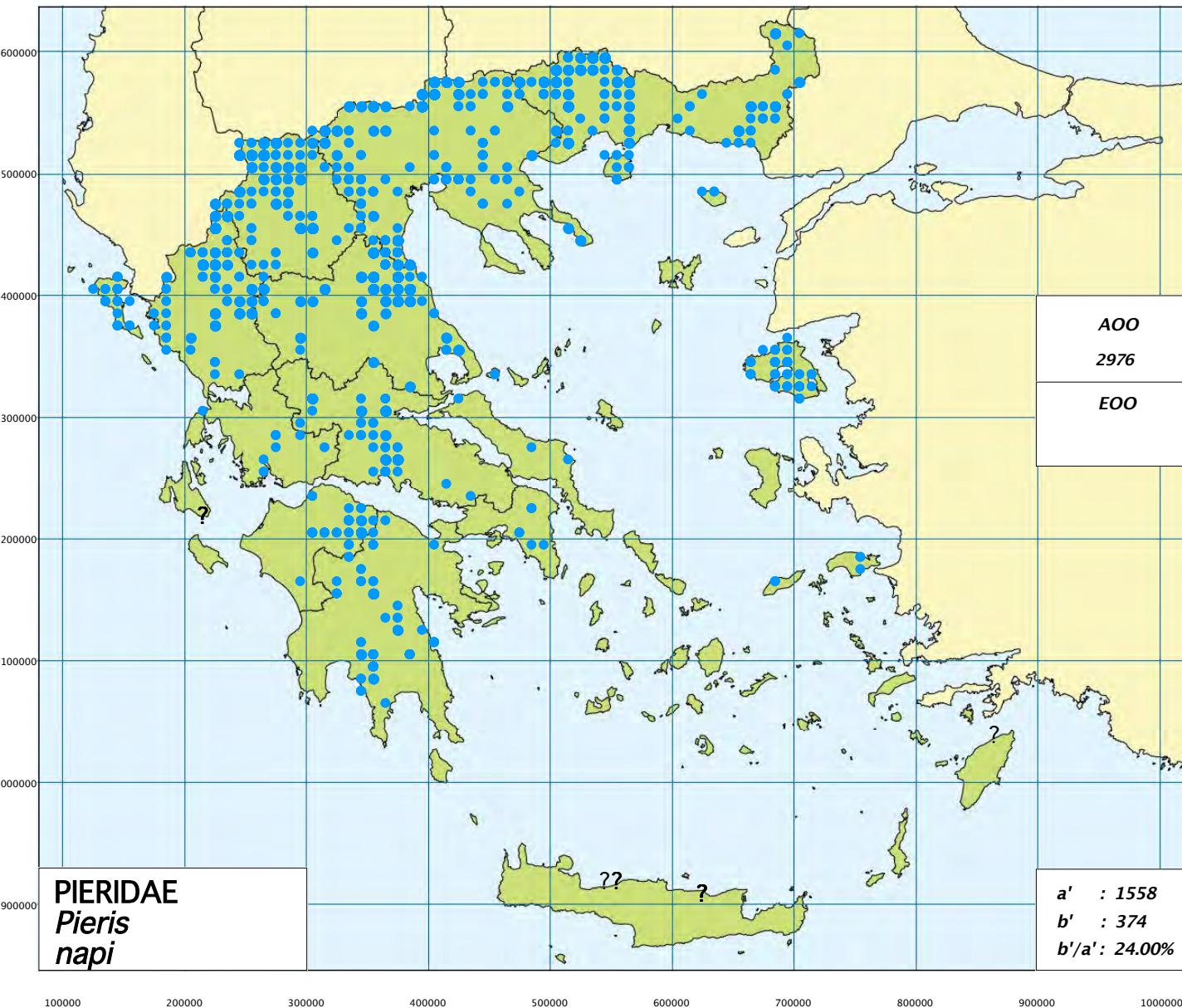


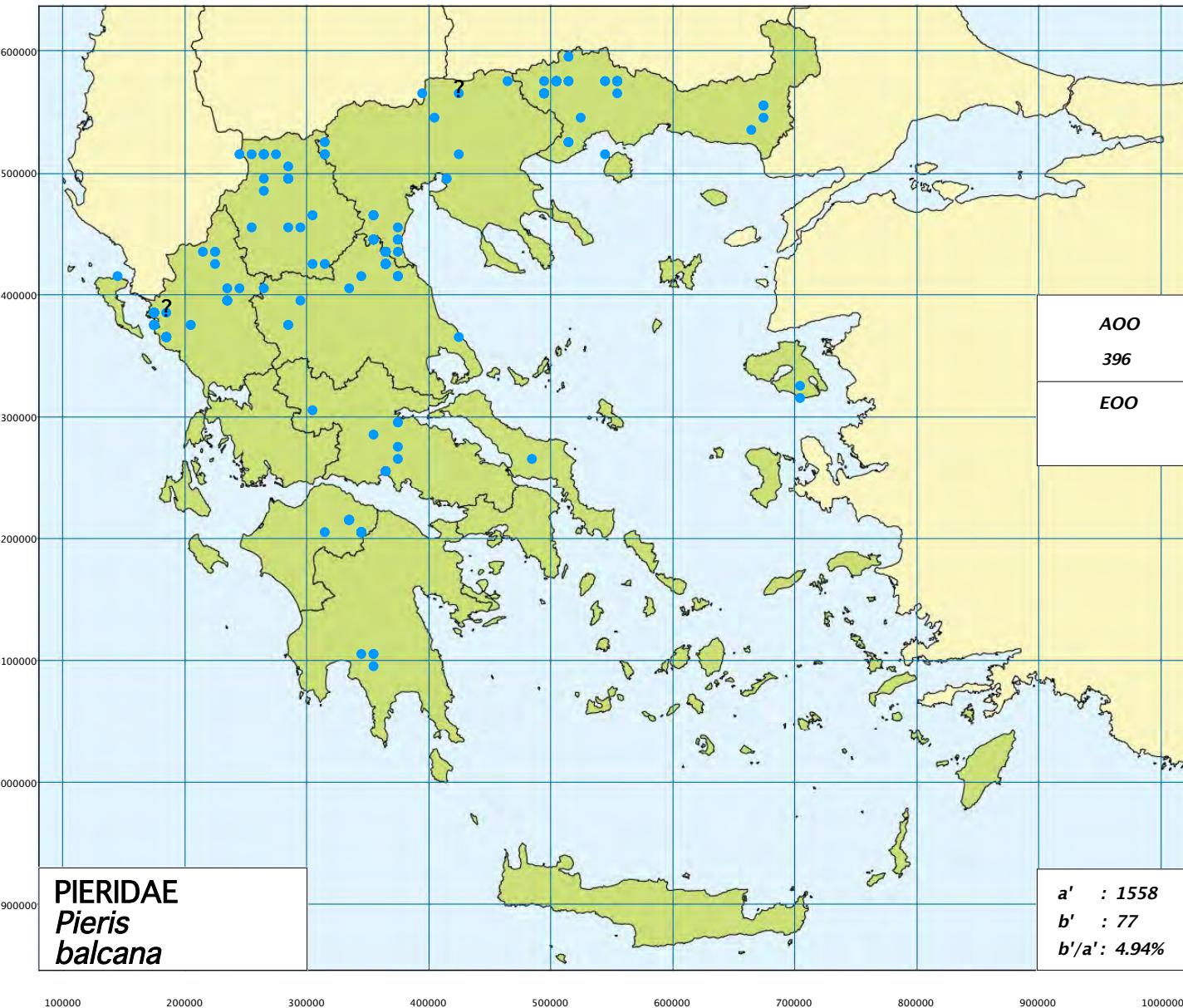


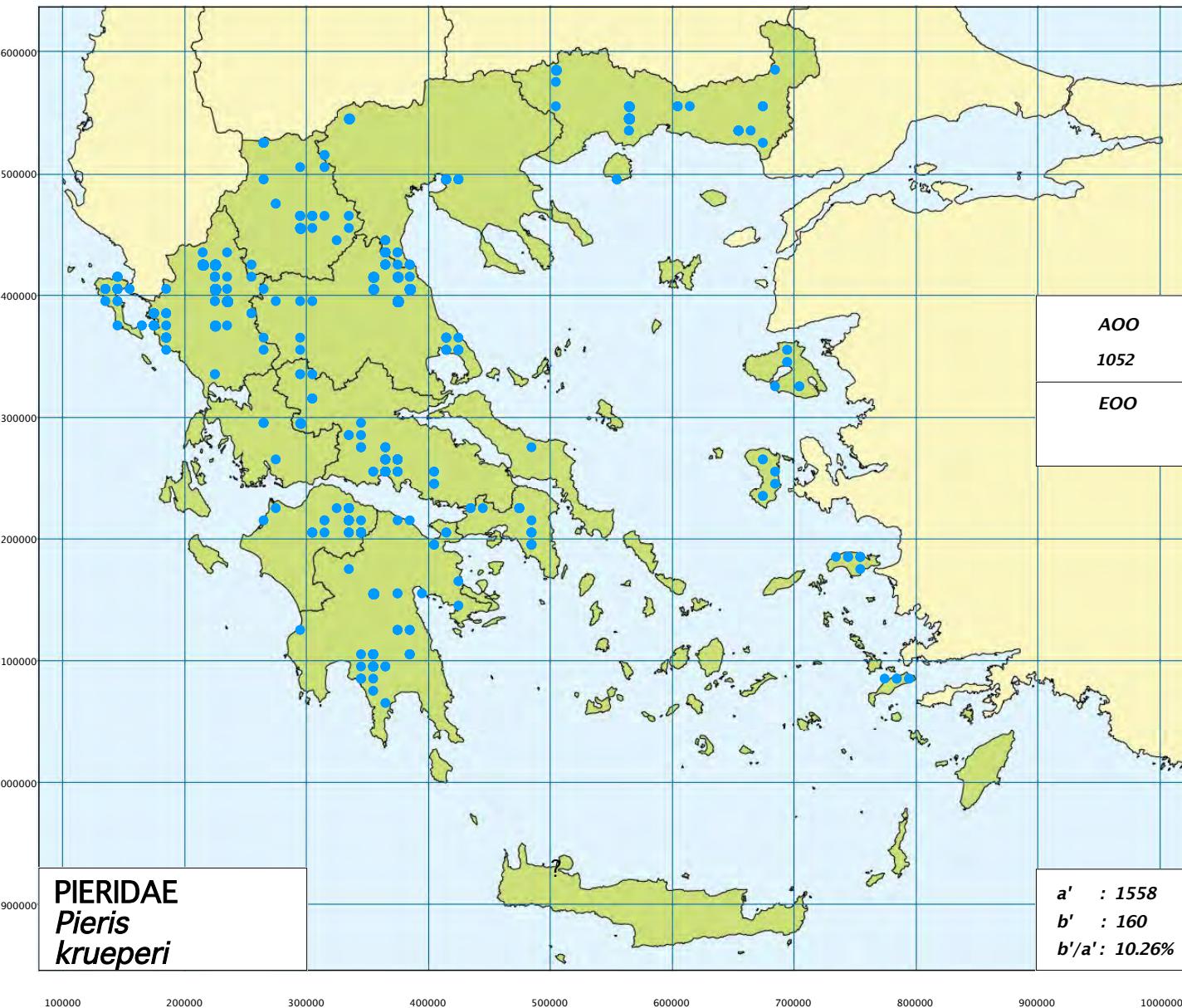


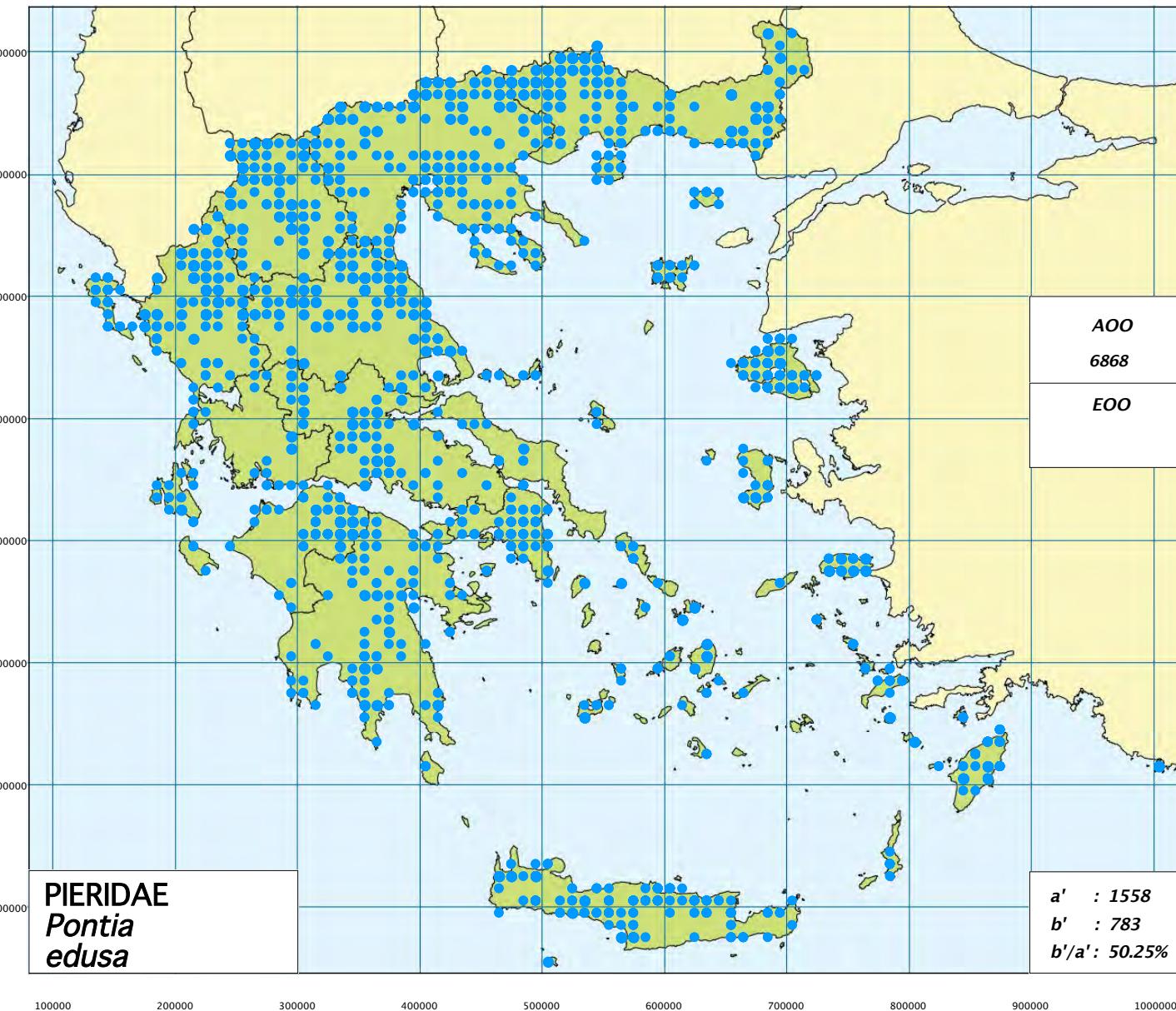


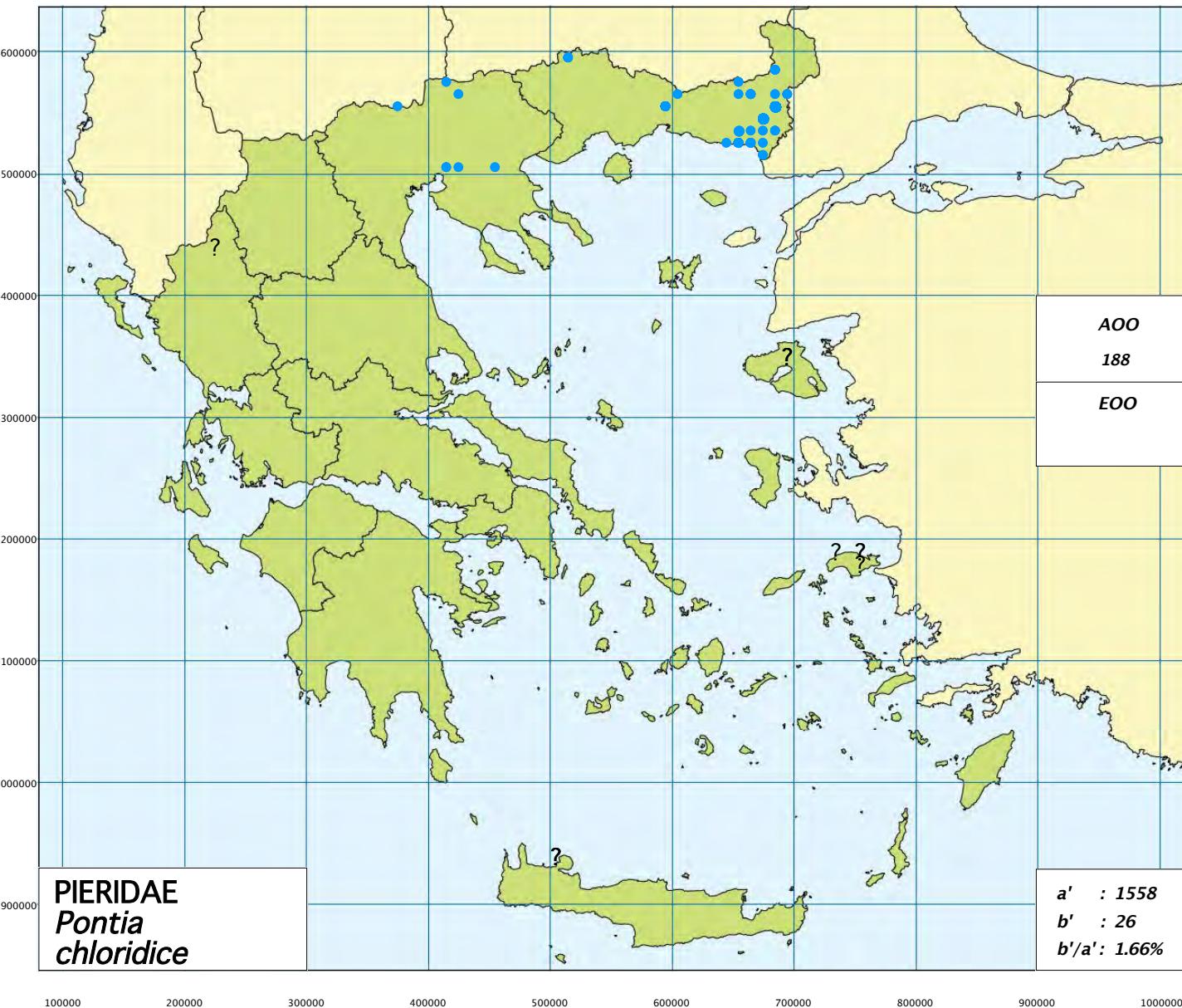


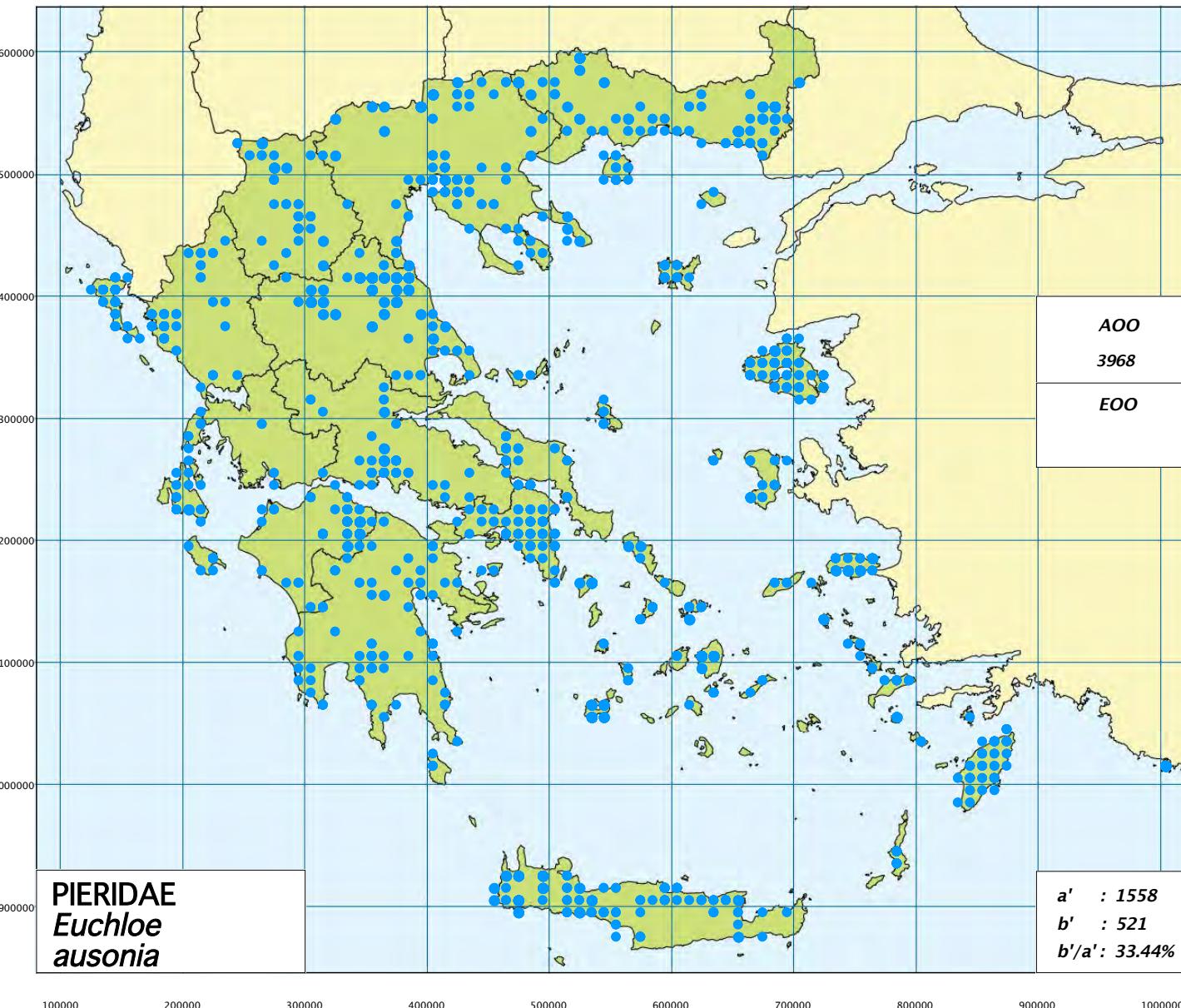


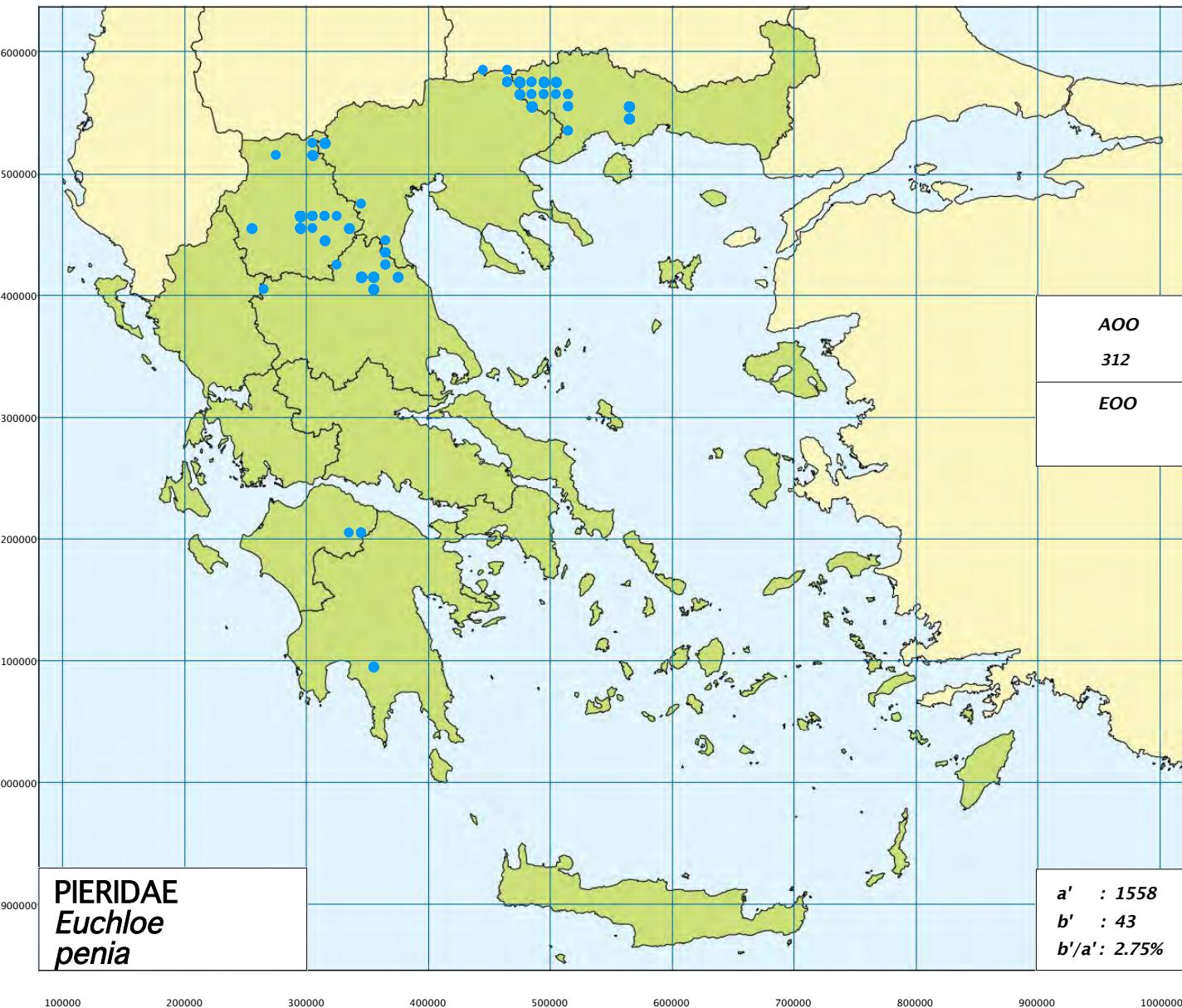


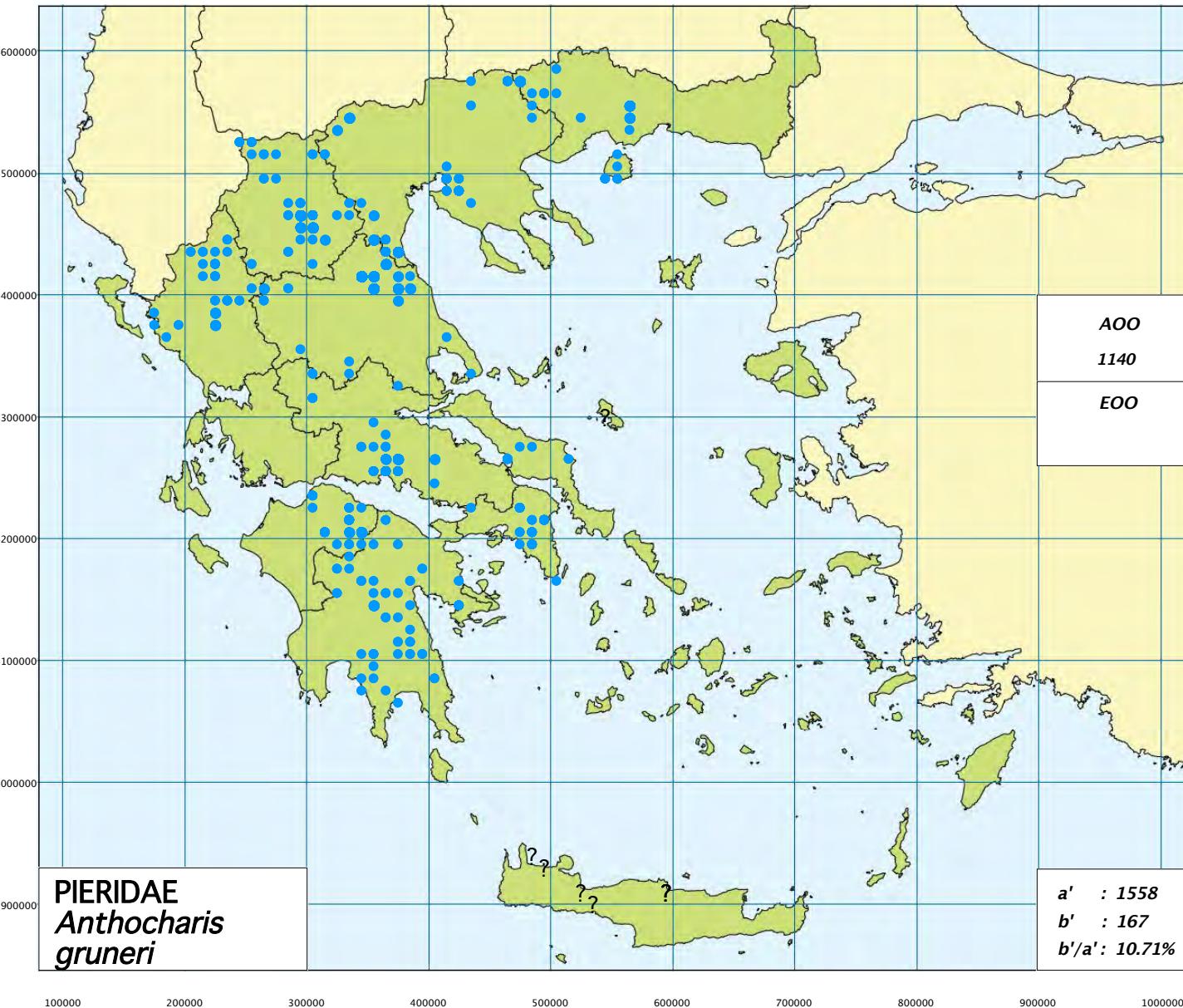


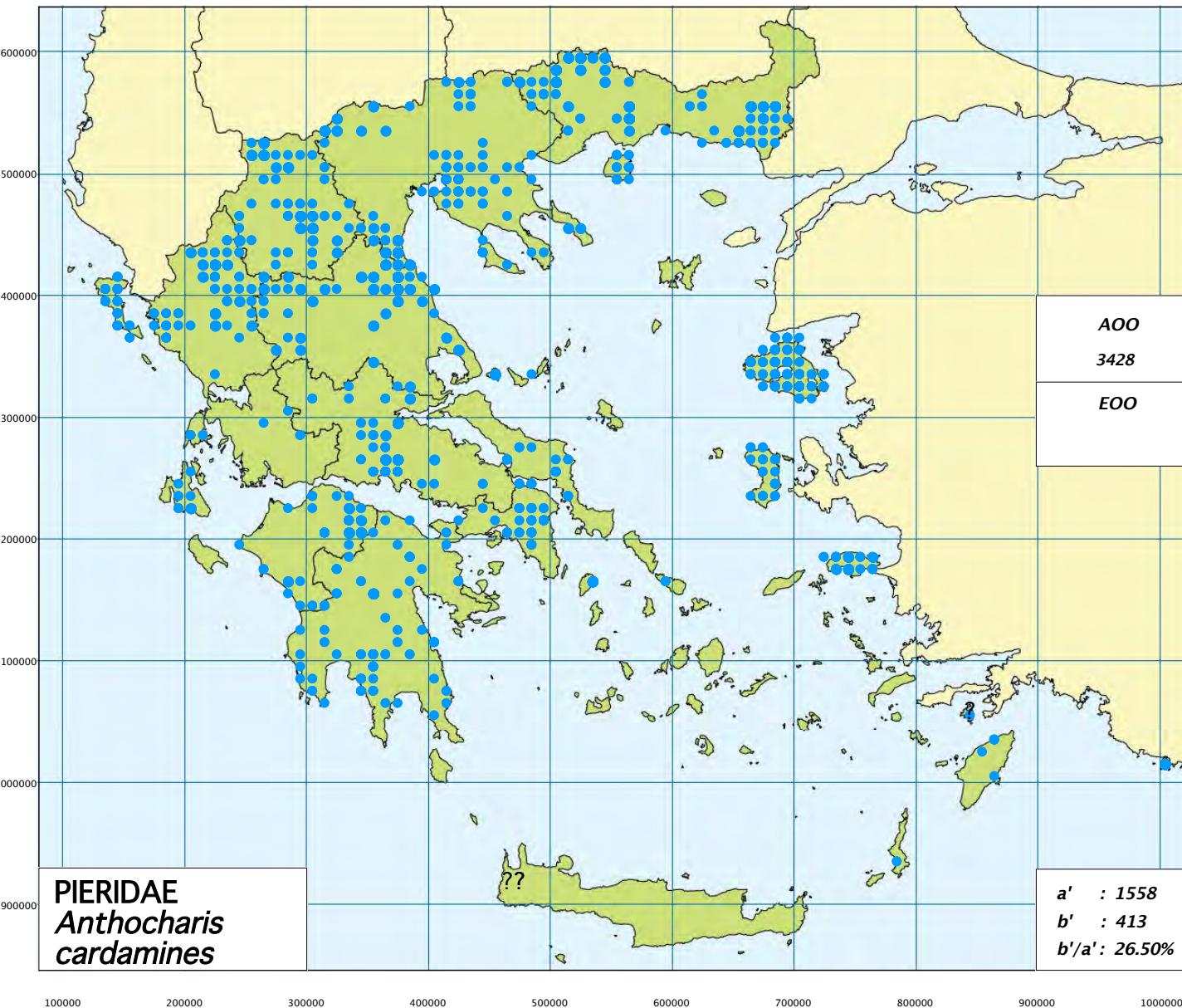


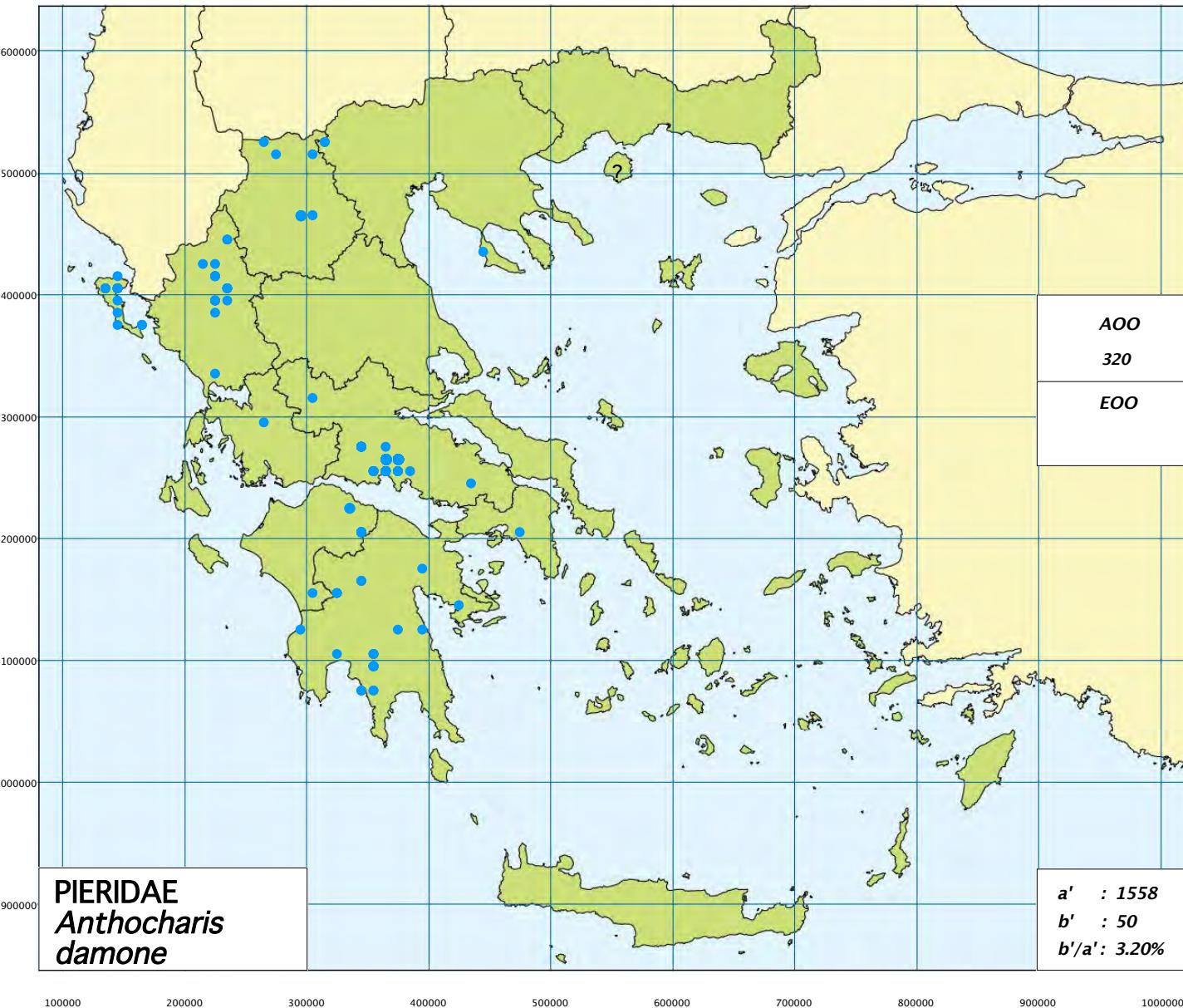


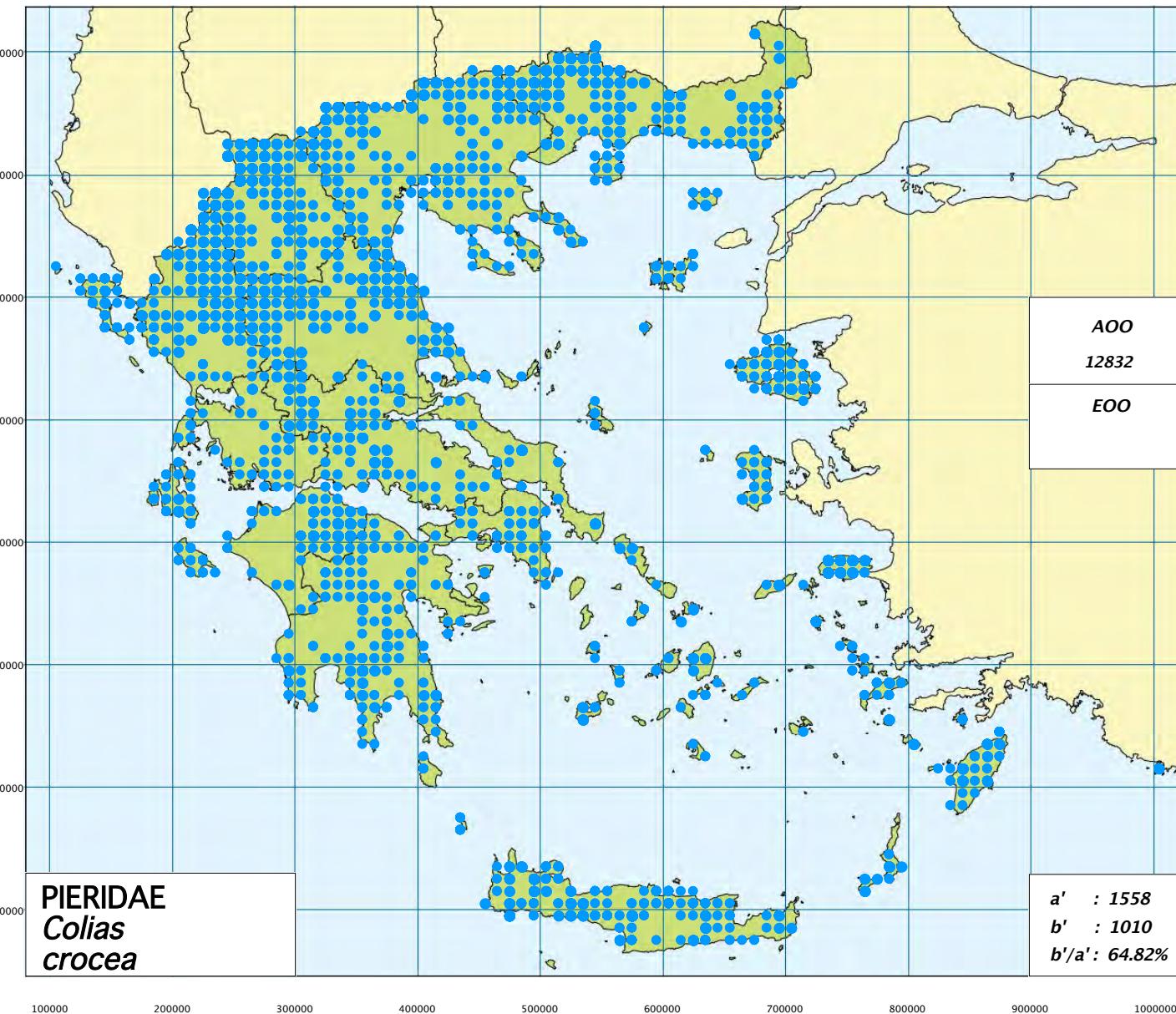


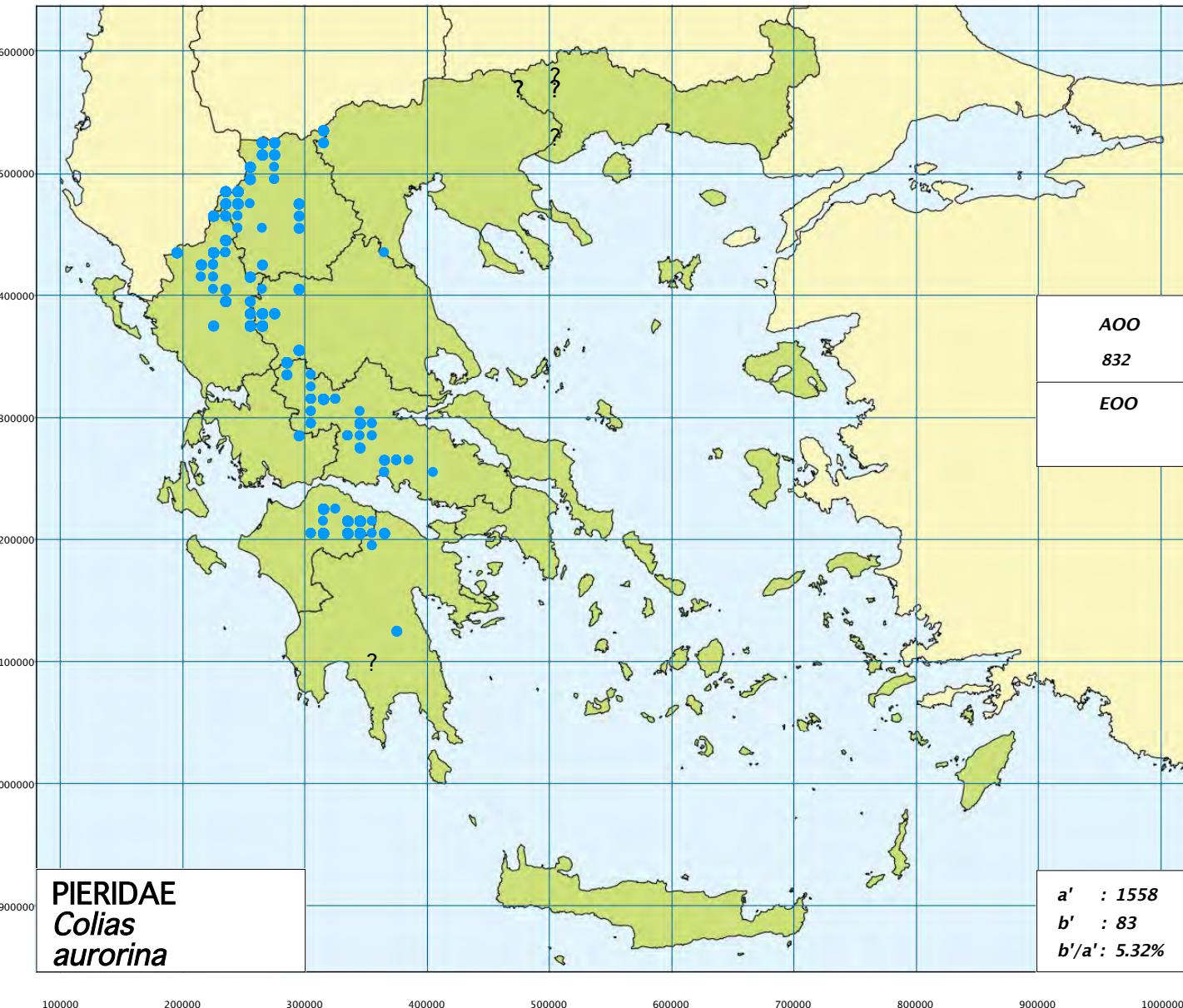


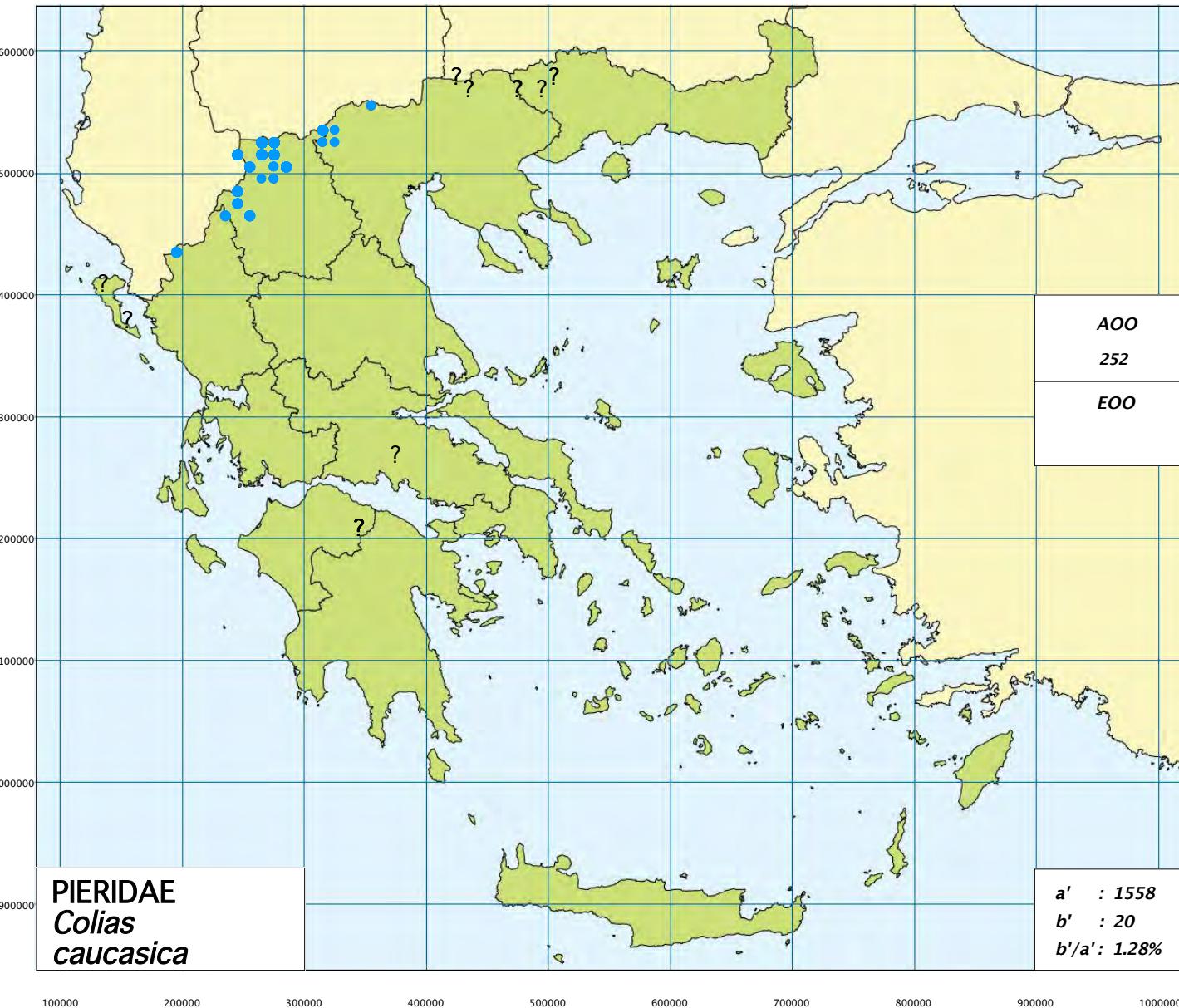


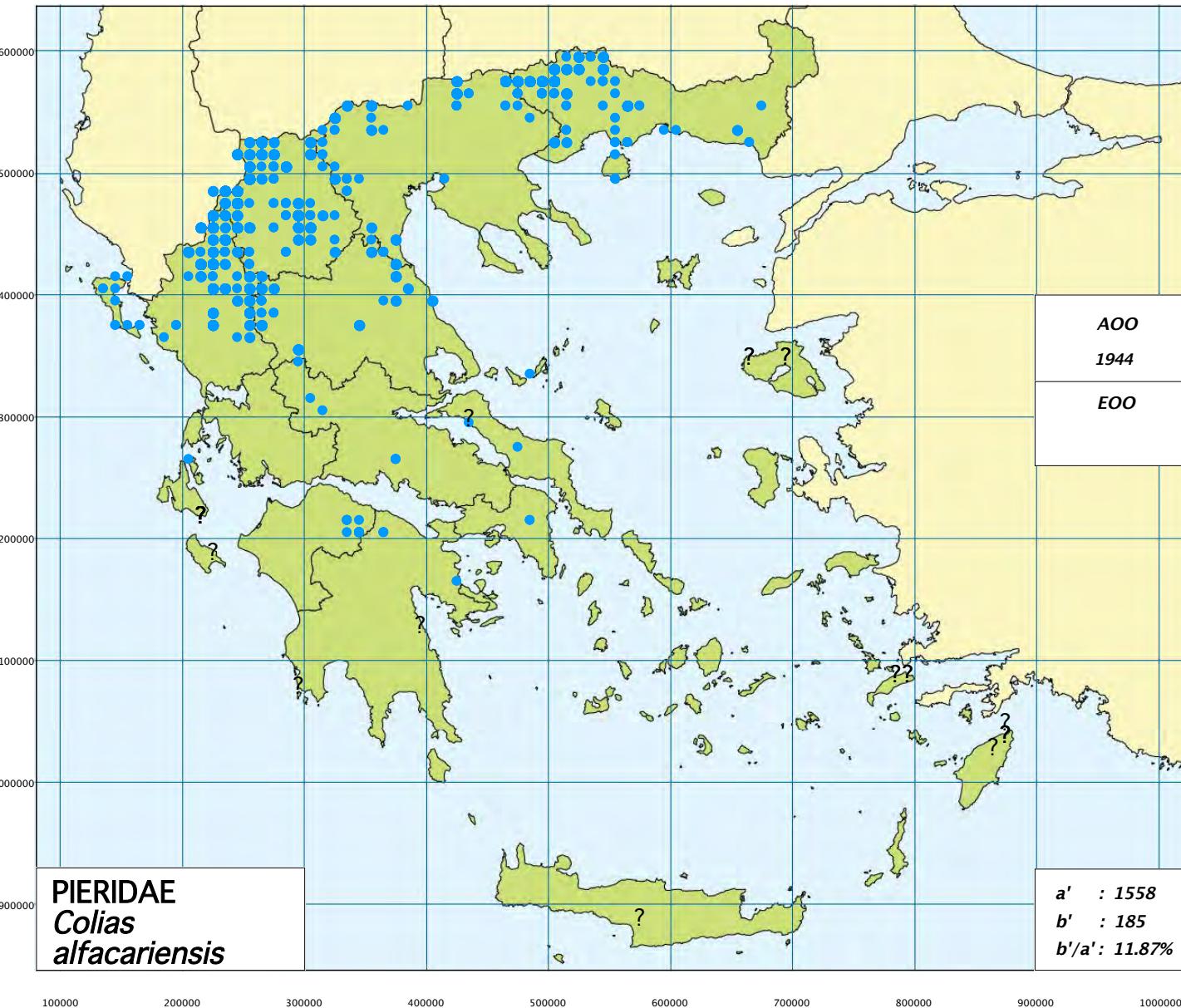


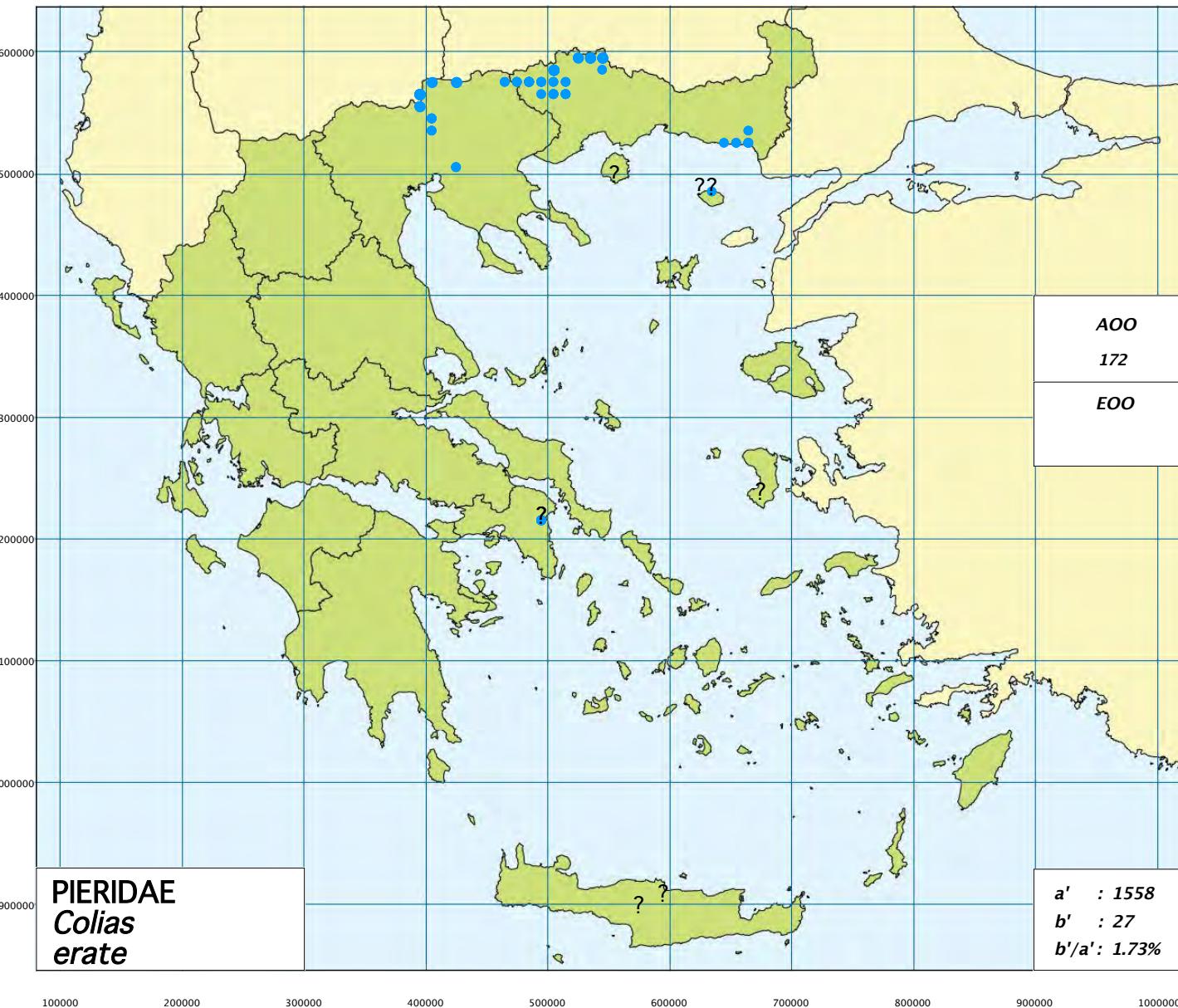


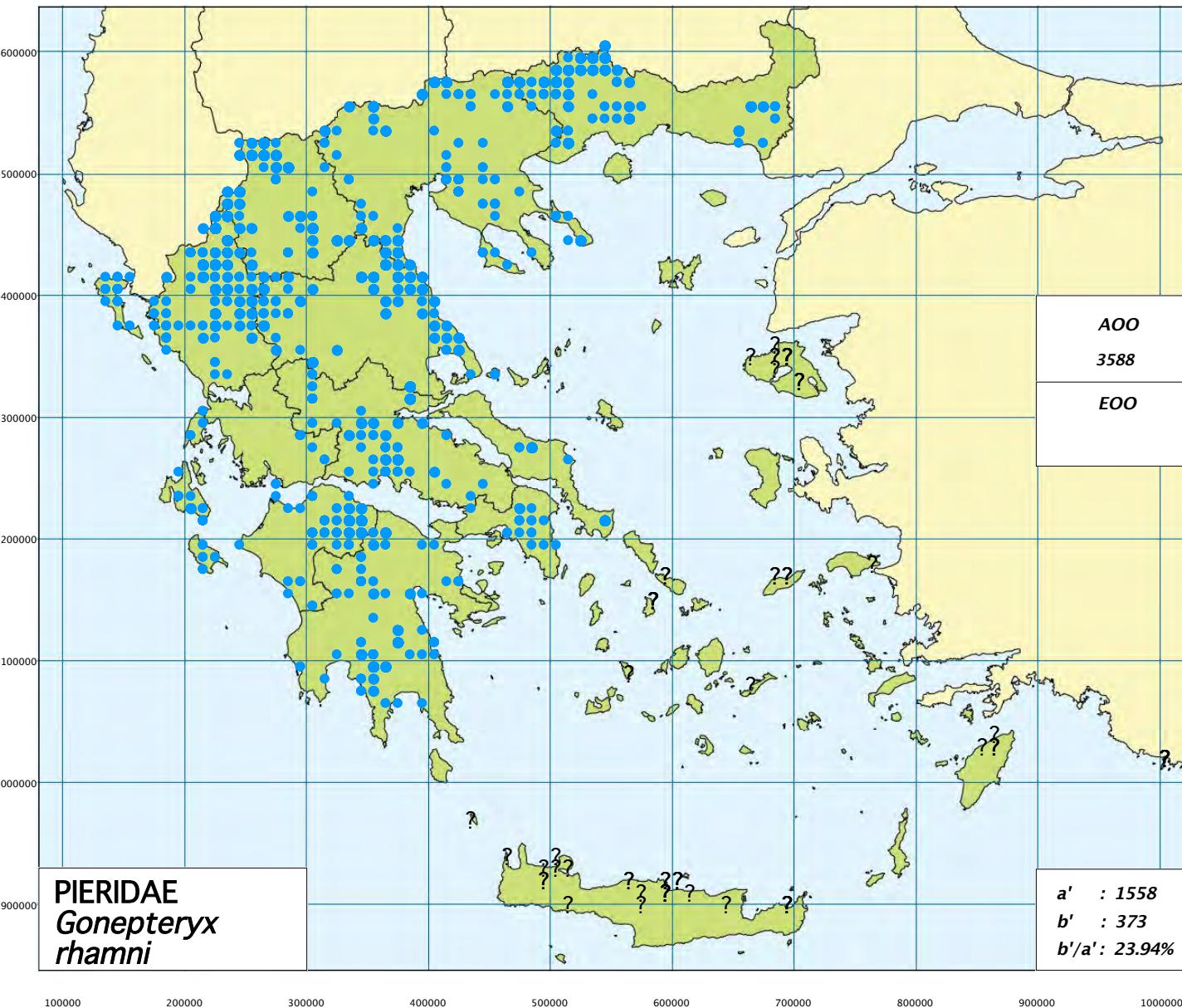


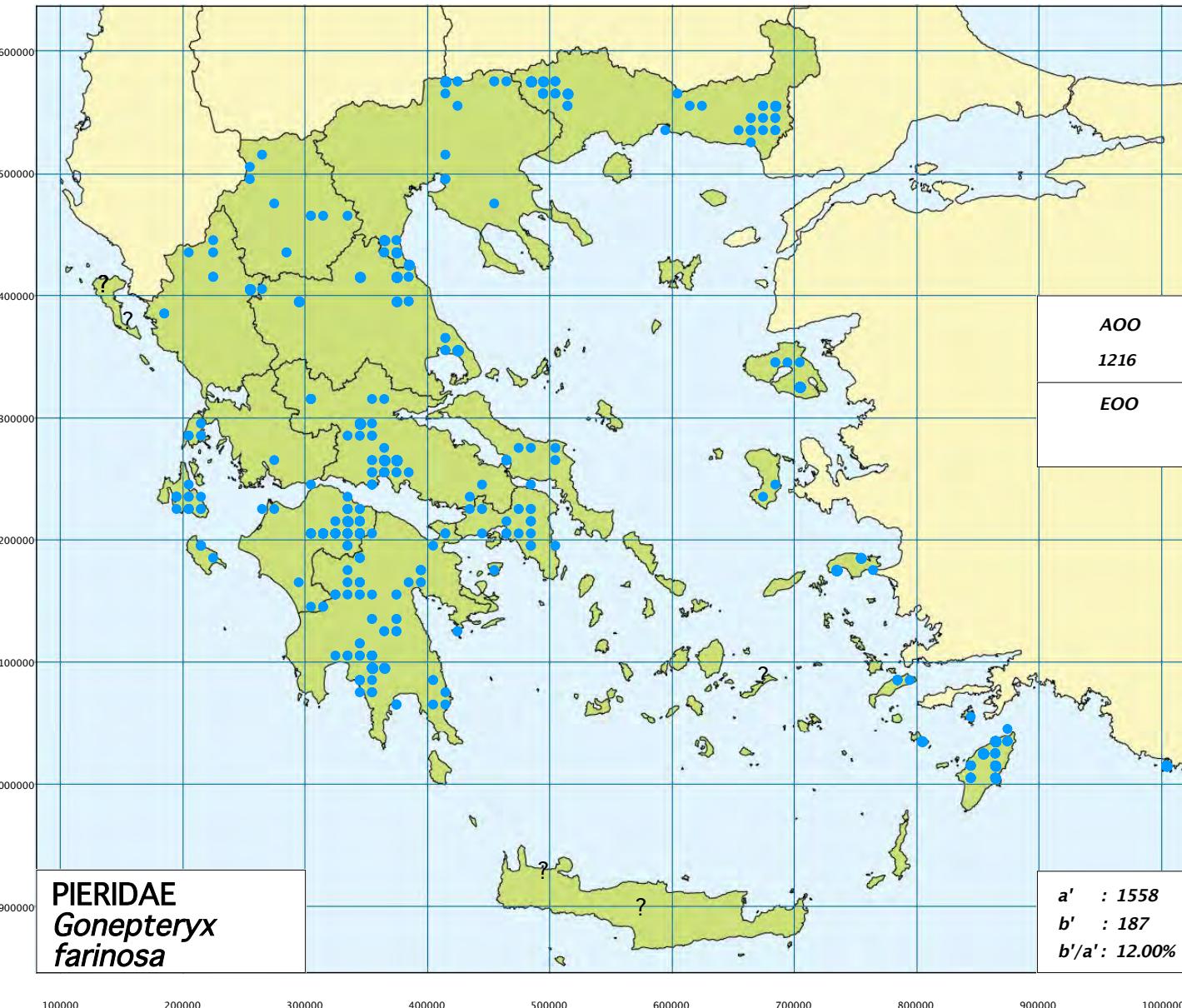


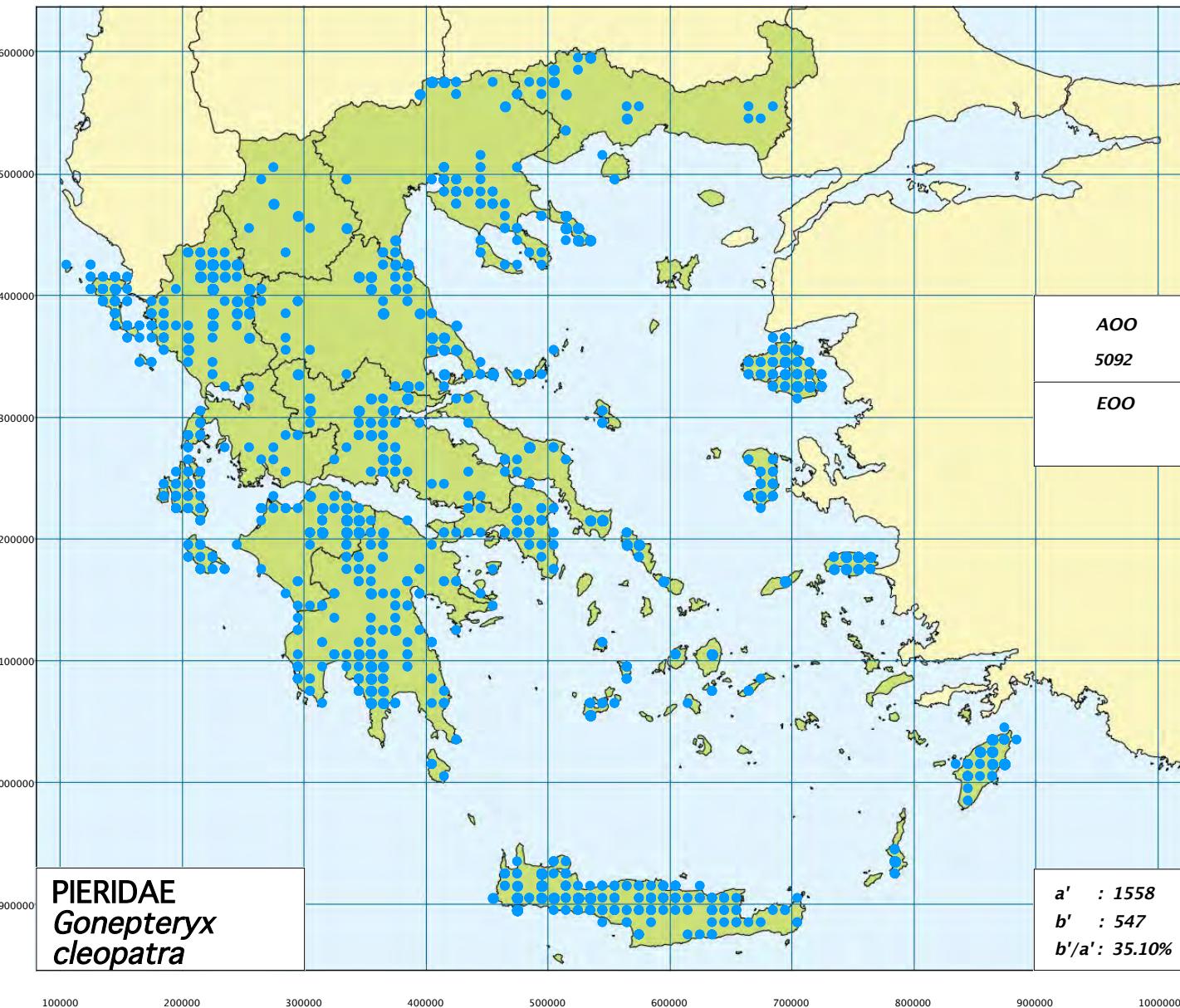


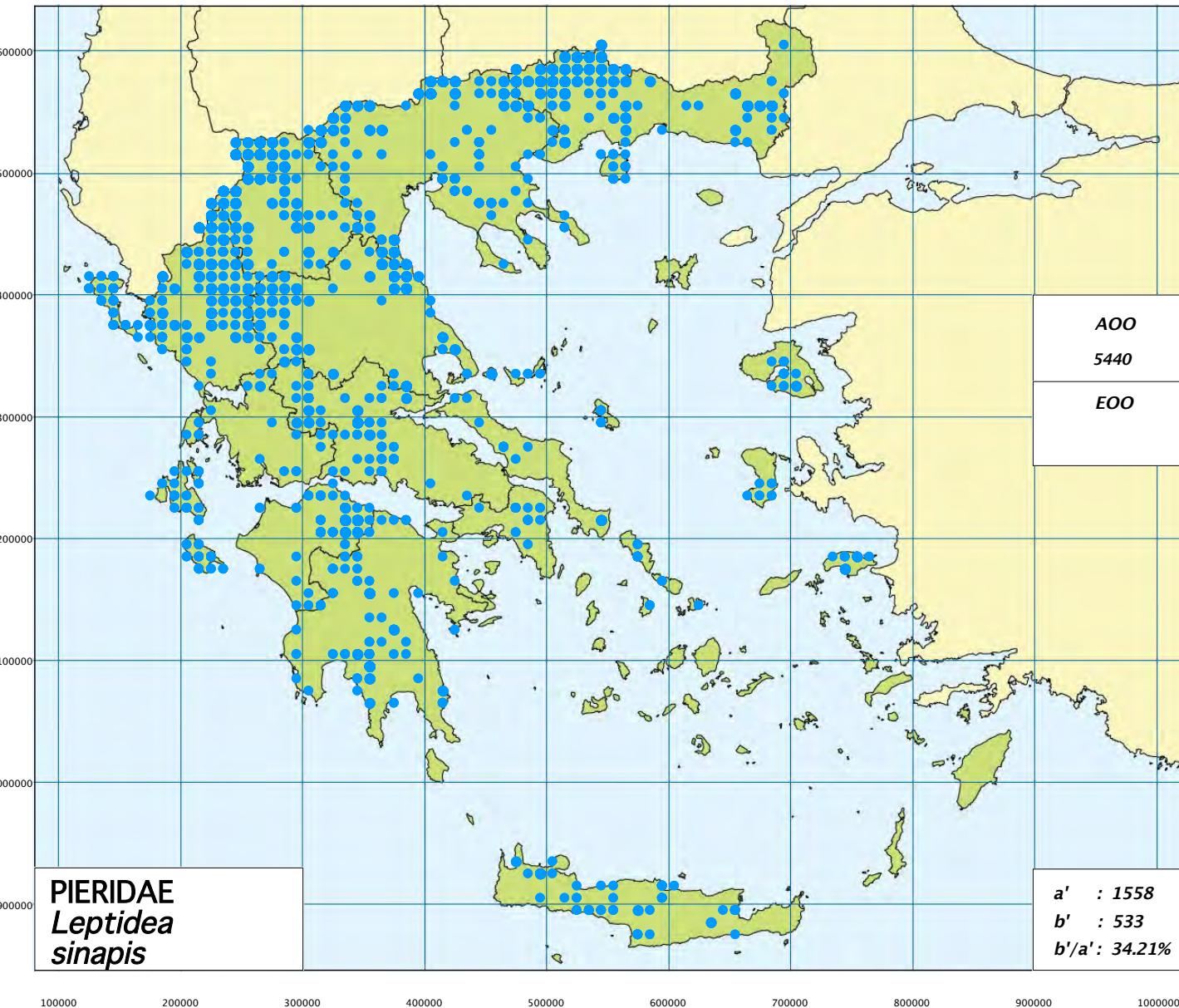


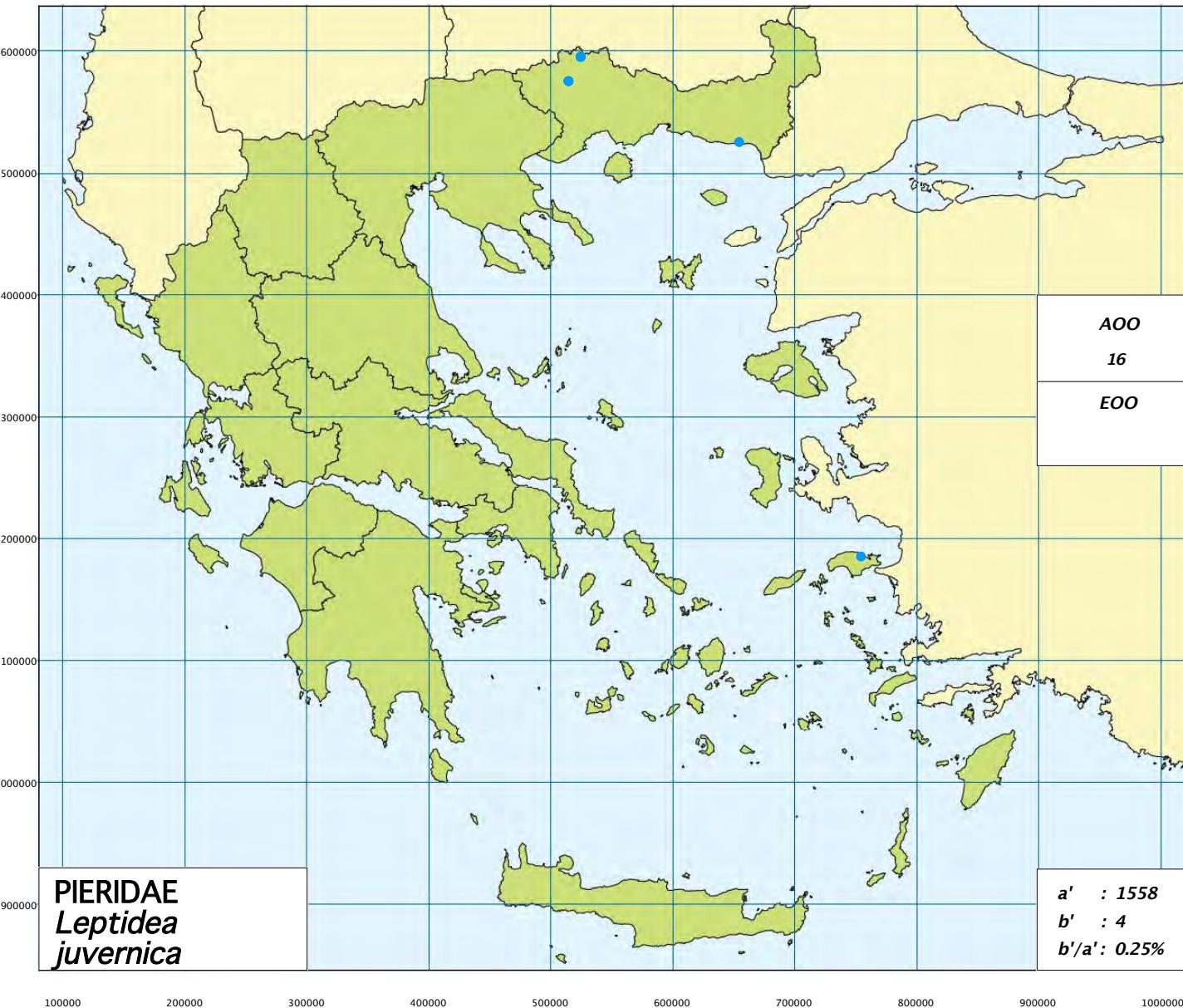


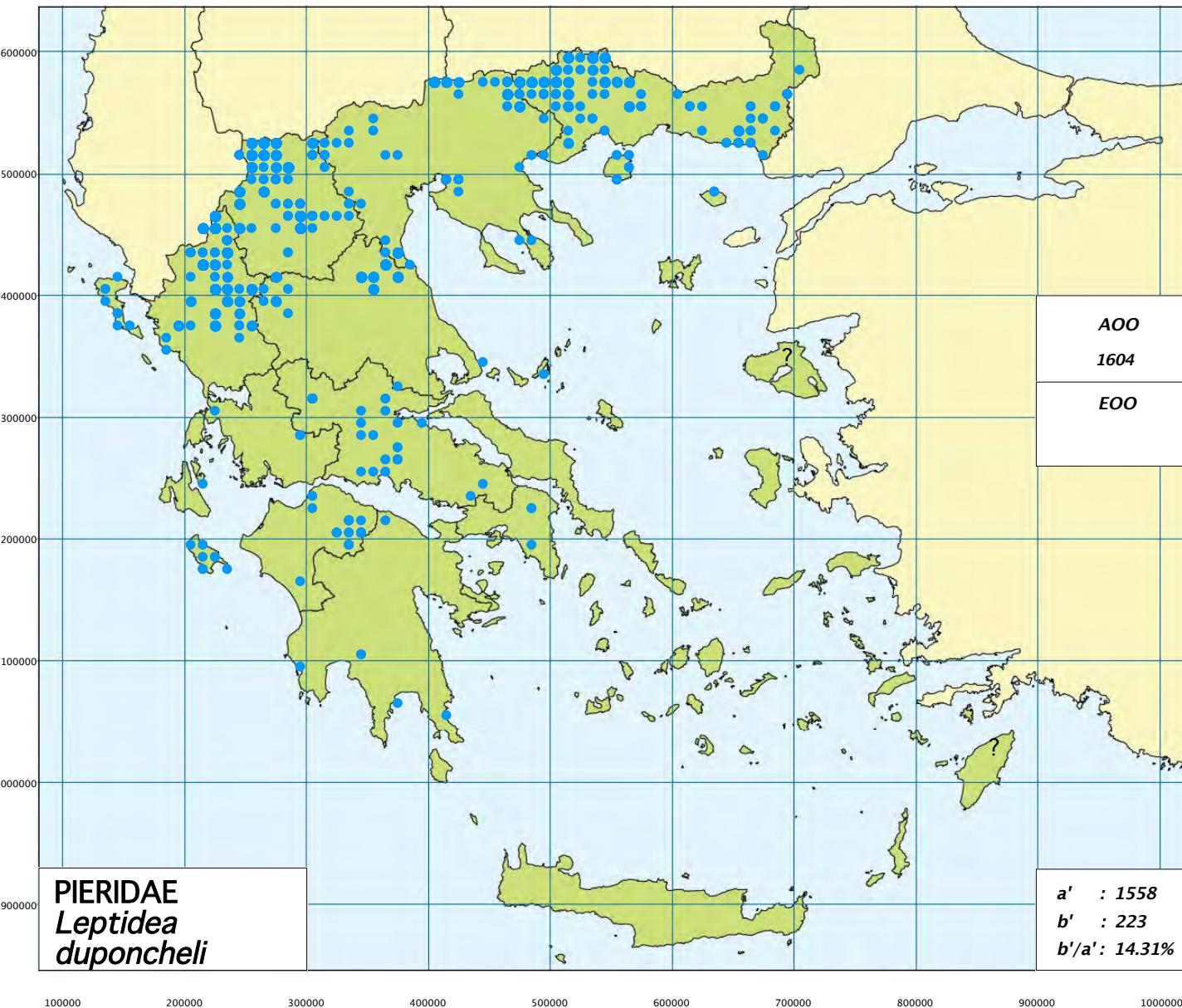




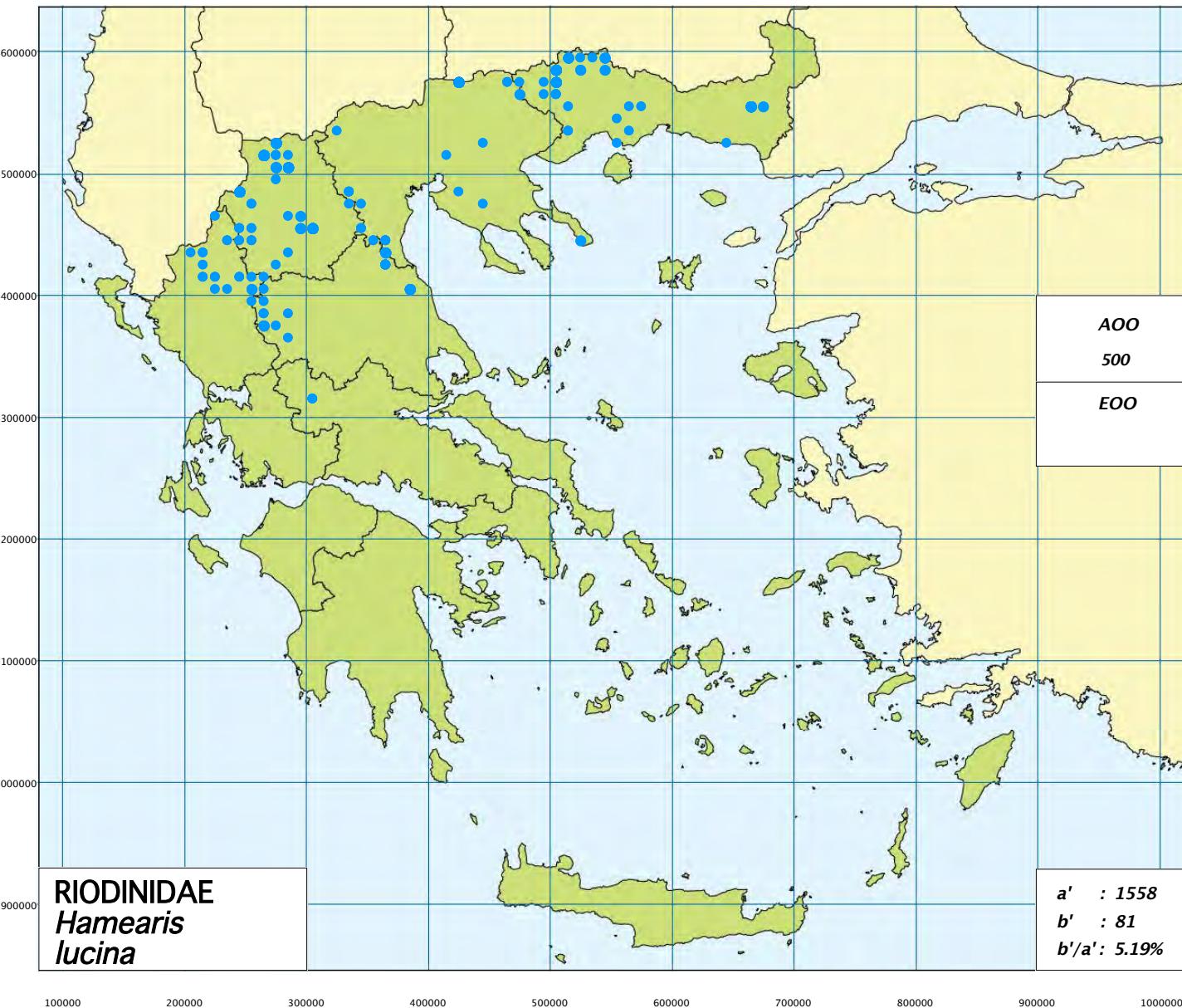


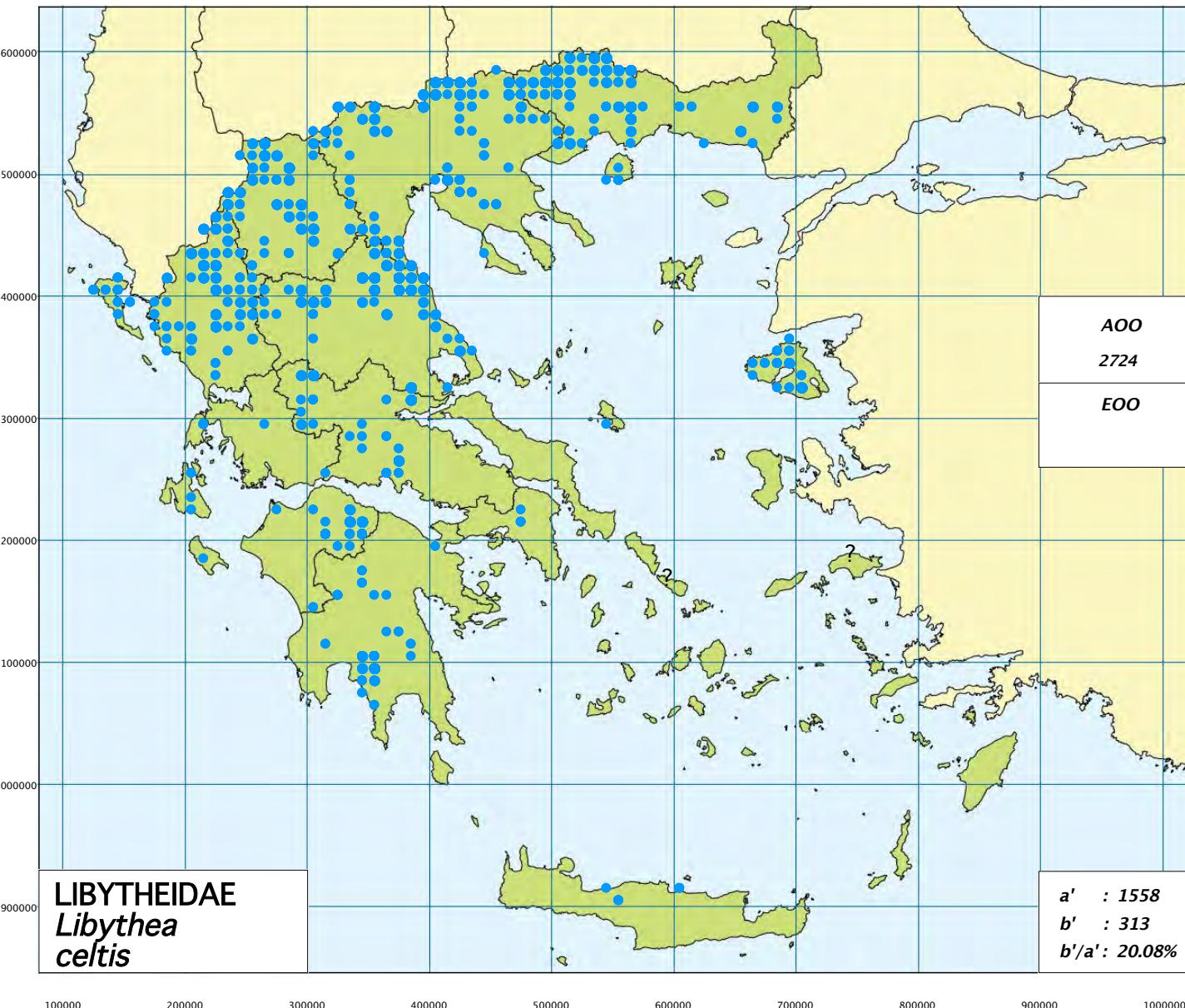


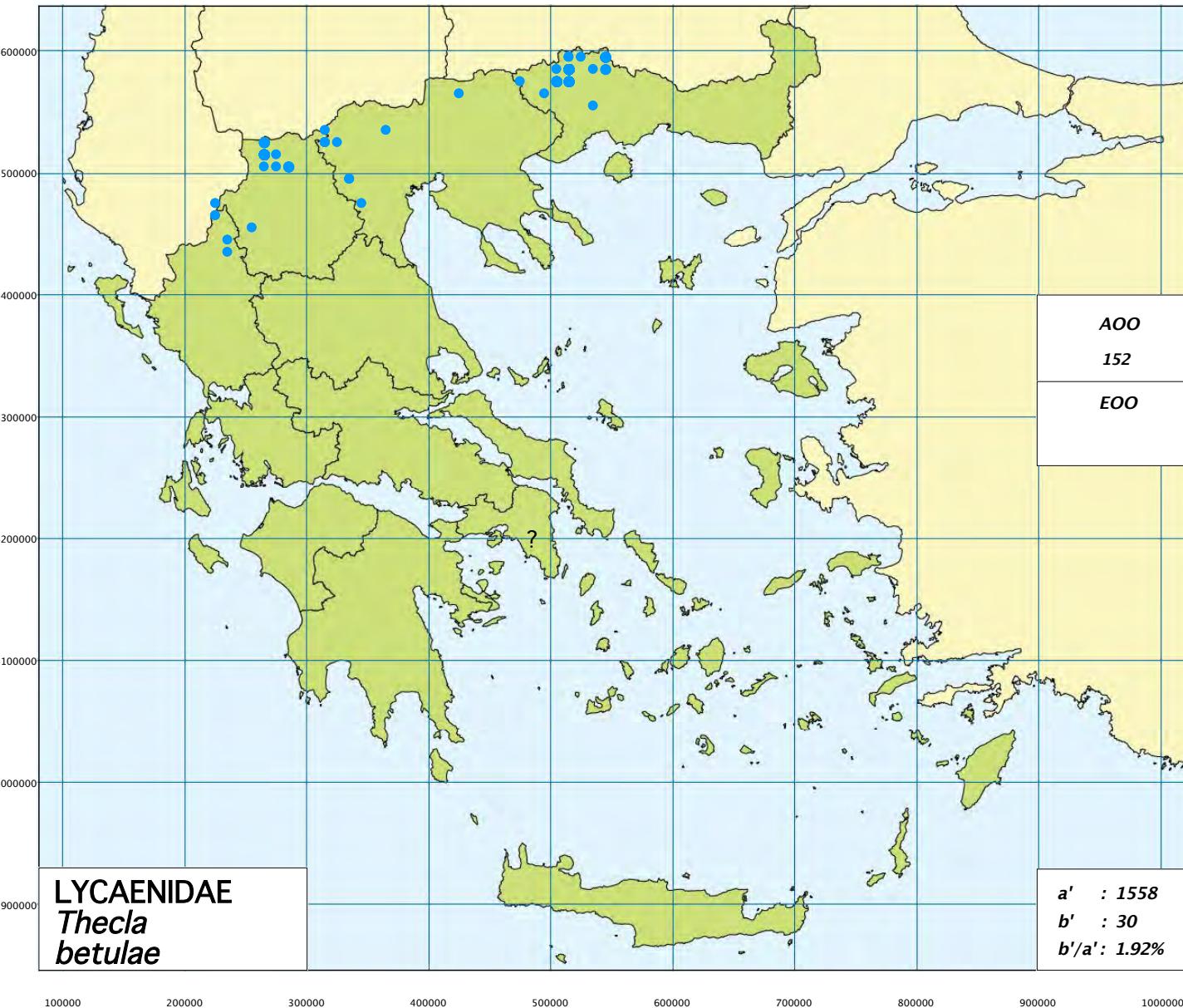


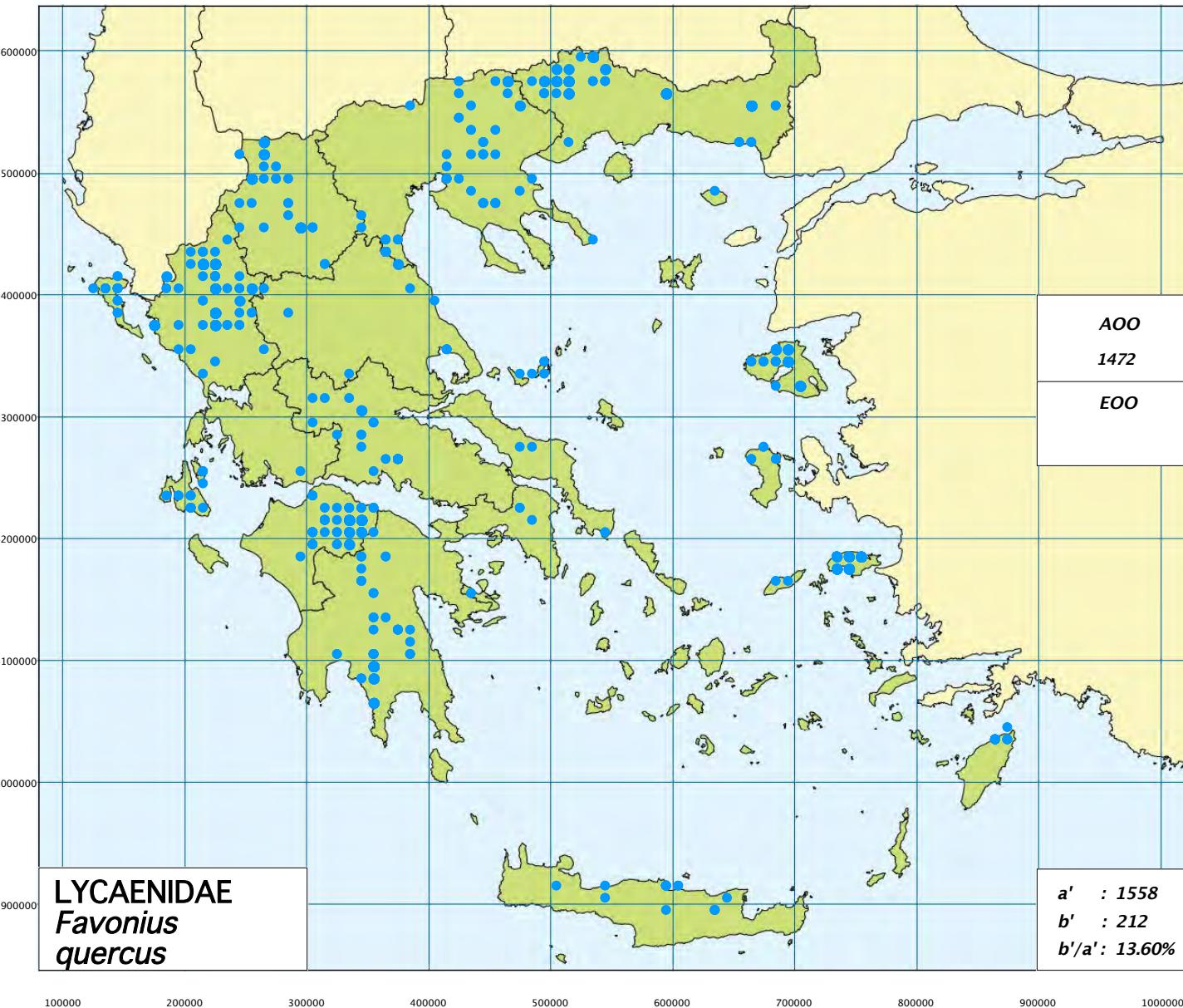


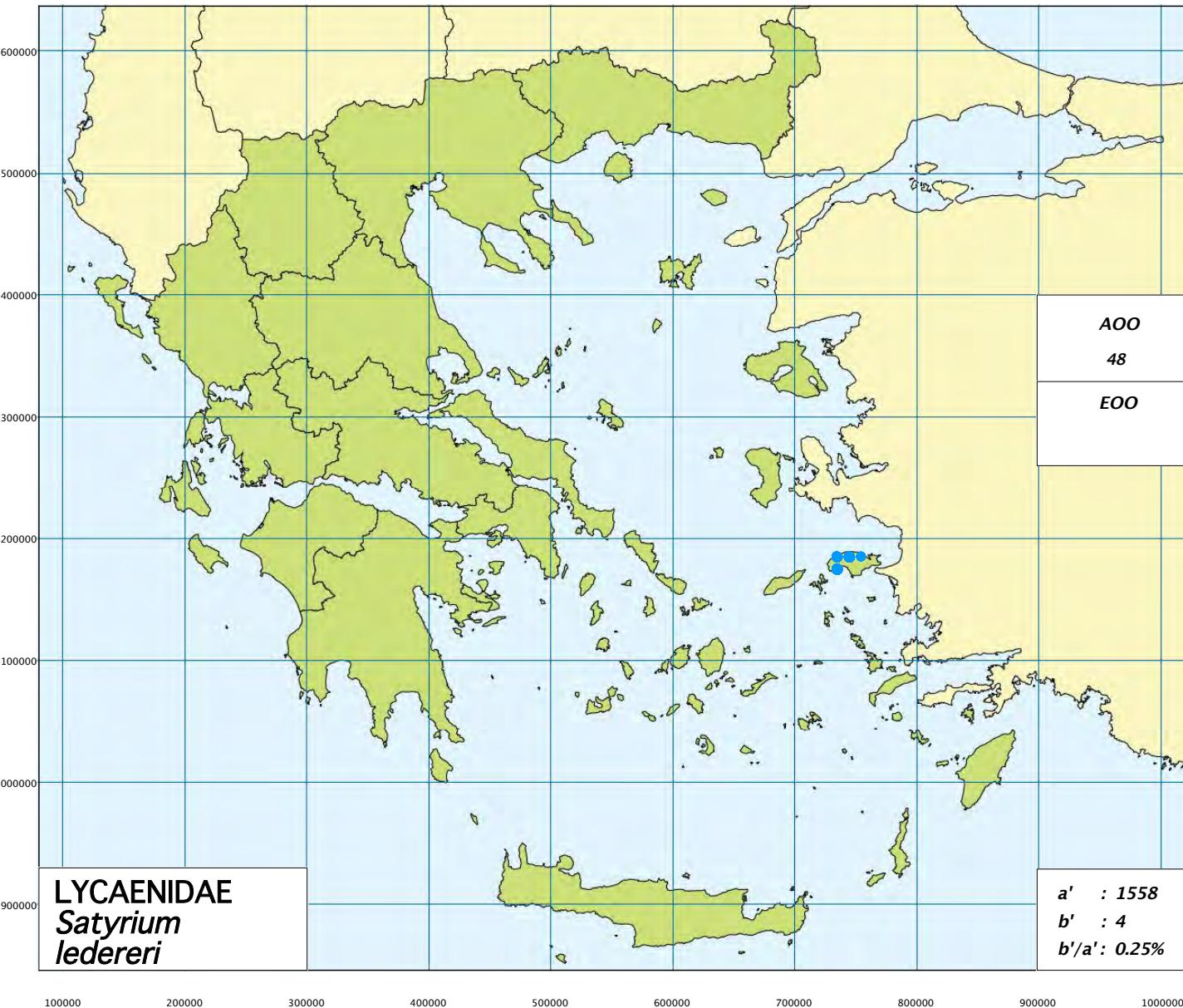


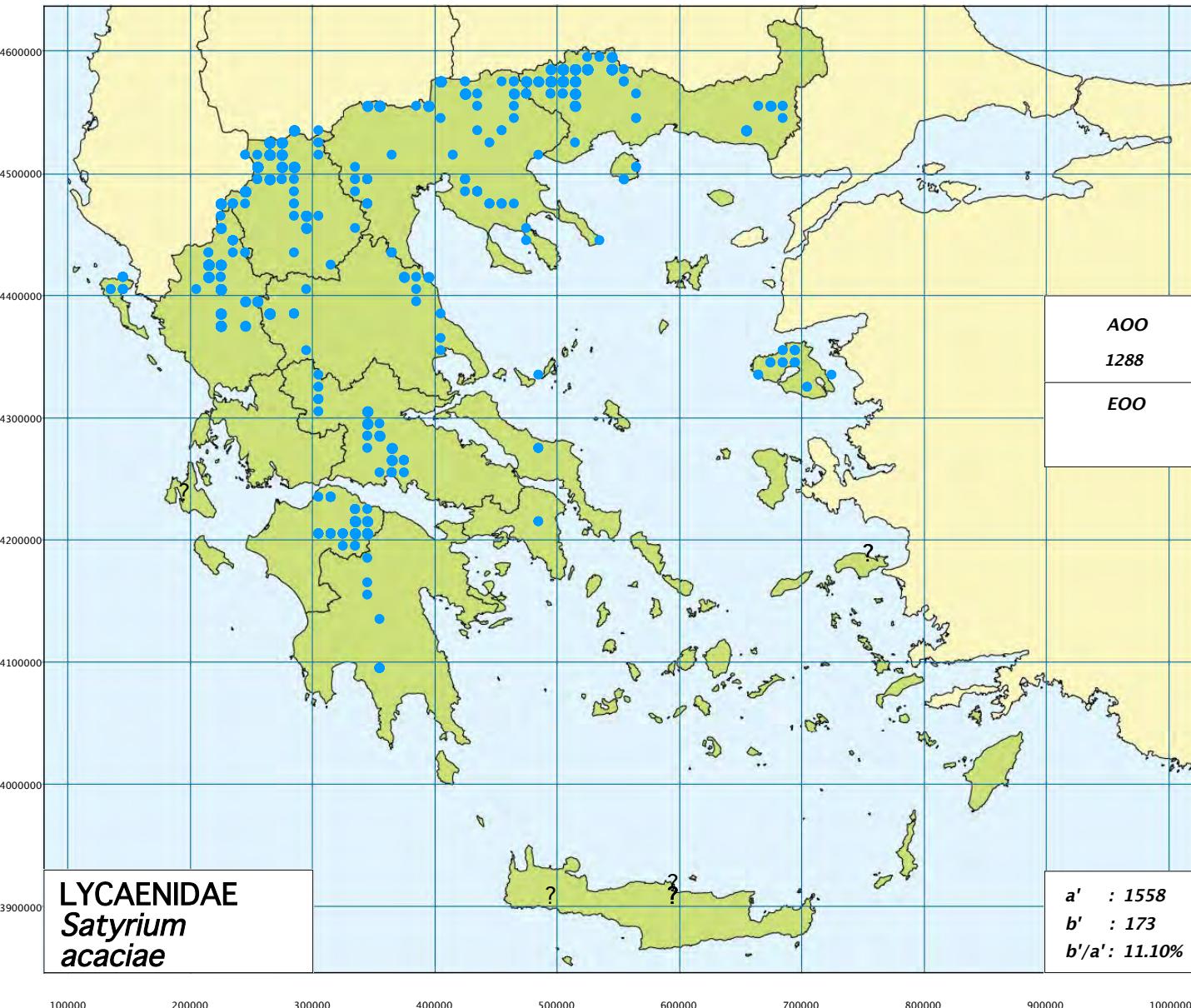


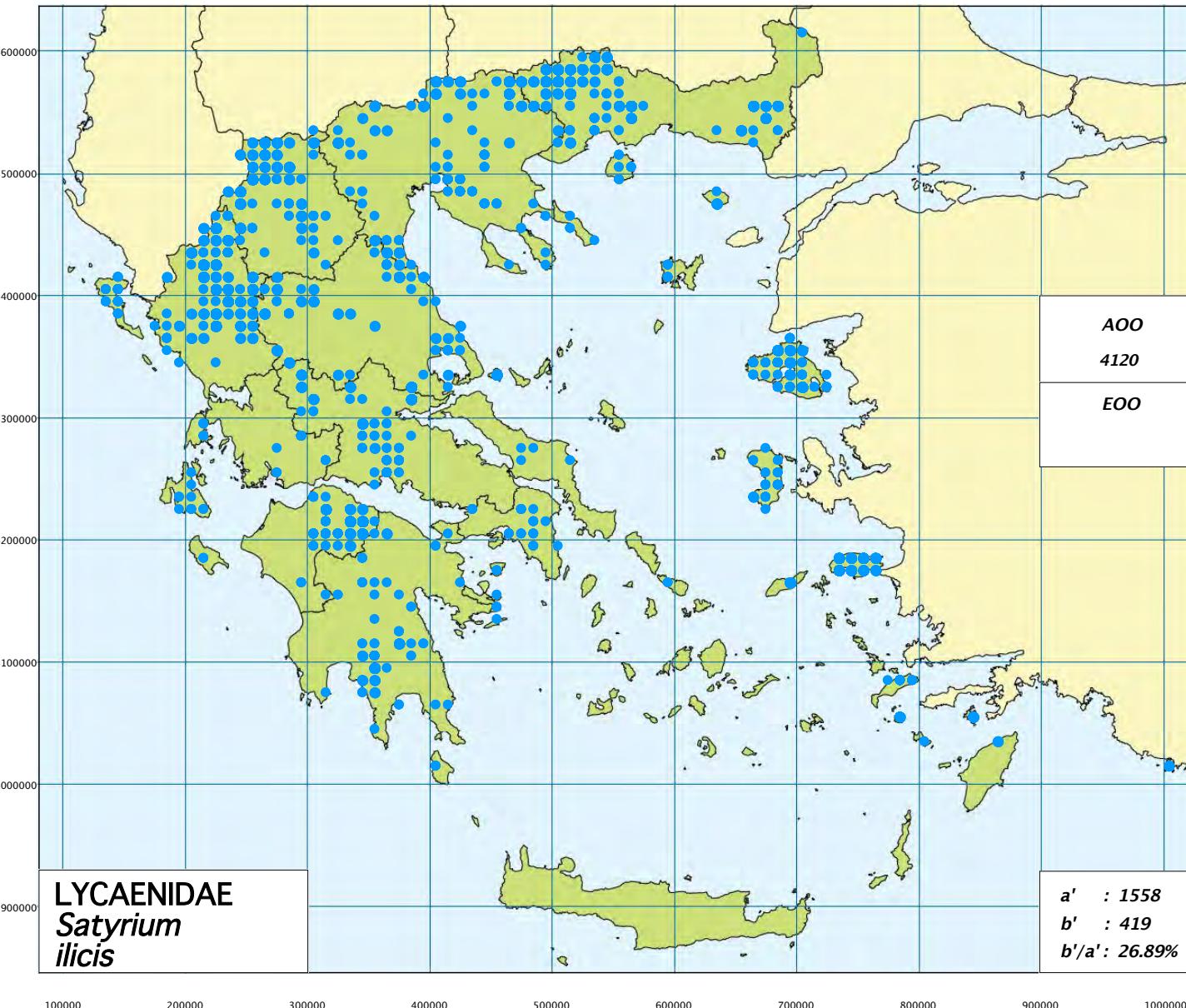


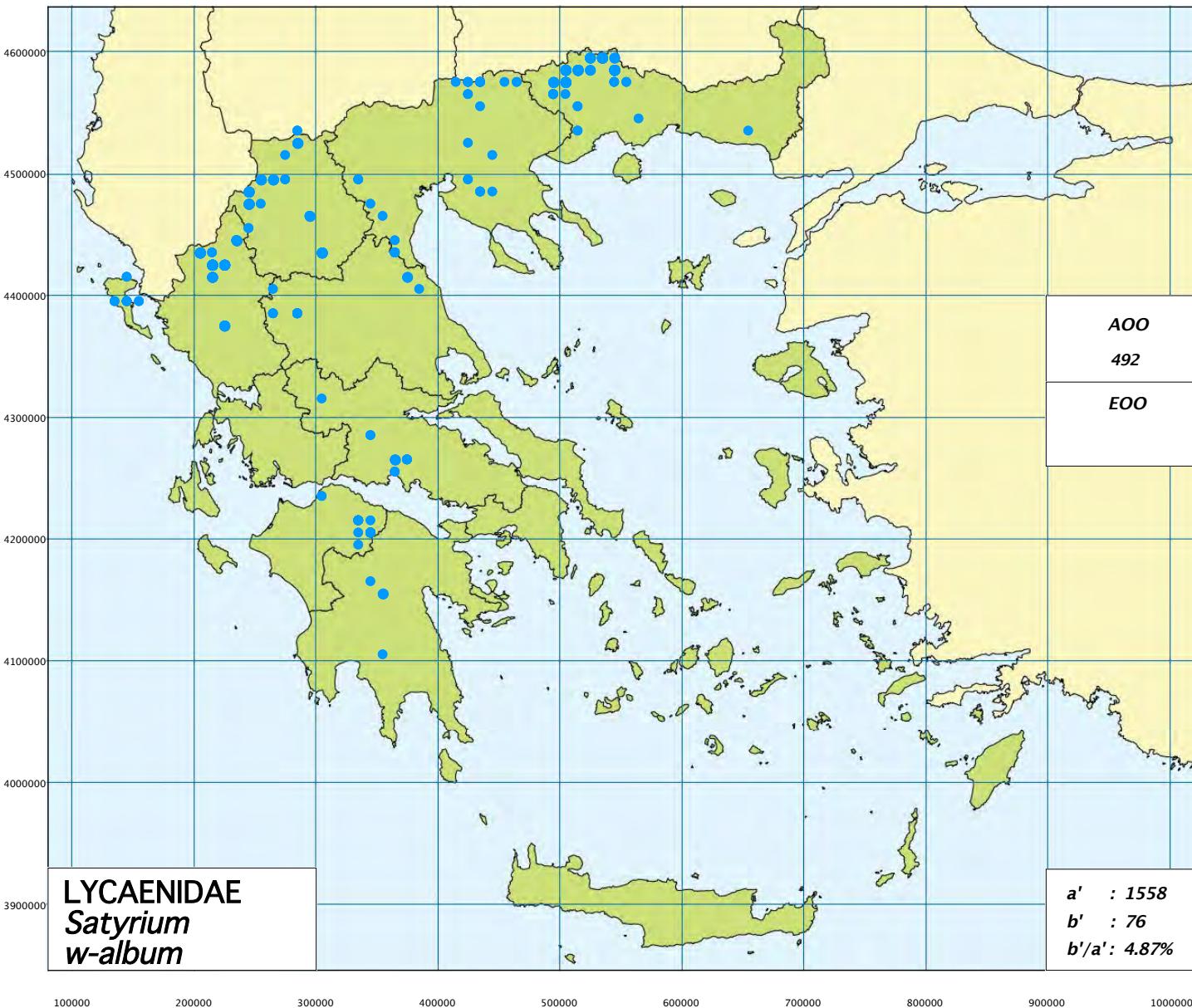


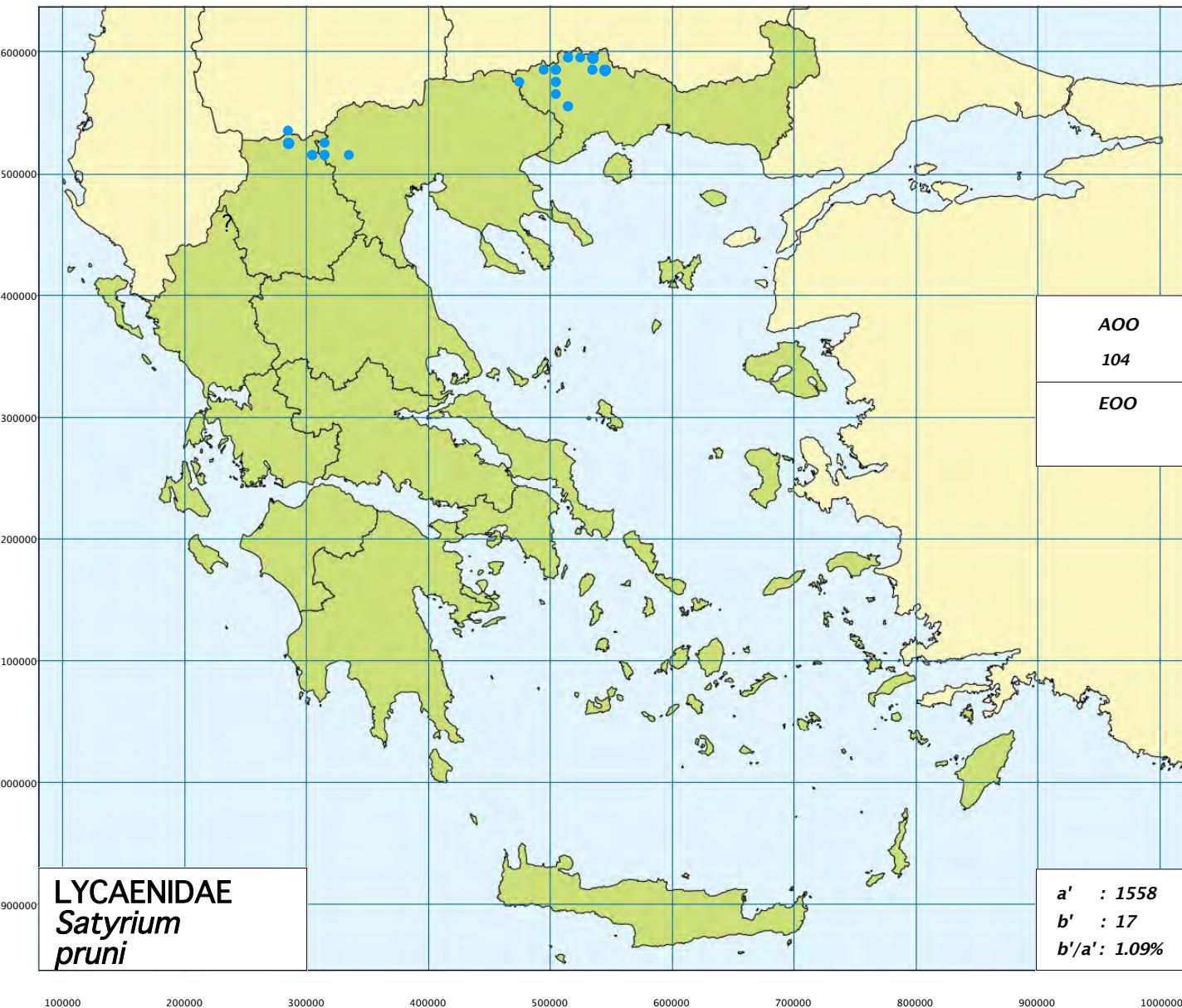


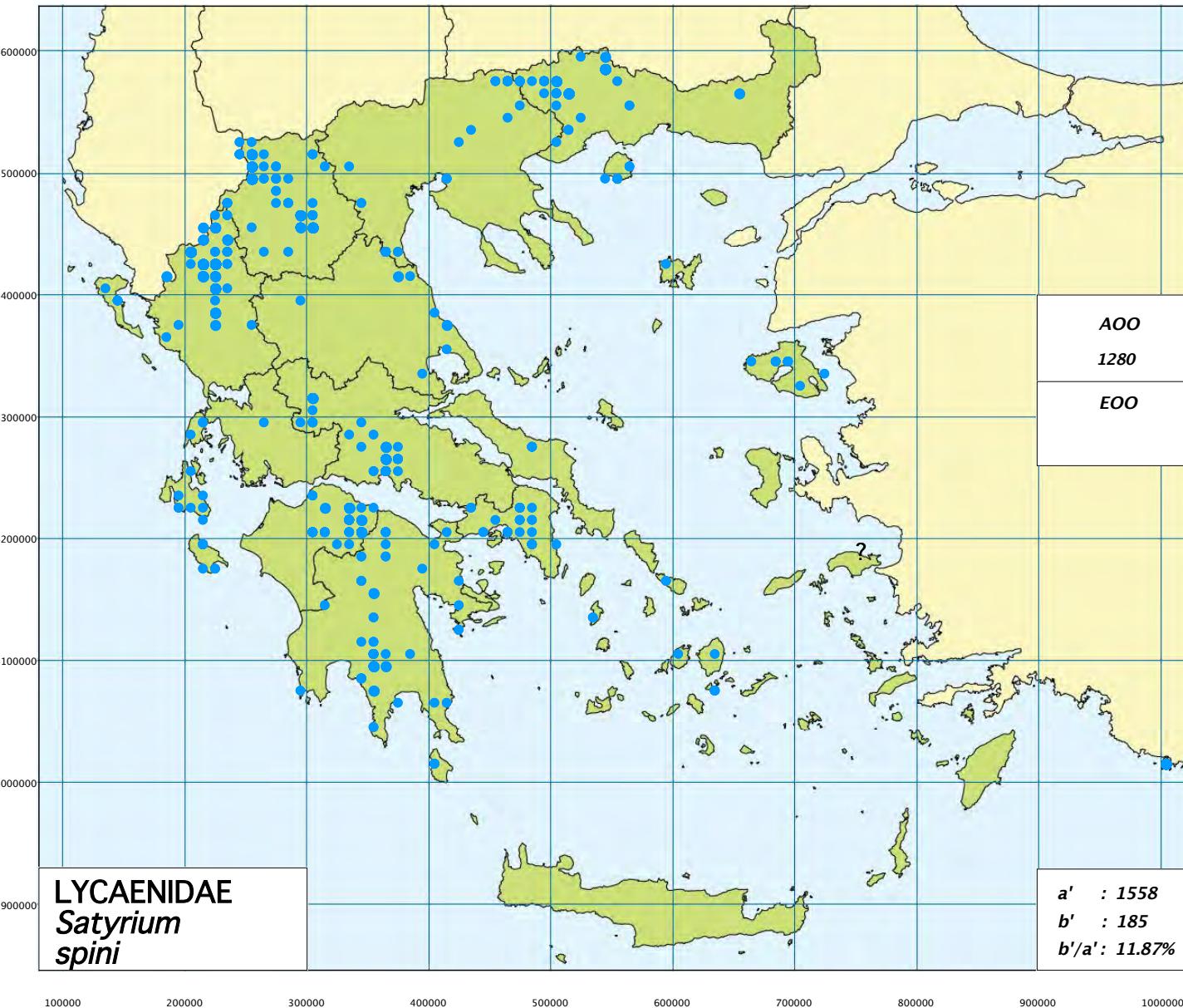


