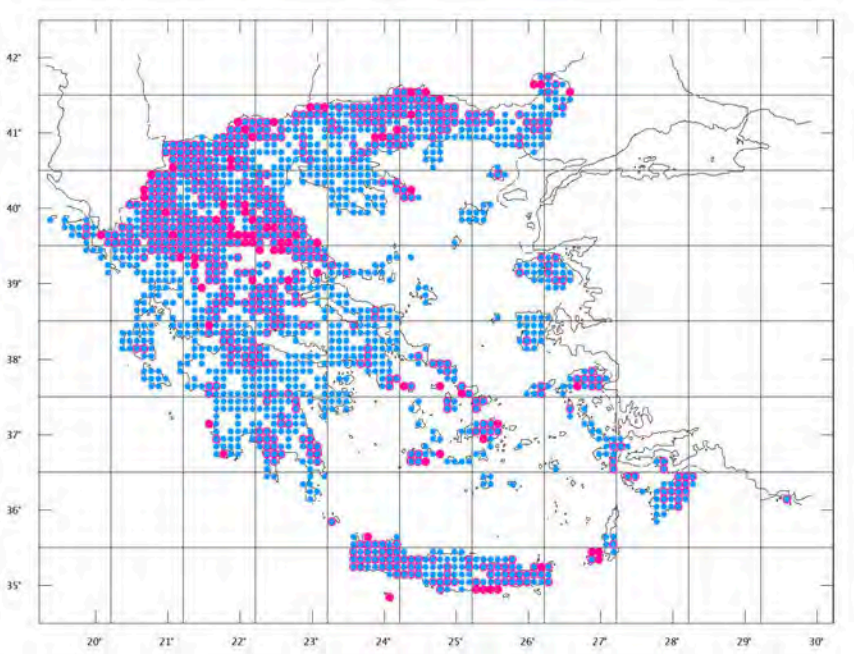
ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ

Μία επικαιροποίηση των Χαρτών, Διαγραμμάτων και Πινάκων 3.3,
του Χάρτη 3.4, του Χάρτη 4.15 και του Χάρτη 4.16
του Λάζαρου Ν. Παμπέρη



THE BUTTERFLIES OF GREECE

An update of distribution Maps, Plates and Diagrams 3.3,
in Map 3.4, in Chart 4.15 and in Chart 4.16
by Lazaros N. Pamperis

2018

ΠΡΟΛΟΓΟΣ

Στις επόμενες σελίδες παρουσιάζονται επικαιροποιημένοι **241** χάρτες εξάπλωσης των ειδών δηλαδή οι Χάρτες, Διαγράμματα και Πίνακες 3.3, ο Χάρτης 3.4 (στην σελίδα 40 της δεύτερης έκδοσης του βιβλίου ΟΙ ΠΕΤΑΛΟΥΔΕΣ ΤΗΣ ΕΛΛΑΔΑΣ, 2009), ο Χάρτης4.15 (στην σελίδα 736) και ο Χάρτης 4.16 (στην σελίδα 738).

Η επικαιροποίηση αυτή αφορά συνολικά 371870 καταγραφές για τις πεταλούδες της Ελλάδας (που συγκεντρώθηκαν μέχρι 31 XII 2017) και συνολικά 1553 τοποθεσίες 6'Χ6', που έχουν εξερευνηθεί, από τις συνολικά 2059 τοποθεσίες 6'Χ6' για όλη την επικράτεια, δηλαδή καλύπτοντας το 75.42% της επικράτειας (αντίστοιχα 265134 καταγραφές, 1260 τοποθεσίες 6'Χ6' και το 61.19%, το 2008).

Αυτή η αύξηση (κατά 28.70%) των καταγραφών οφείλεται στις προσωπικές εξερευνήσεις (από το 2008-2018) αλλά κυρίως στην προσφορά και των προσωπικών καταγραφών για τις πεταλούδες της Ελλάδας από πολλούς από την Ελλάδα και το εξωτερικό. Σε όλους όσους προσέφεραν και εμπιστεύθηκαν τις καταγραφές των, αφιερώνεται το παρόν μαζί με την ευγνωμοσύνη μου.

Στη δεύτερη έκδοση το 2009, παρουσιάστηκαν 234 είδη και το *Cacyreus marshalli.* Στα 235 αυτά είδη πρέπει να προστεθούν τα δύο νέα για την Ελλάδα είδη: *Melitaea syriaca* και *Boloria selene.* Κατά την διάρκεια του έτους 2017 προστέθηκαν στις πεταλούδες της Ελλάδας το είδος *Polyommatus timfristos* (νέο στην επιστήμη) και επίσης το σπάνιο είδος *Muschampia cribrellum*. Τώρα στην Ελλάδα υπάρχουν **239** είδη πεταλούδων.

Δύο επί πλέον χάρτες για τα είδη *Thaleropis ionia* (στο Καστελλόριζο) και *Deudorix livia (στην Αττική)* παρουσιάζονται, αν και δεν έχει επιβεβαιωθεί έως σήμερα η παρουσία των στην Ελλάδα .

Στίς ωρισμένες από τις 247 σελίδες παρουσιάζονται, κατά περίπτωση εάν απαιτείται, και πρόσθετα διευκρινιστικά σχόλια.

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

Λάρισα 15 Μαίου 2018

Λάζαρος Ν. Παμπέρης

PREFACE

An update of distribution Maps, Plates and Diagrams 3.3, in Map 3.4 are presented (in page 40 of the second edition of the book THE BUTTERFLIES OF GREECE, 2009), in Chart 4.15 (in page 736) and in Chart 4.16 (in page 738).

This update is made after in total 371870 records for the butterflies of Greece (till 31 XII 2017) for a total number of 1553 investigated localities 6'X6; this is the 75.42% of territory of Greece, a part of all 2059 localities 6'X6' all over Greece (compare to 265134 records, 1260 localities 6'X6' and 61.19% in 2008).

This increase (of 28.70%) in records is made after personal investigations (from 2008-2018) and mainly after generous offer from so many recorders for the butterflies of Greece, from Greece and abroad. This update is dedicated to all those who send and trust to me their records; to all I express my gratitude.

In the second edition of the book 234 species were presented and additionaly the species *Cacyreus marshalli*. Two new (for Greece) species should be added to these 235 species: *Melitaea syriaca* and *Boloria selene*. During 2017 new discoveries for the butterflies of Greece were made: species *Polyommatus timfristos* (new in Science) and also the rare species *Muschampia cribrellum*. The total number of species of the butterflies of Greece is now up to **239.**

Two more Maps are presented for *Thaleropis ionia* (in Kastellorizo island) and Deudorix livia (in Attika); however the presence of this two species is not confirmed yet.

Additional comments are noted in some of the 247 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 15 May 2018
Lazaros N. Pamperis

Map 3.4 (update 2018)
Investigated localities for all species

Χάρτης 3.4 (επικαιροποίηση 2018)
Οι εξερευνηθείσες τοποθεσίες για όλα τα είδη

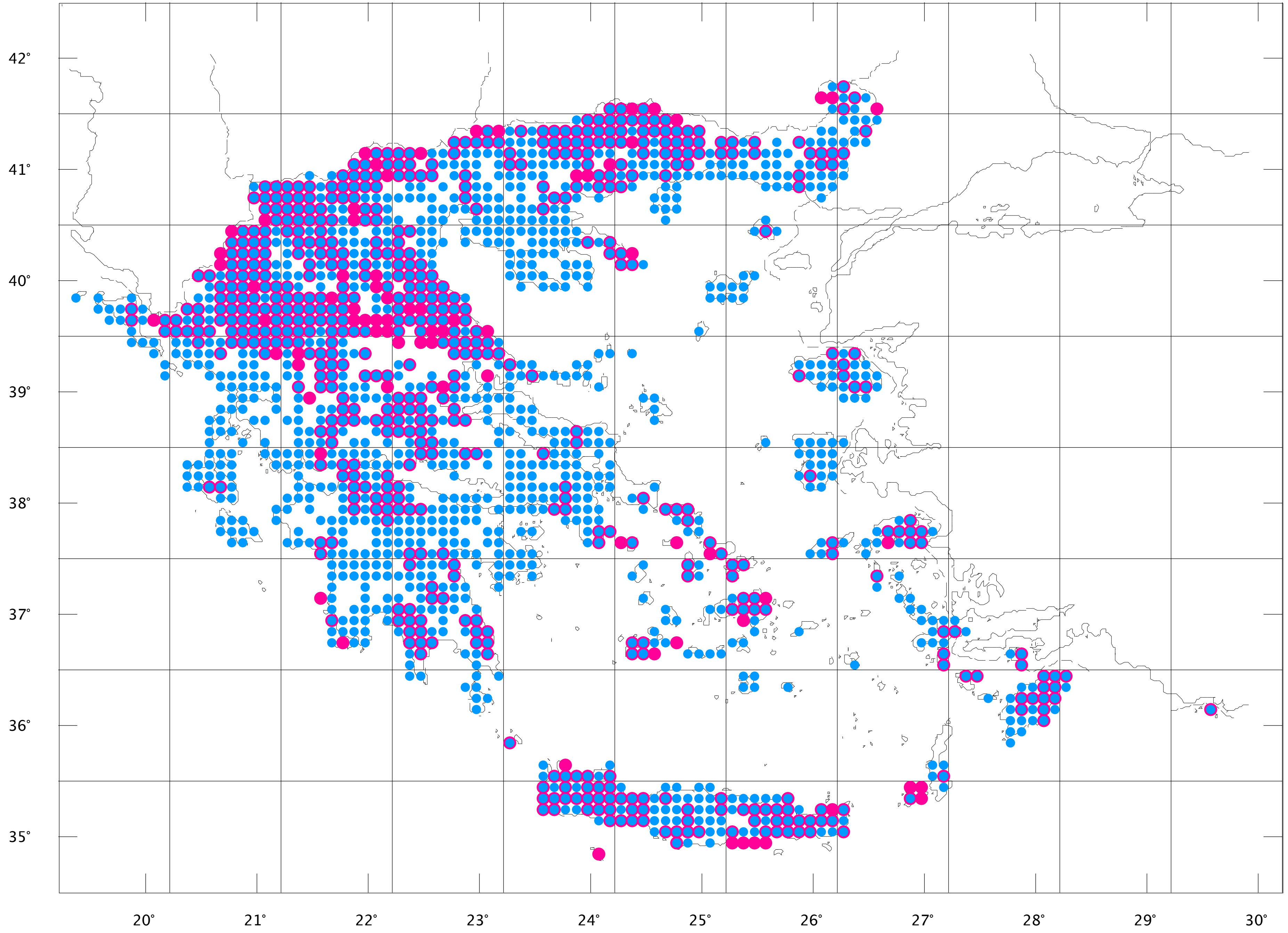


Chart 4.15 (update 2018)
Total number of species for all 1553 localities 6'X6'

Χάρτης 4.15 (επικαιροποίηση 2018)
Συνολικός αριθμός των ειδών για όλες τις 1553 τοποθεσίες 6'X6'