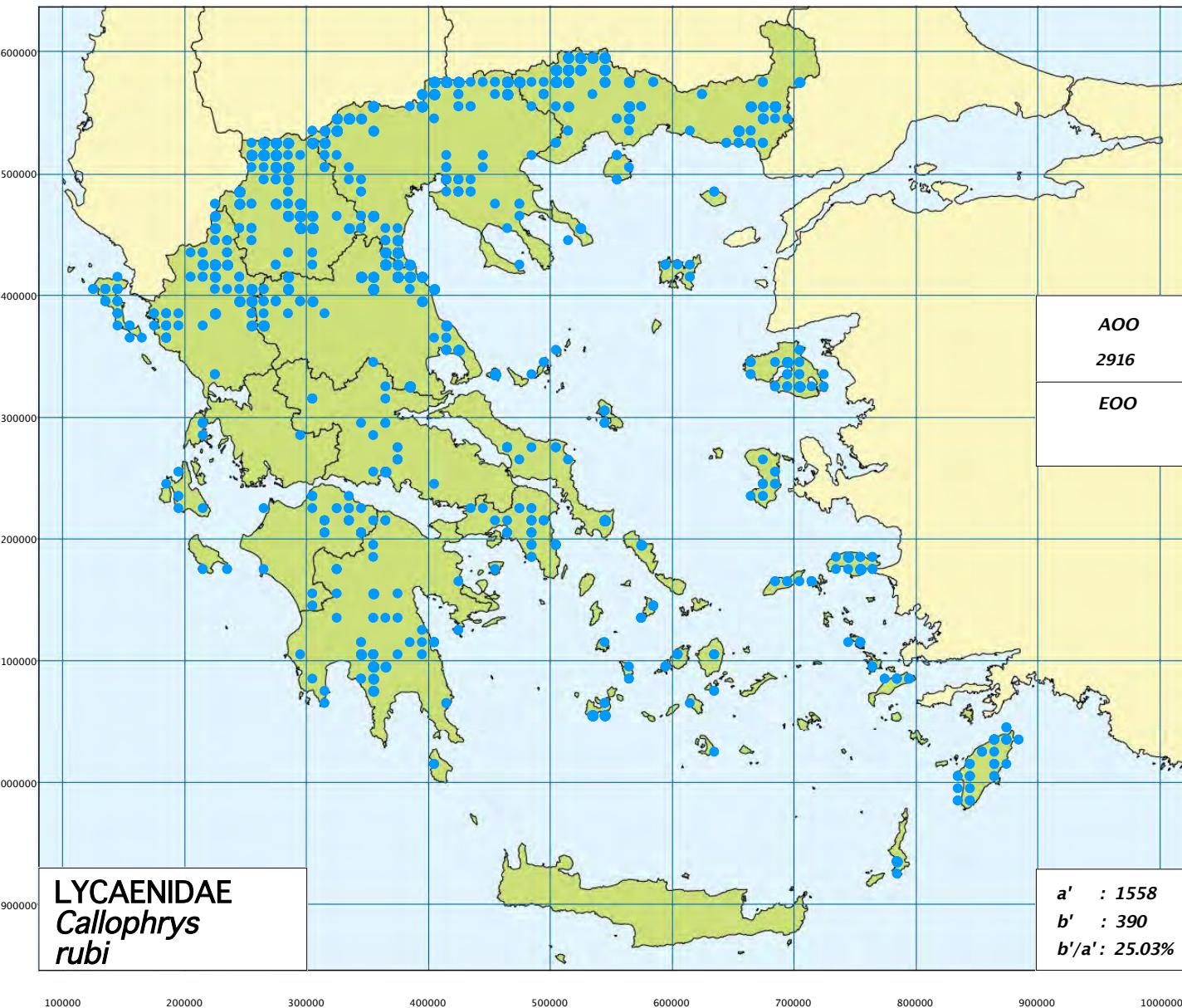


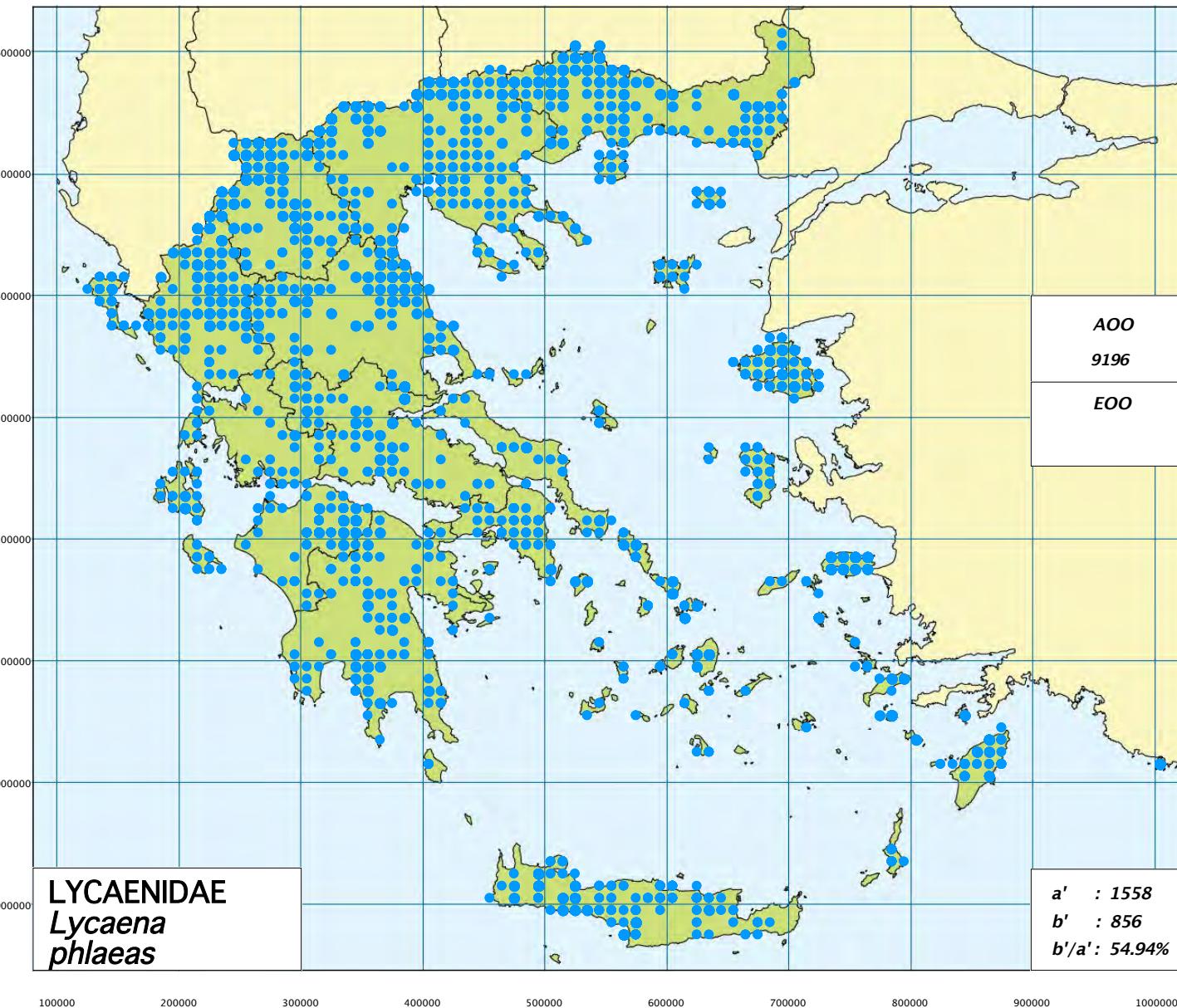


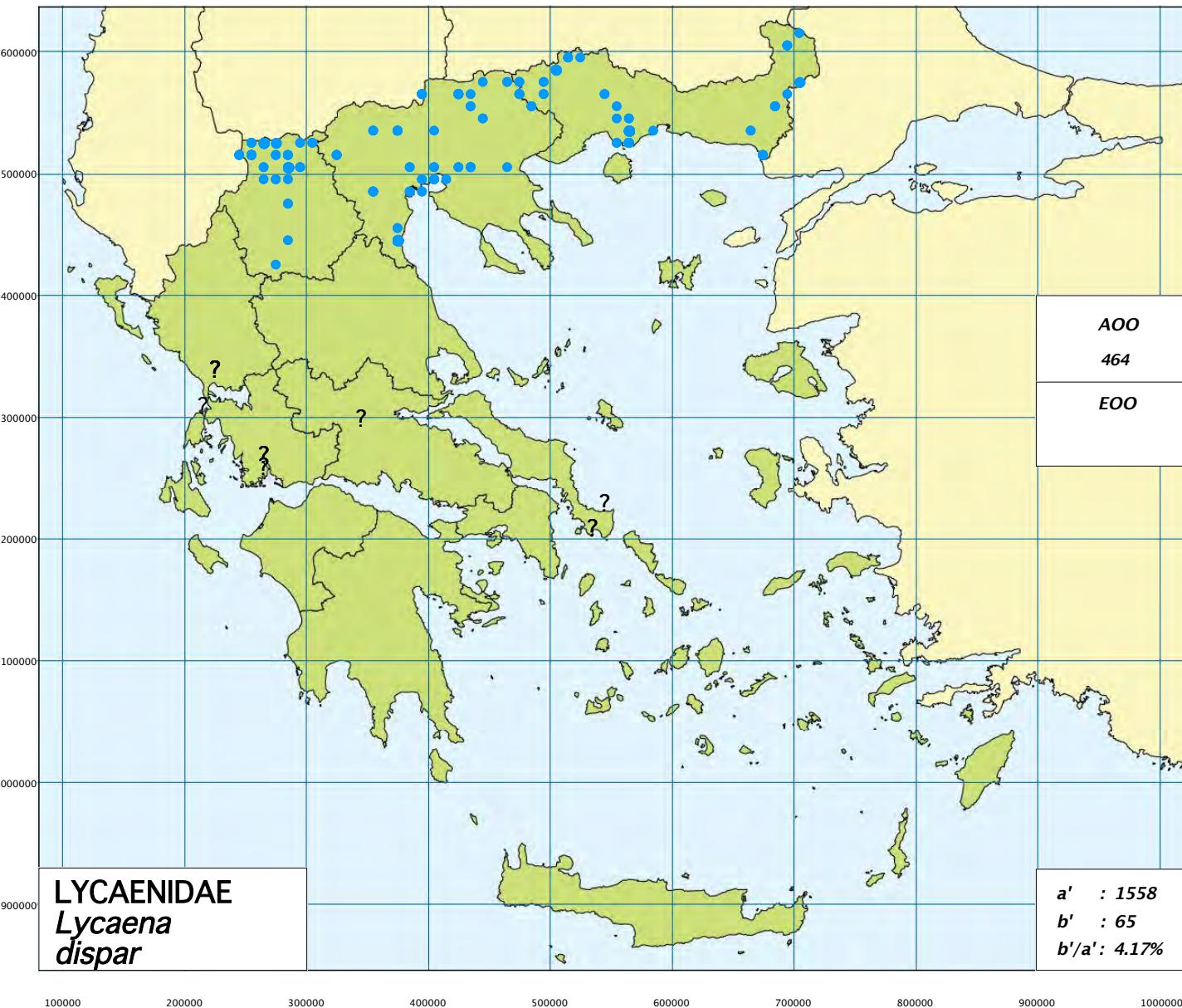


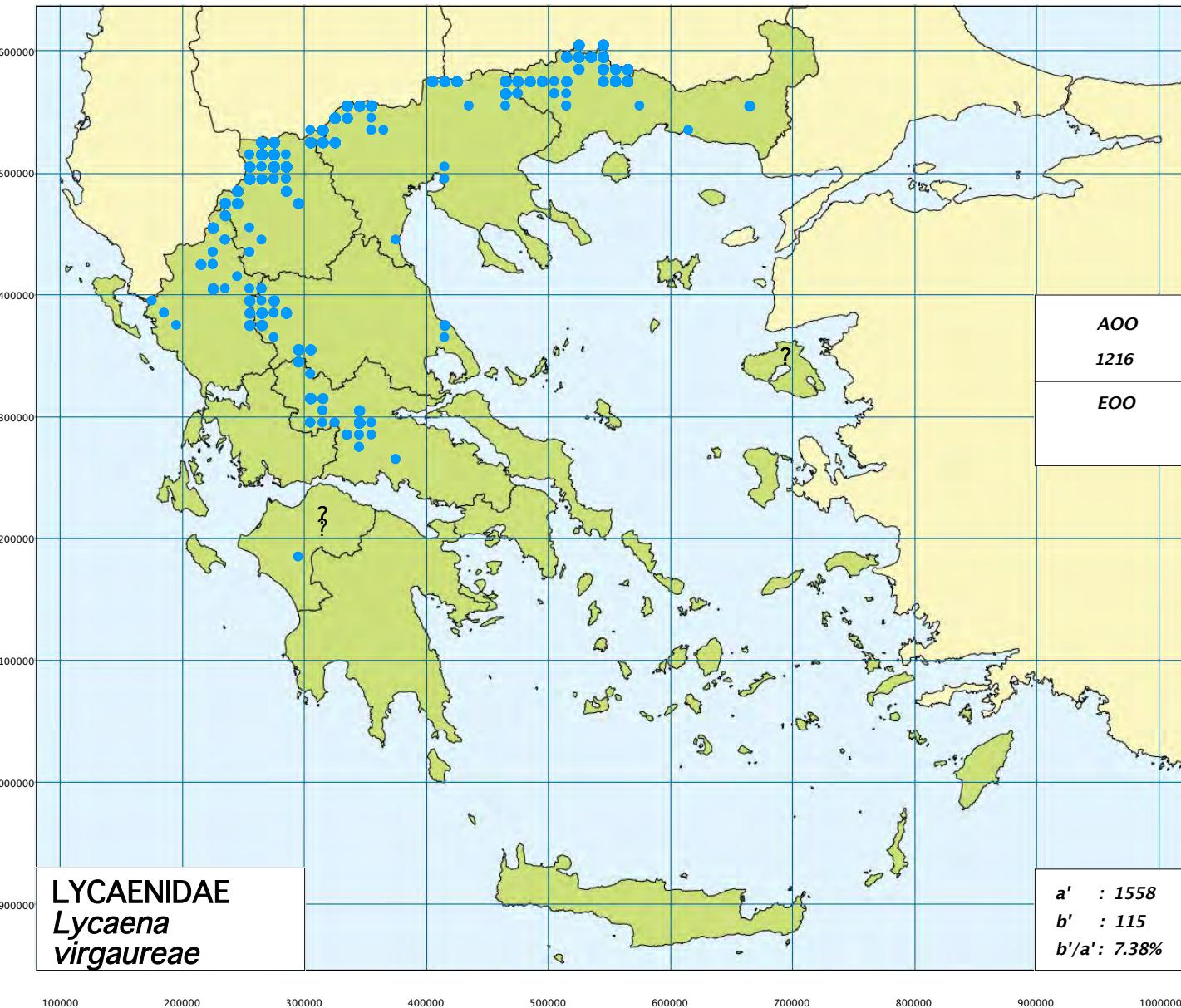


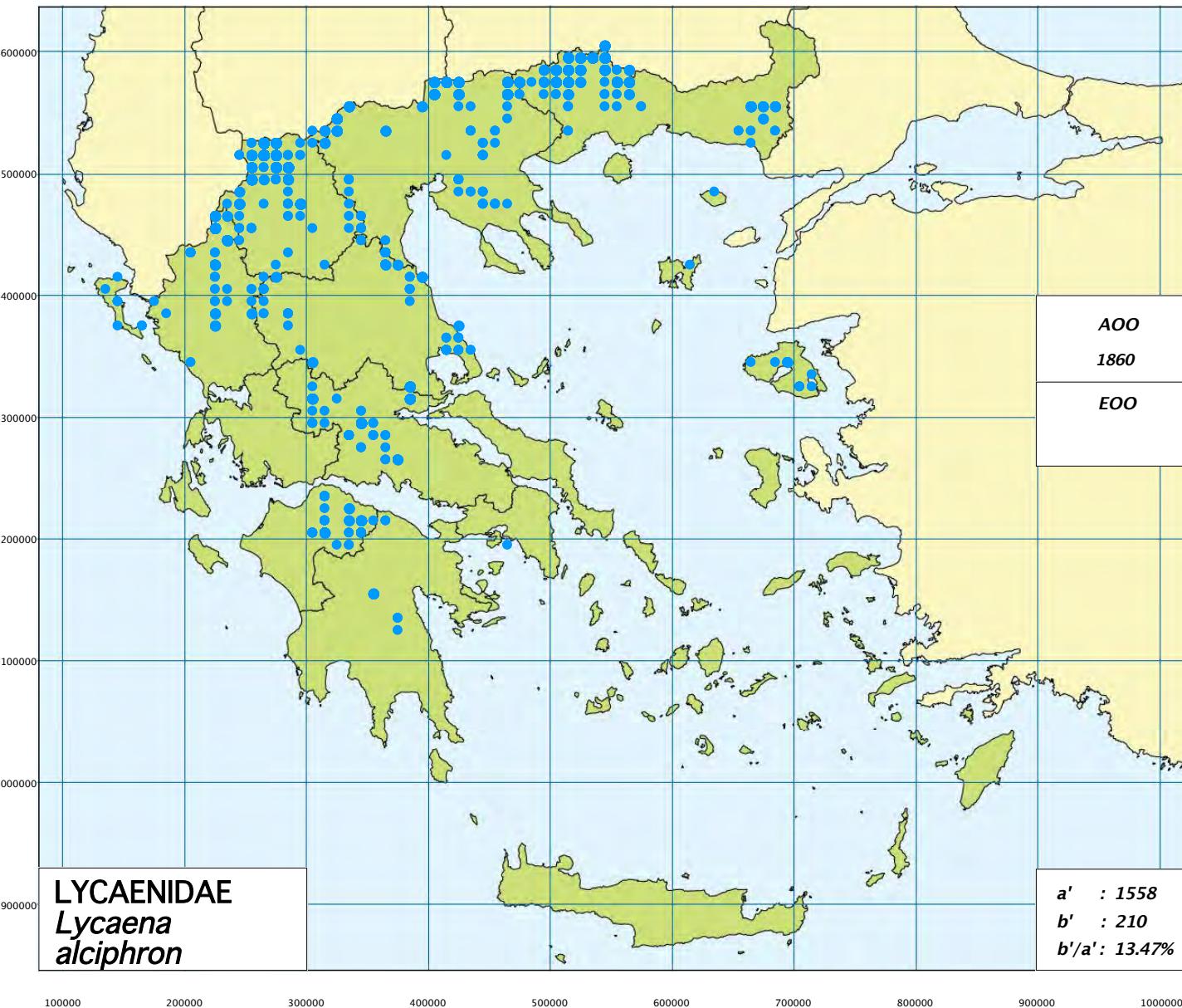


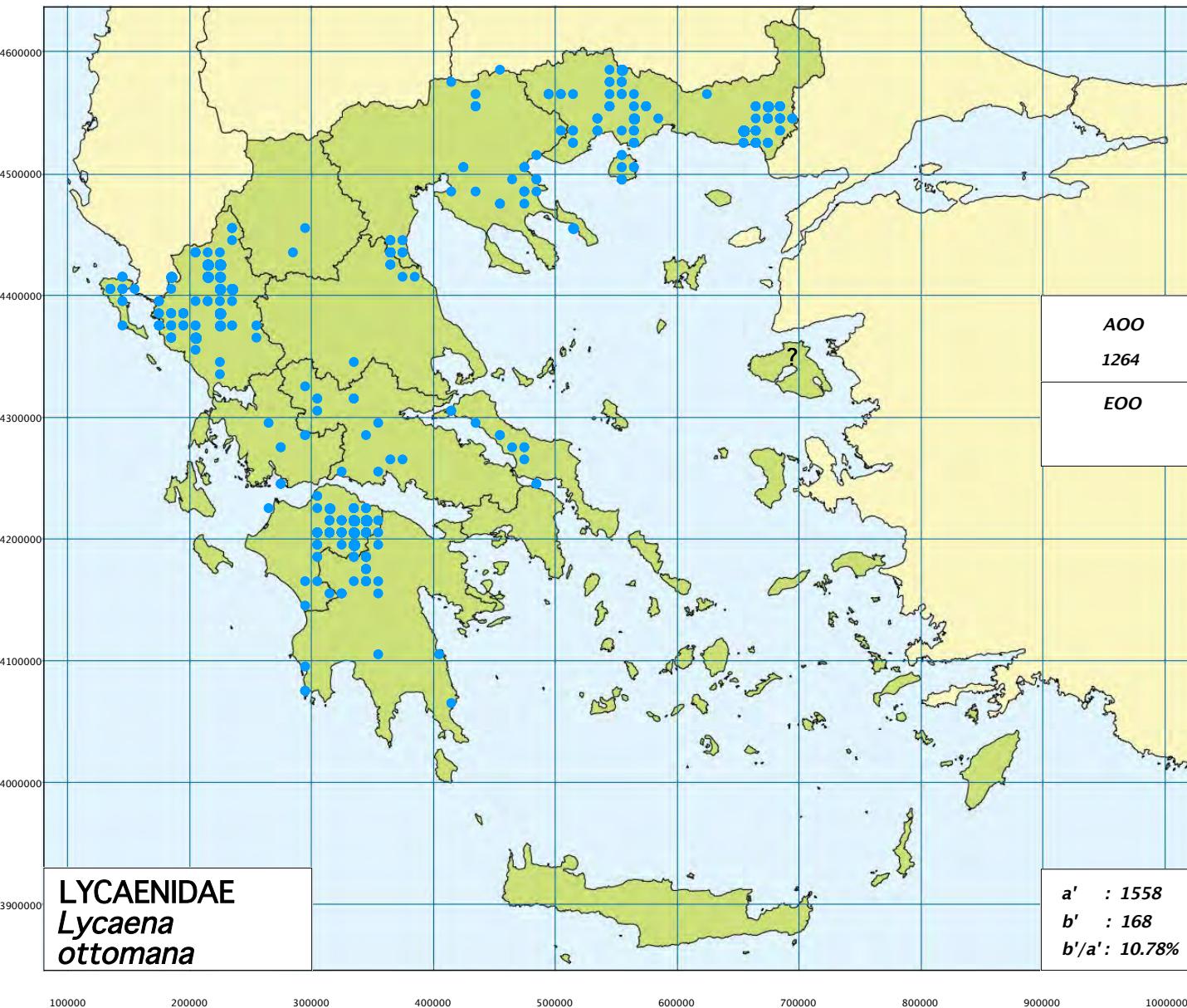


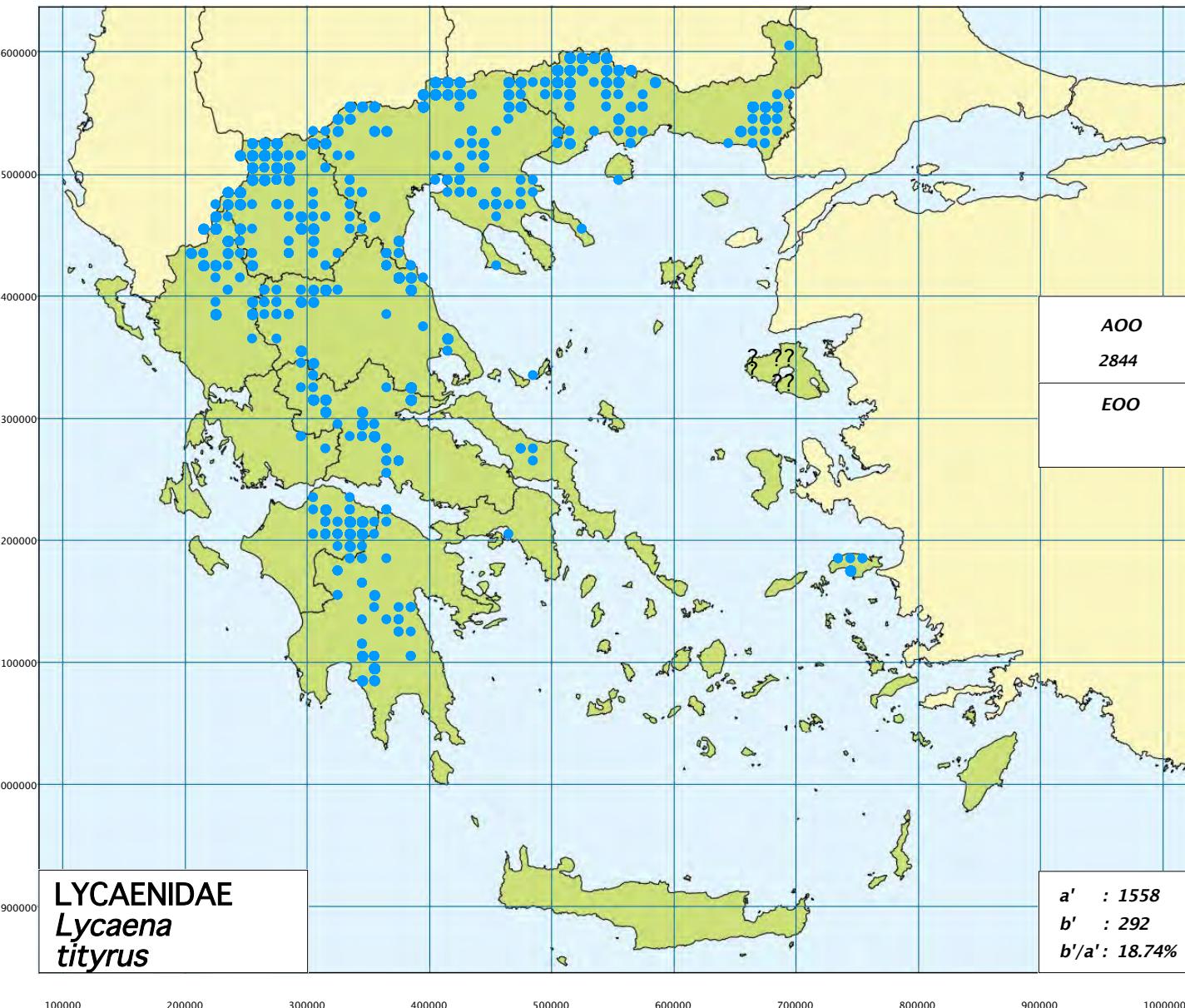


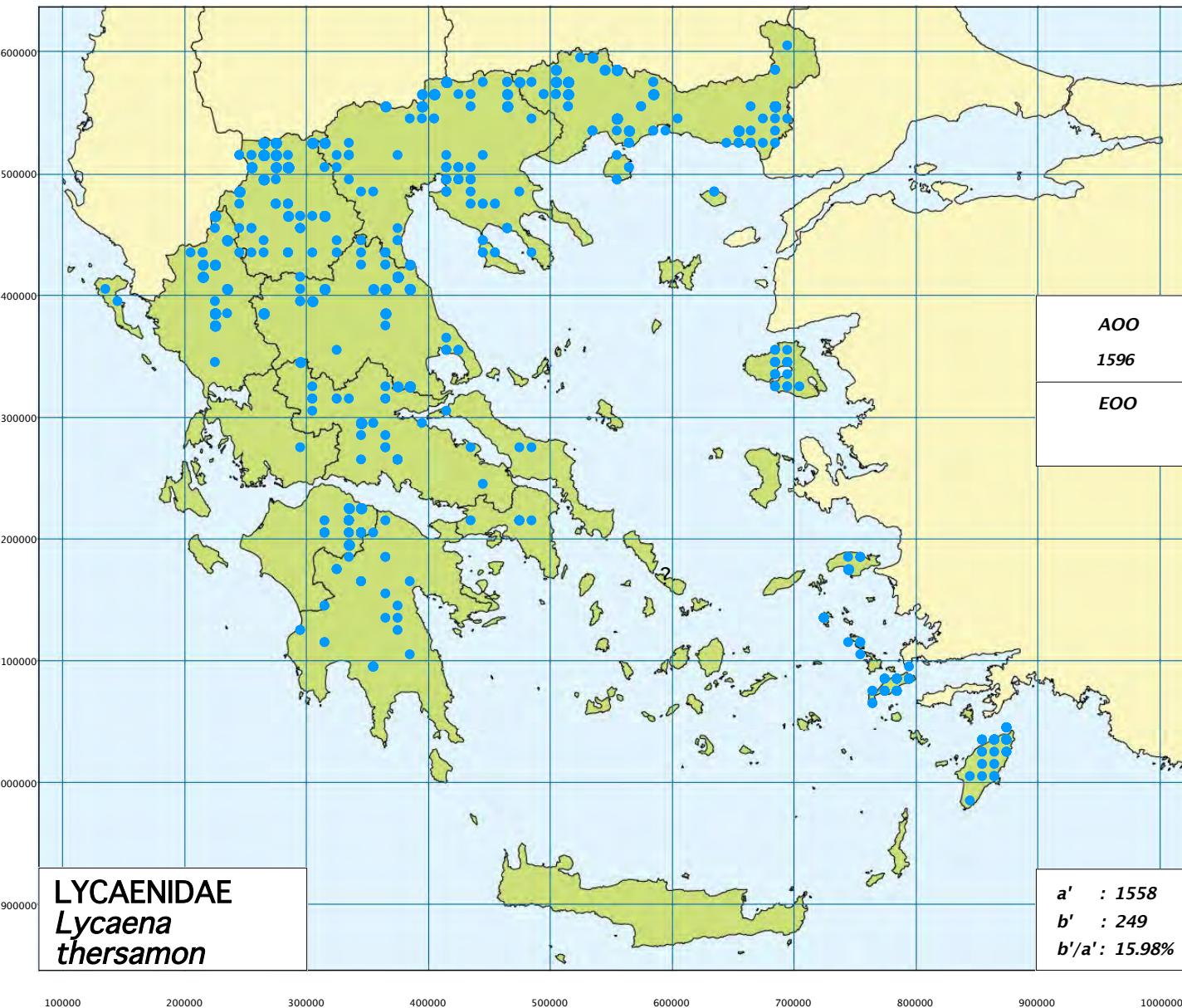


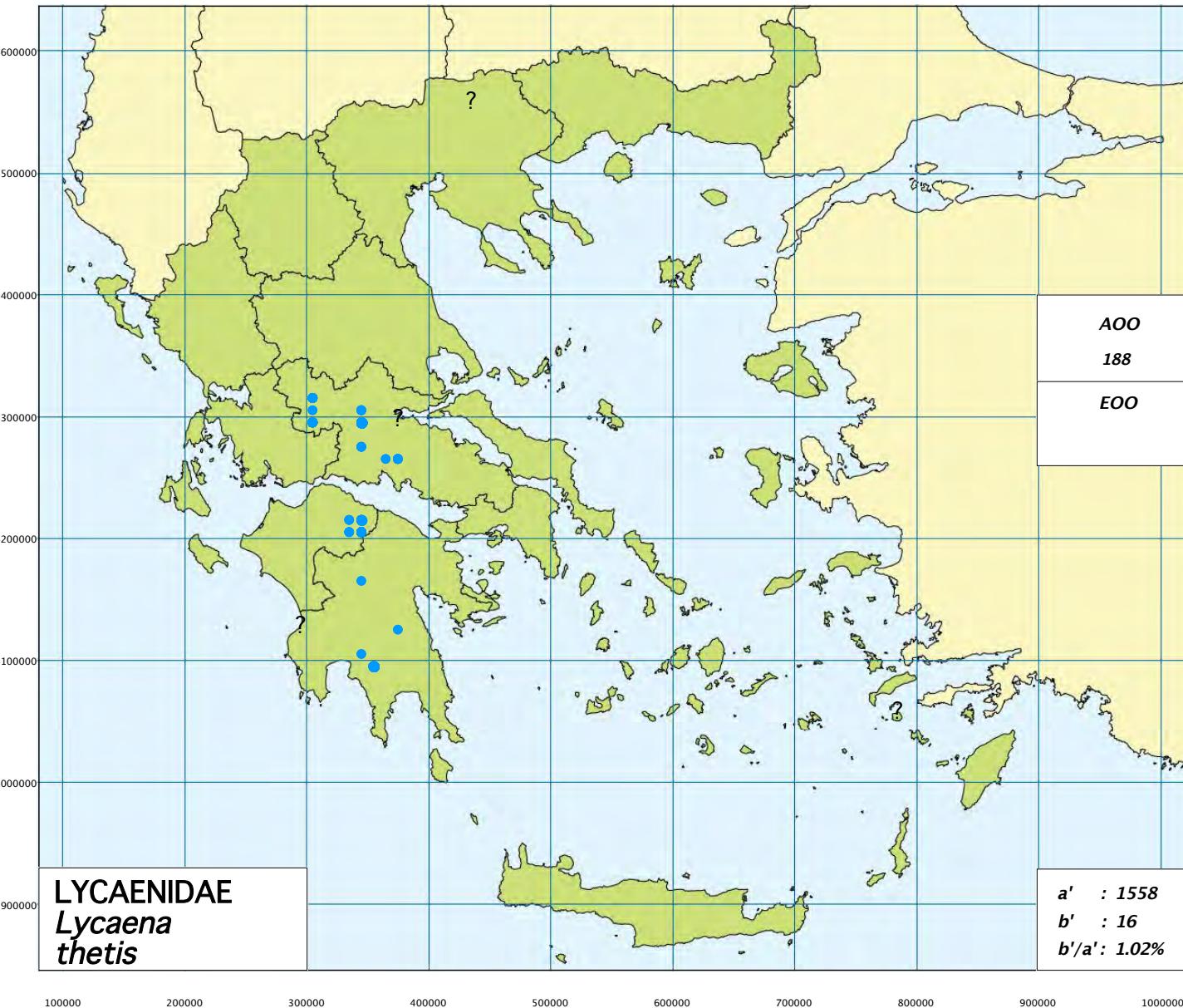


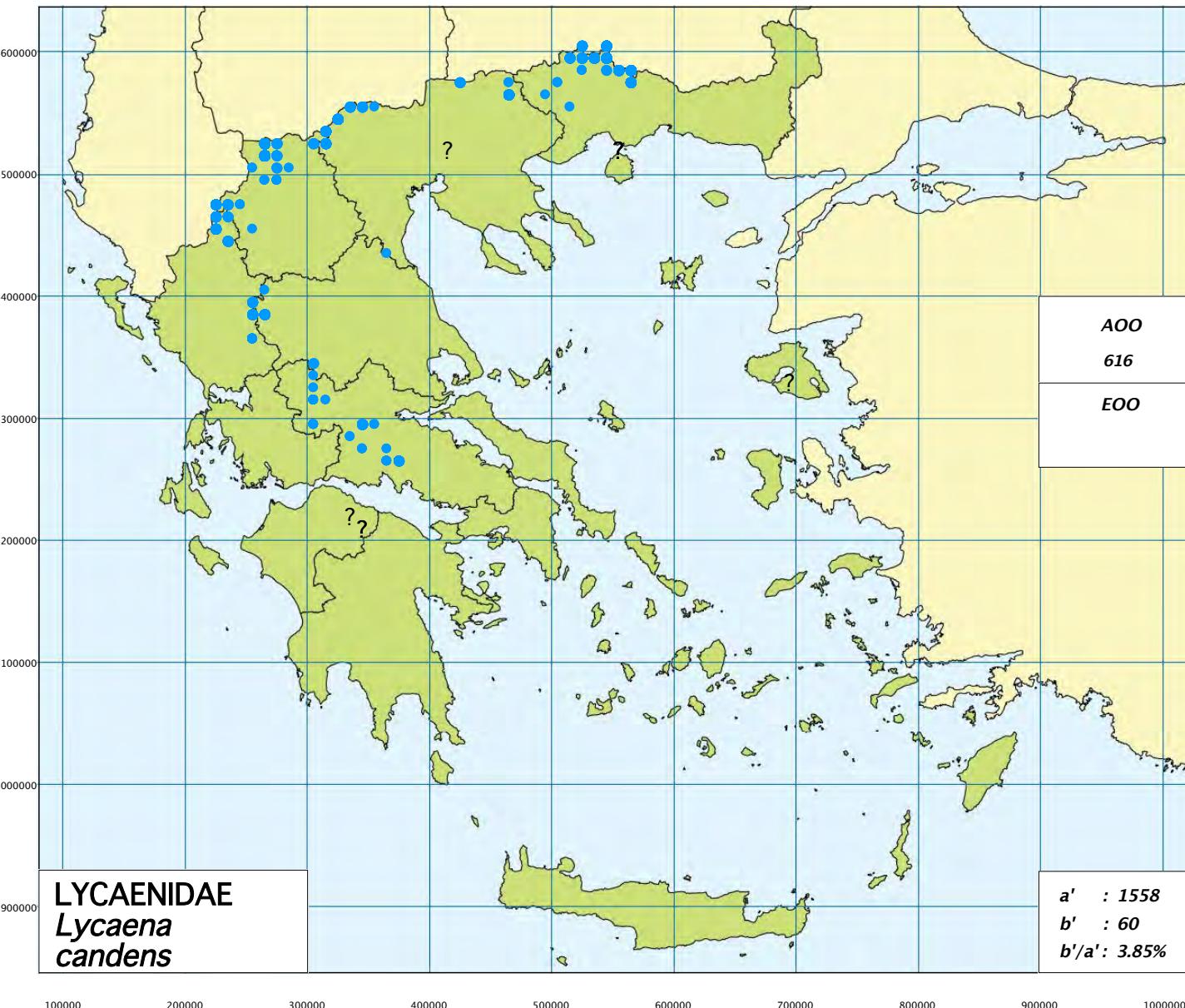


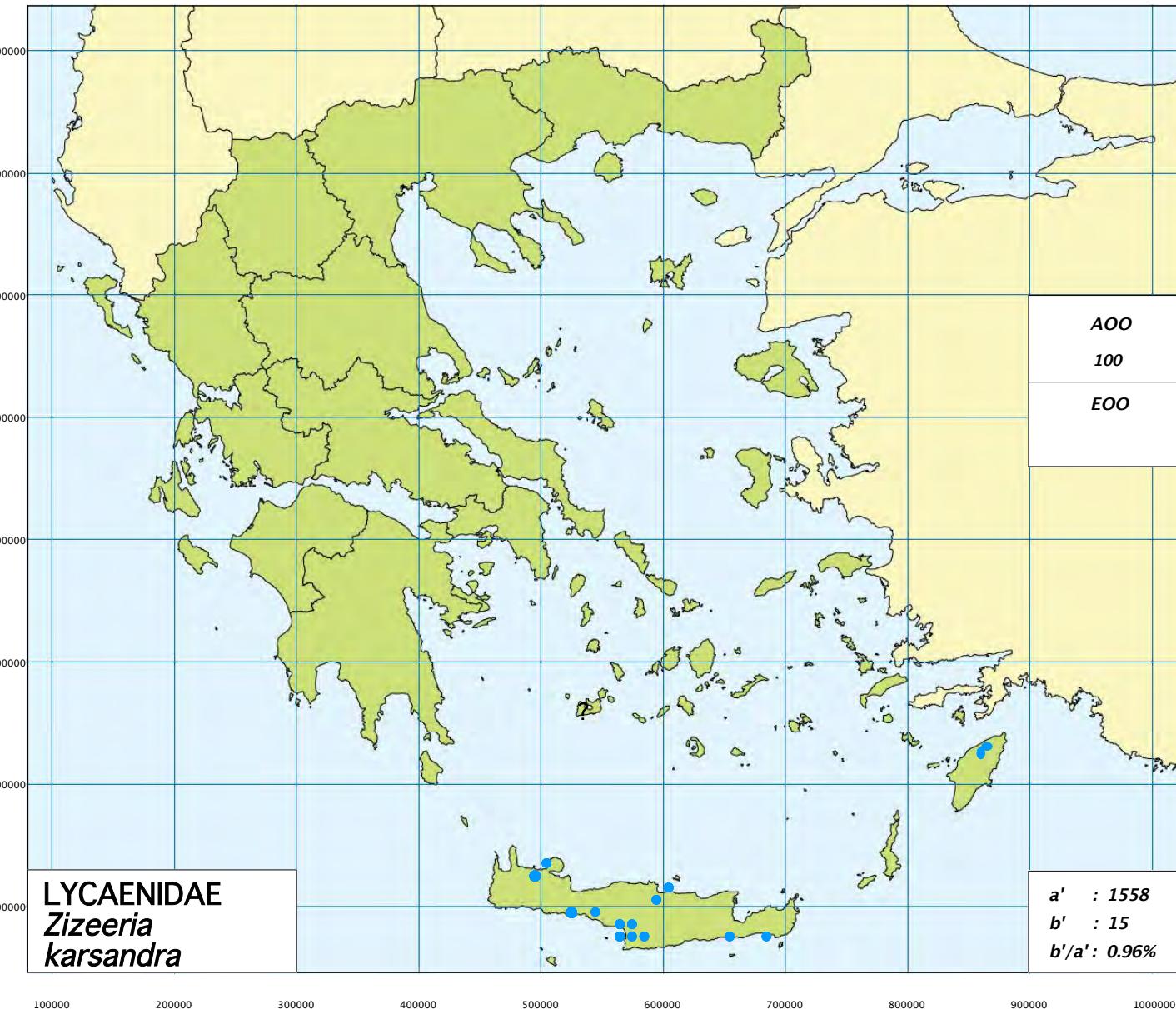


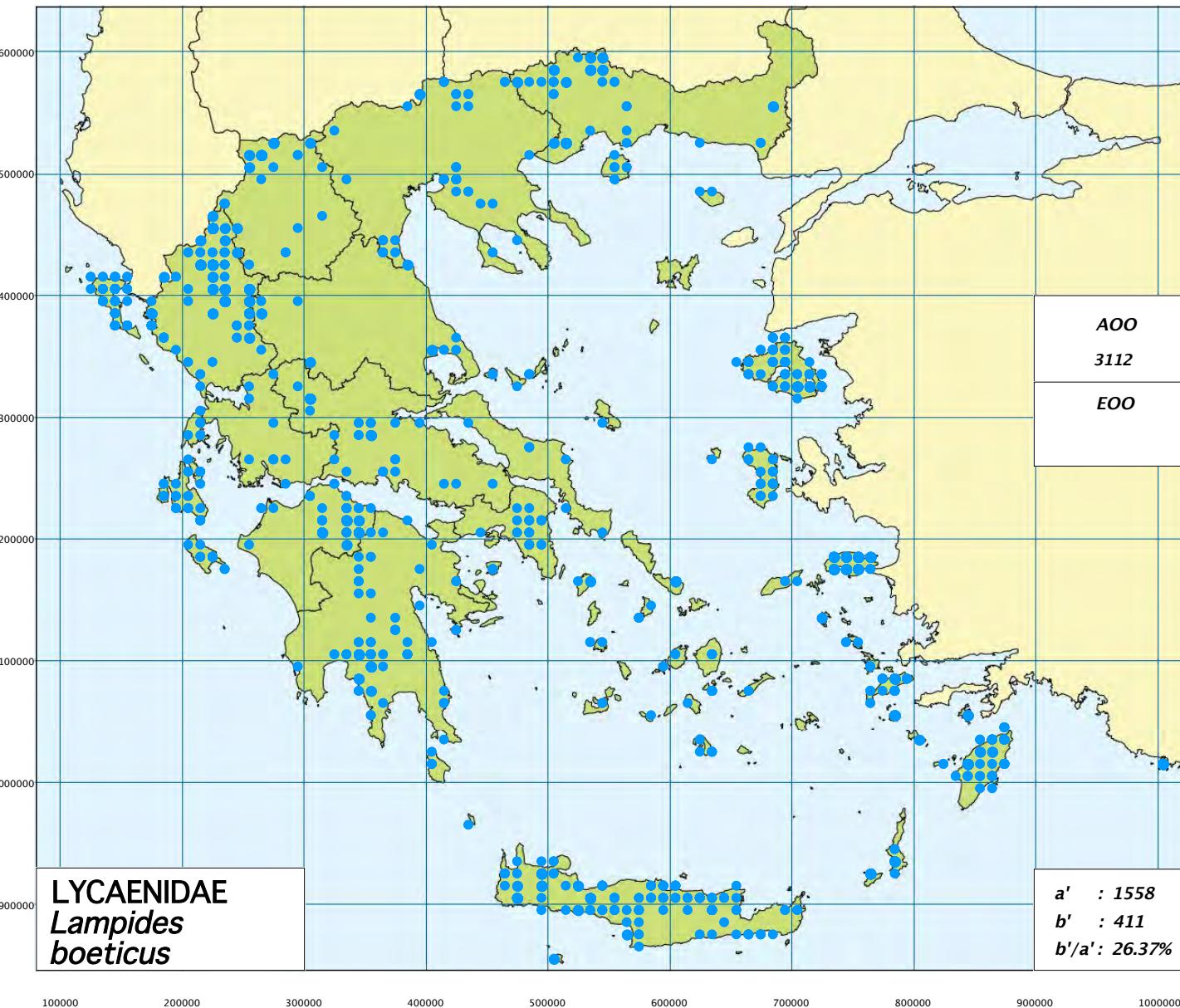


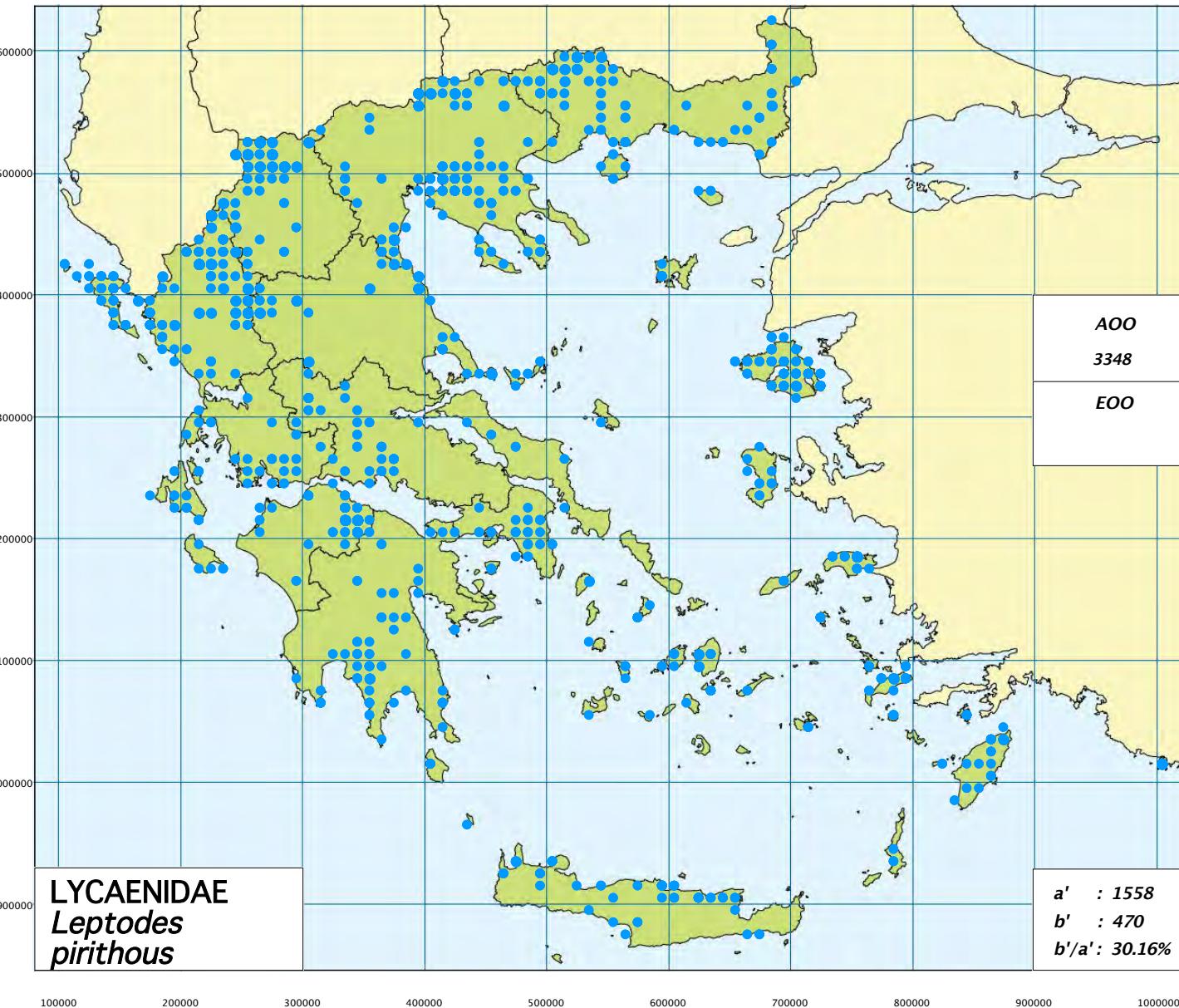


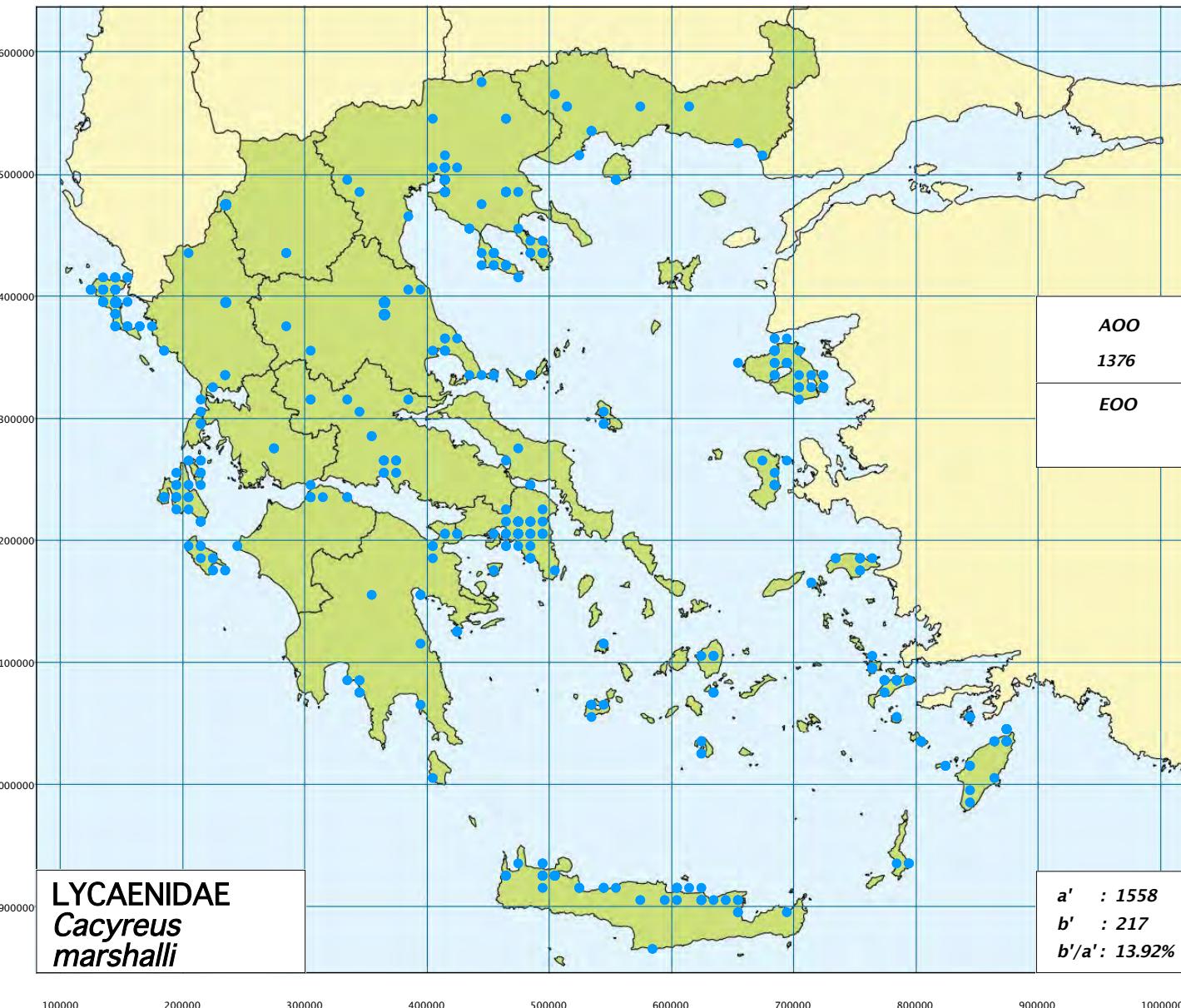


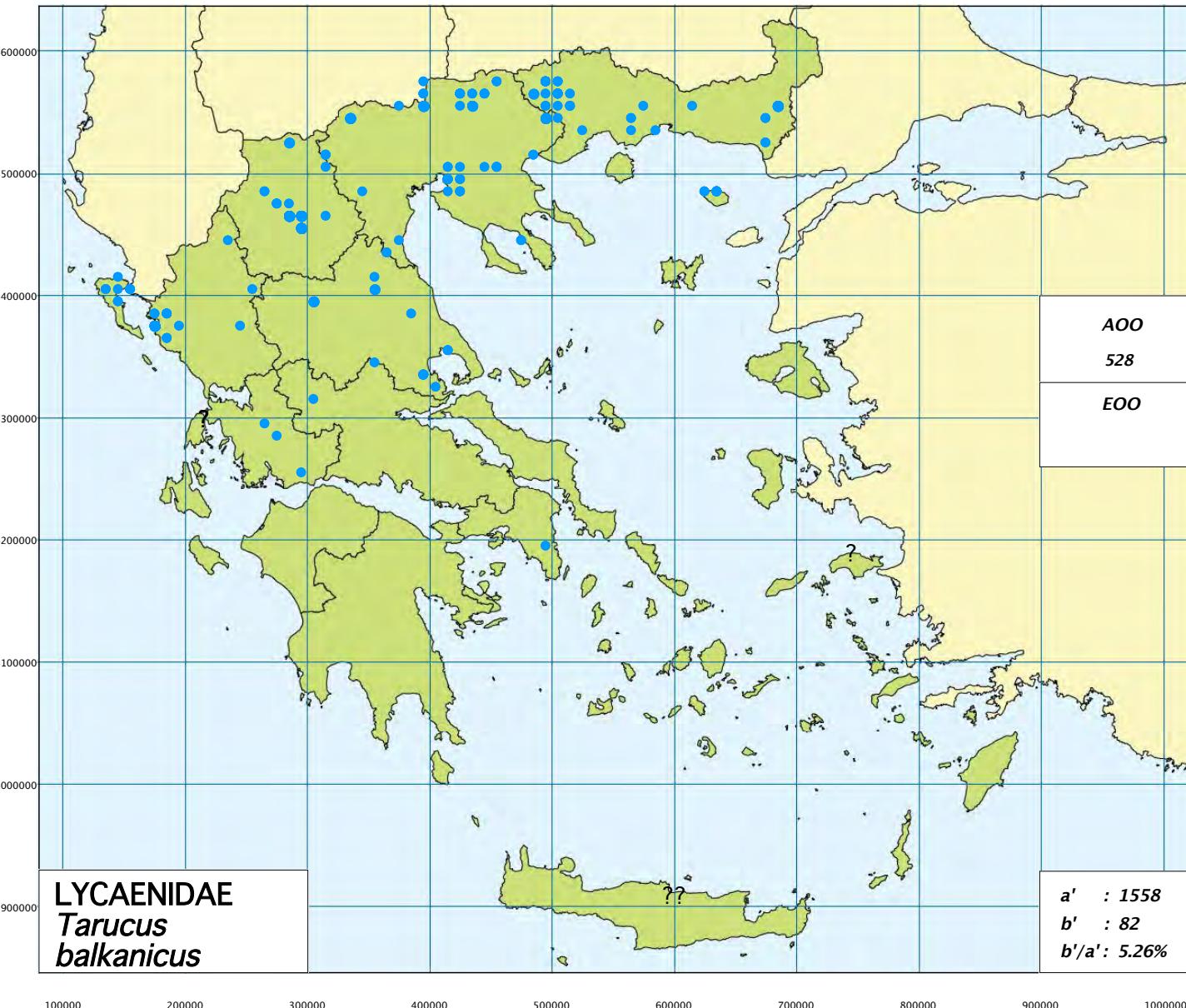


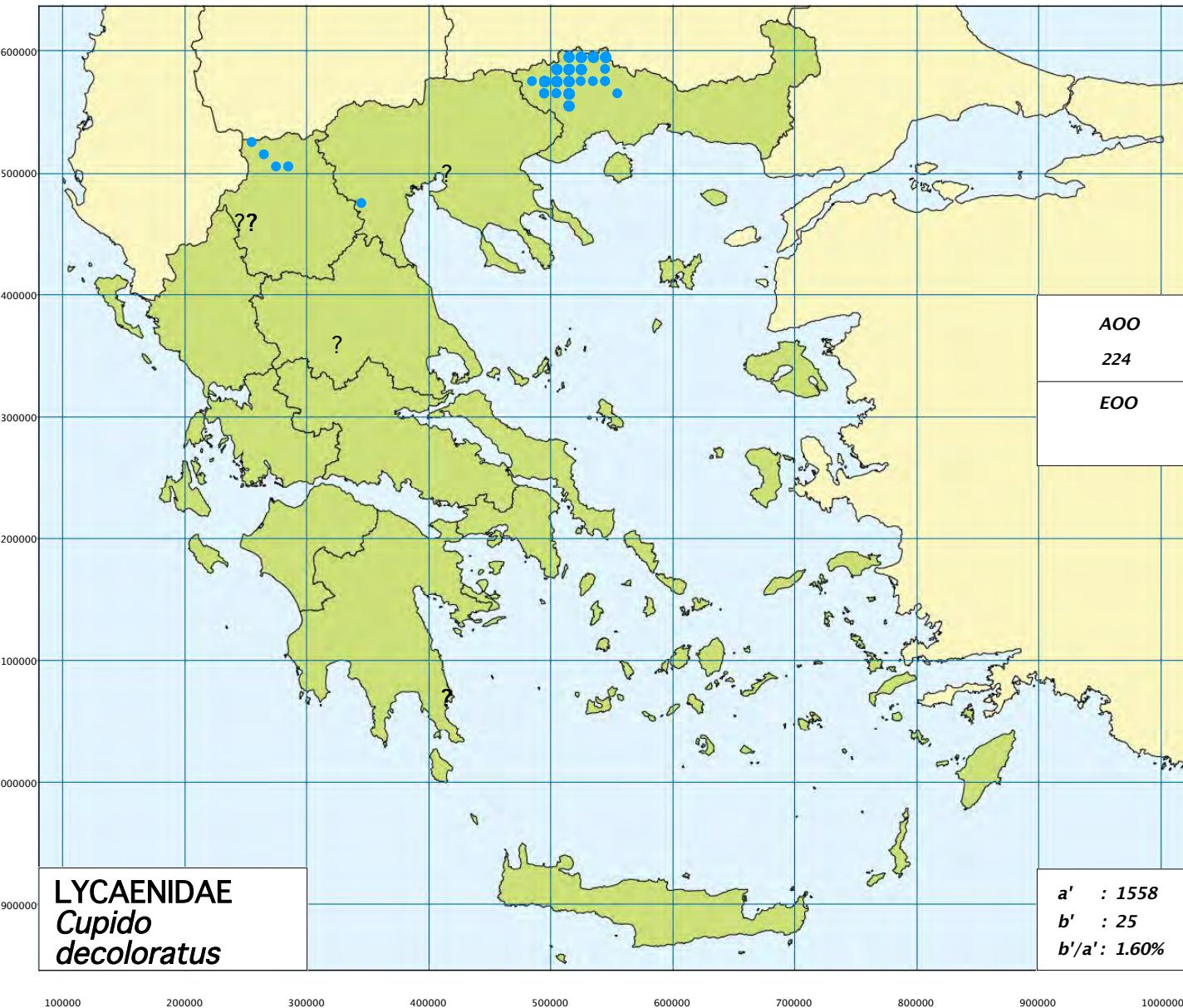


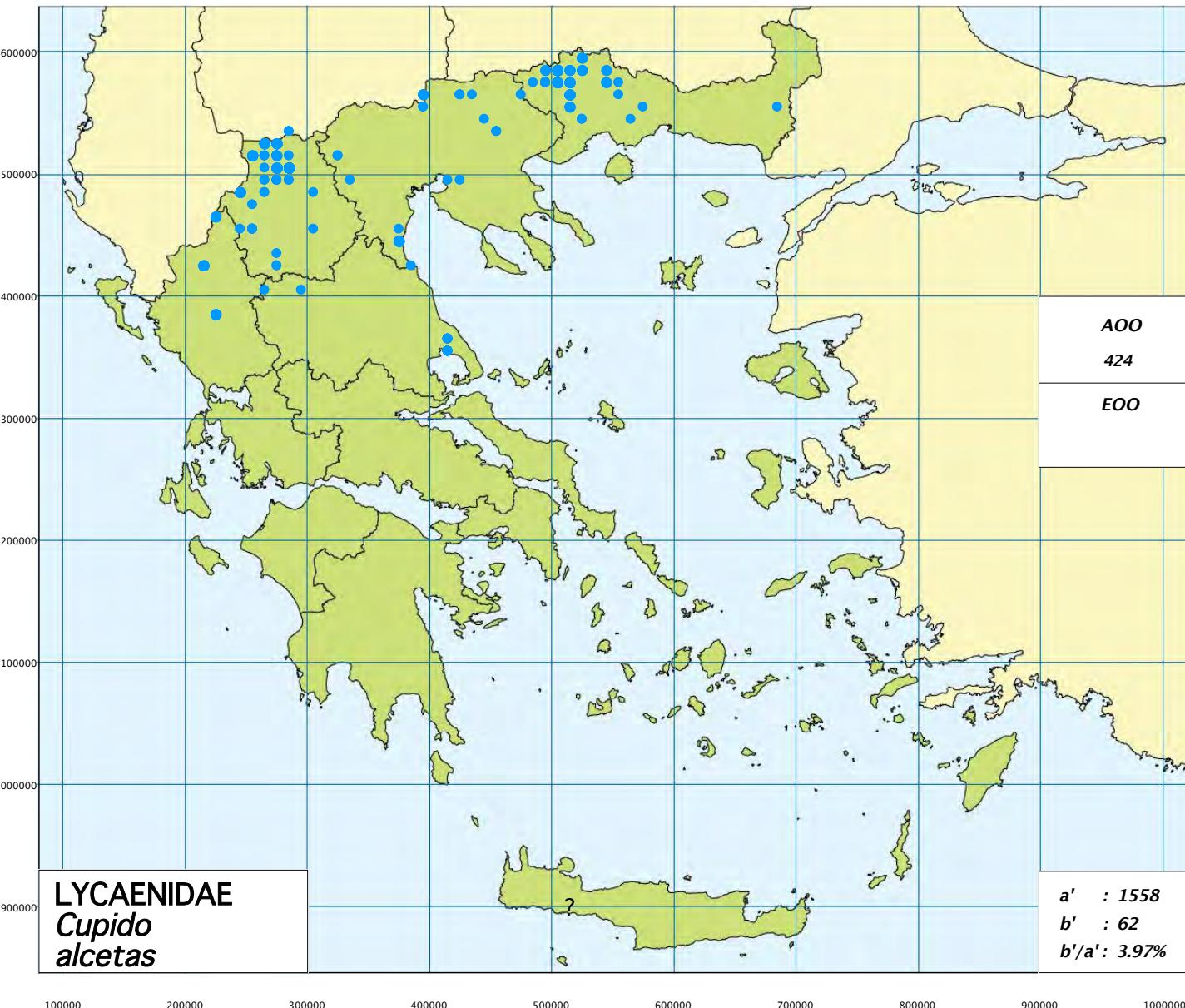


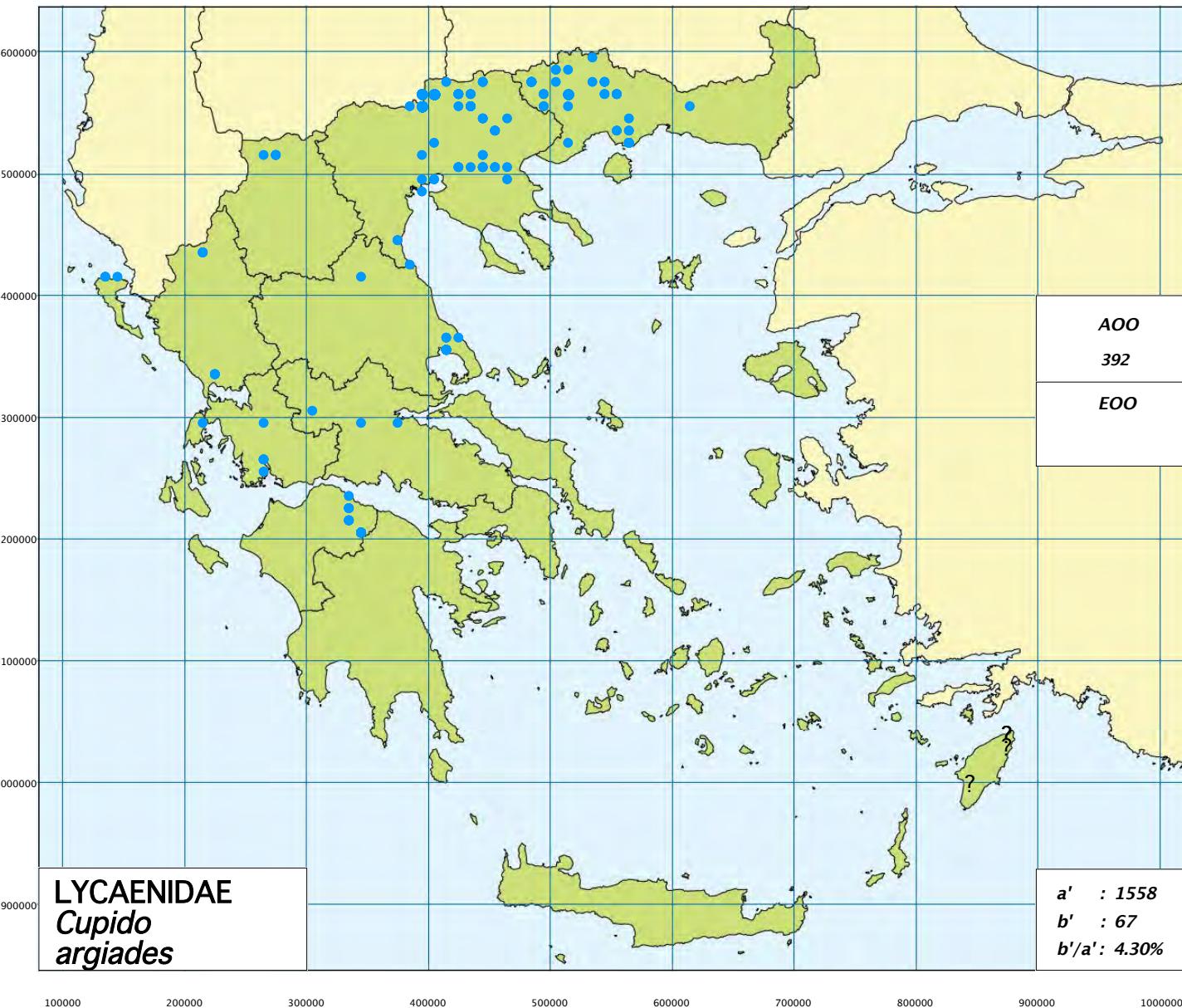


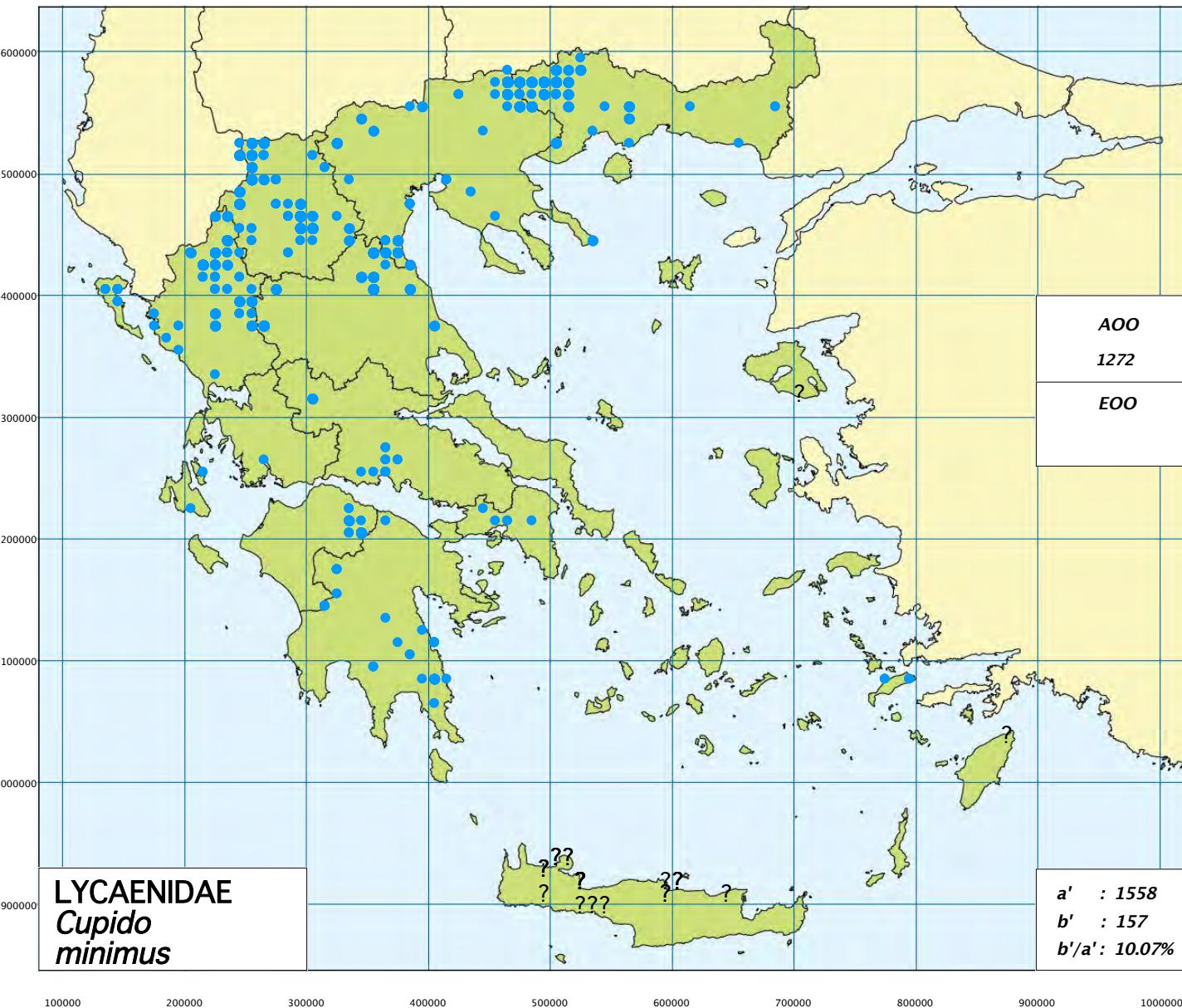


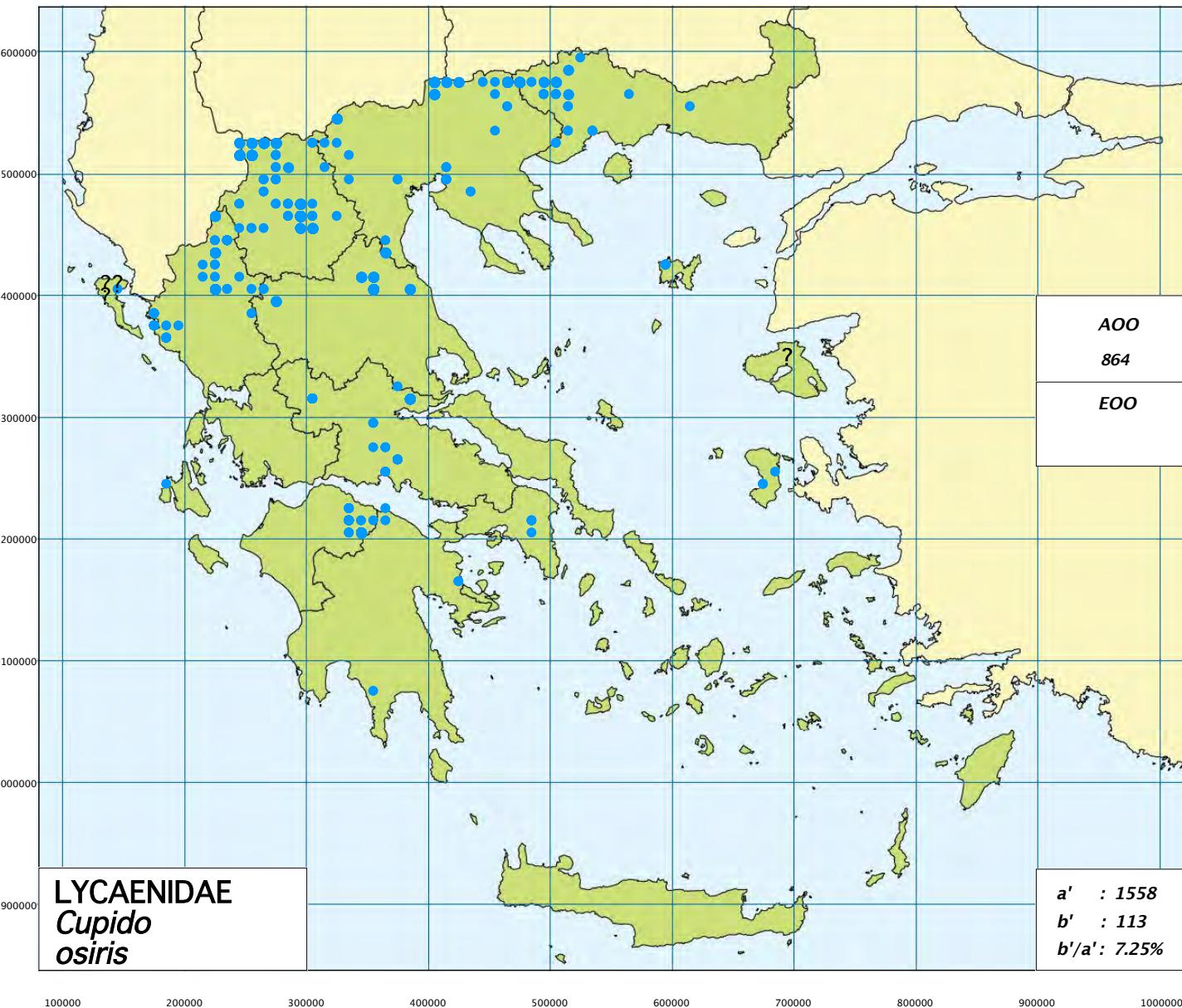


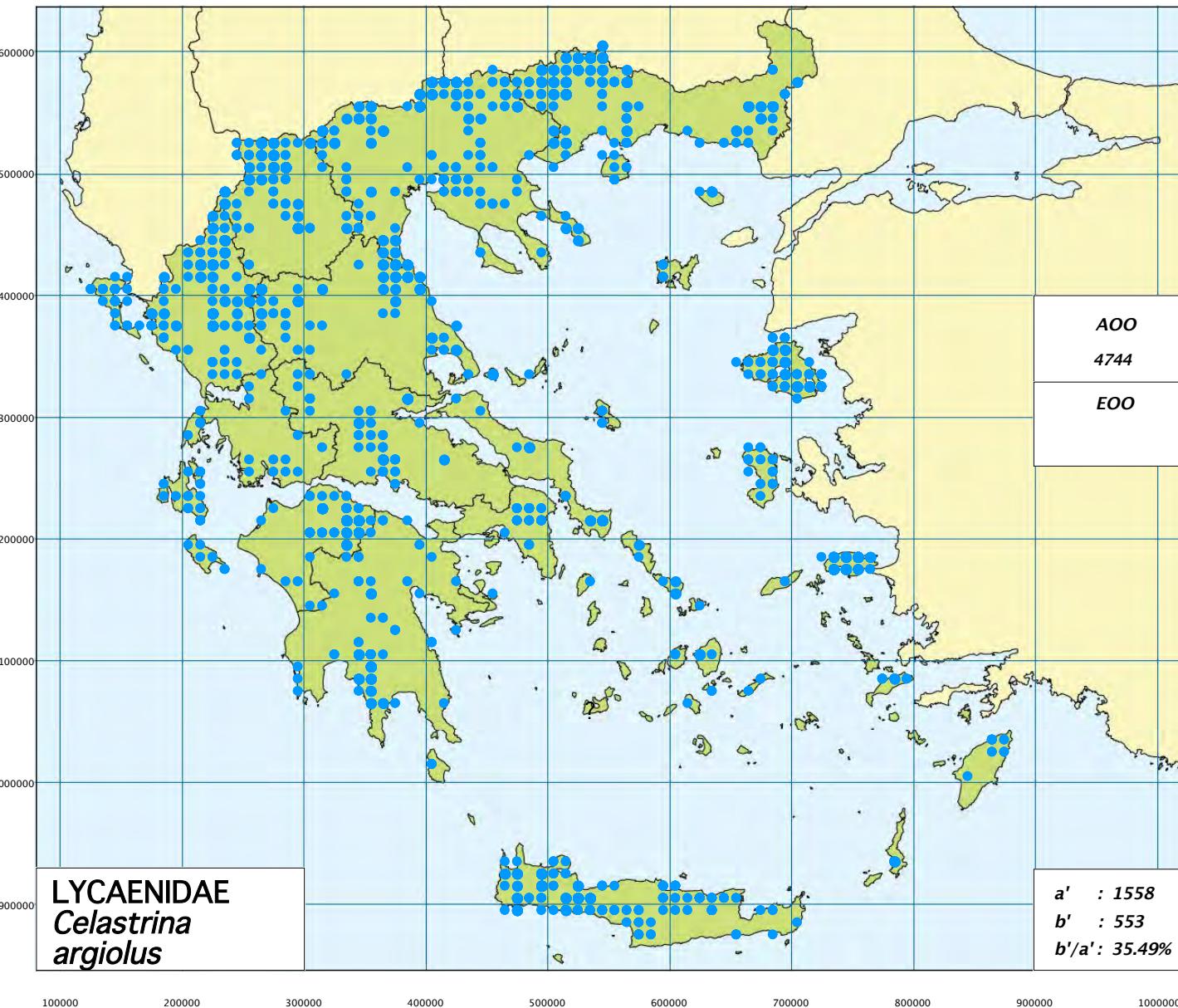


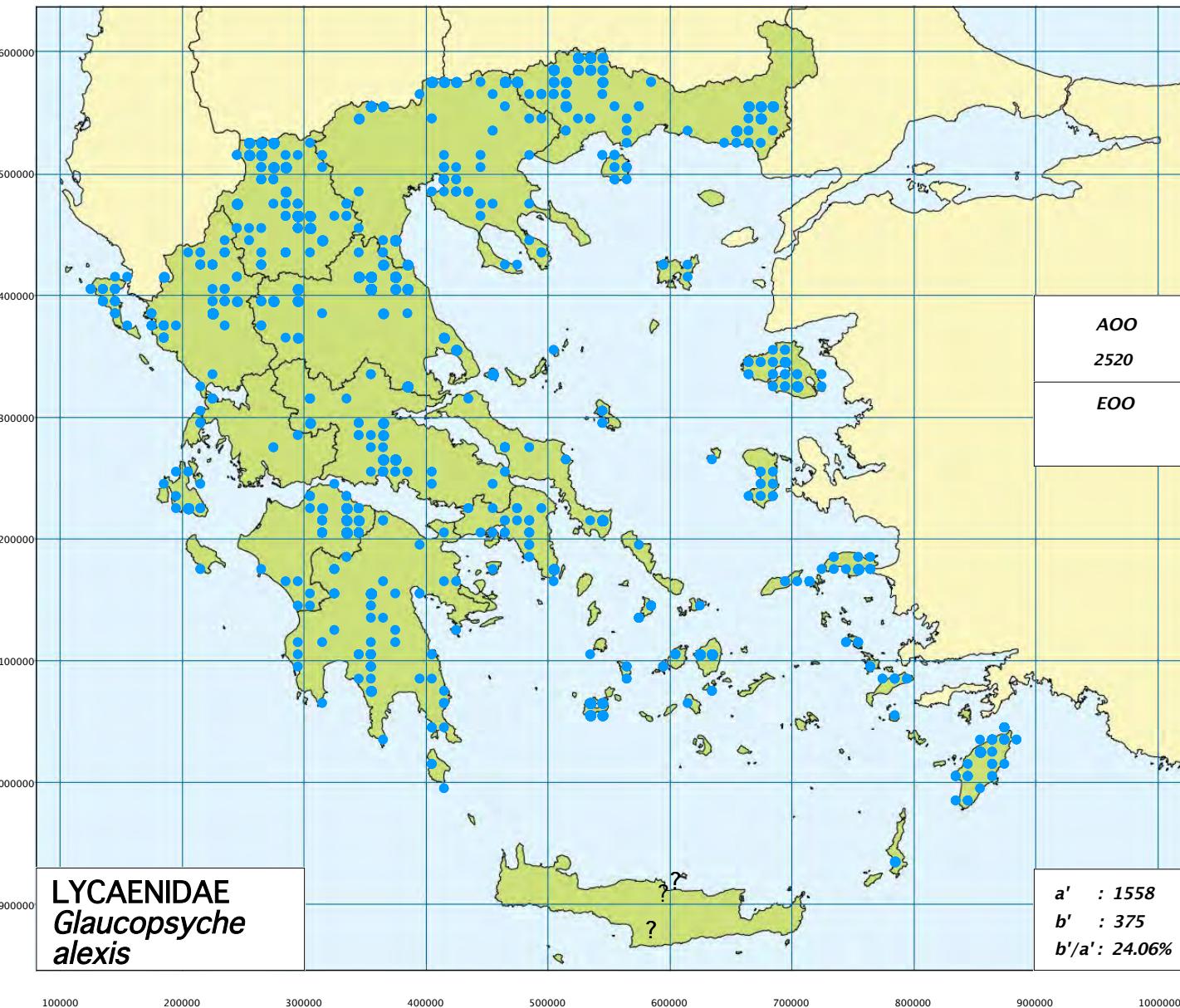


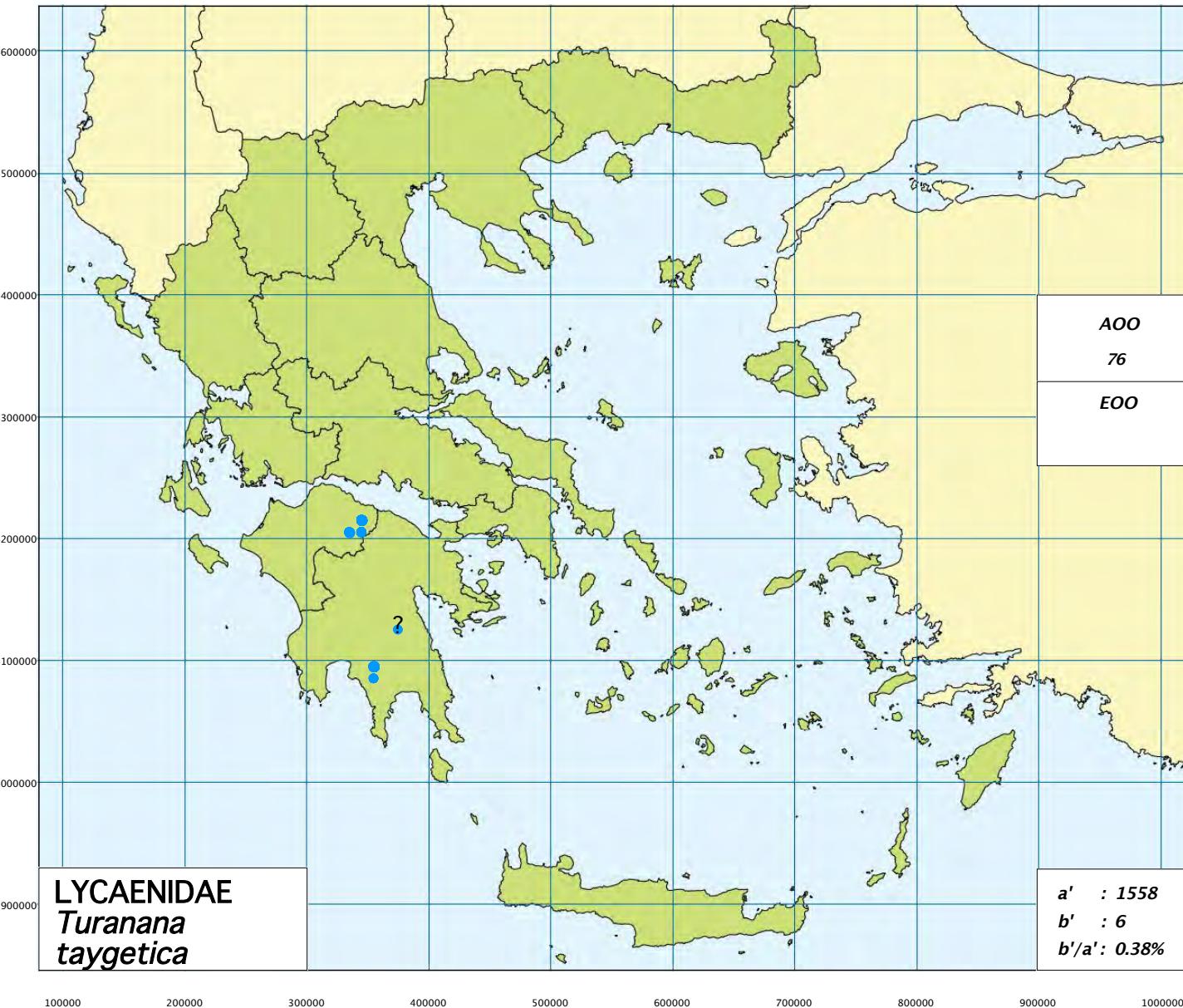


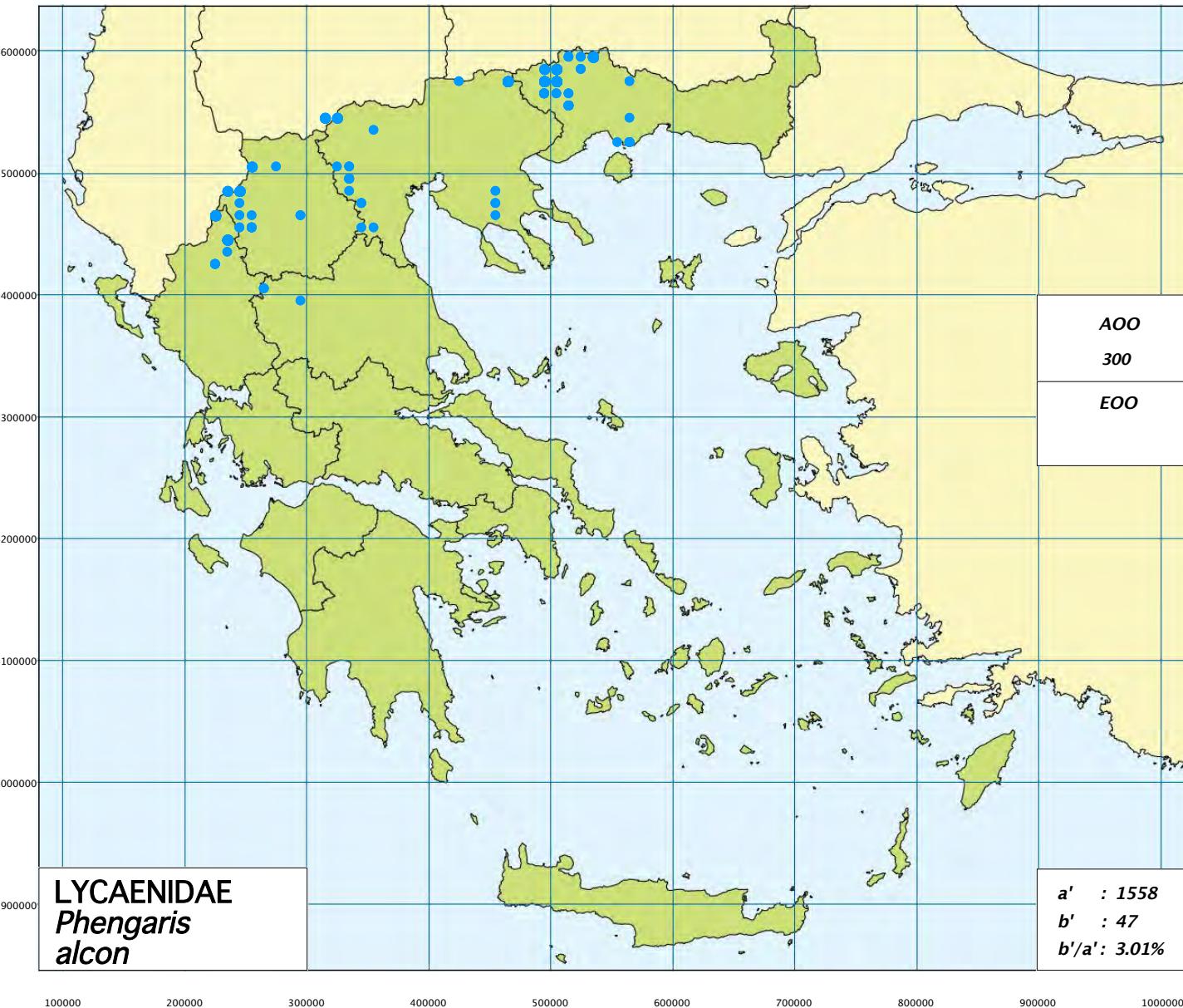


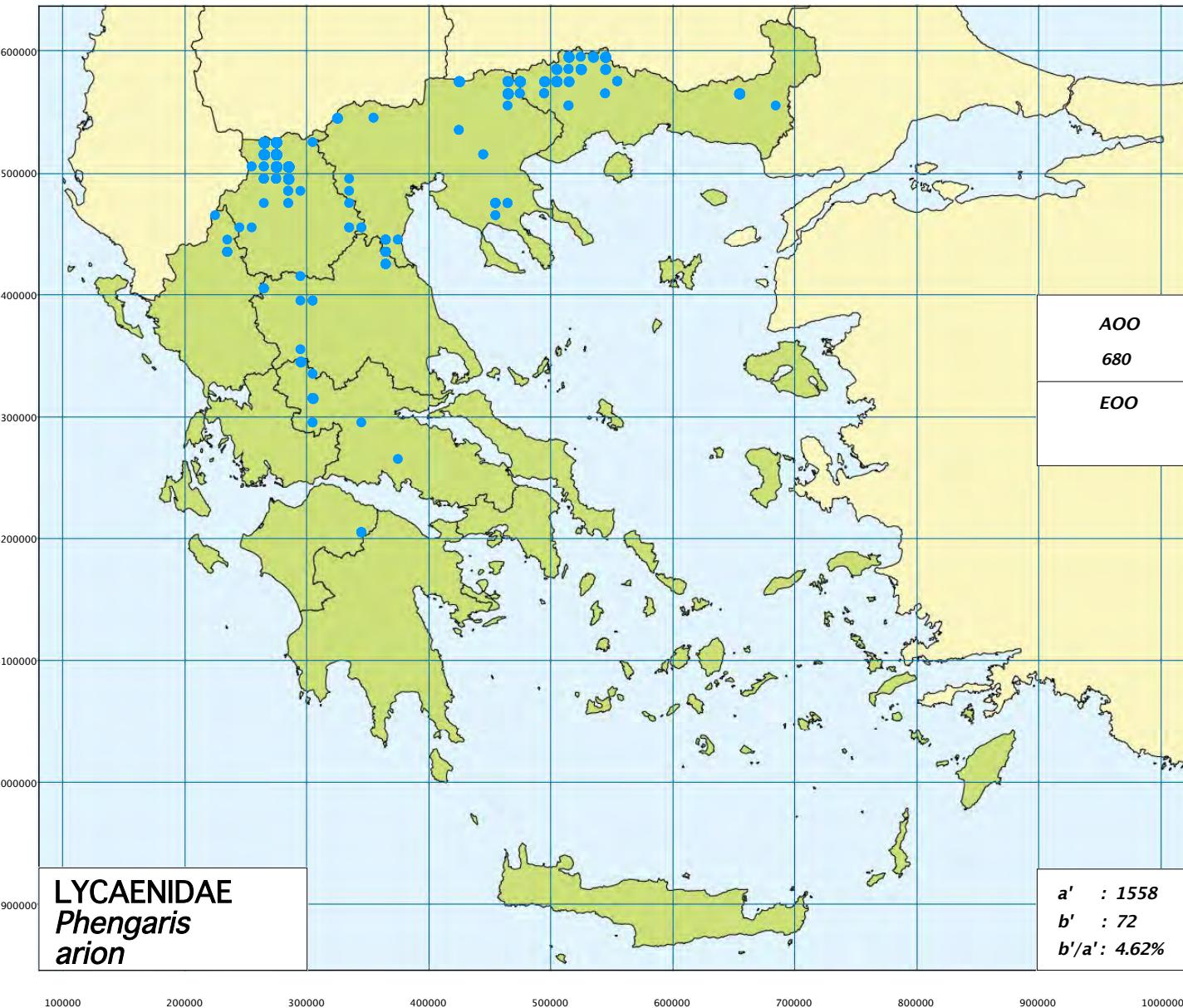


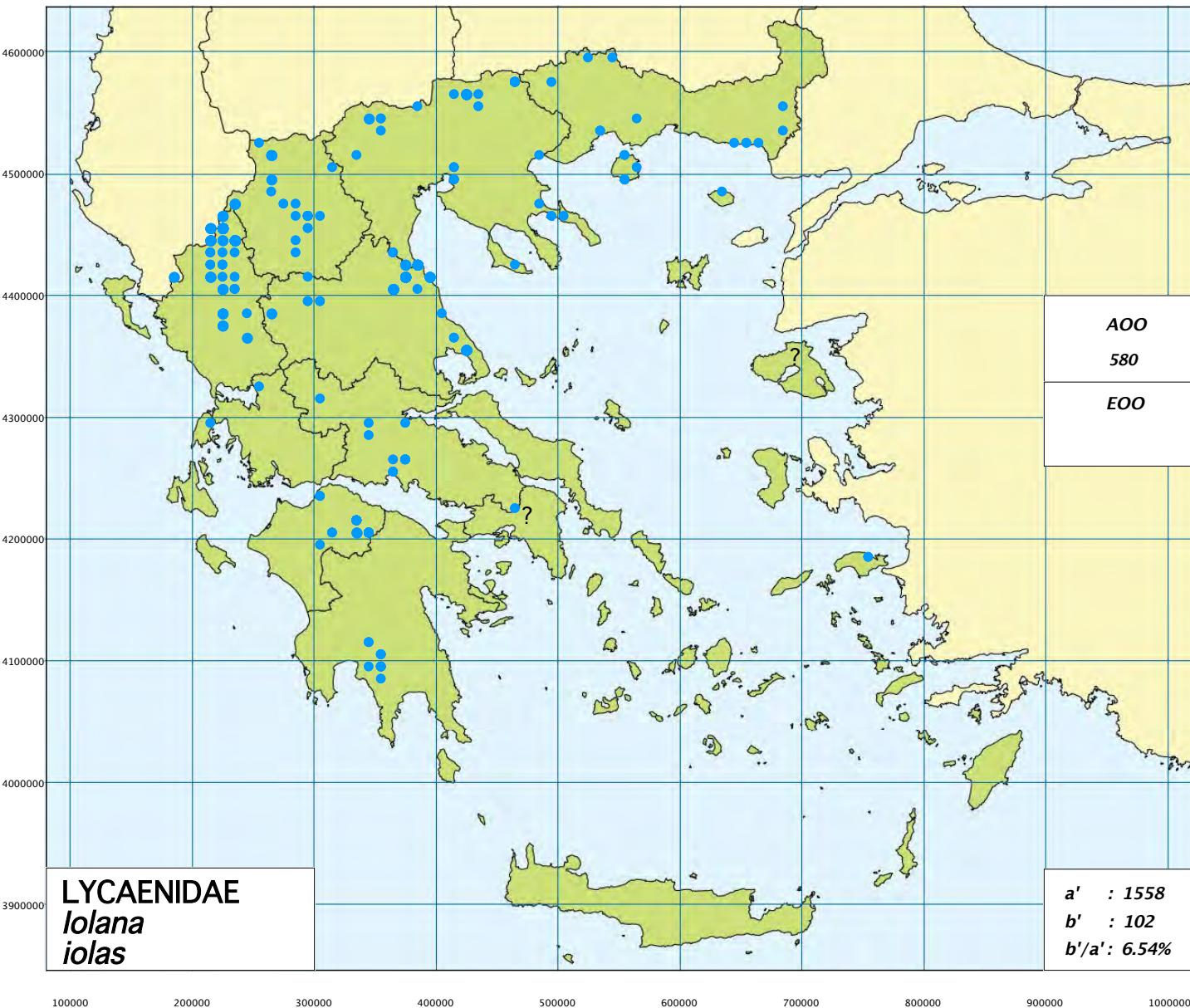


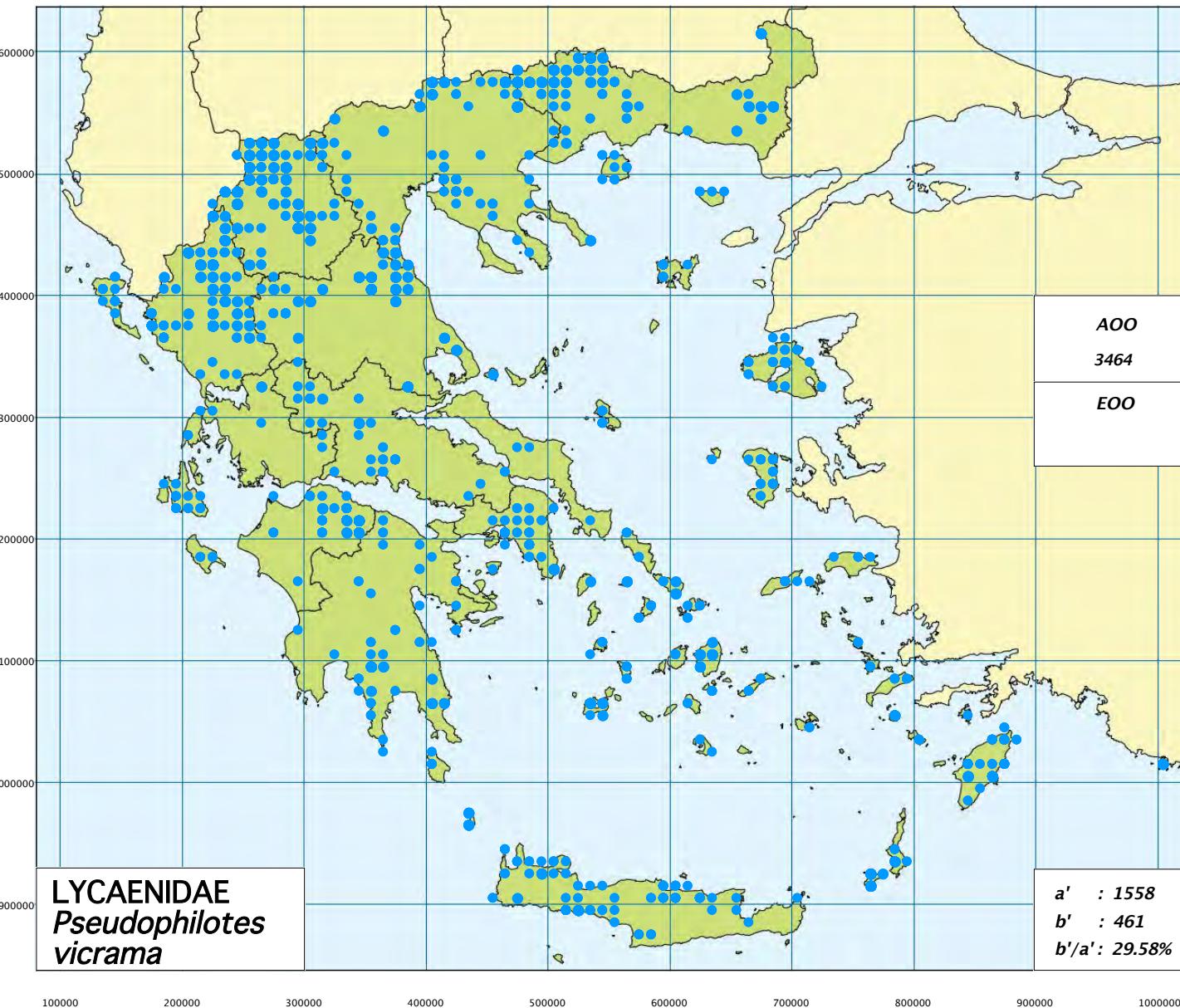


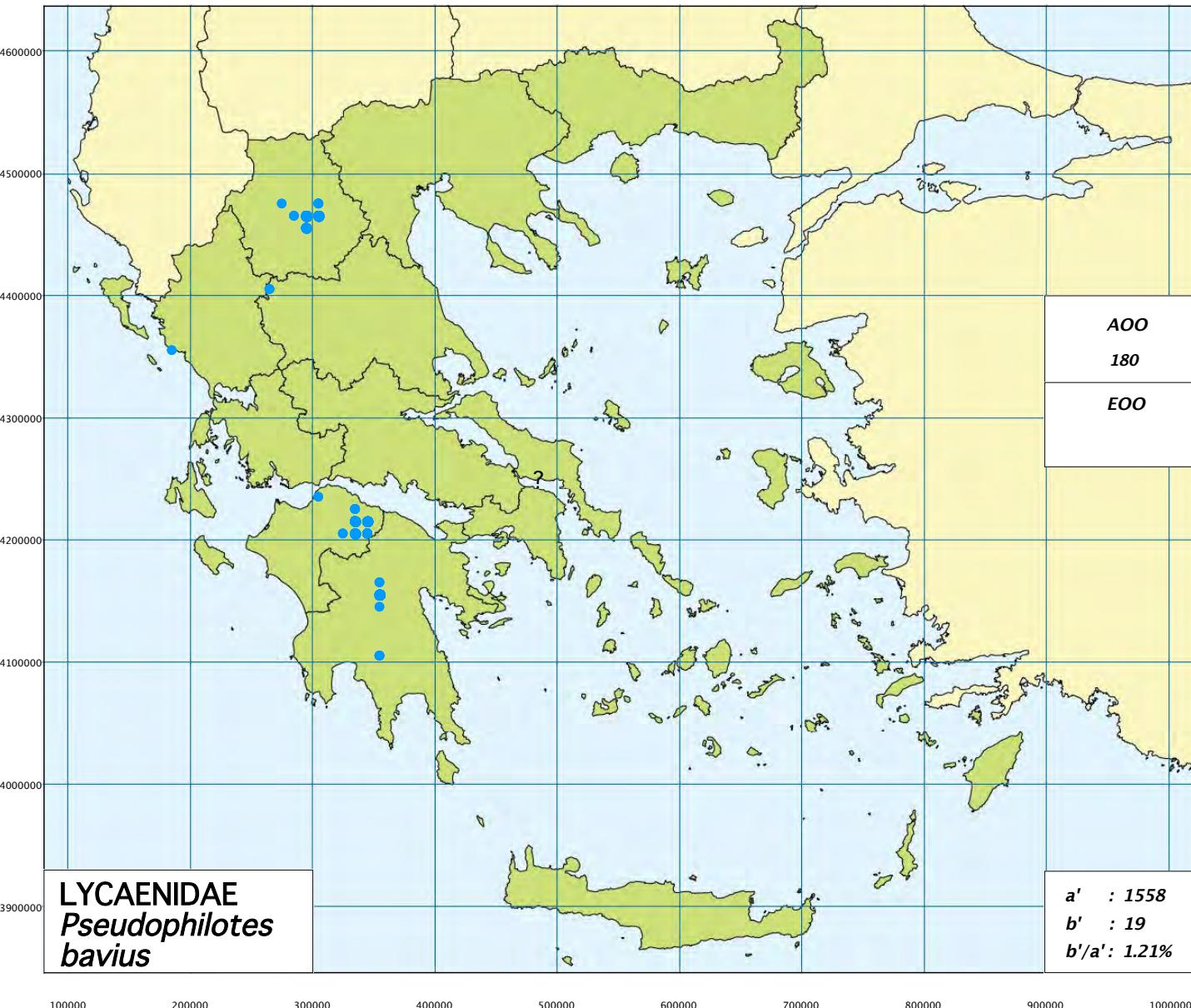


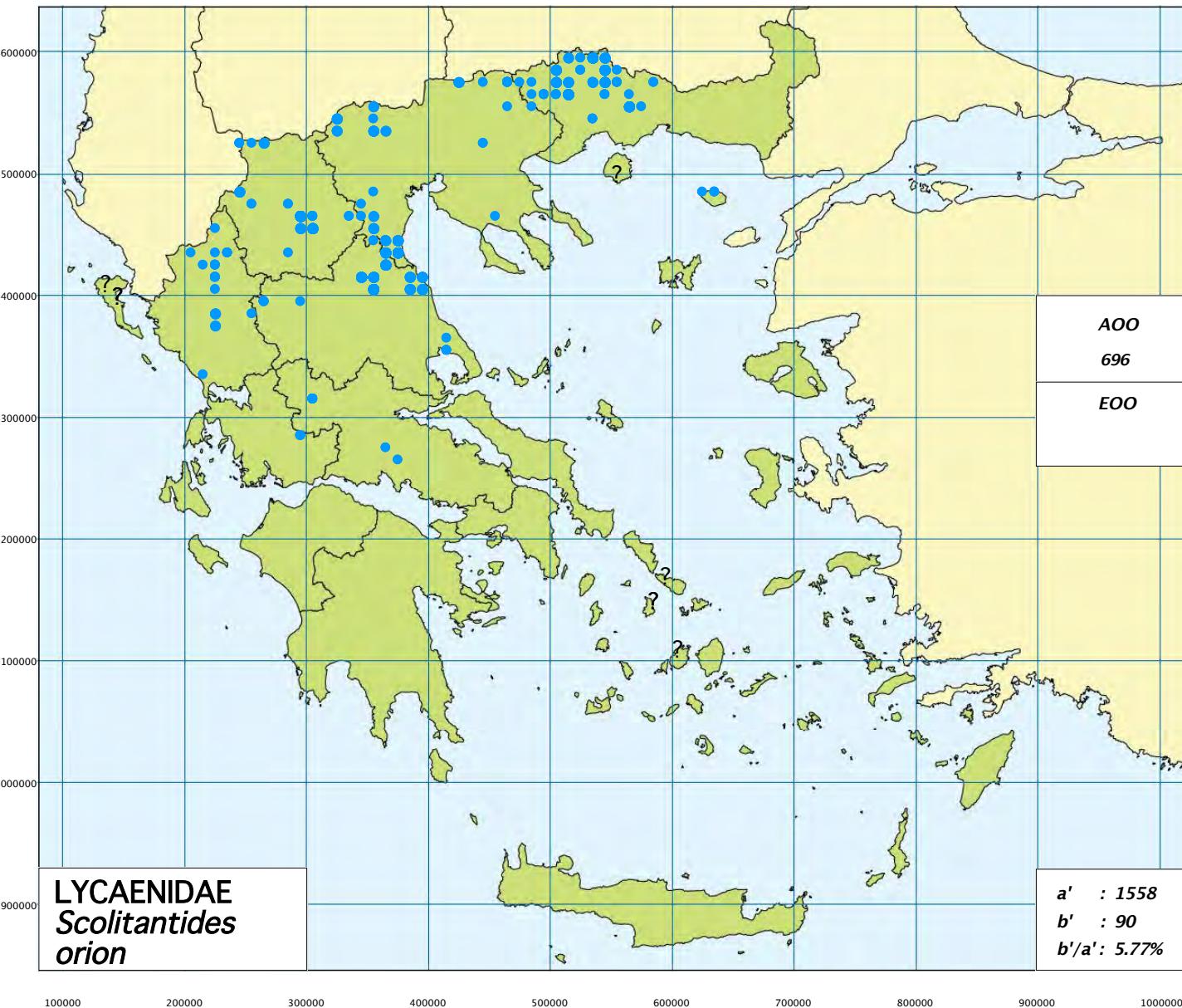




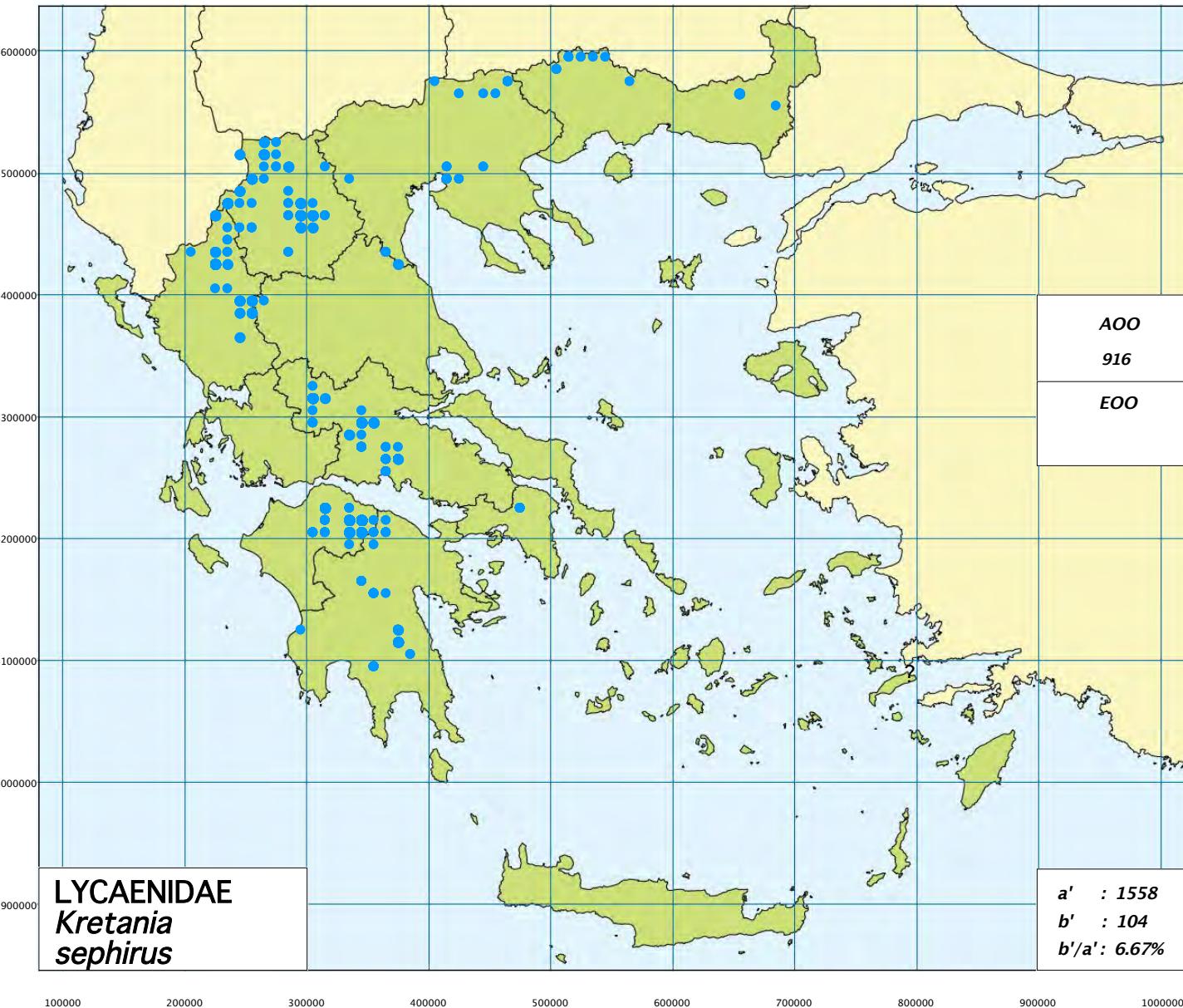


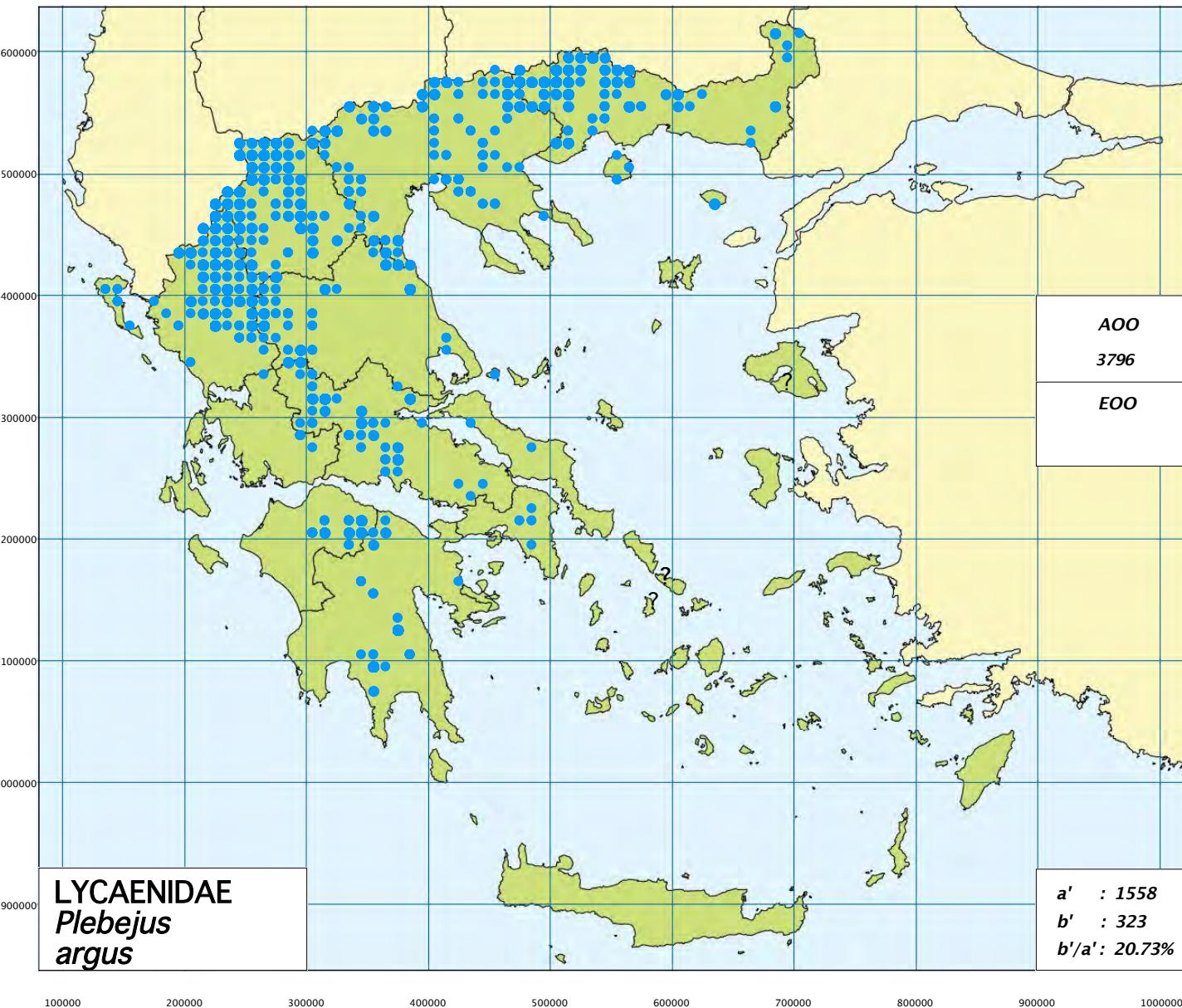


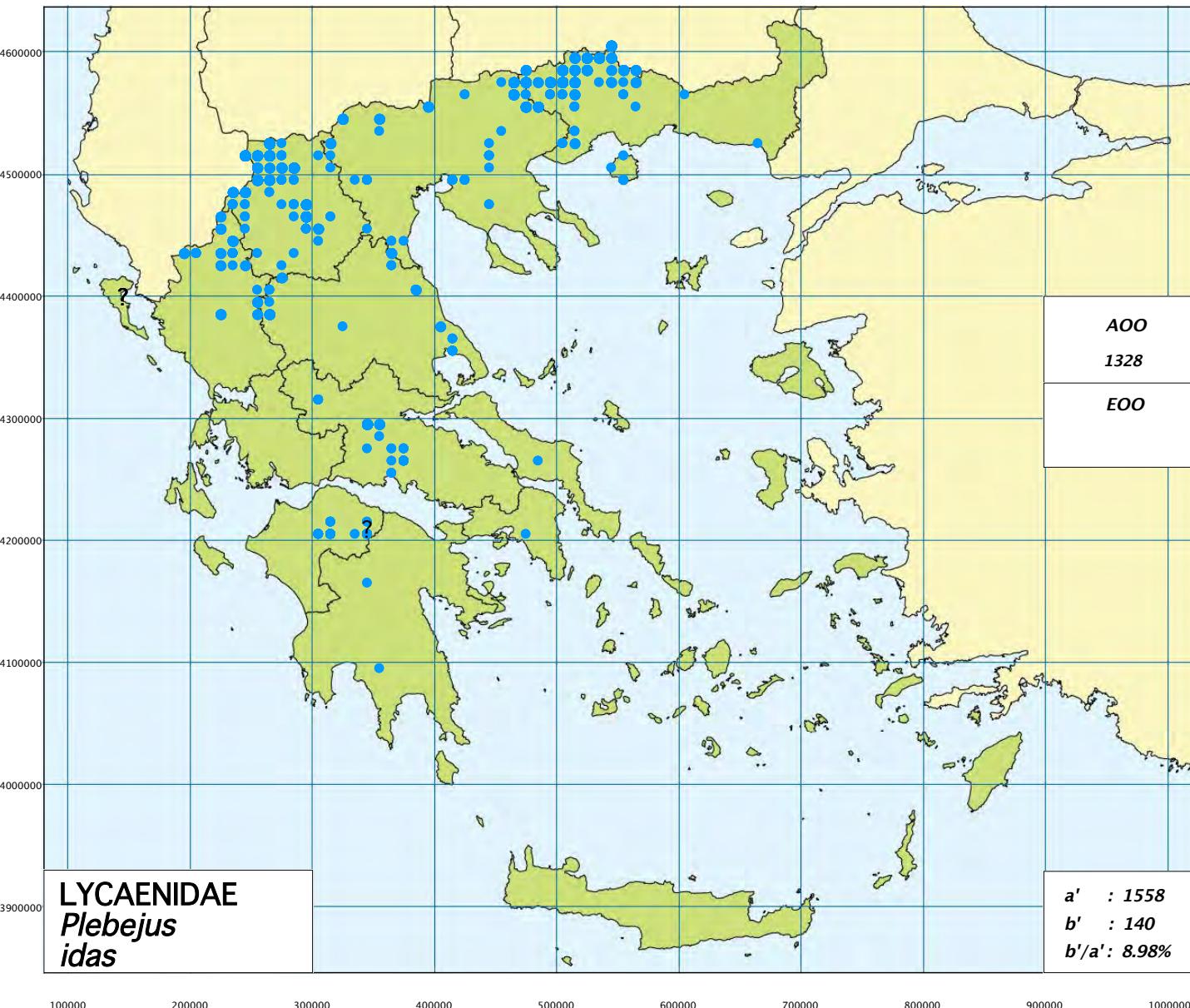


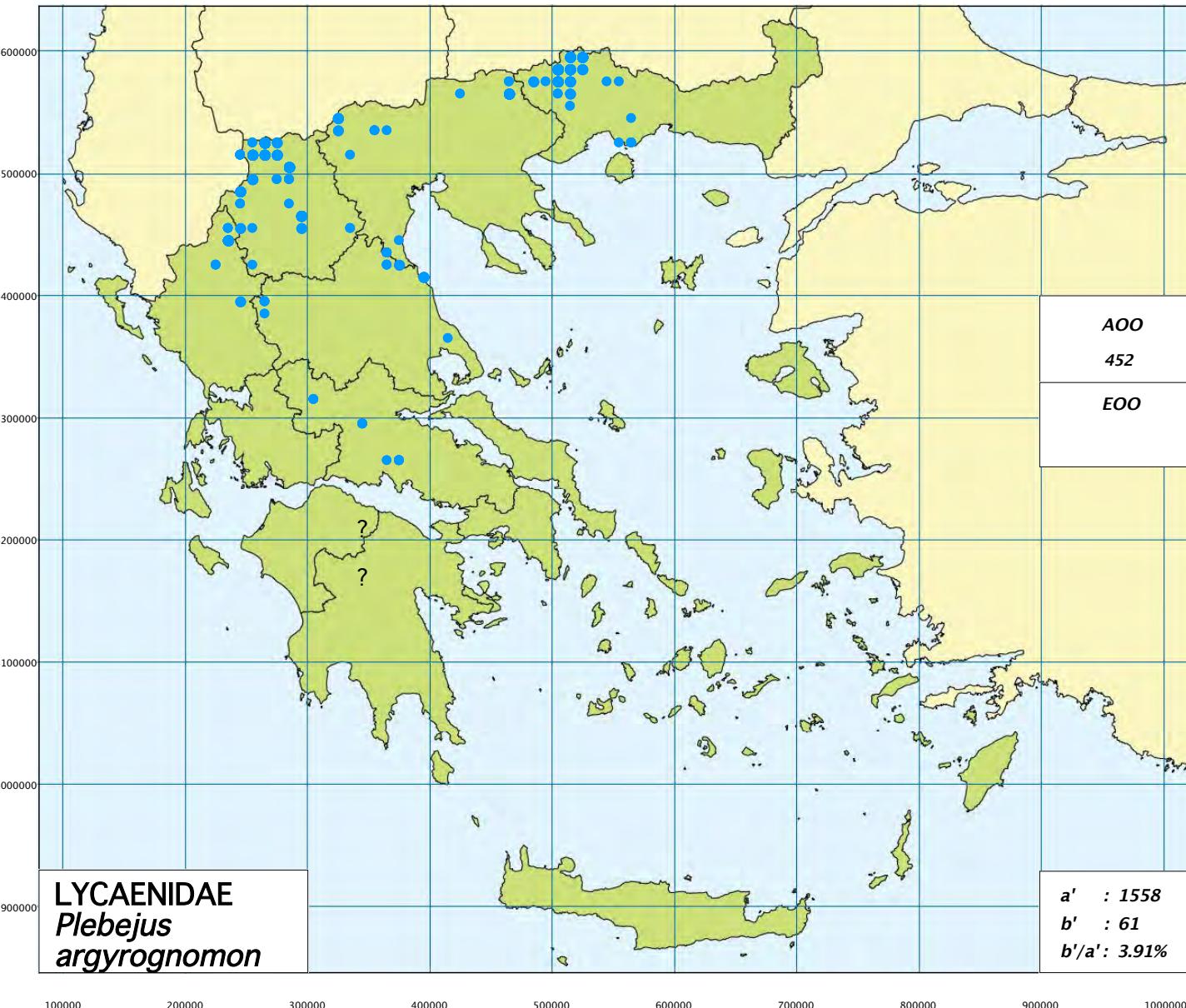


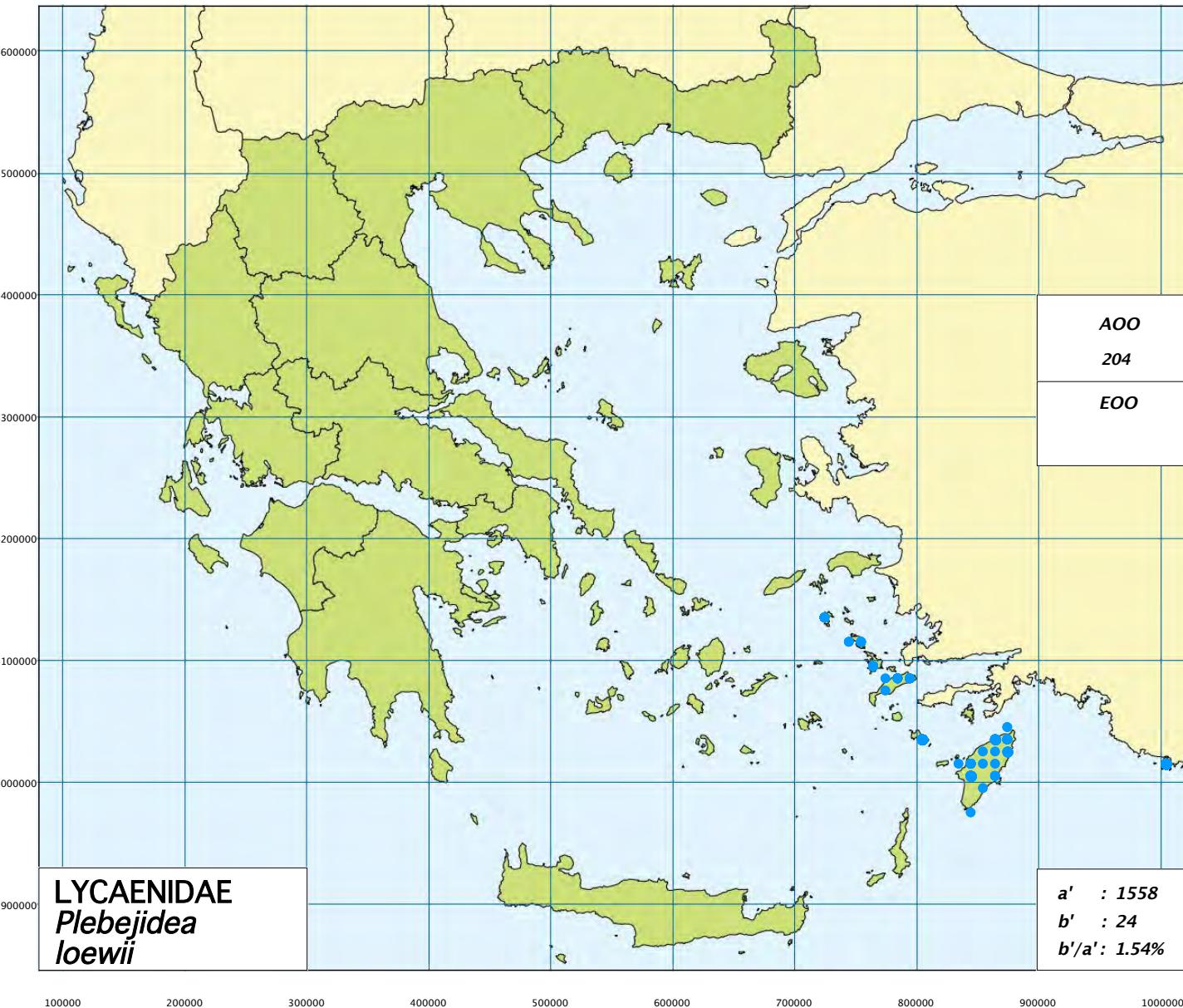


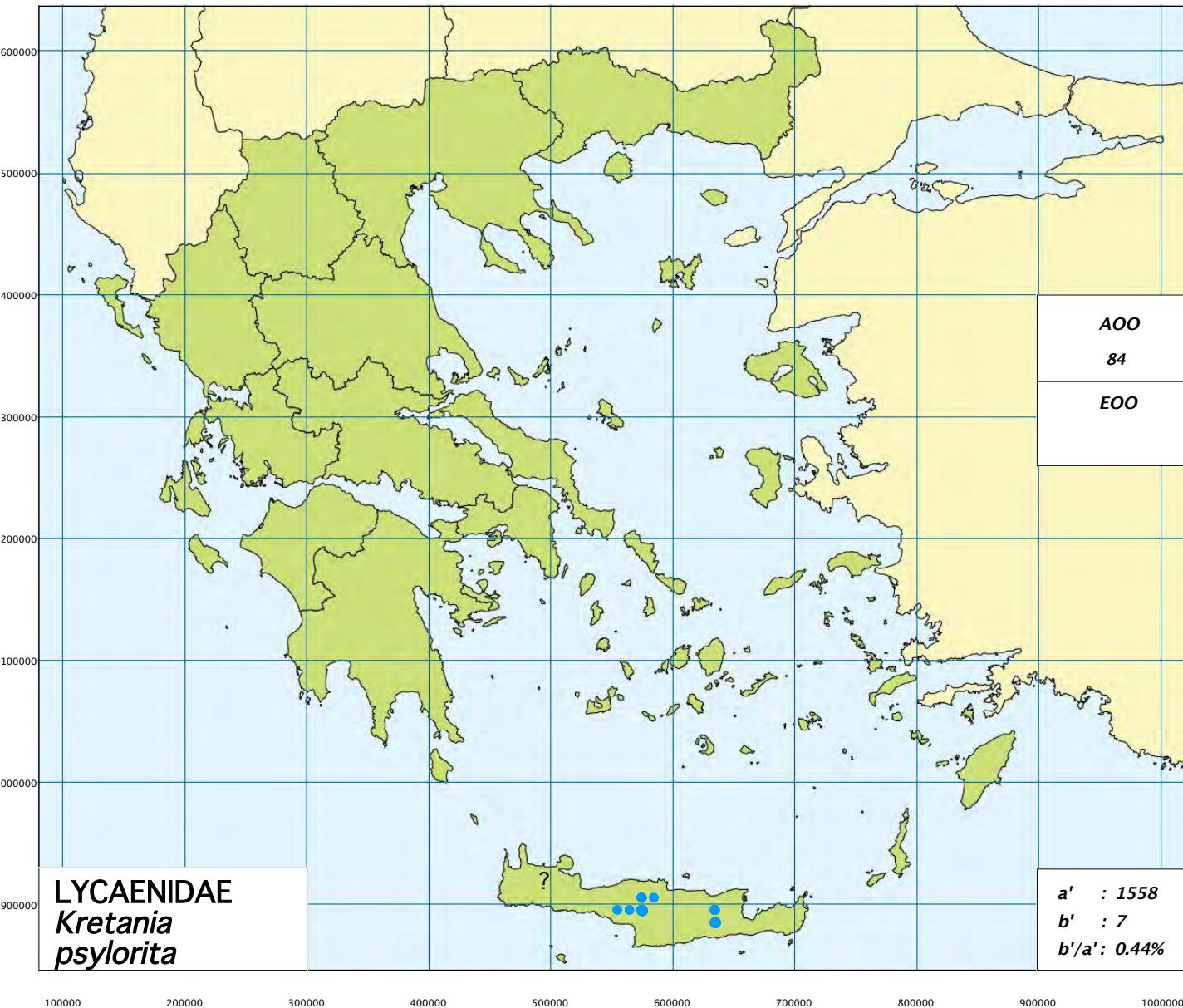


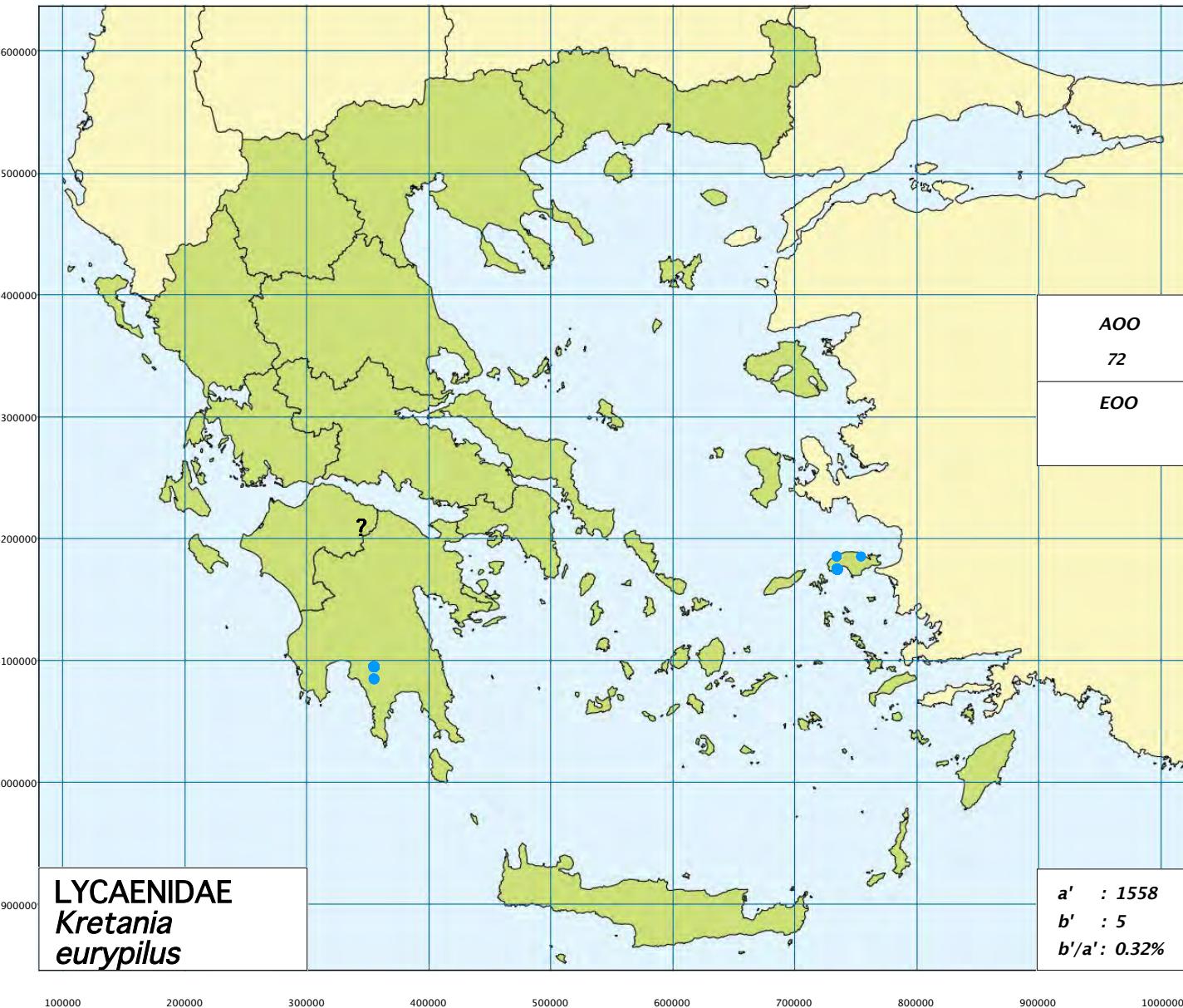


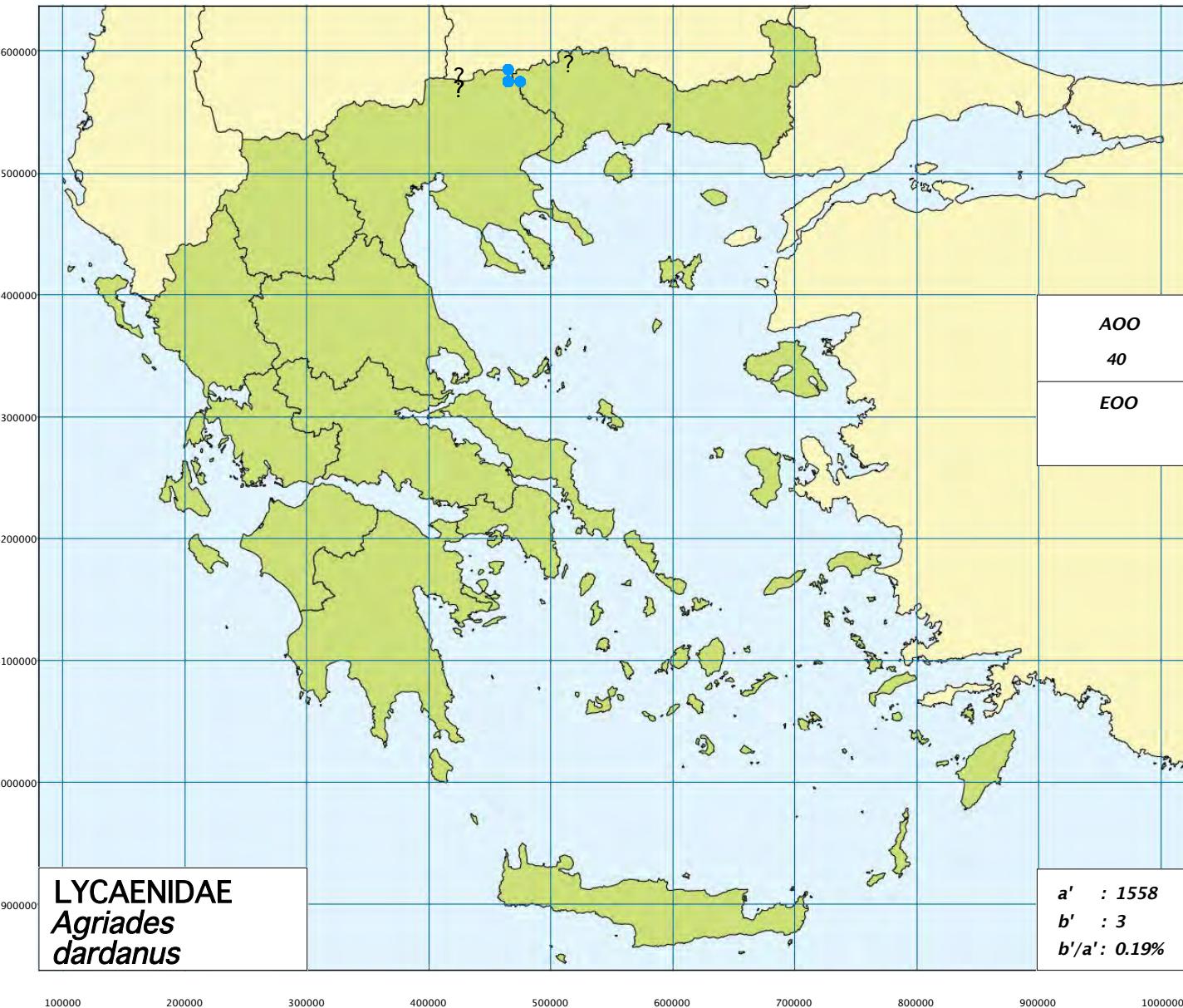


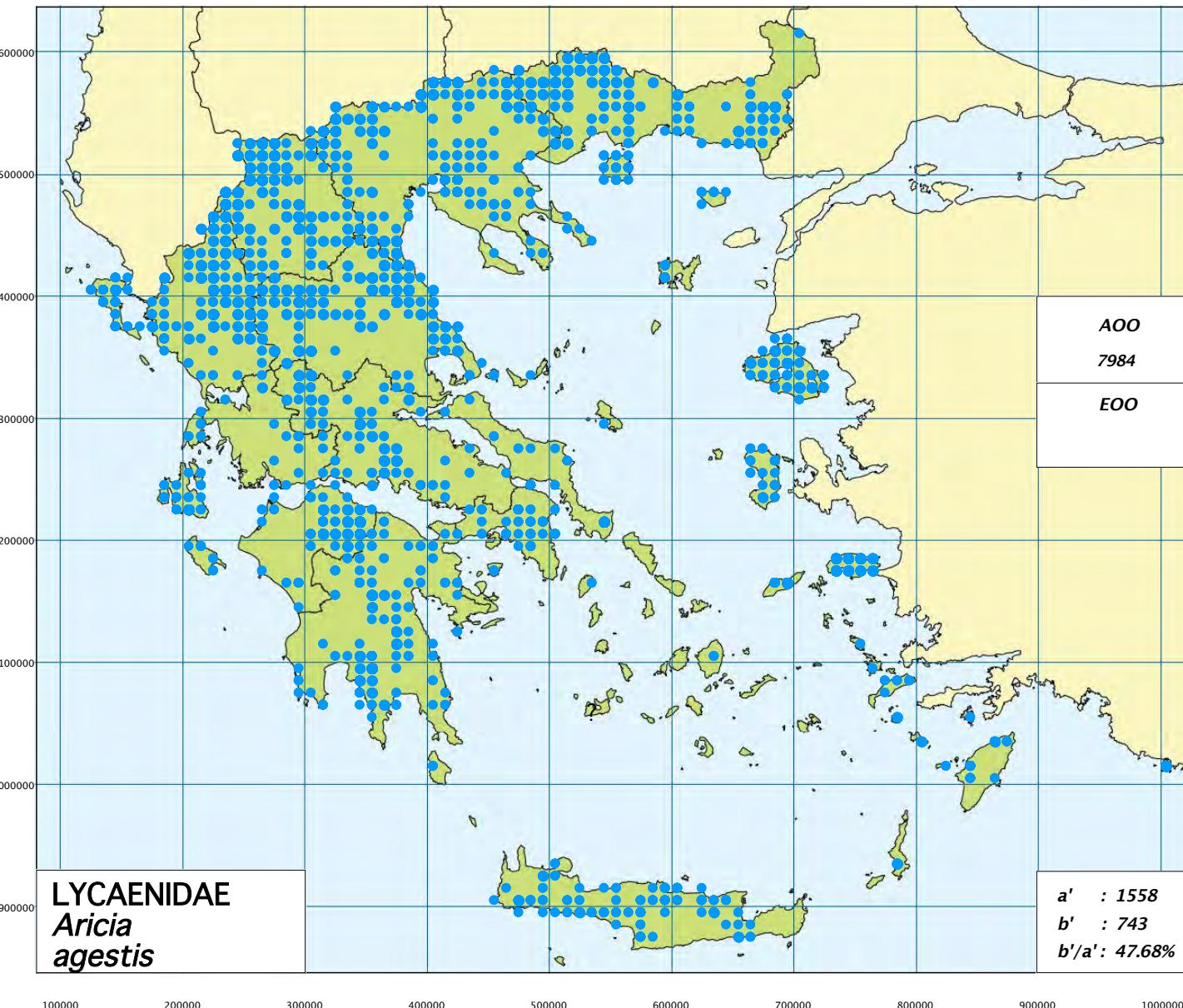


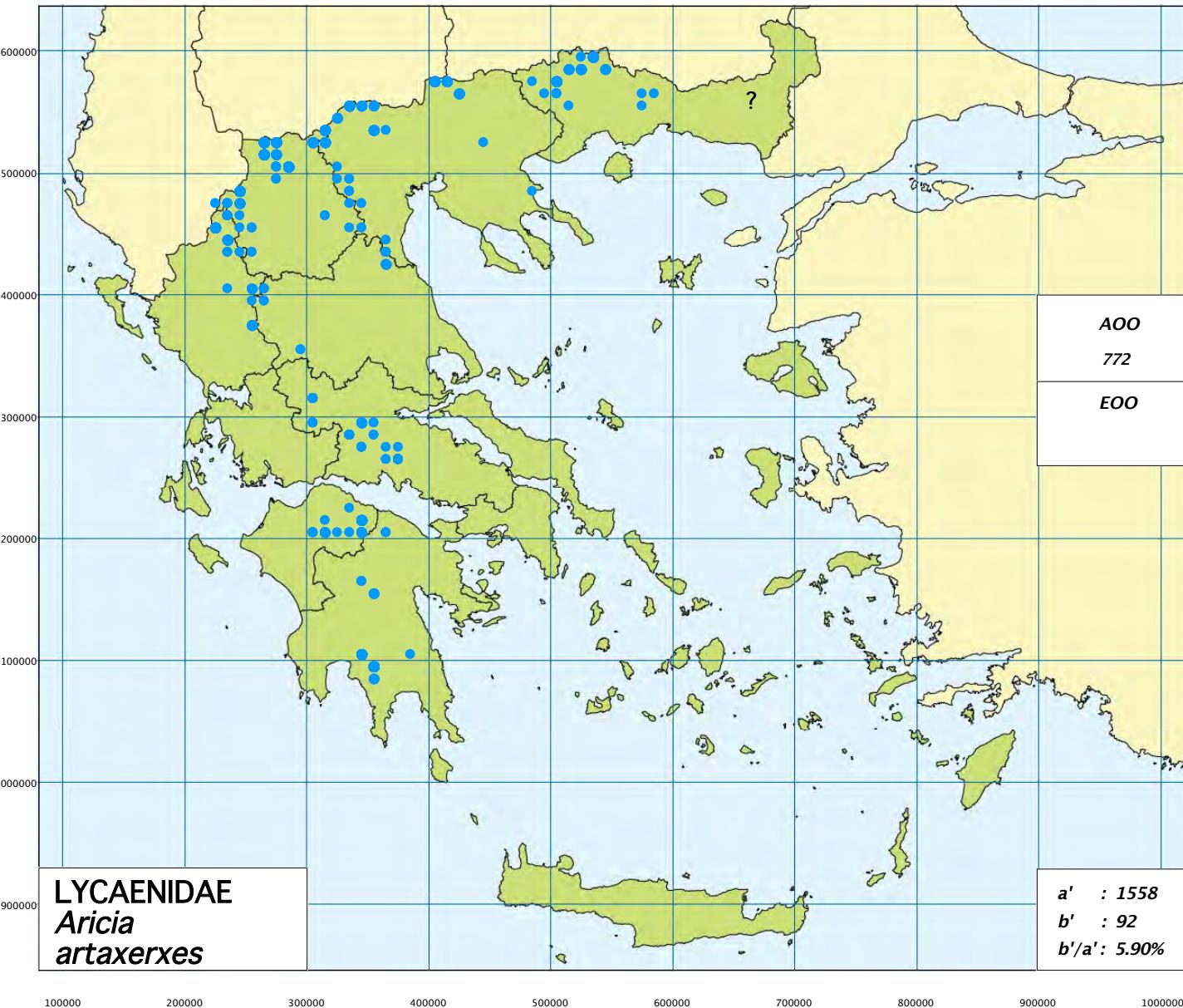


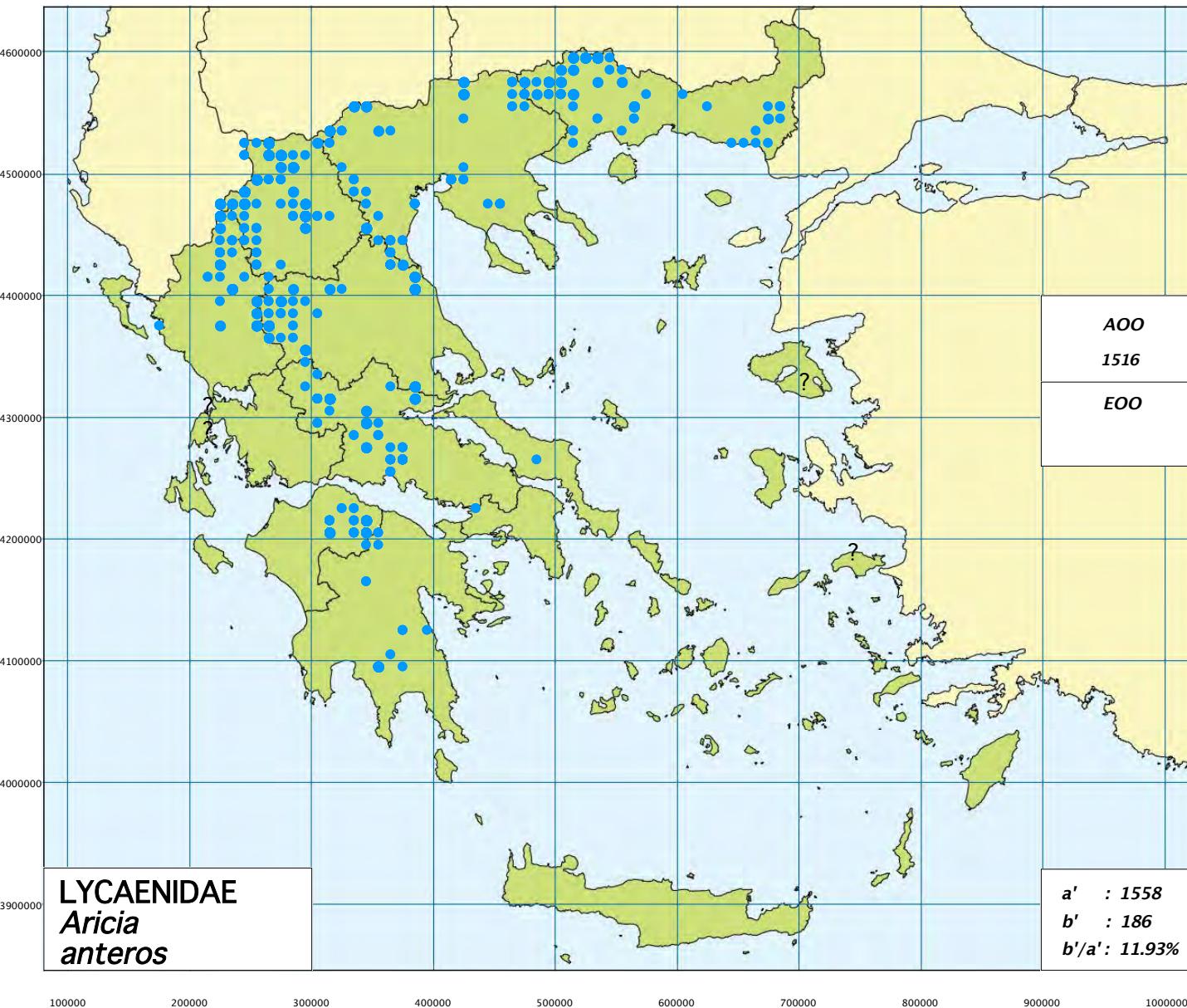


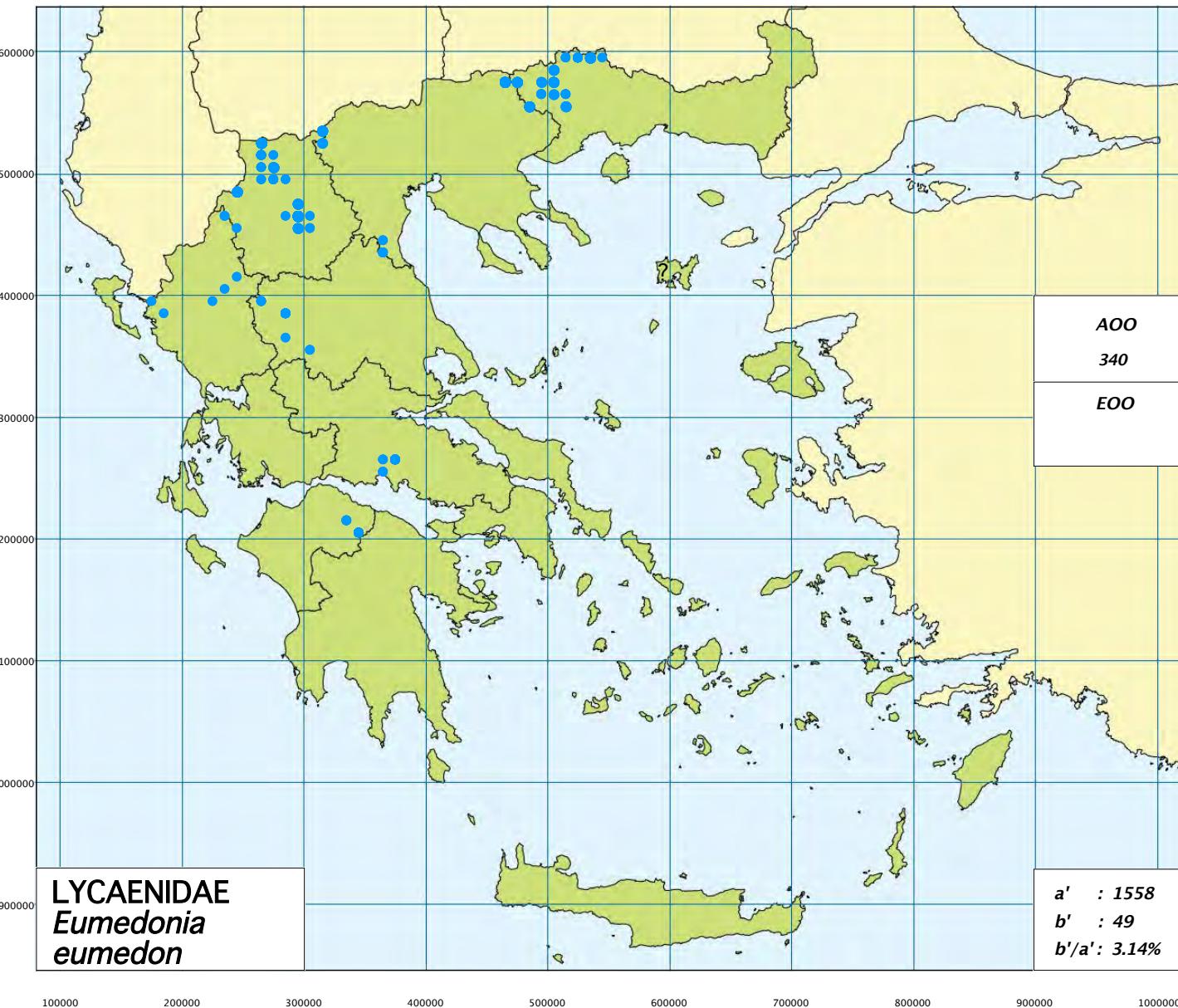


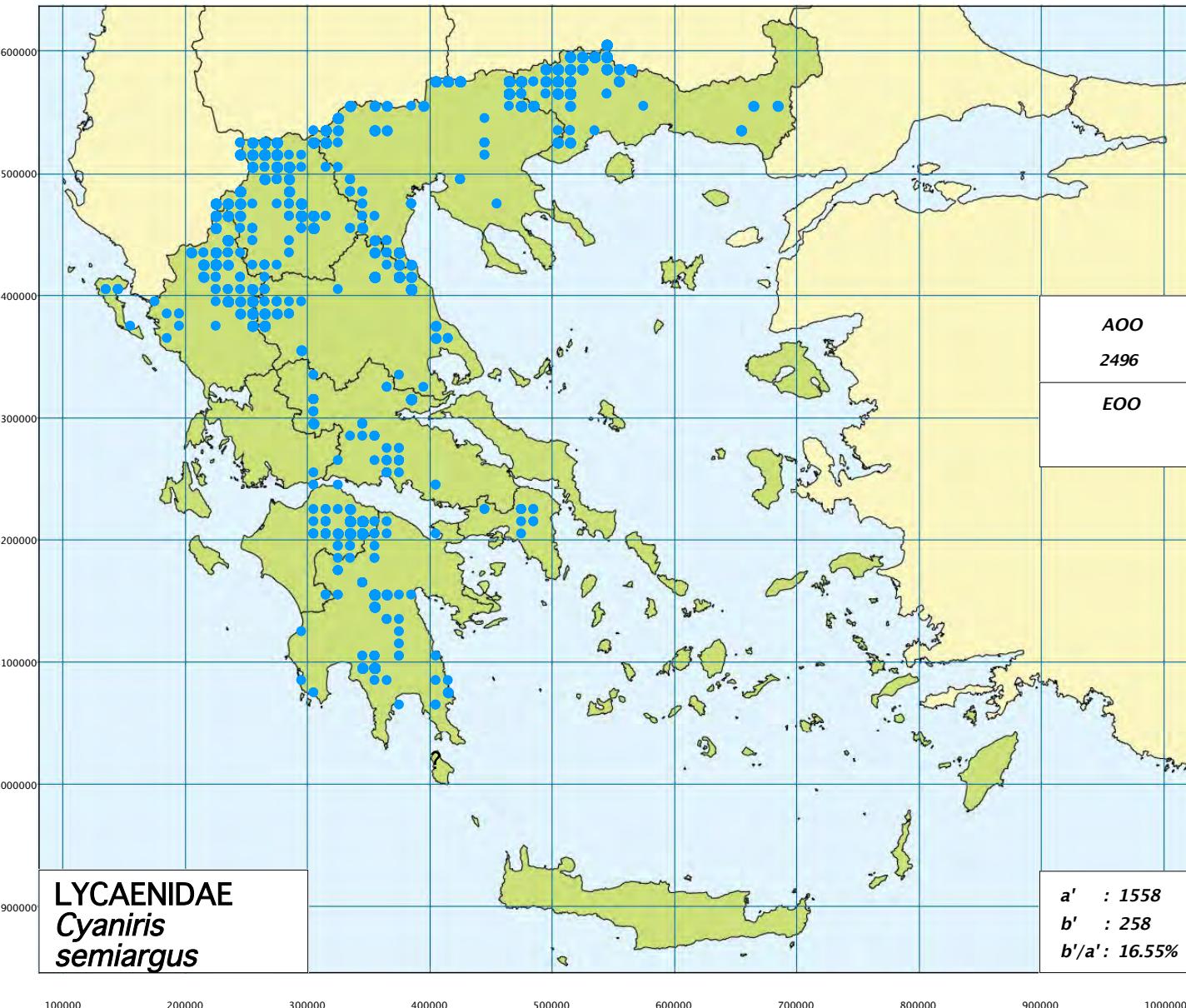


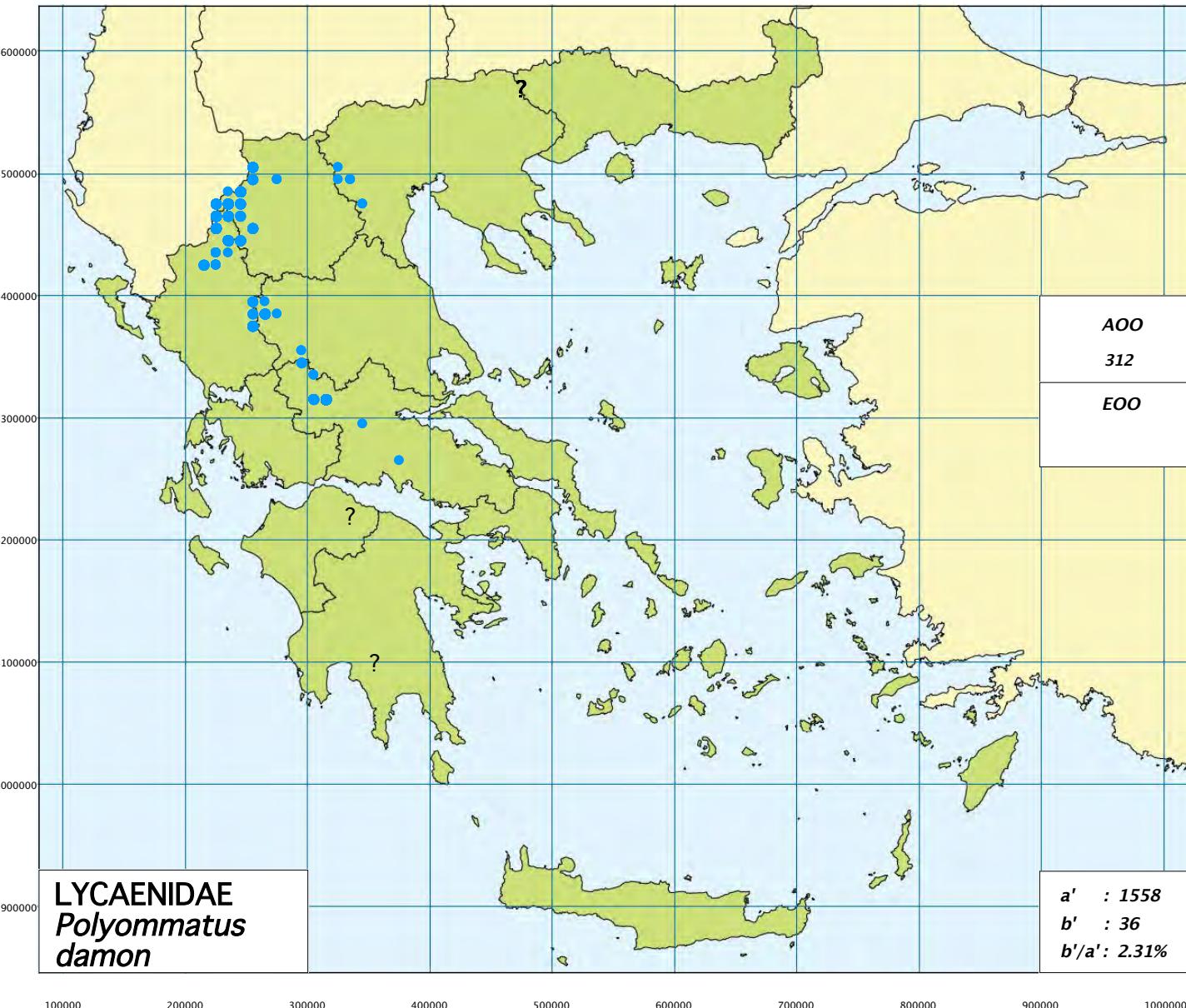


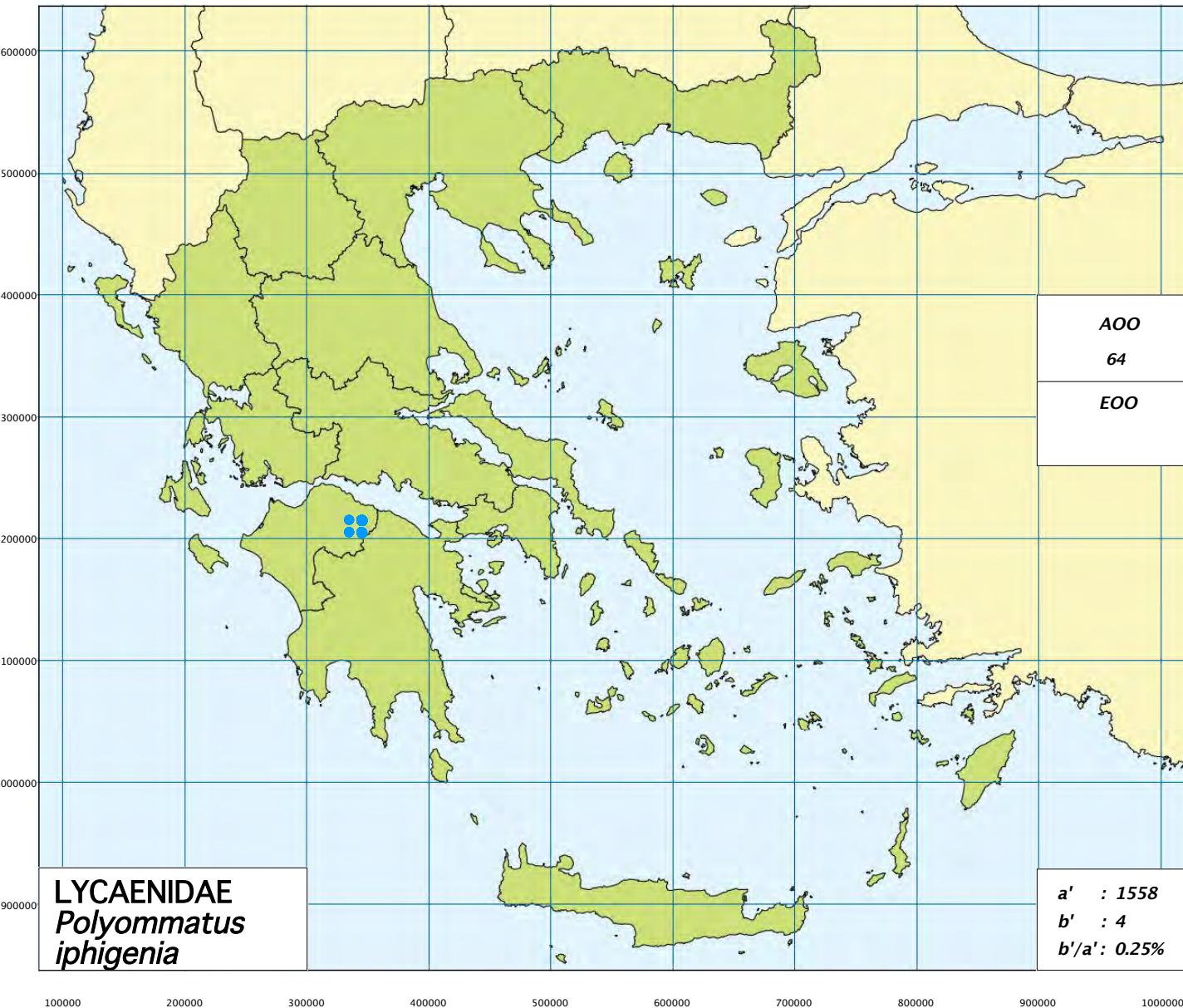


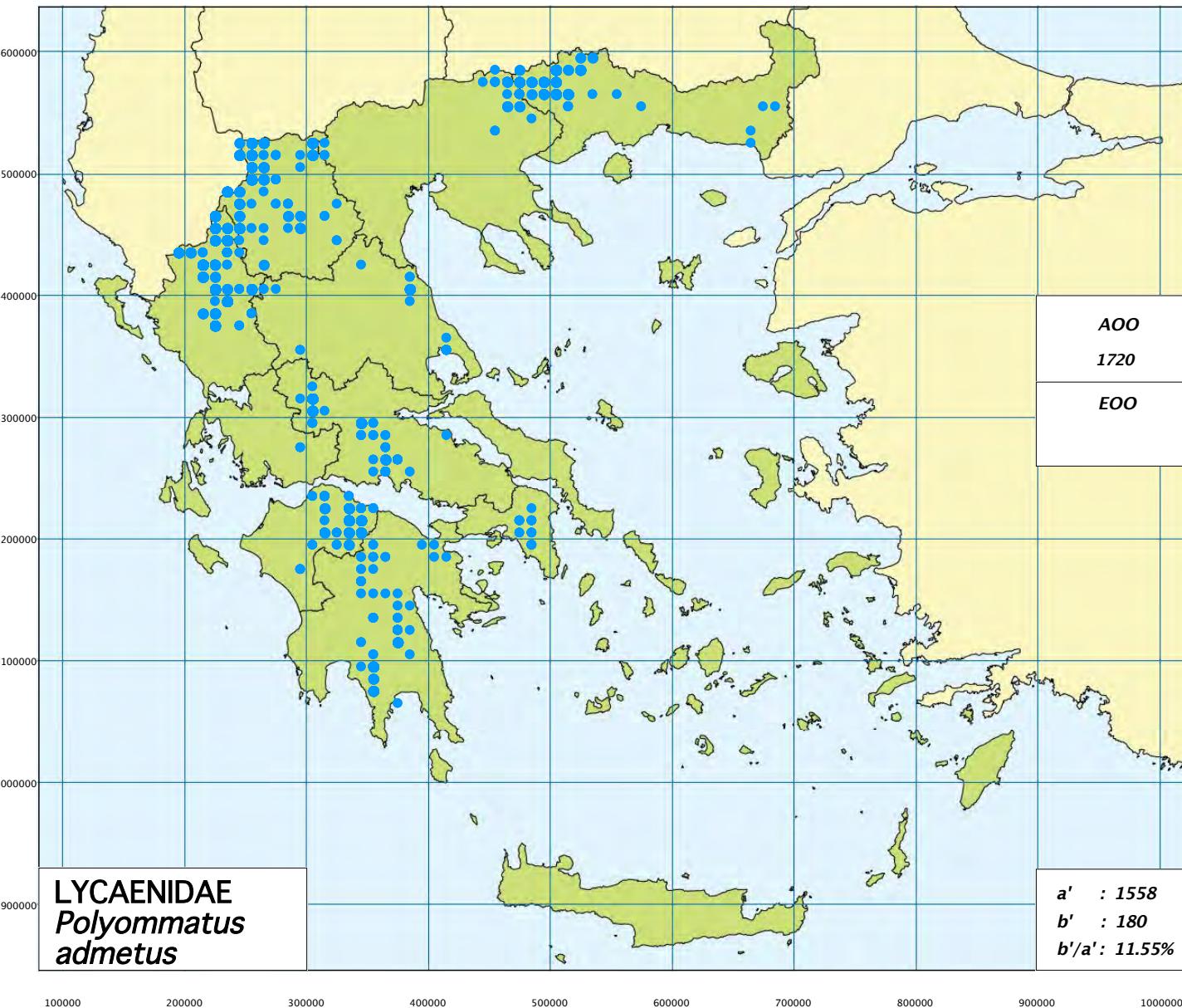


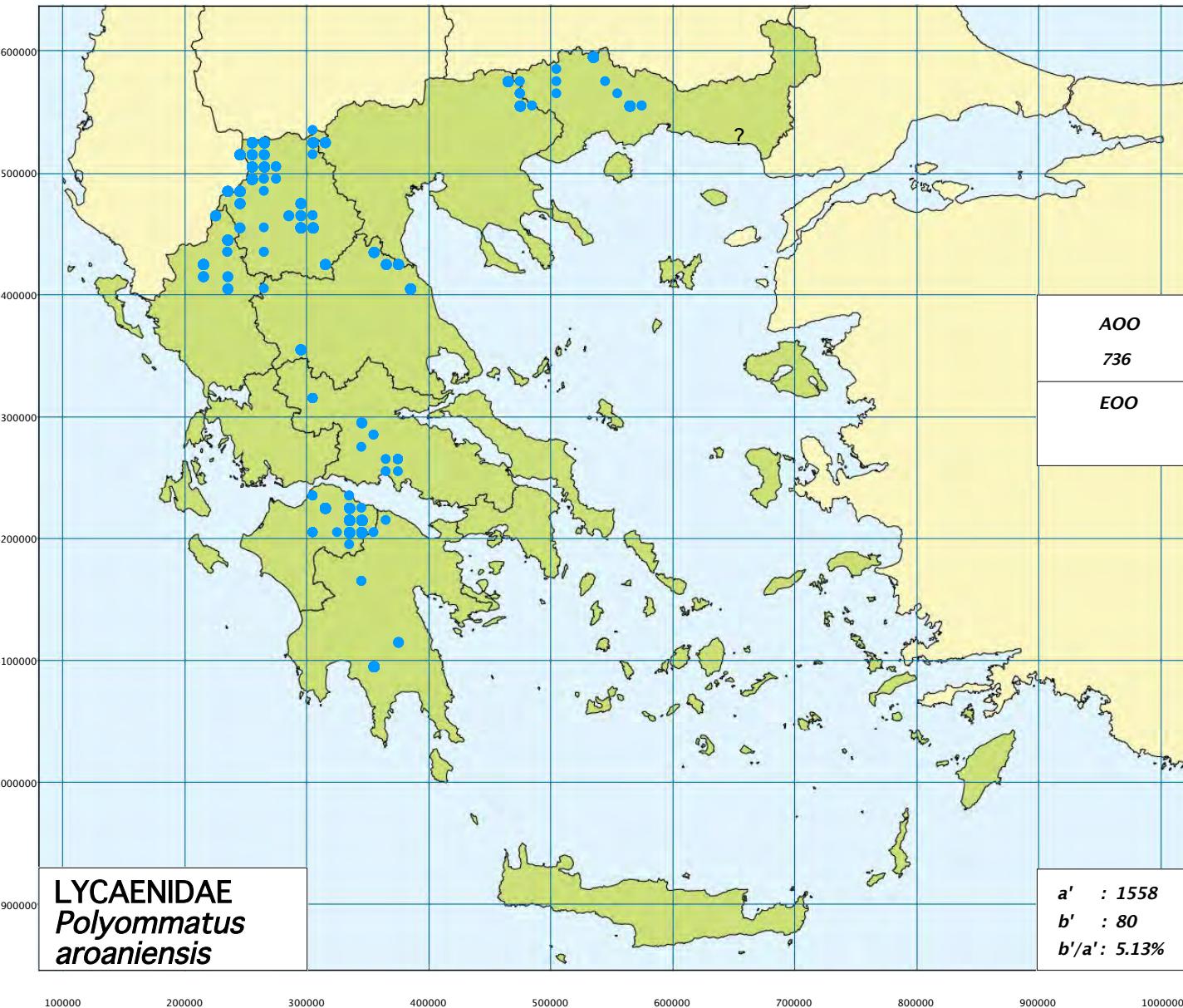


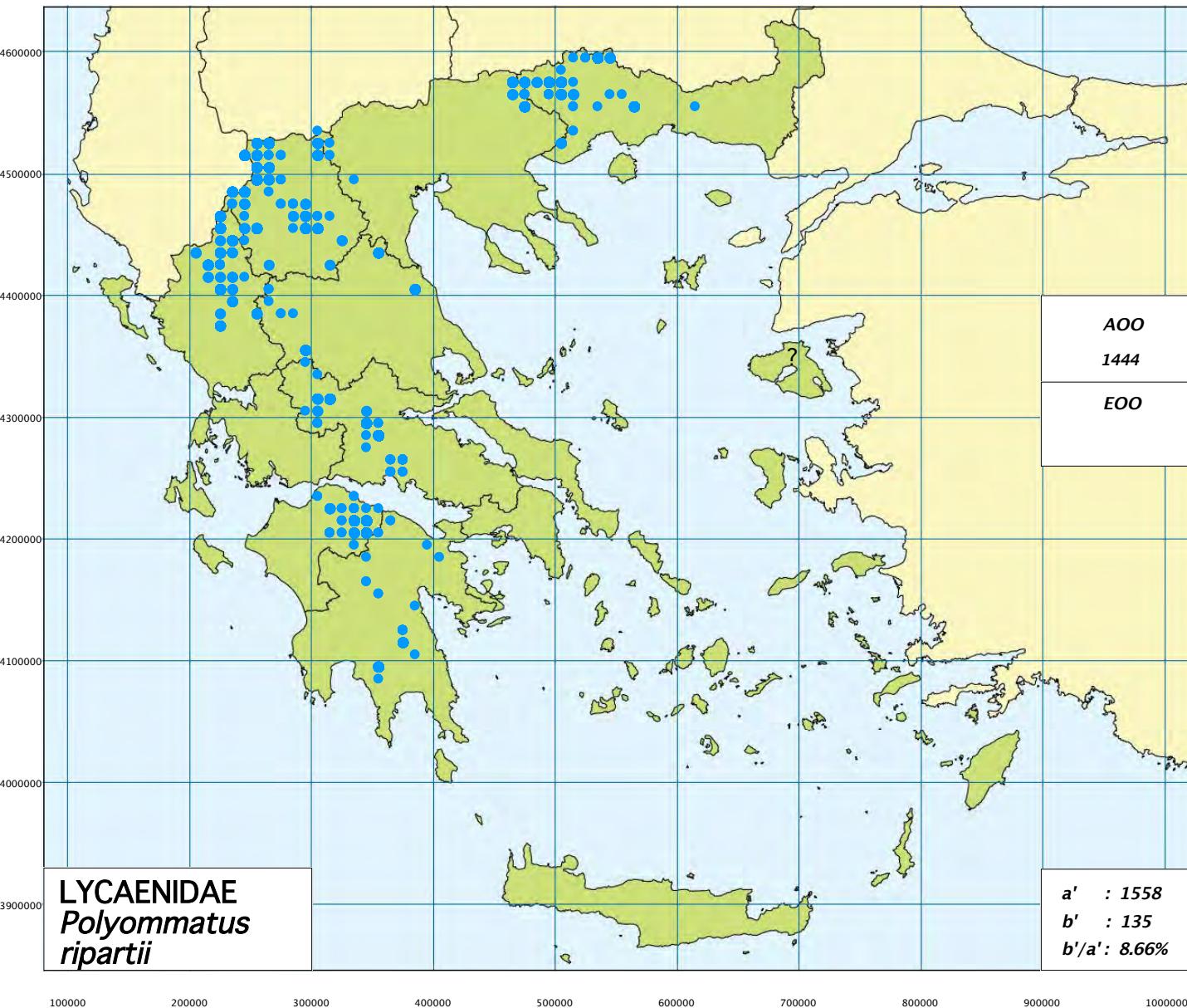


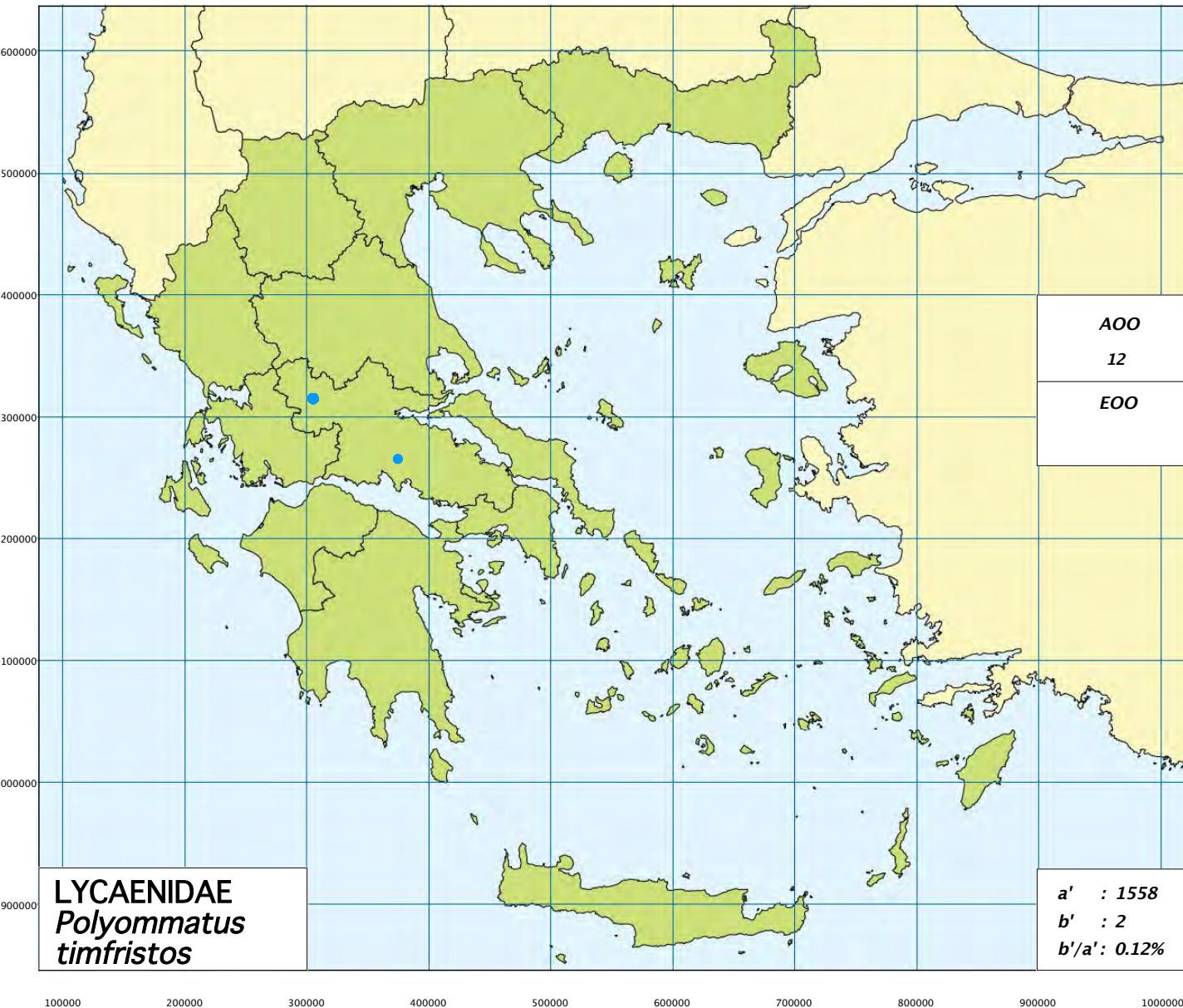


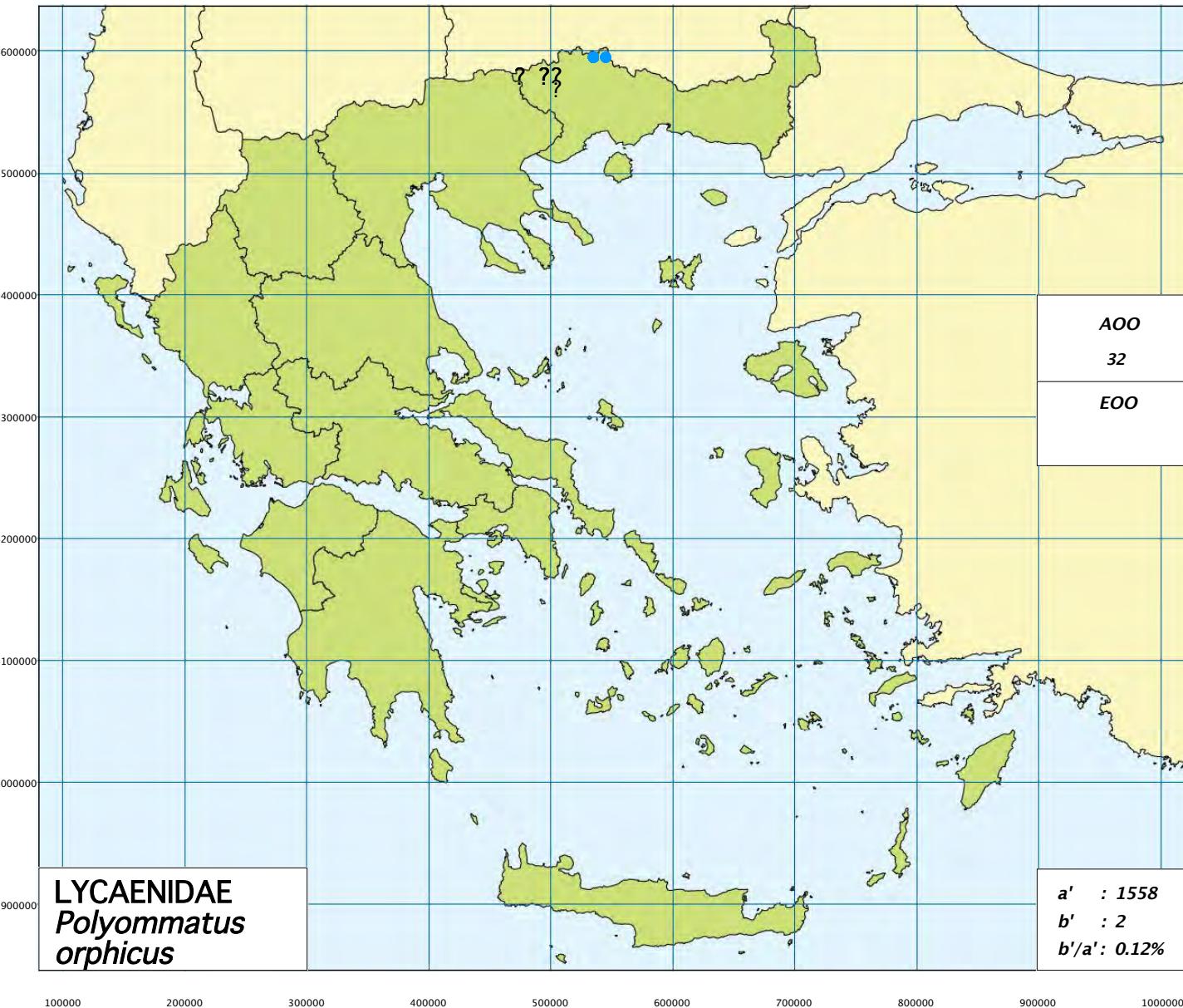




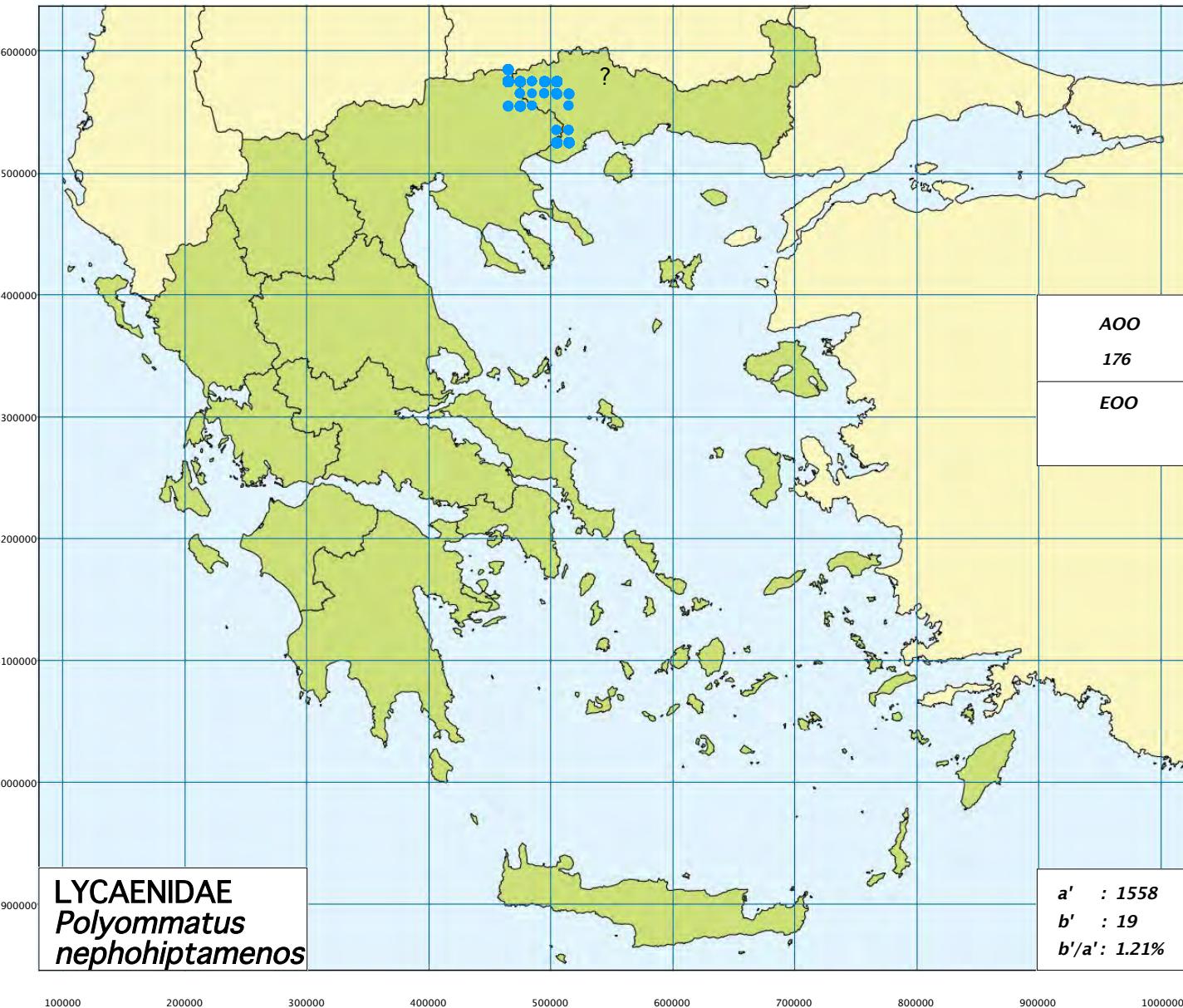


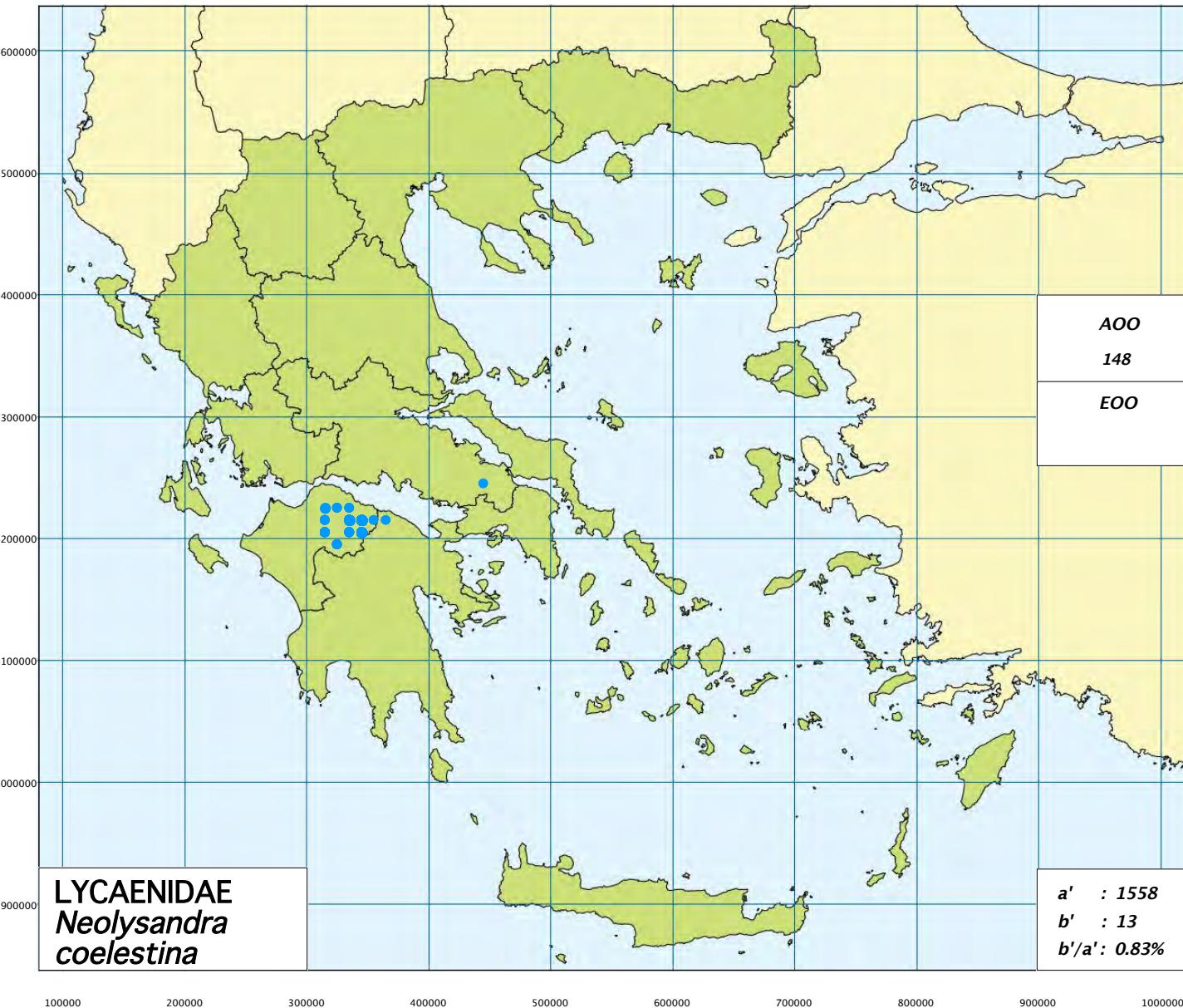


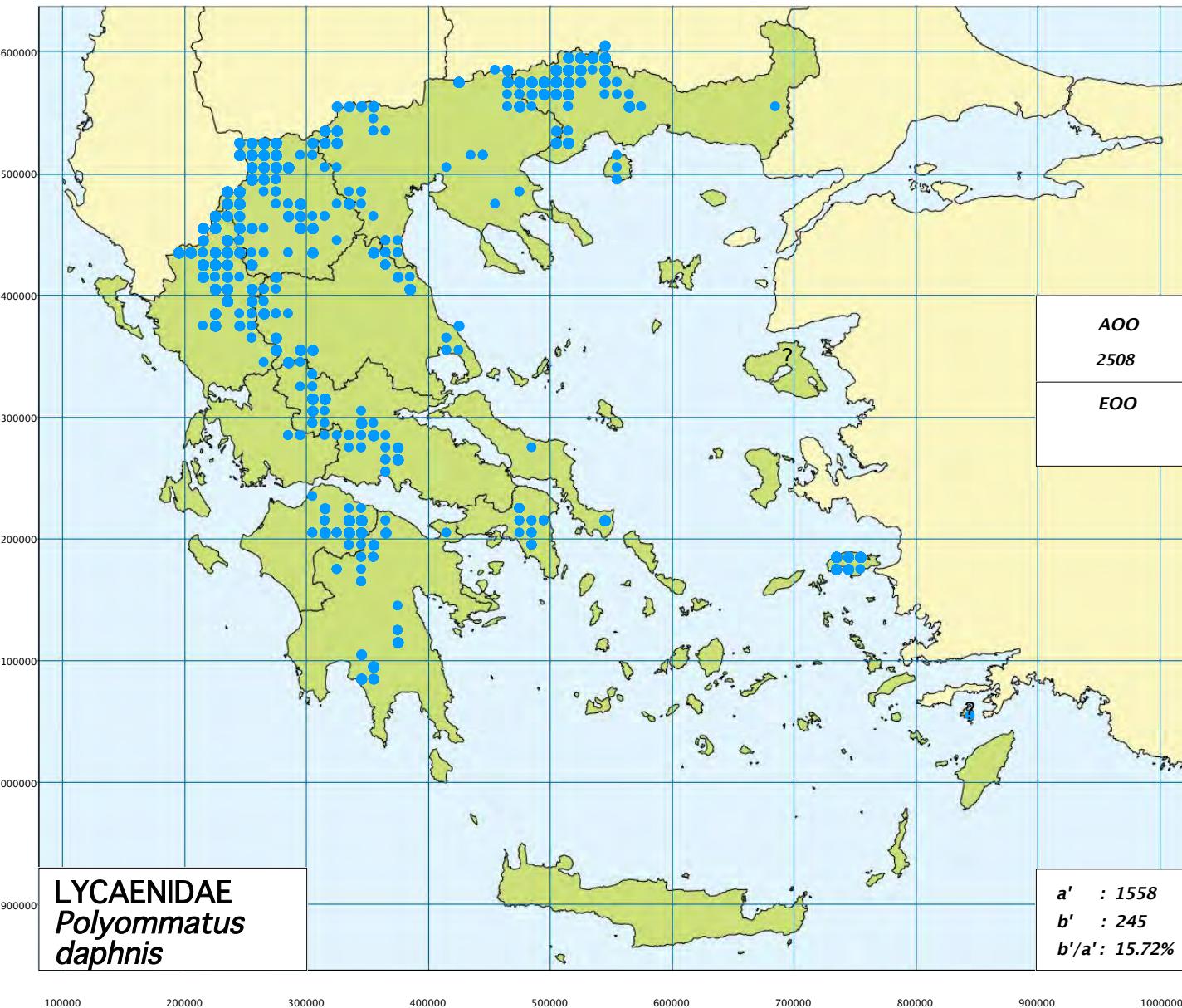


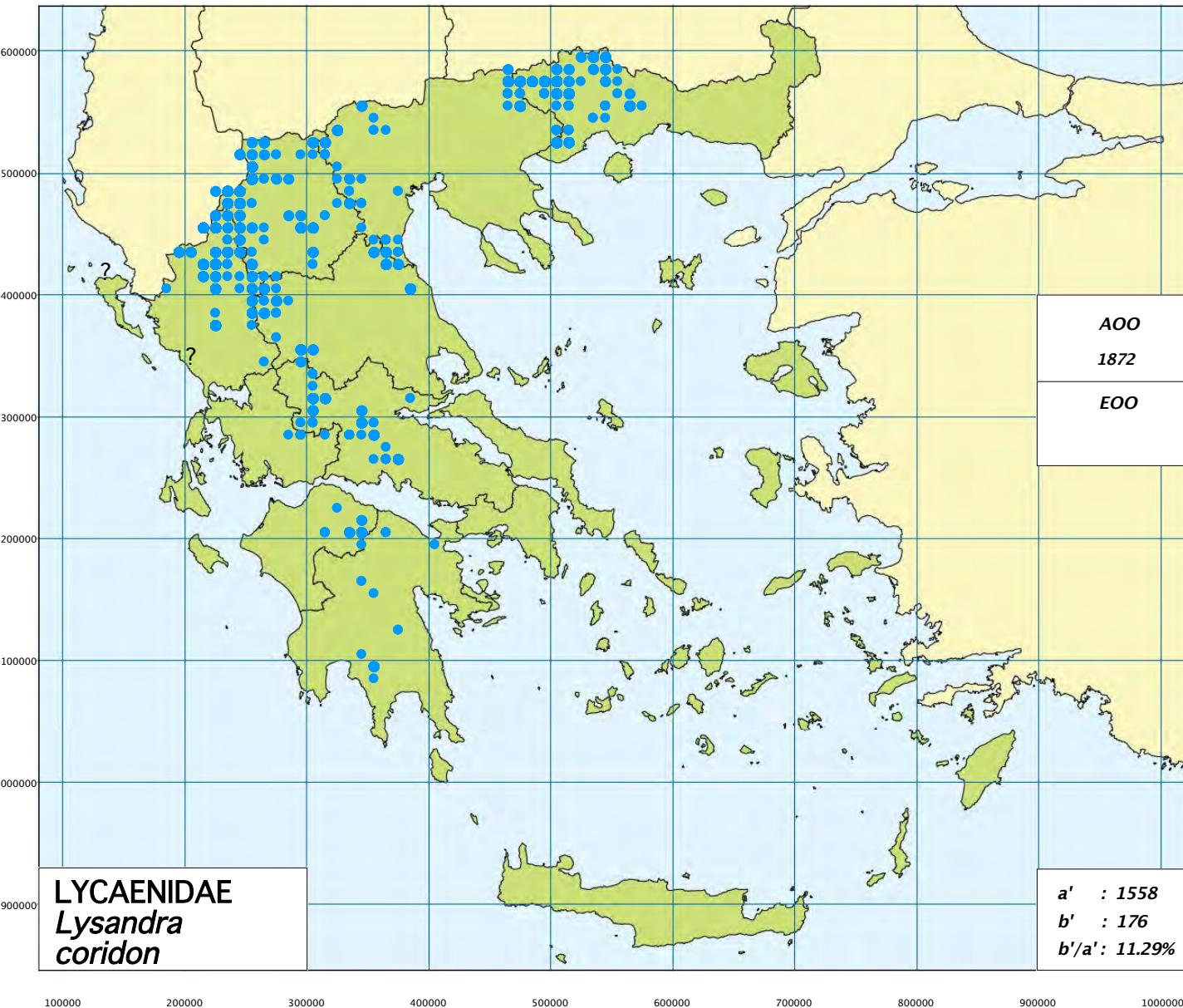


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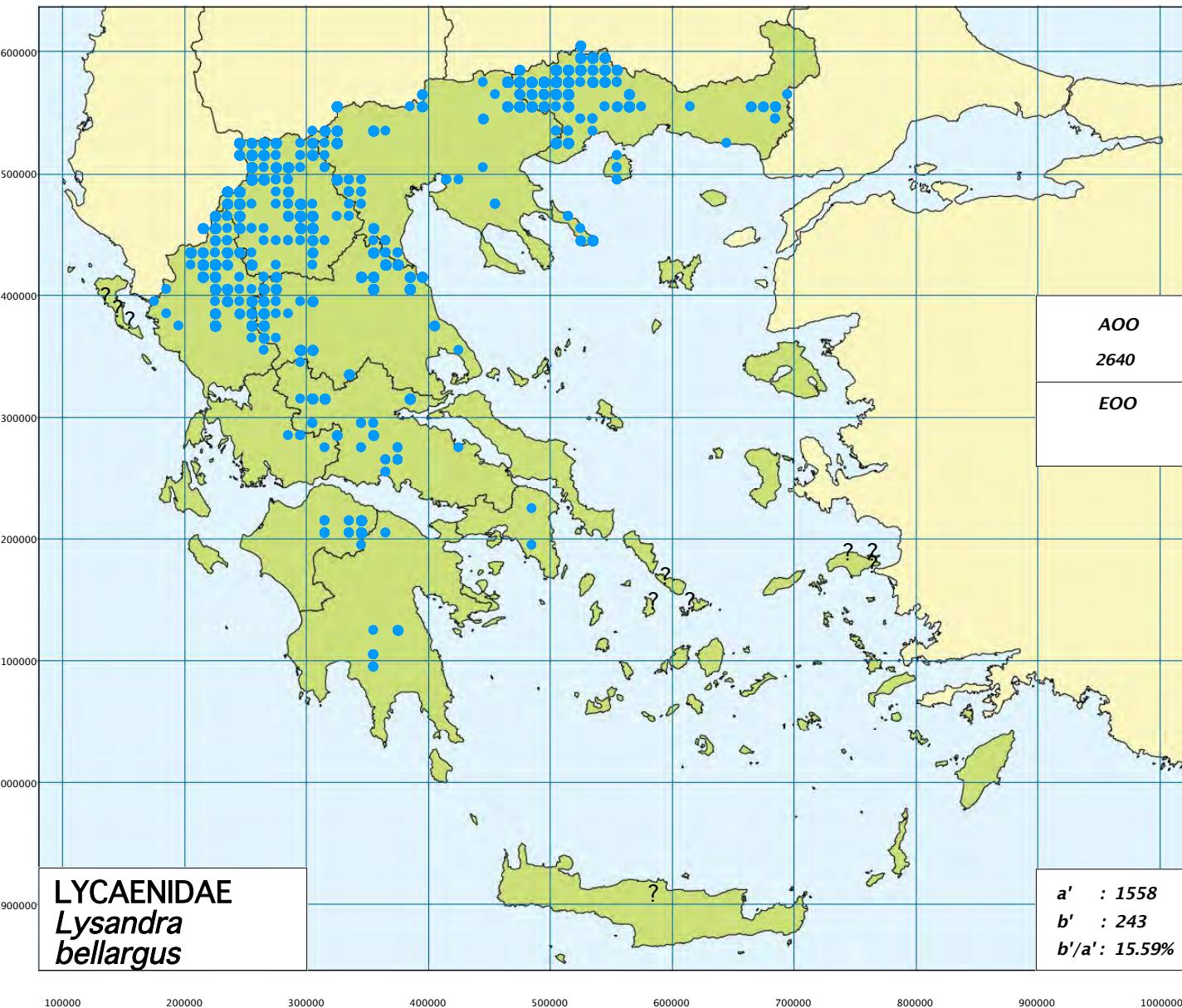


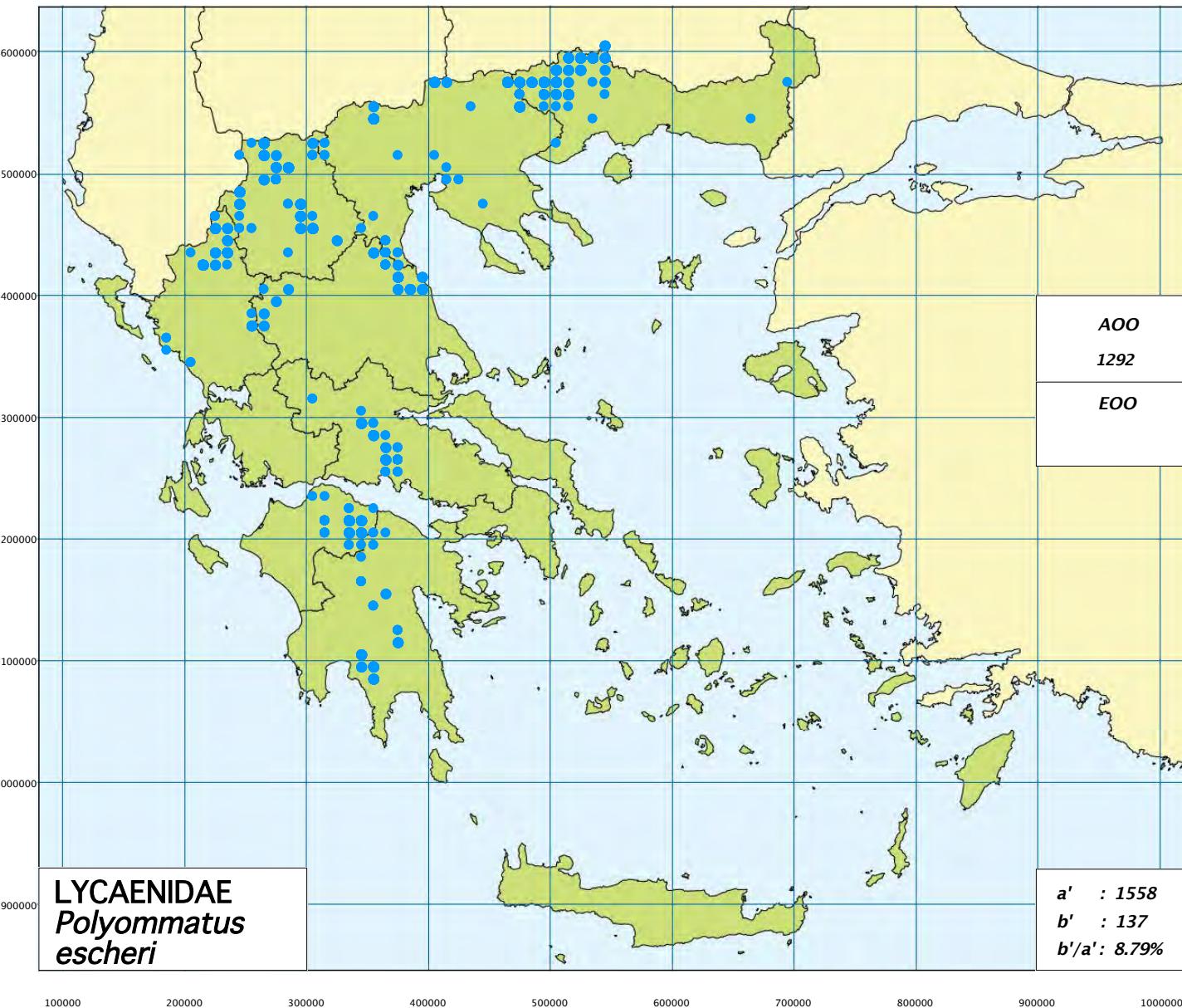


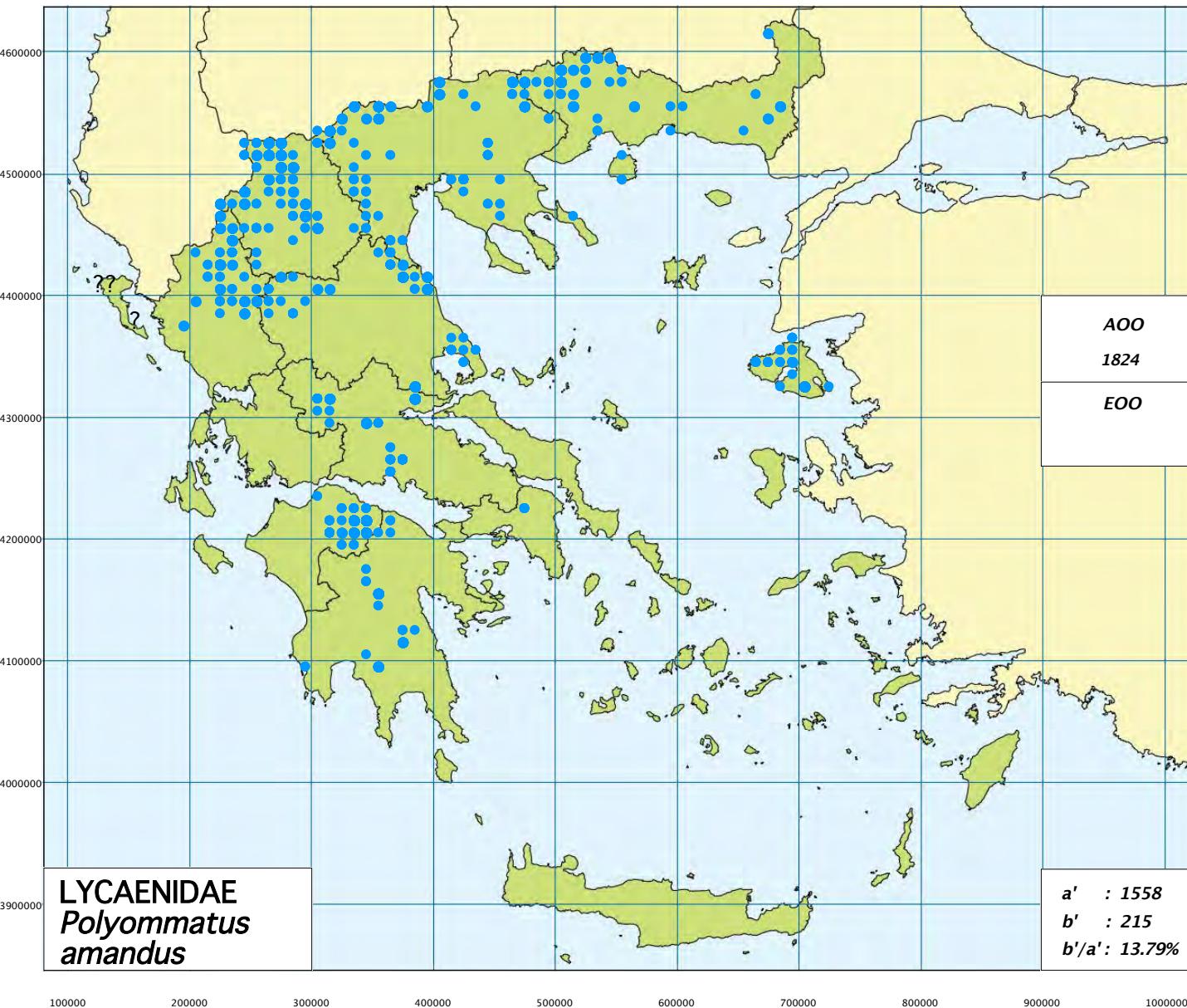


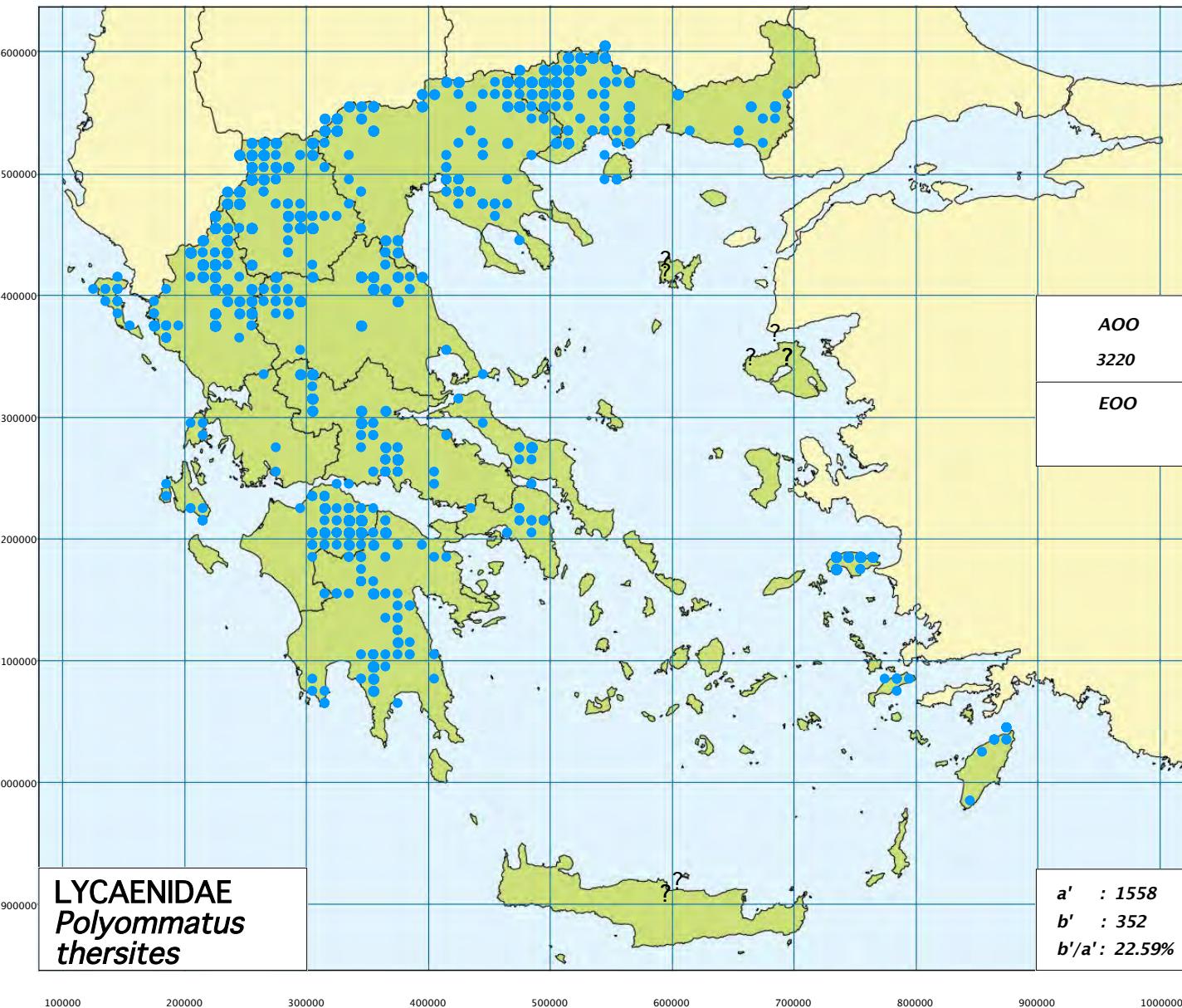


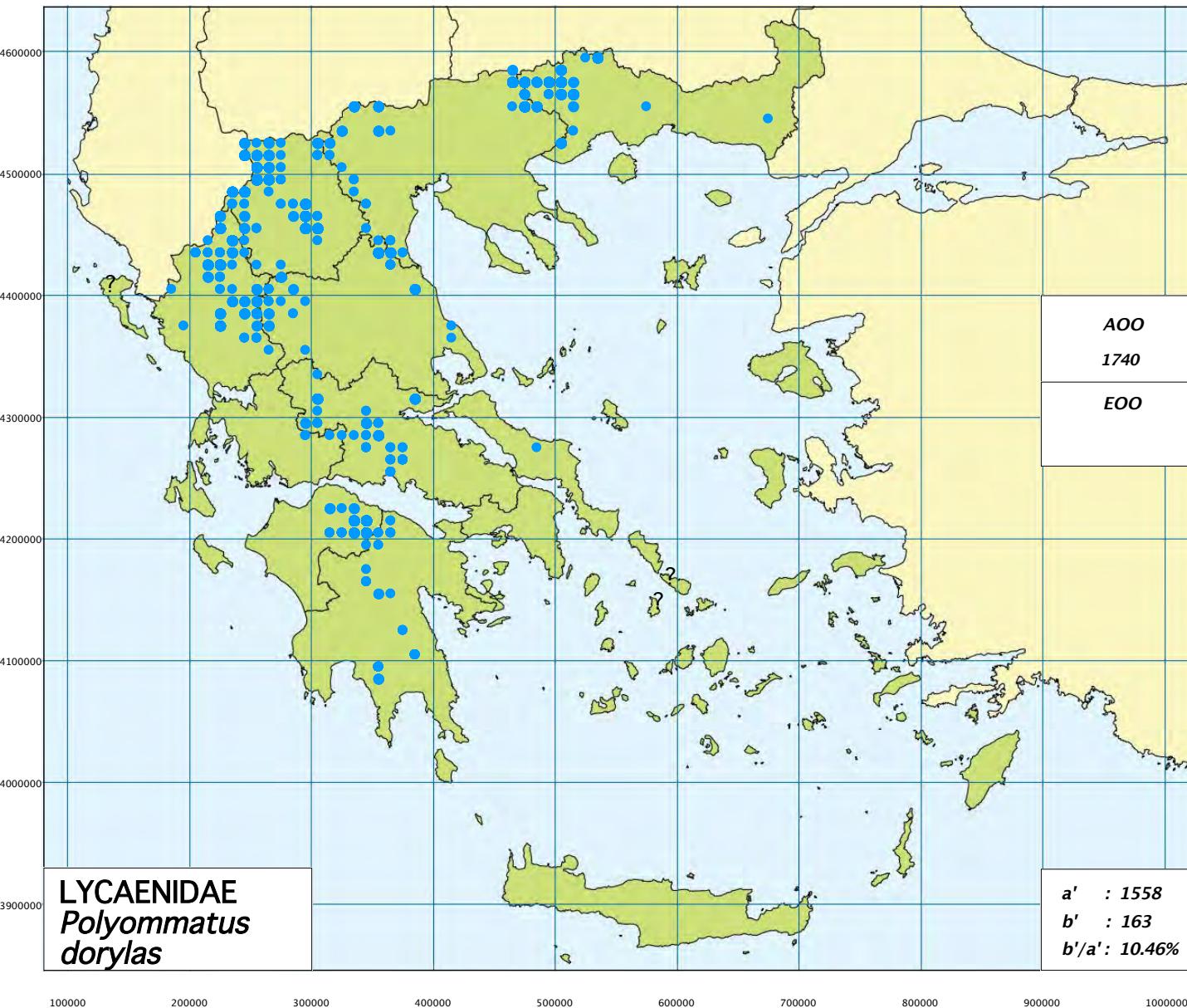
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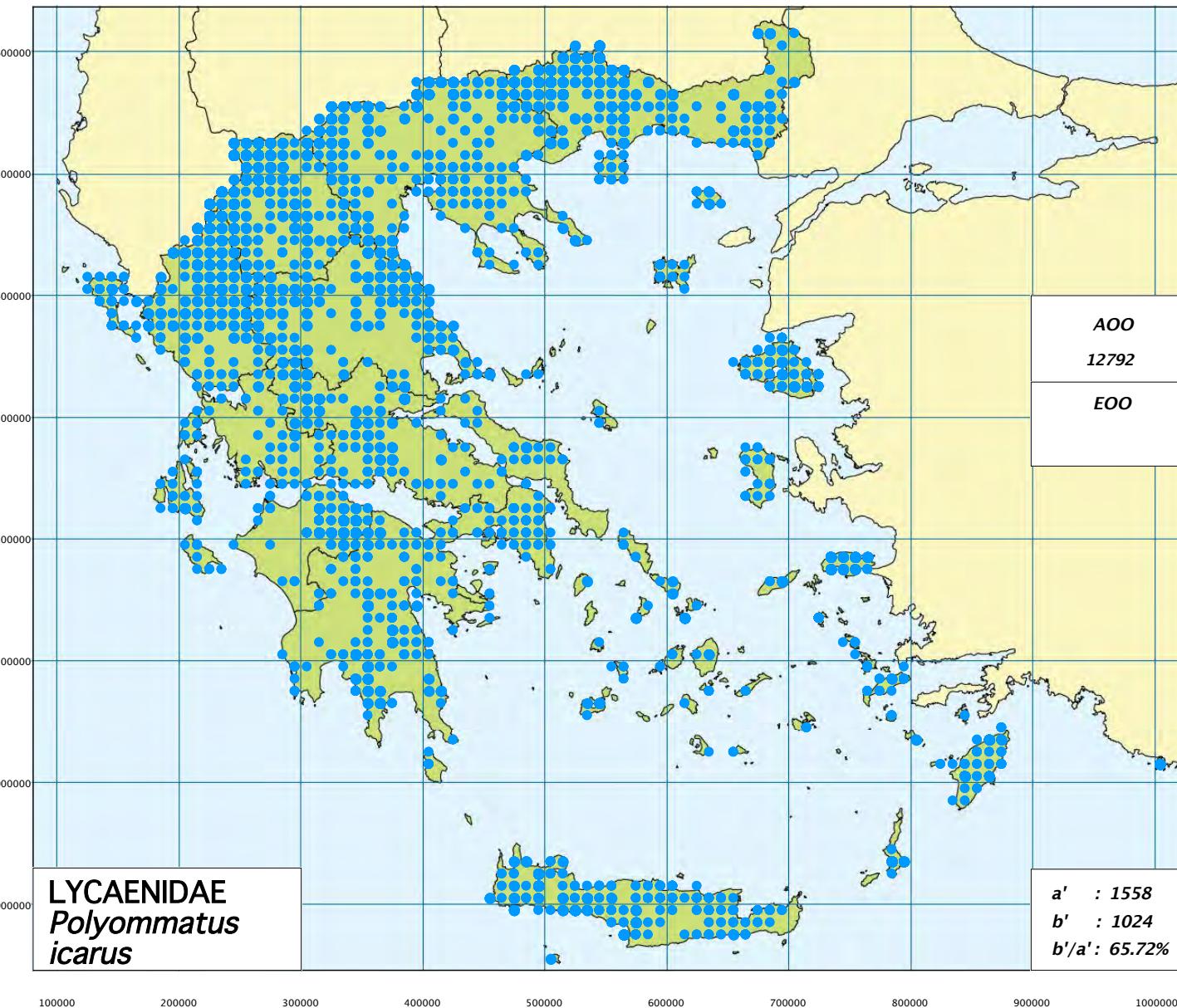