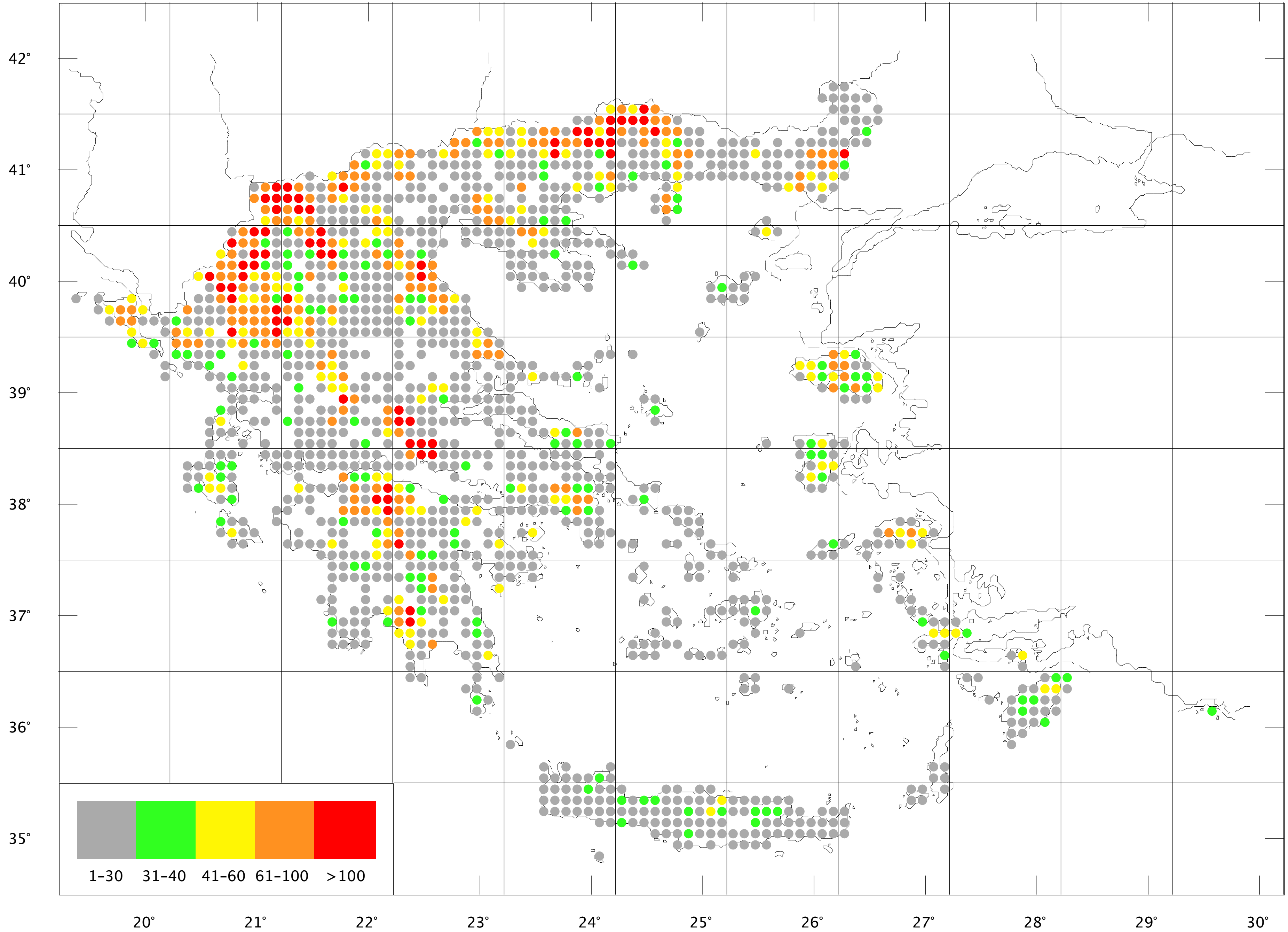
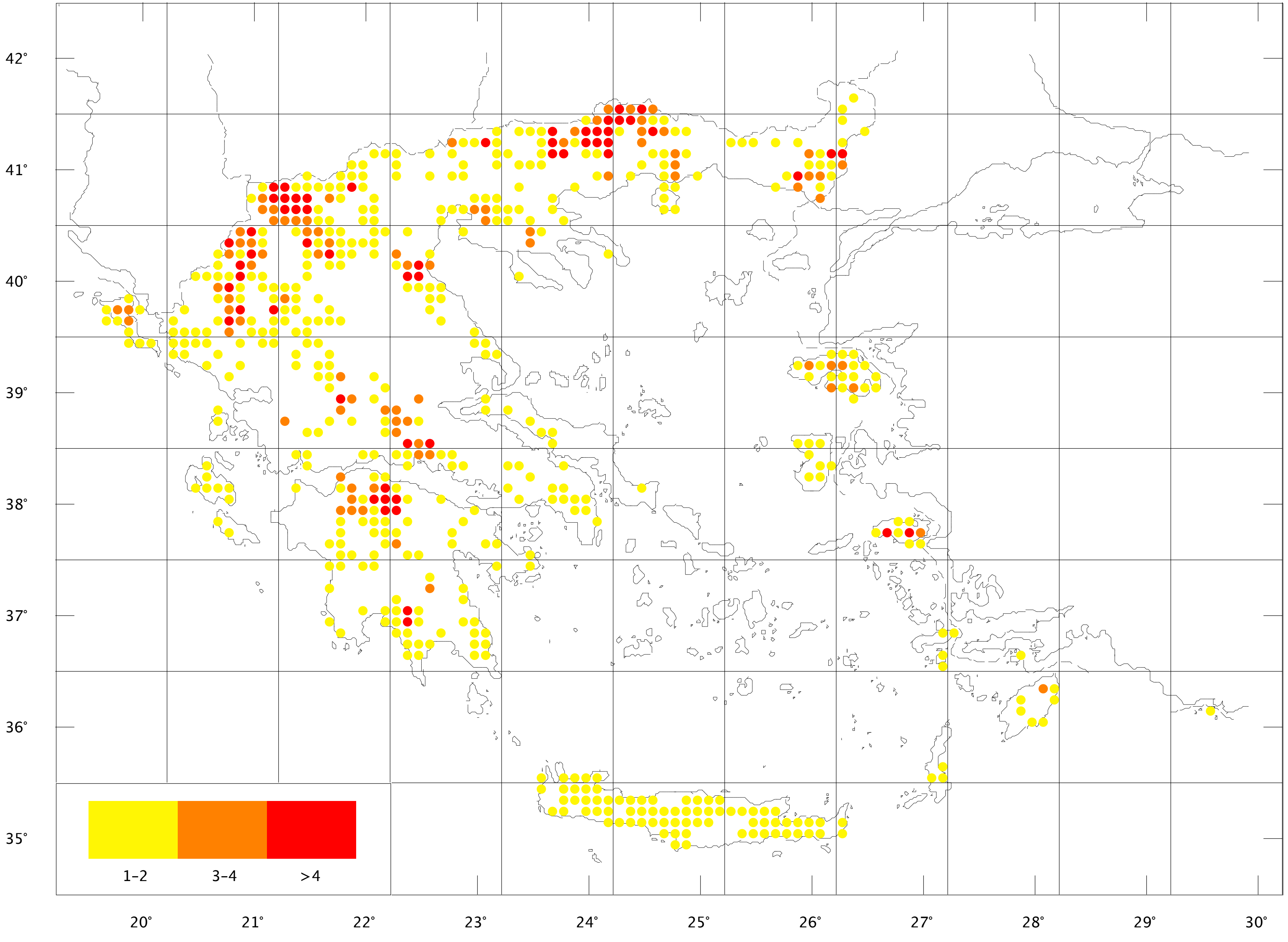
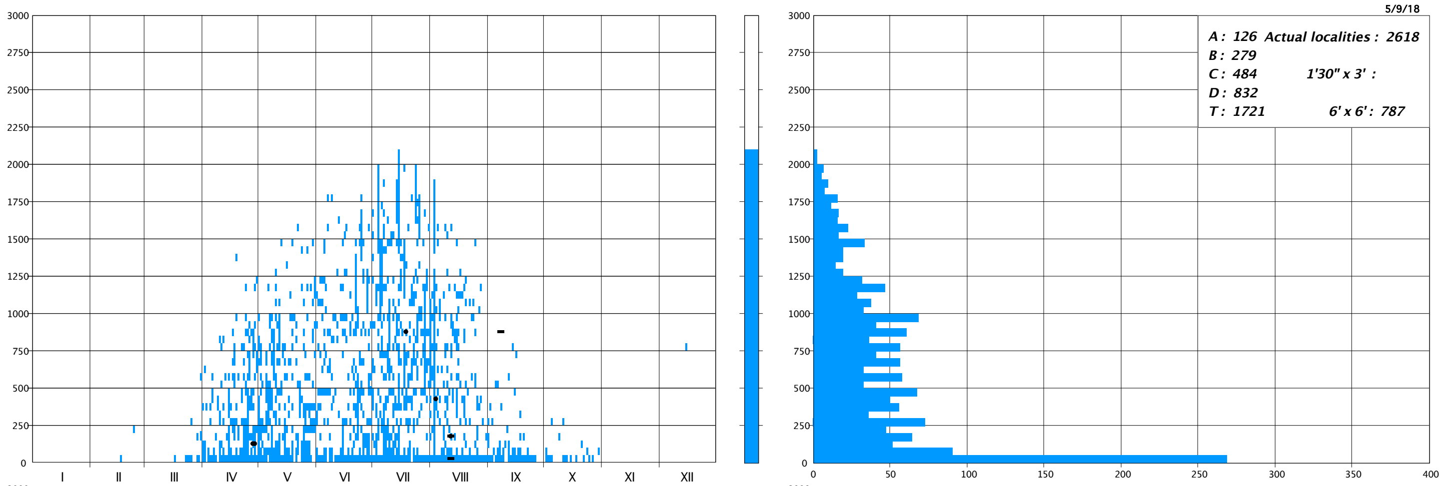
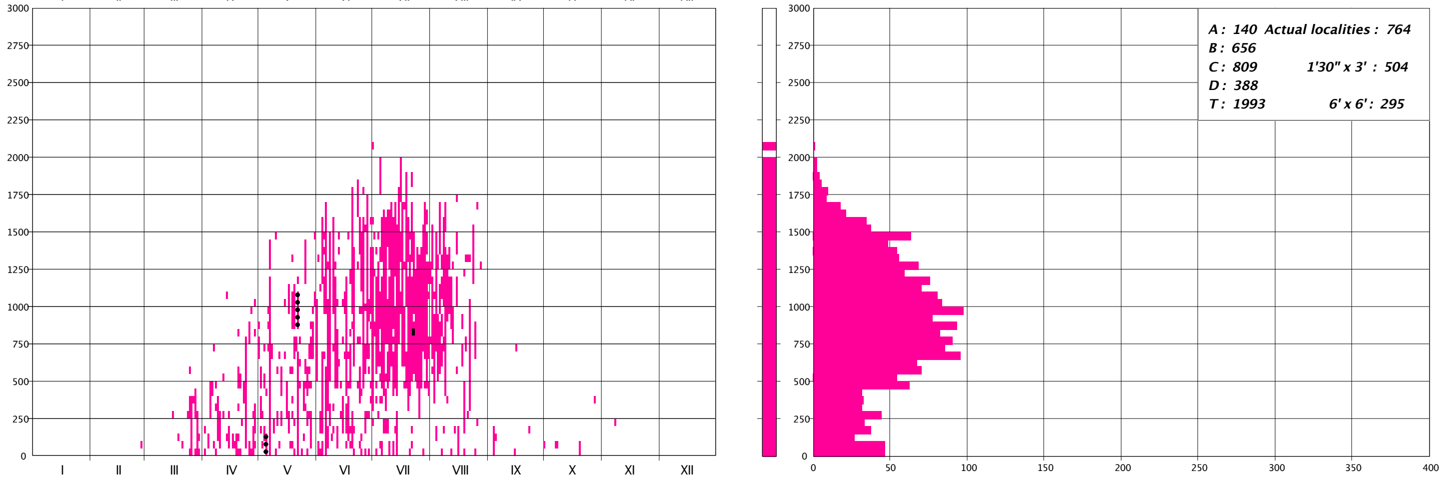