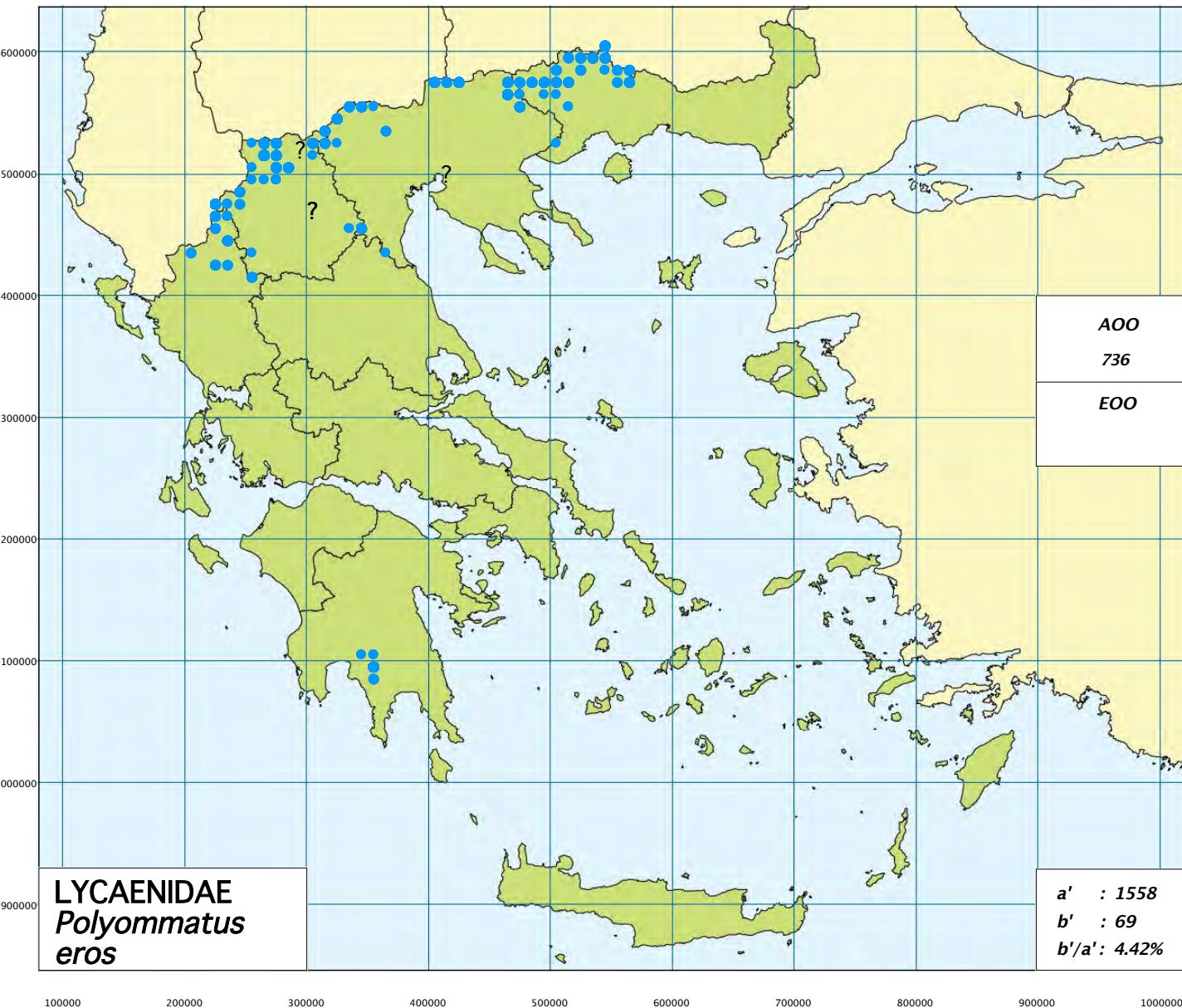




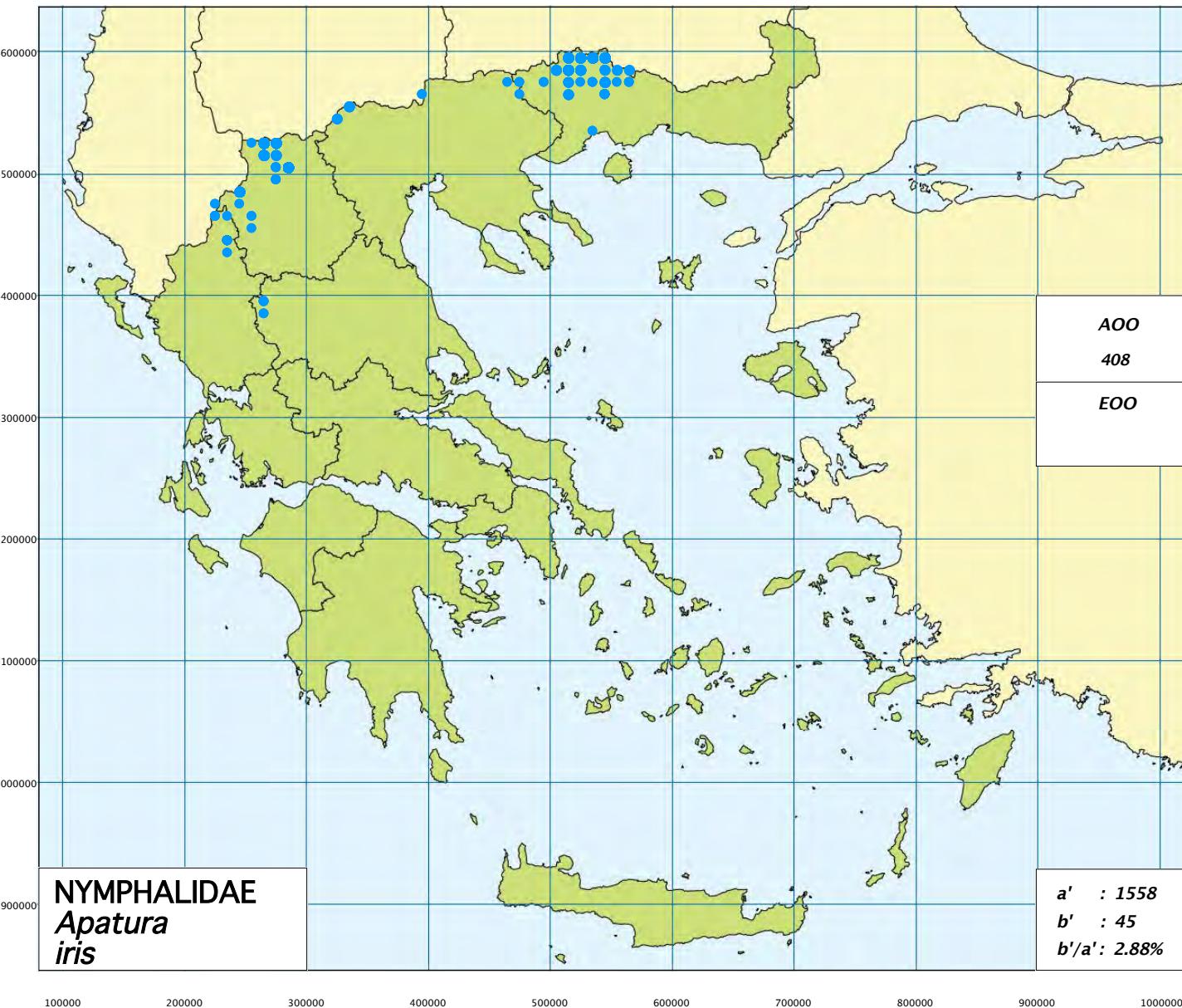


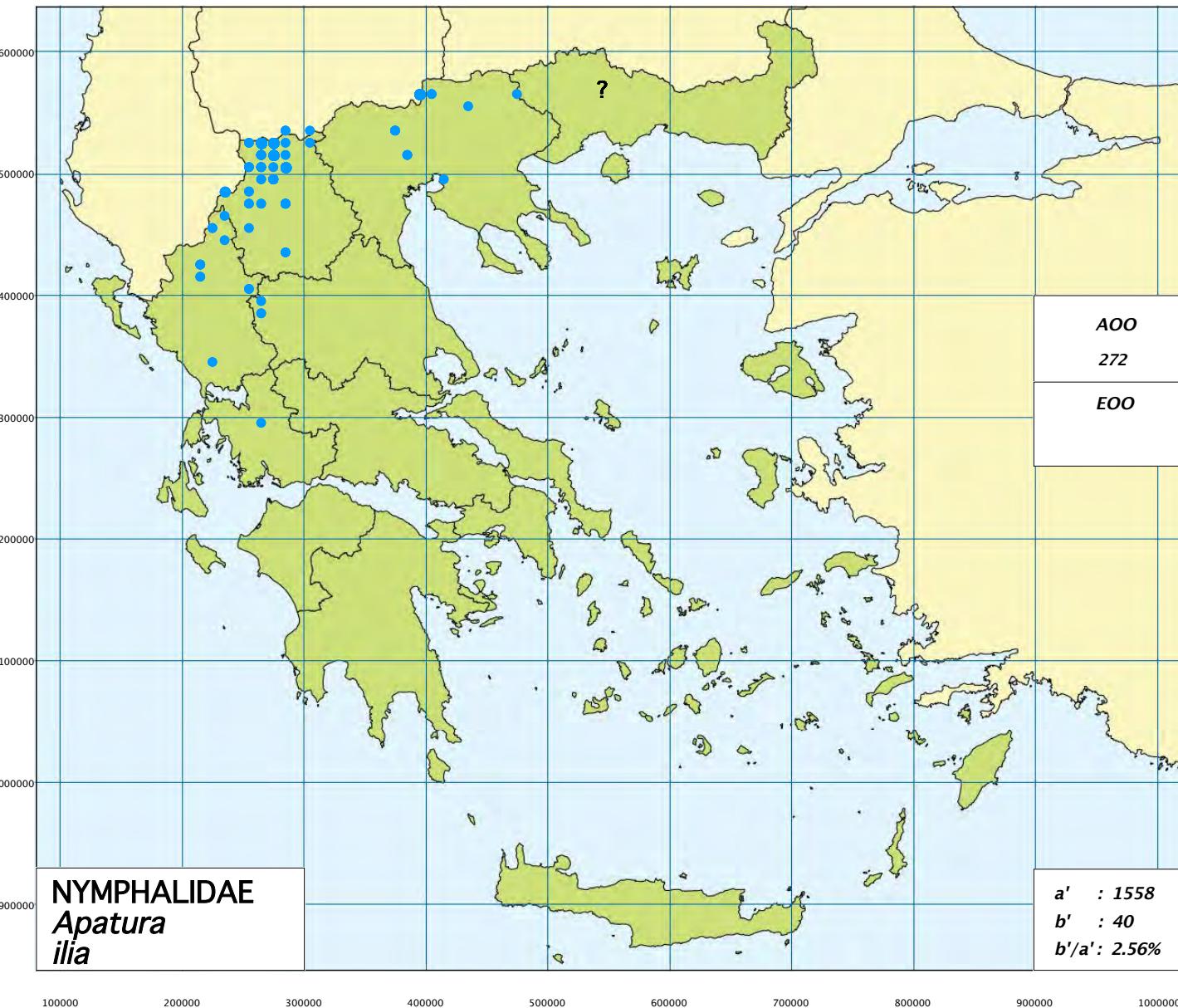


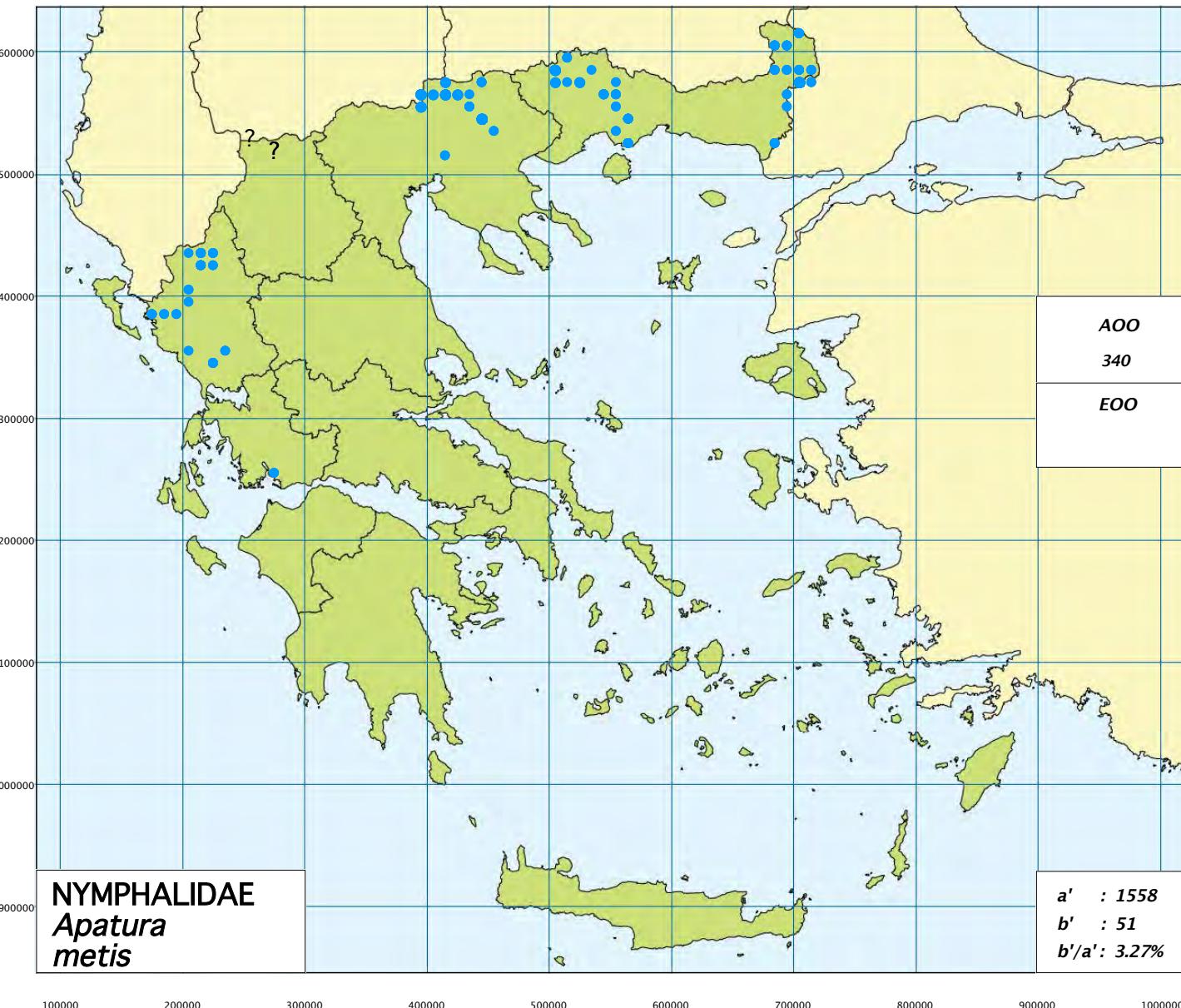


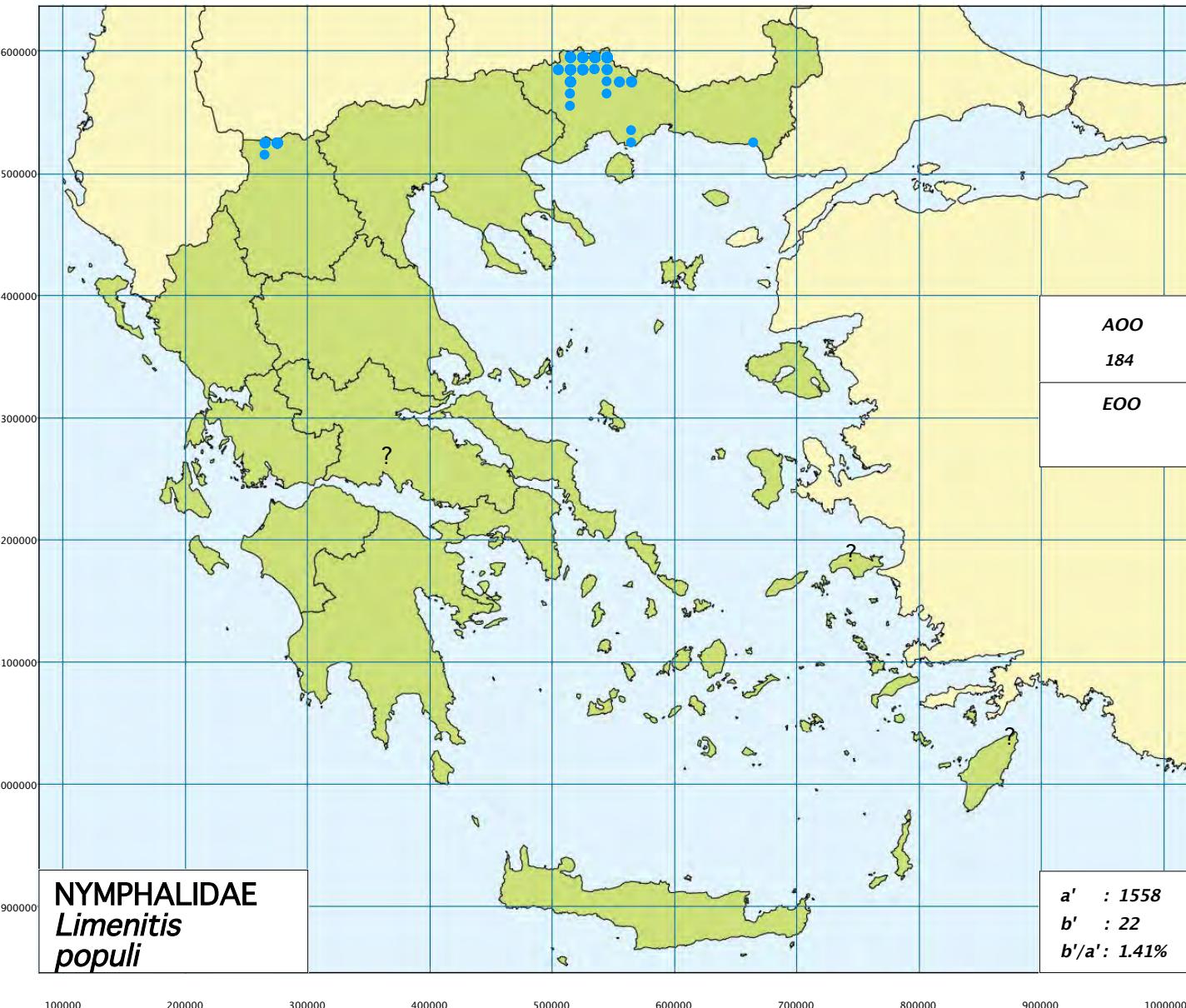




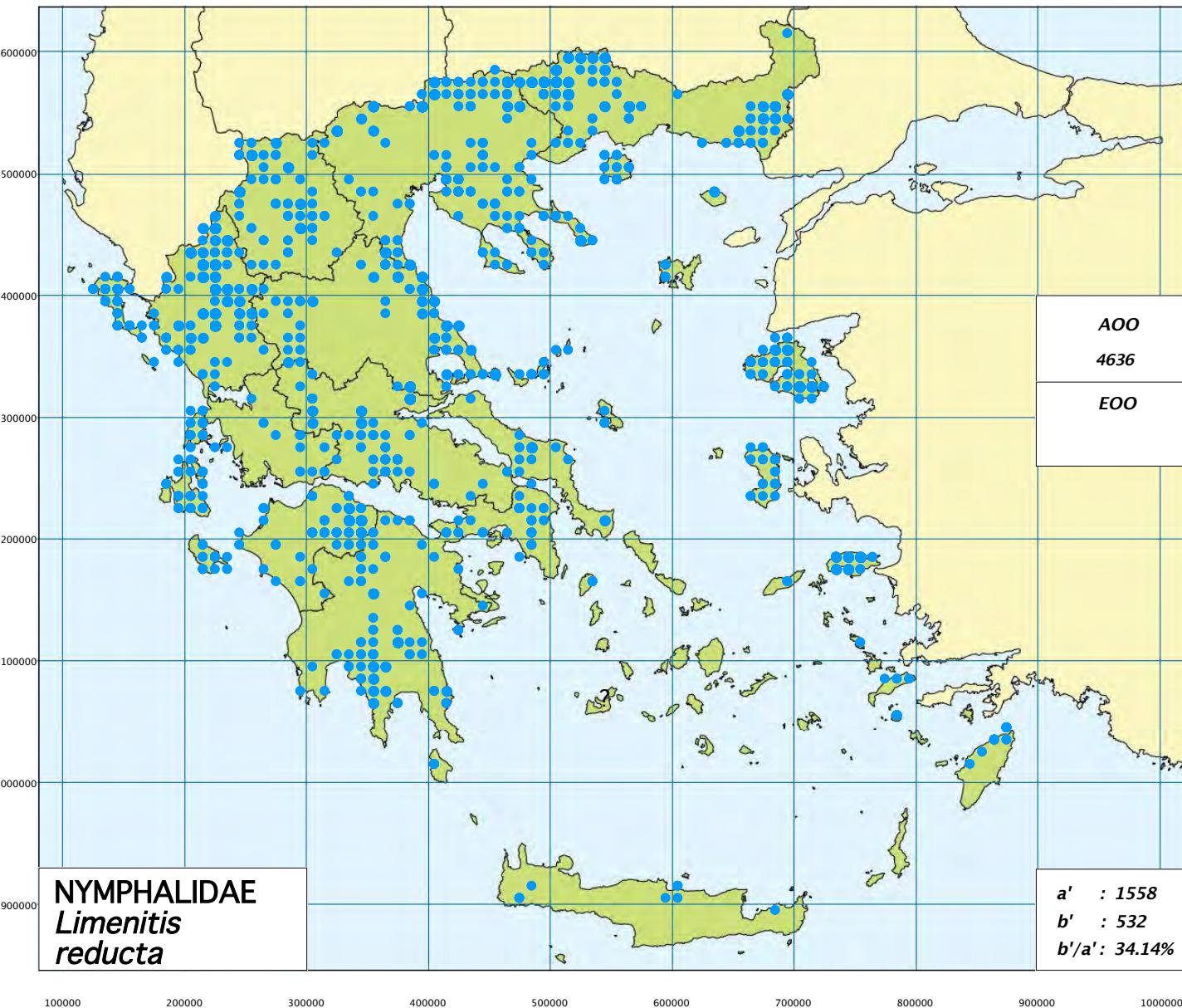




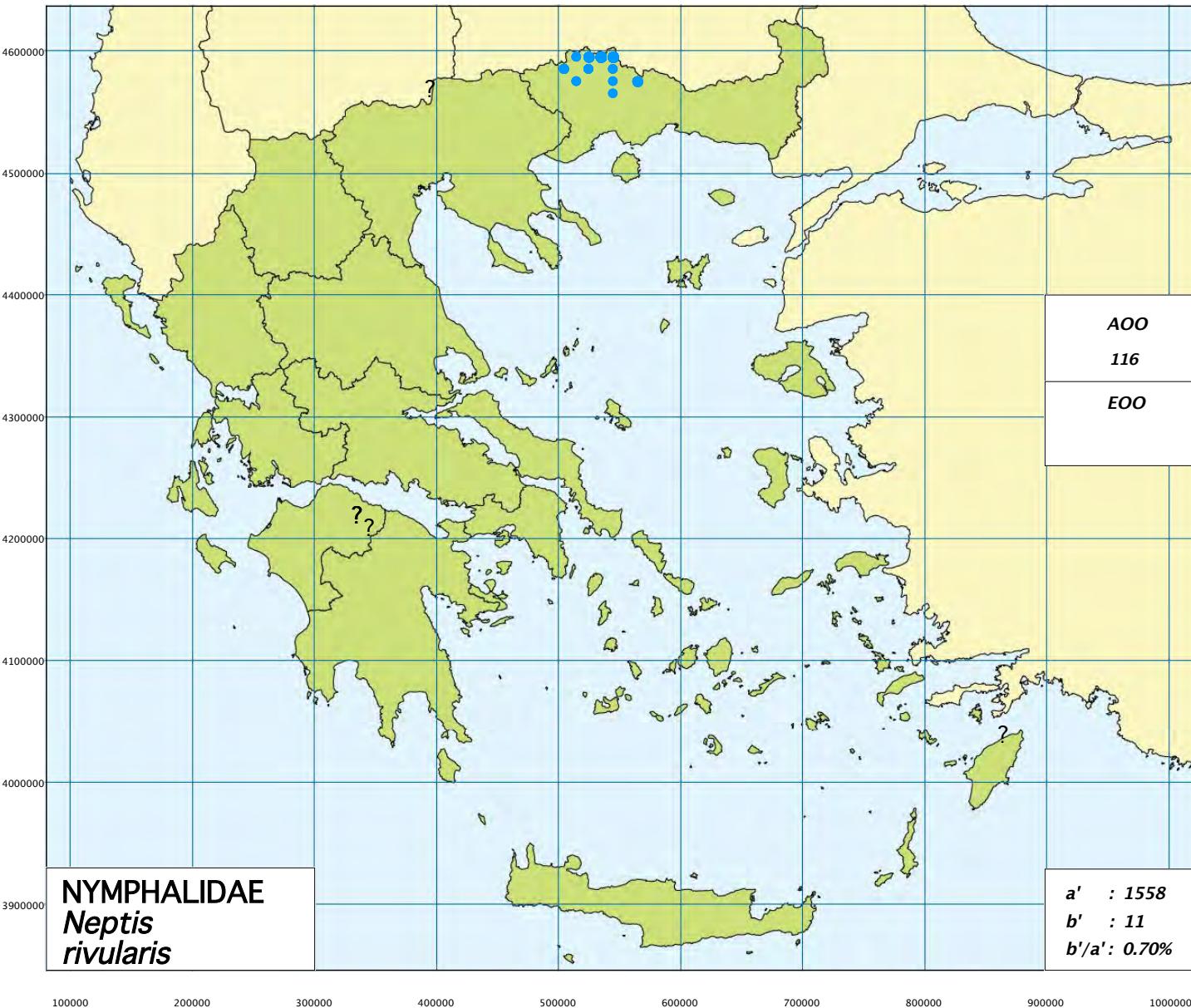




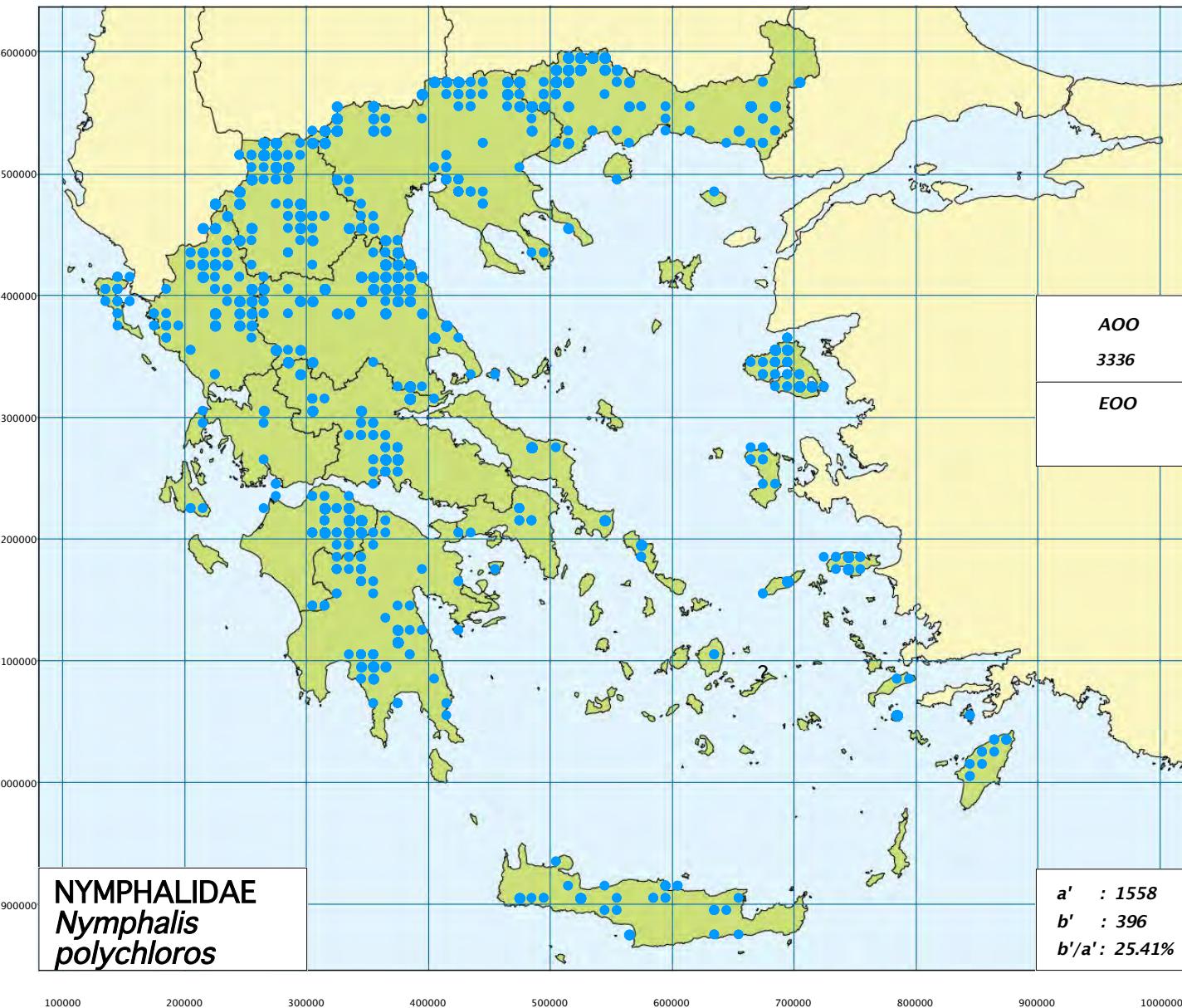


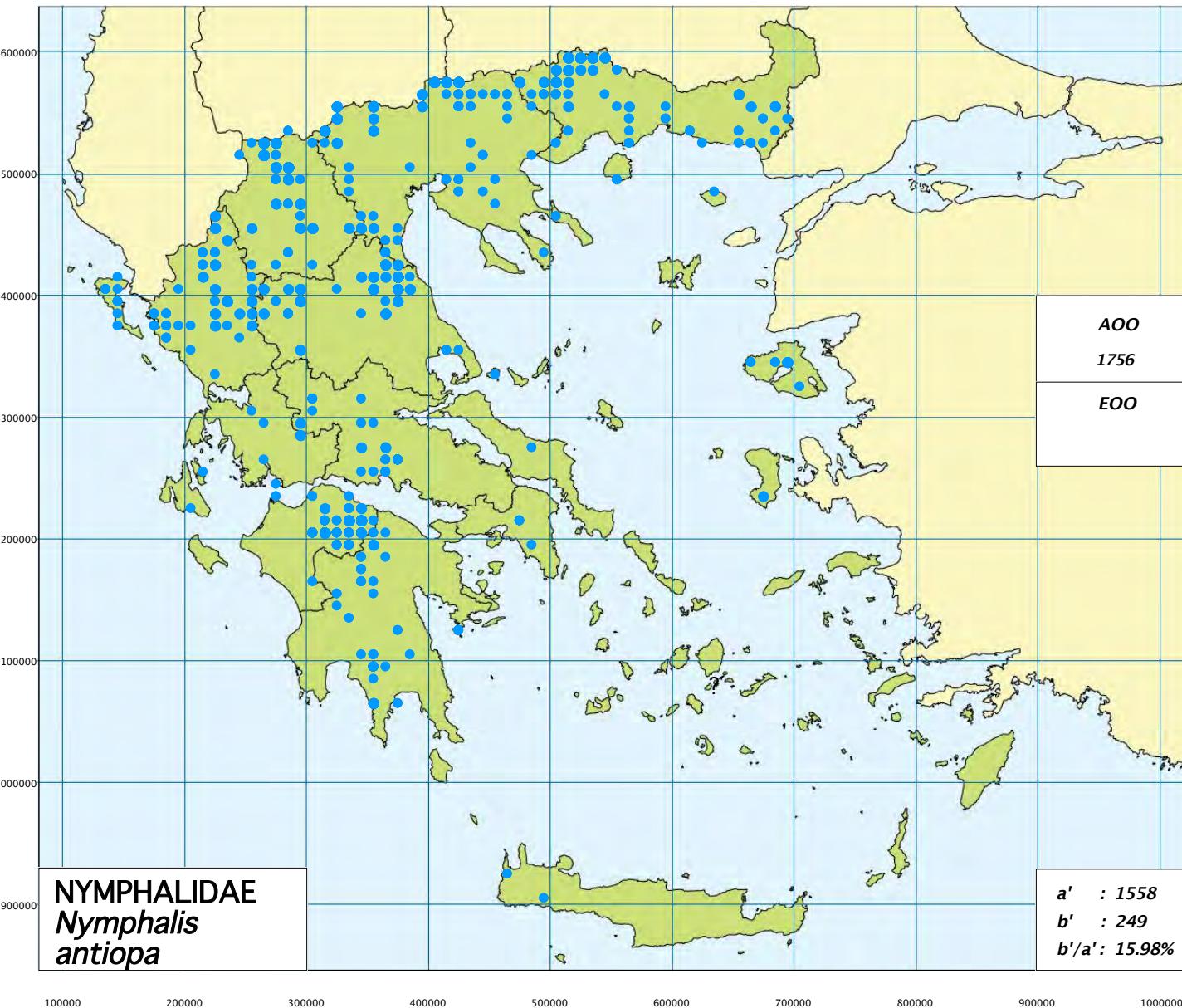


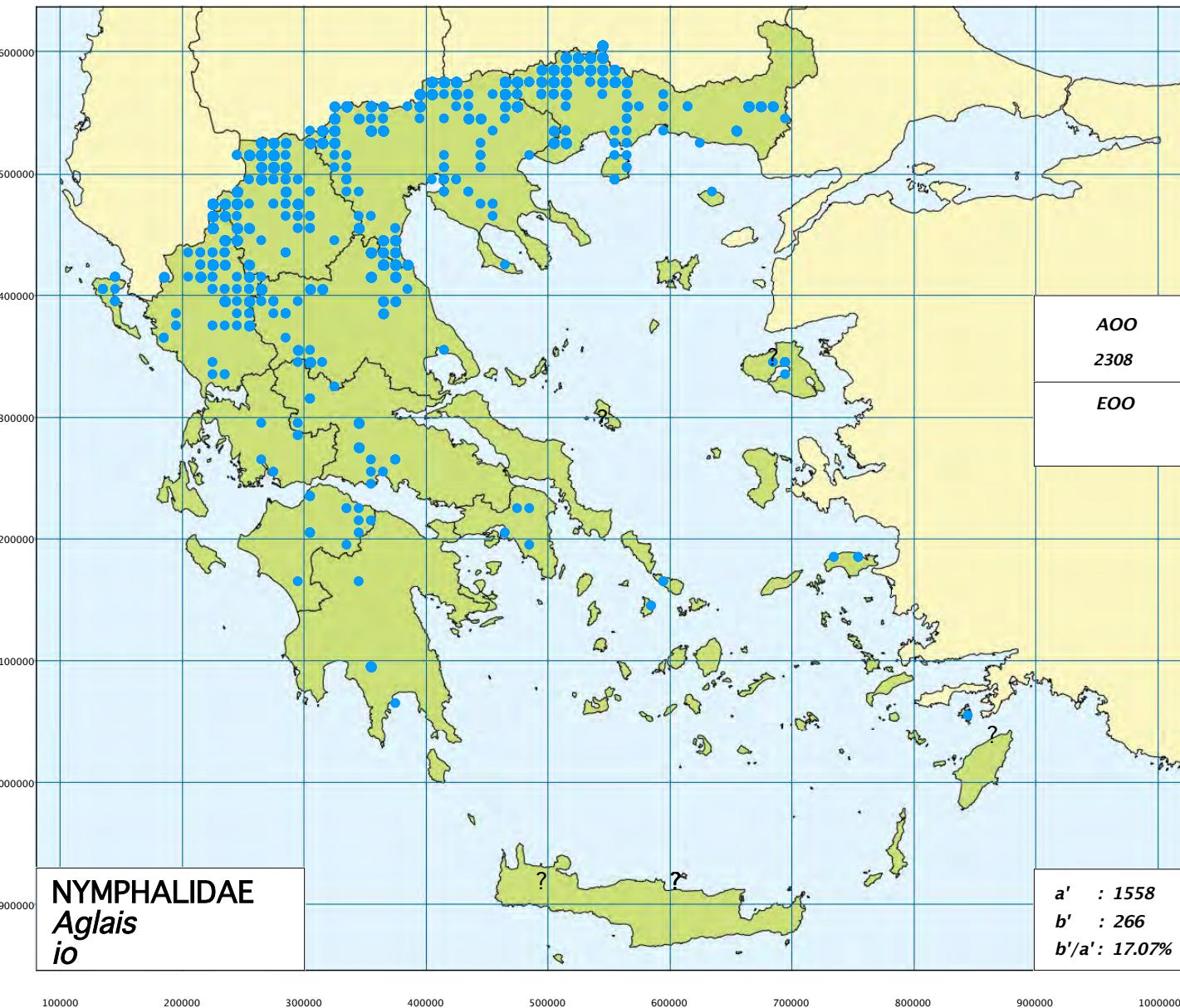


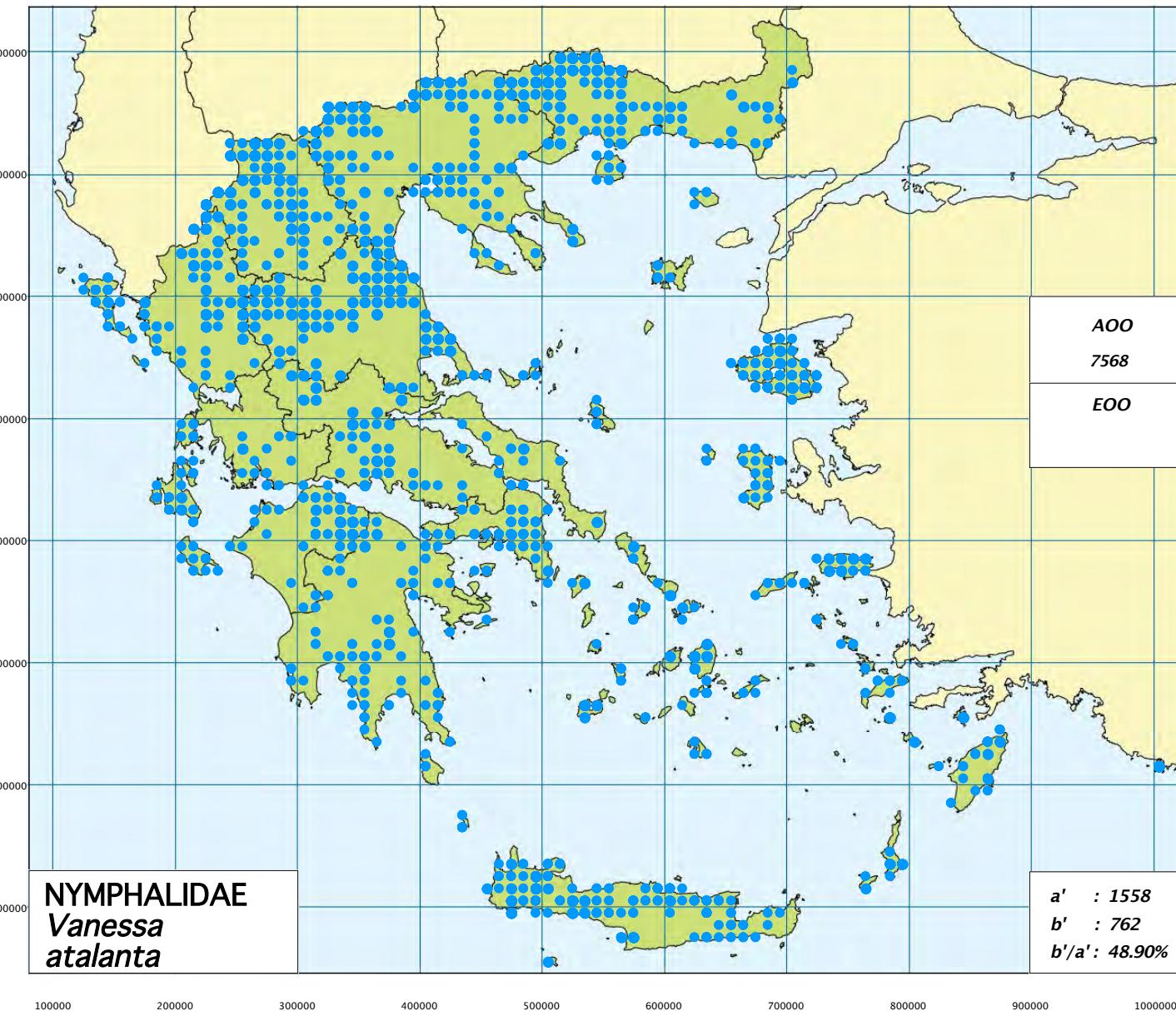


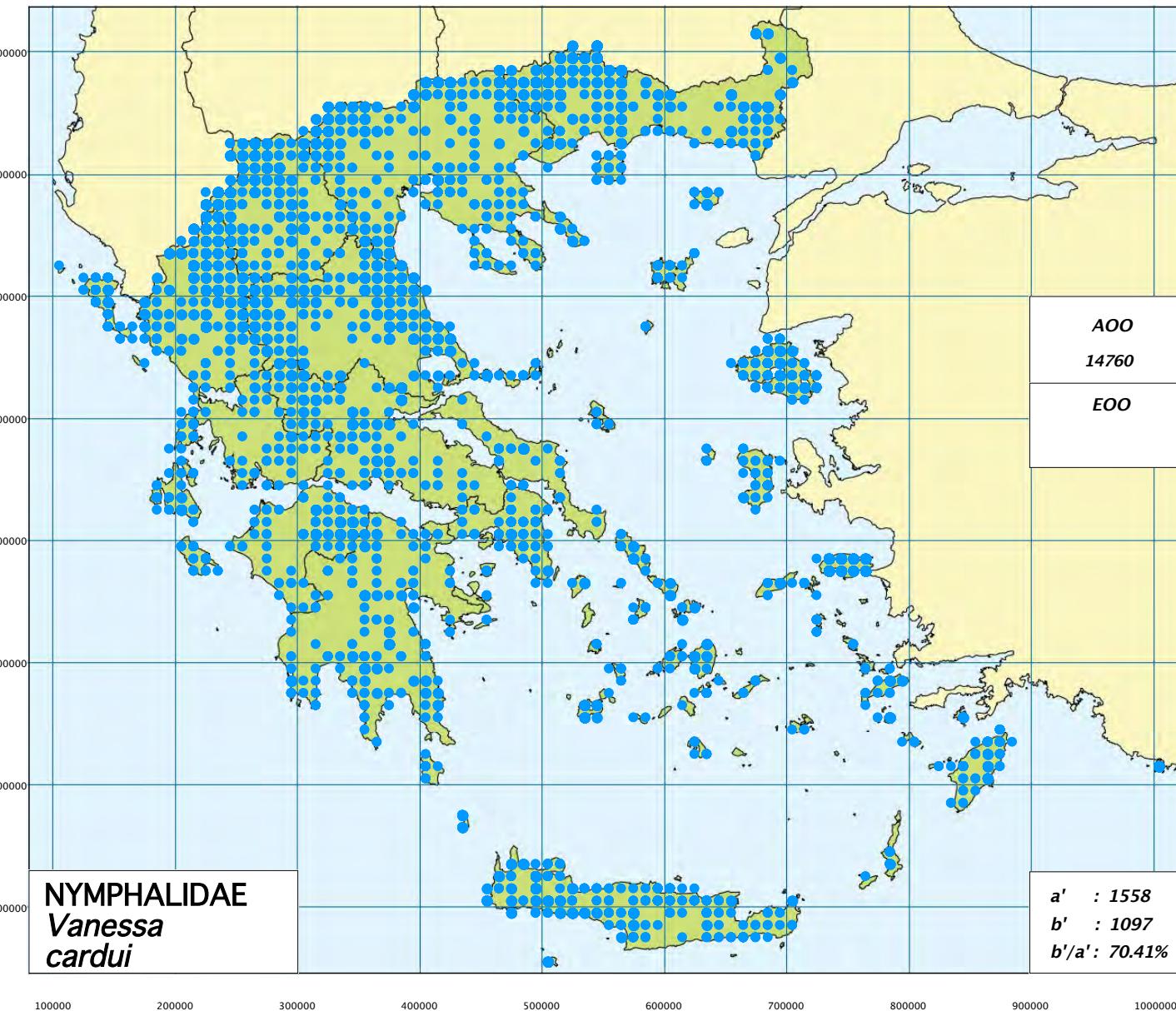


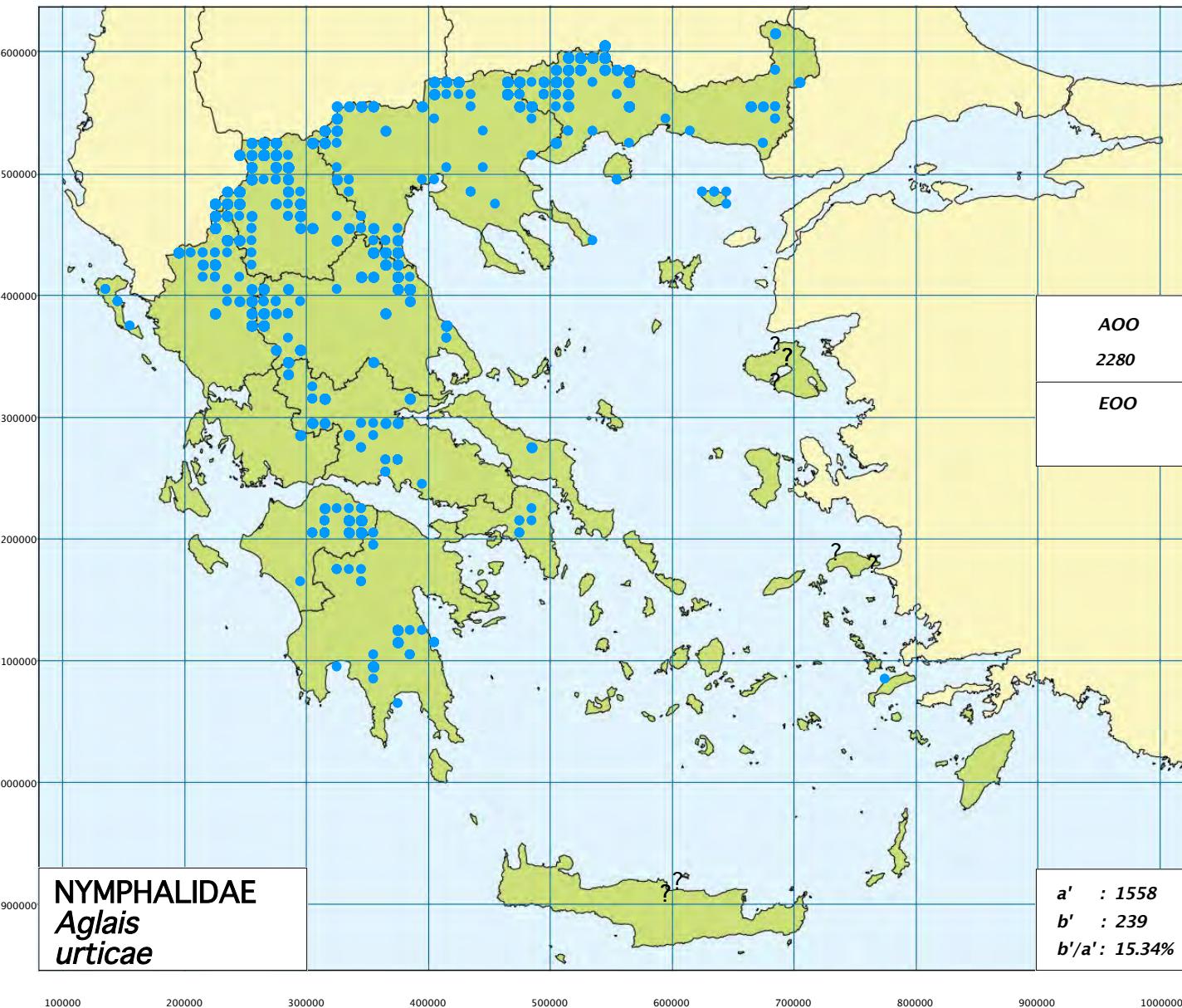


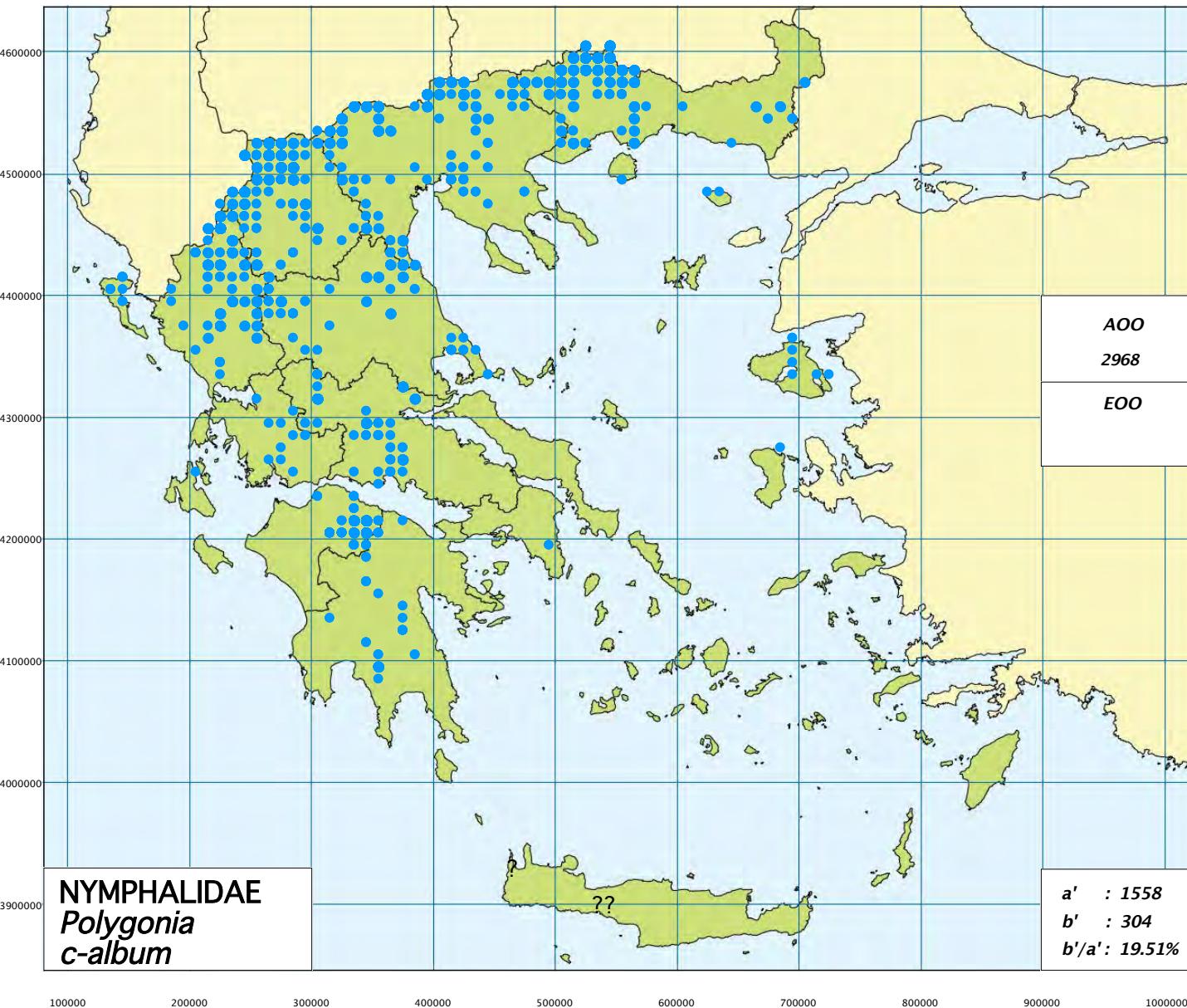


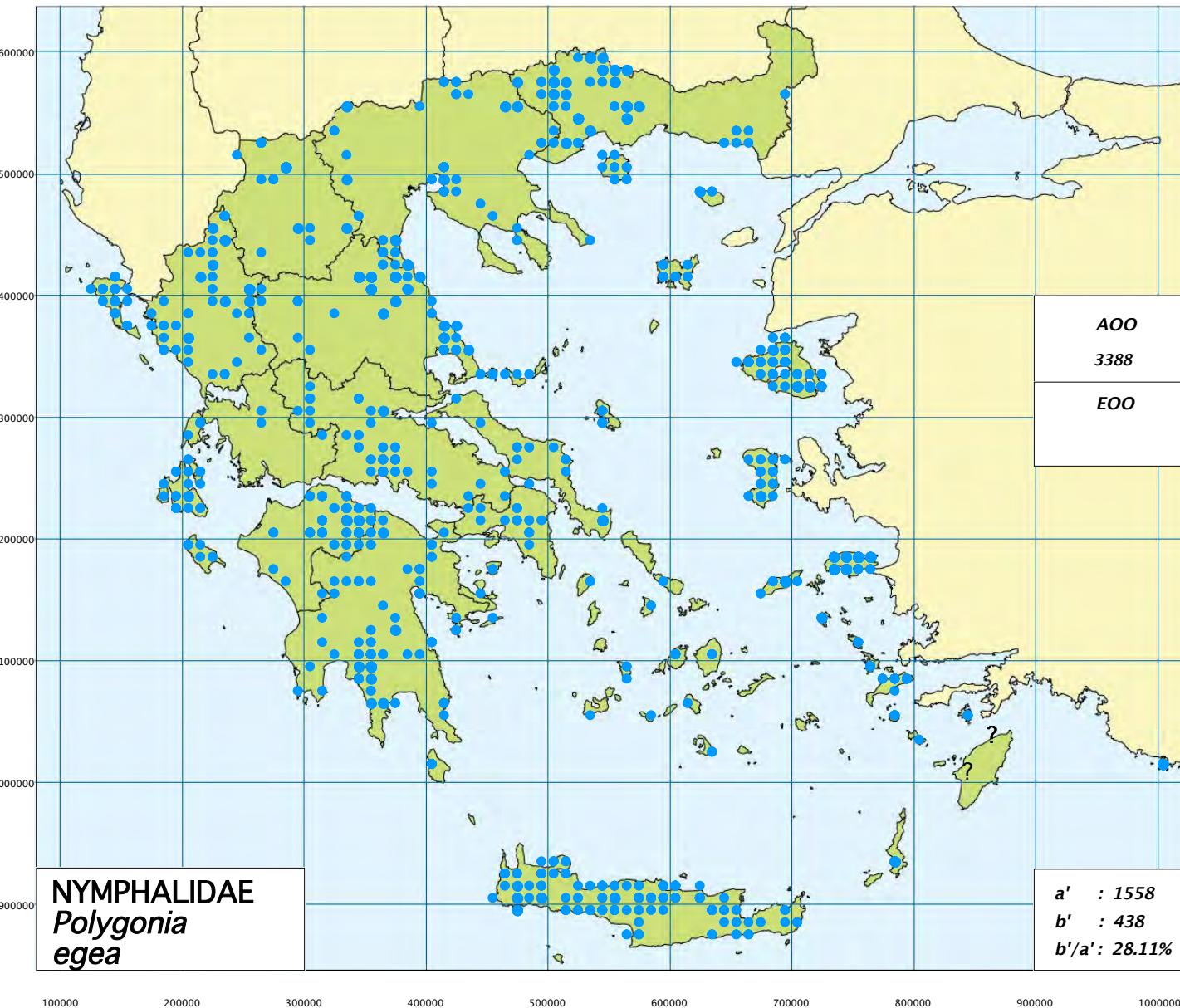


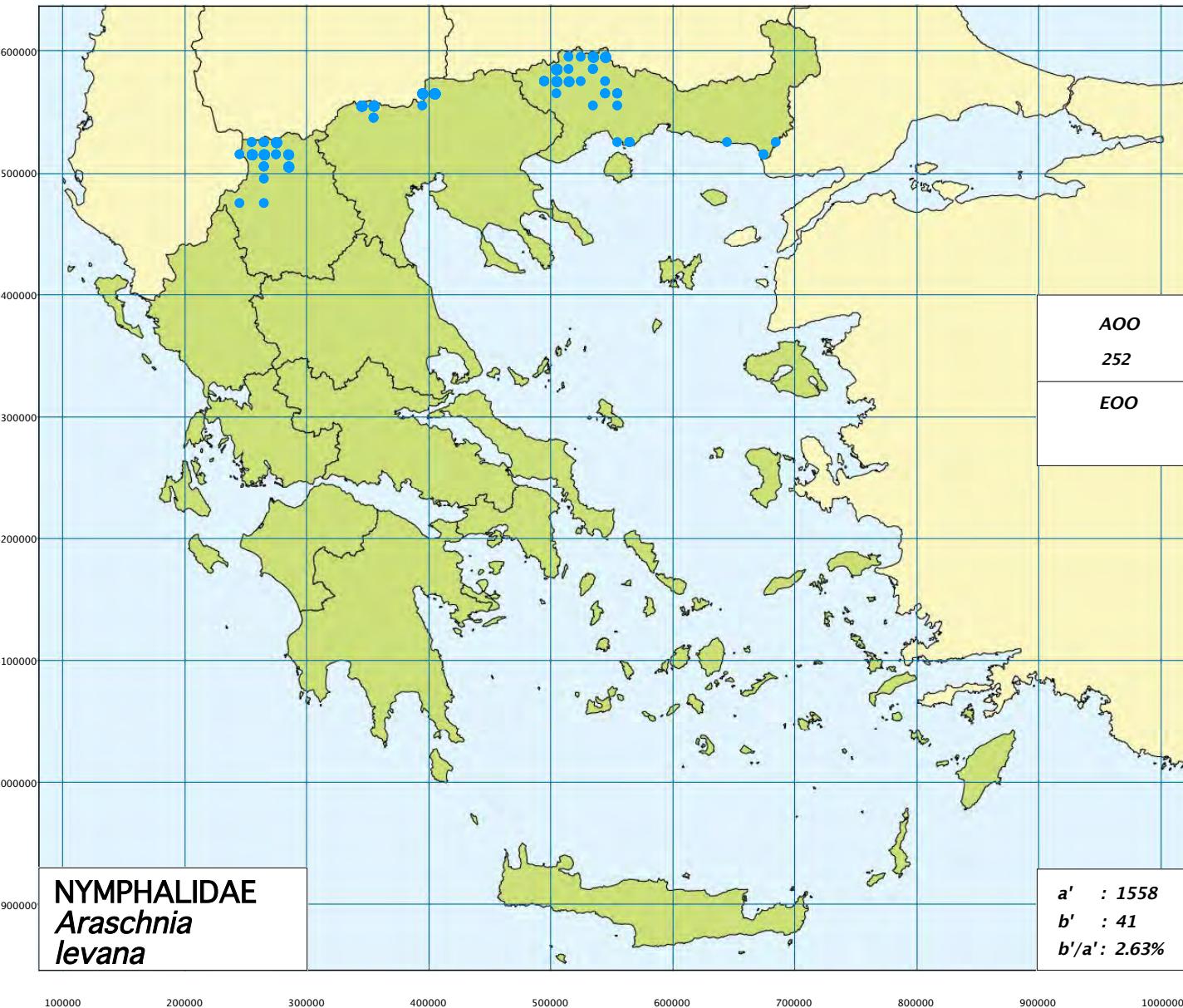


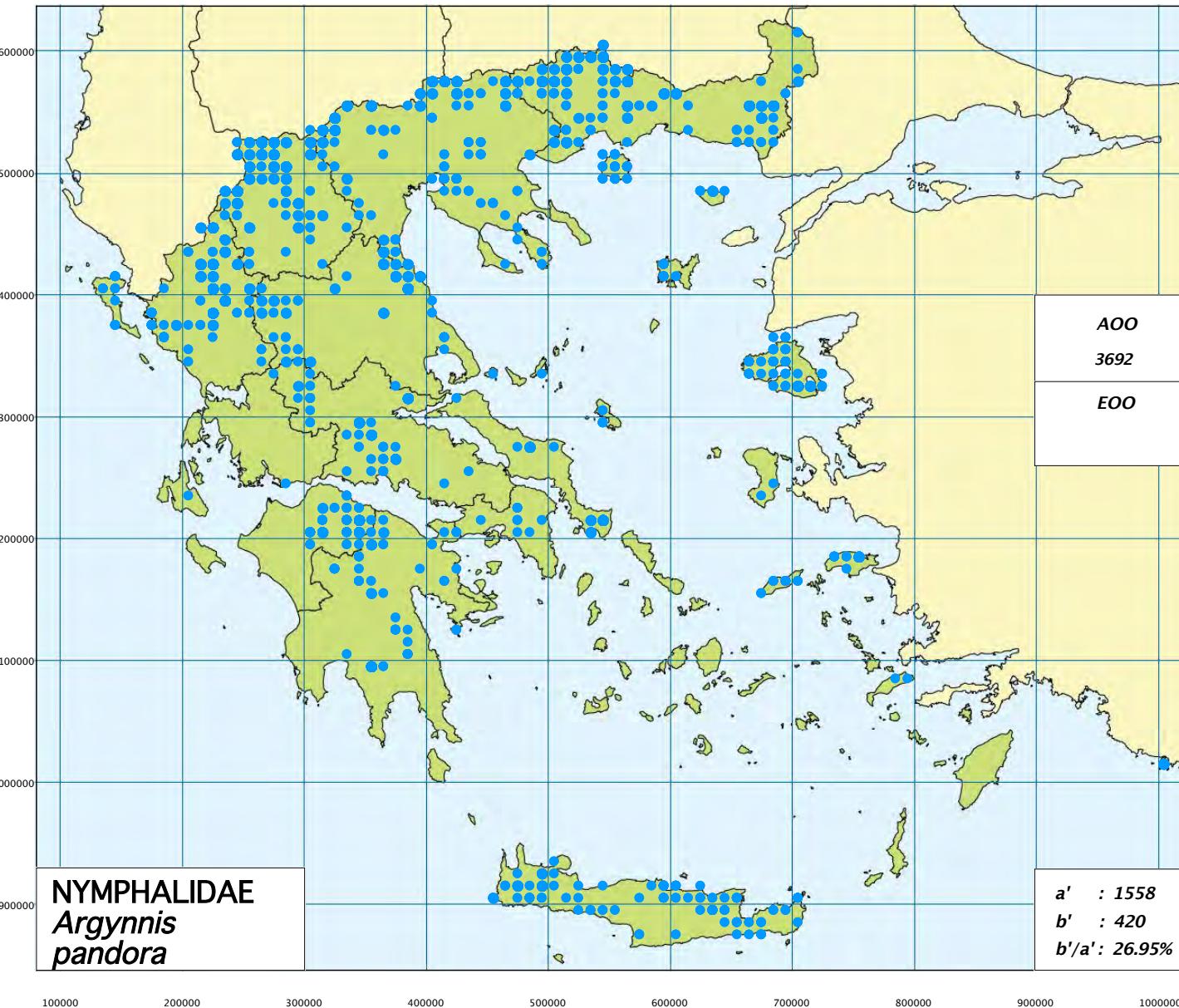


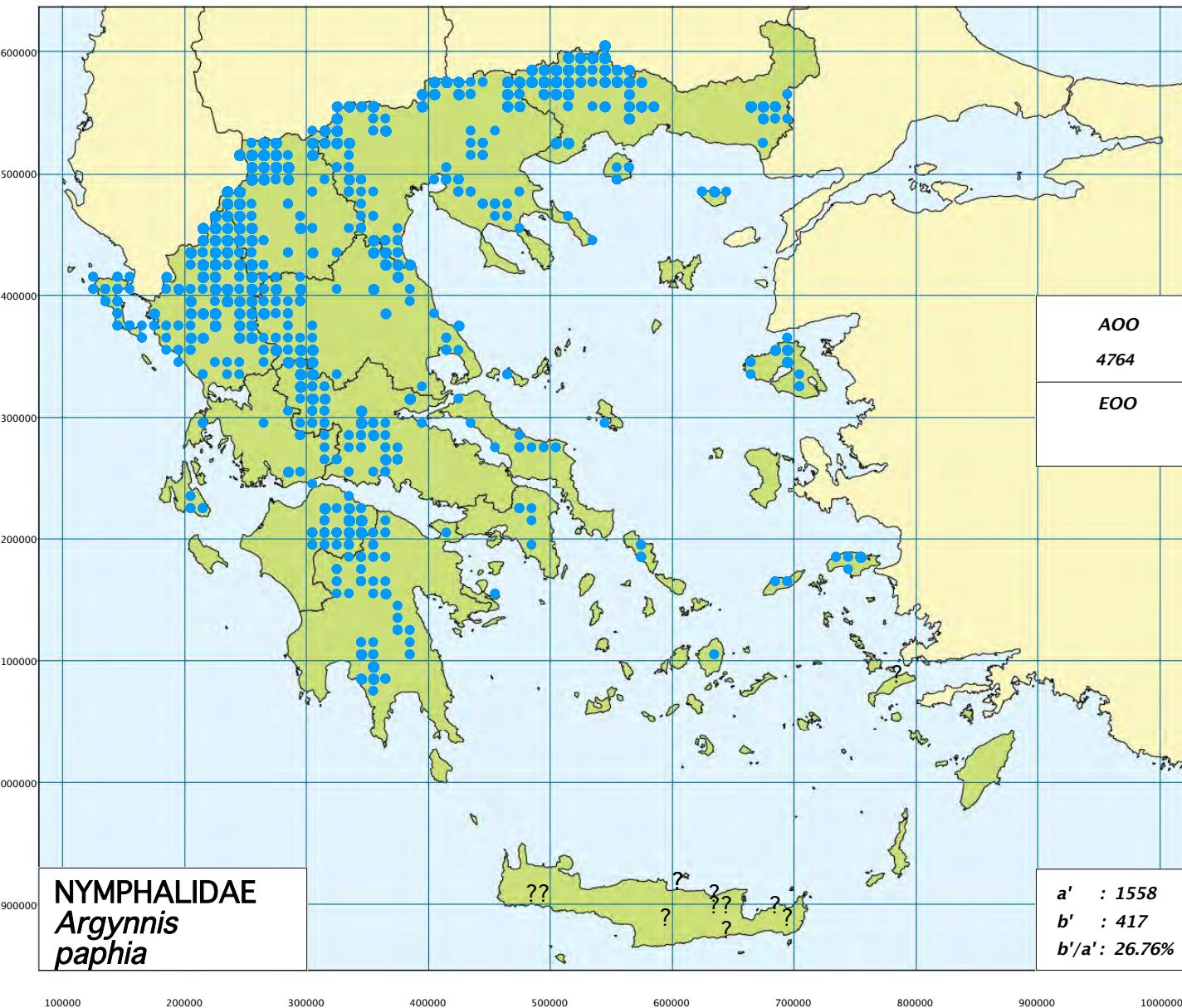


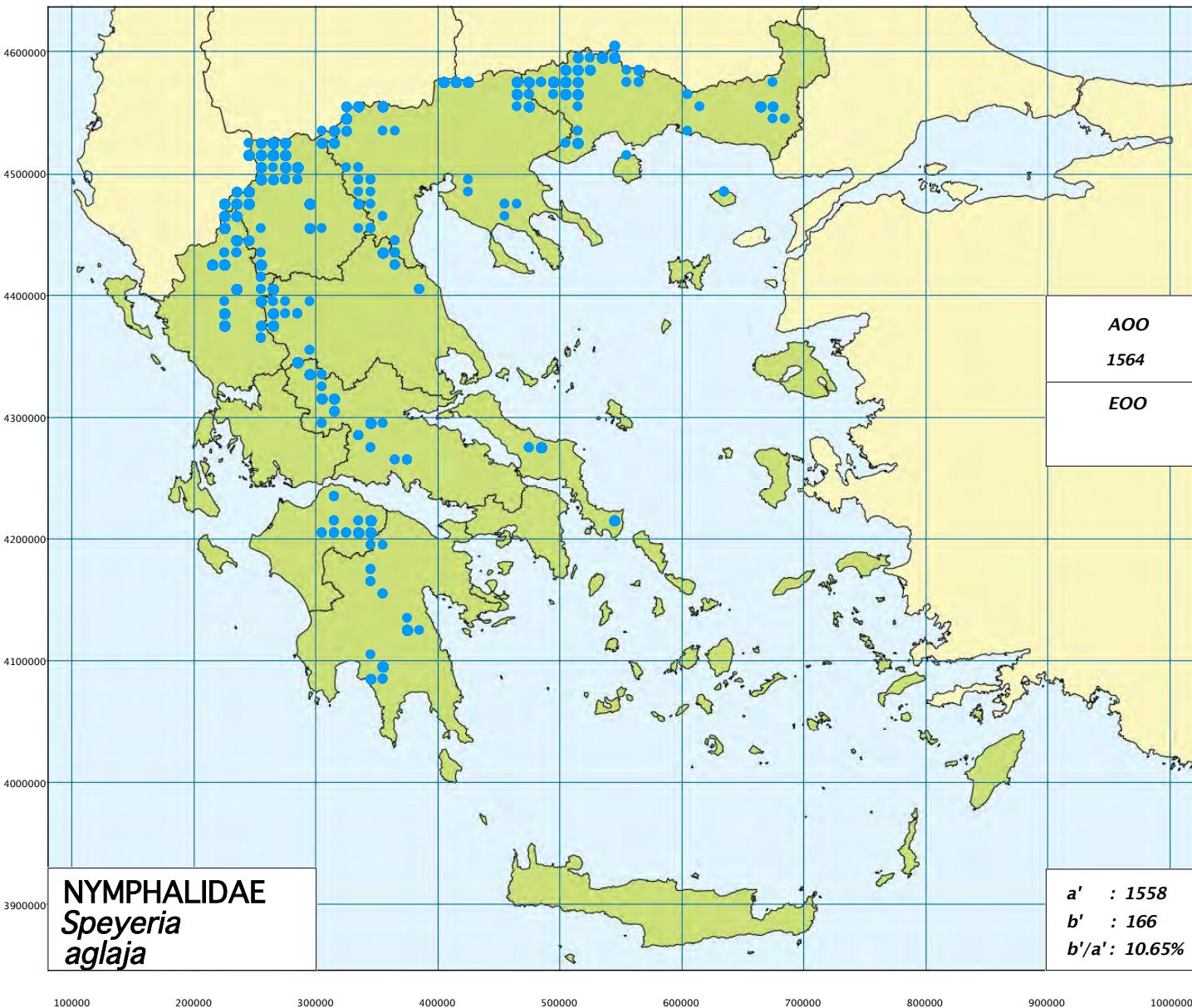


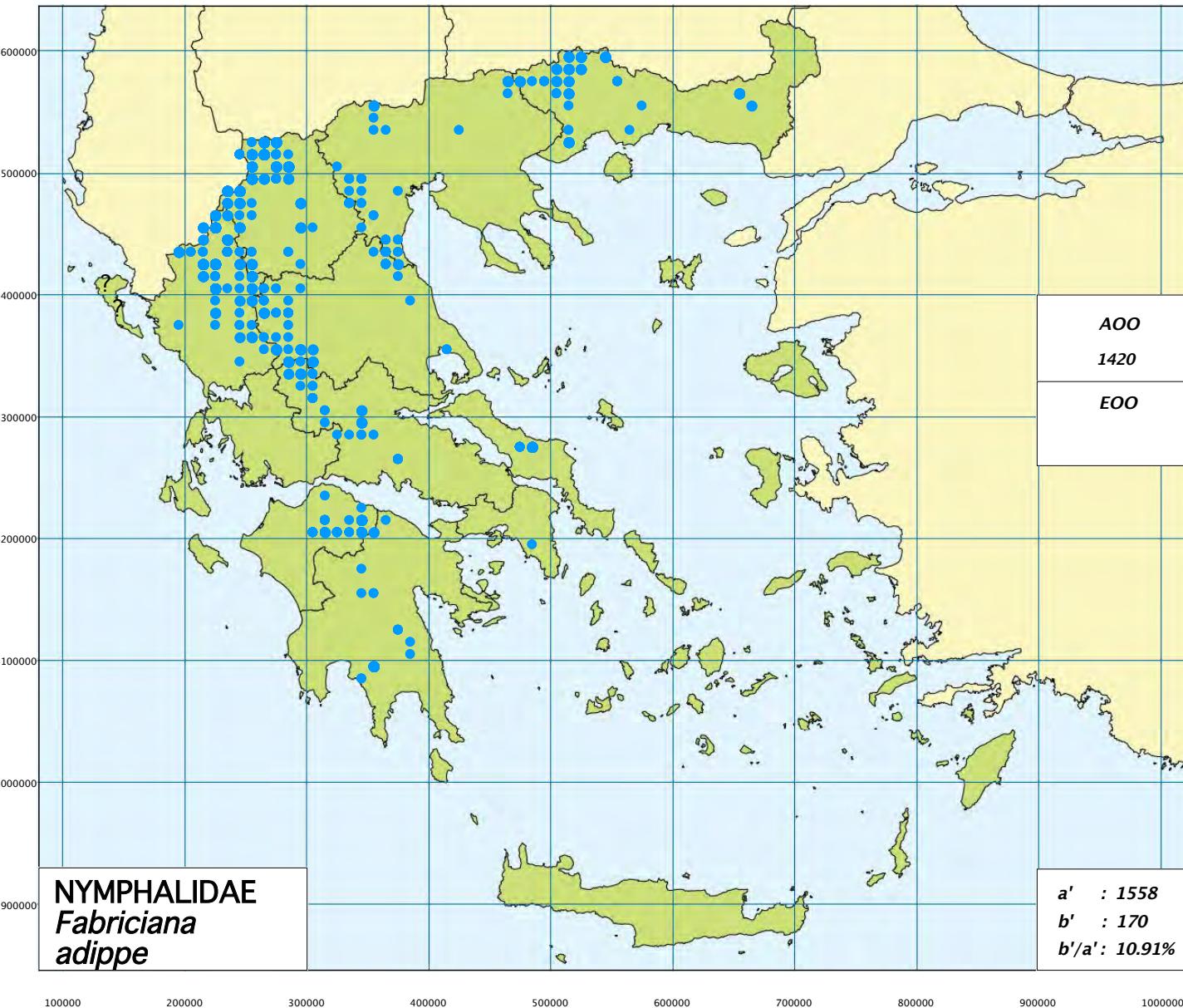


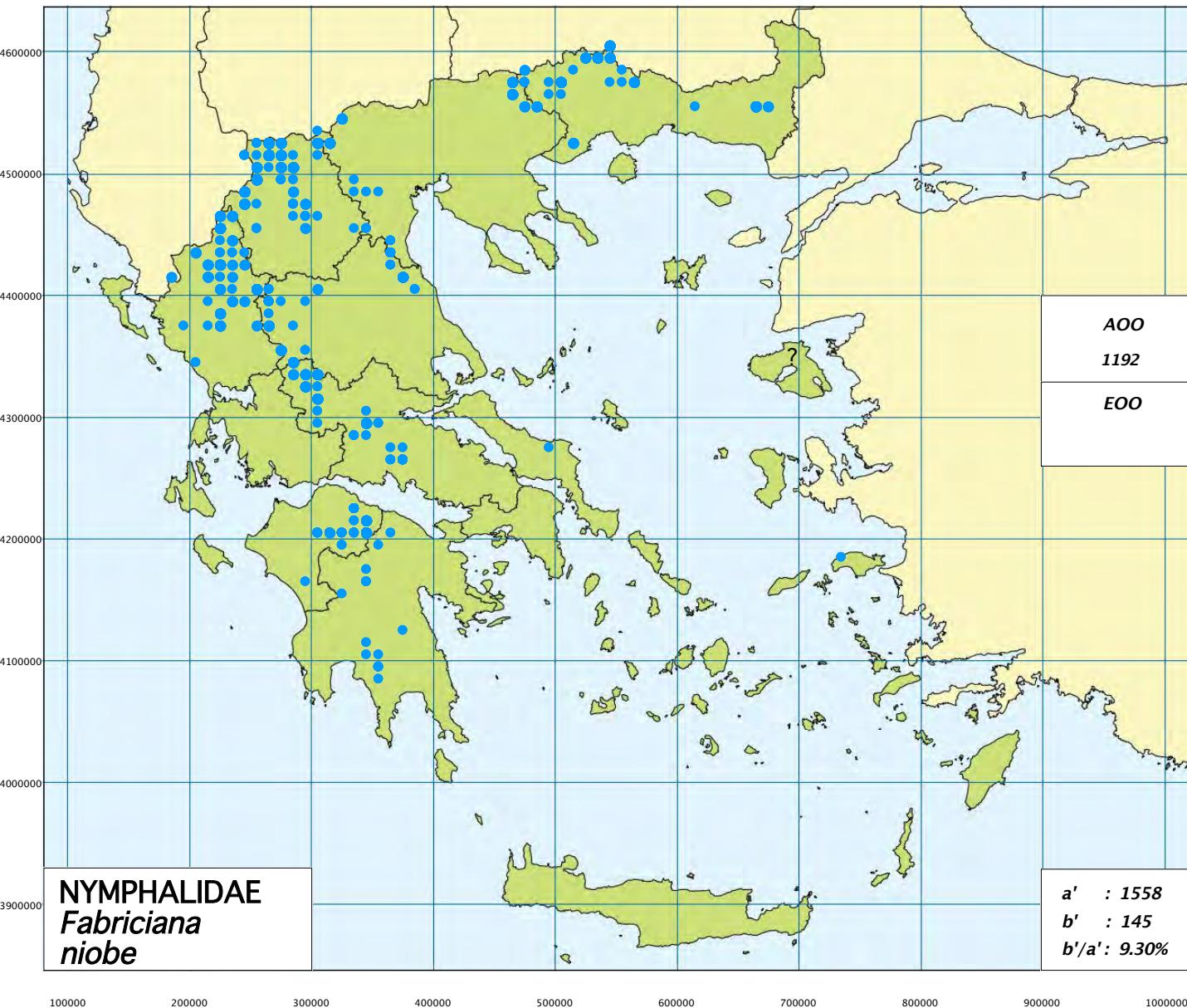


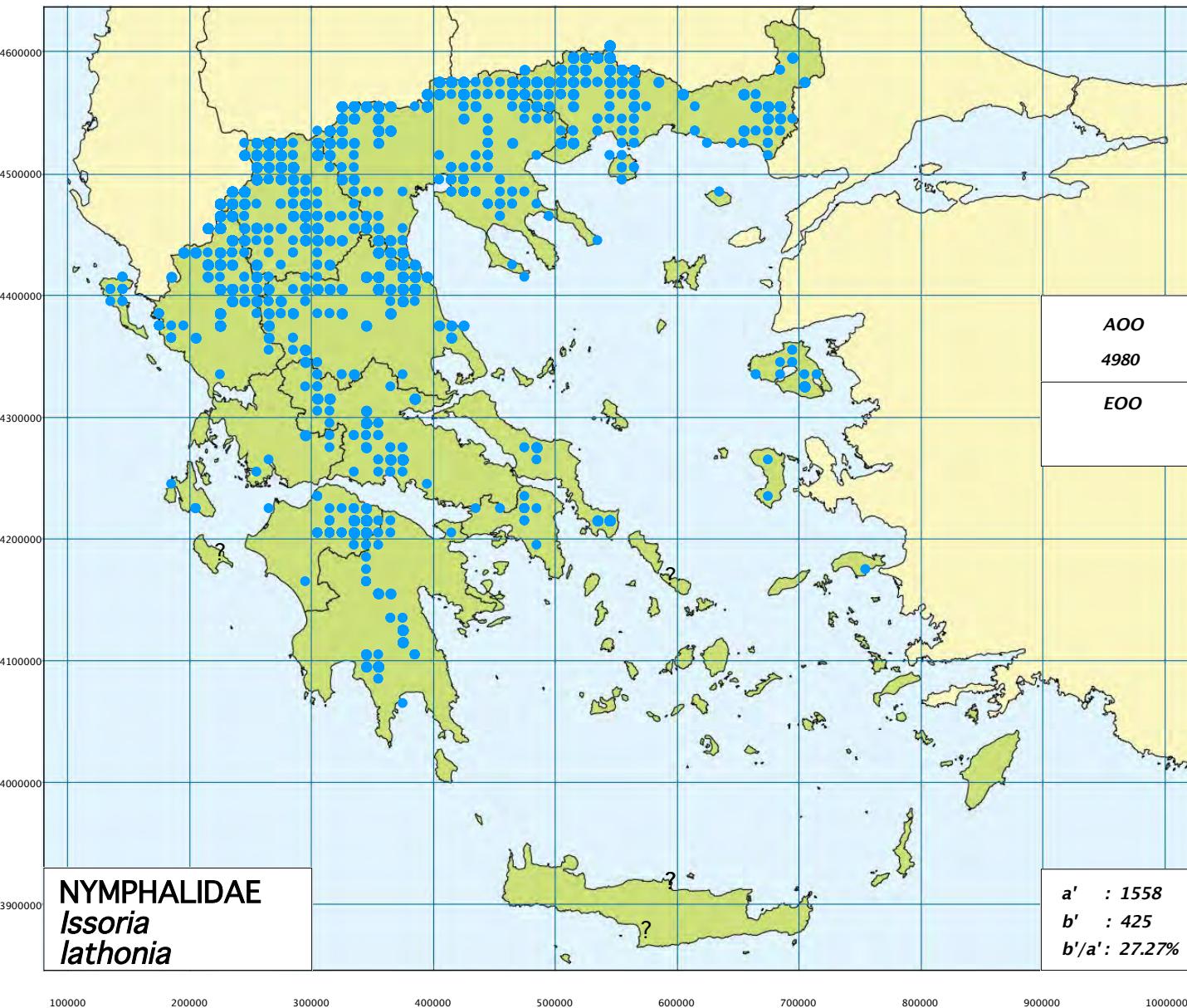


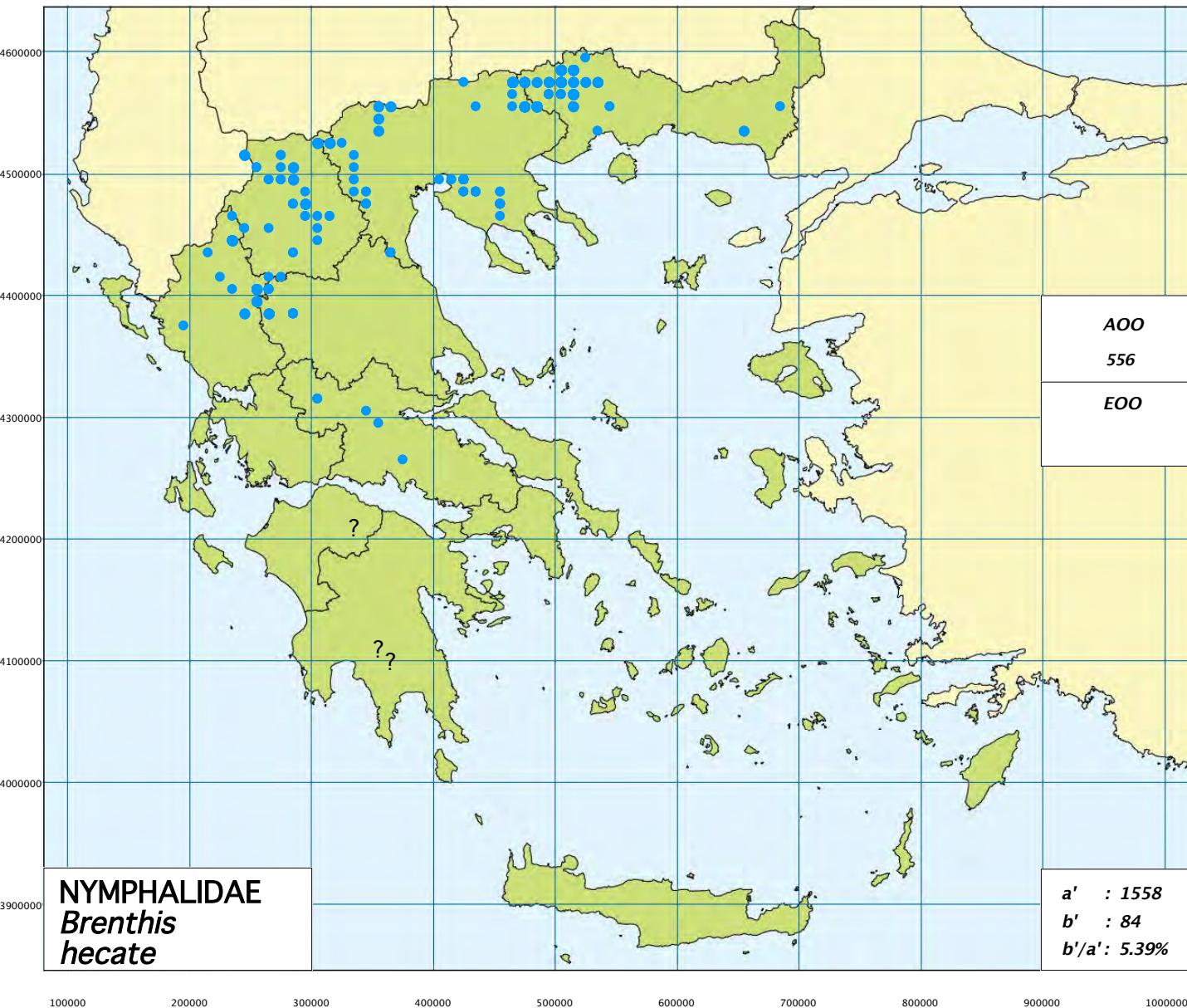


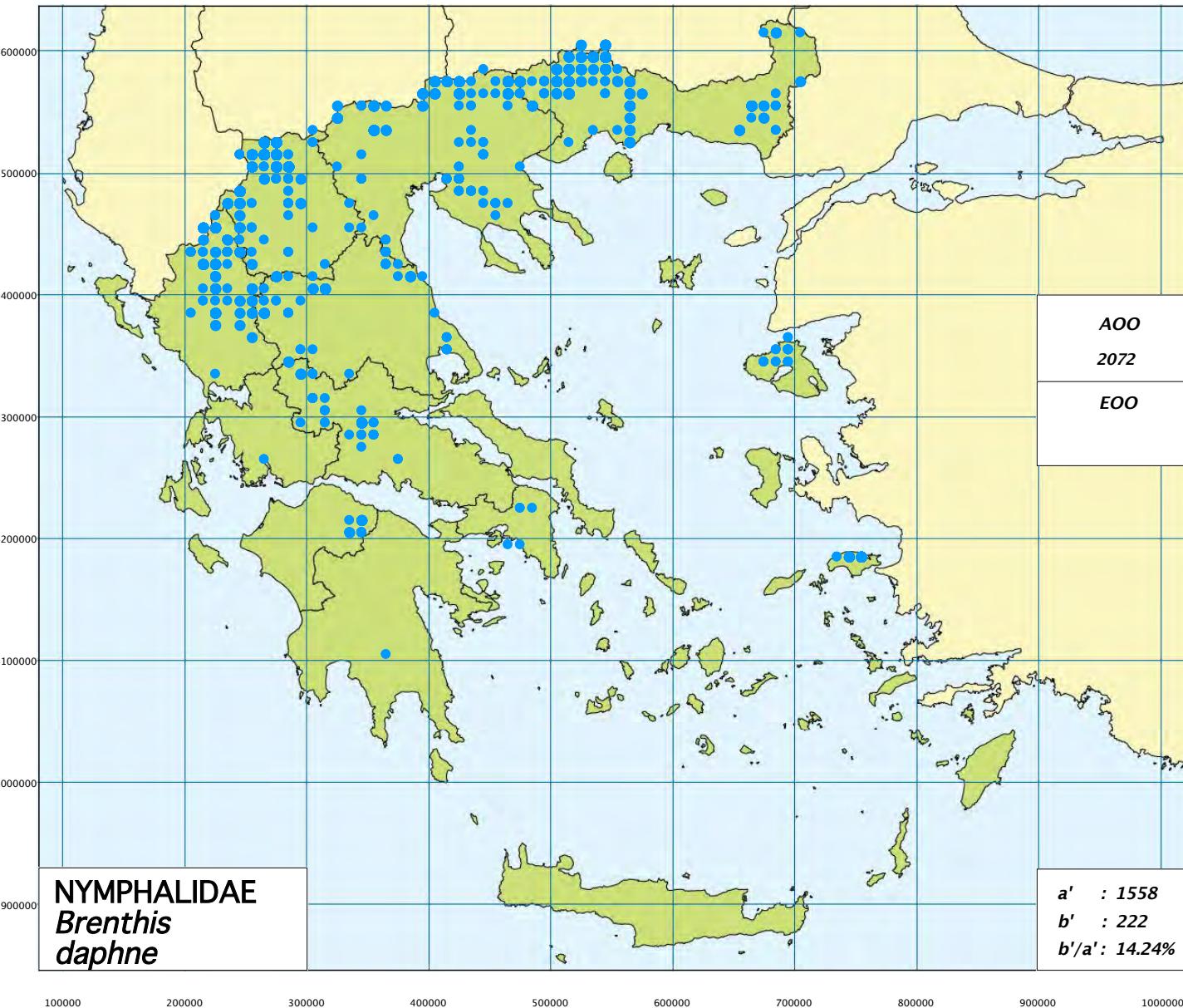


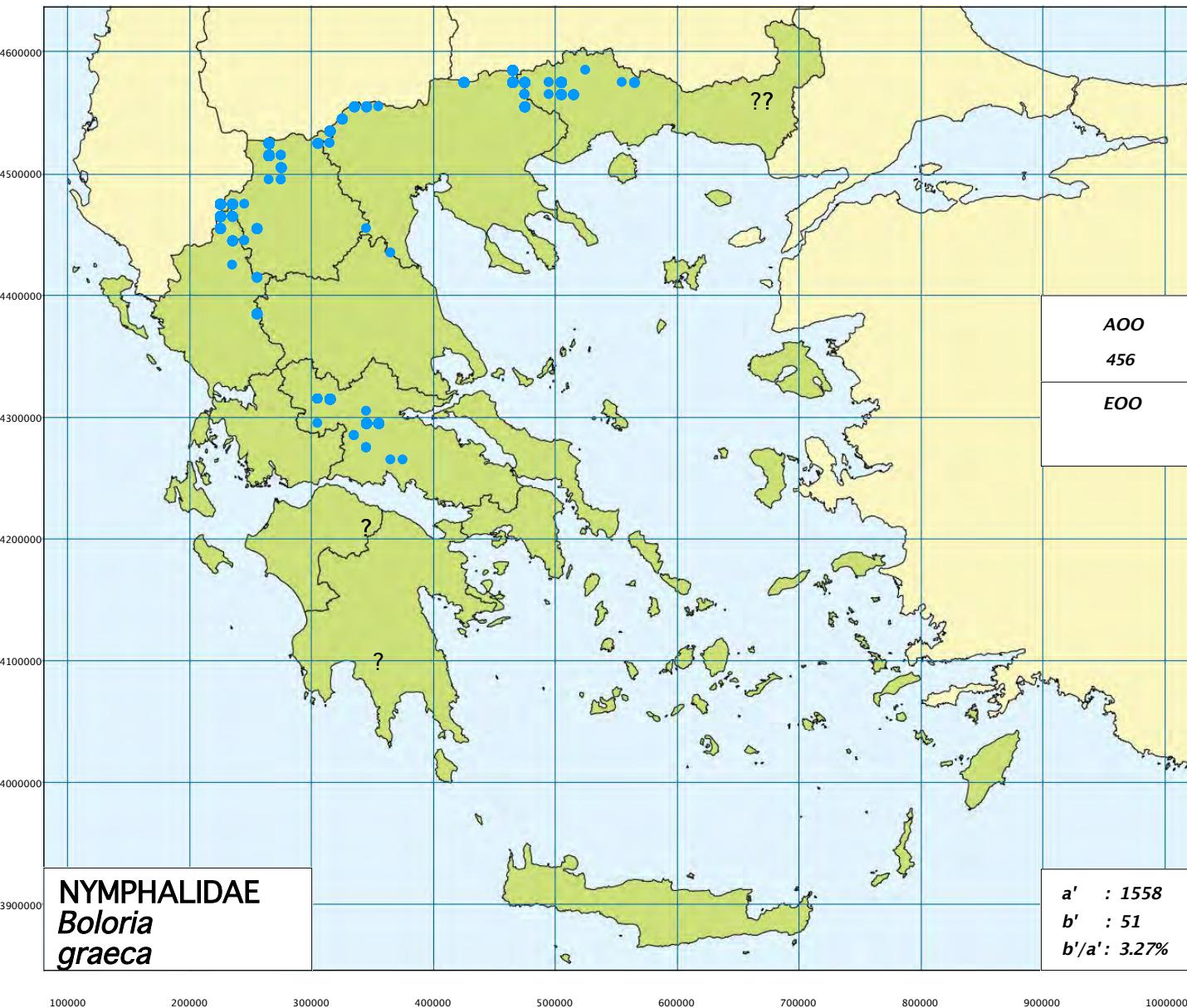


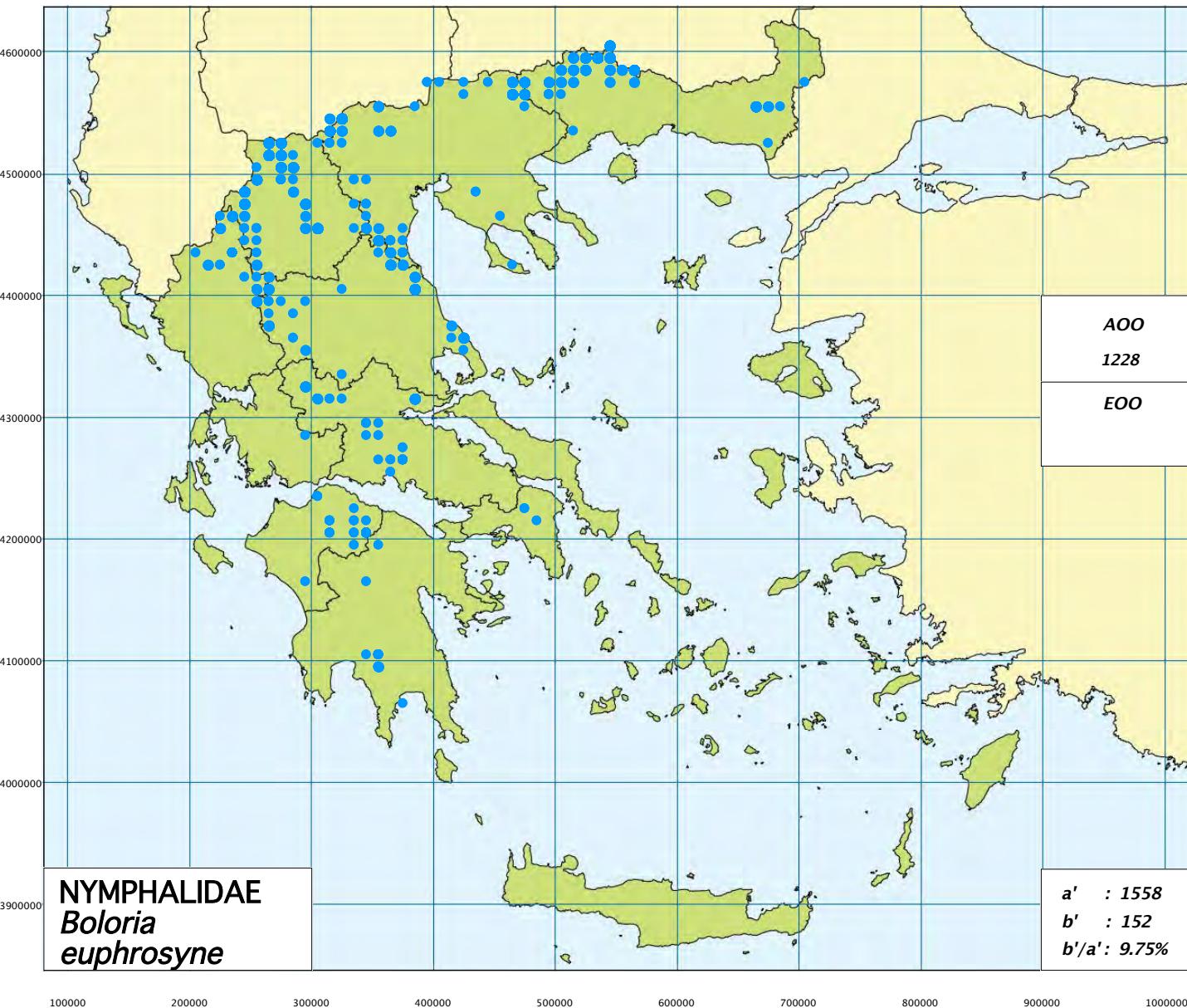


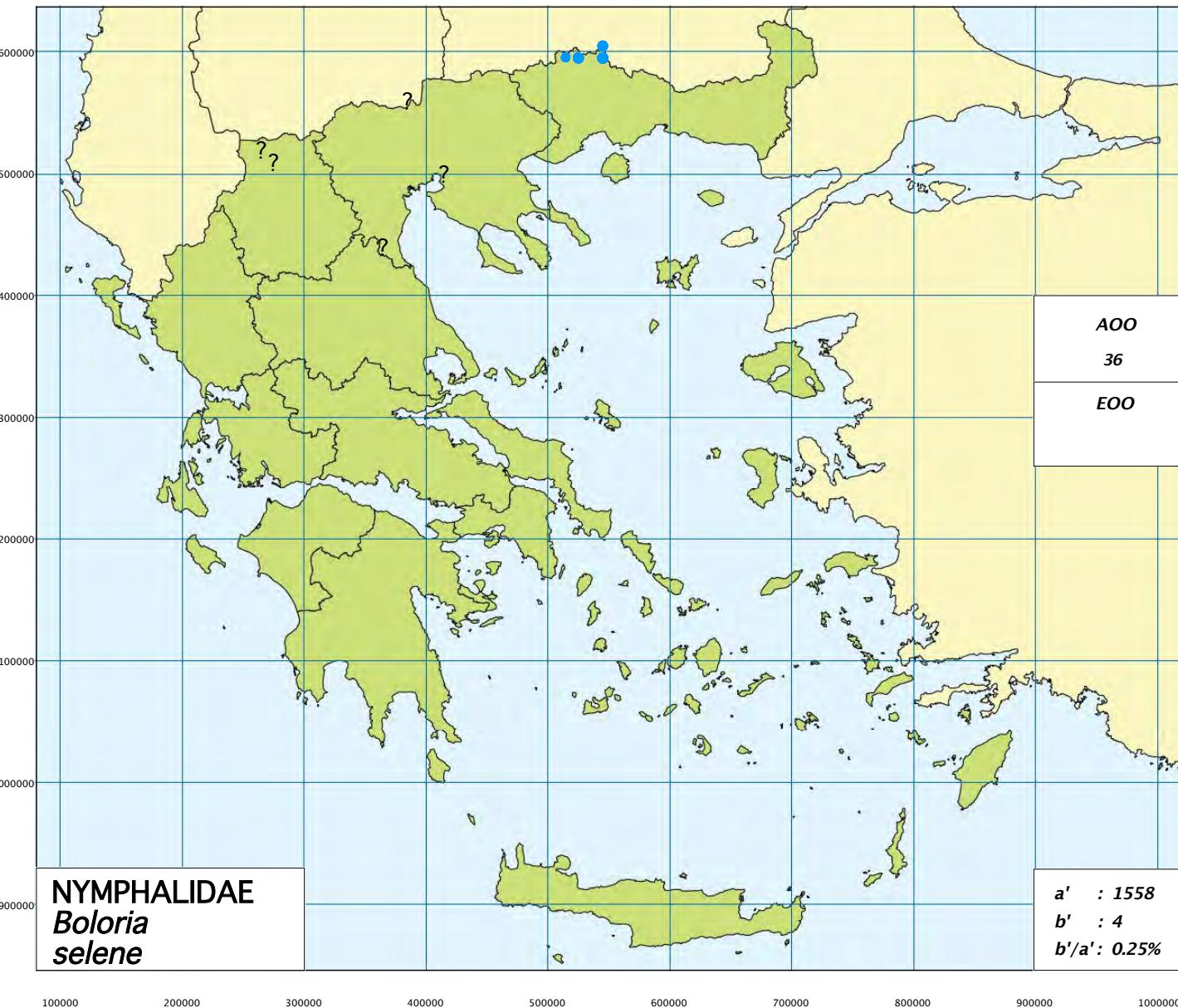


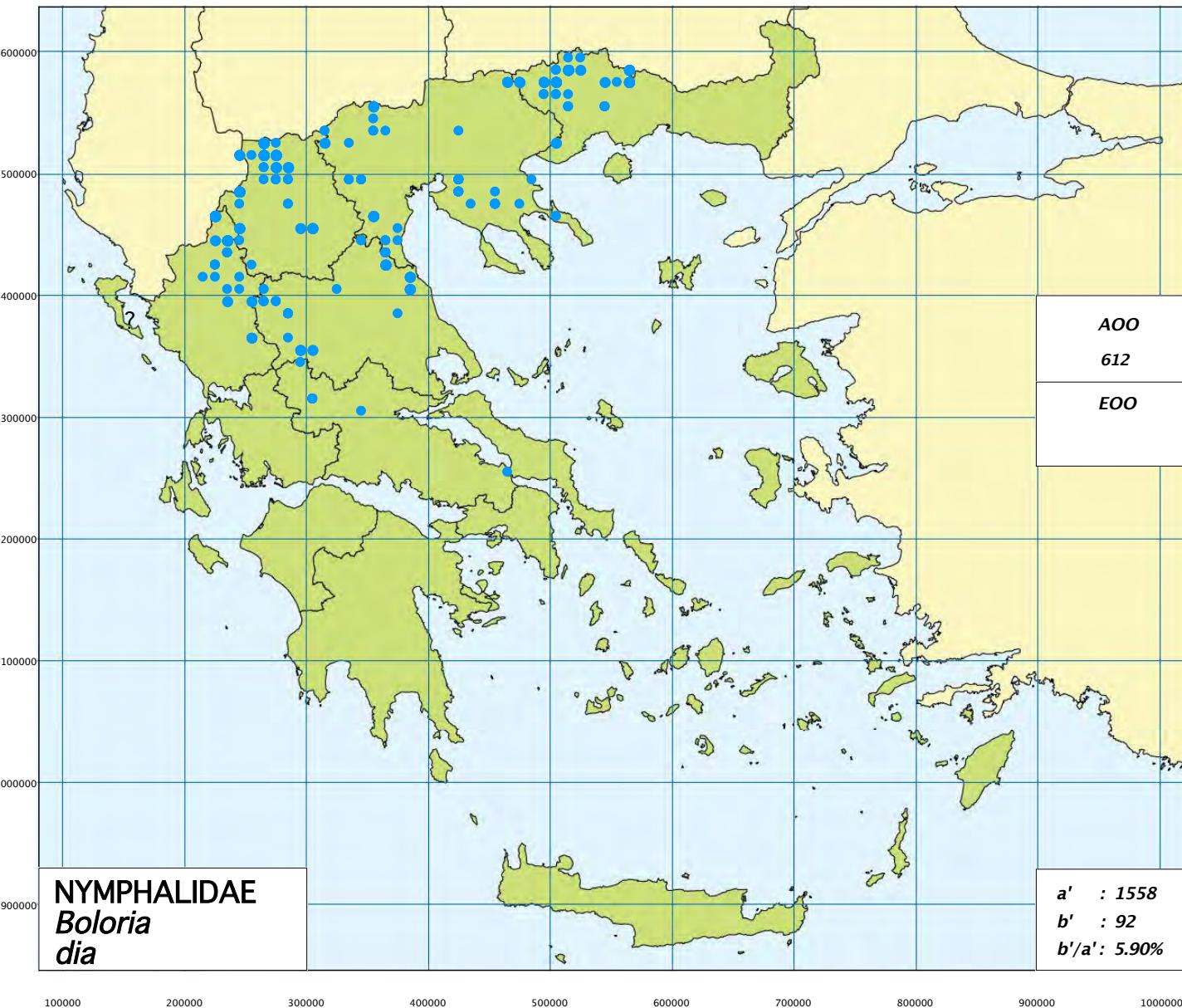


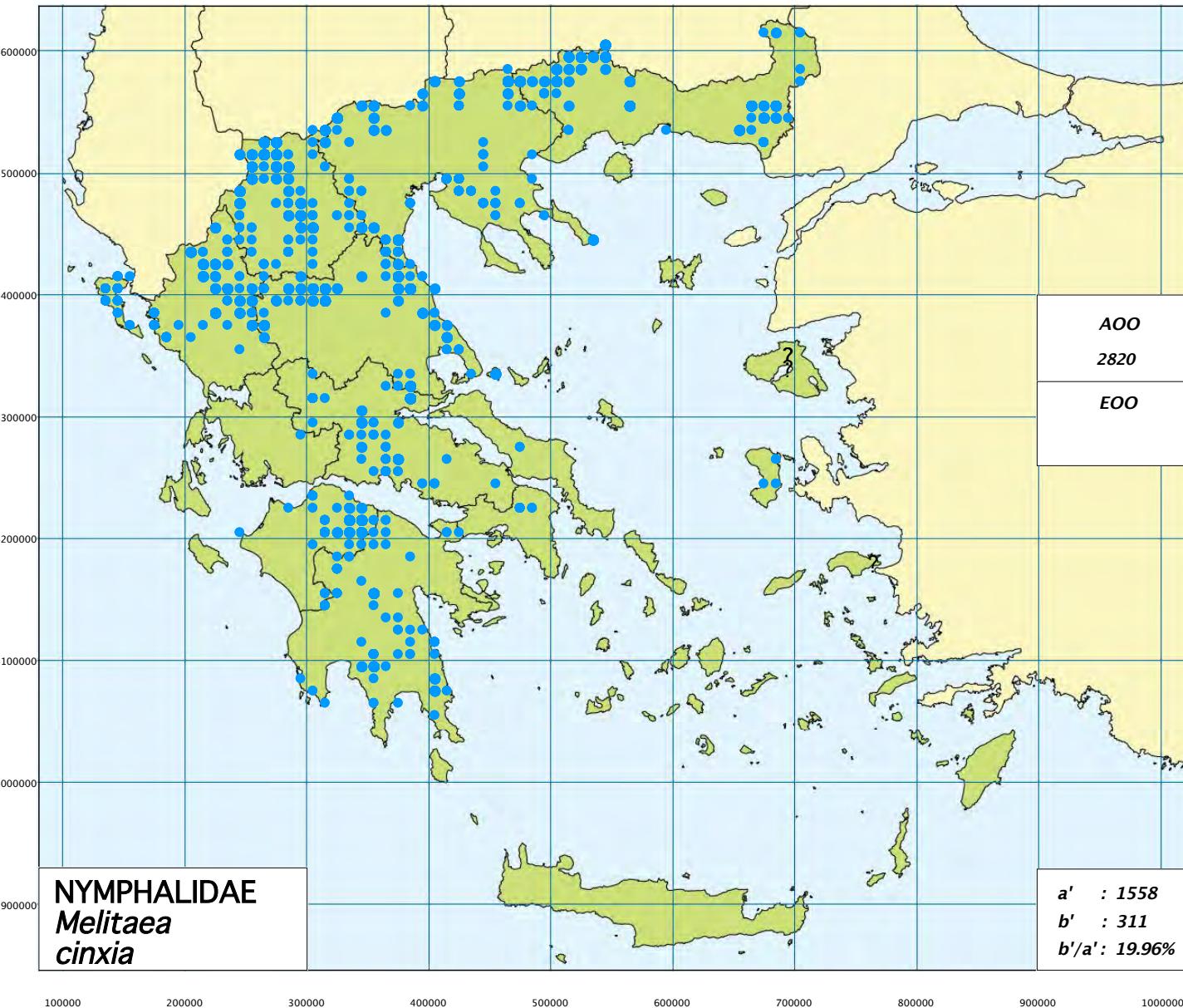


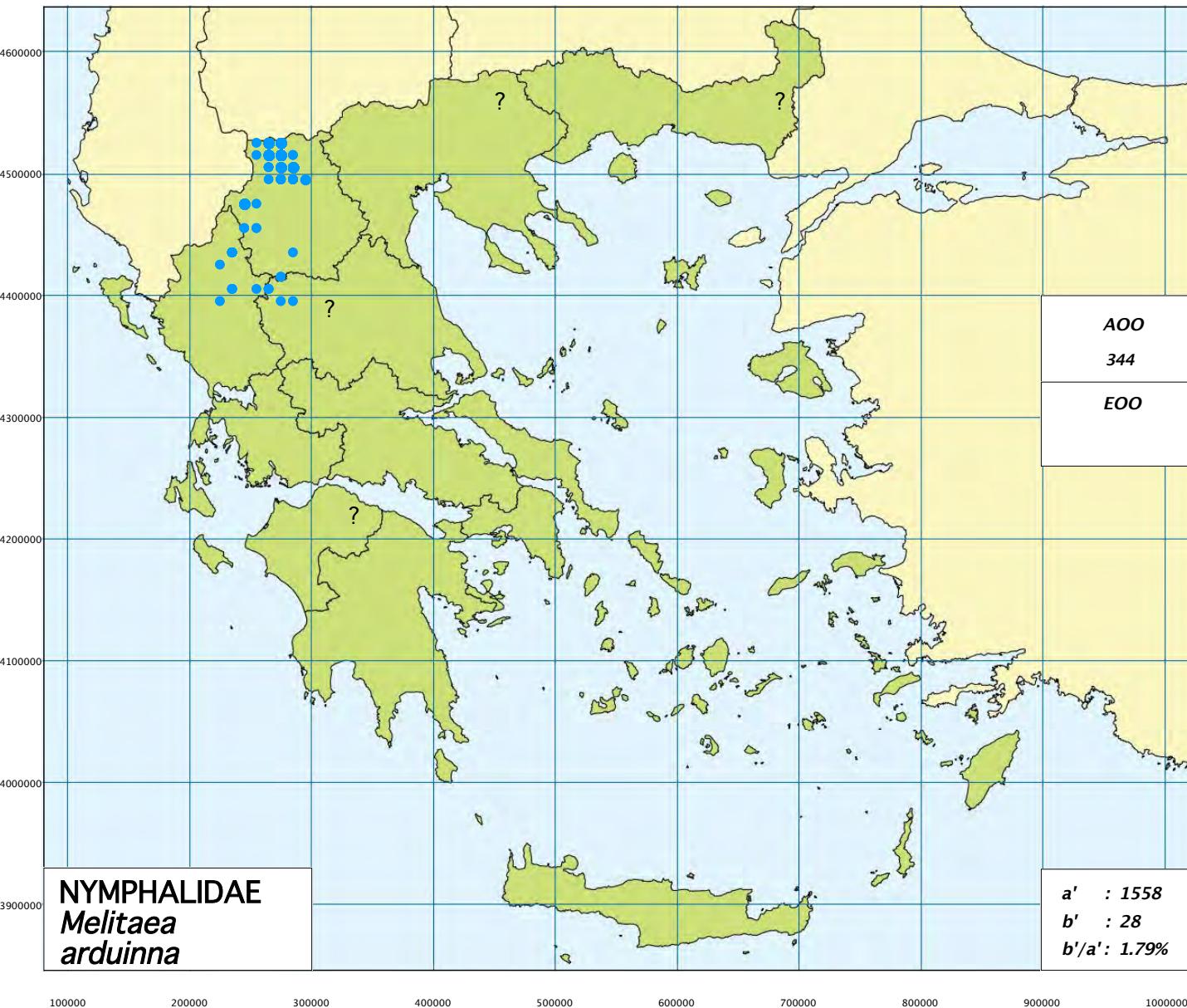


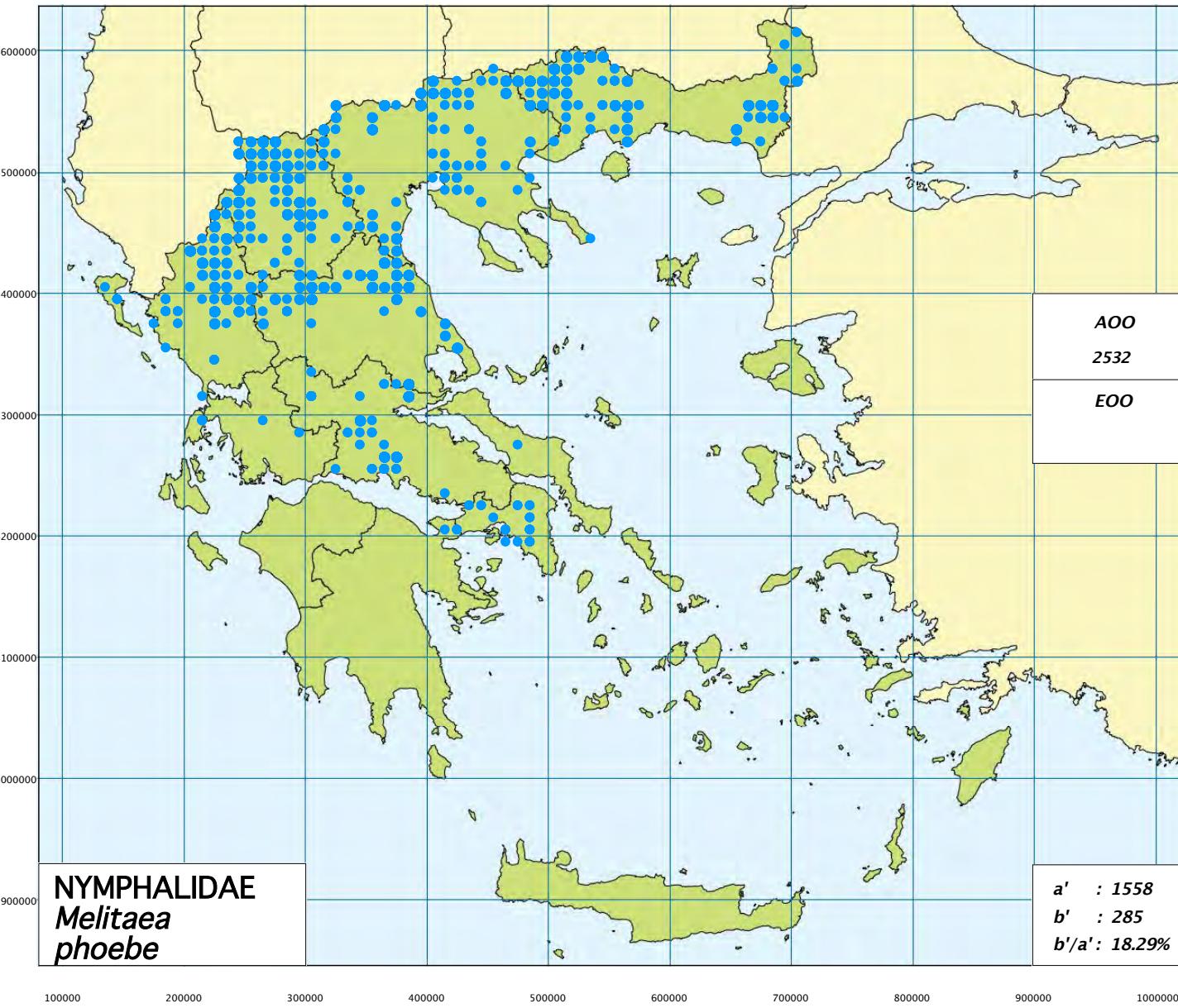


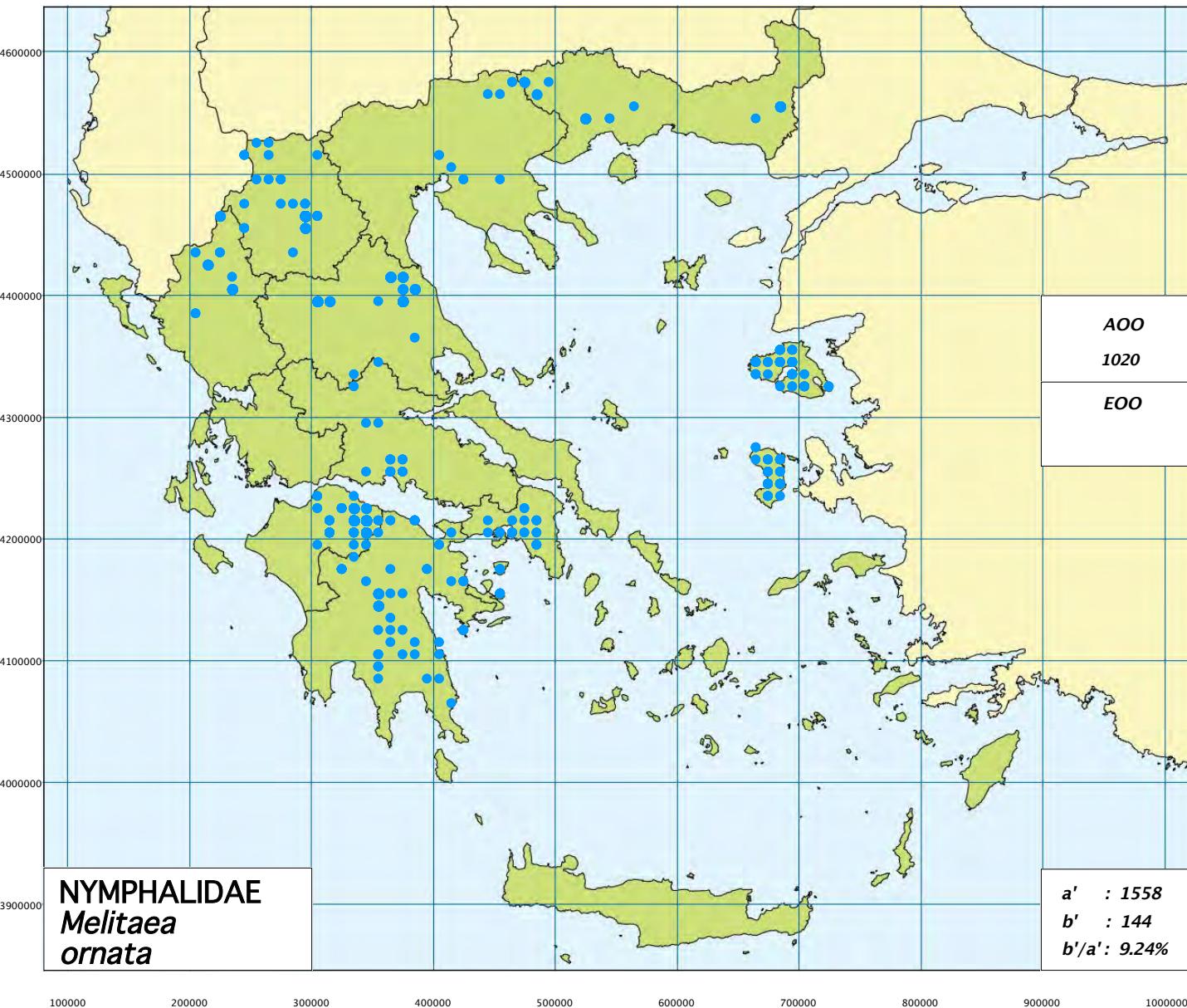


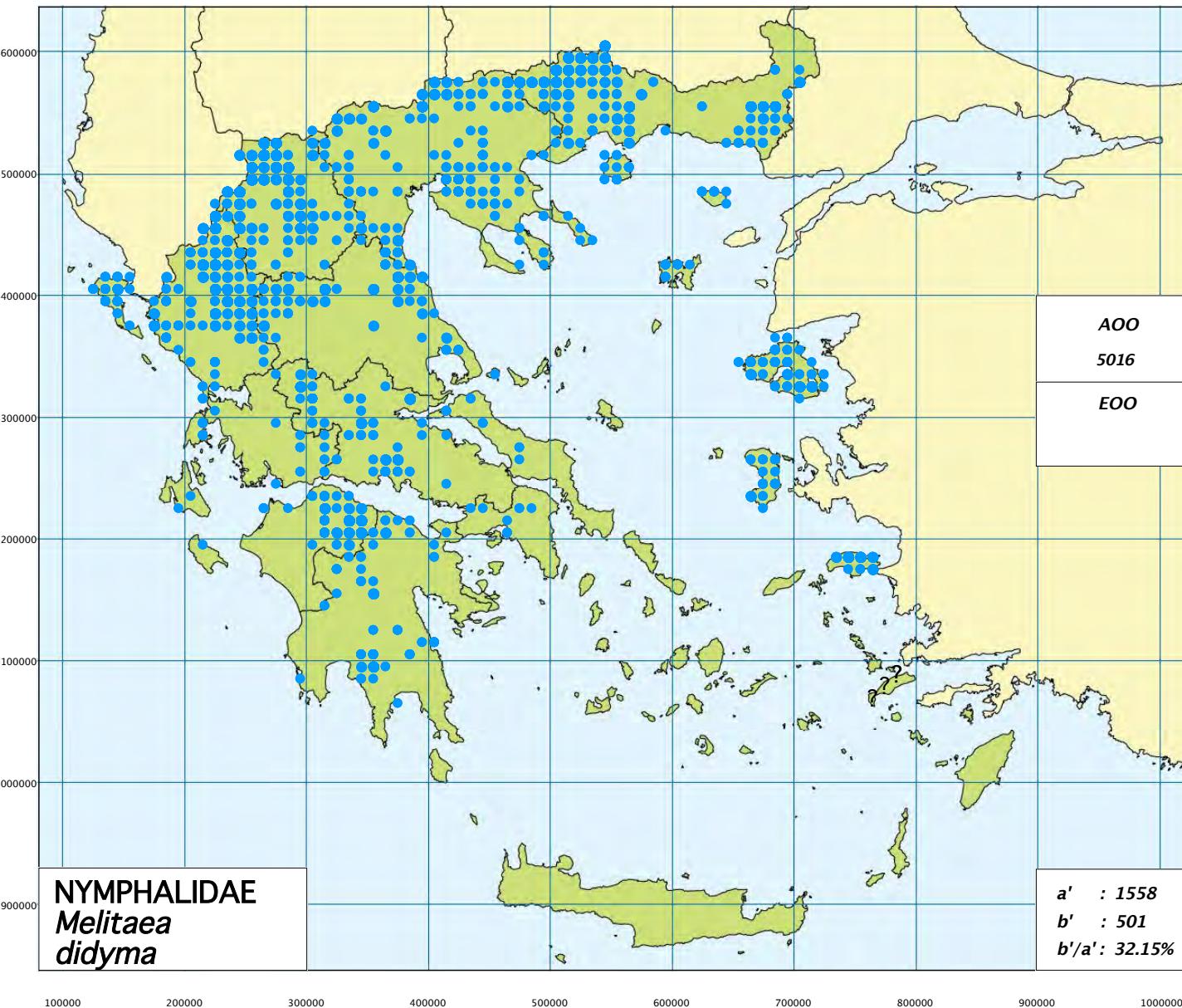


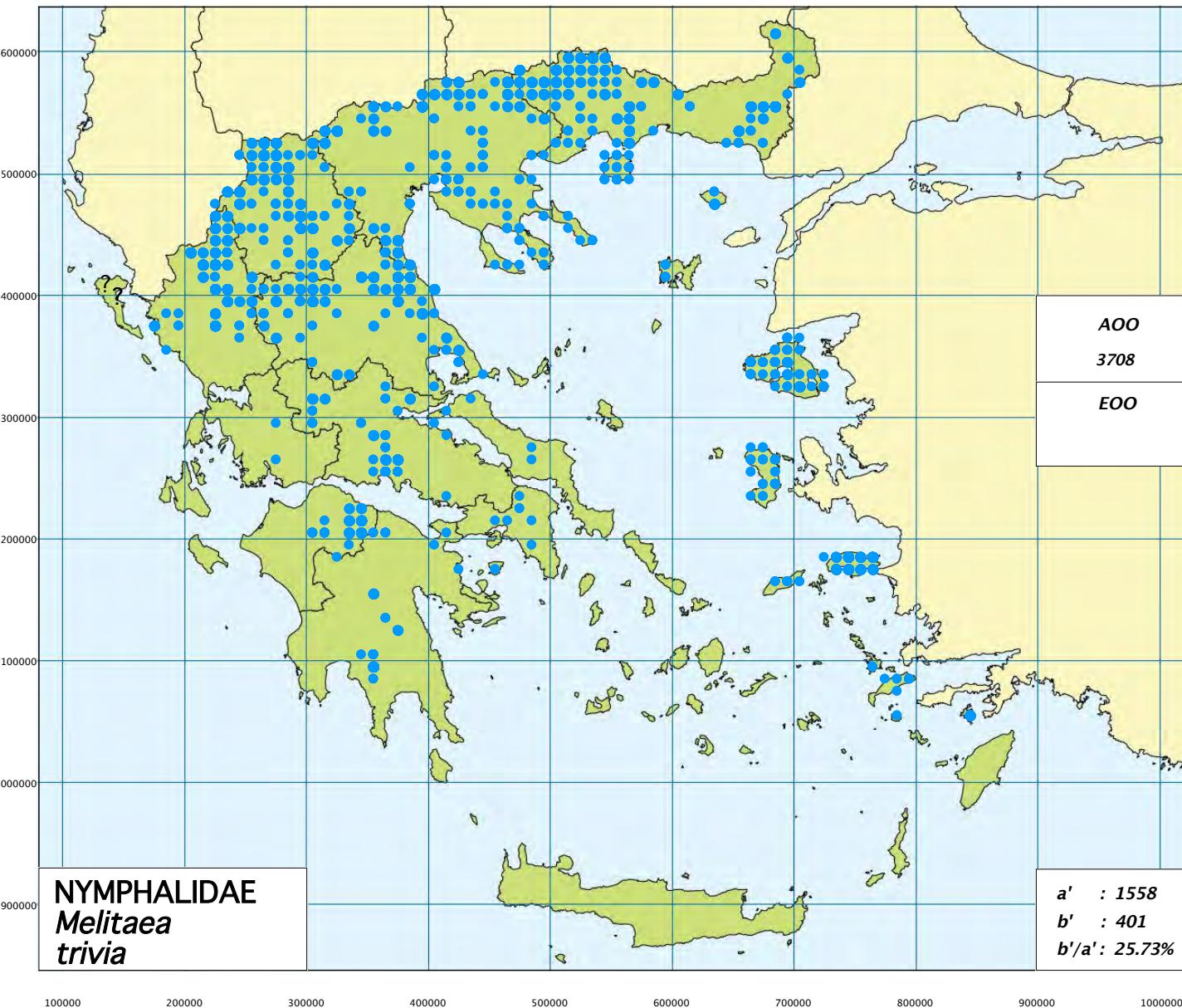


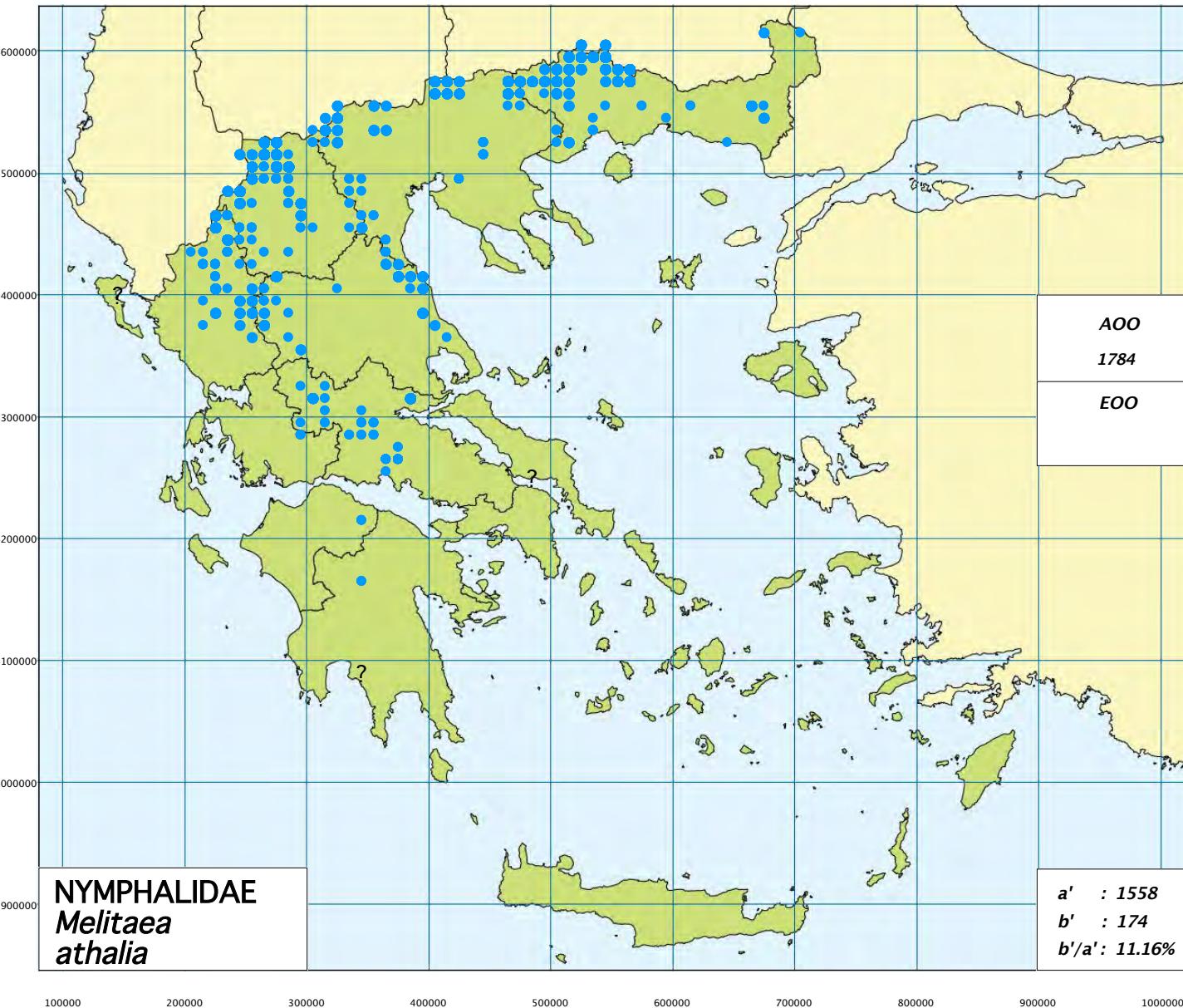




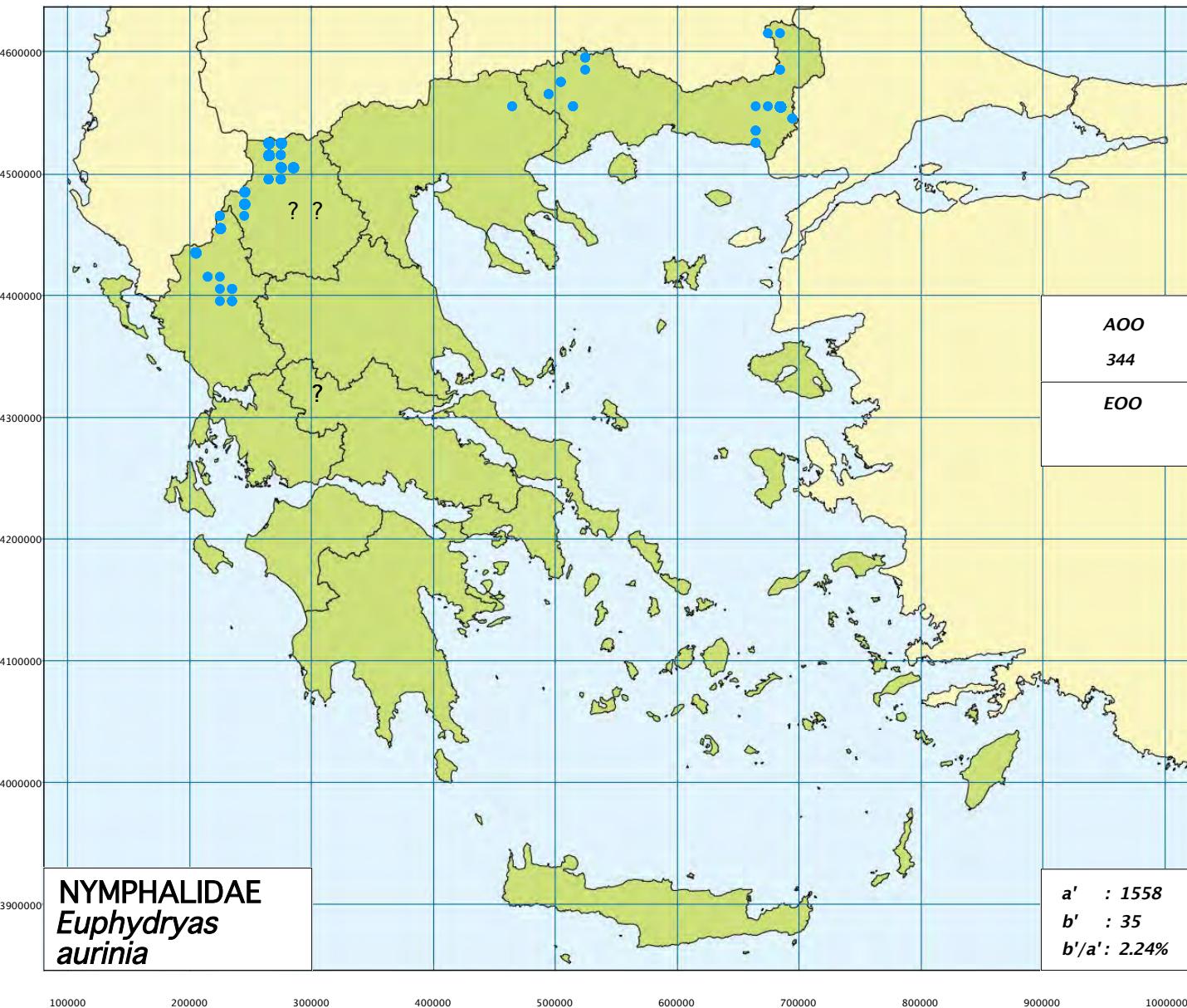


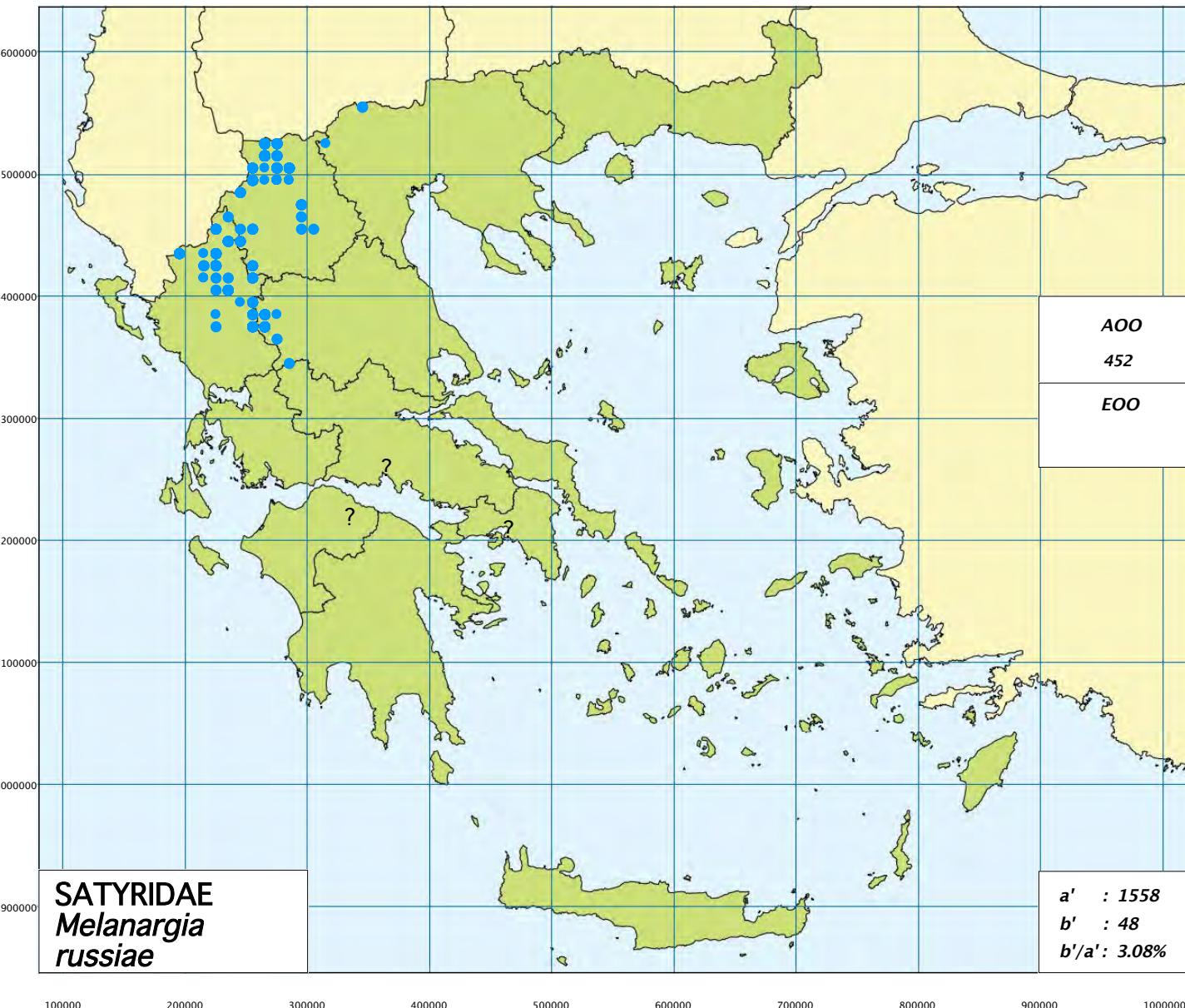


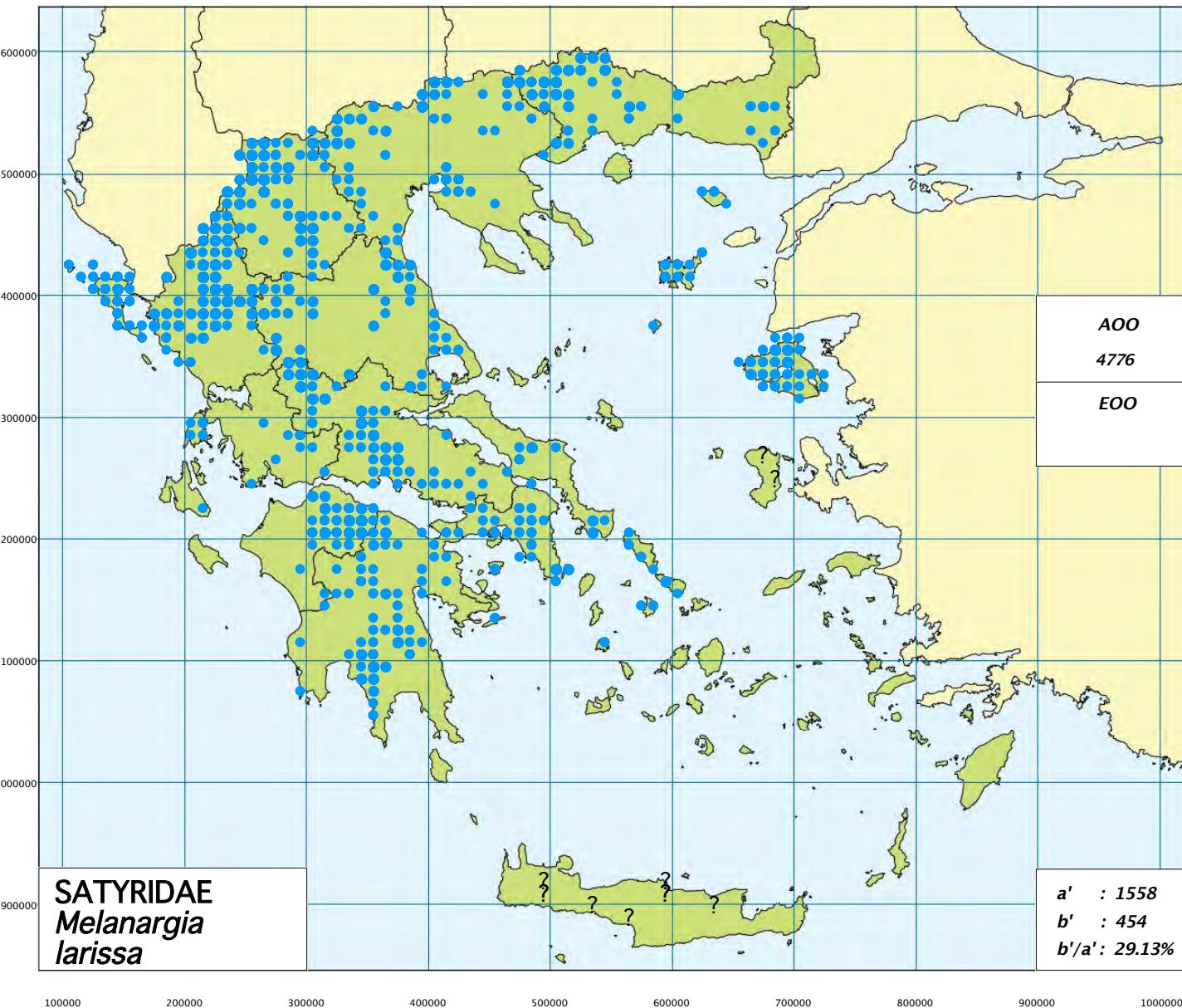


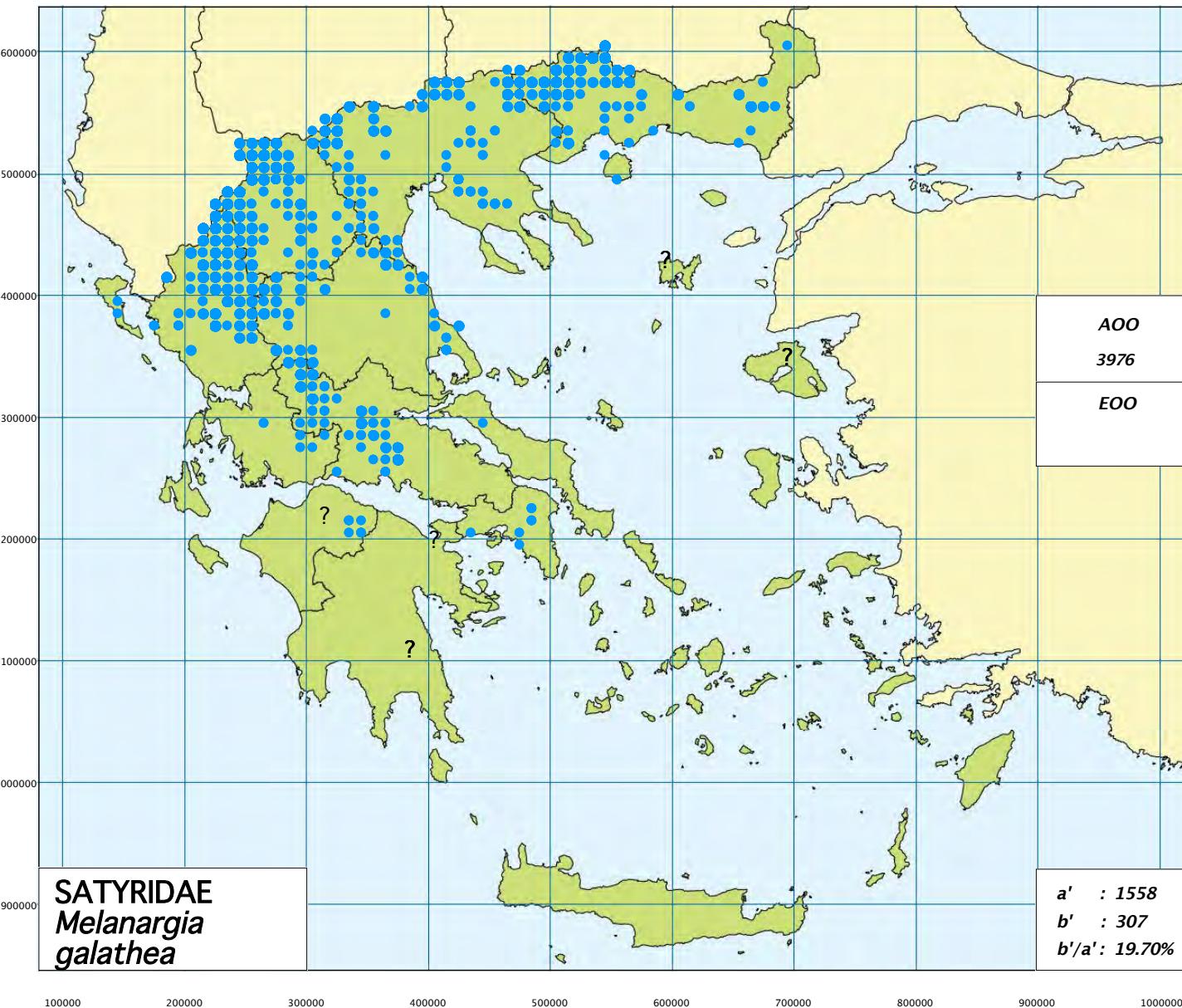


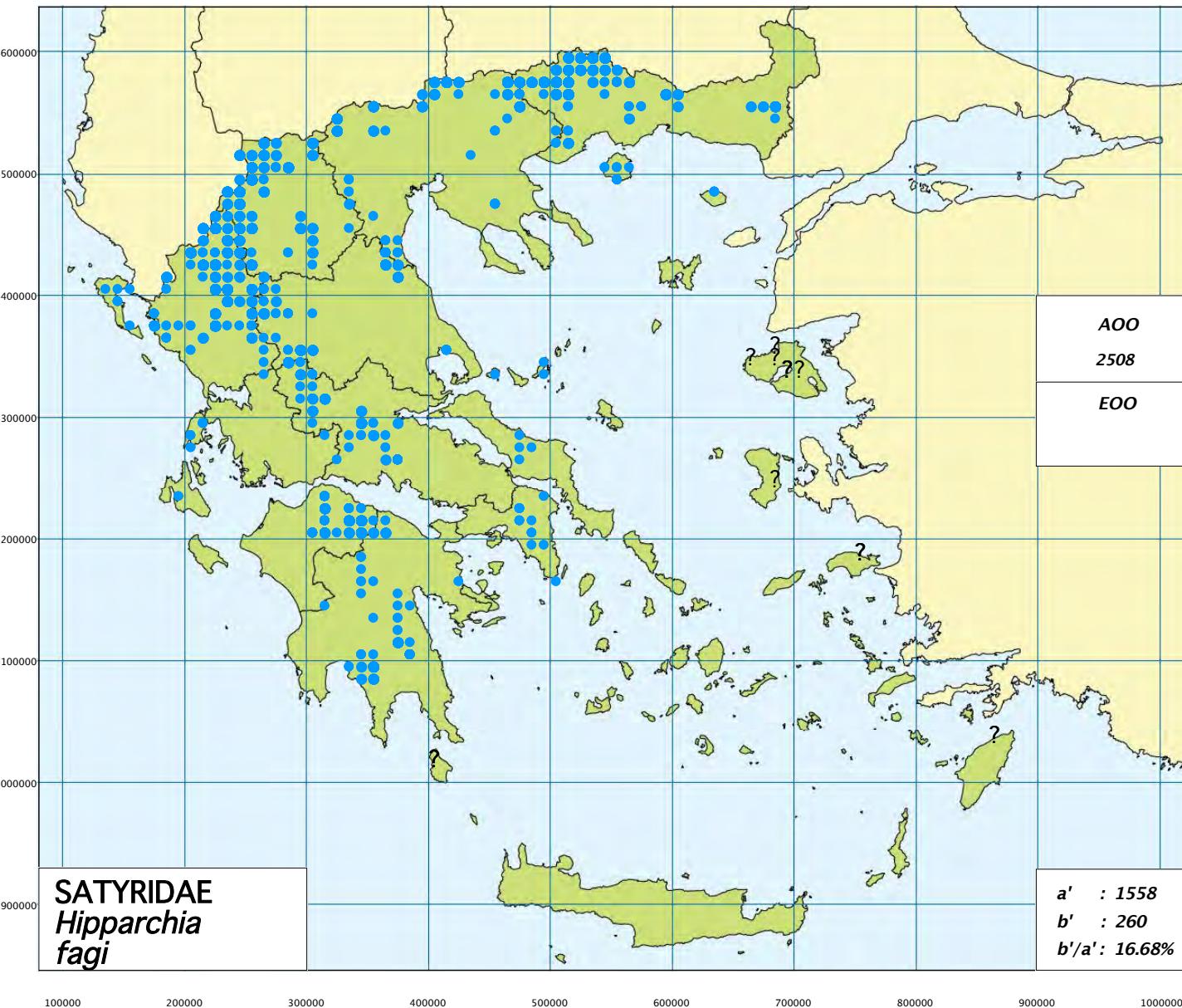


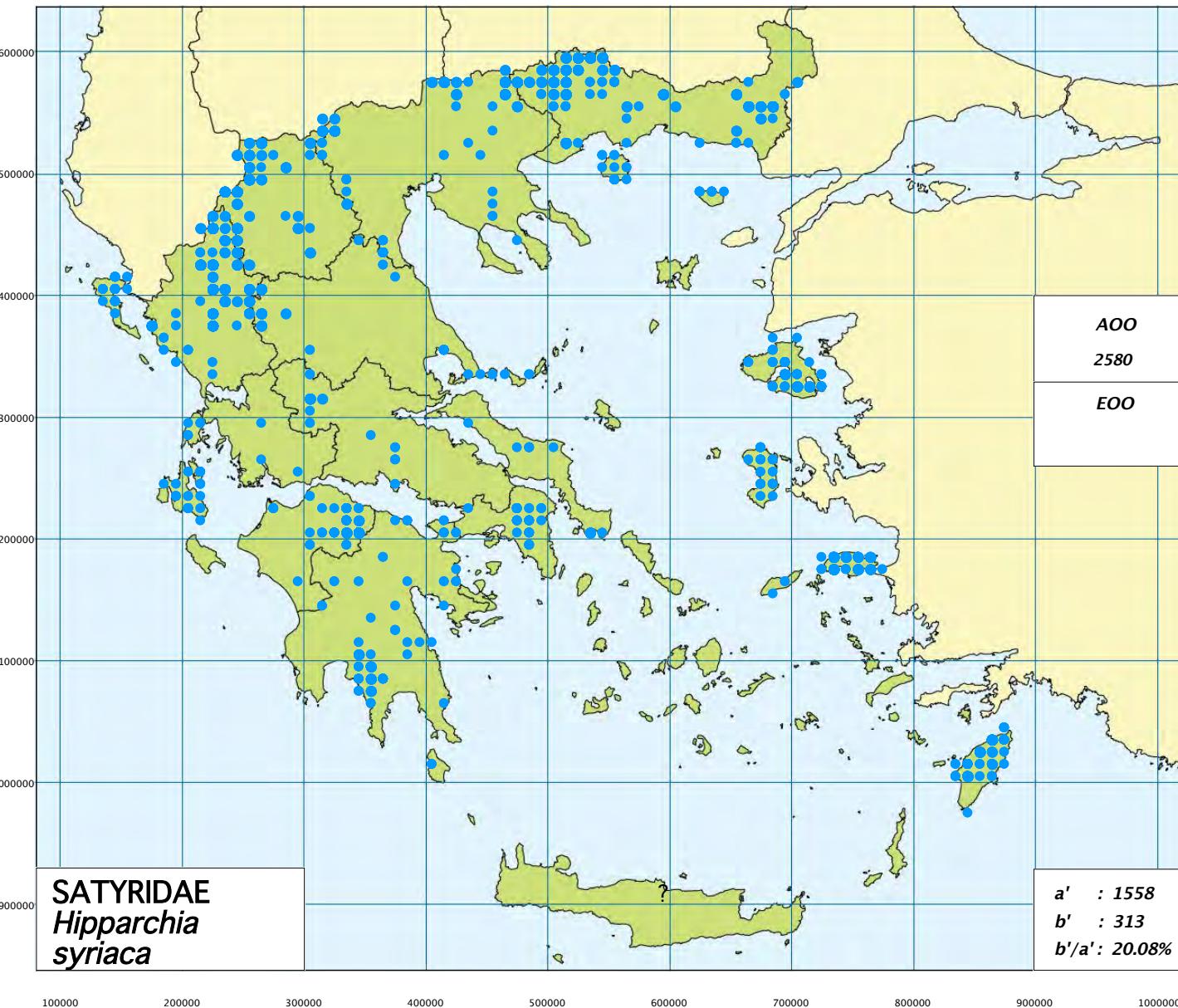


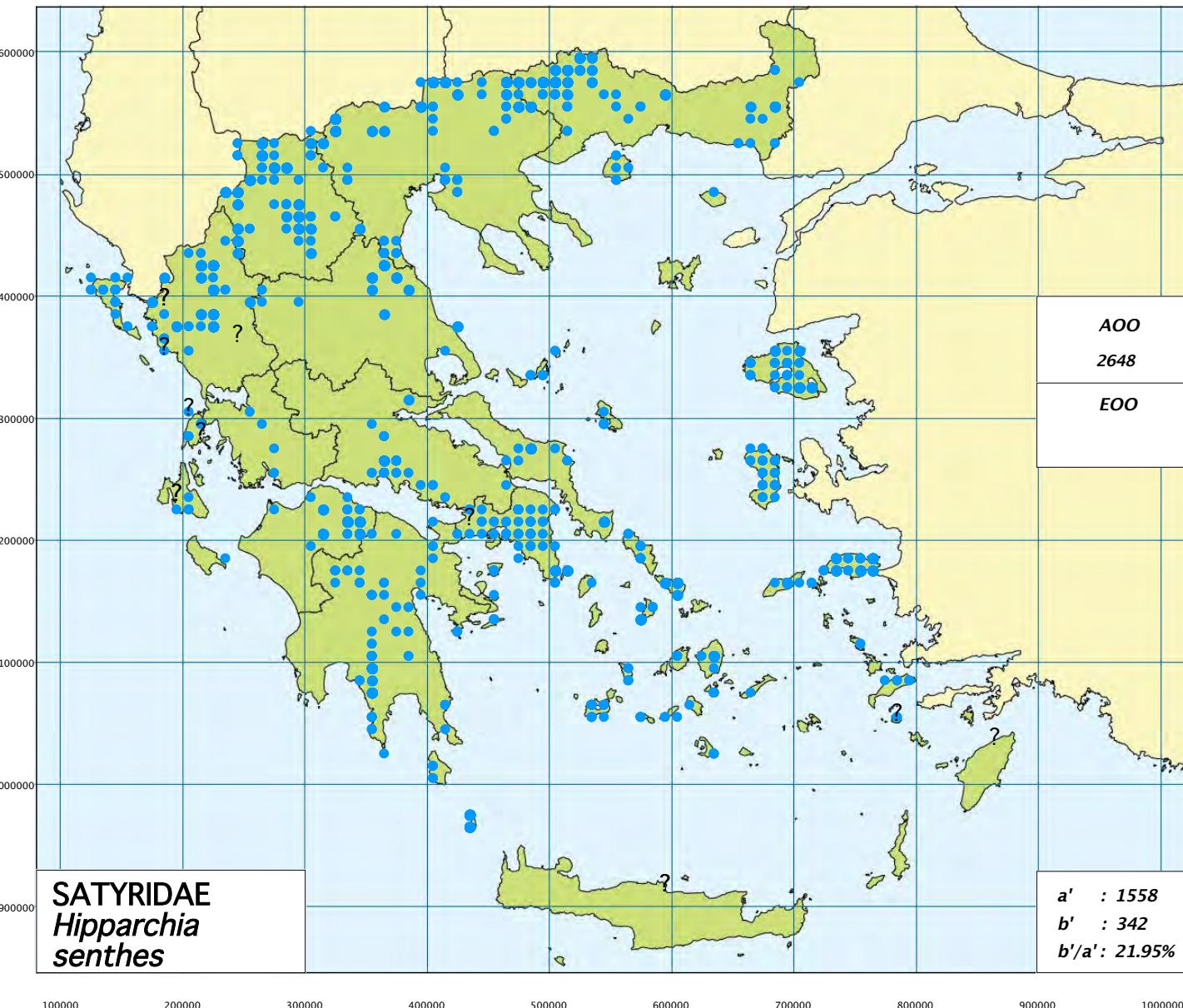


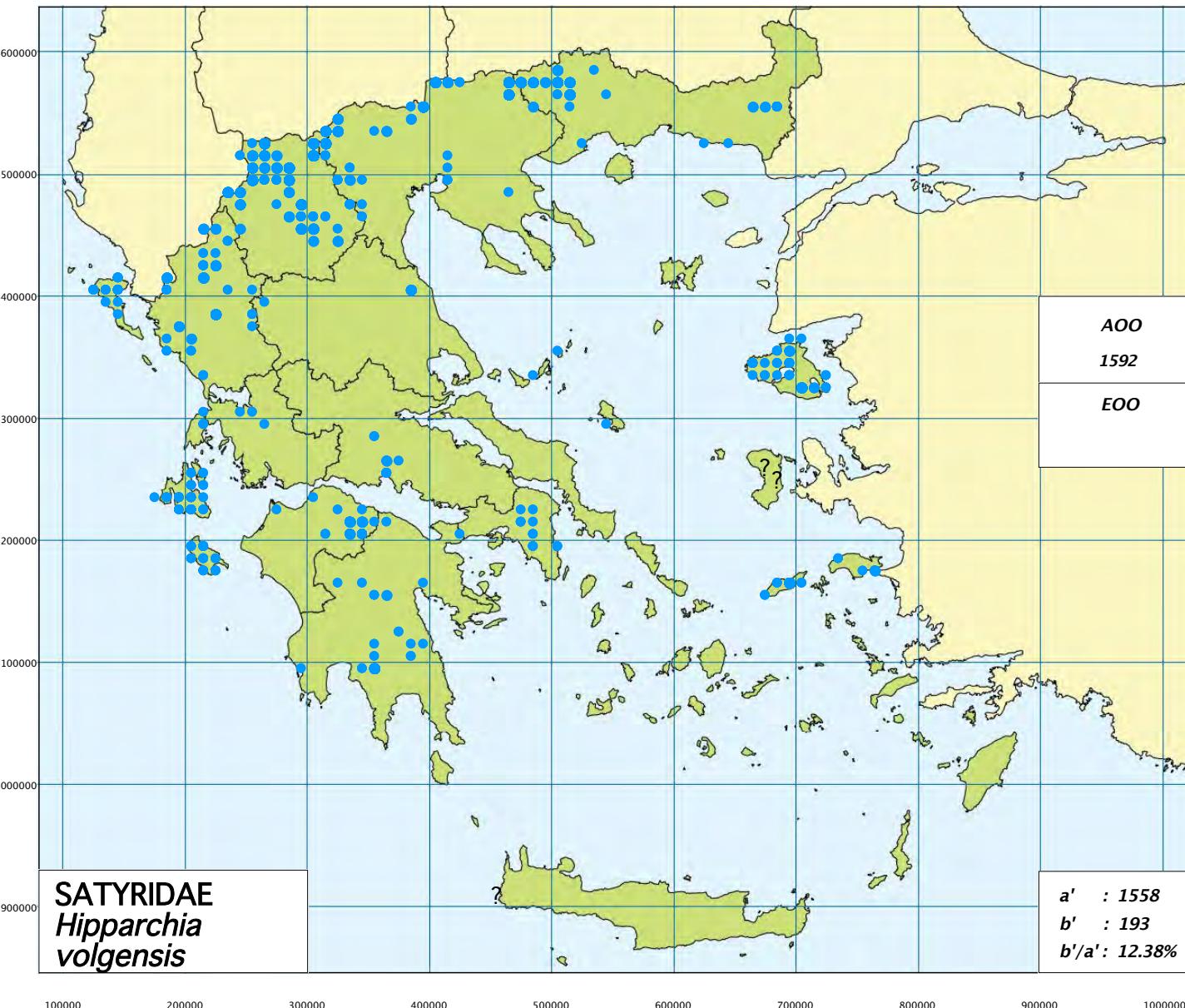




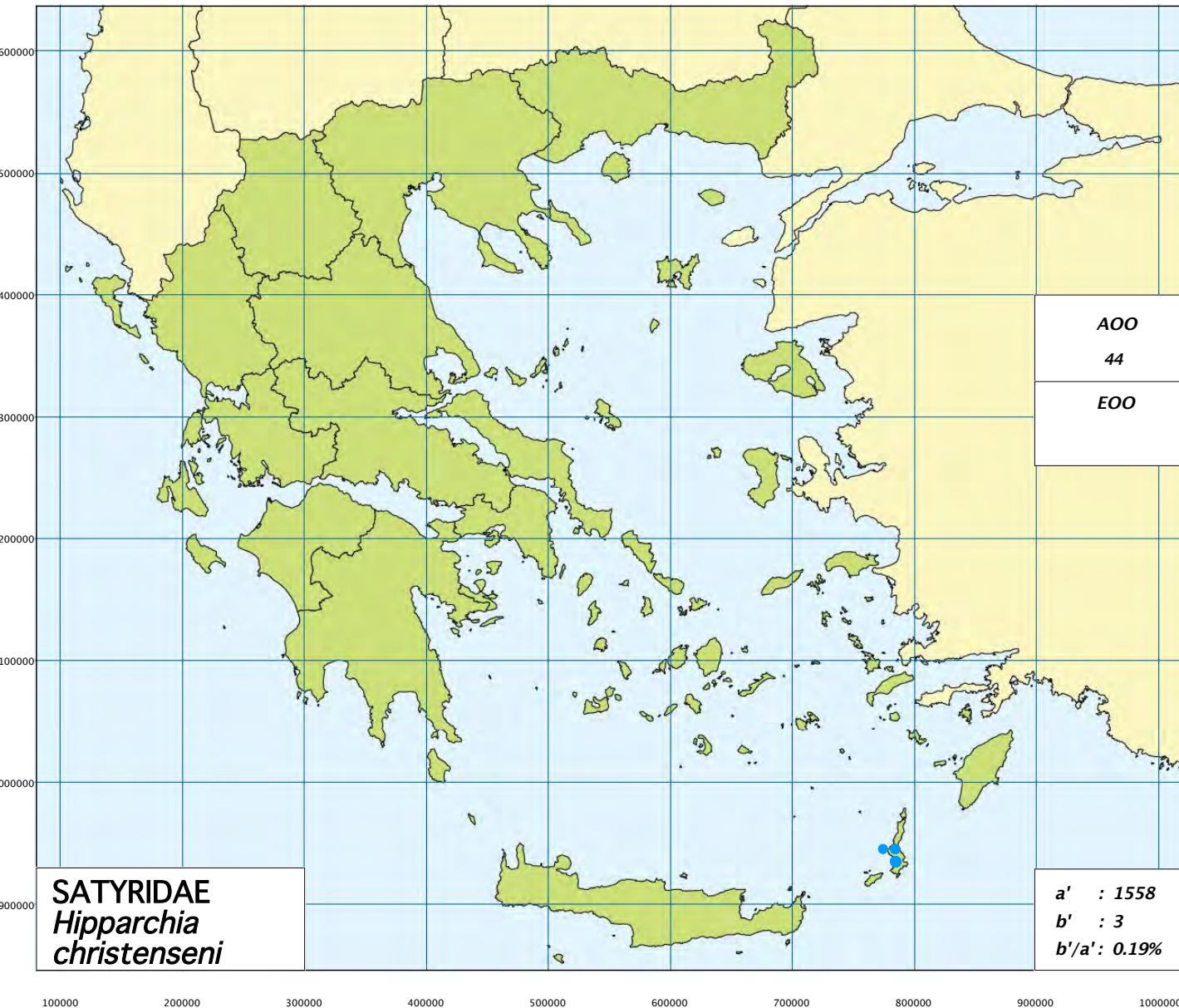


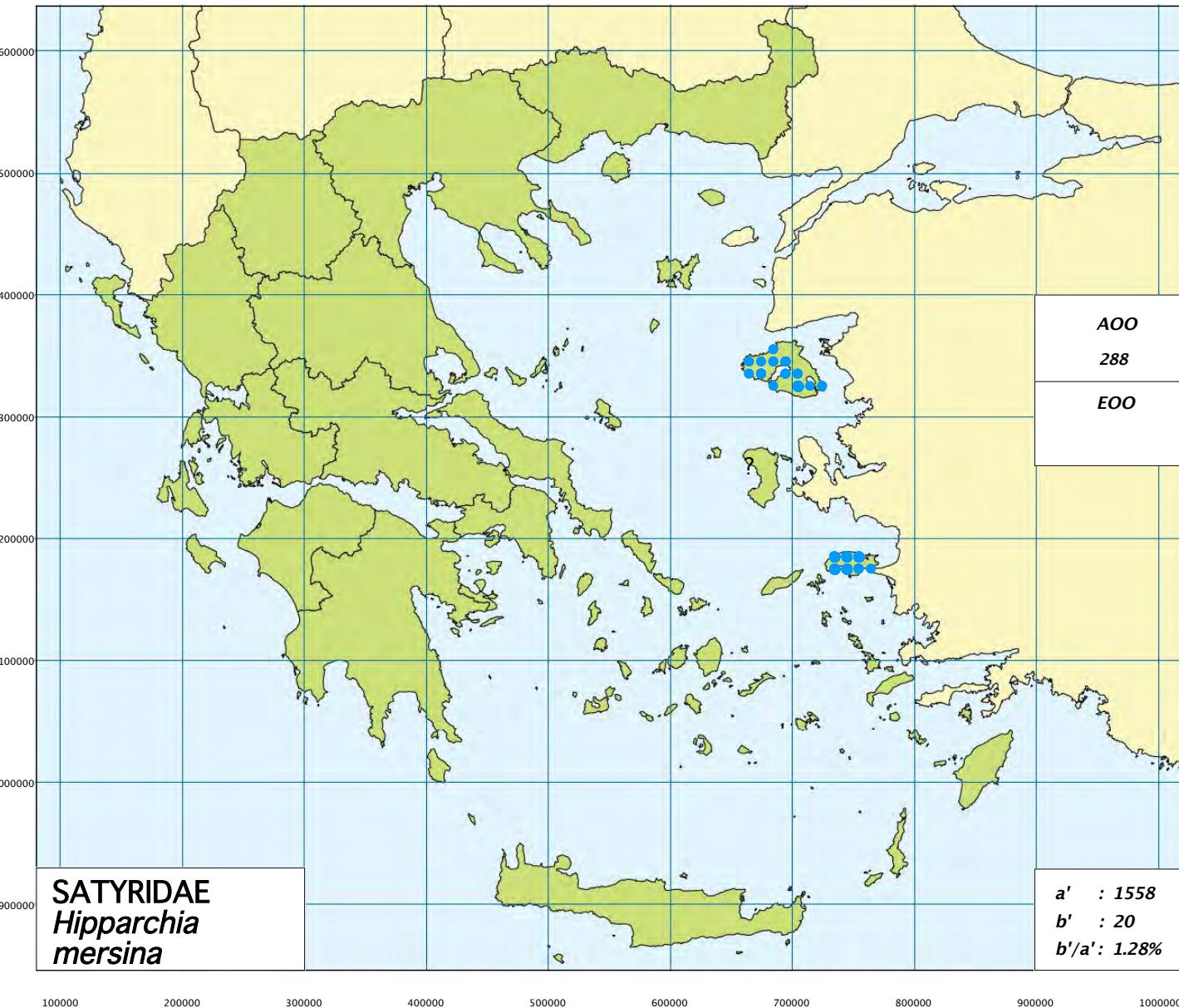


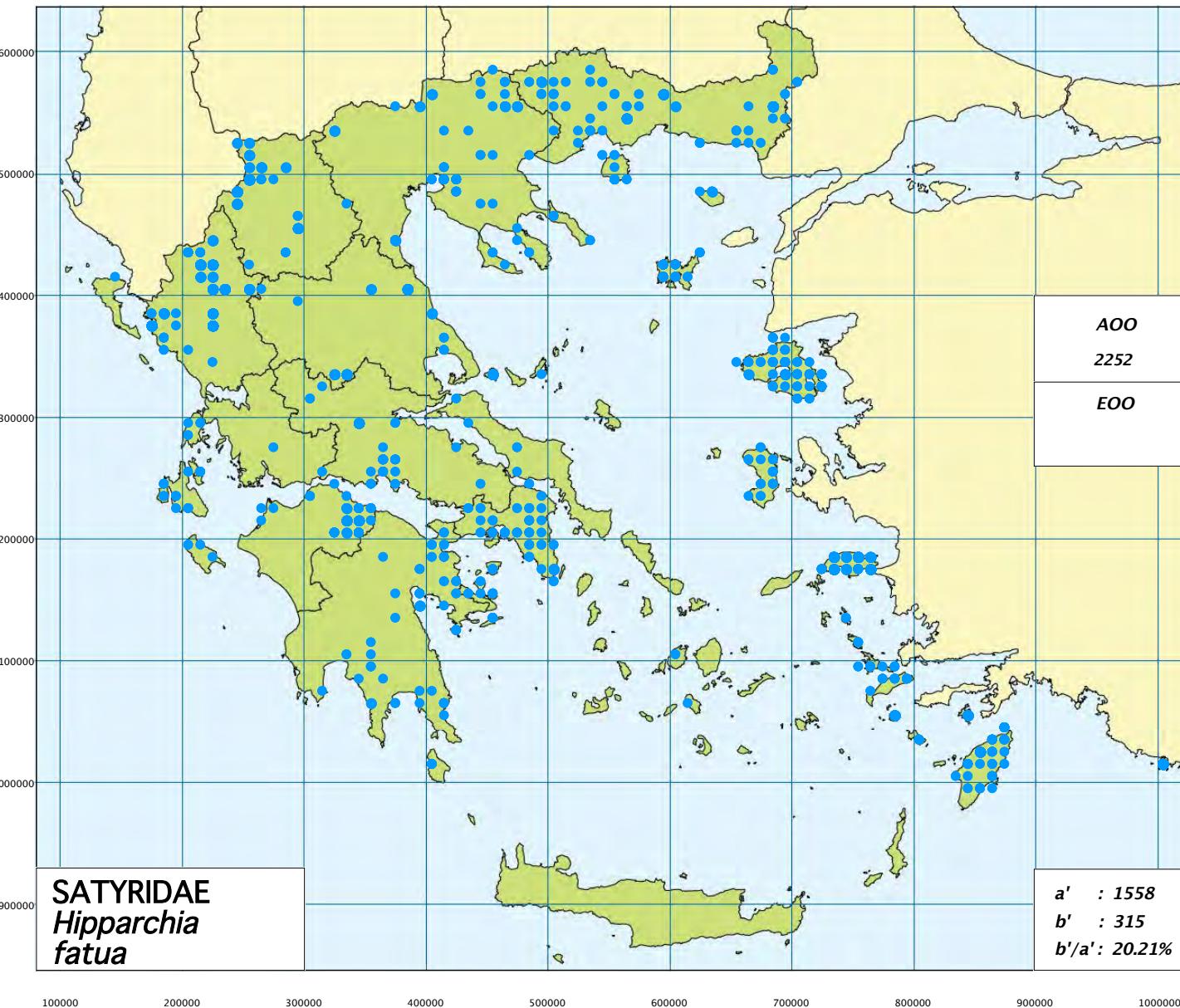


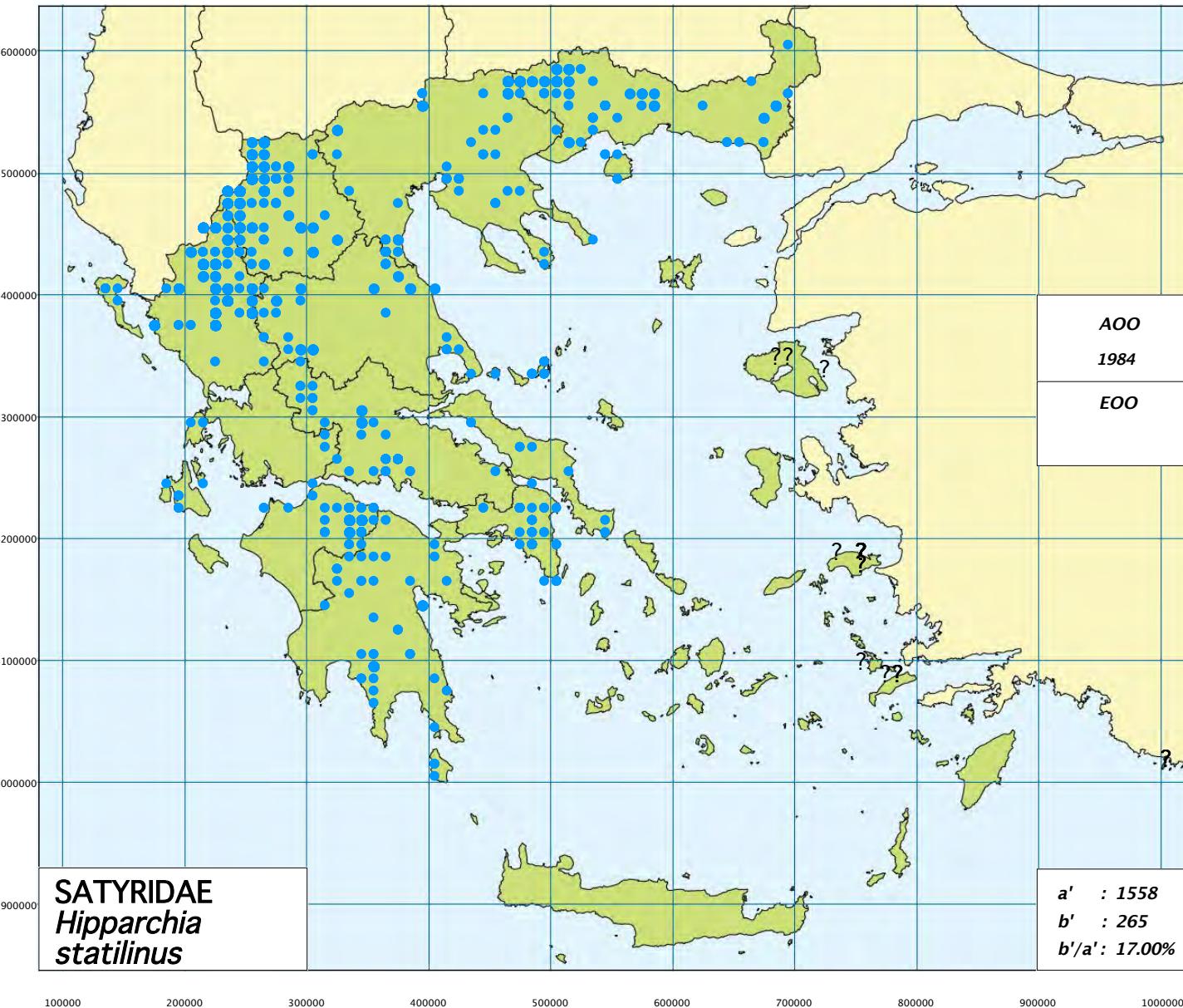


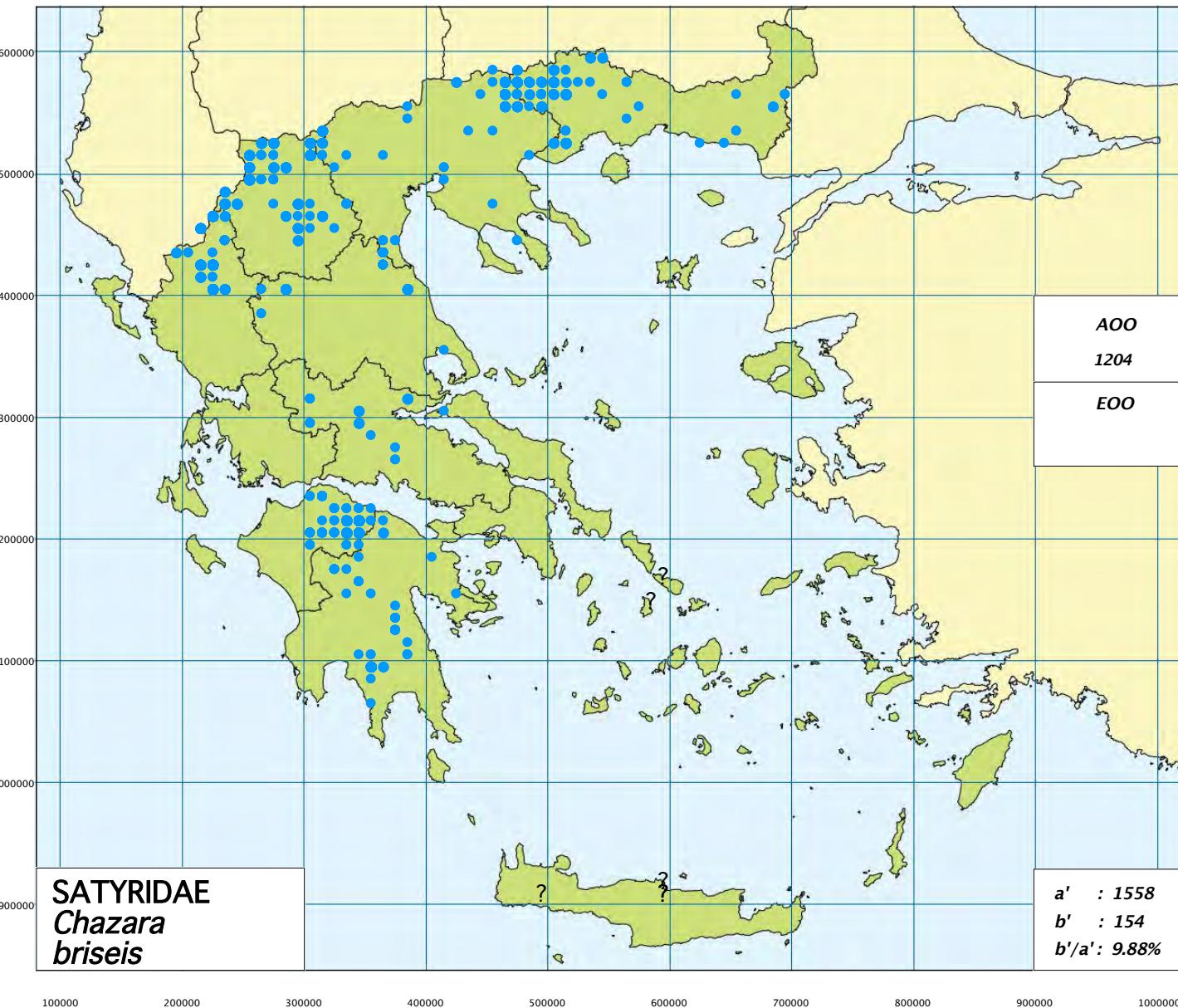