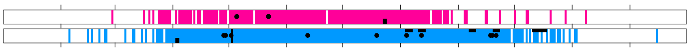
Chart 4.16 (update 2018)
Important butterfly areas in Greece

Χάρτης 4.16 (επικαιροποίηση 2018)
Σημαντικές περιοχές για τις πεταλούδες της Ελλάδας

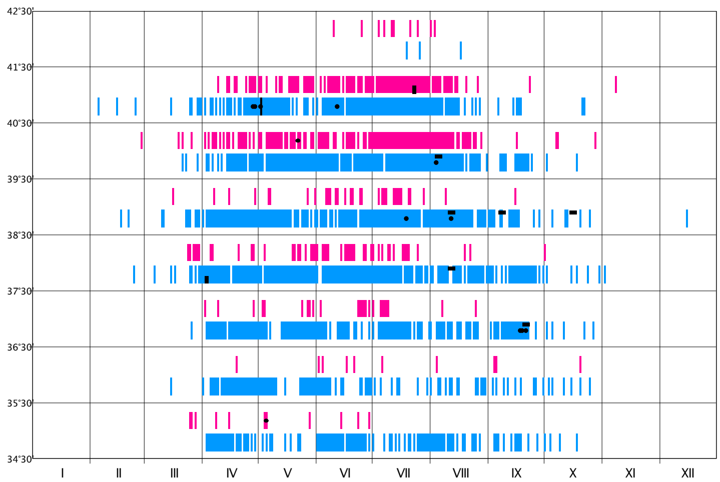


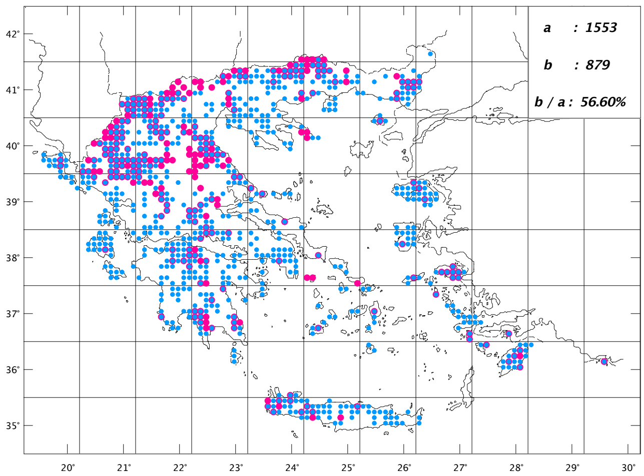


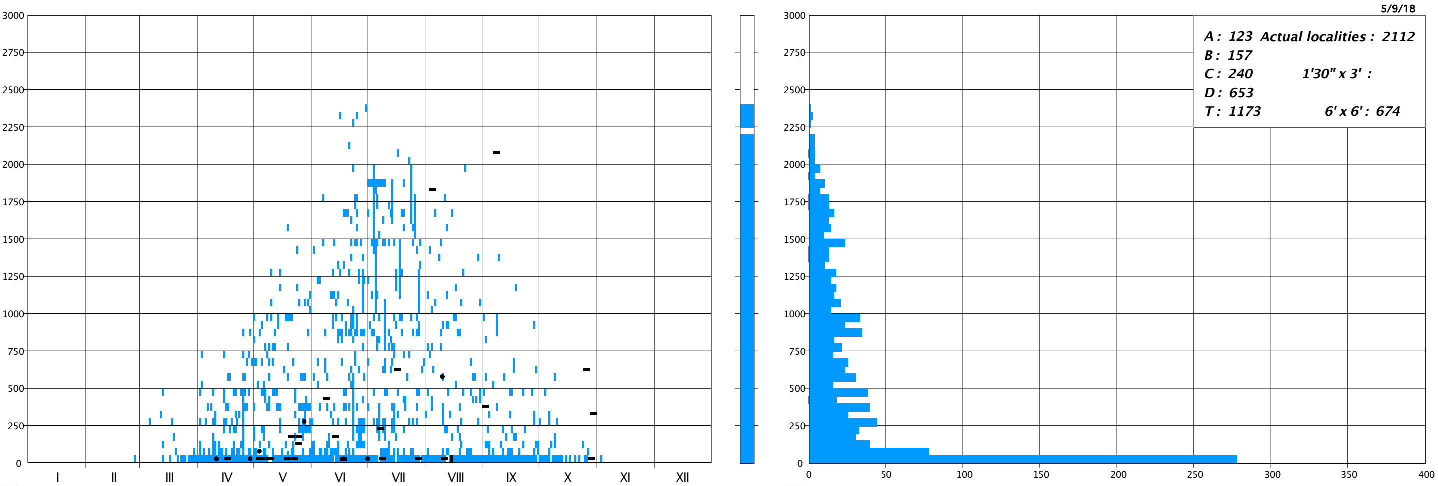


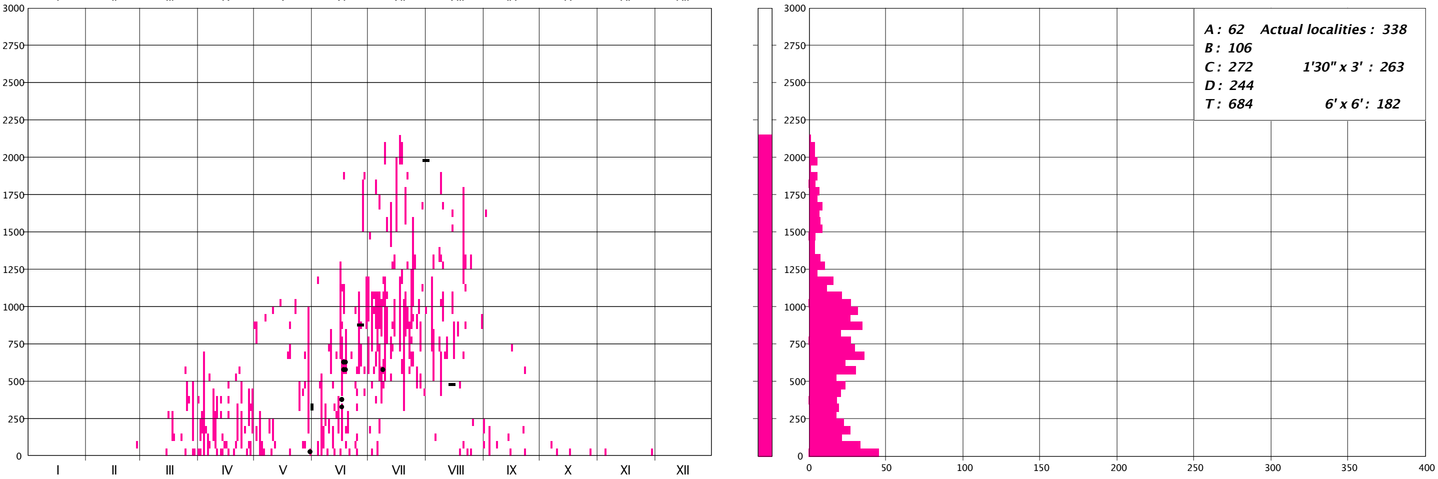


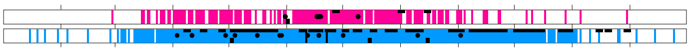
PAPILIONIDAE *Iphiclides podalirius*



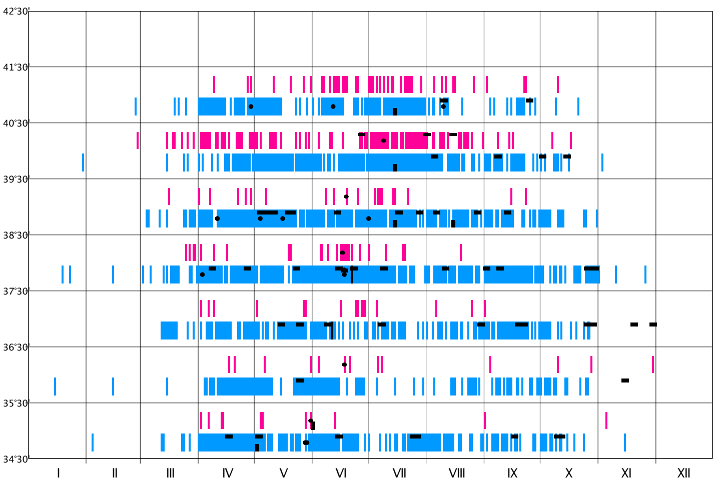