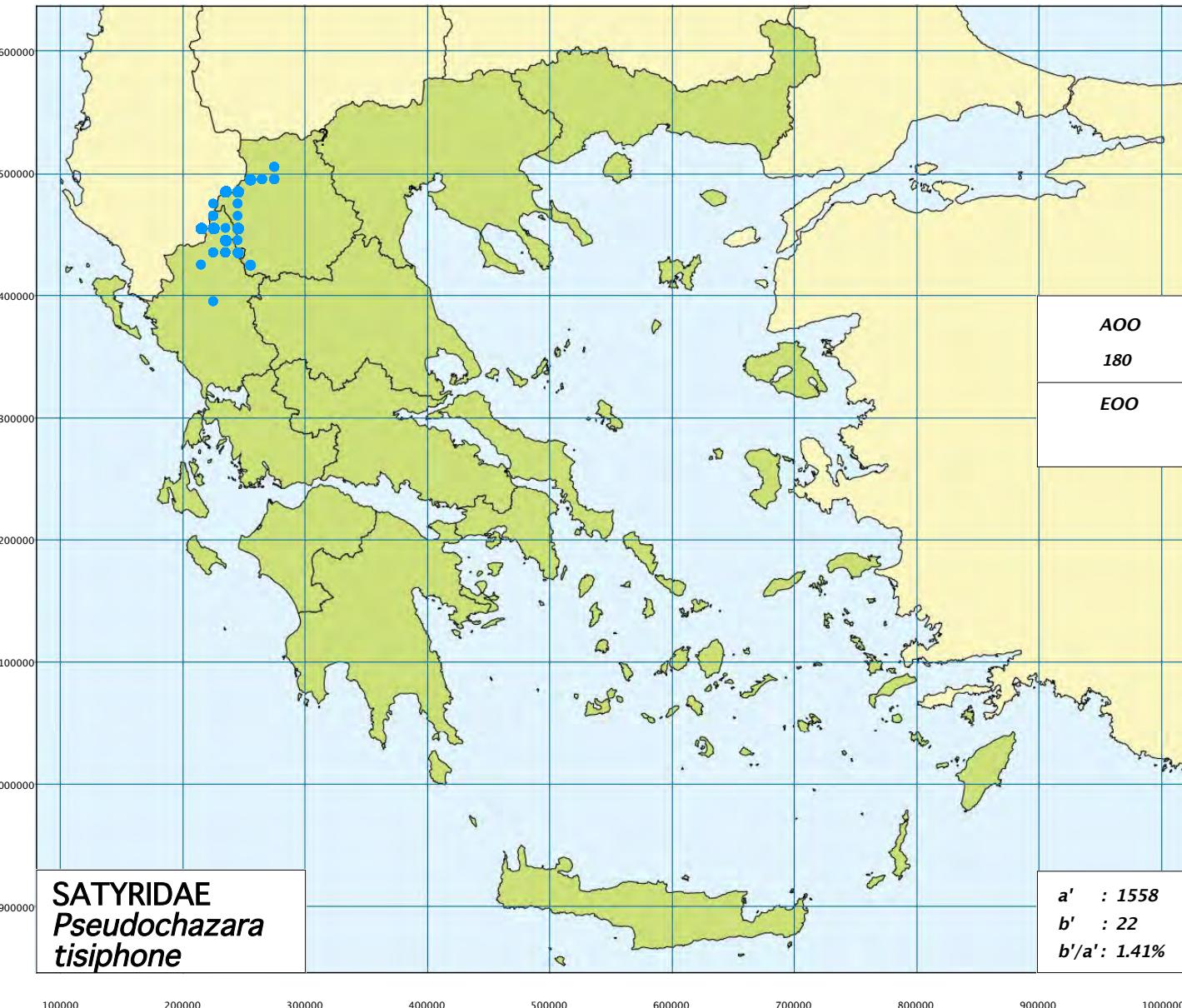


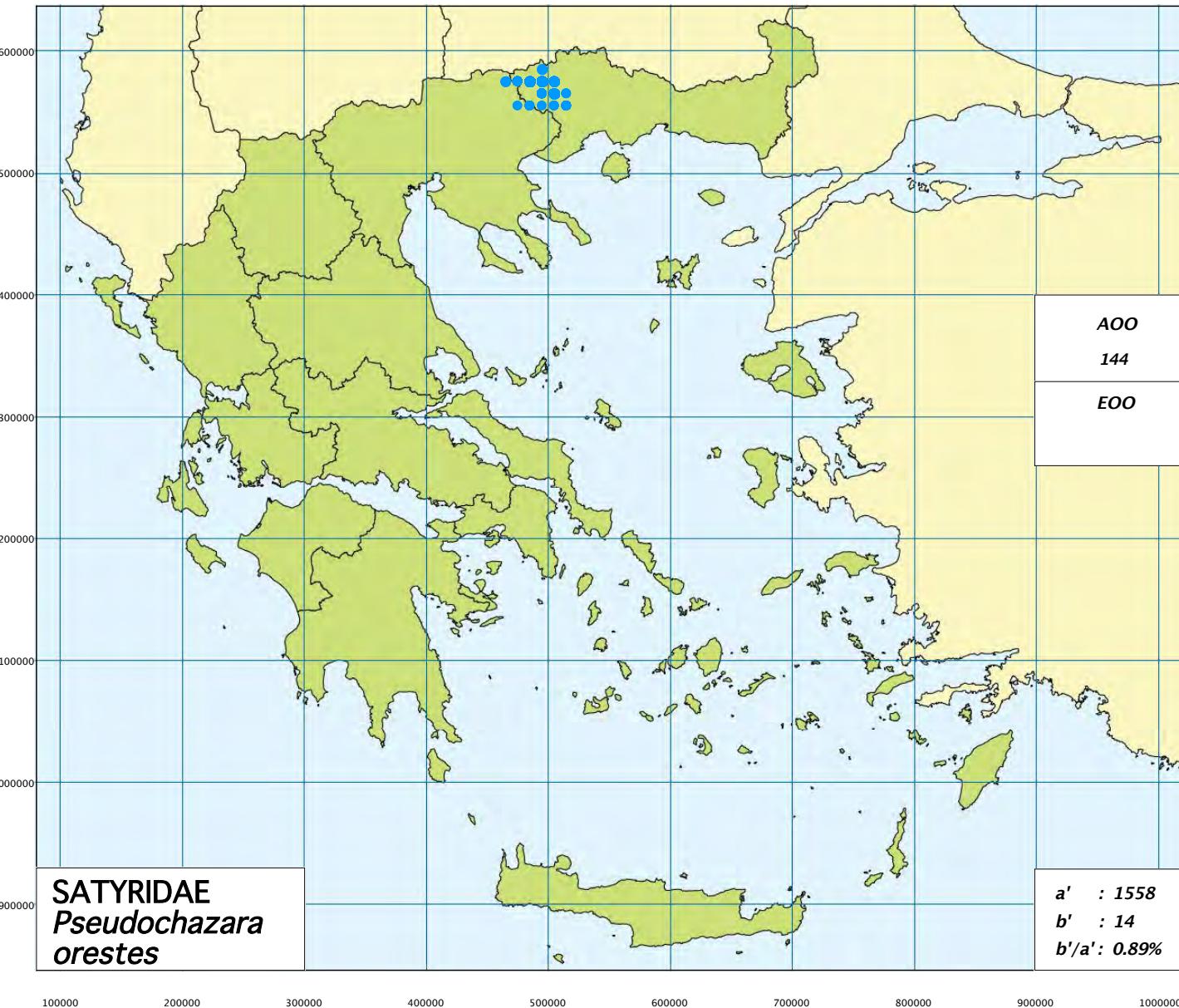


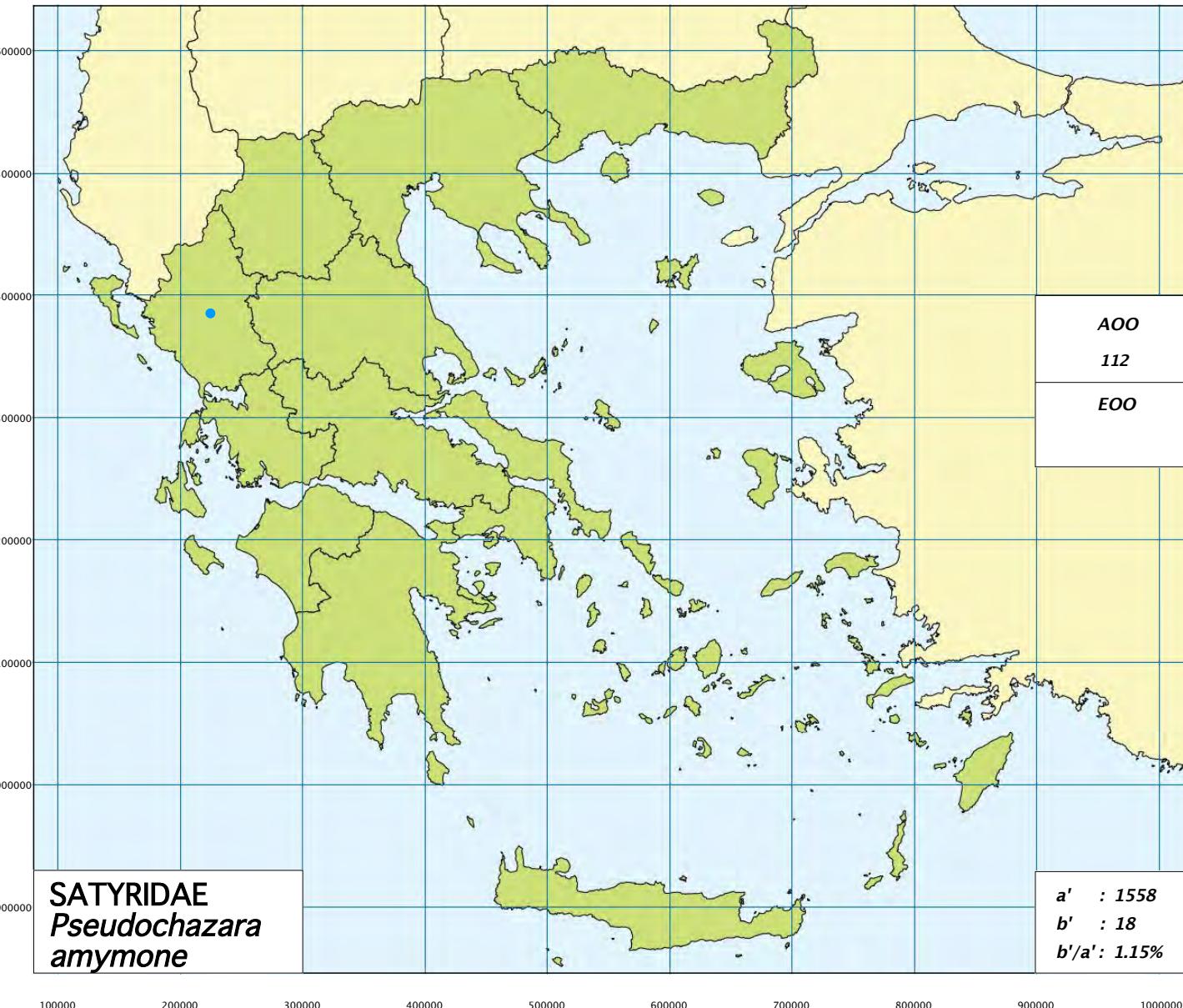


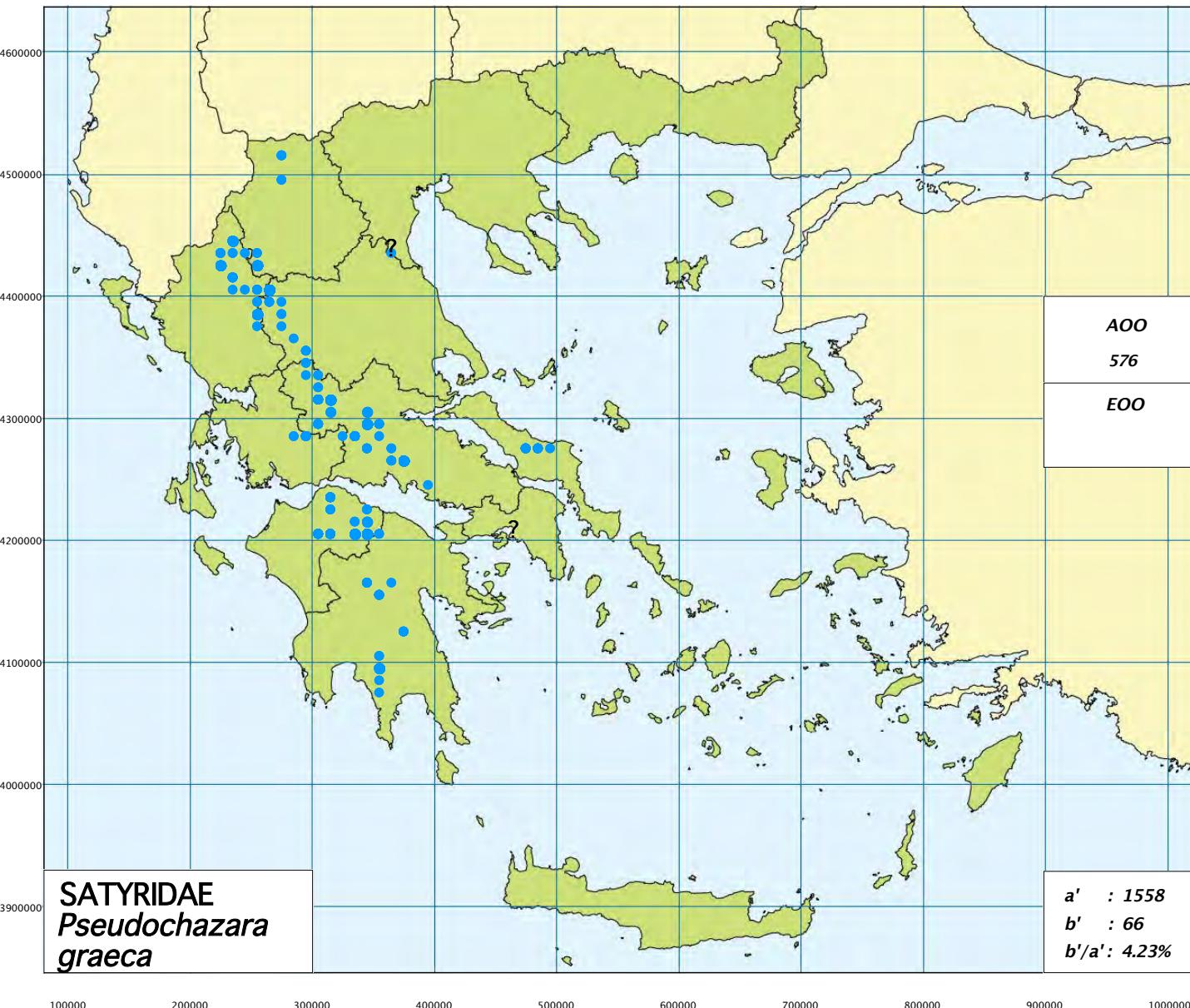


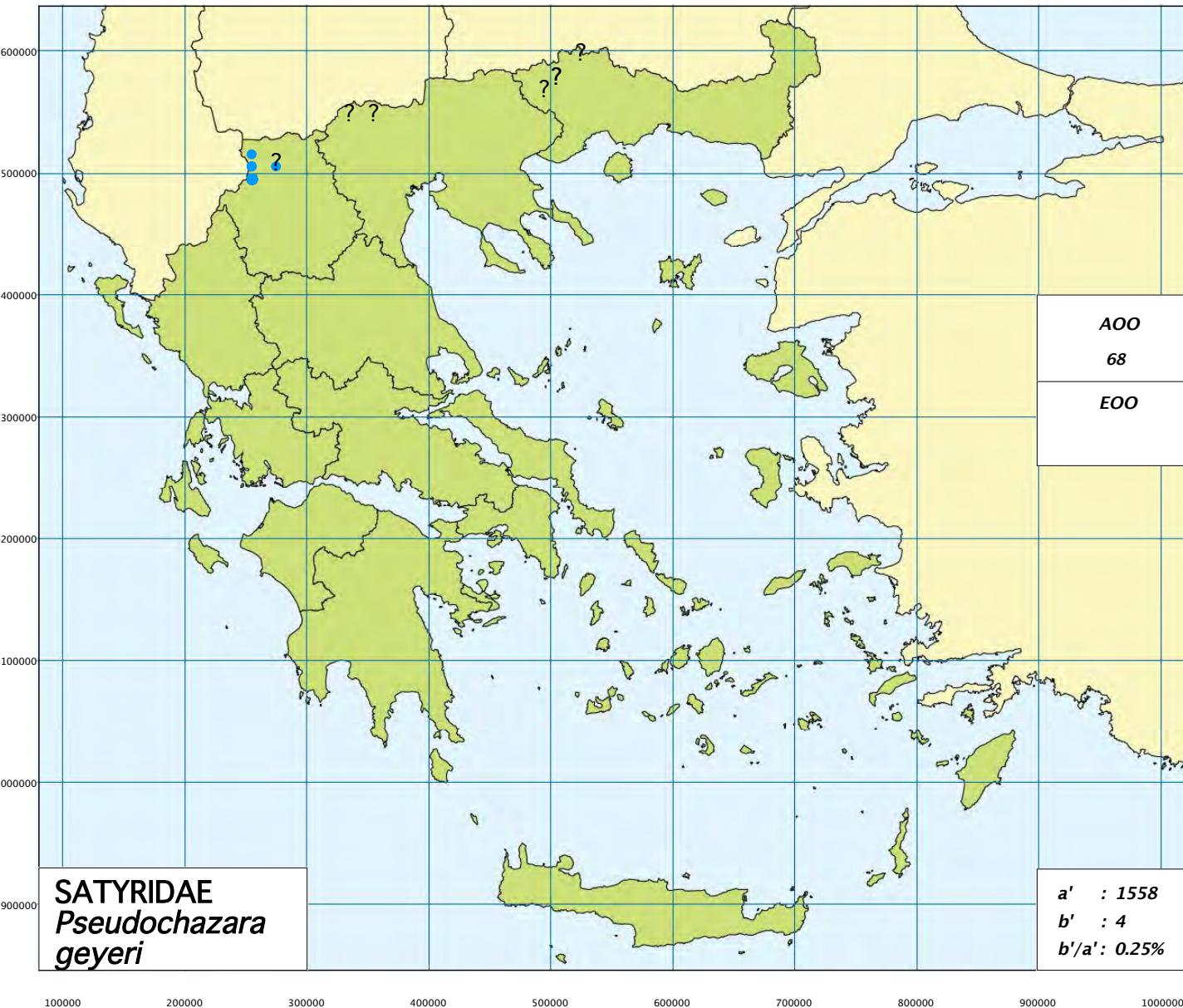


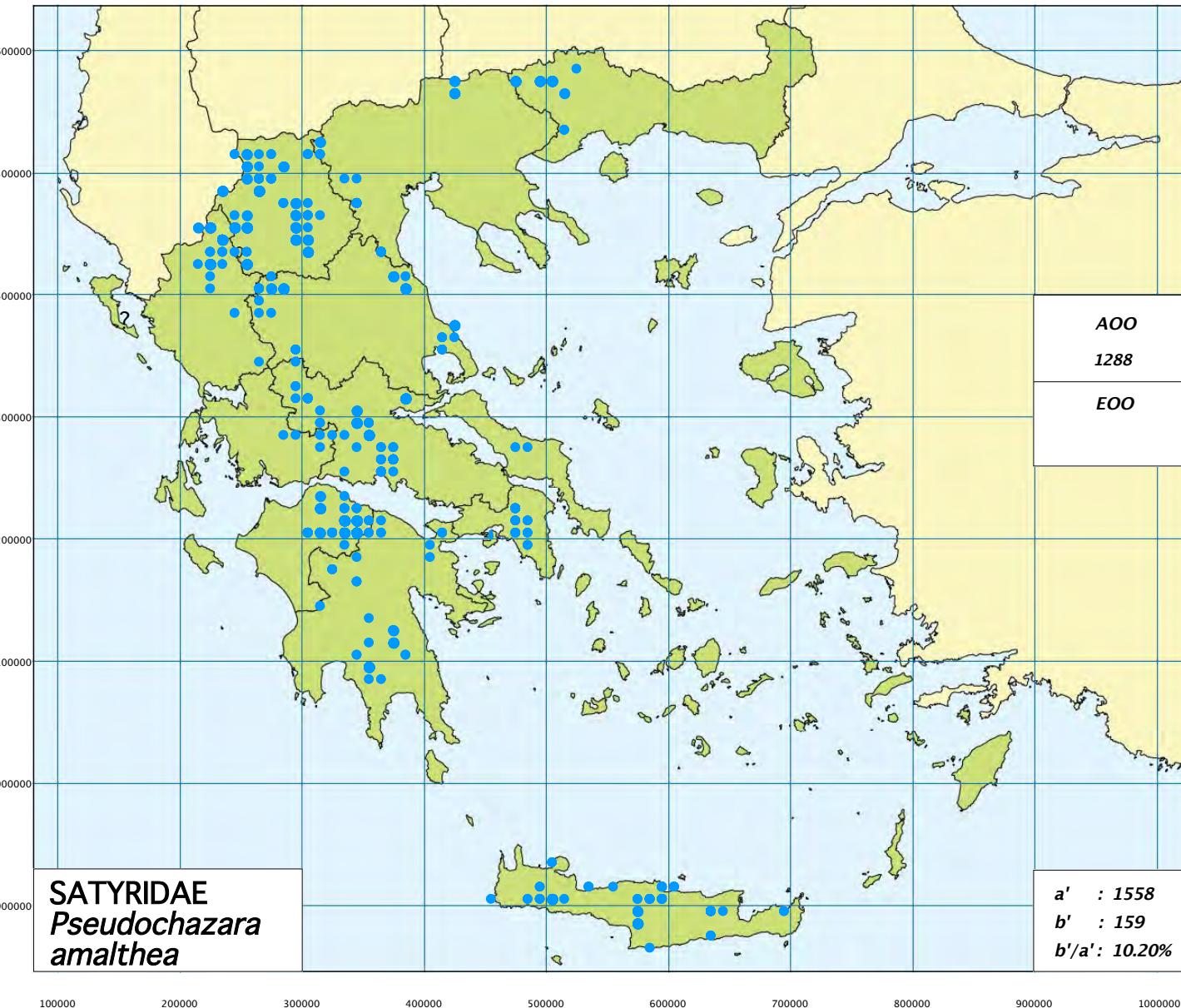


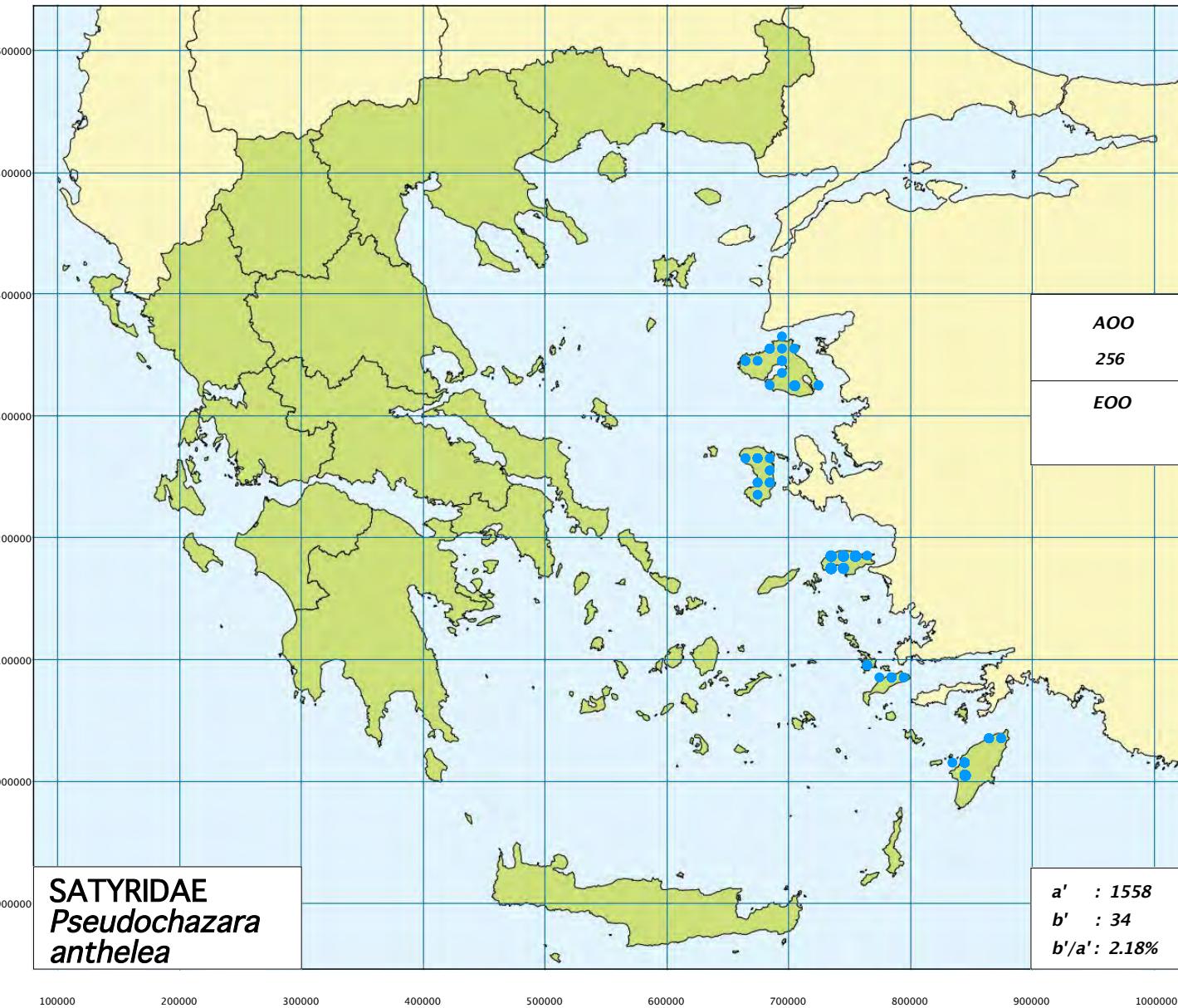


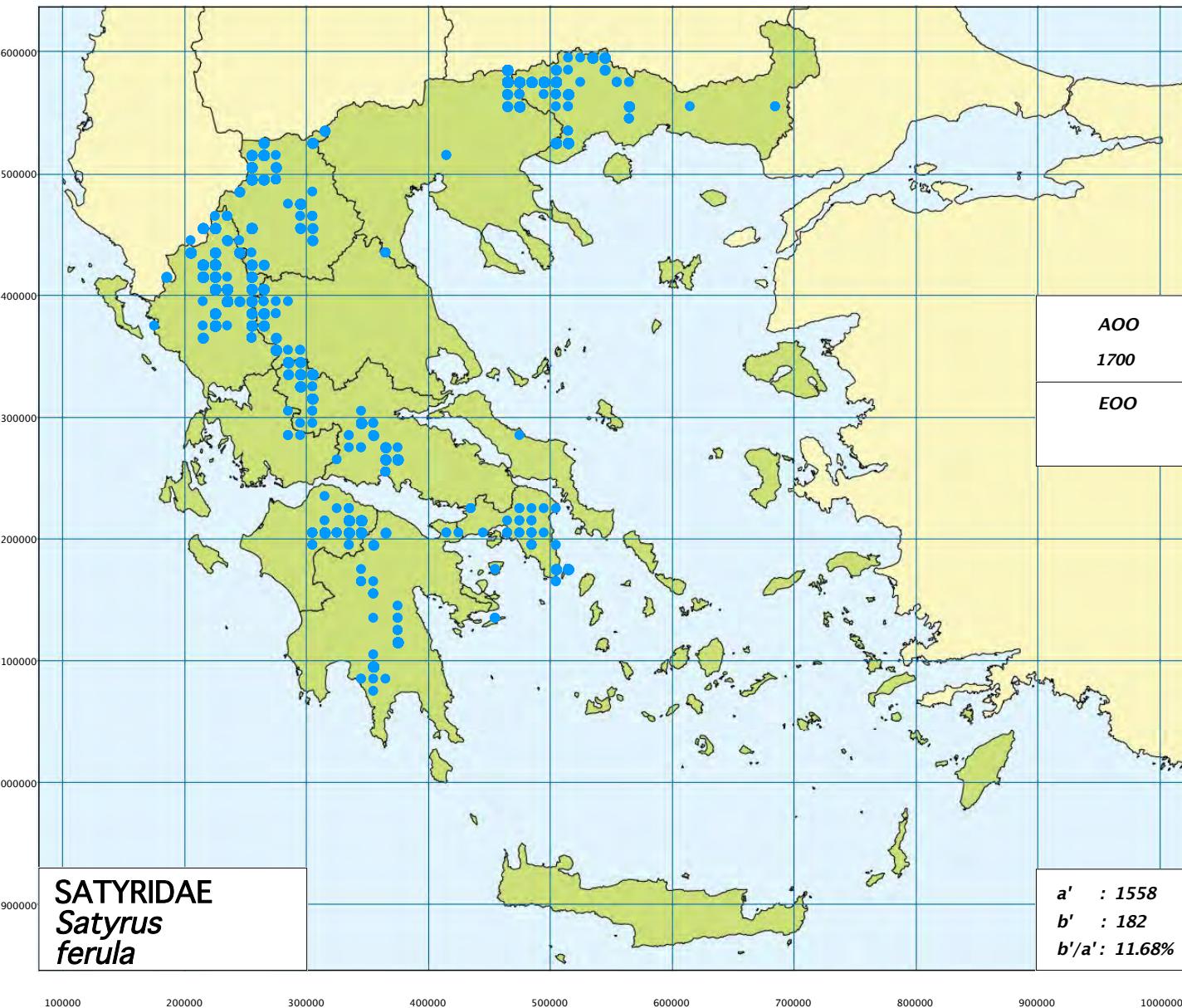


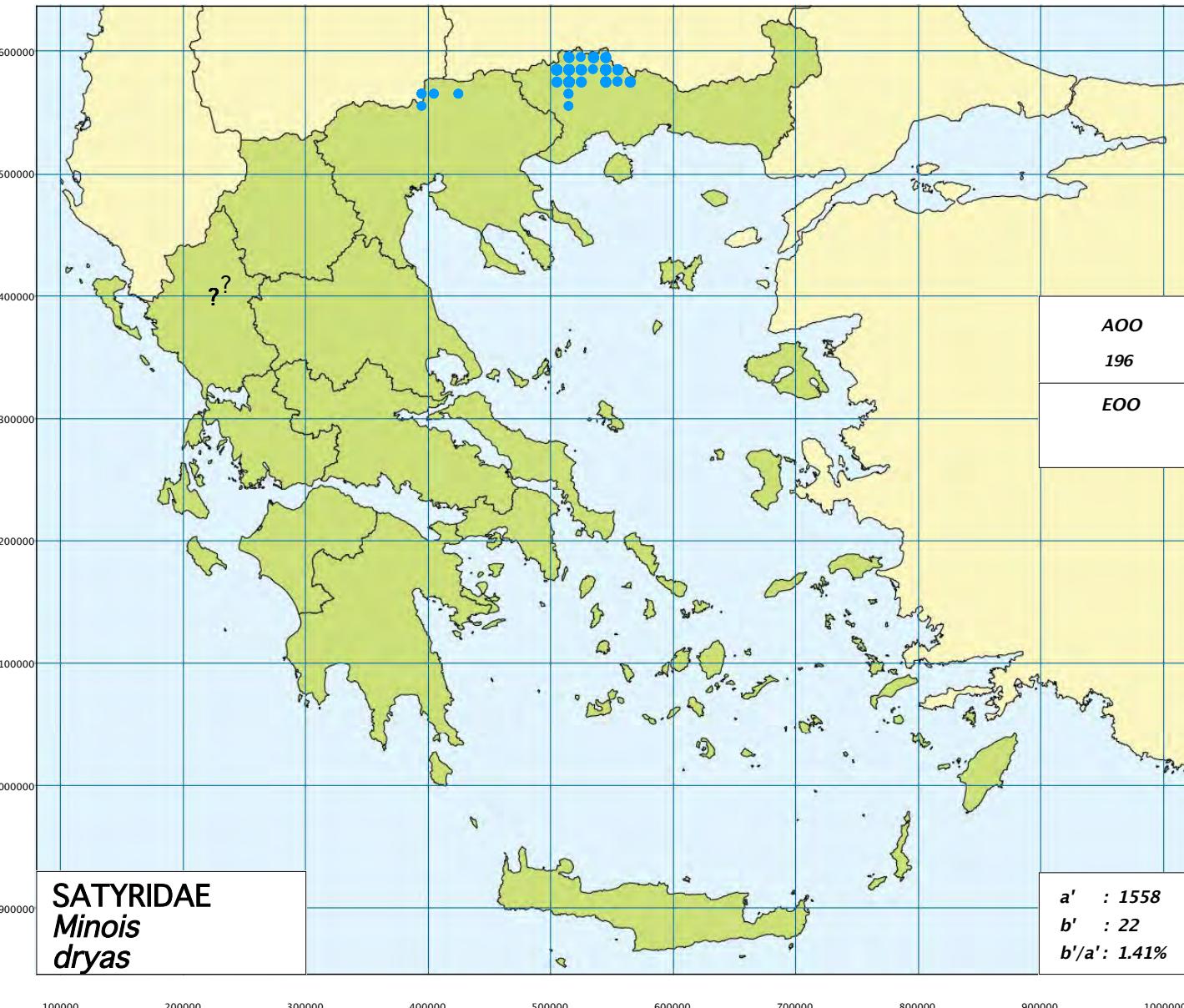


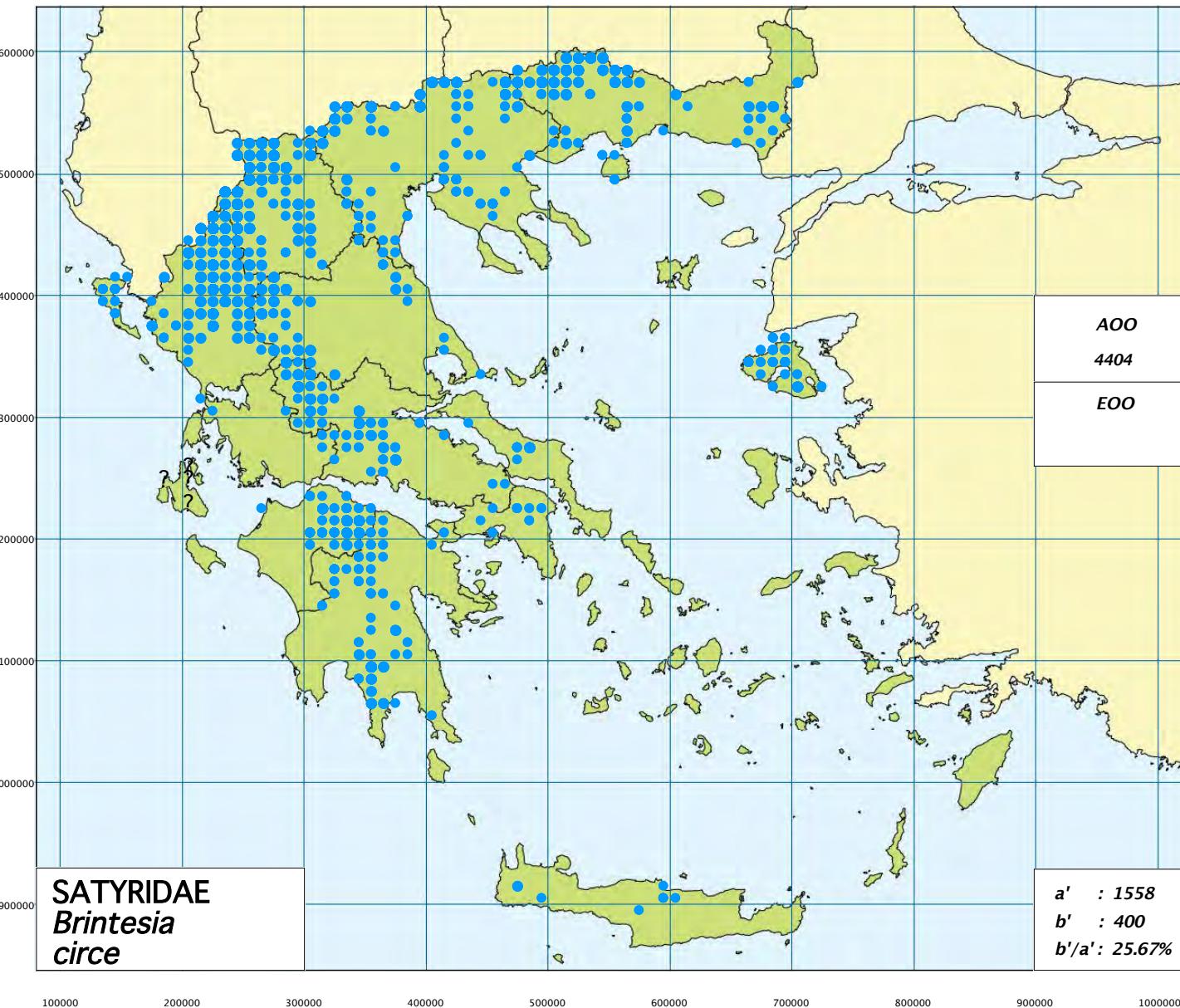


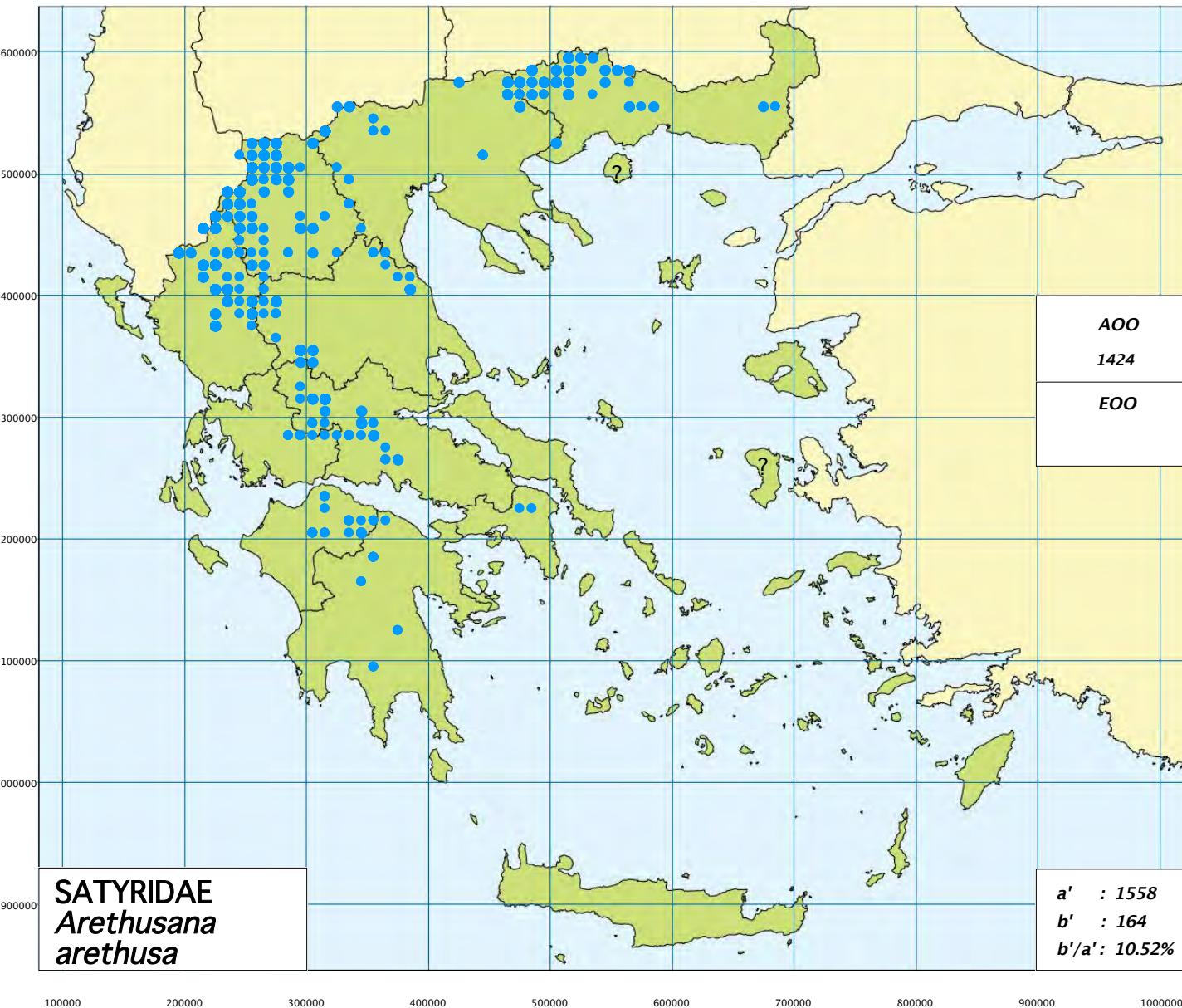


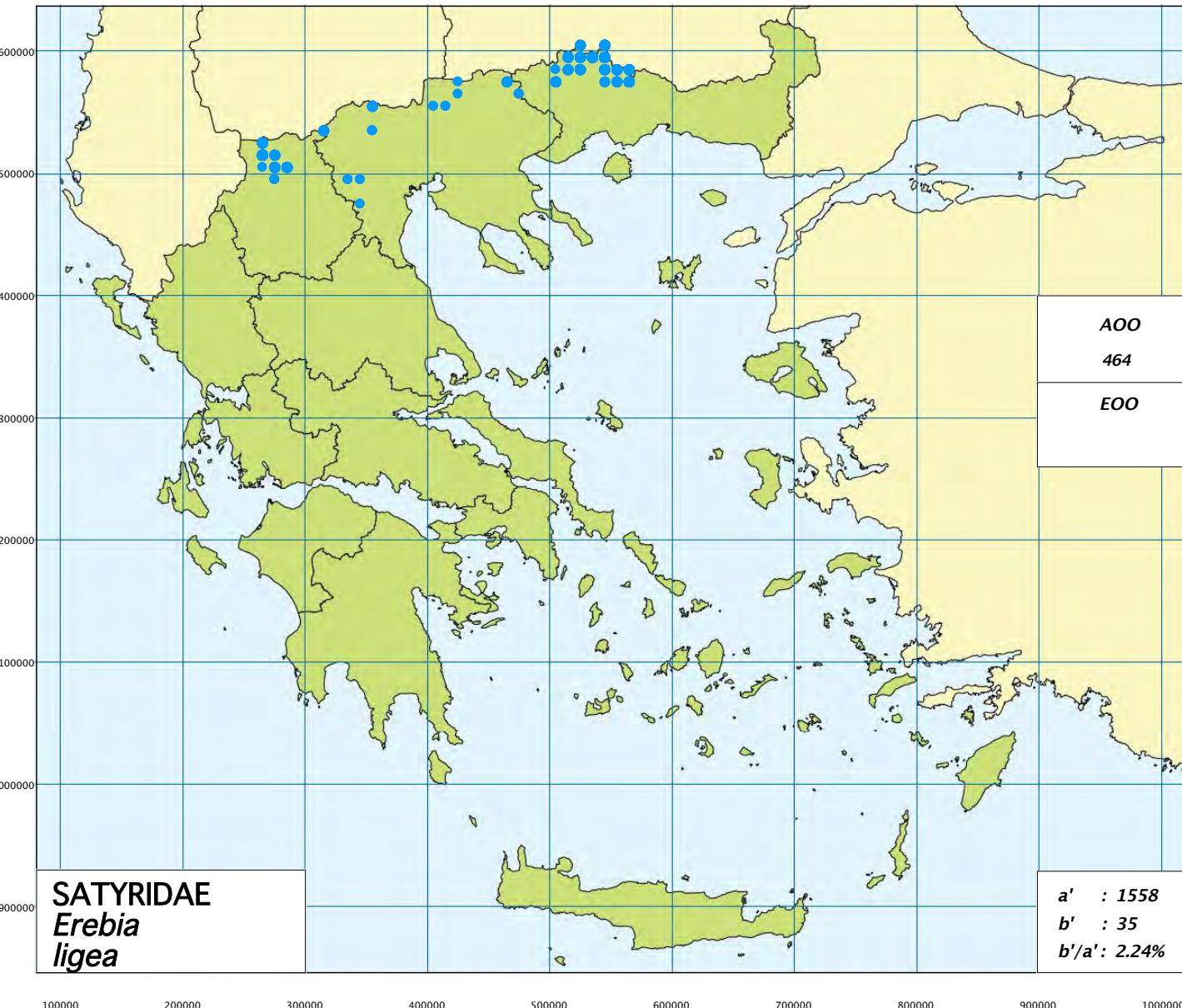


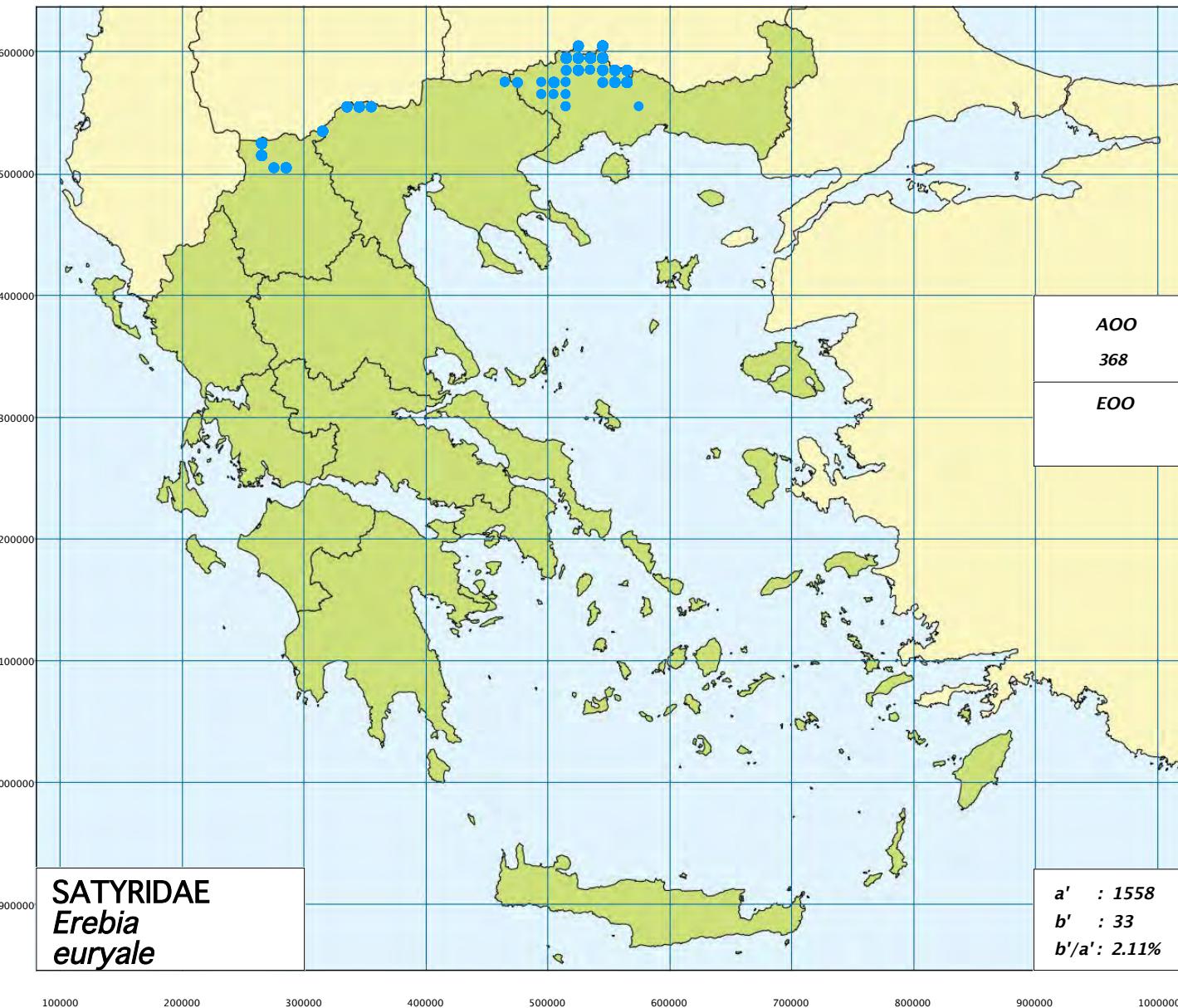


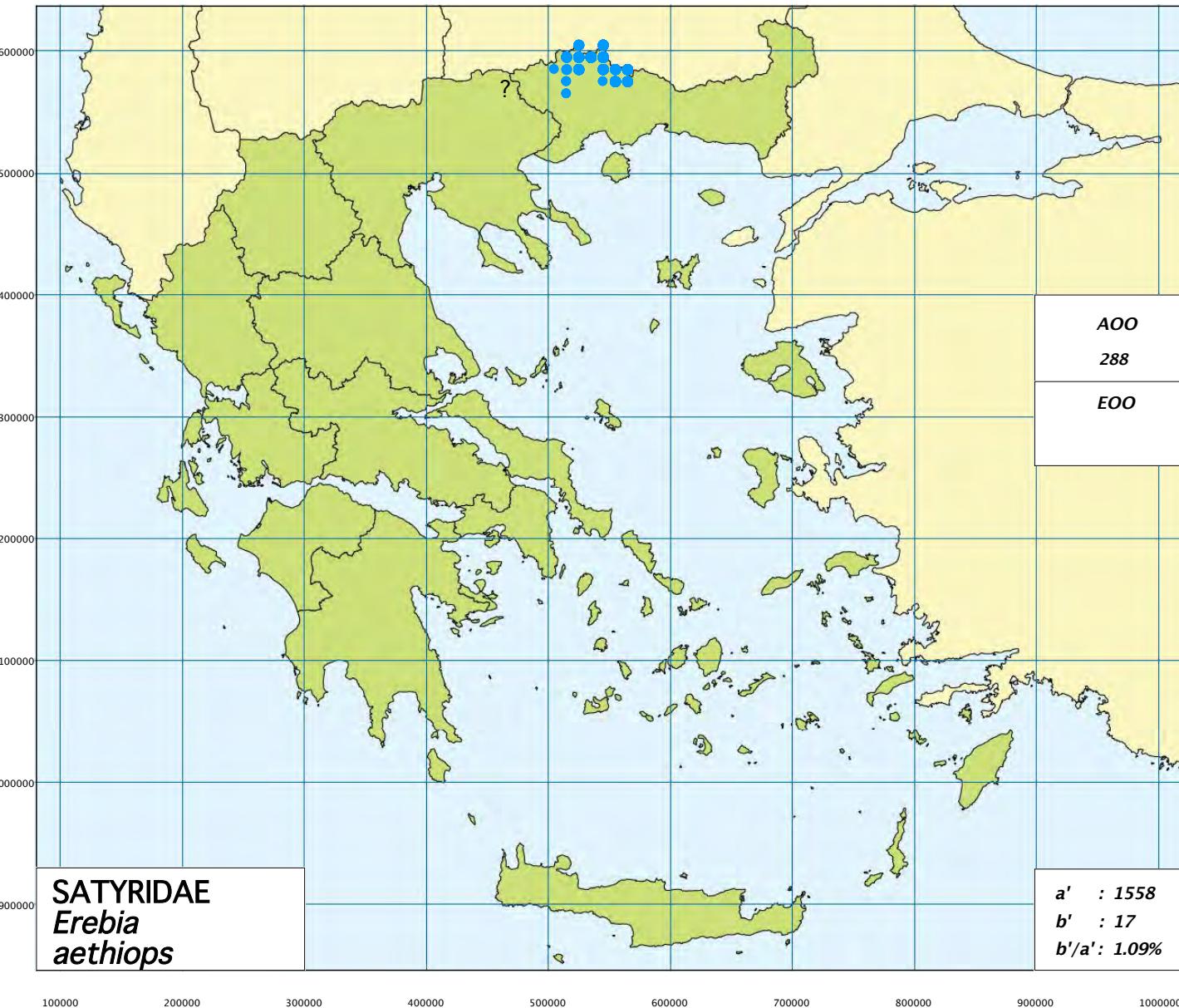


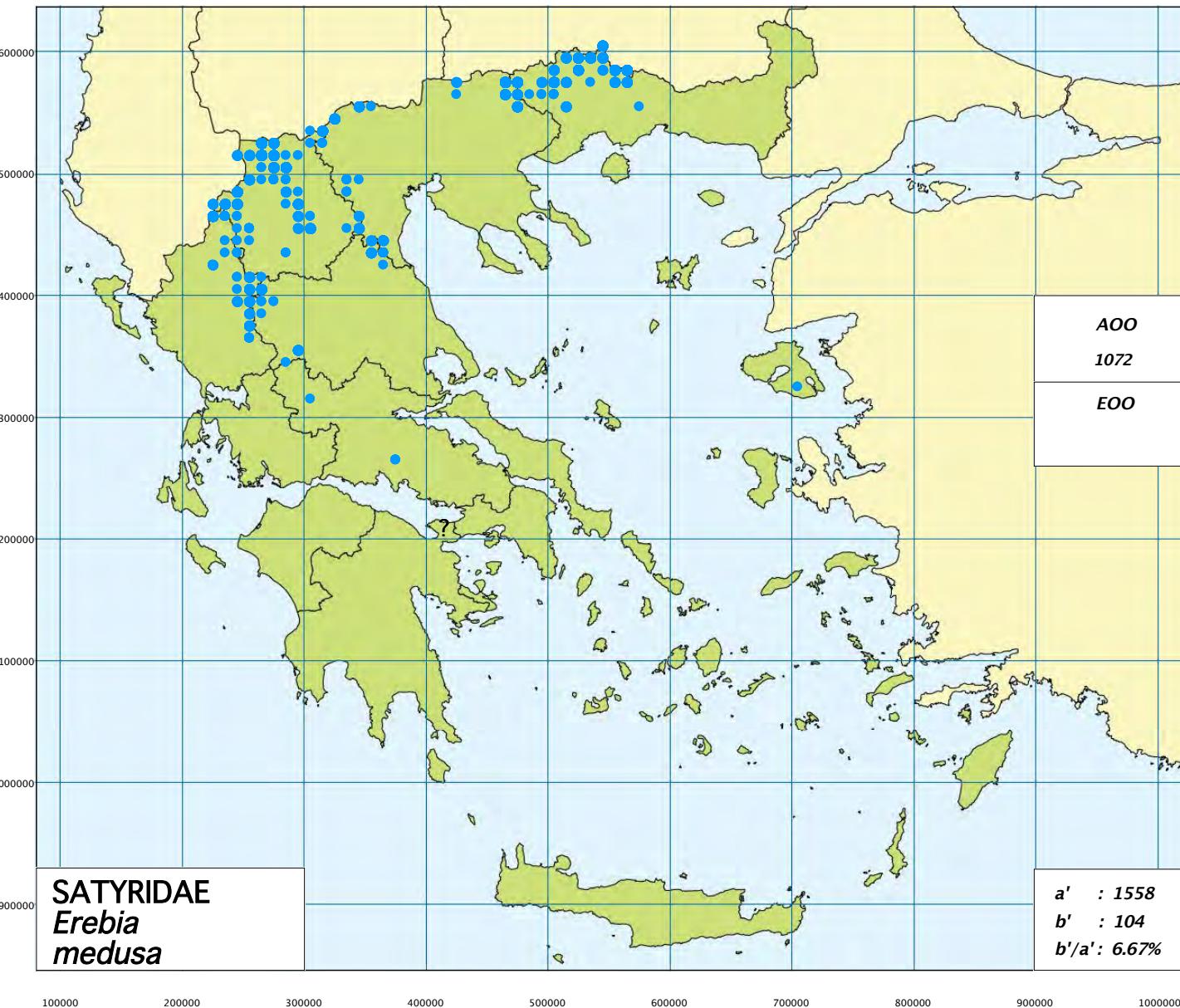


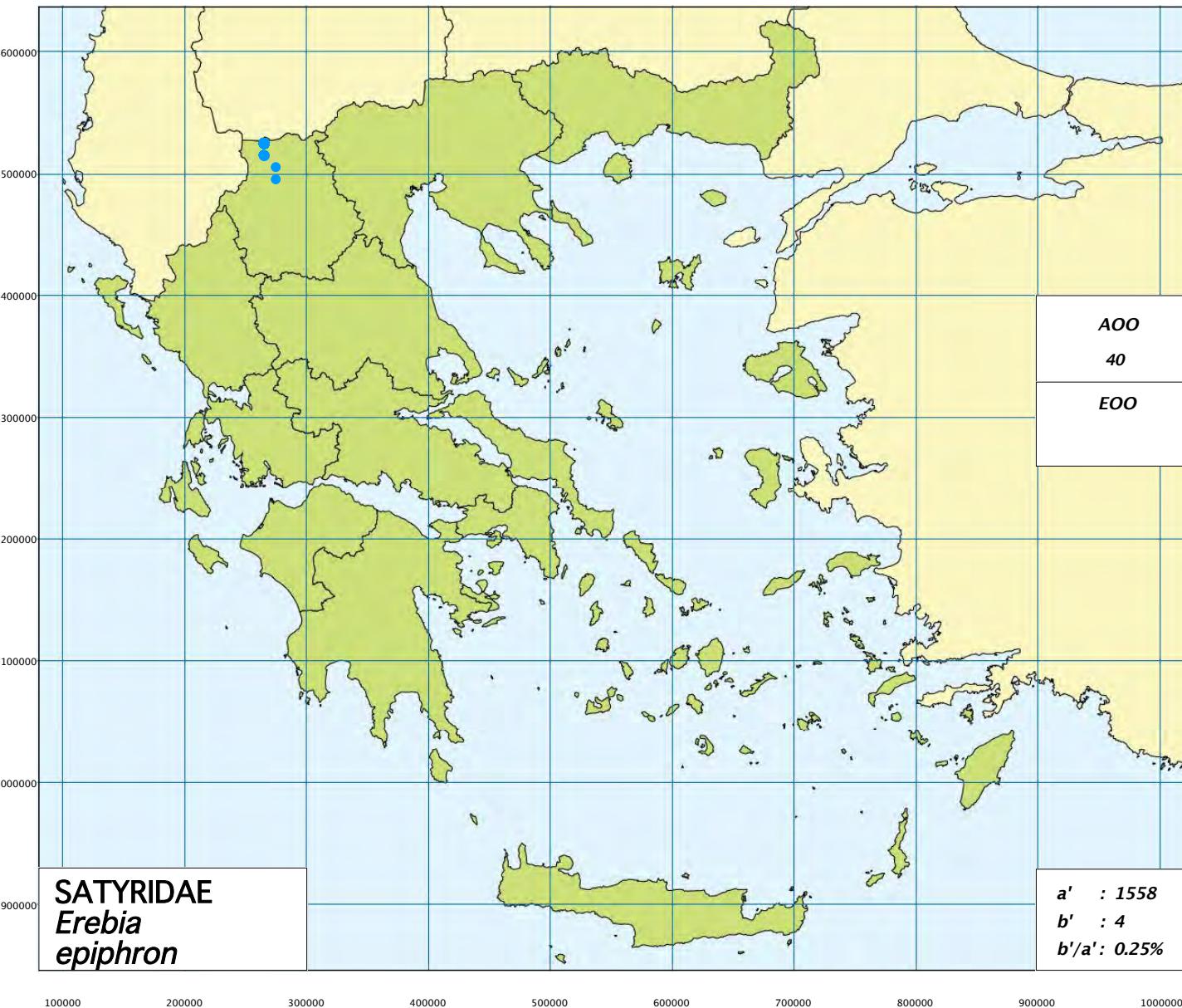


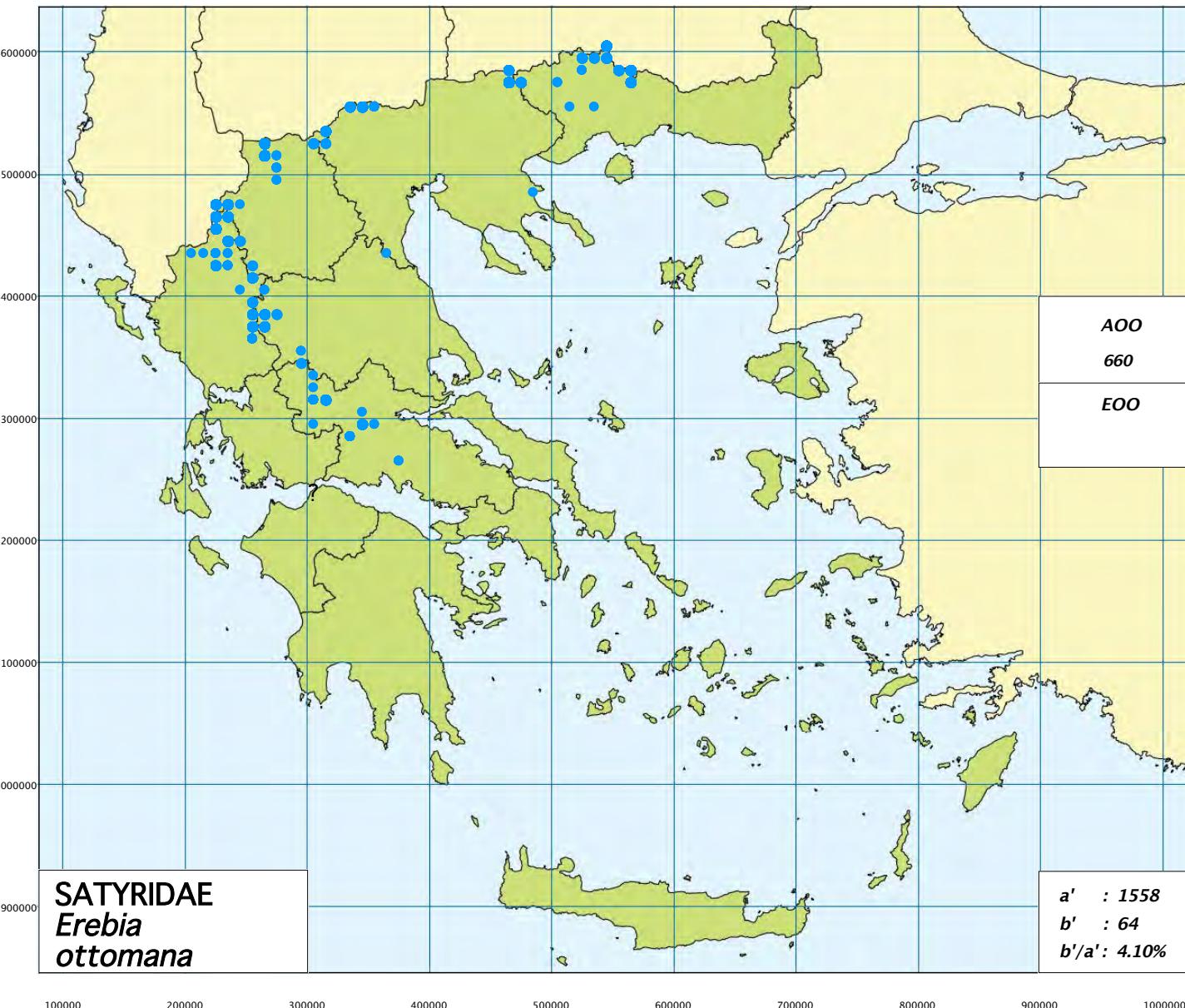


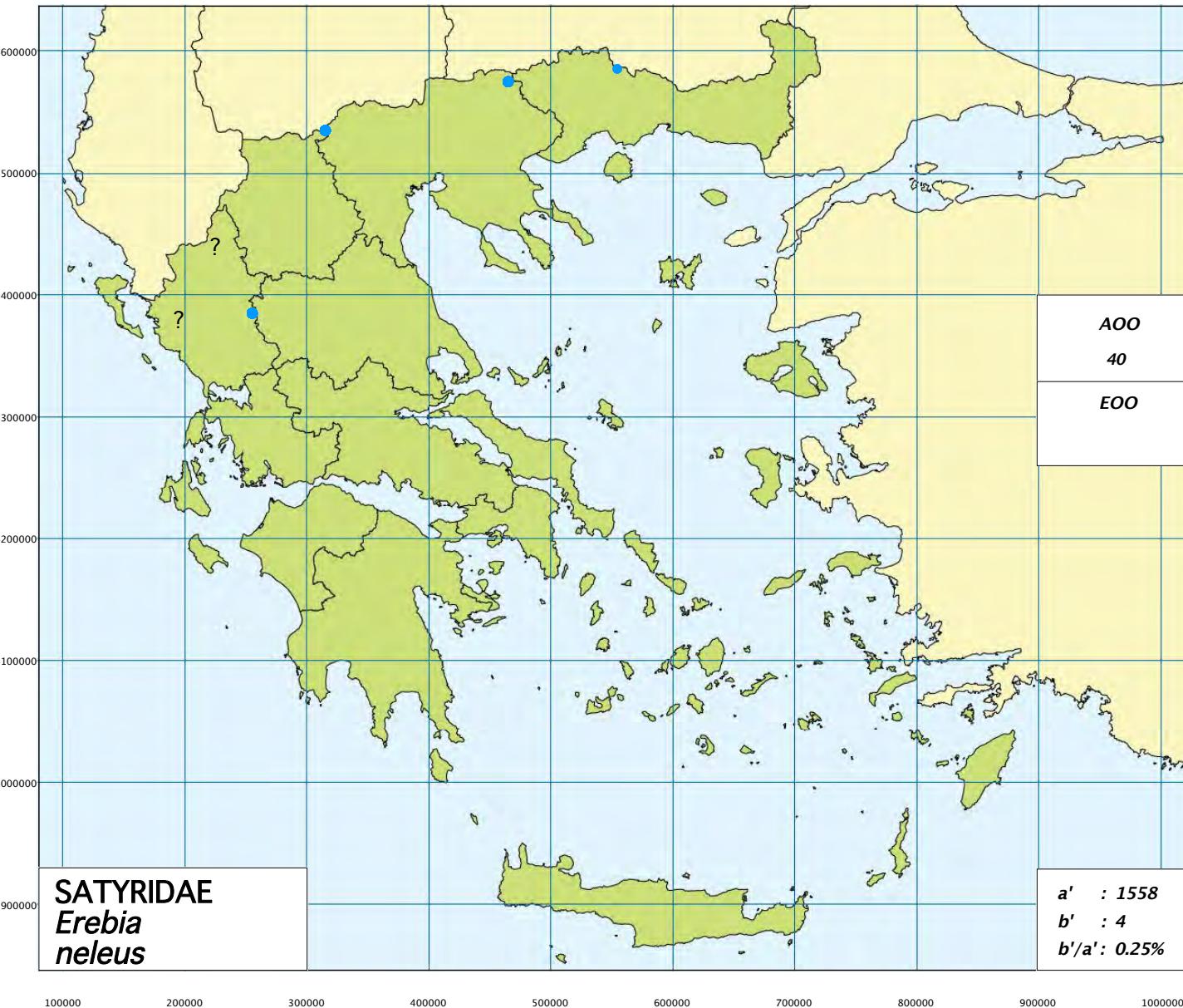


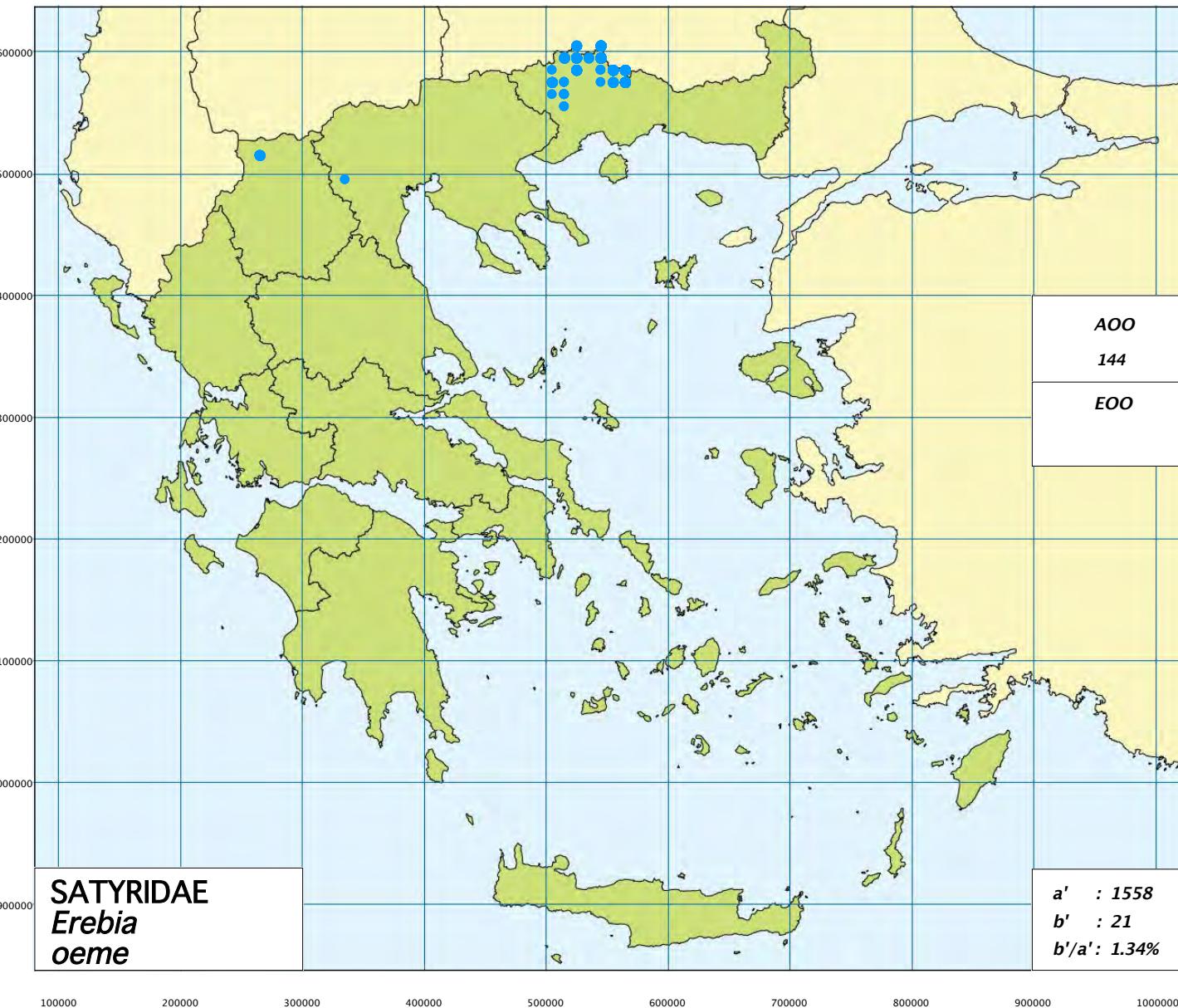


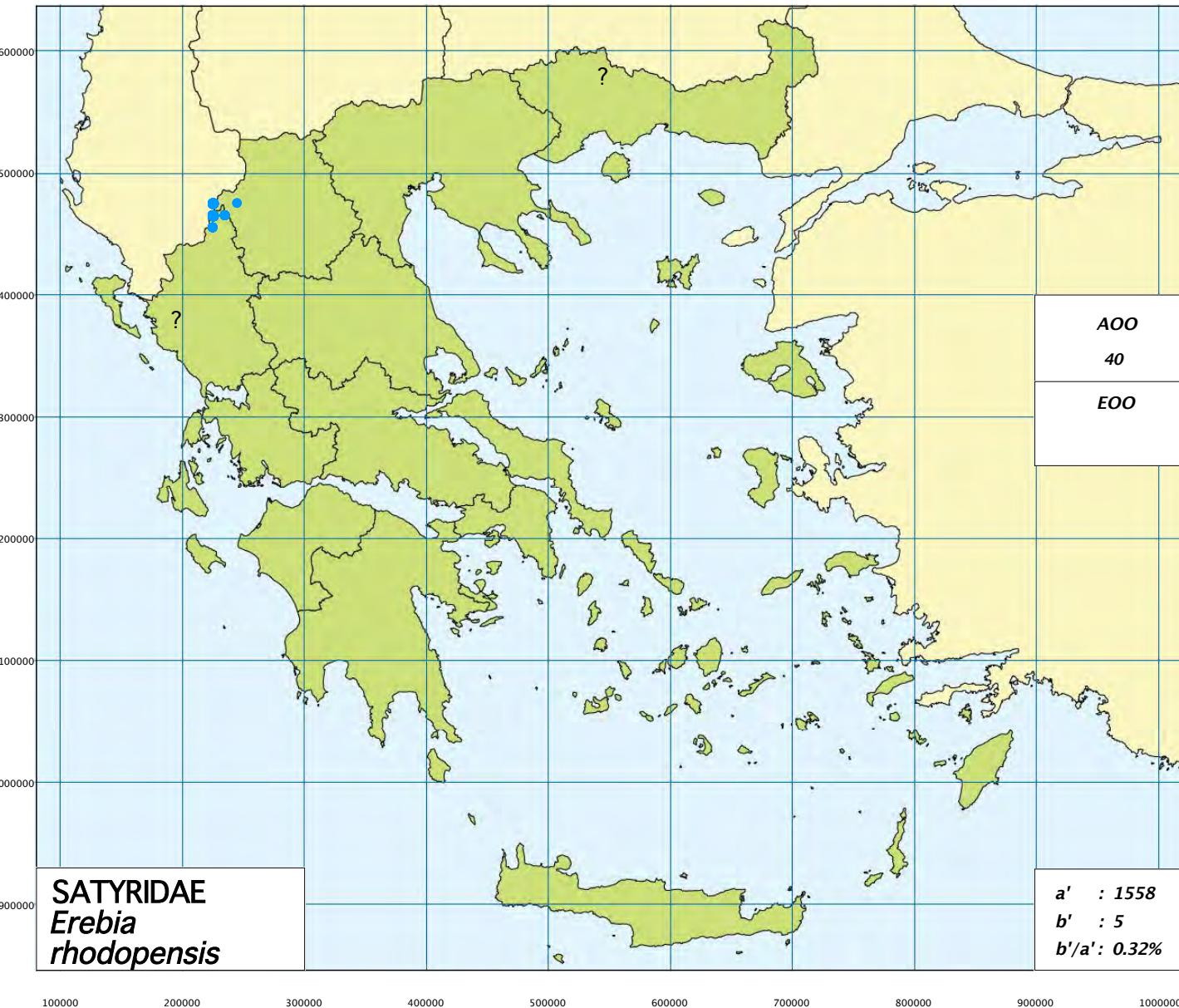








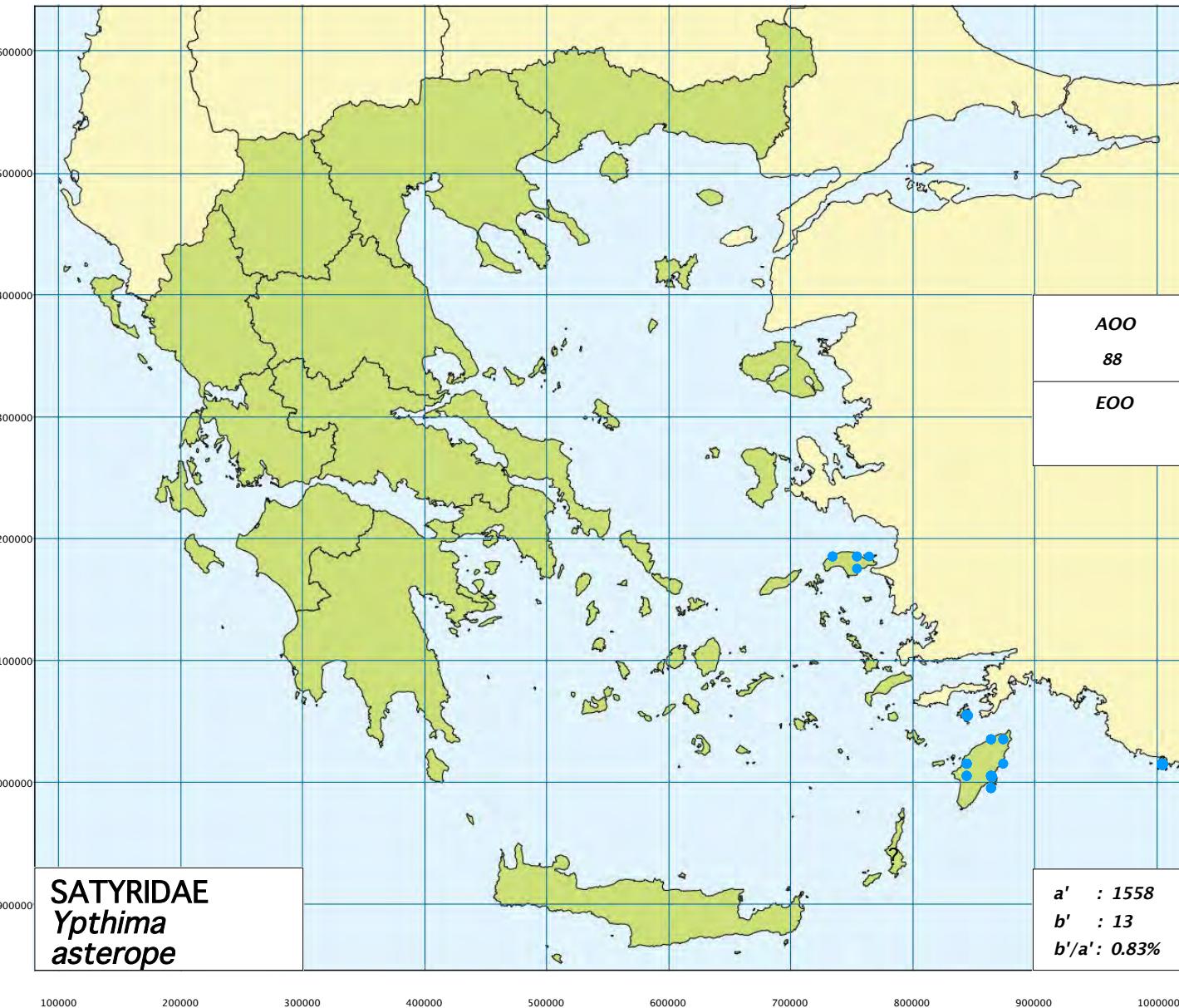


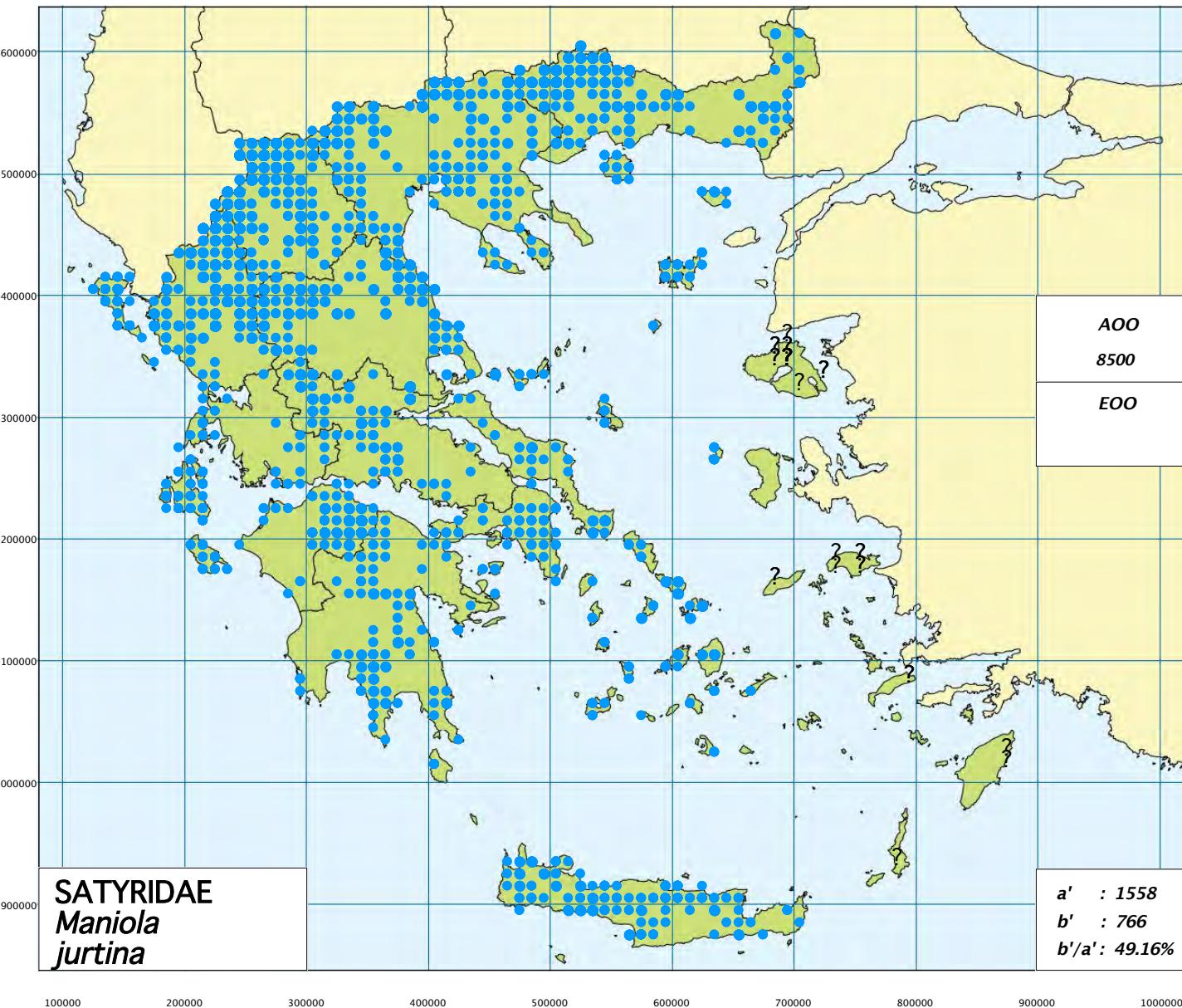


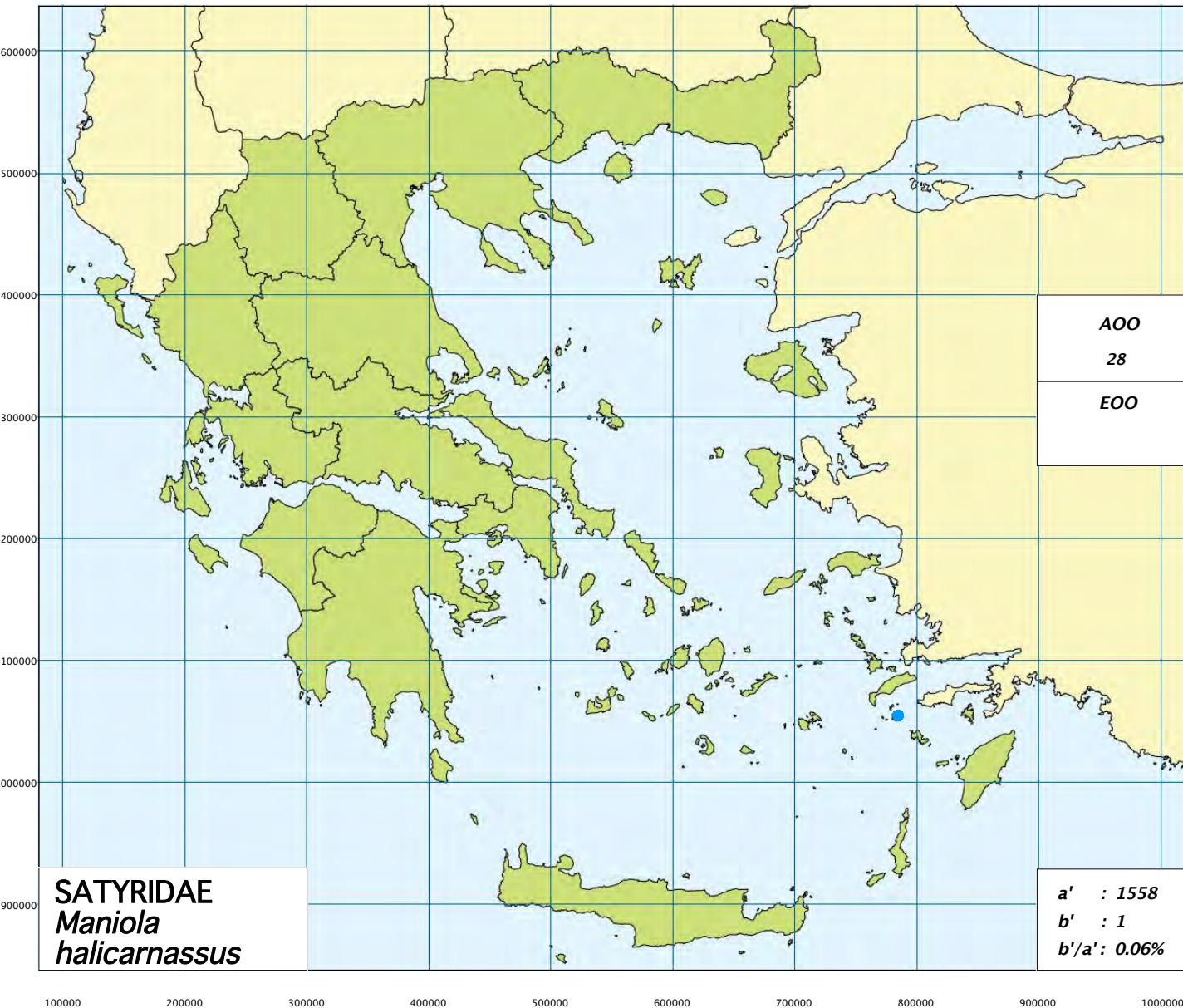
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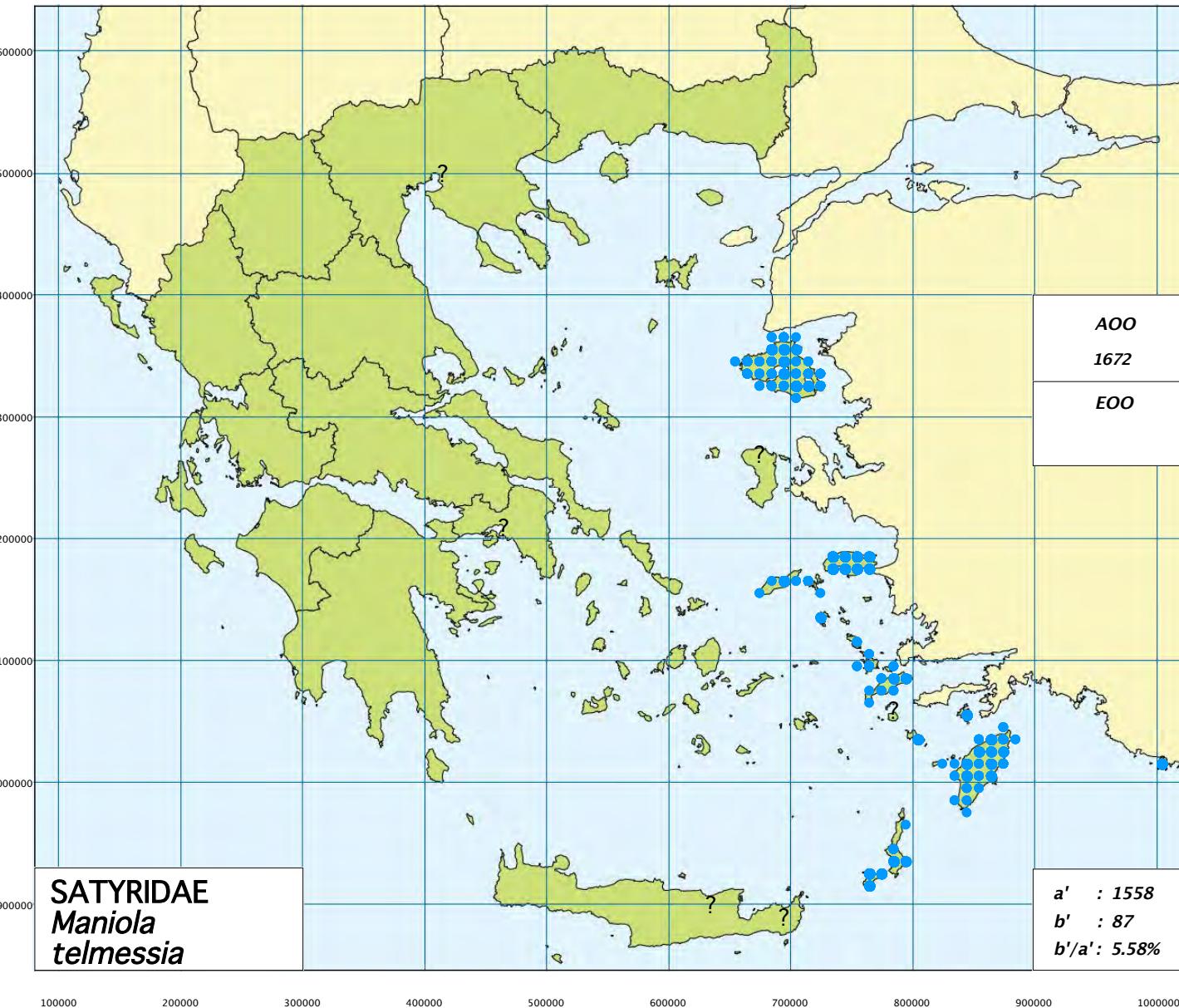




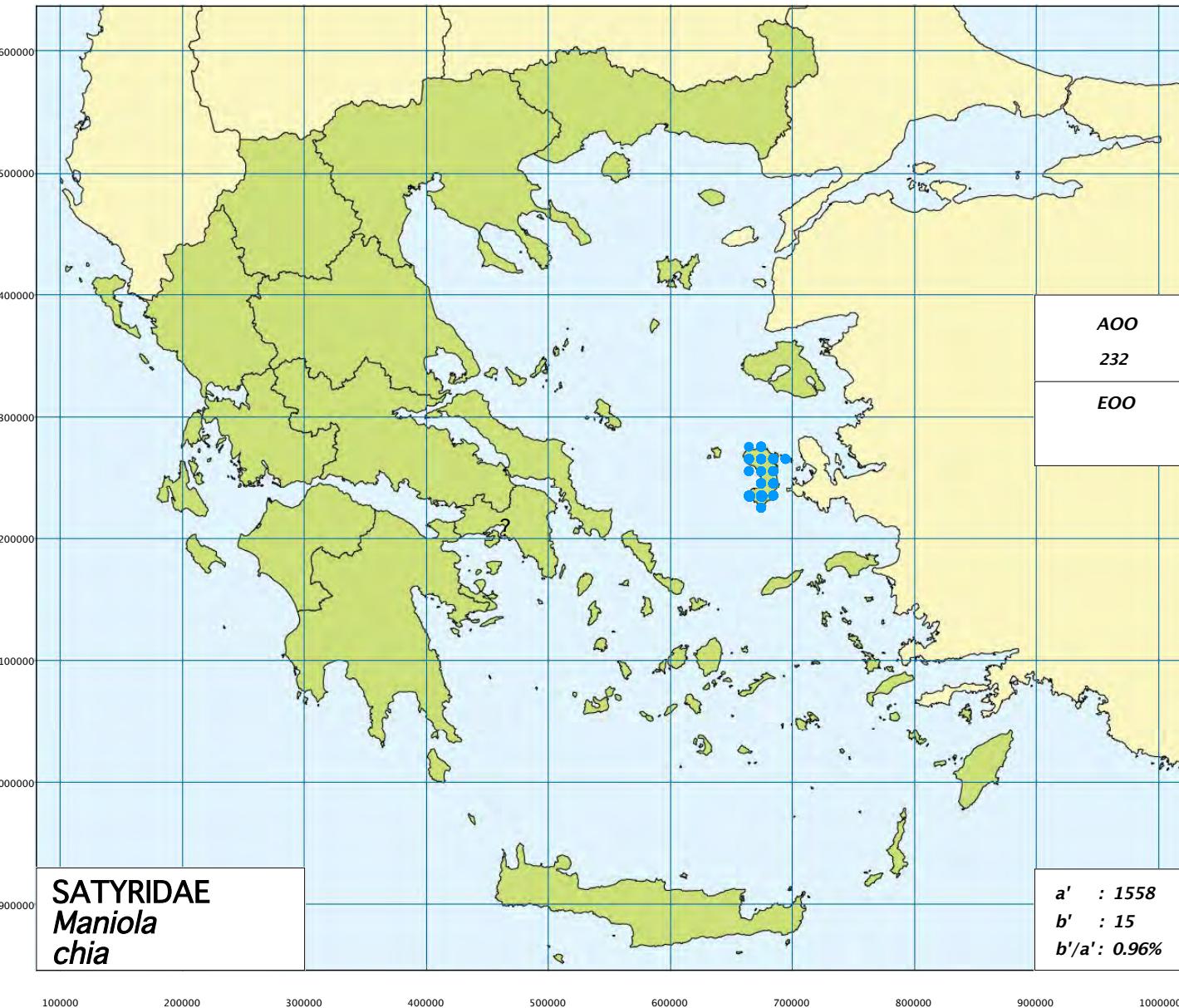


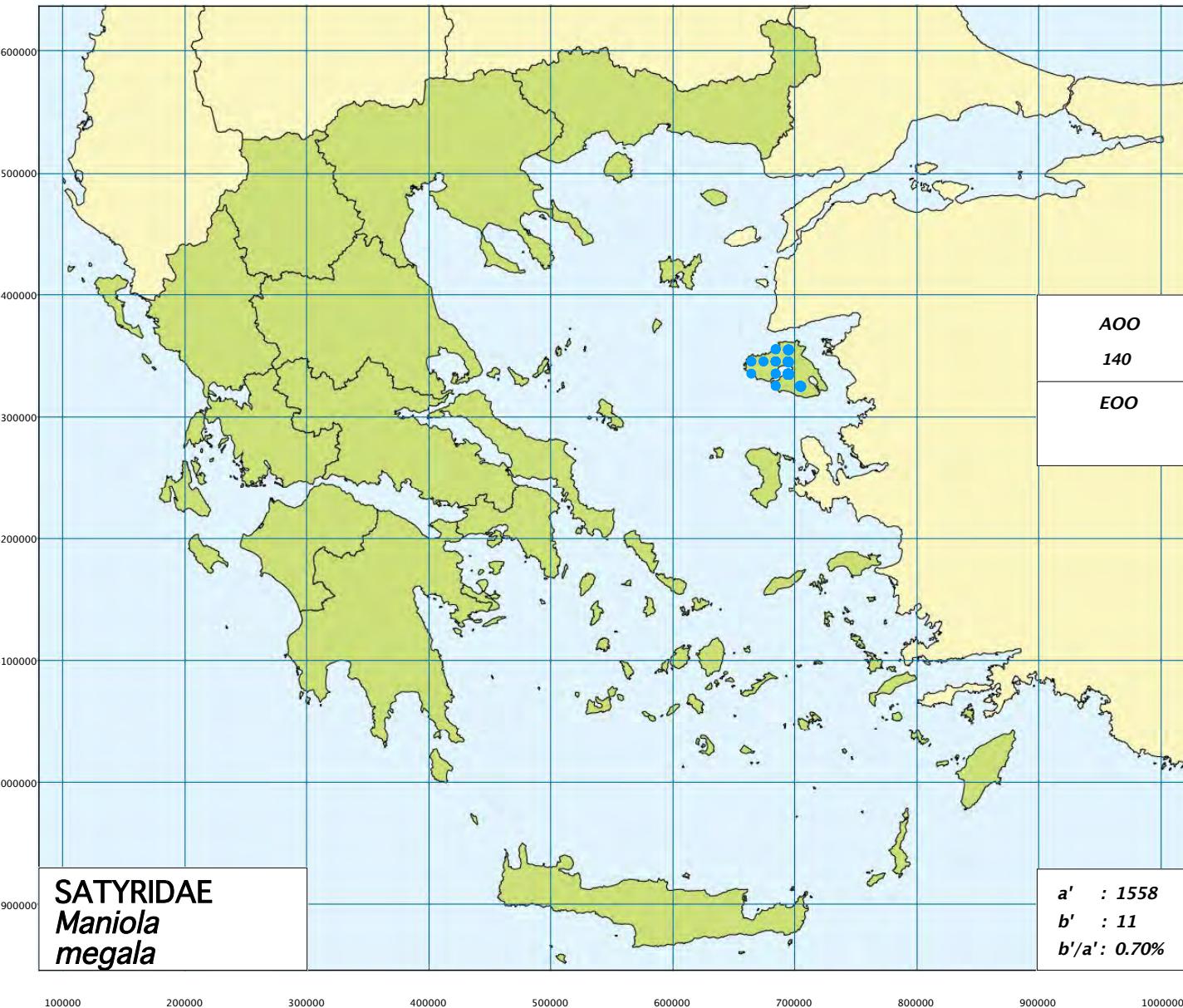


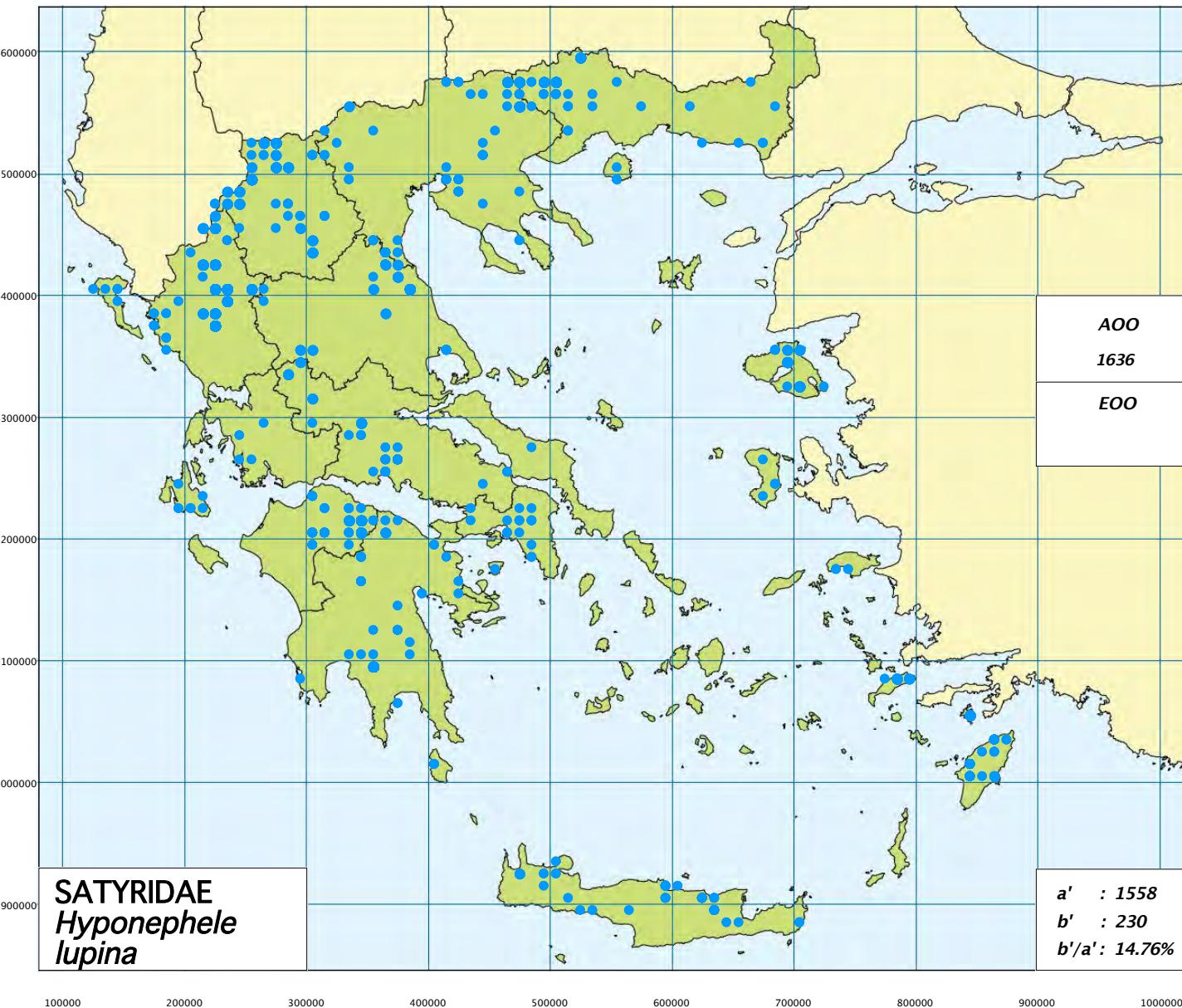
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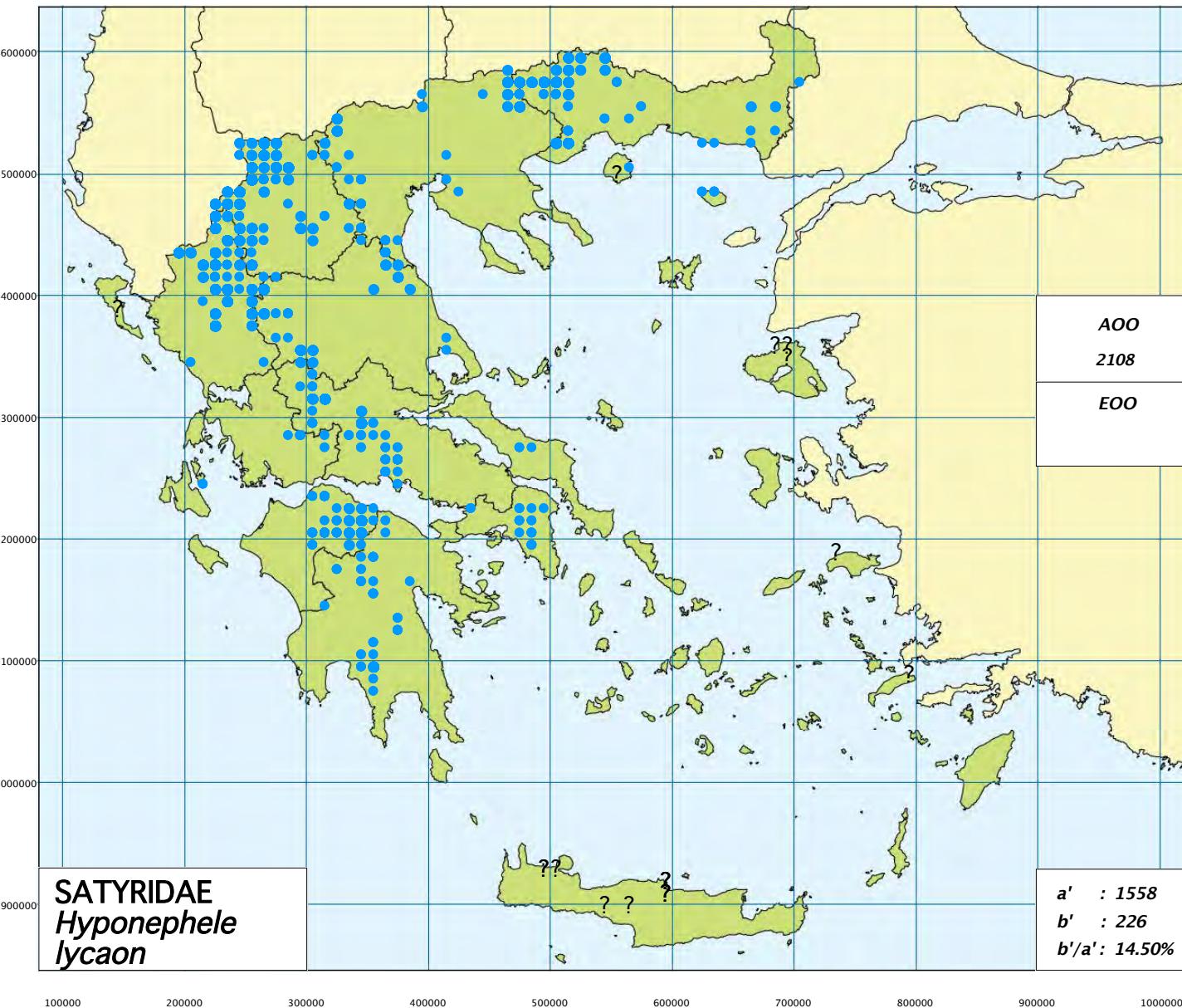


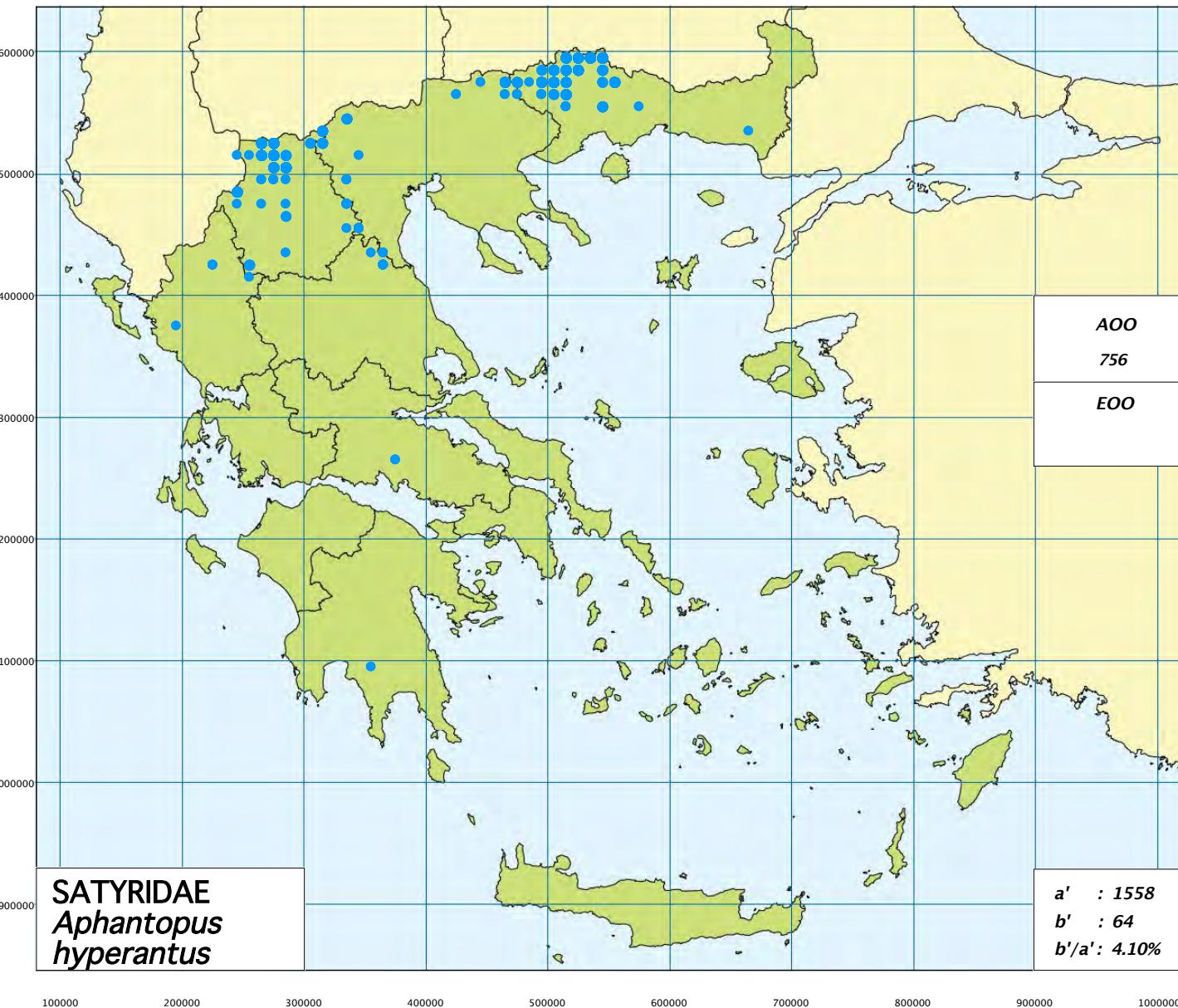
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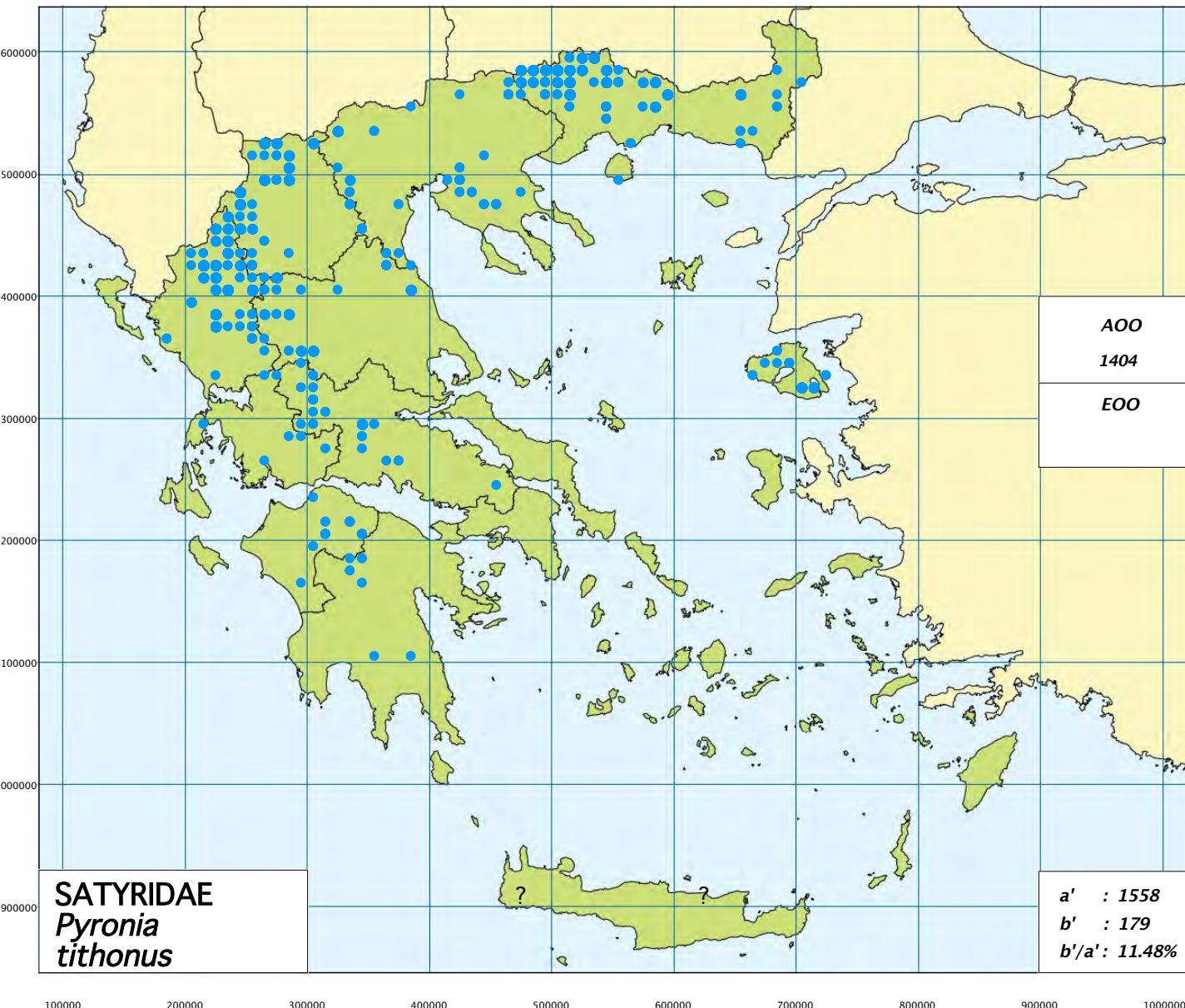


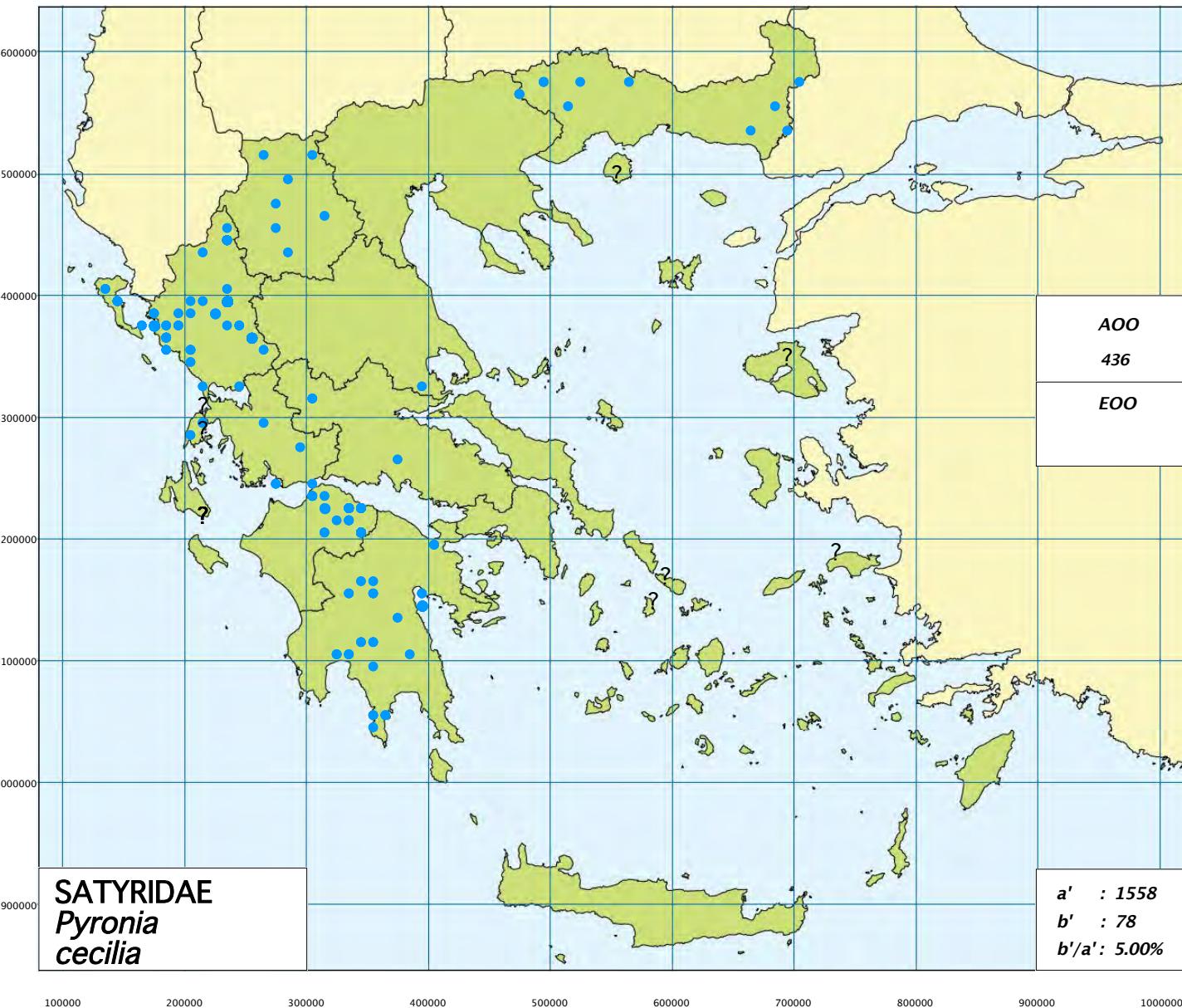


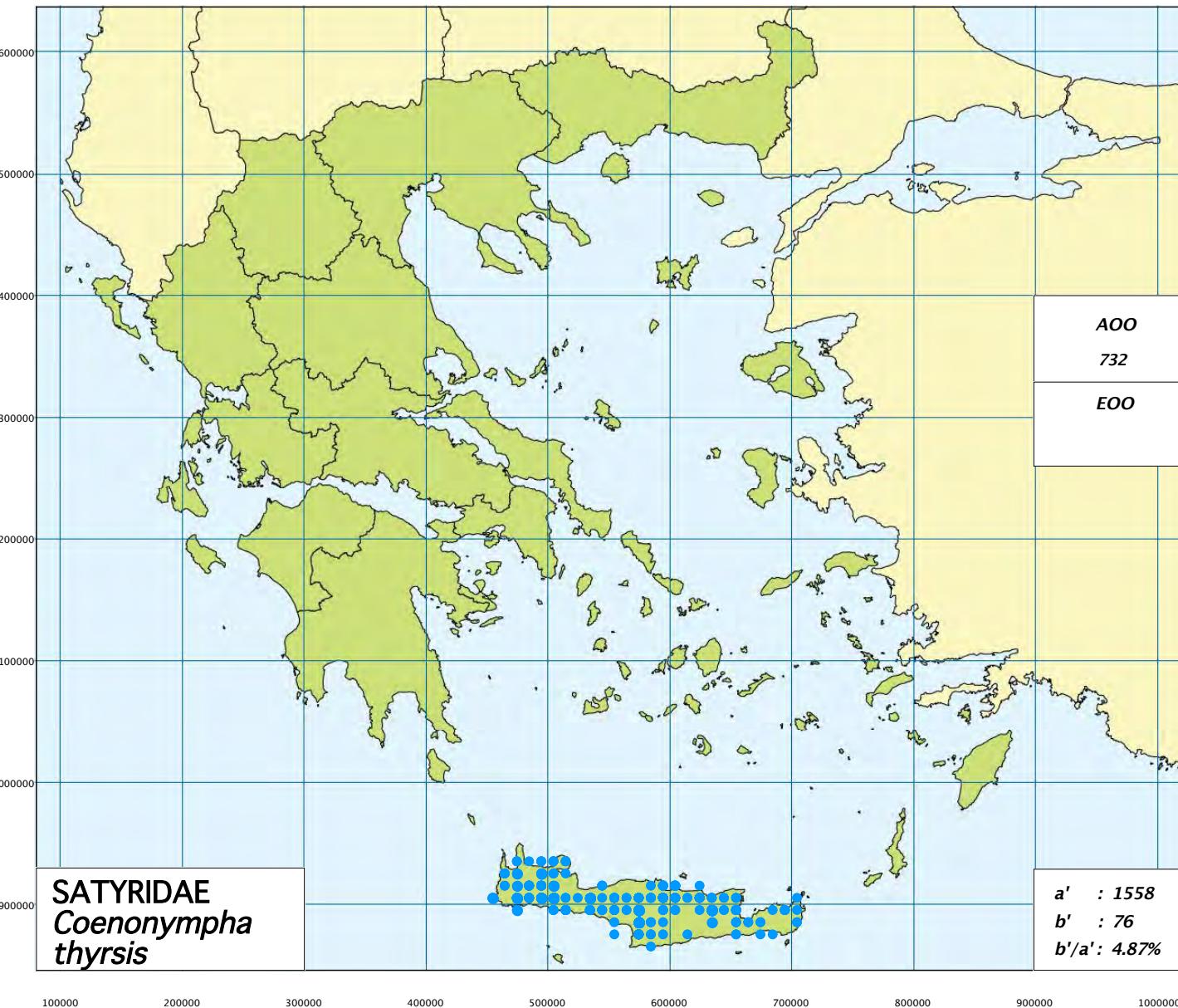


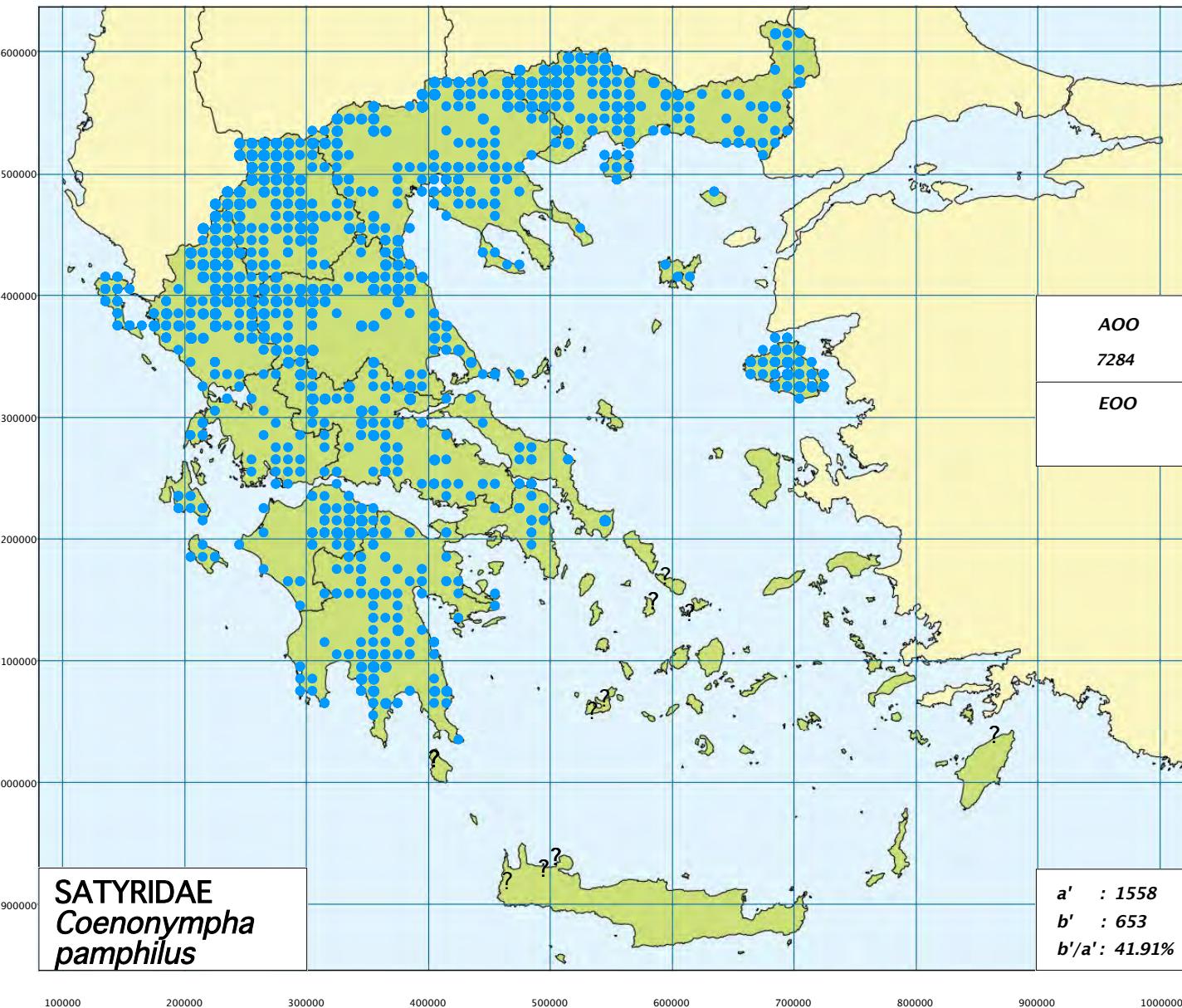


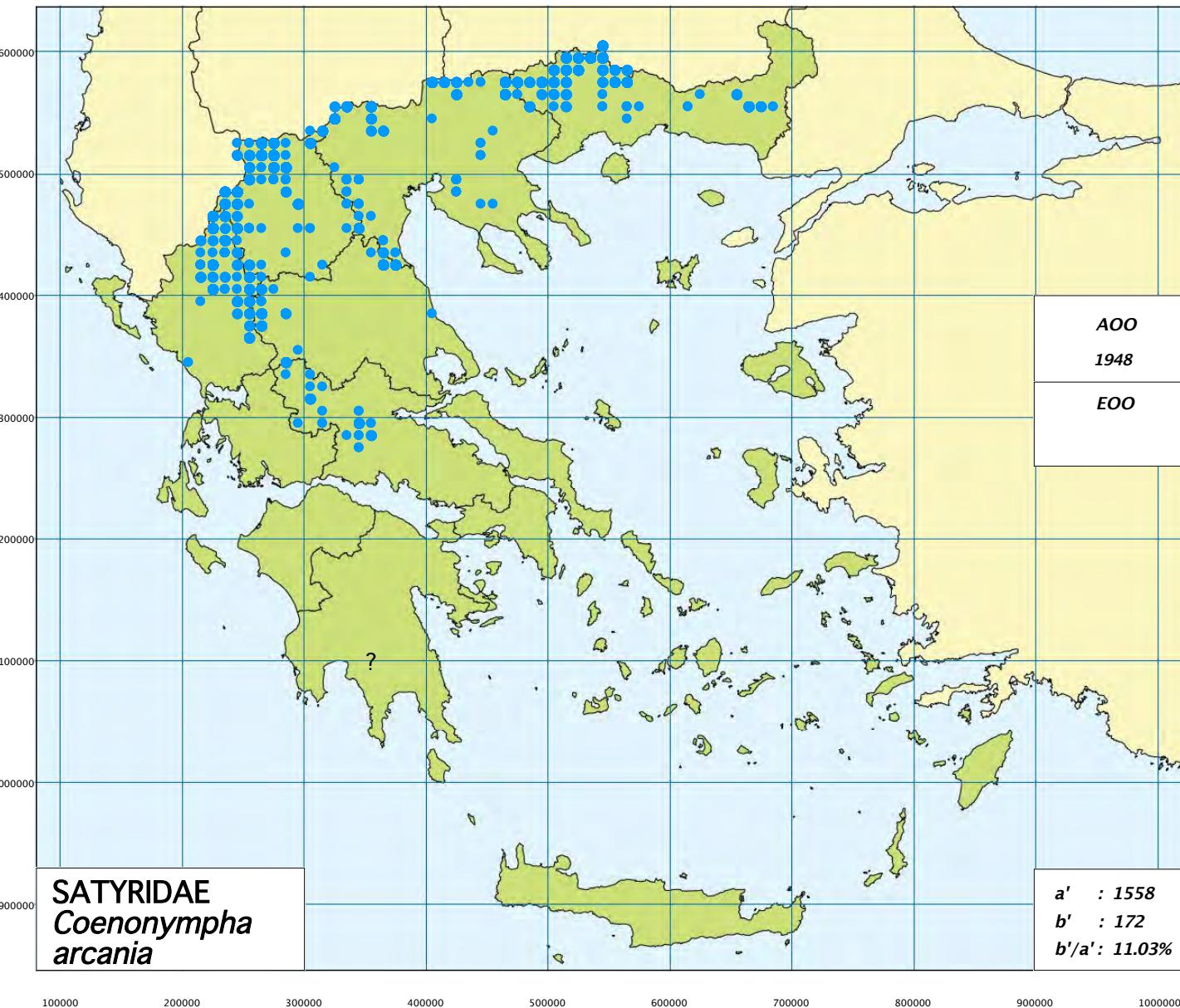


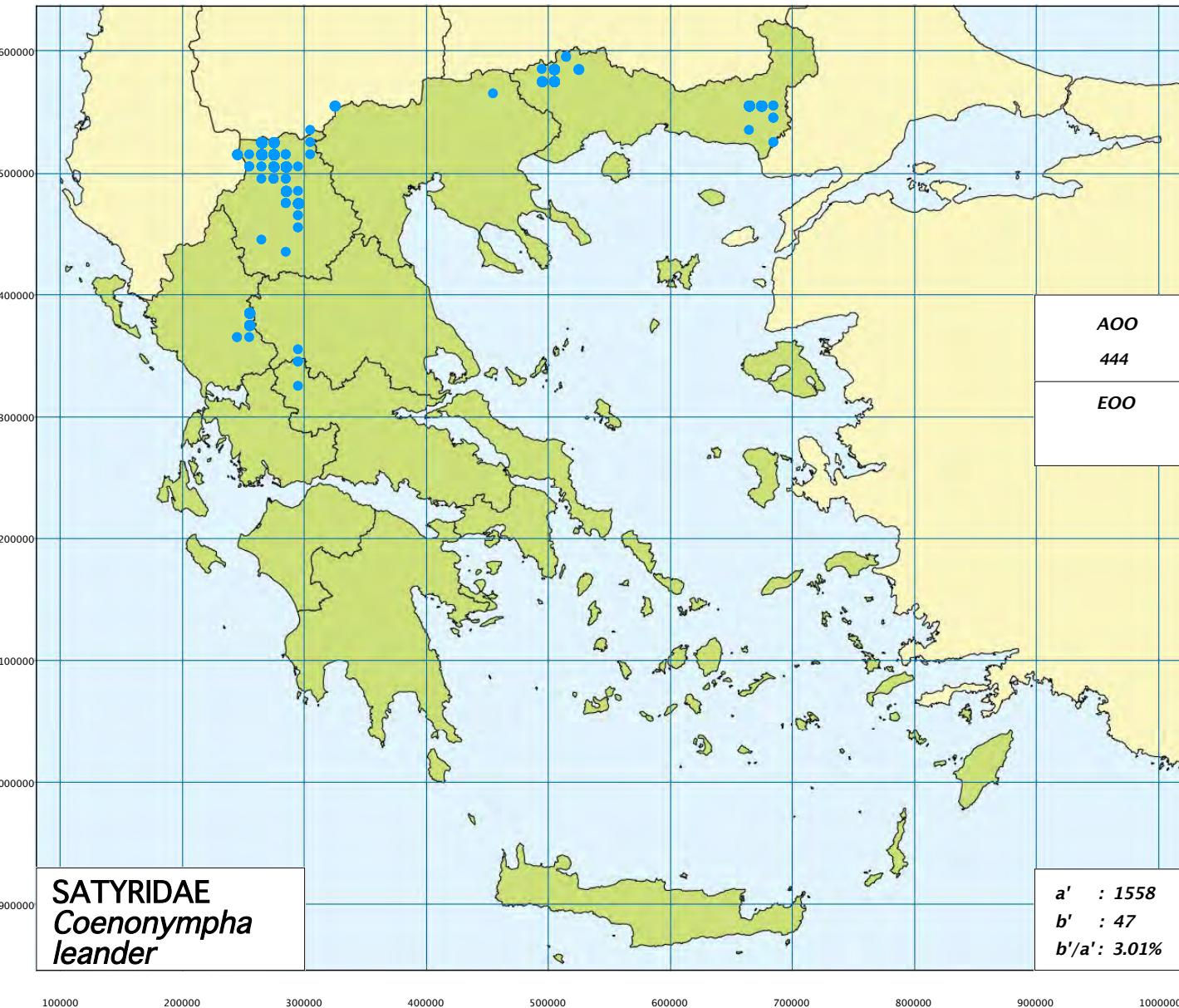


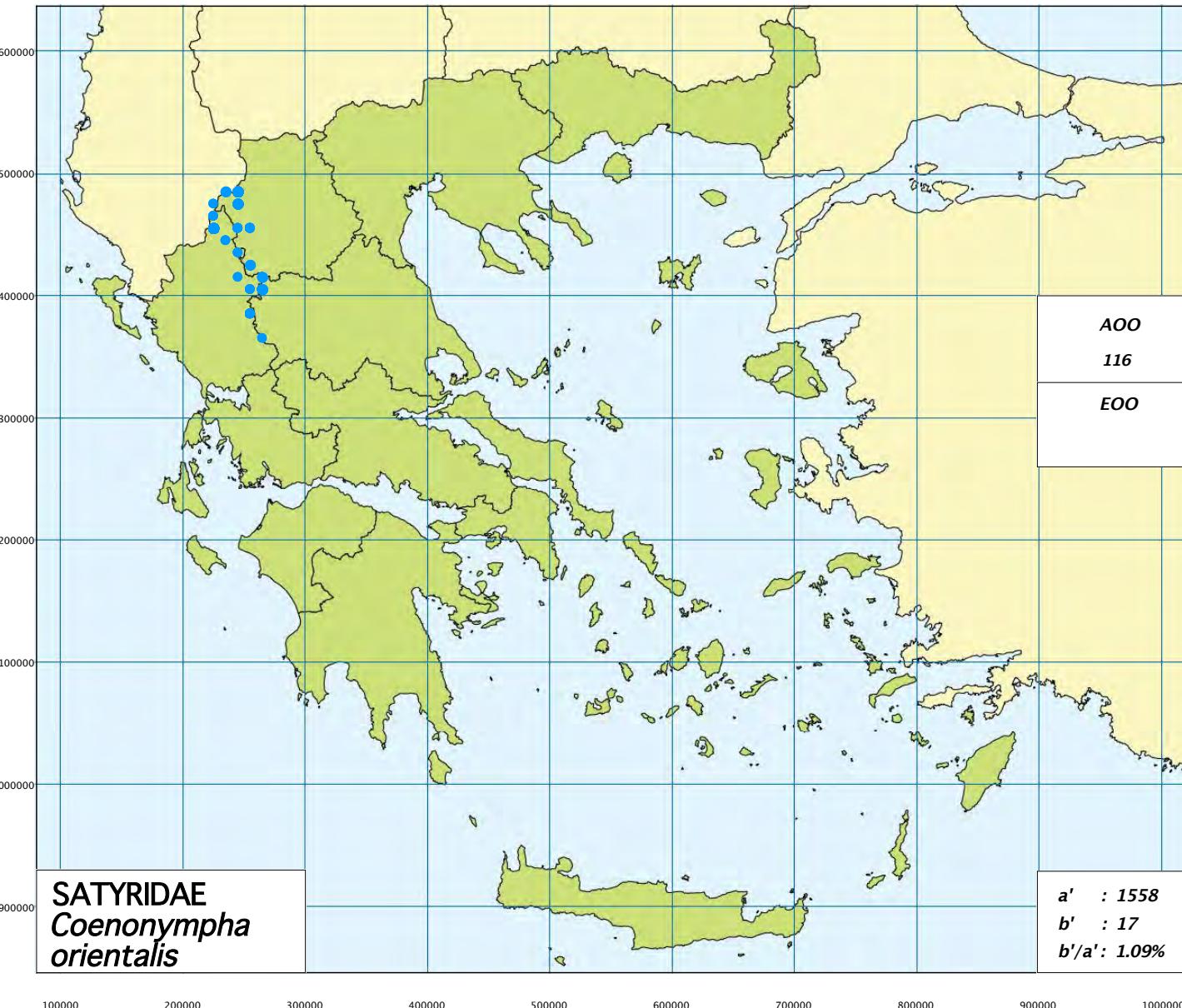


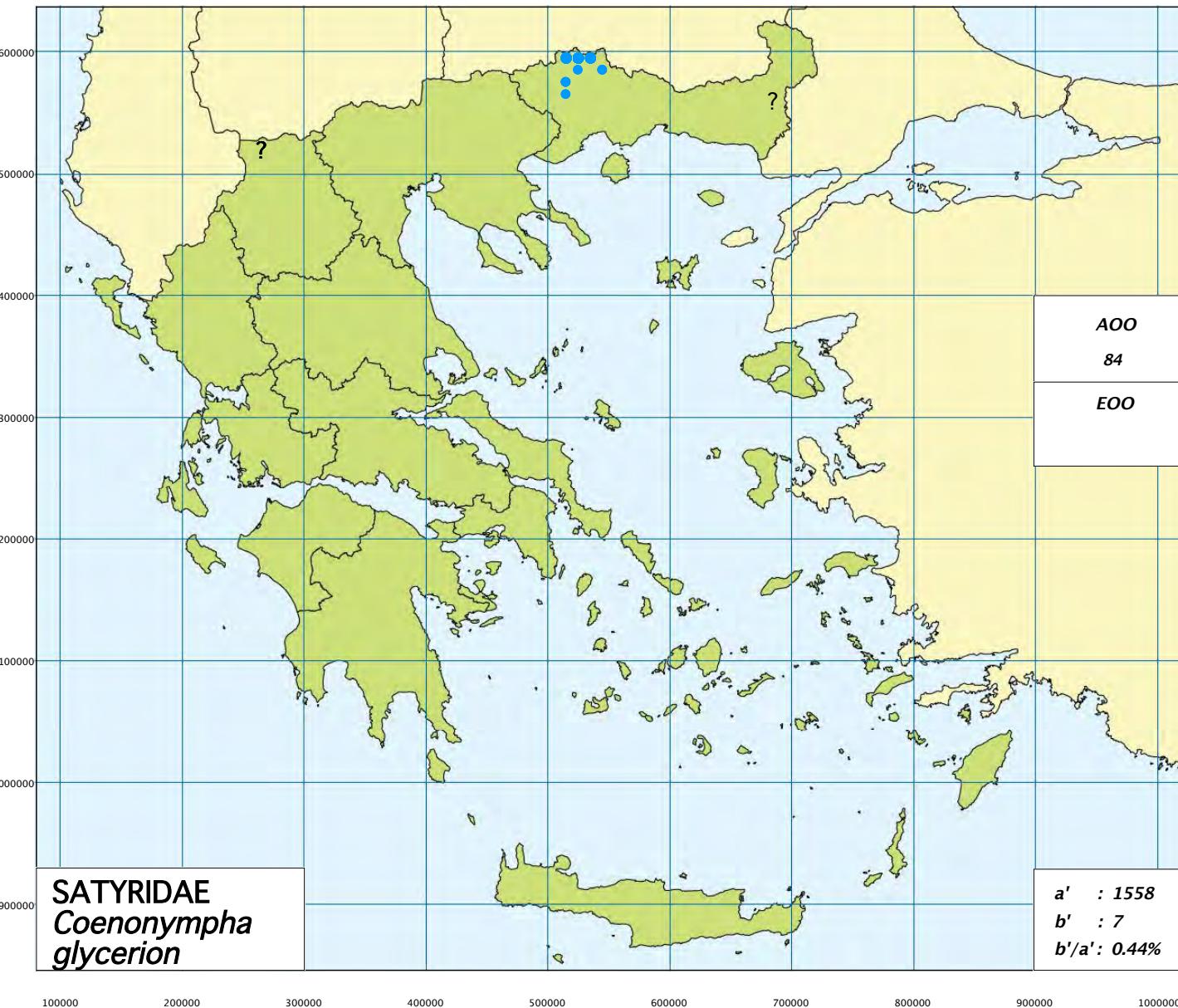


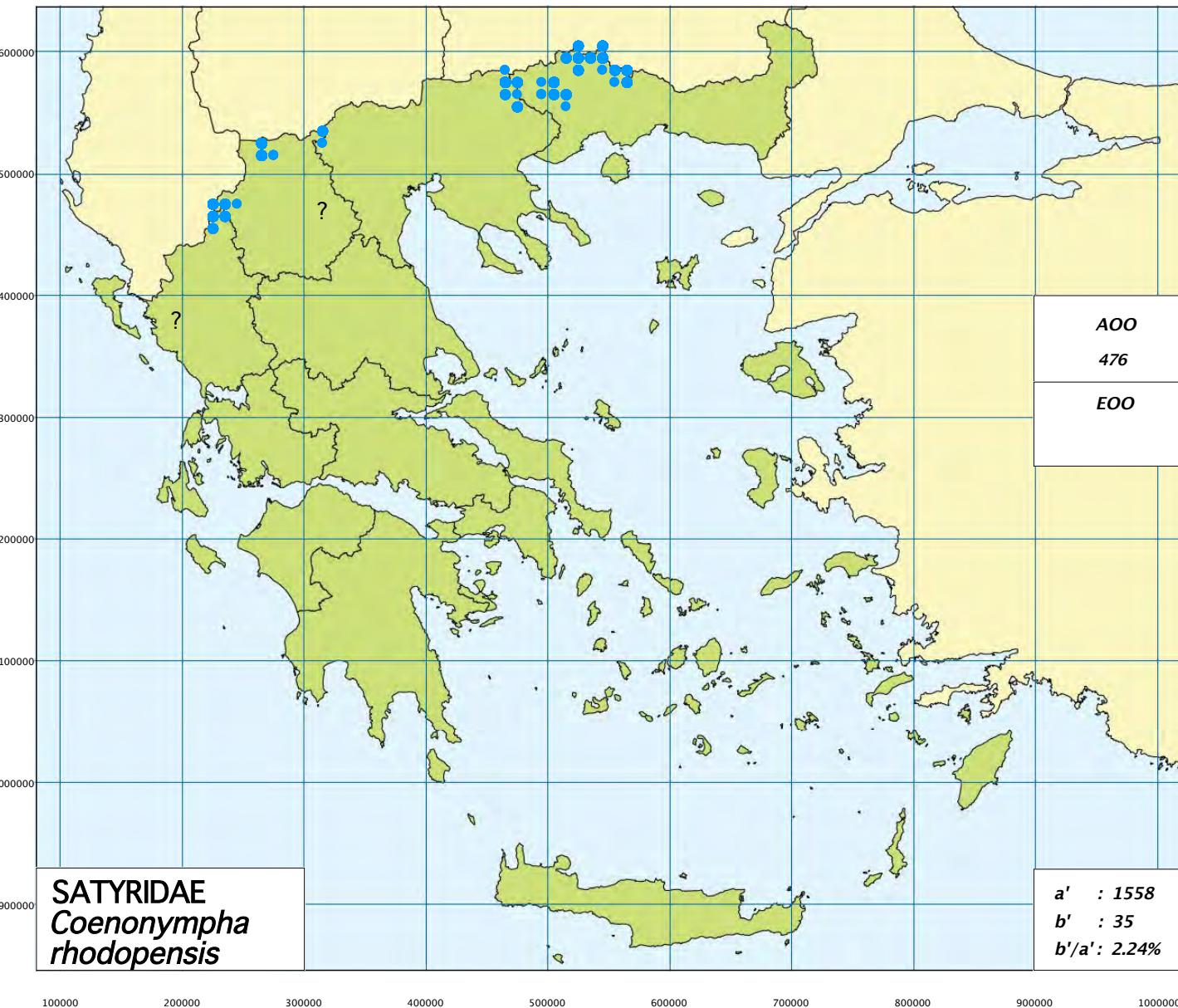


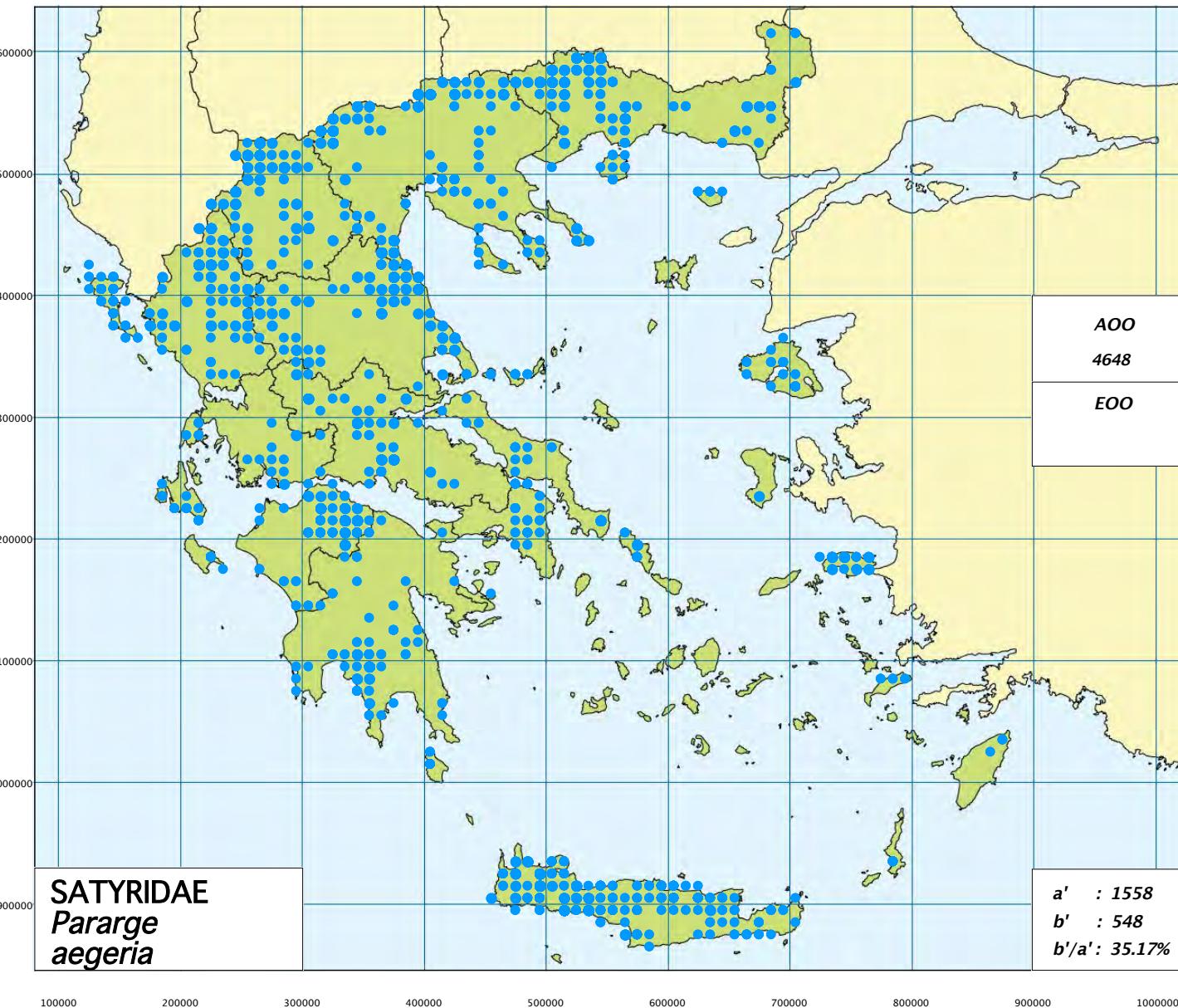




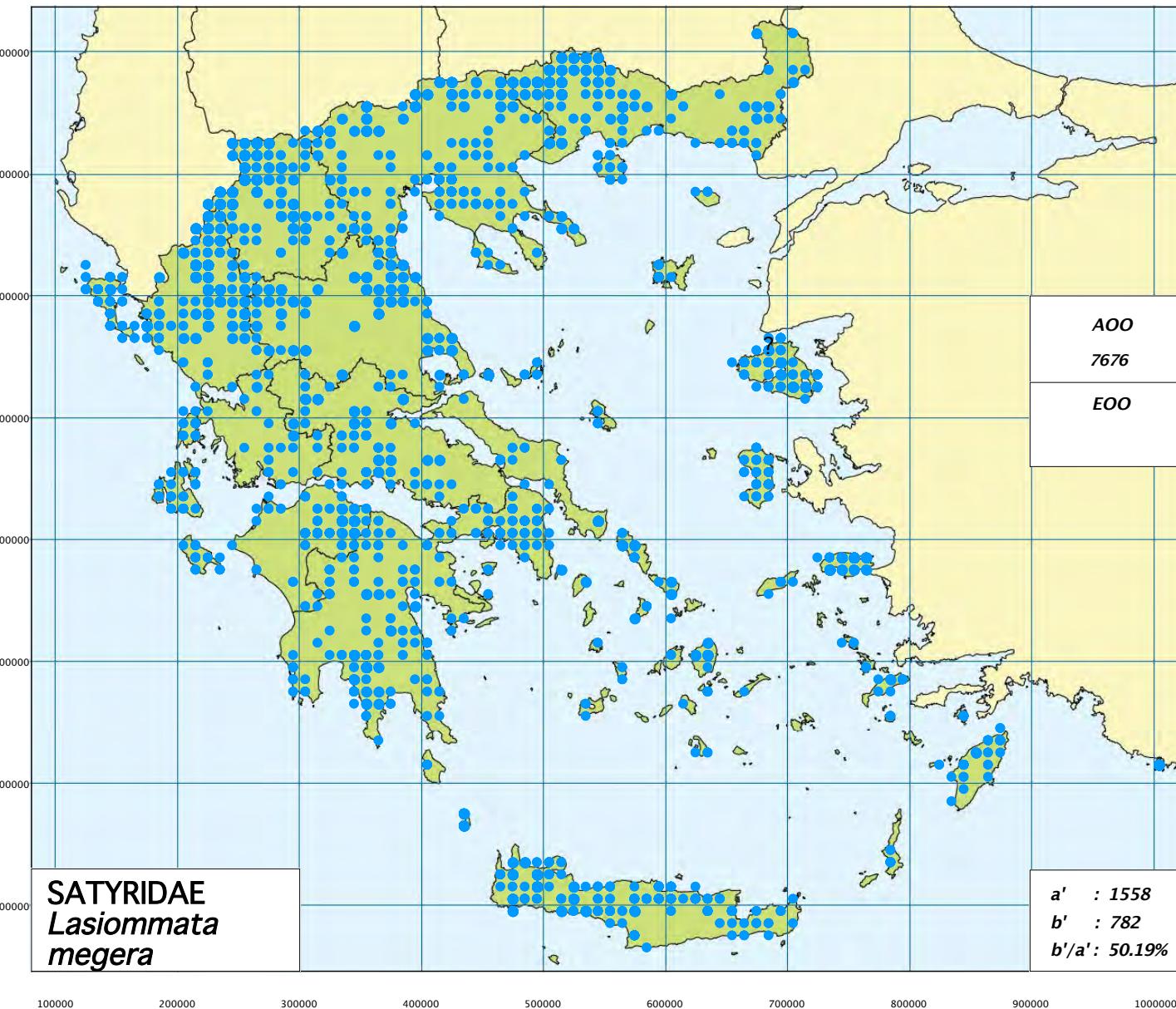


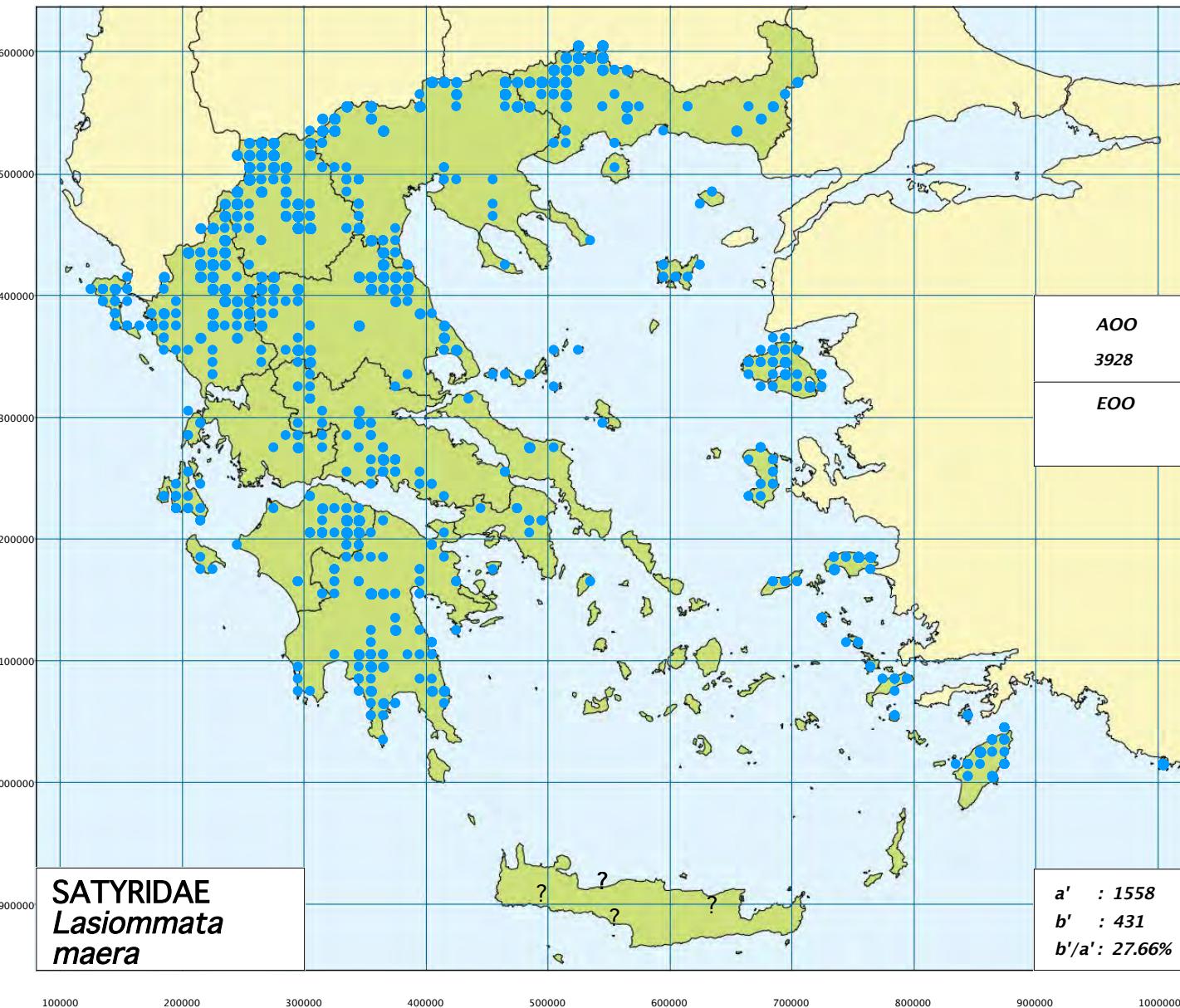




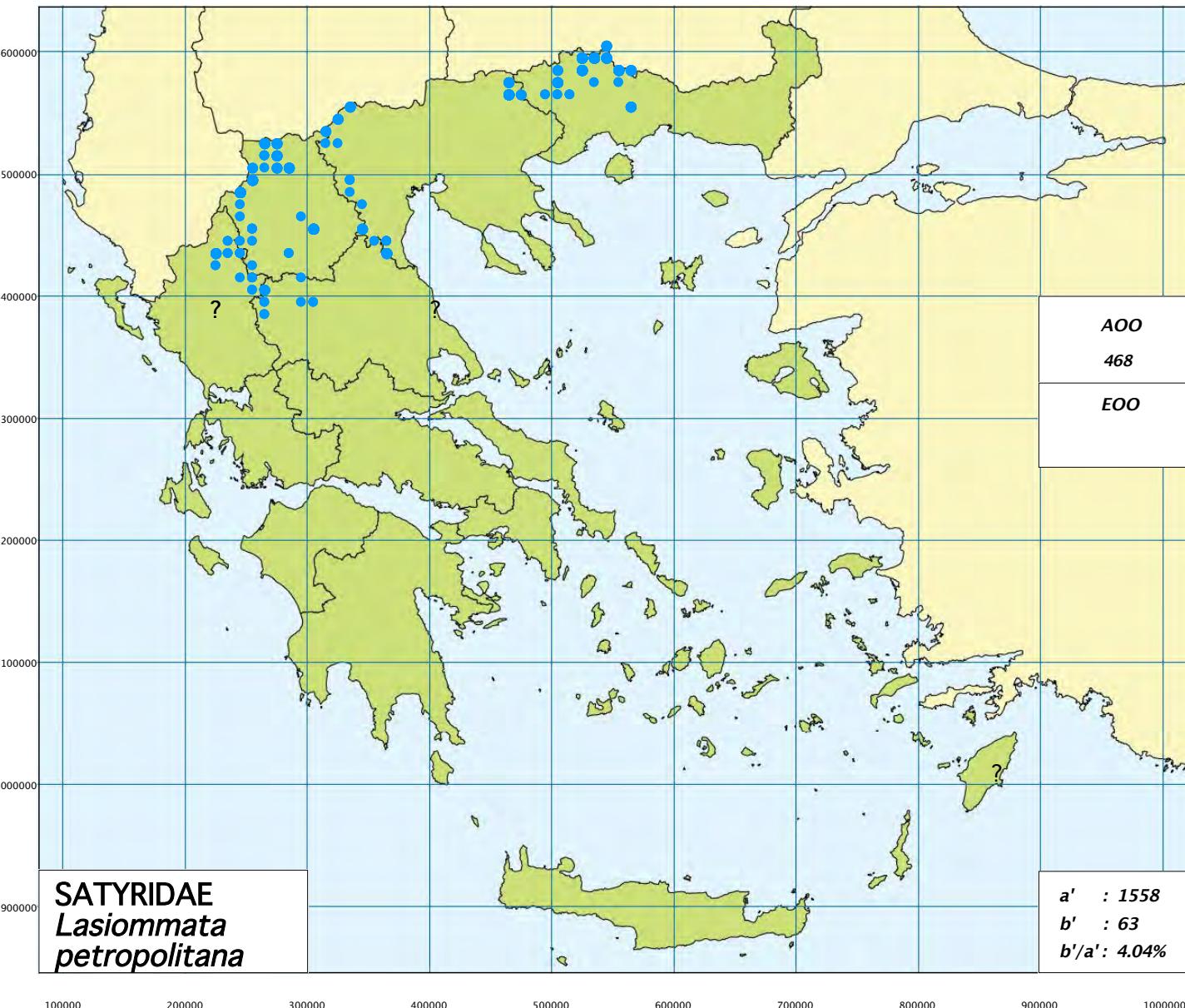


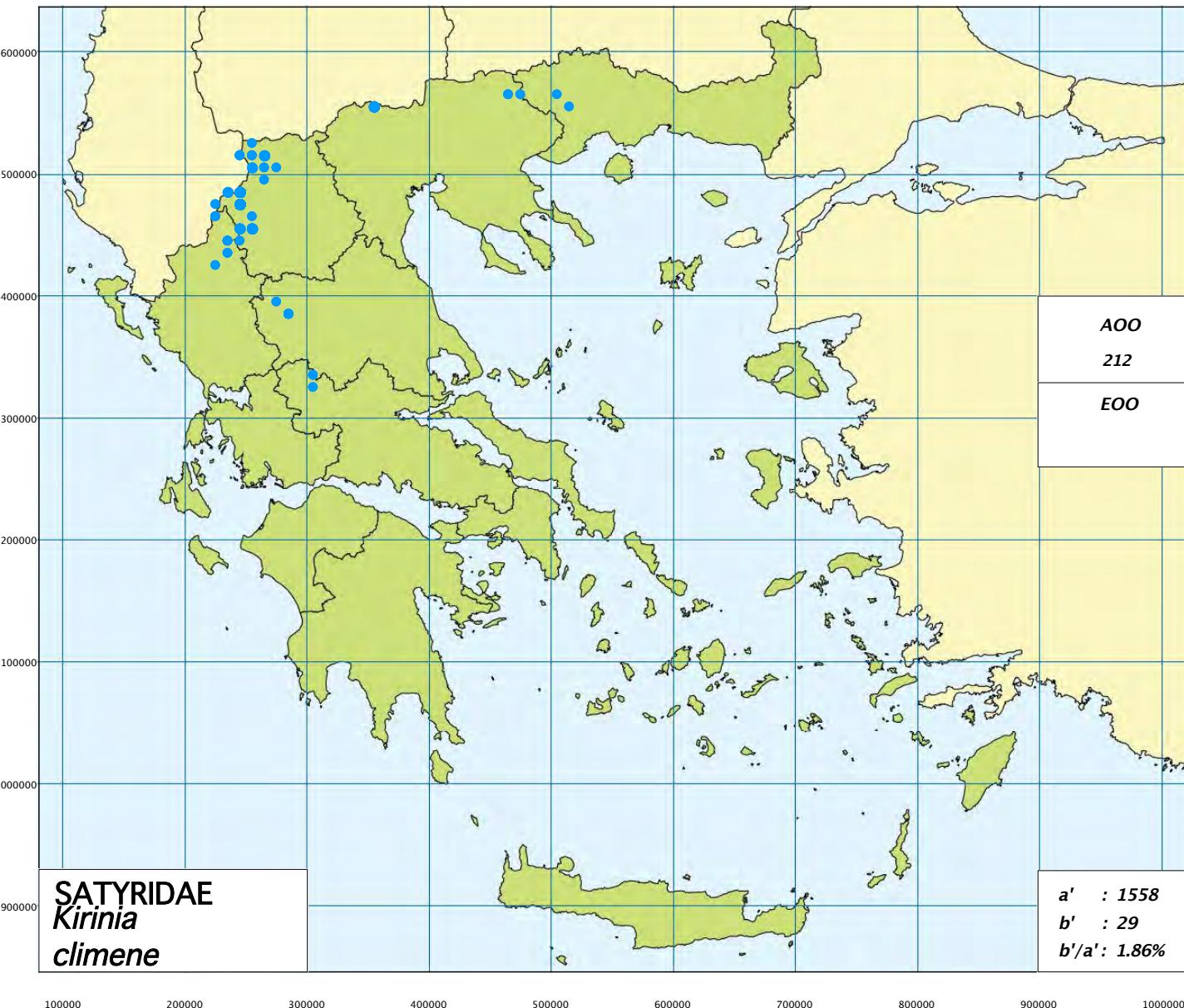
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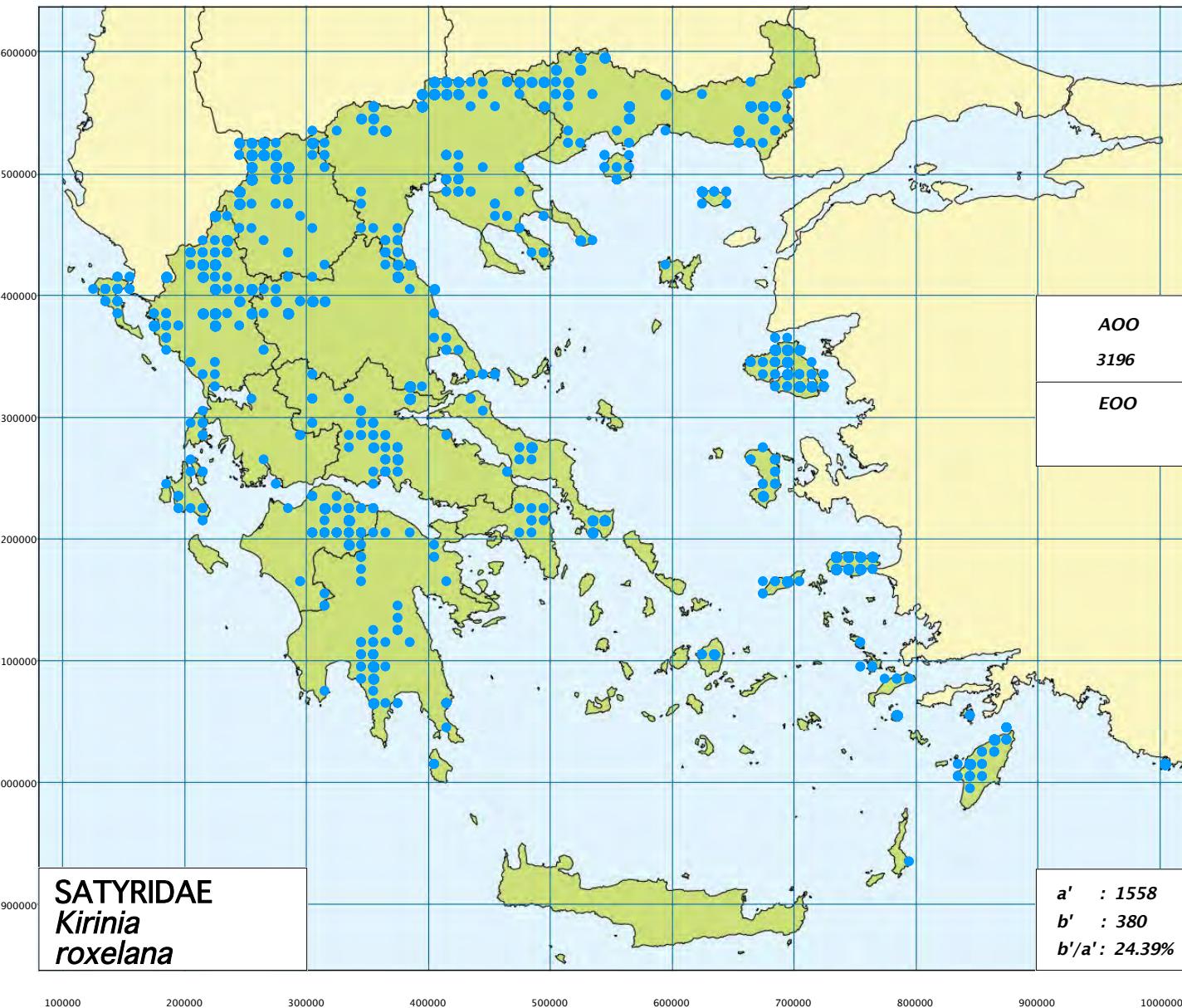