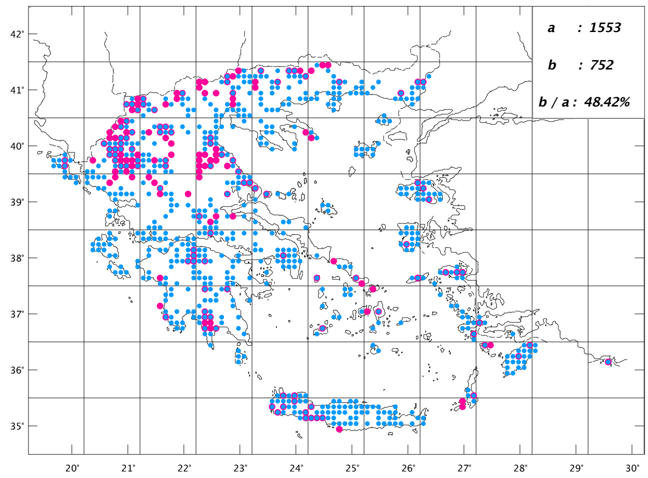


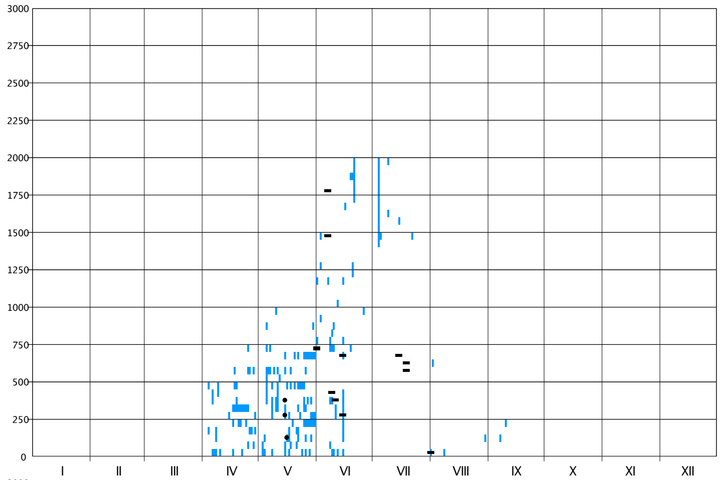


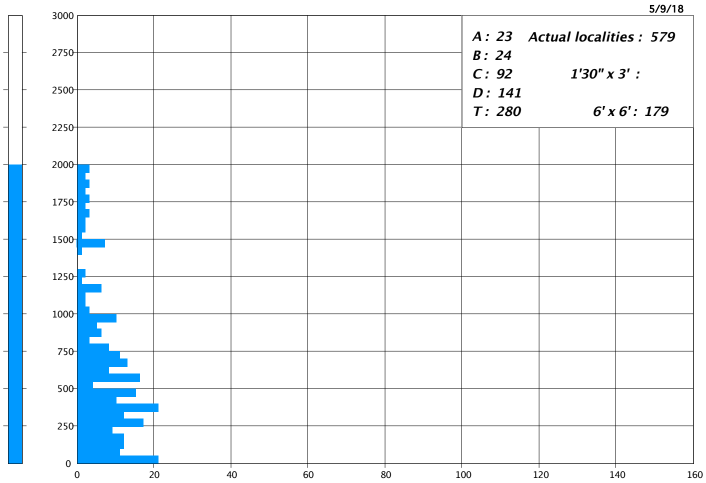


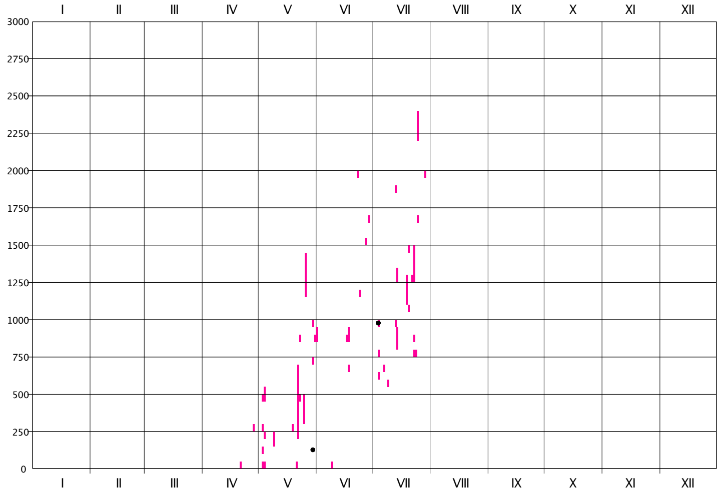
PAPILIONIDAE *Papilio machaon*

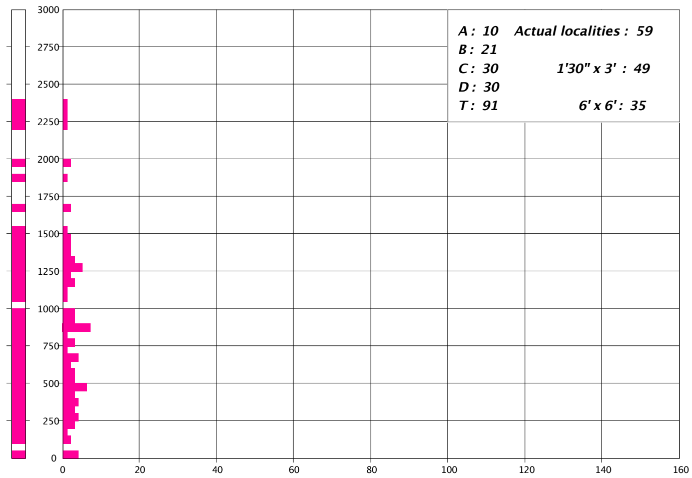


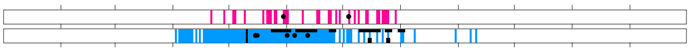




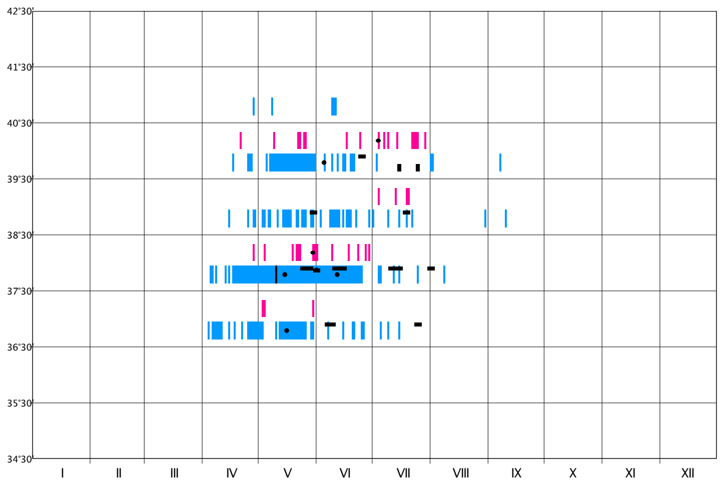


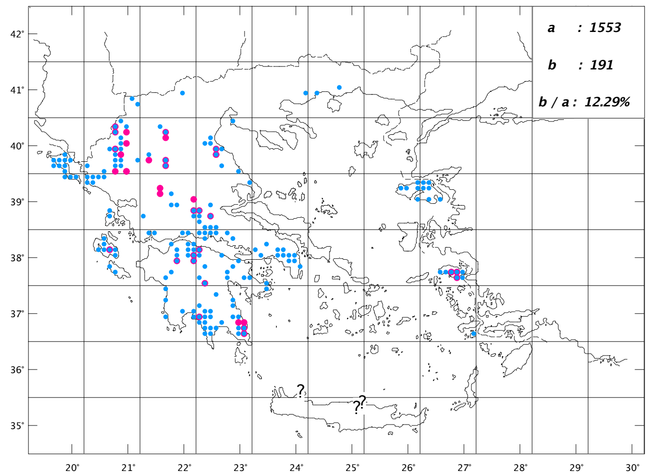


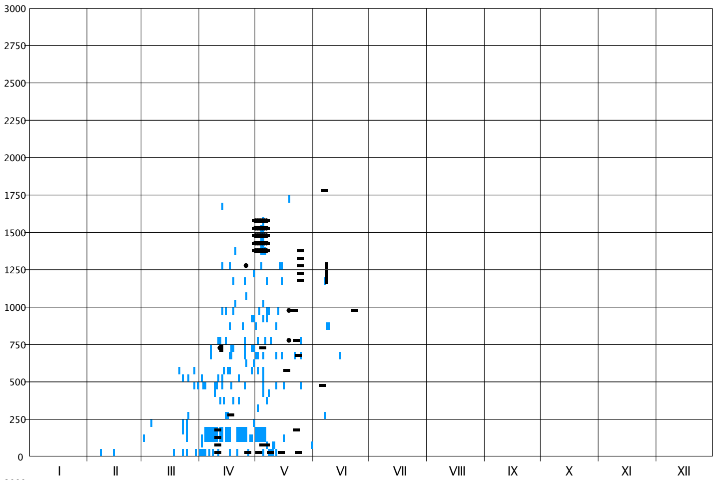


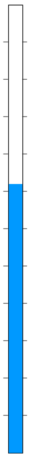


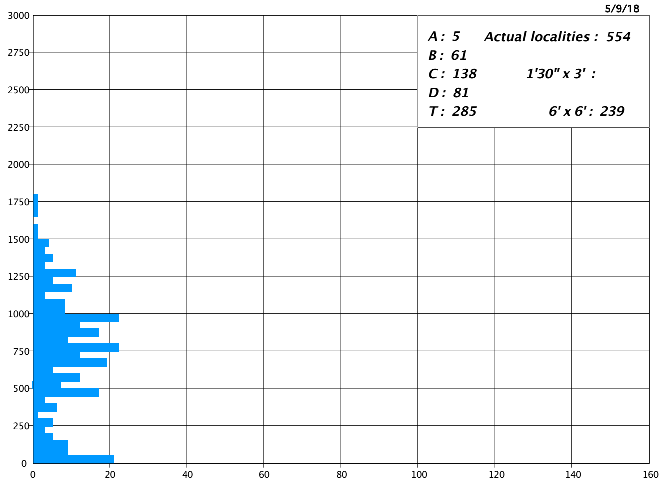
PAPILIONIDAE *Papilio alexanor*

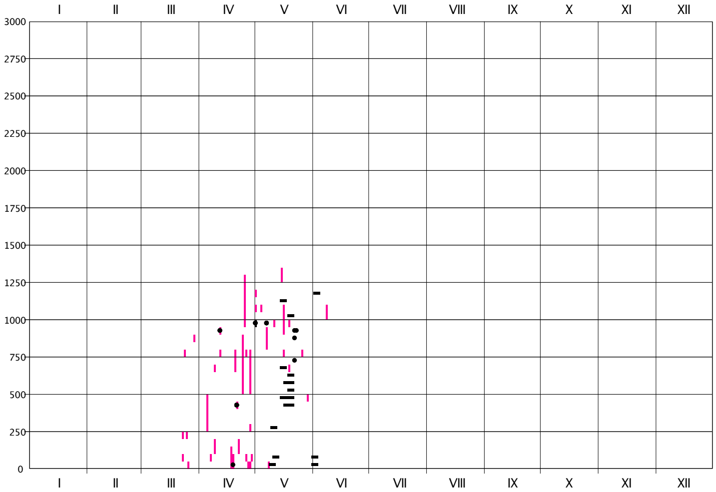


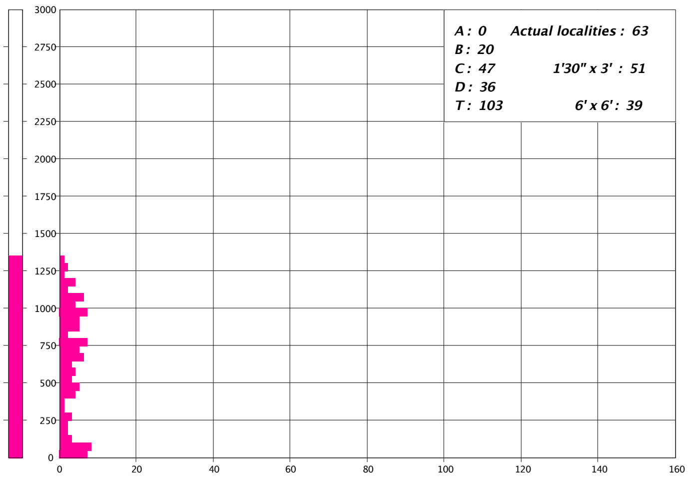


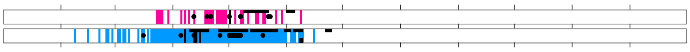




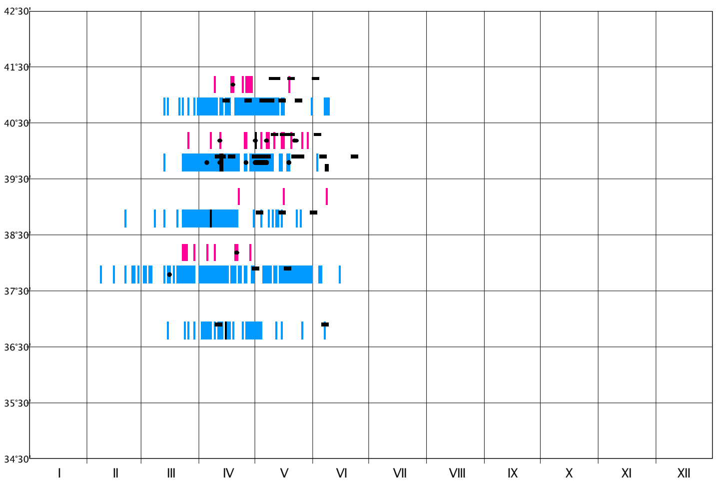


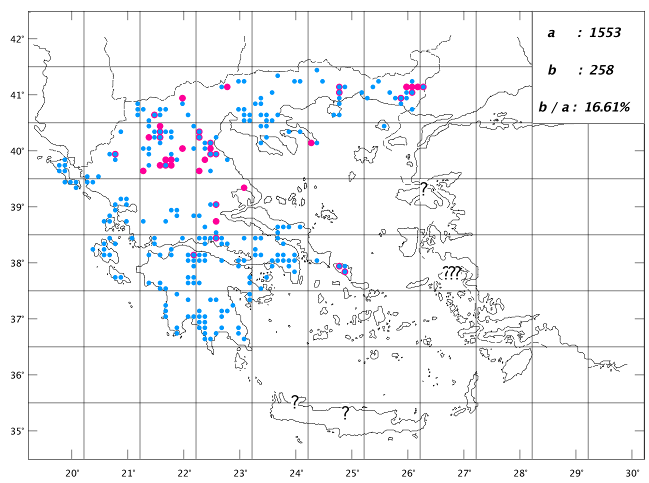


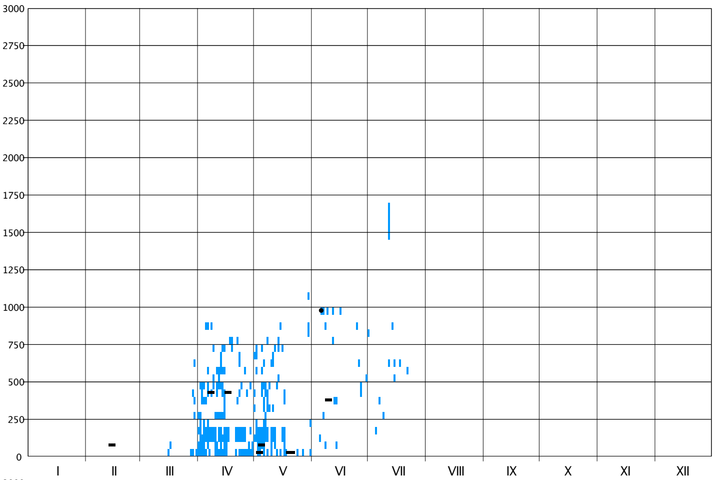


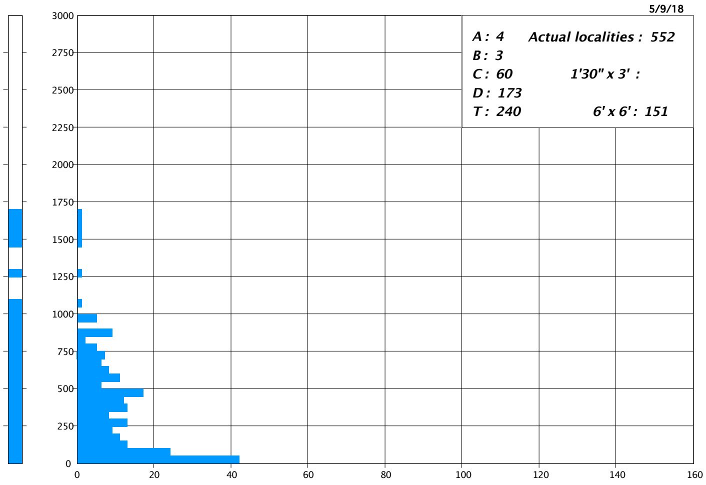


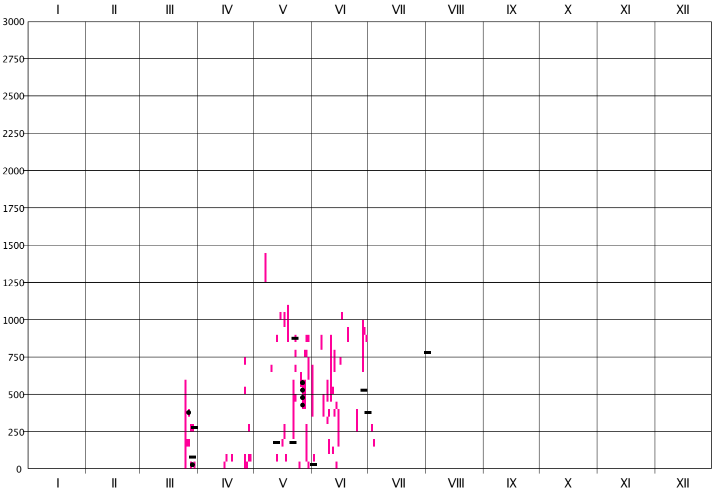
PAPILIONIDAE *Zerynthia polyxena*