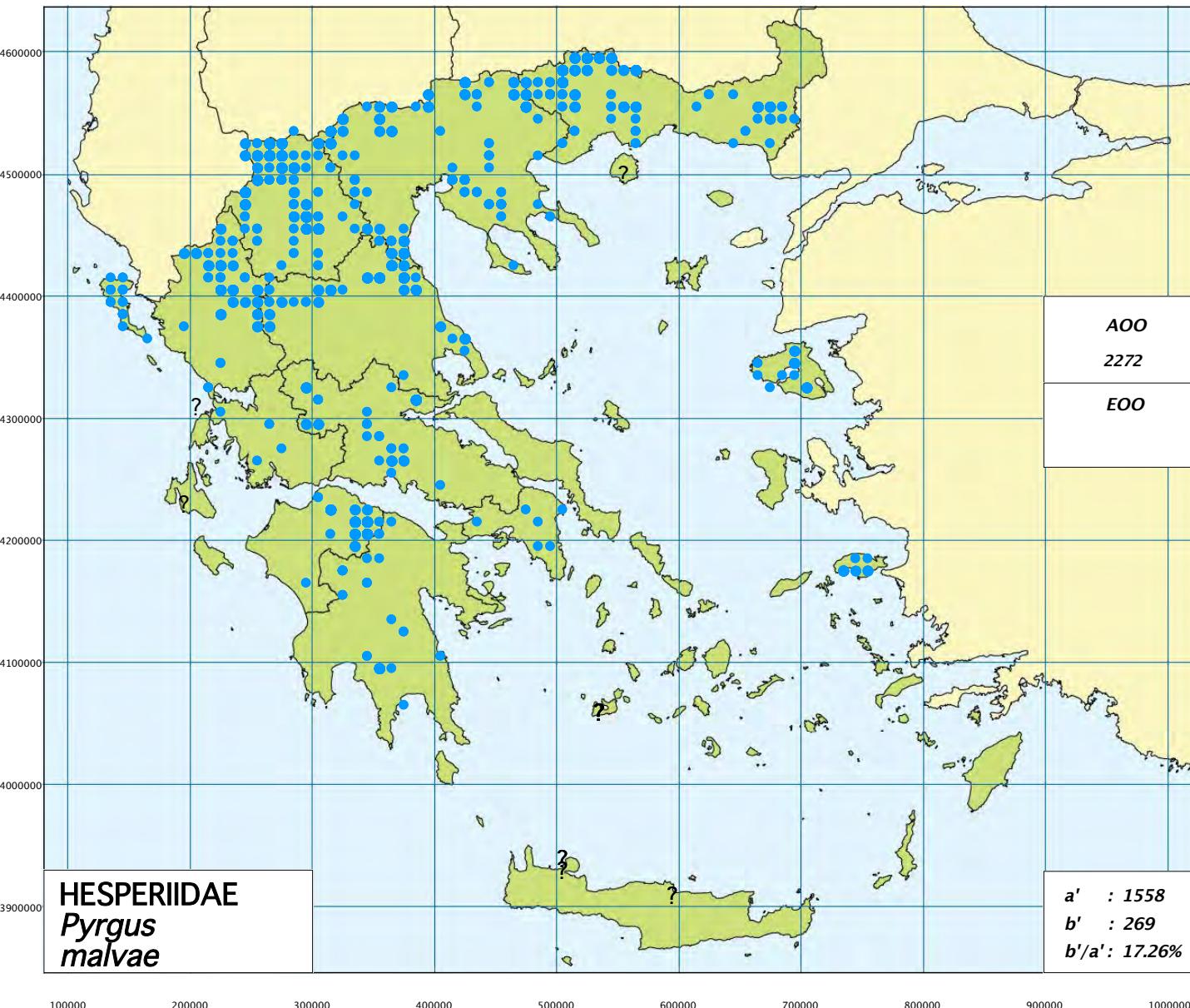


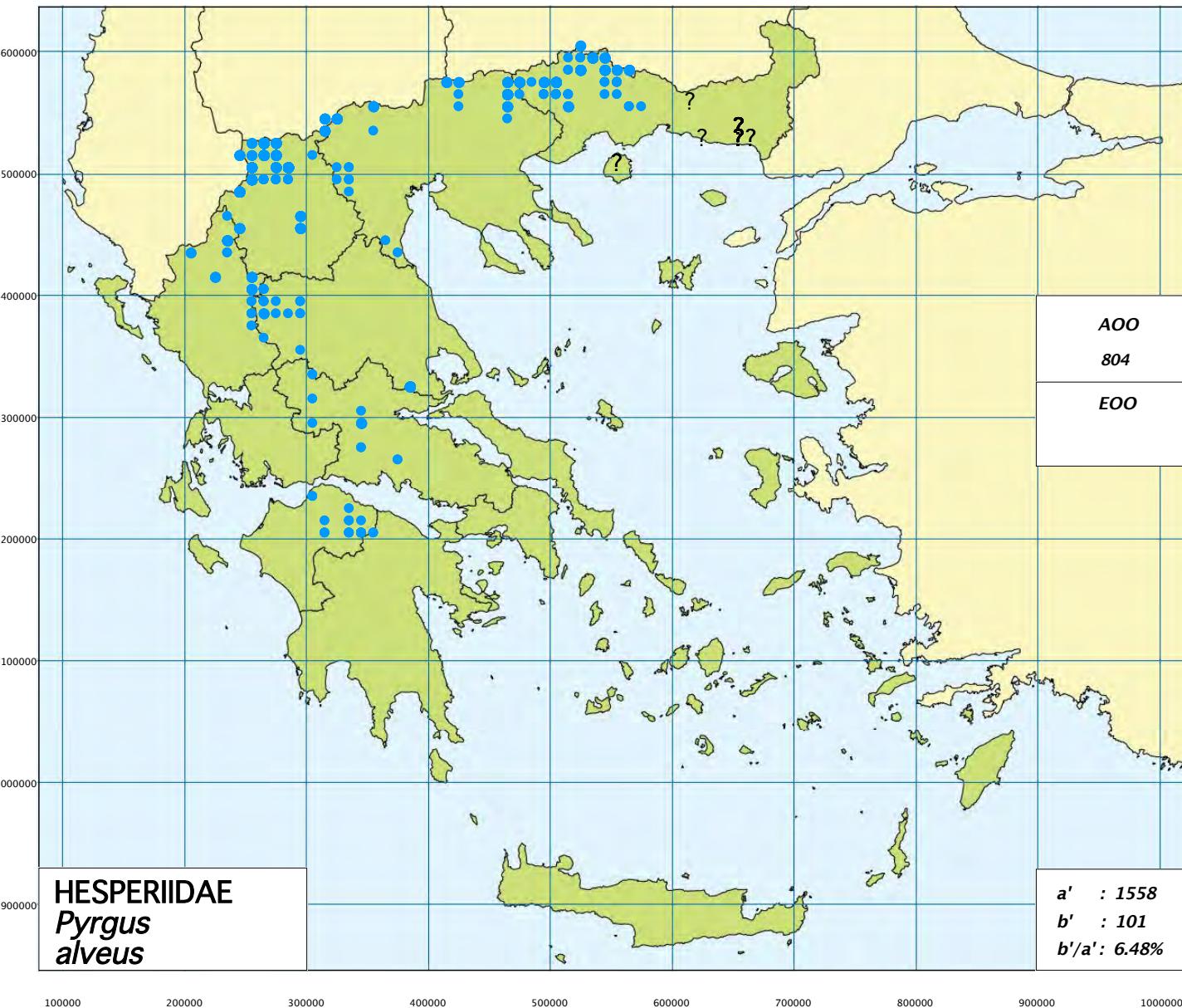
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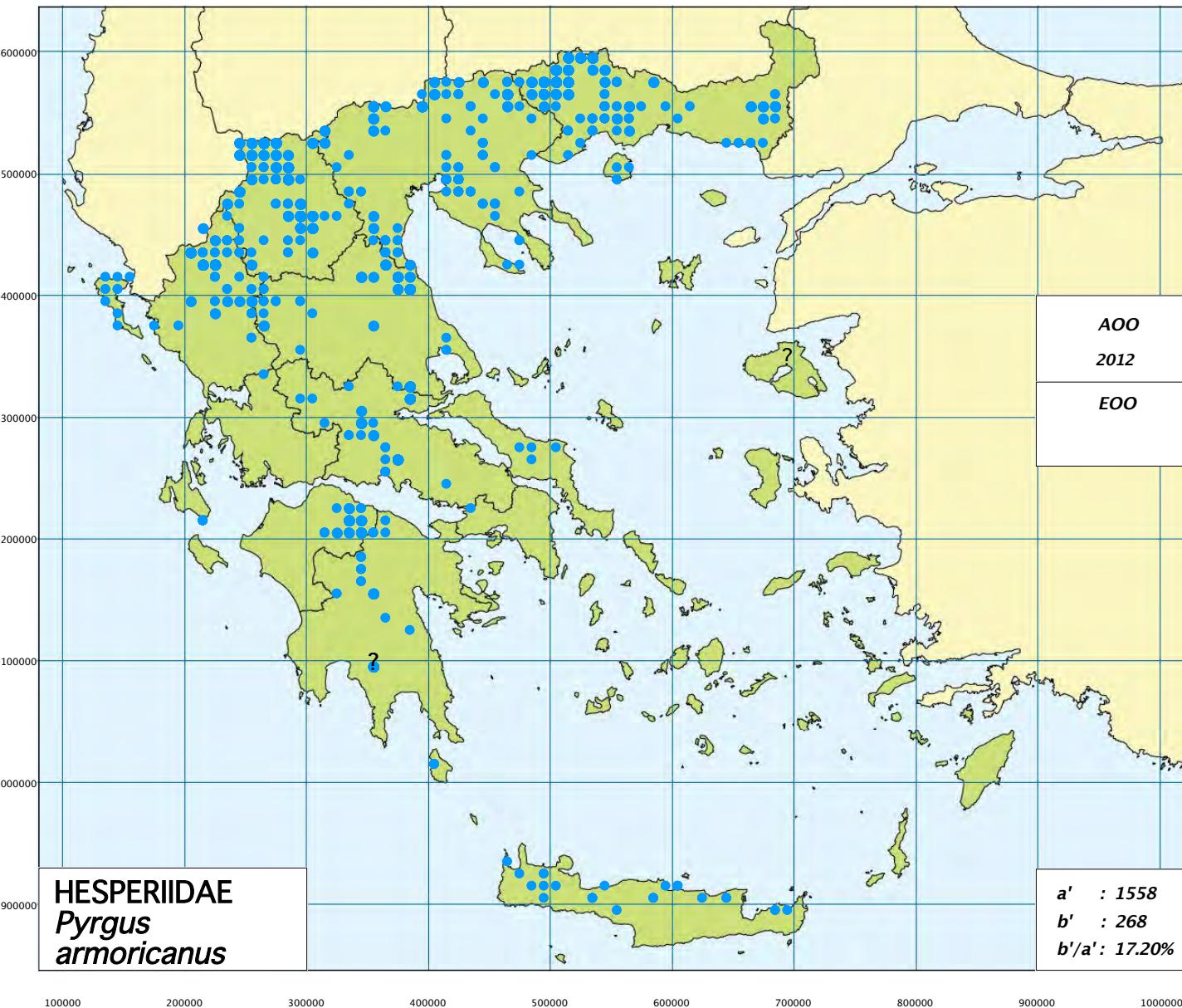


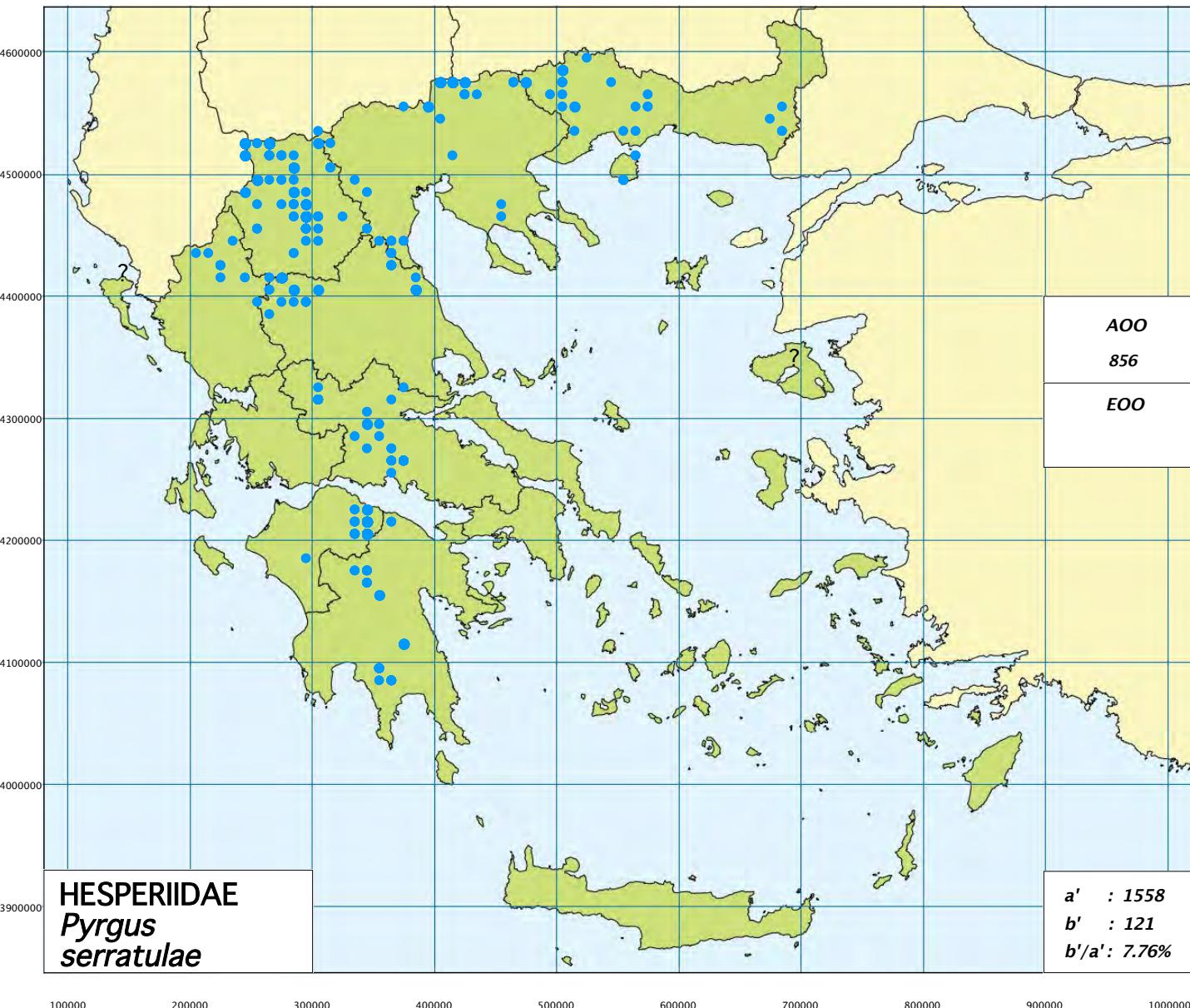


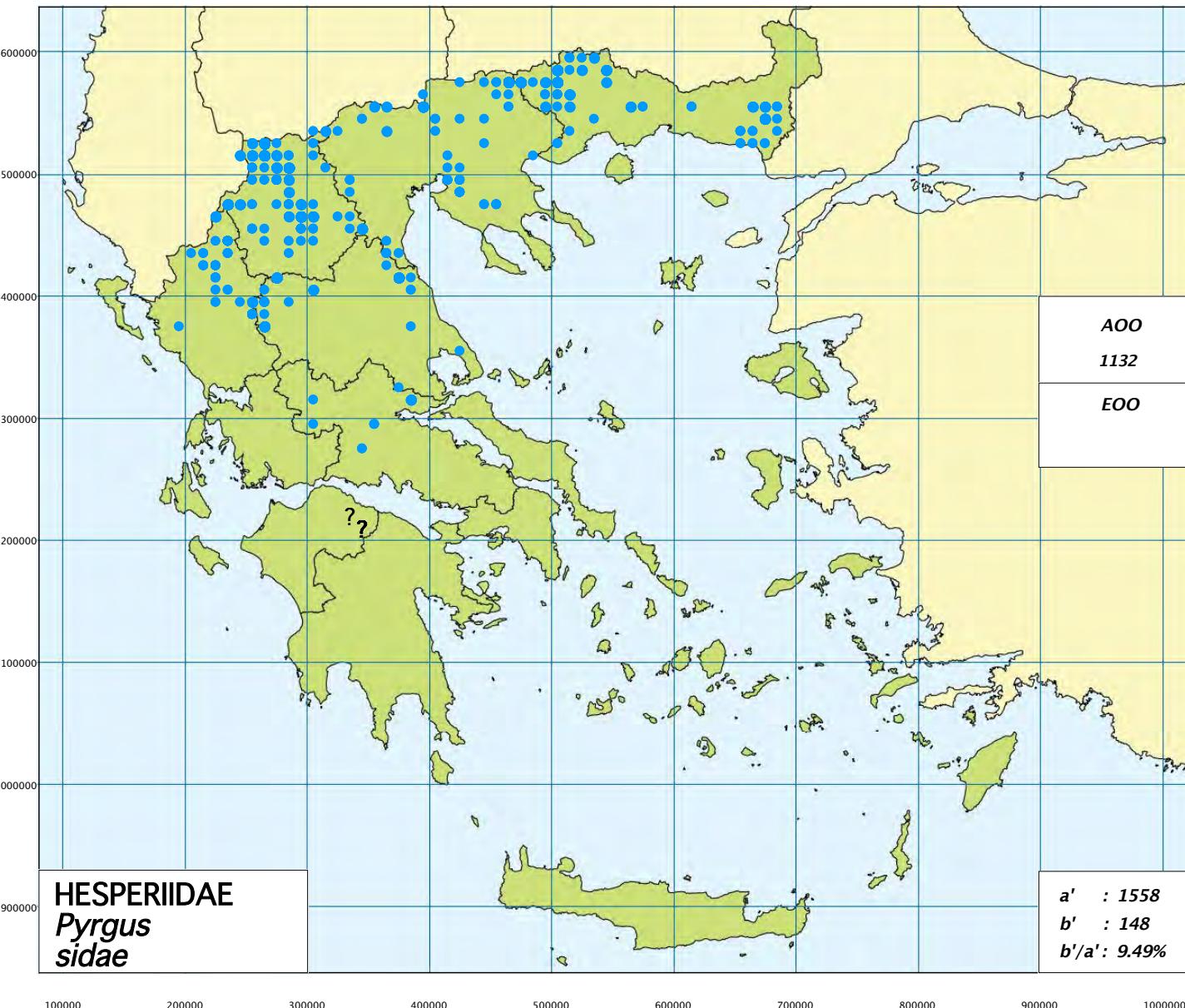


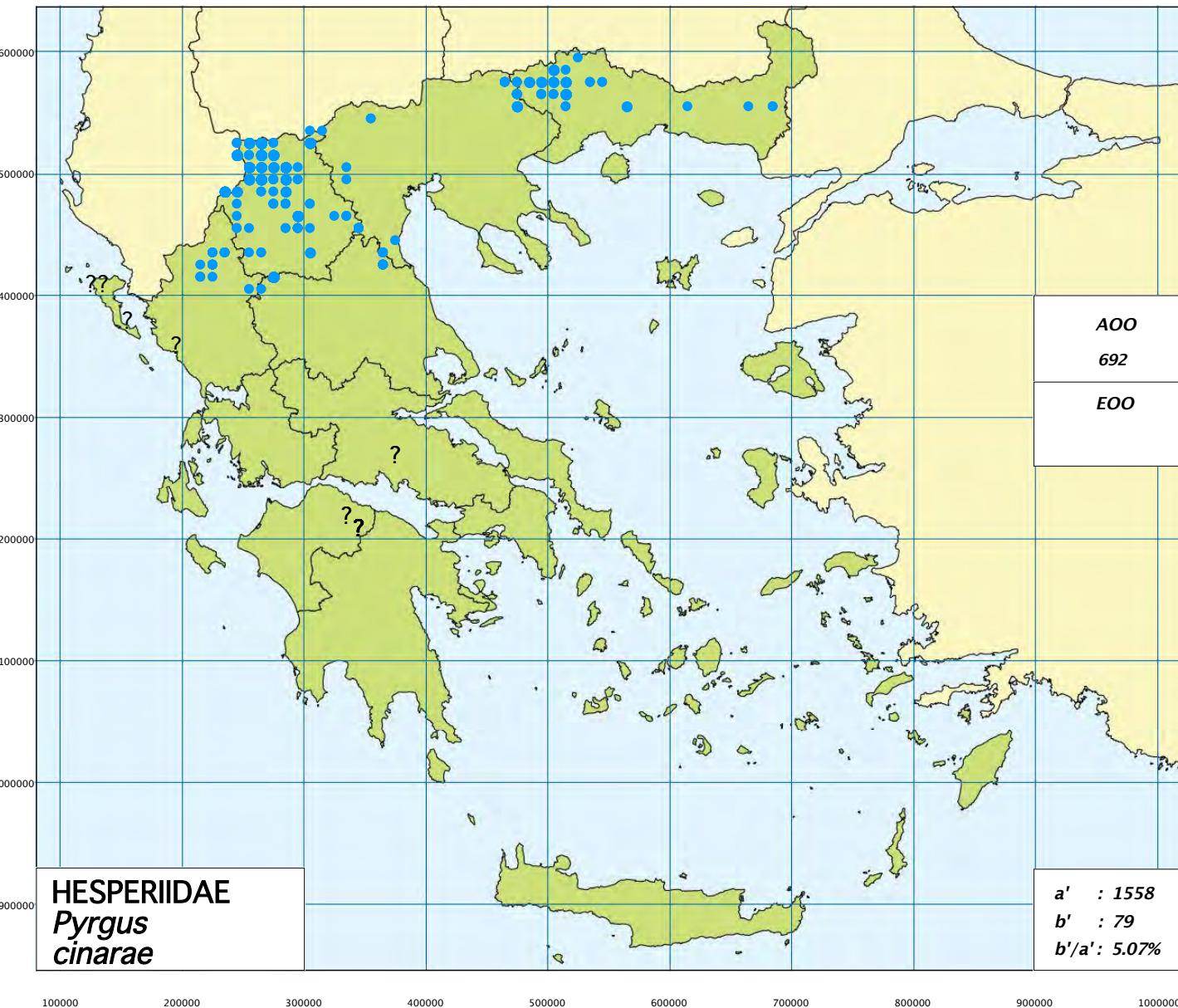


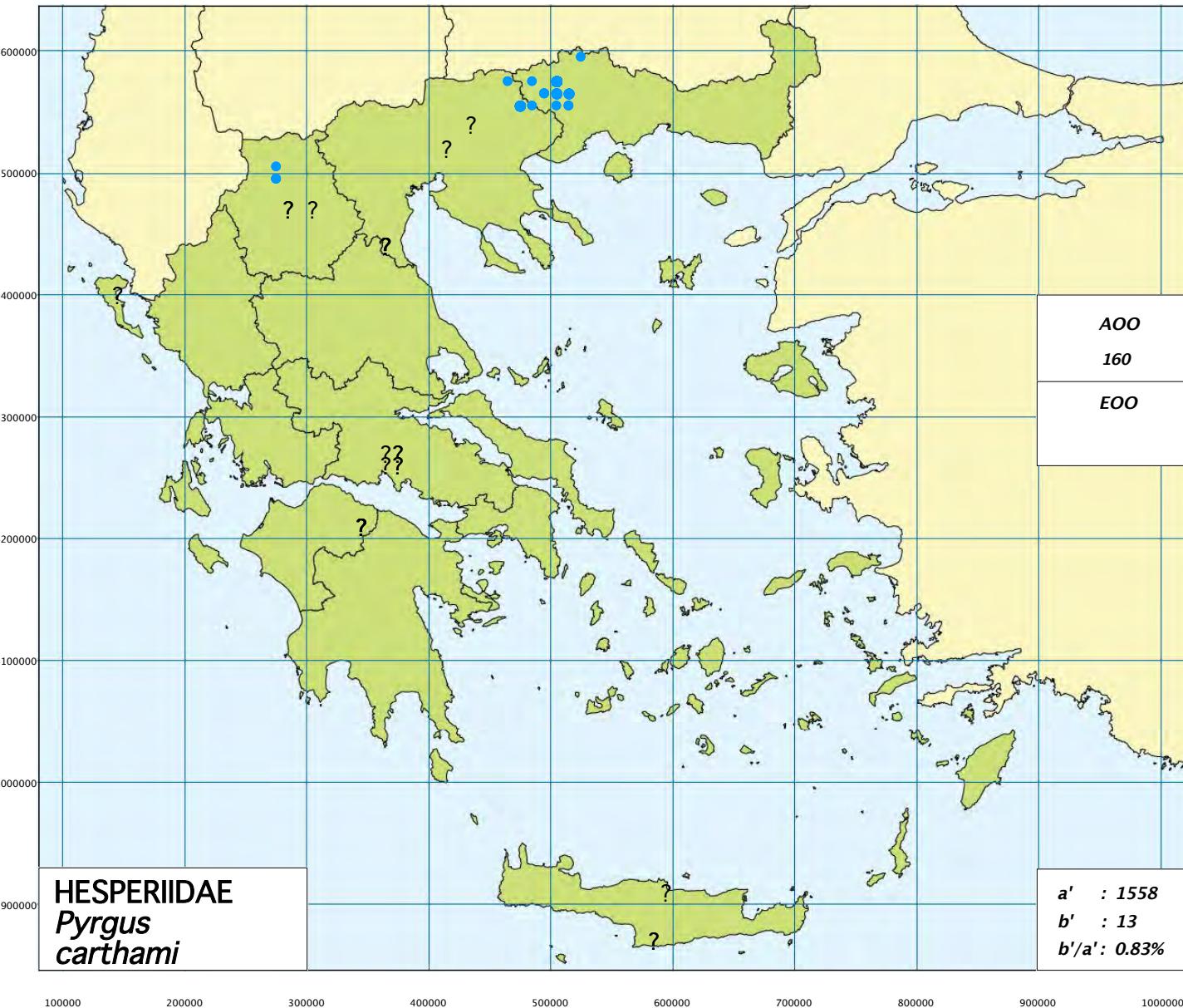


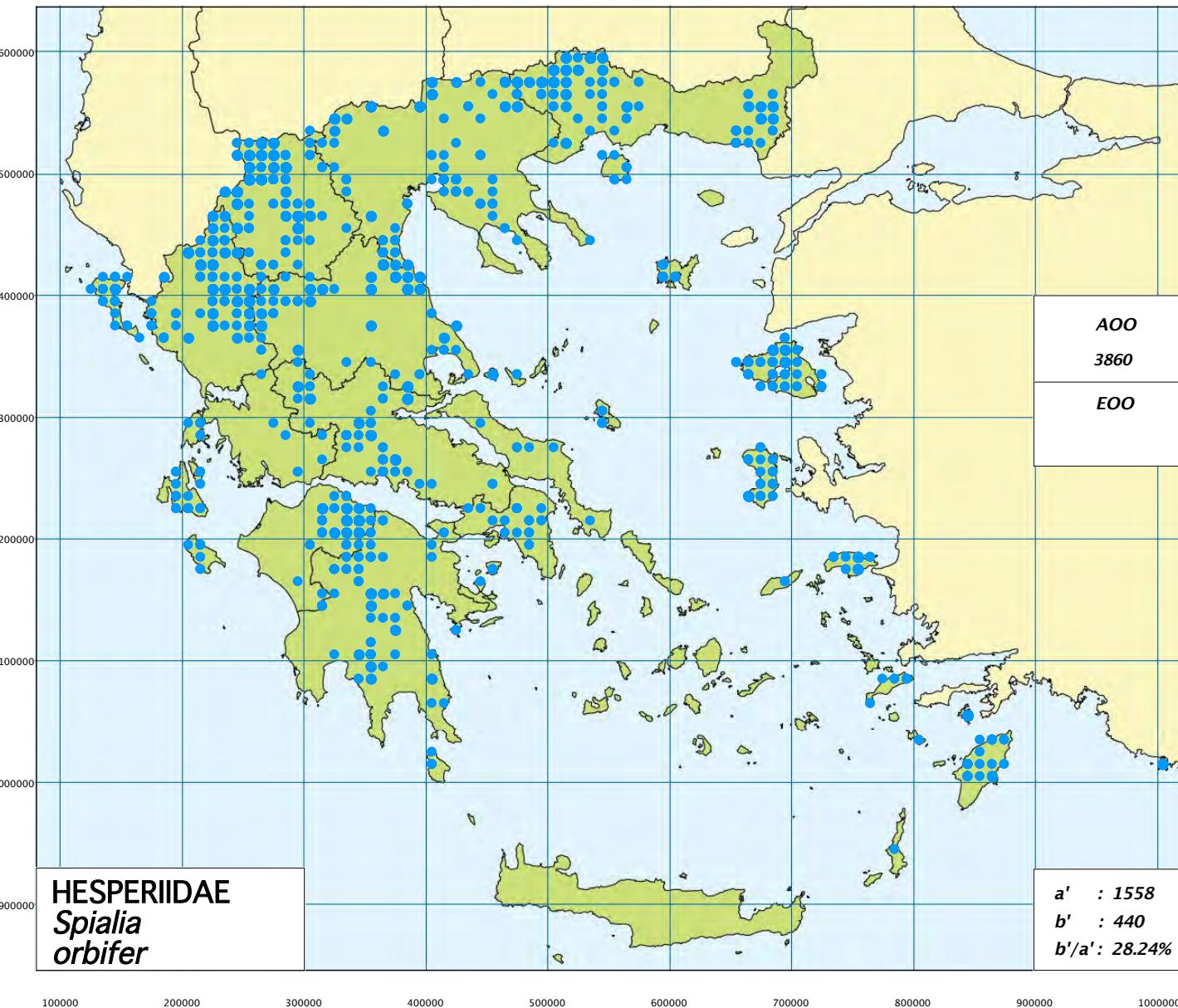


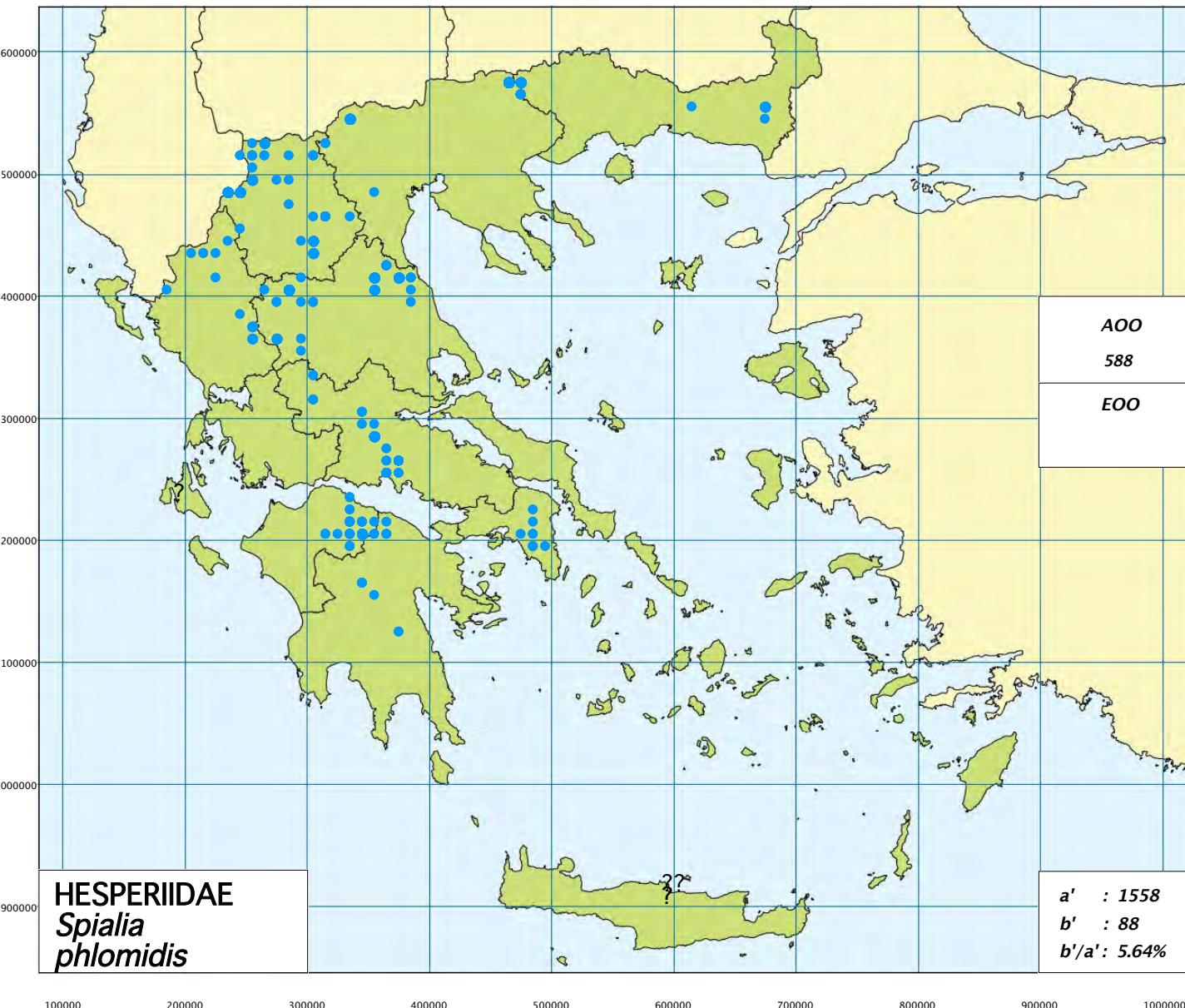




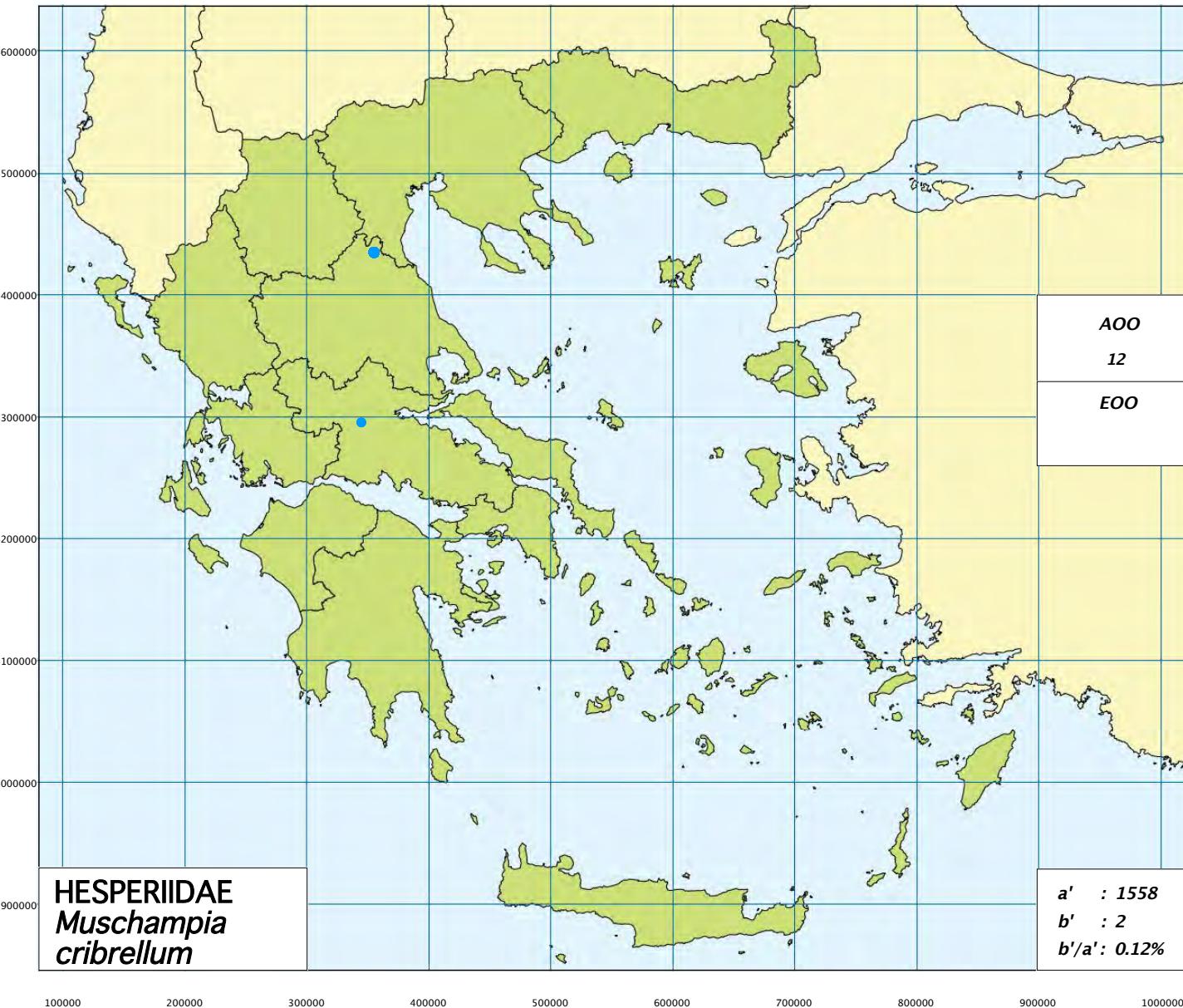


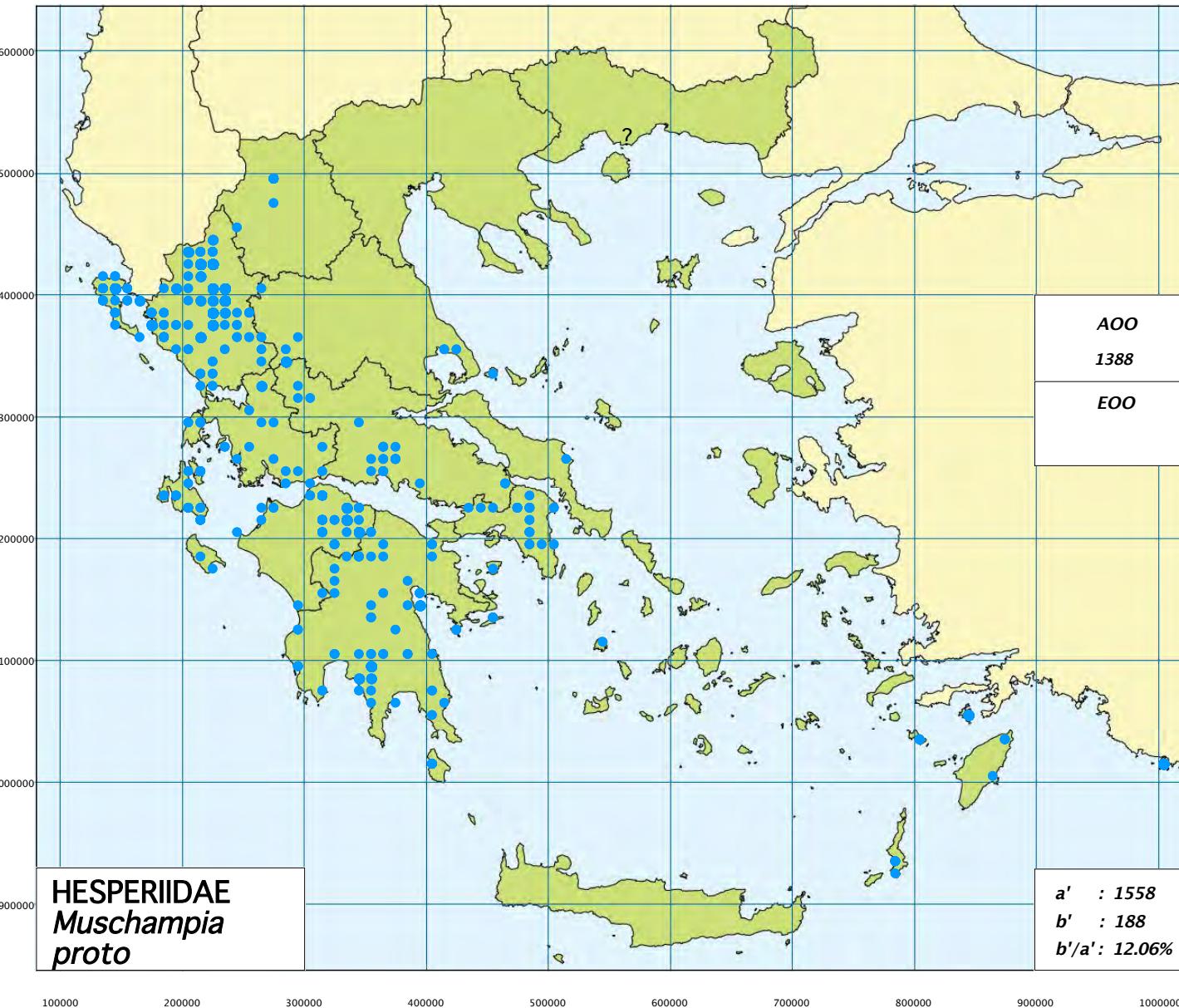


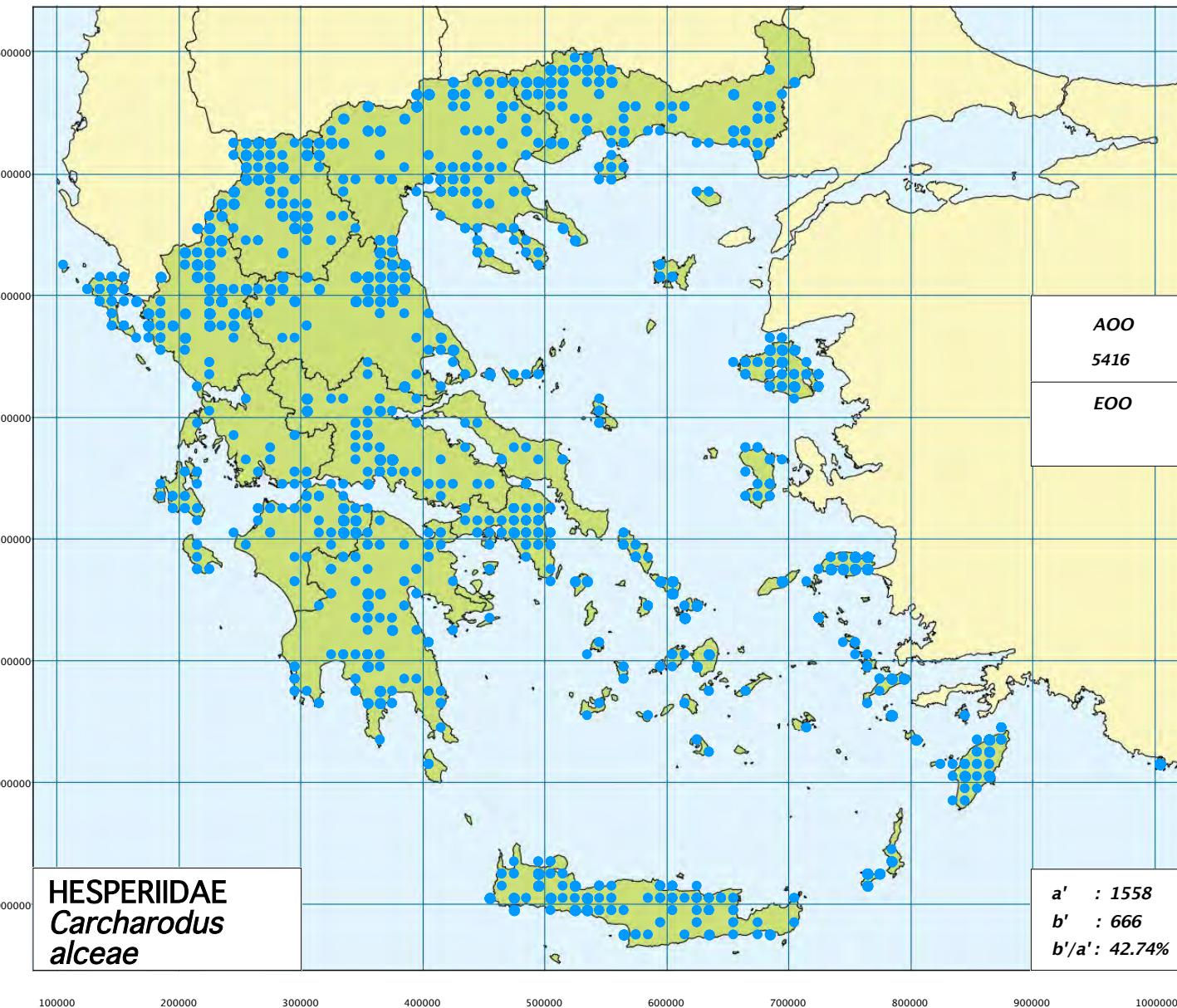




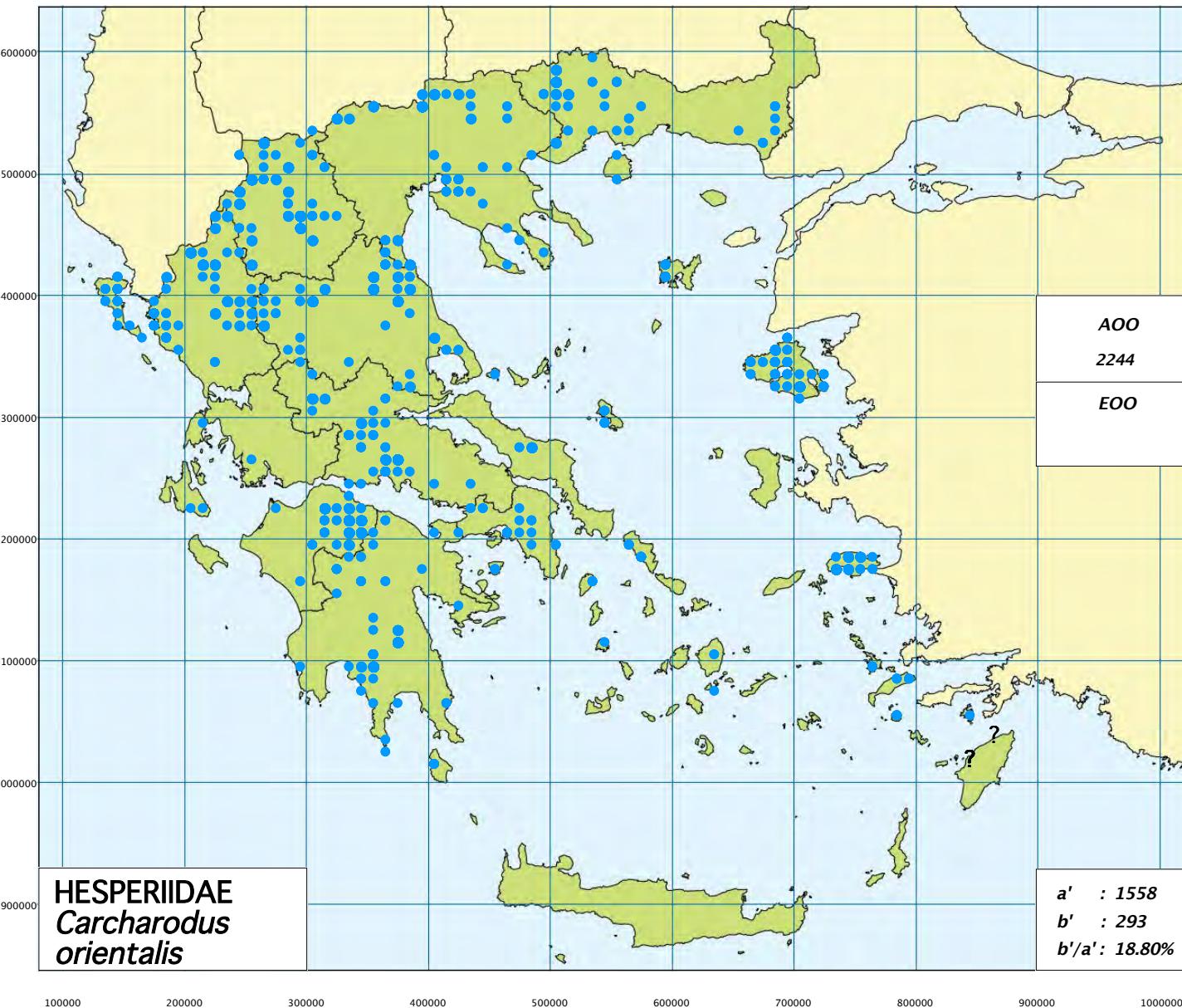


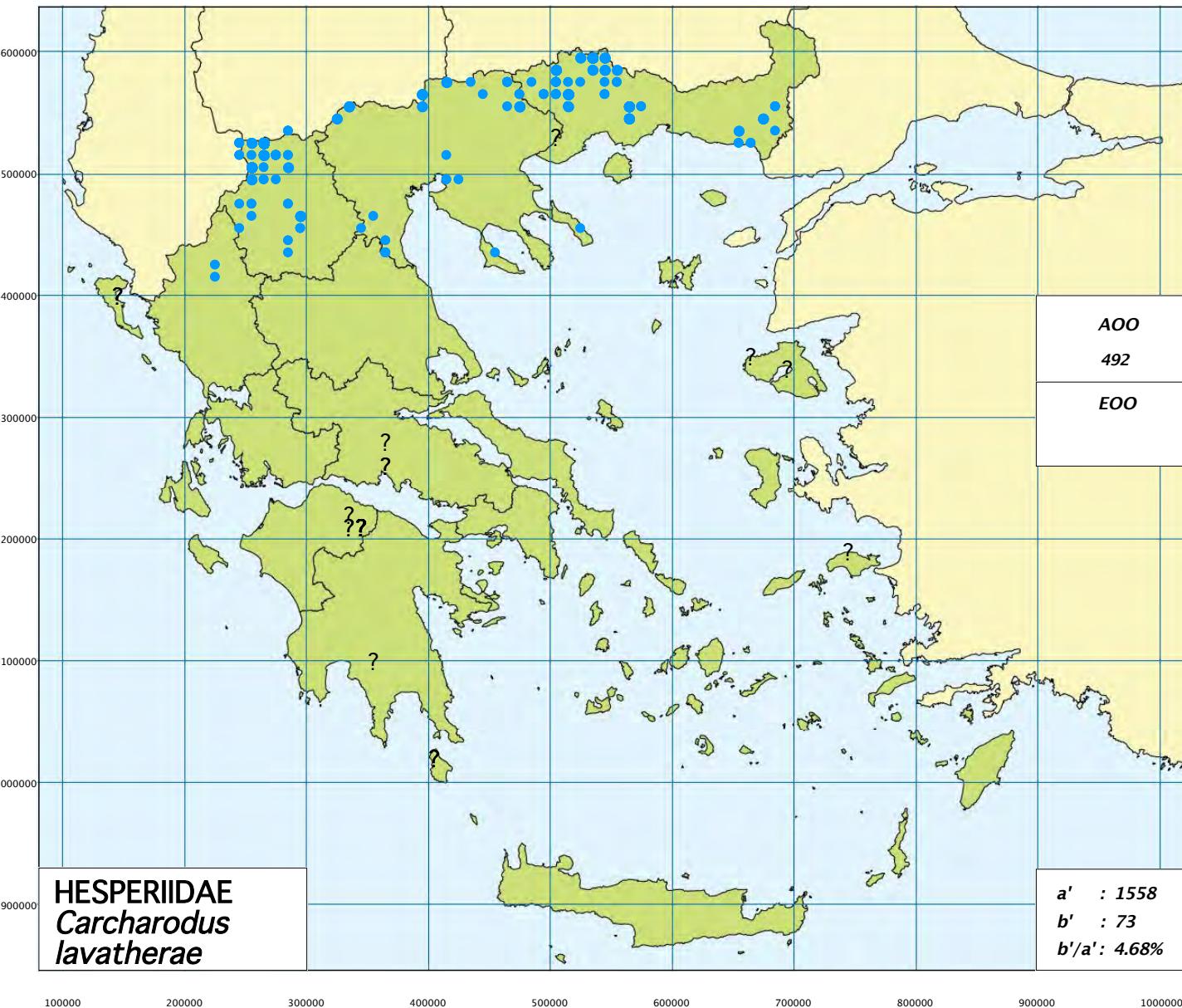


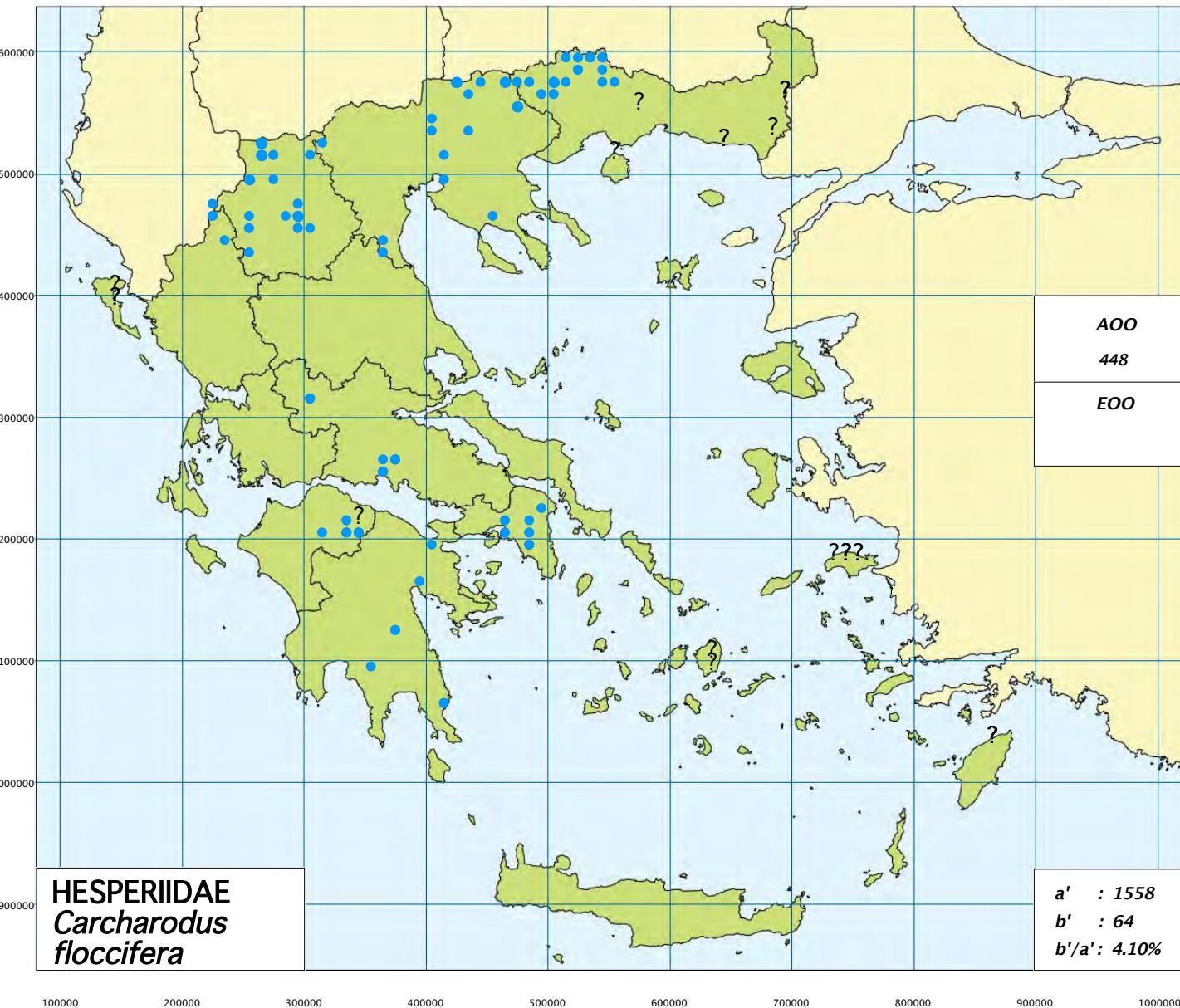


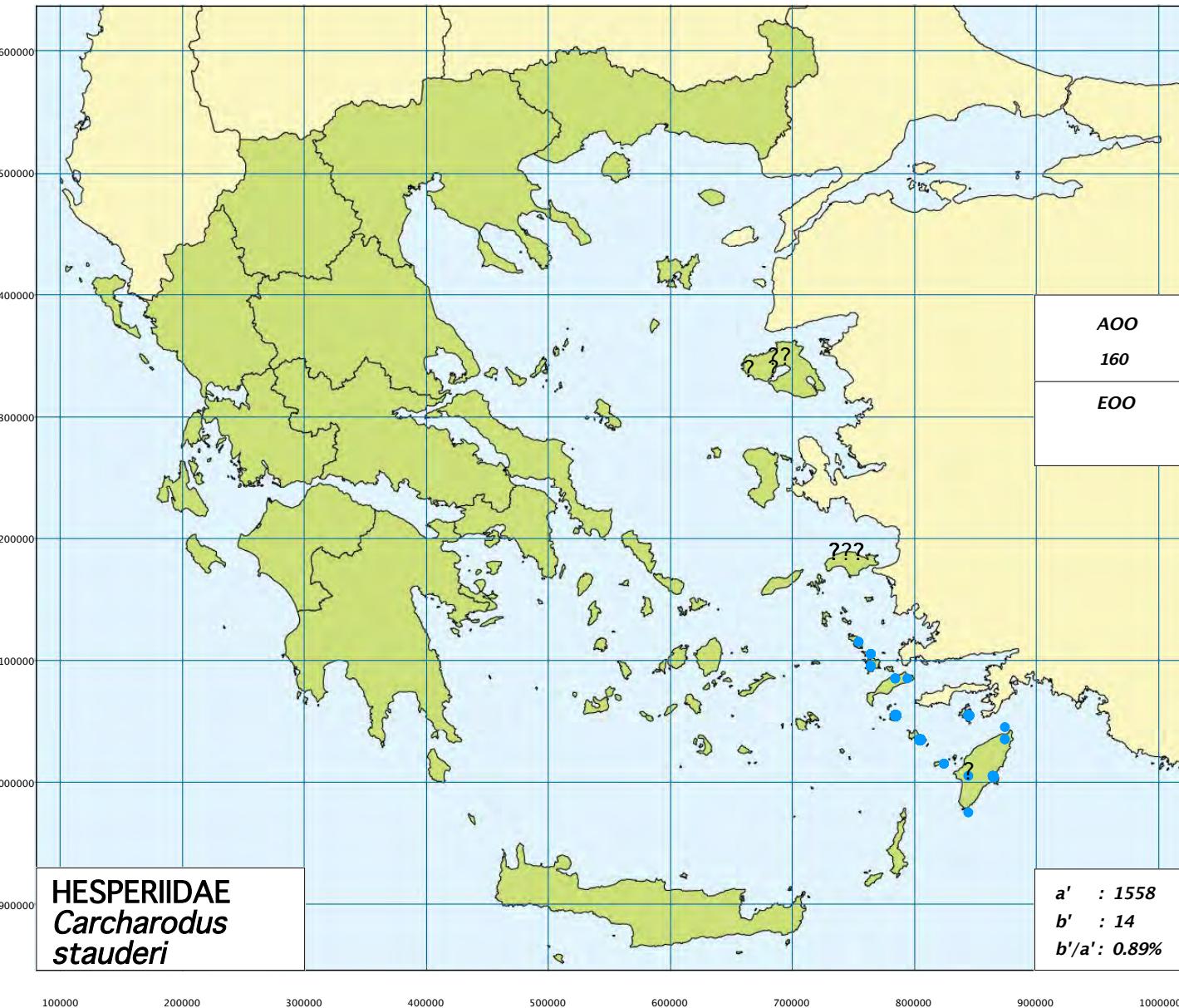


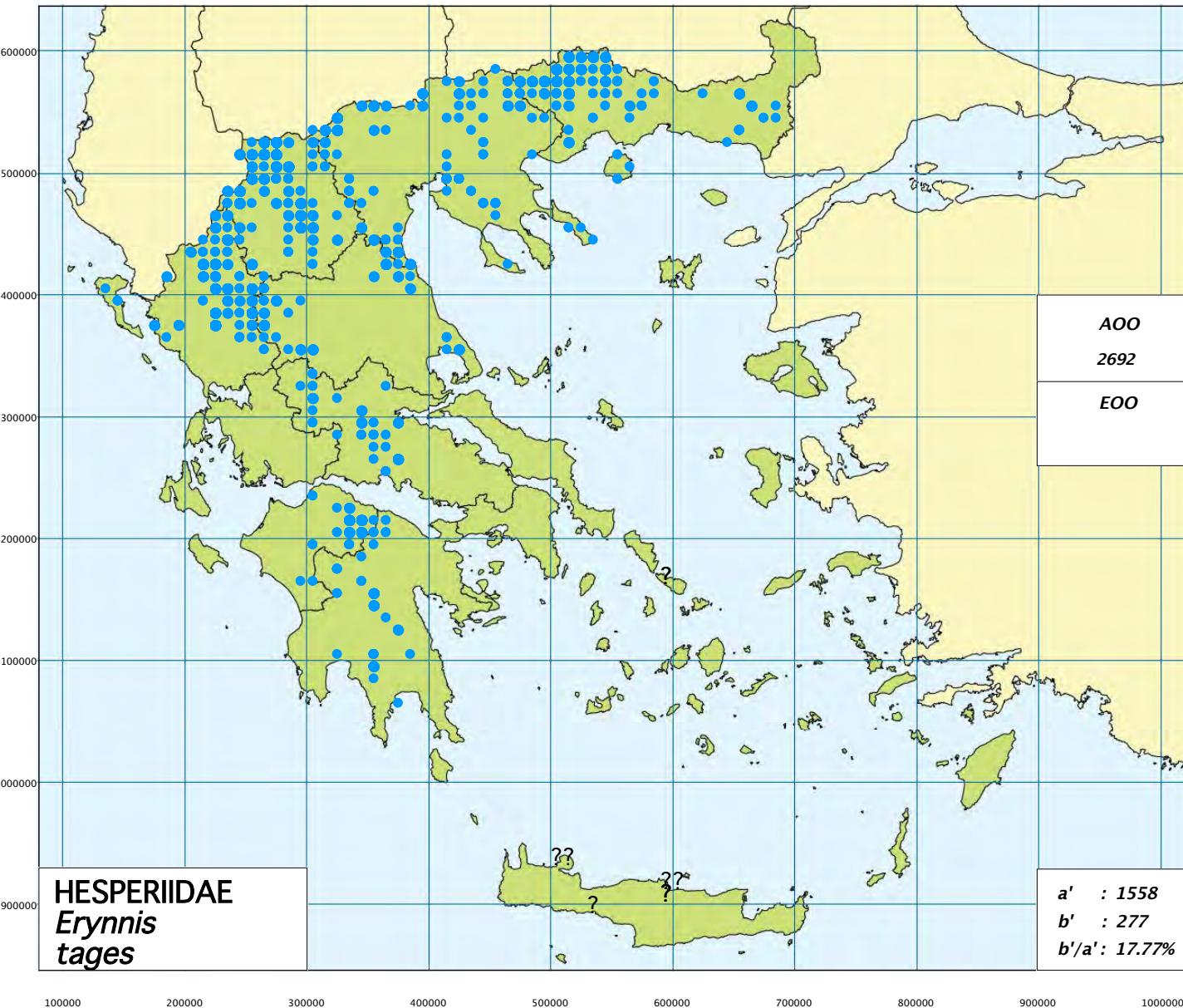
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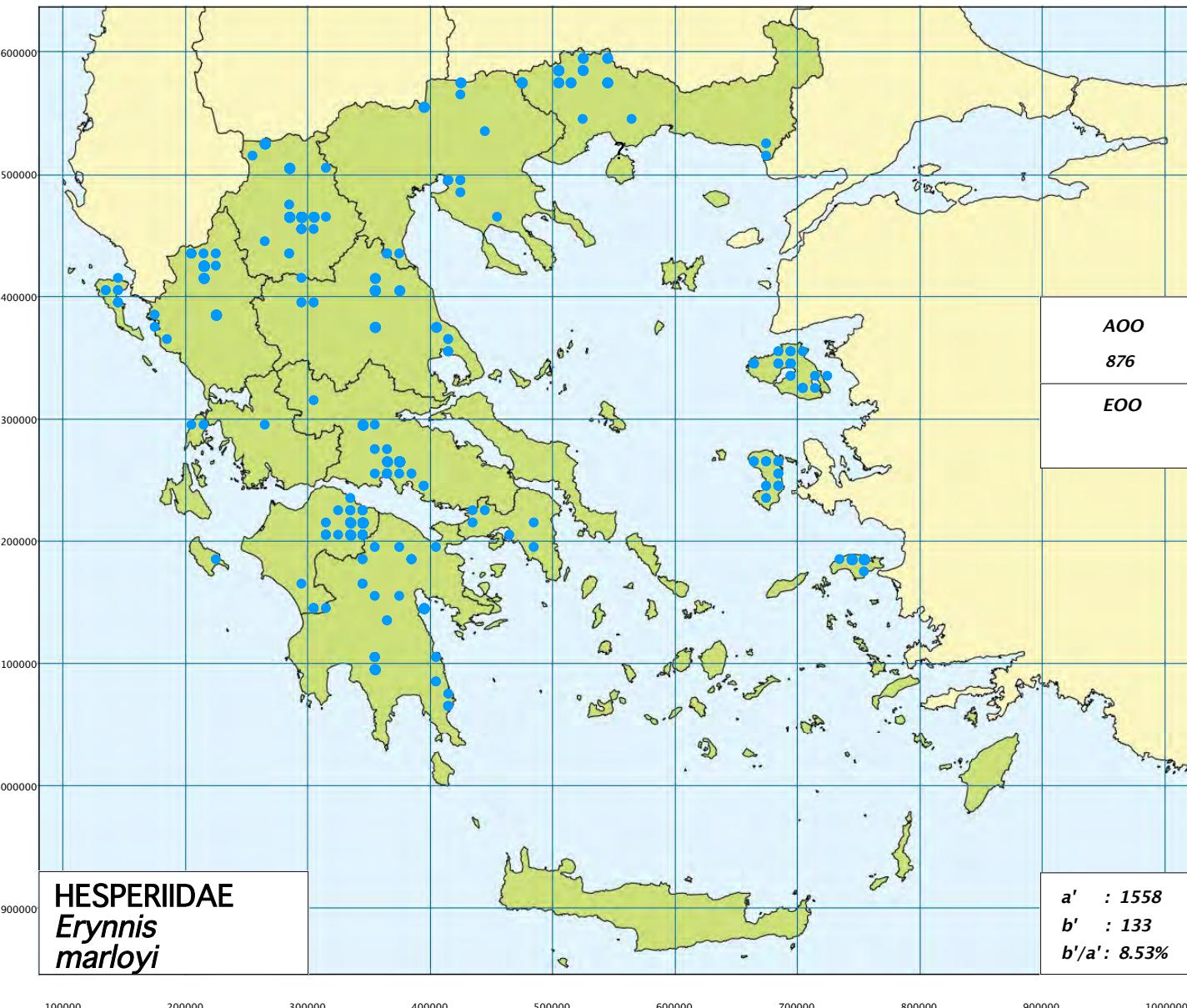


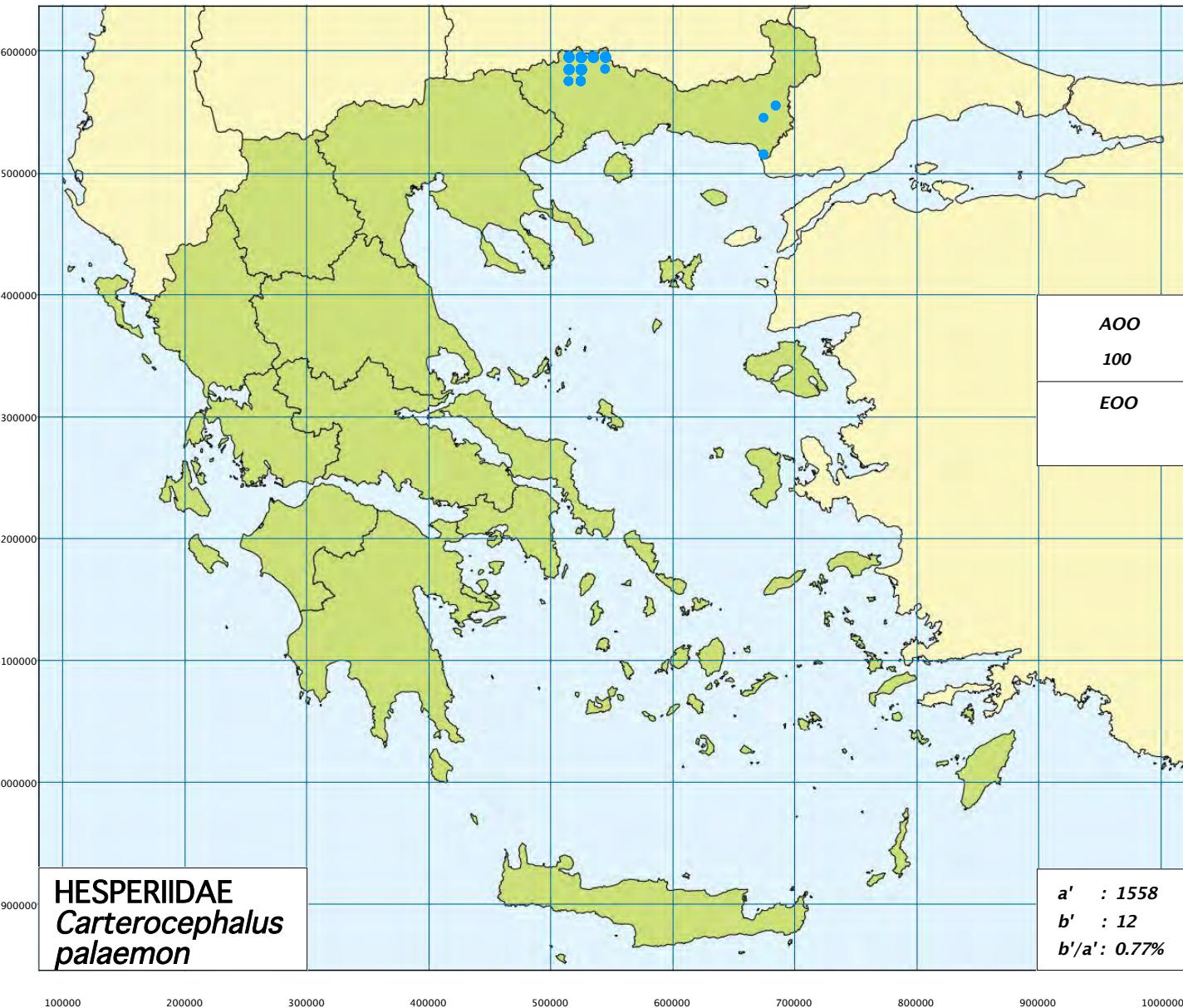


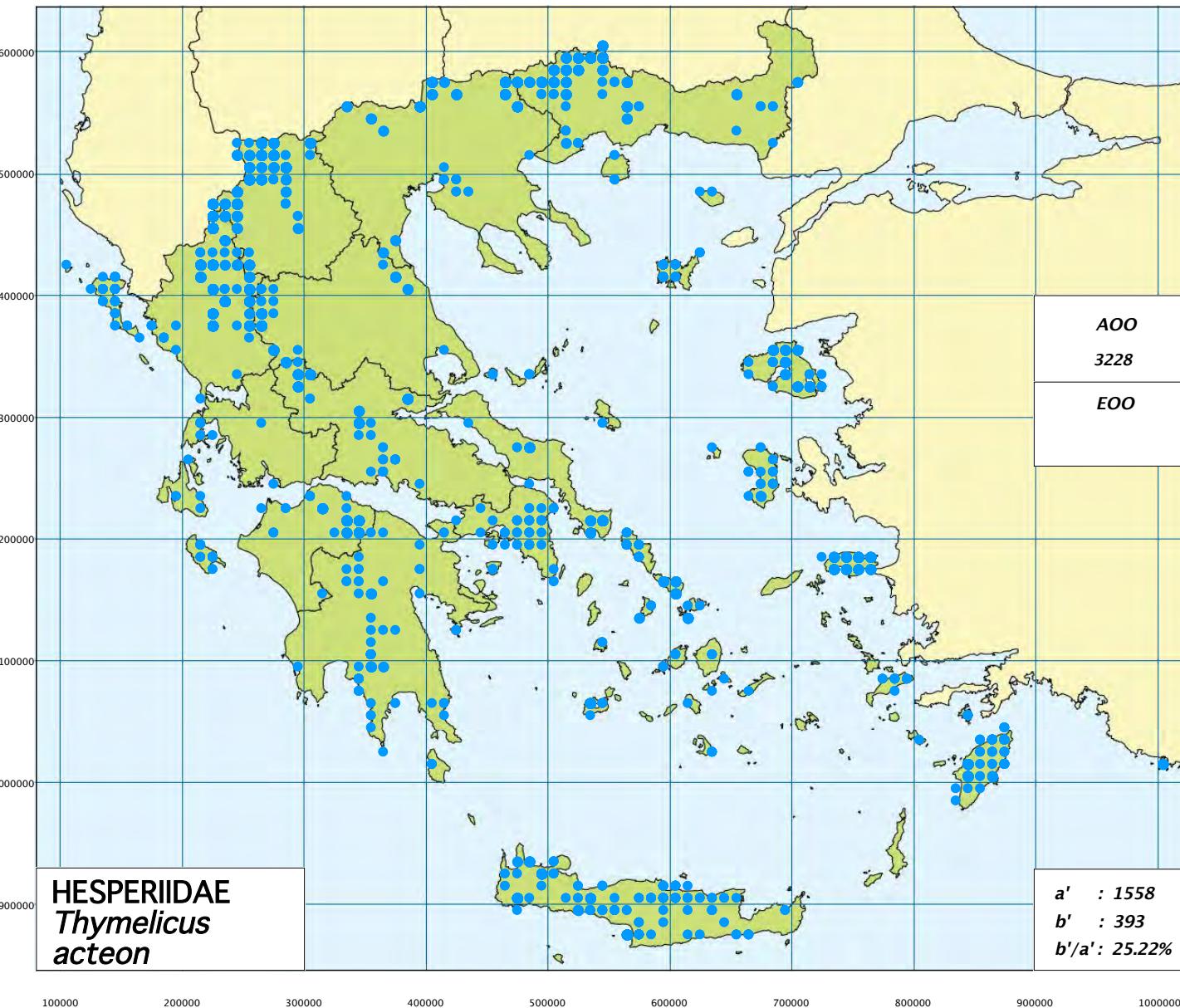


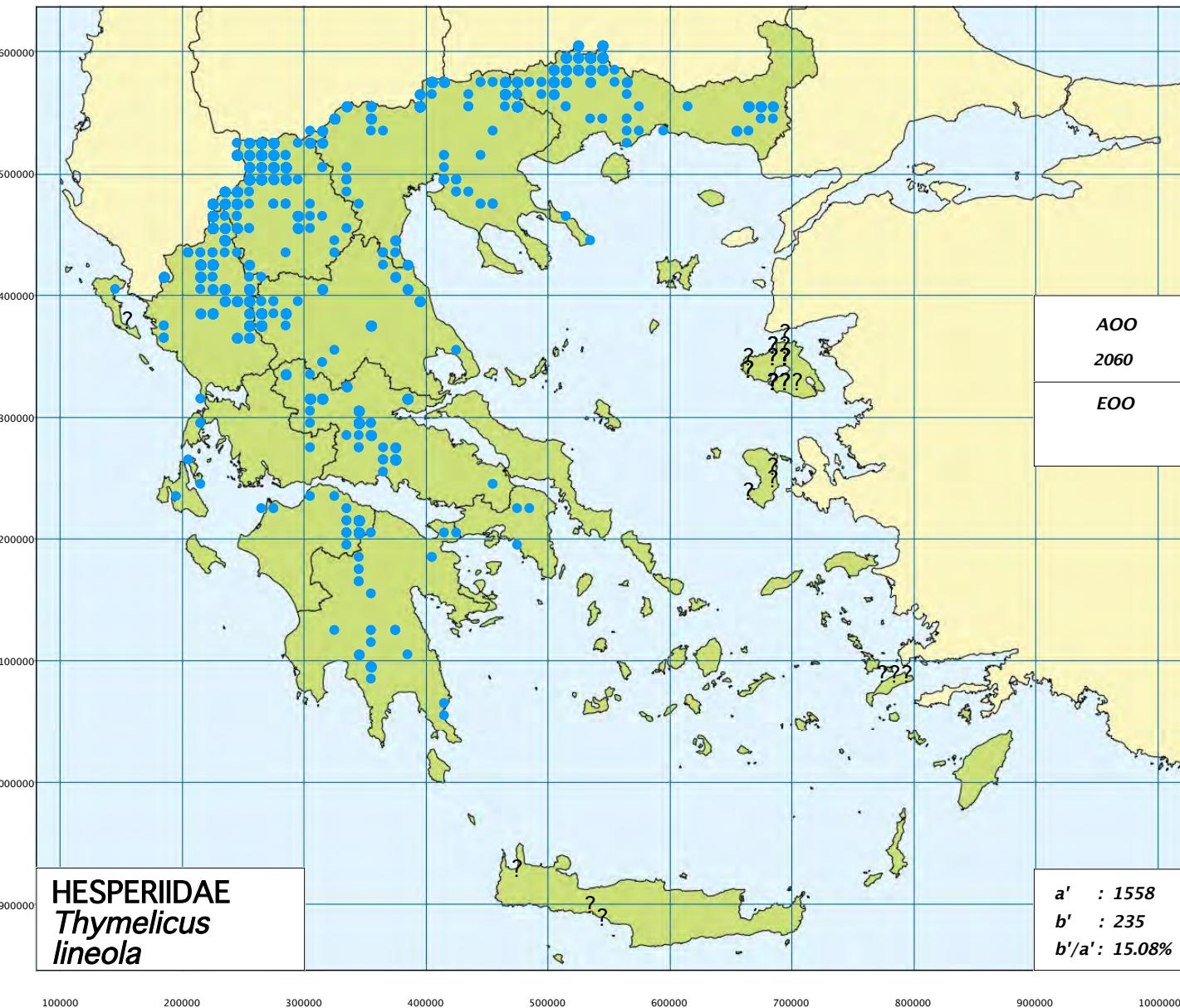


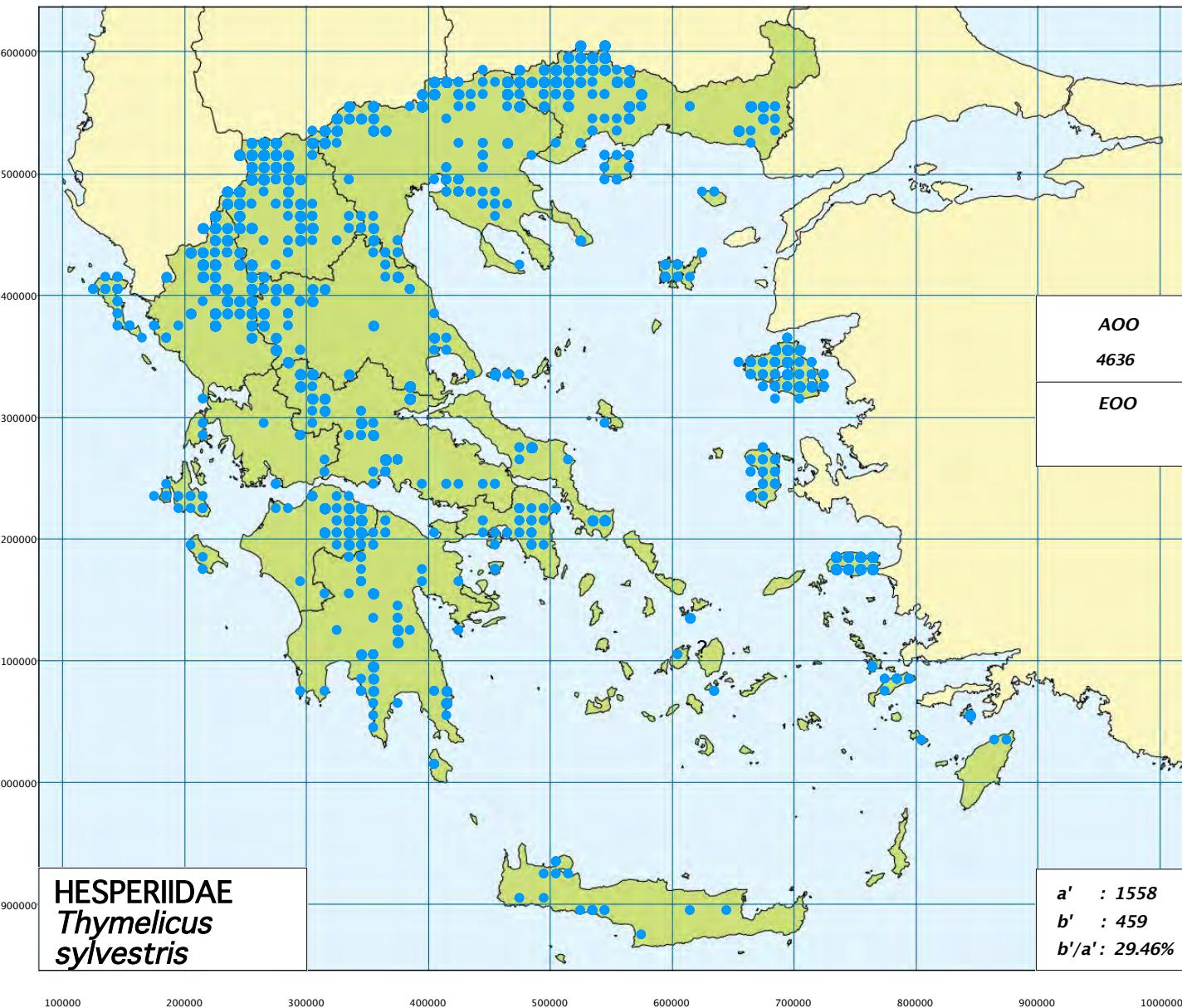


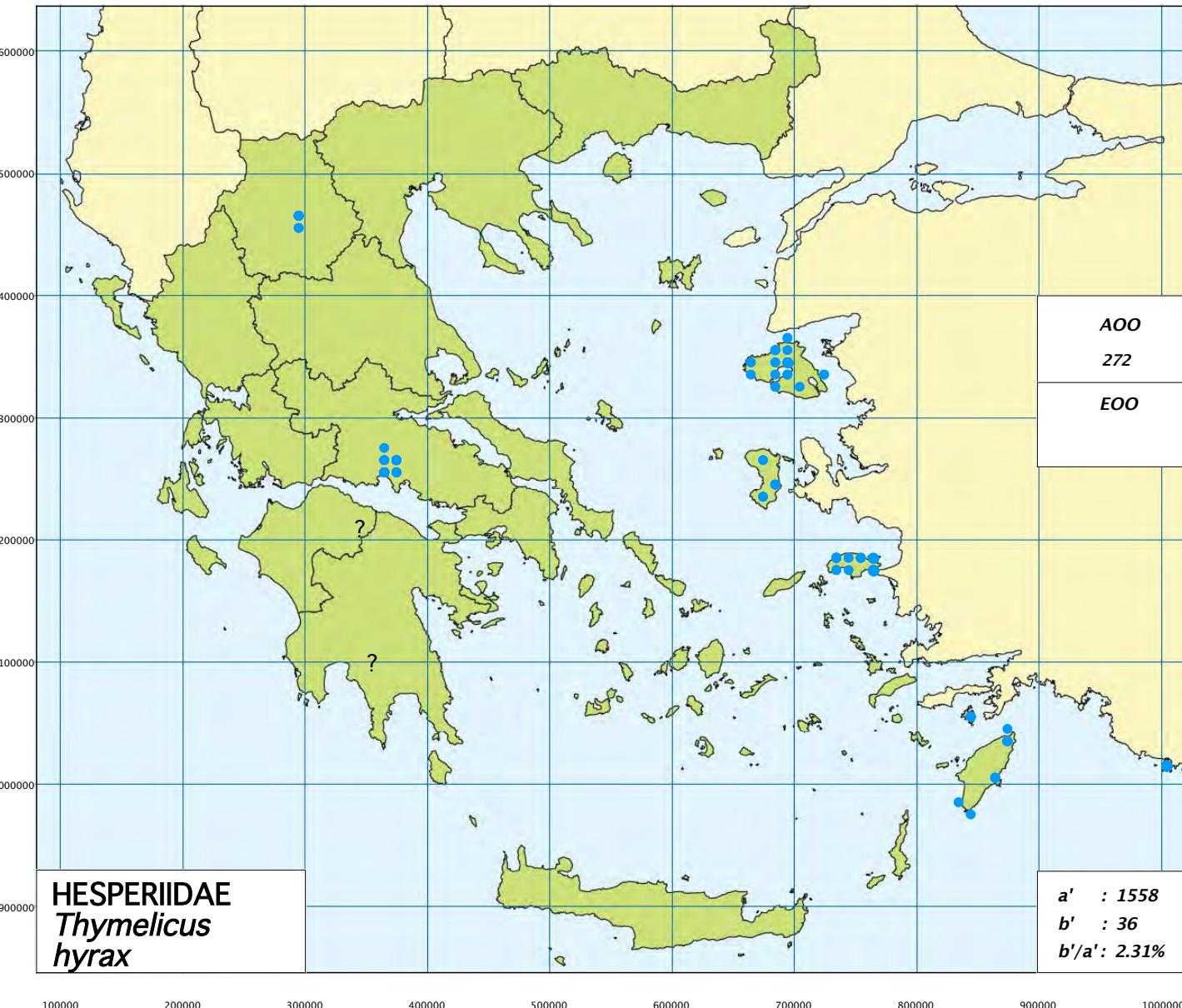


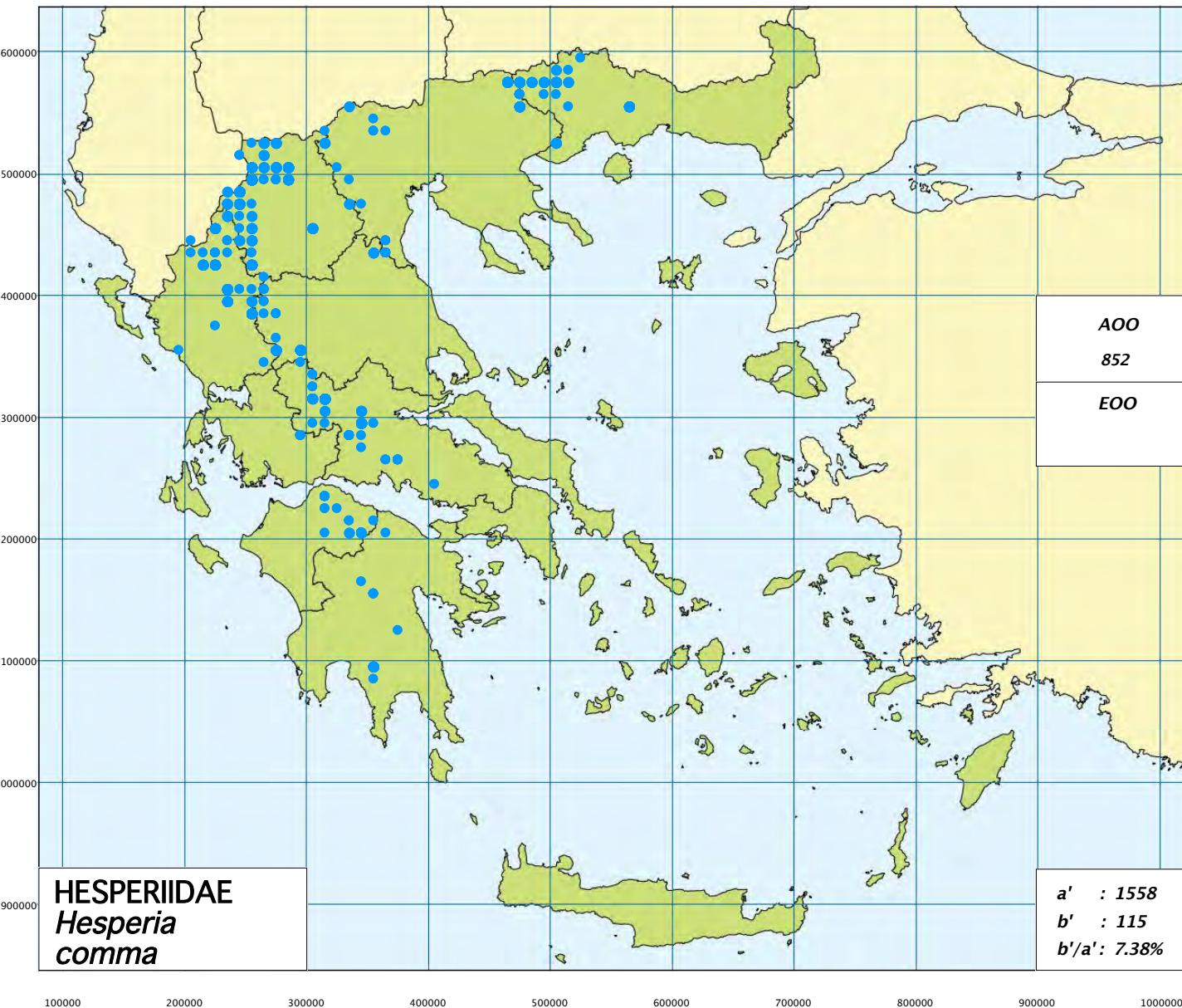


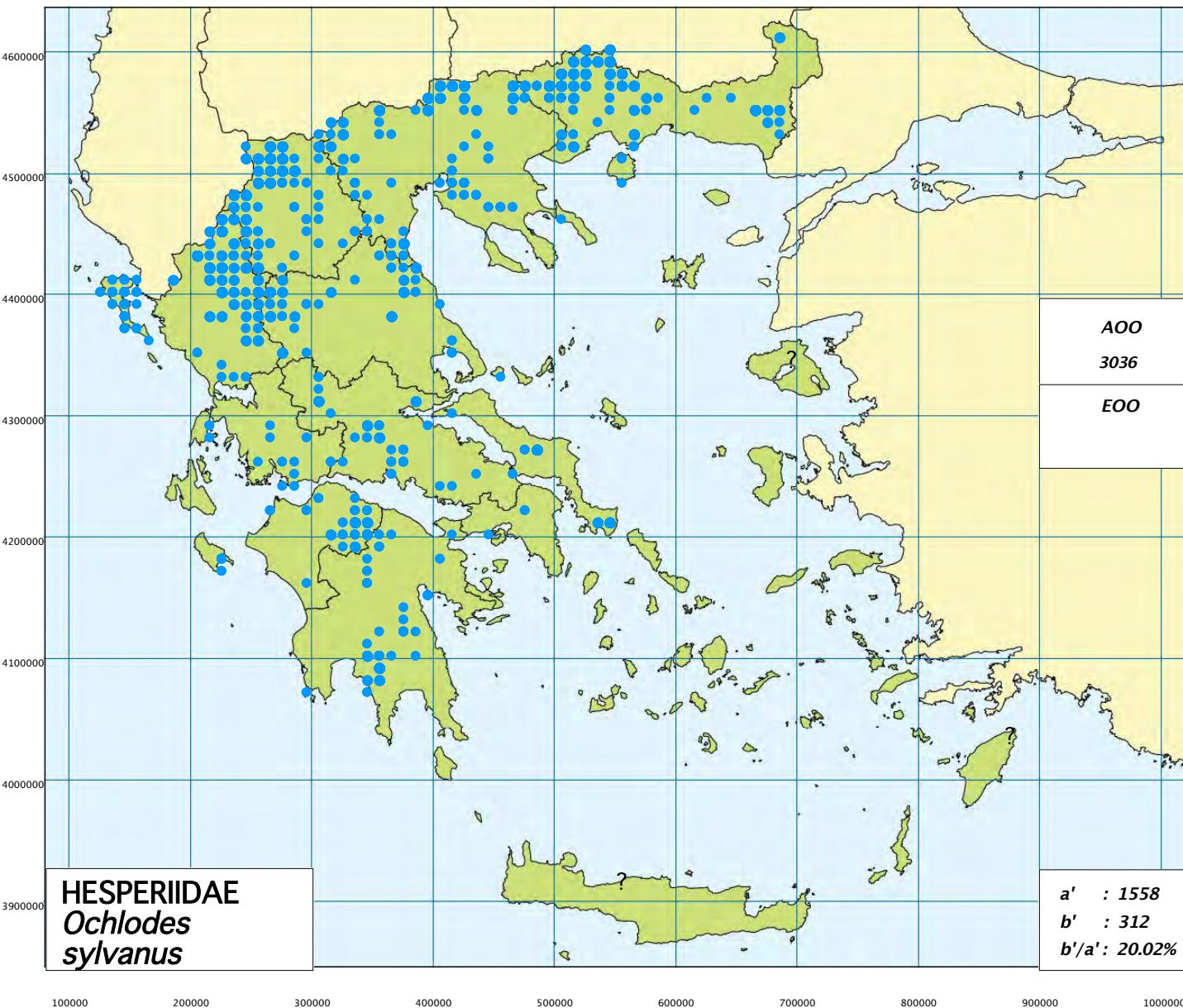


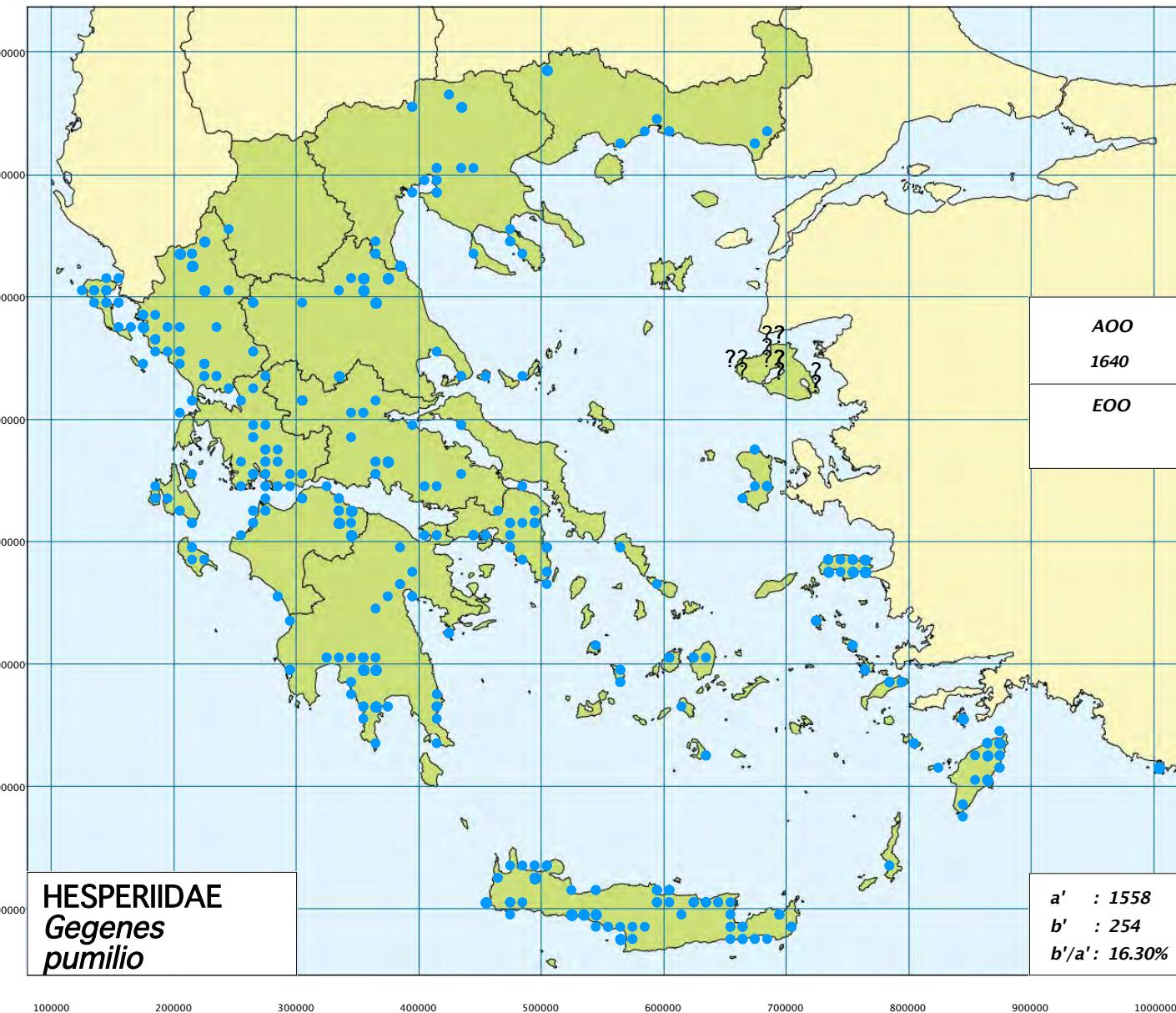












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