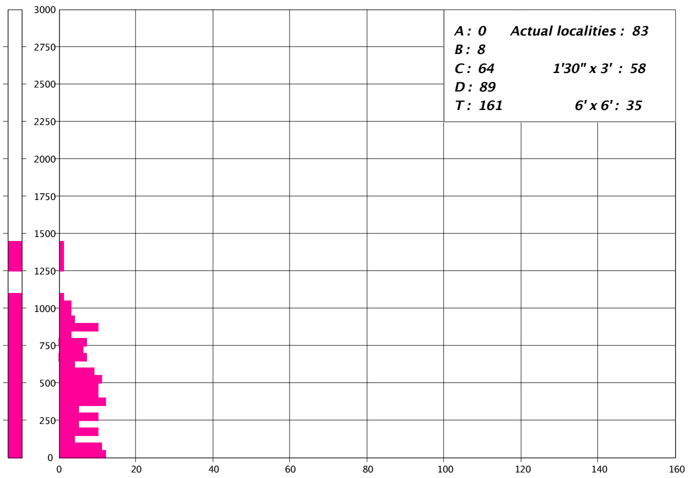




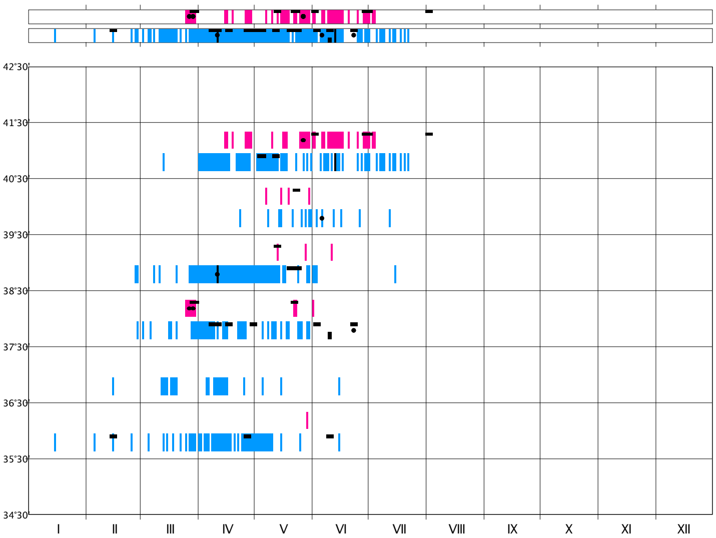


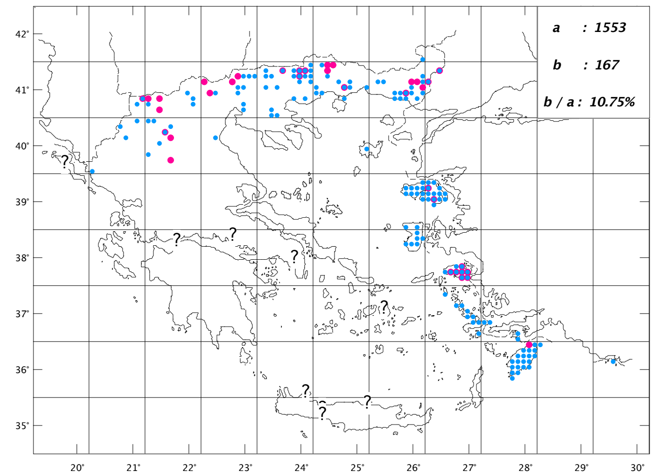


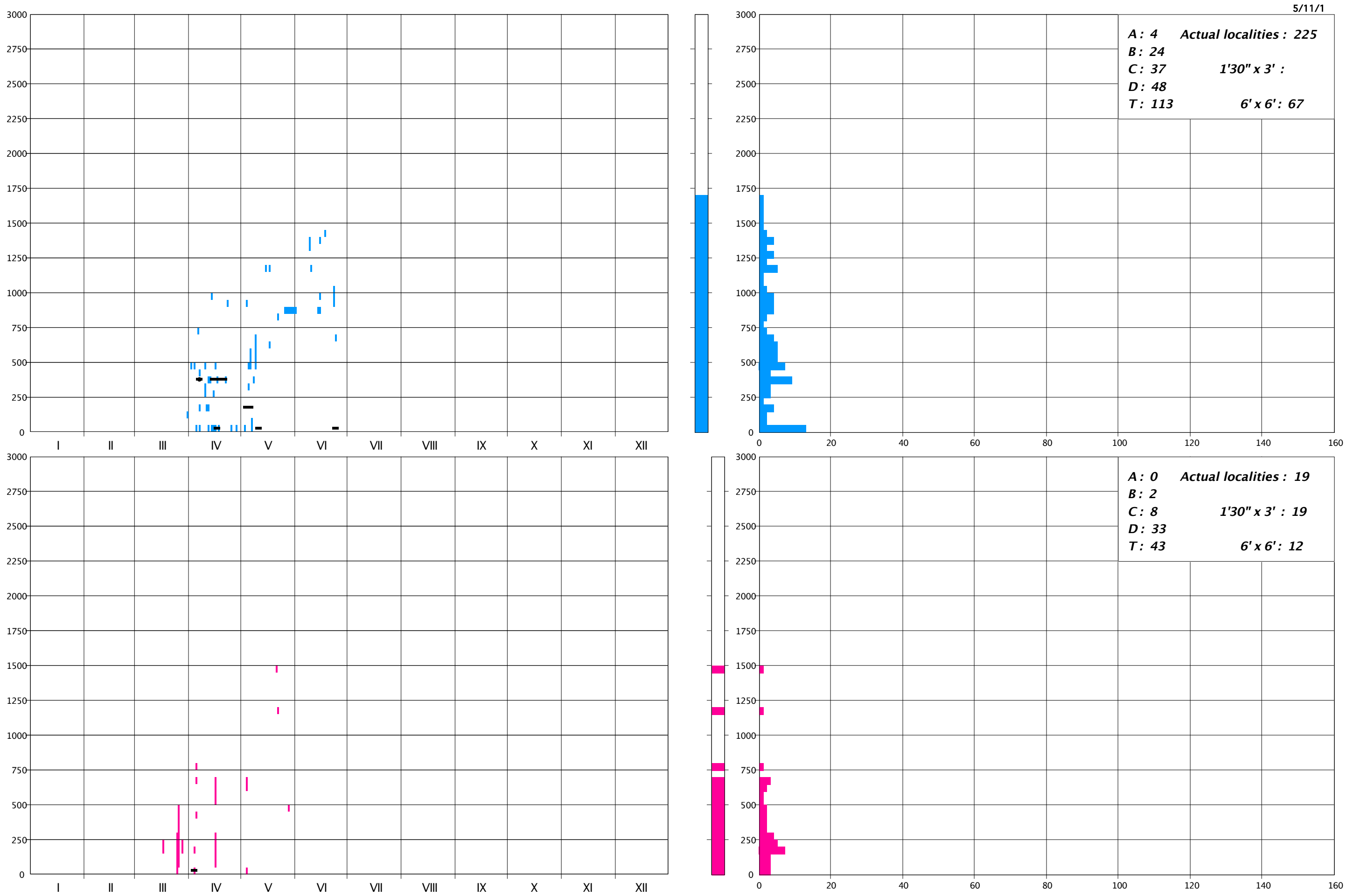




PAPILIONIDAE *Allancanstria cerisy*







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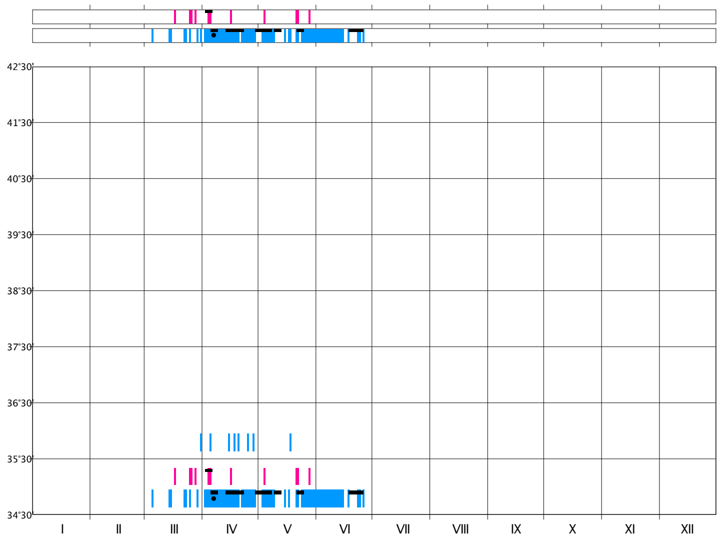
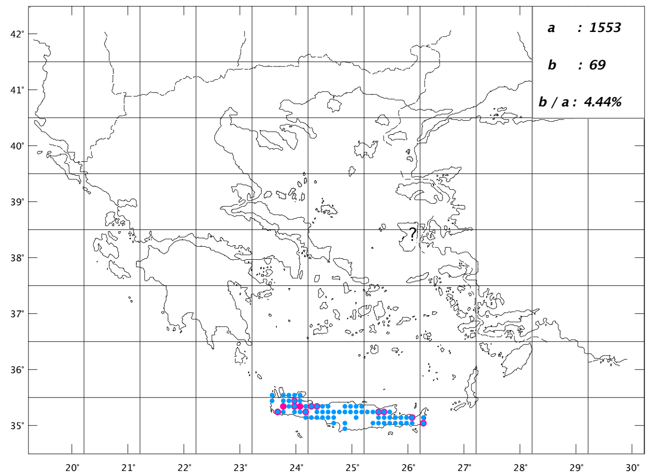
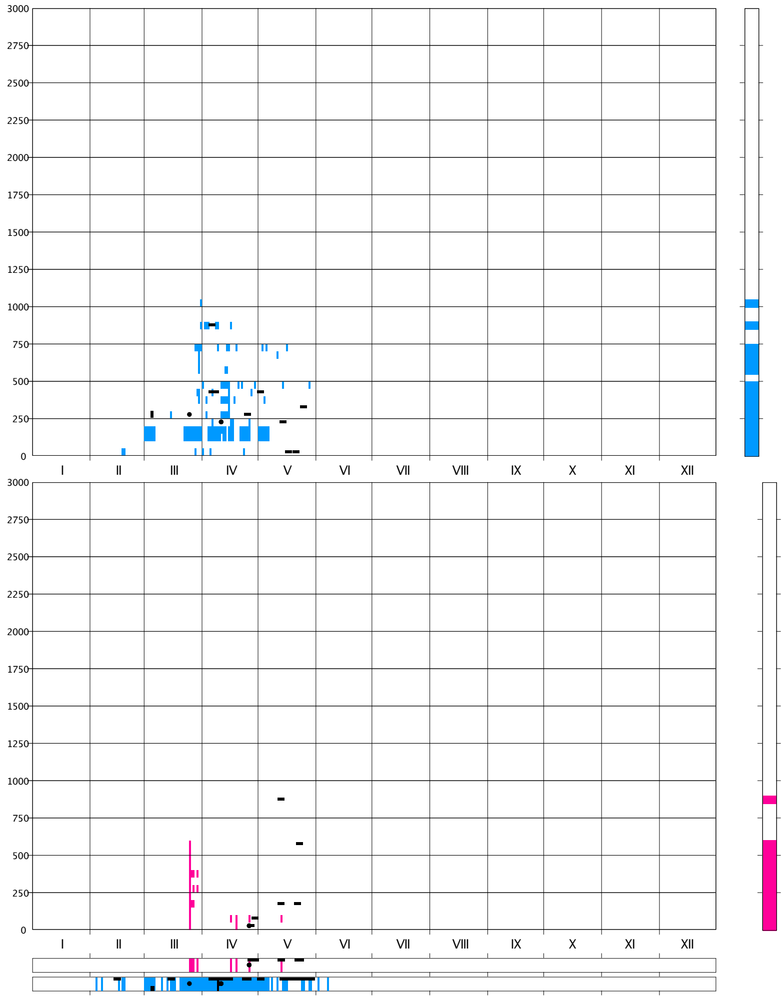
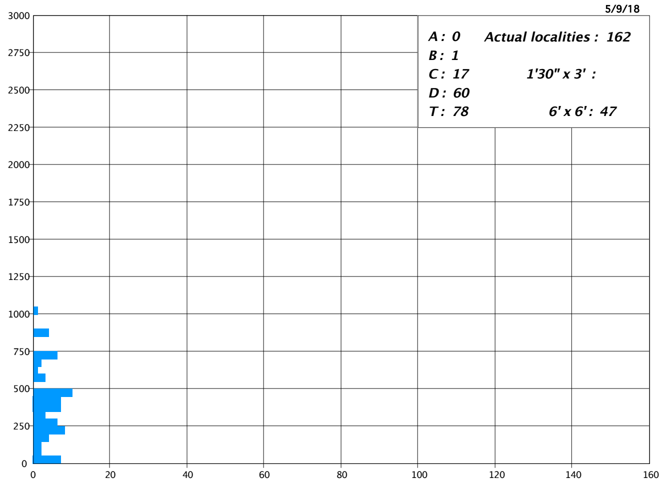
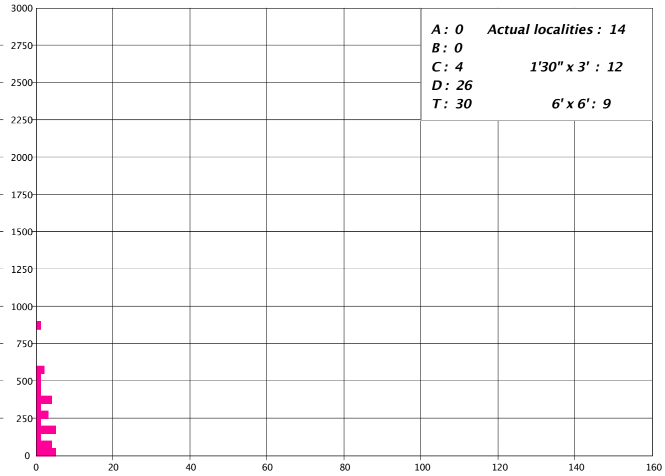


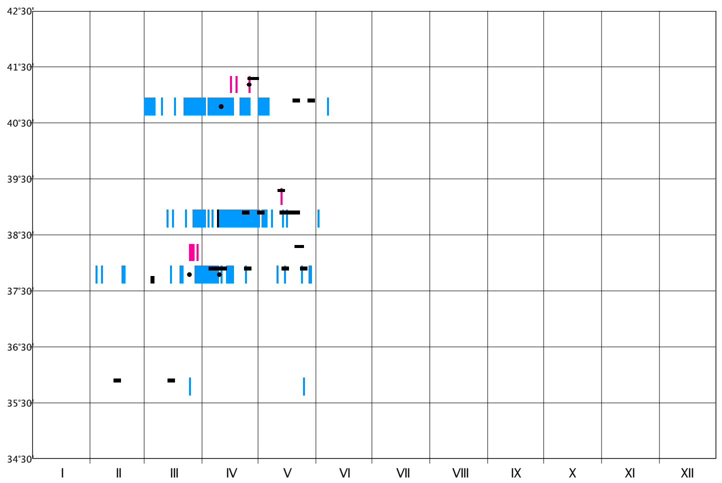


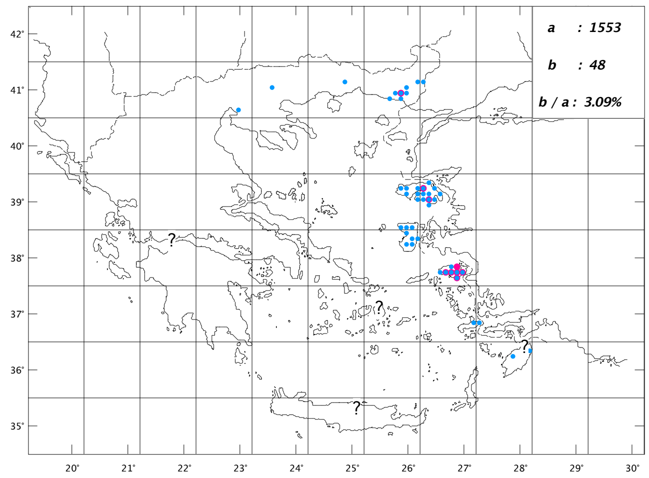






PAPILIONIDAE *Archon apollinus*





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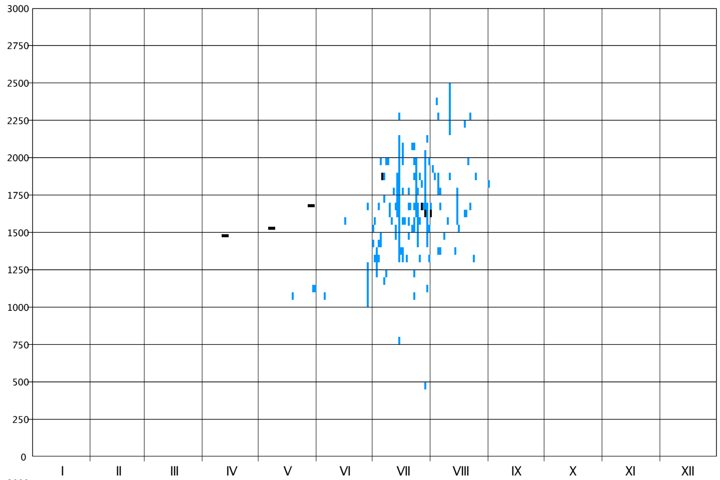
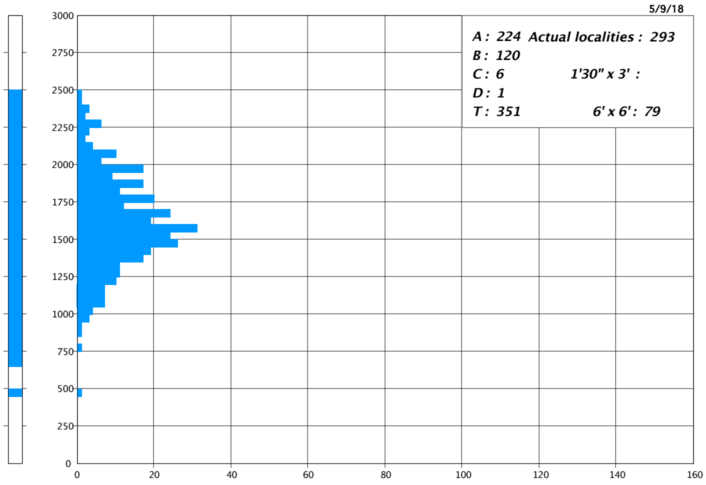
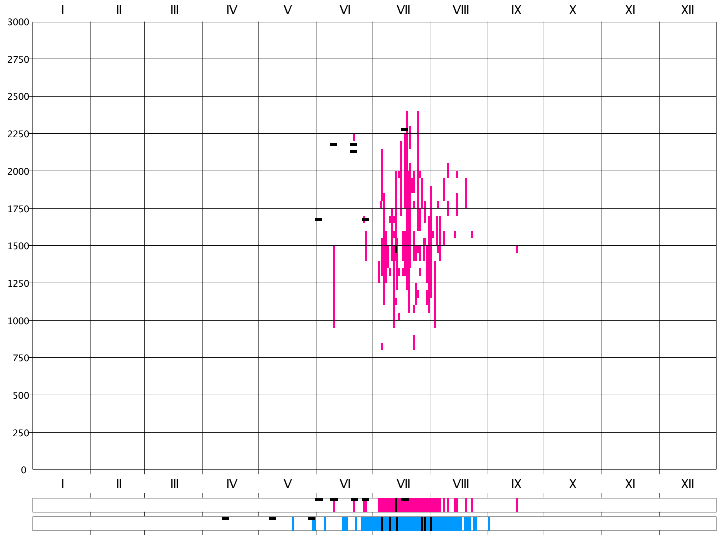
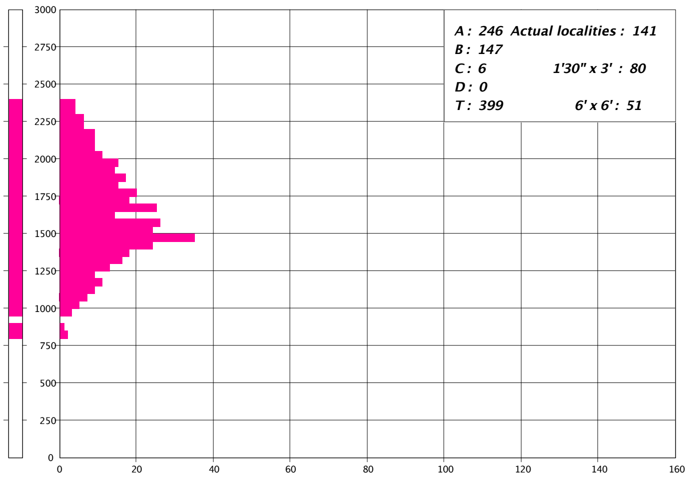
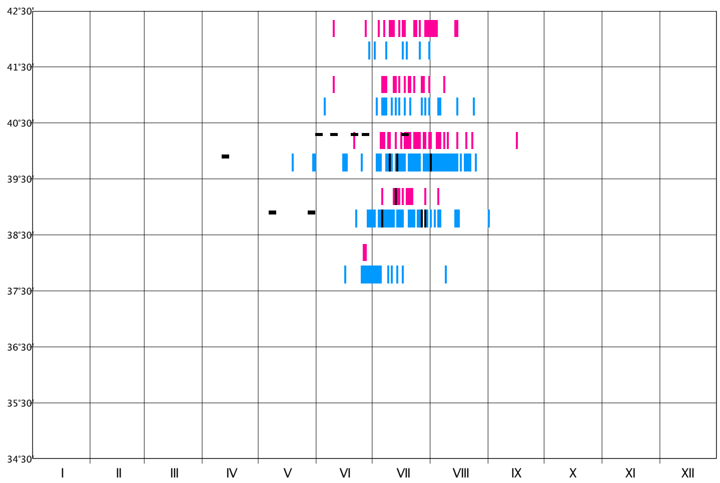


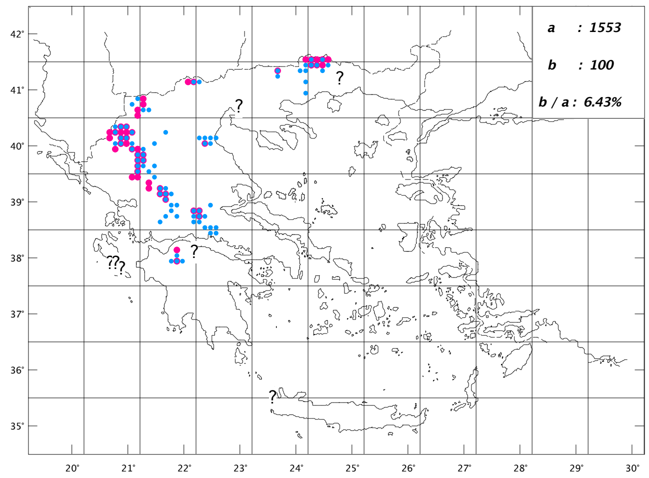


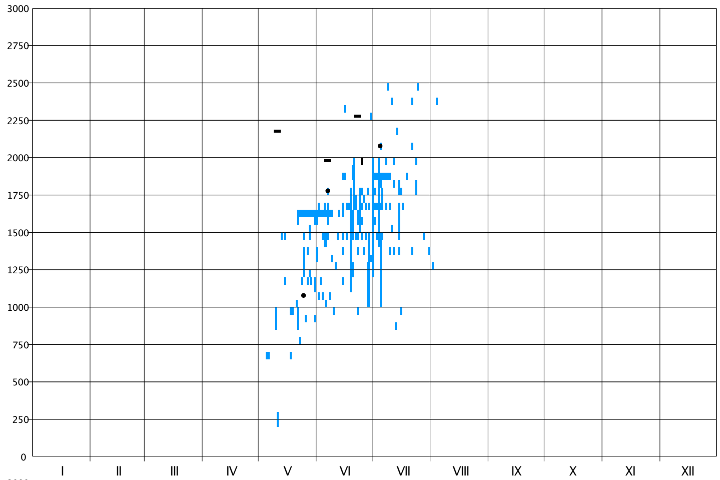


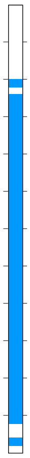


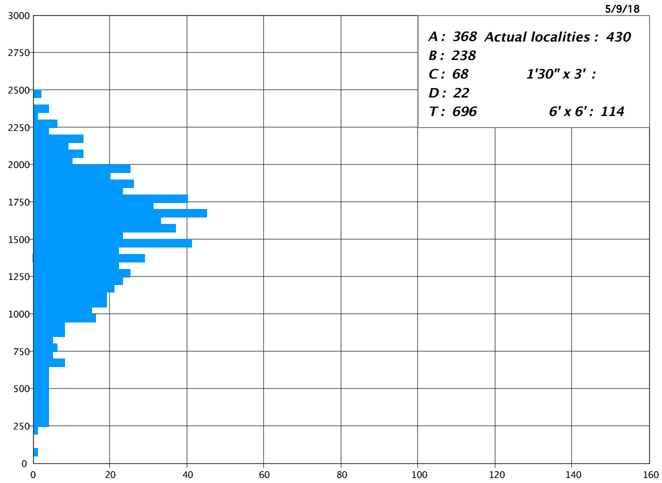
PAPILIONIDAE *Parnassius apollo*

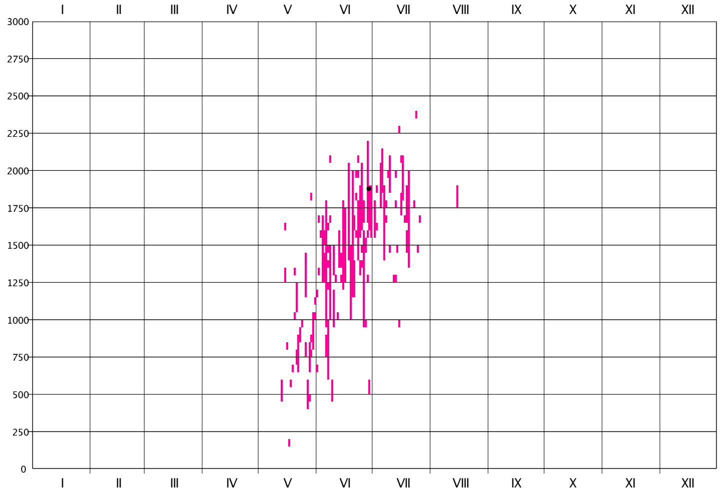


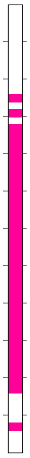


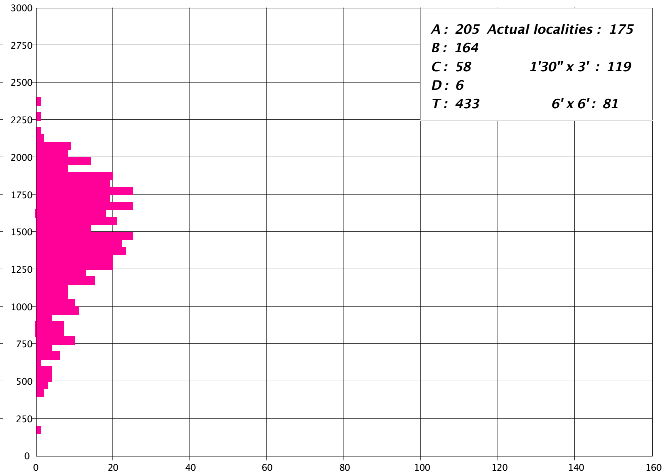


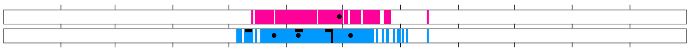




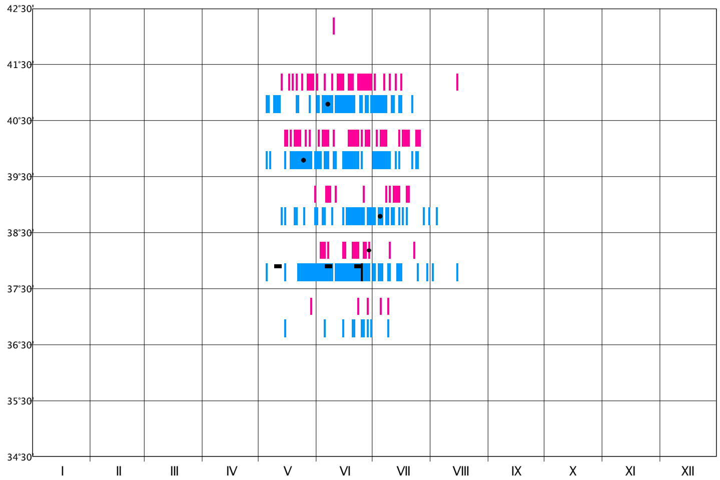


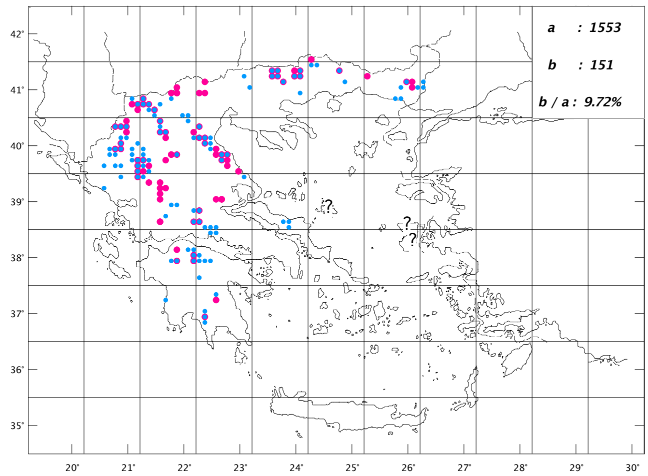


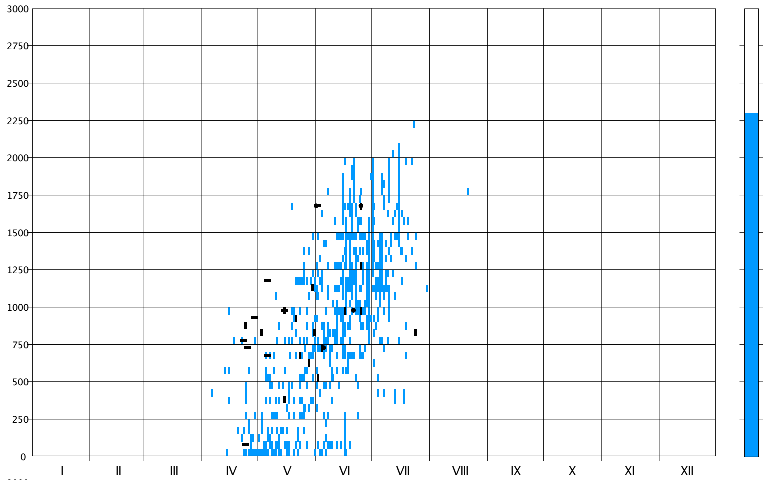


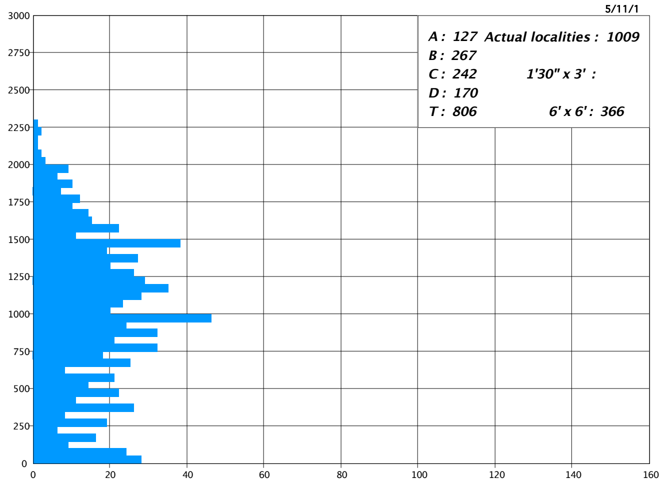


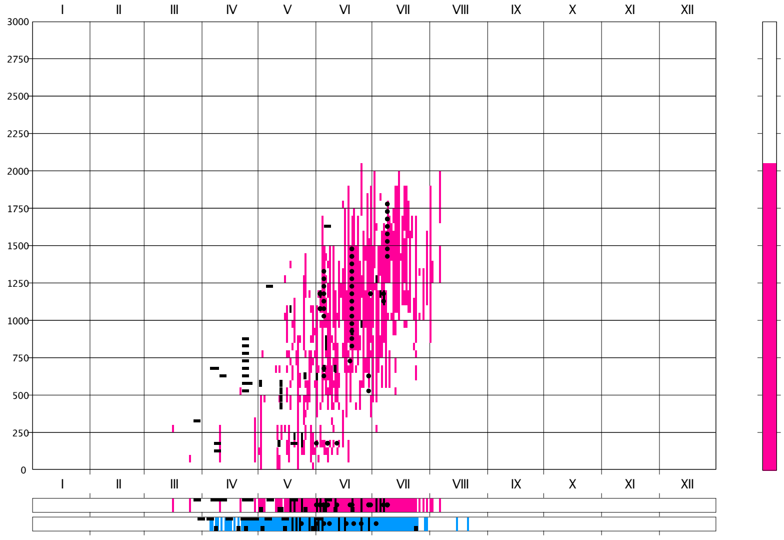
PAPILIONIDAE *Parnassius mnemosyne*

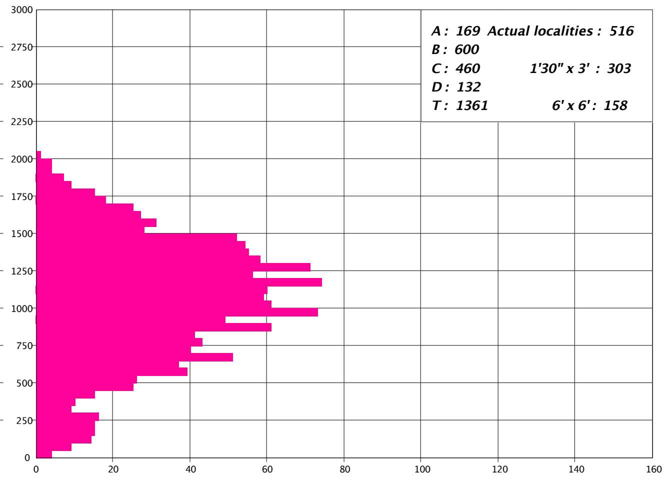




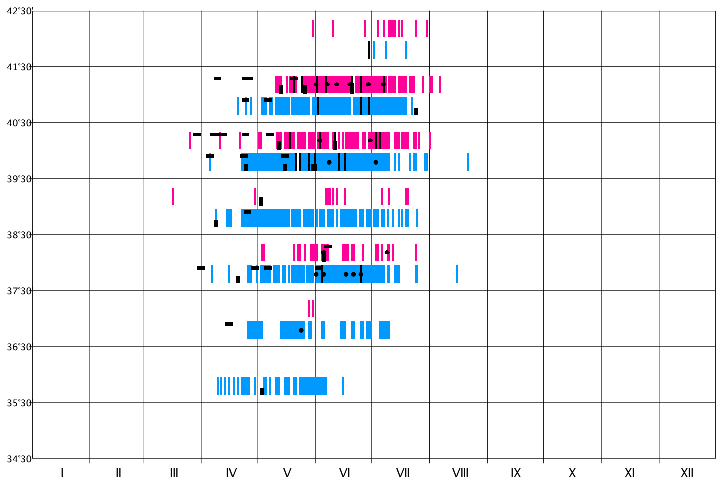


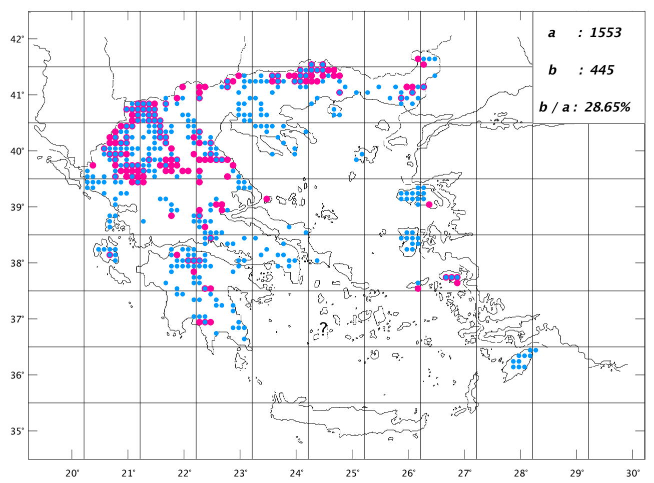


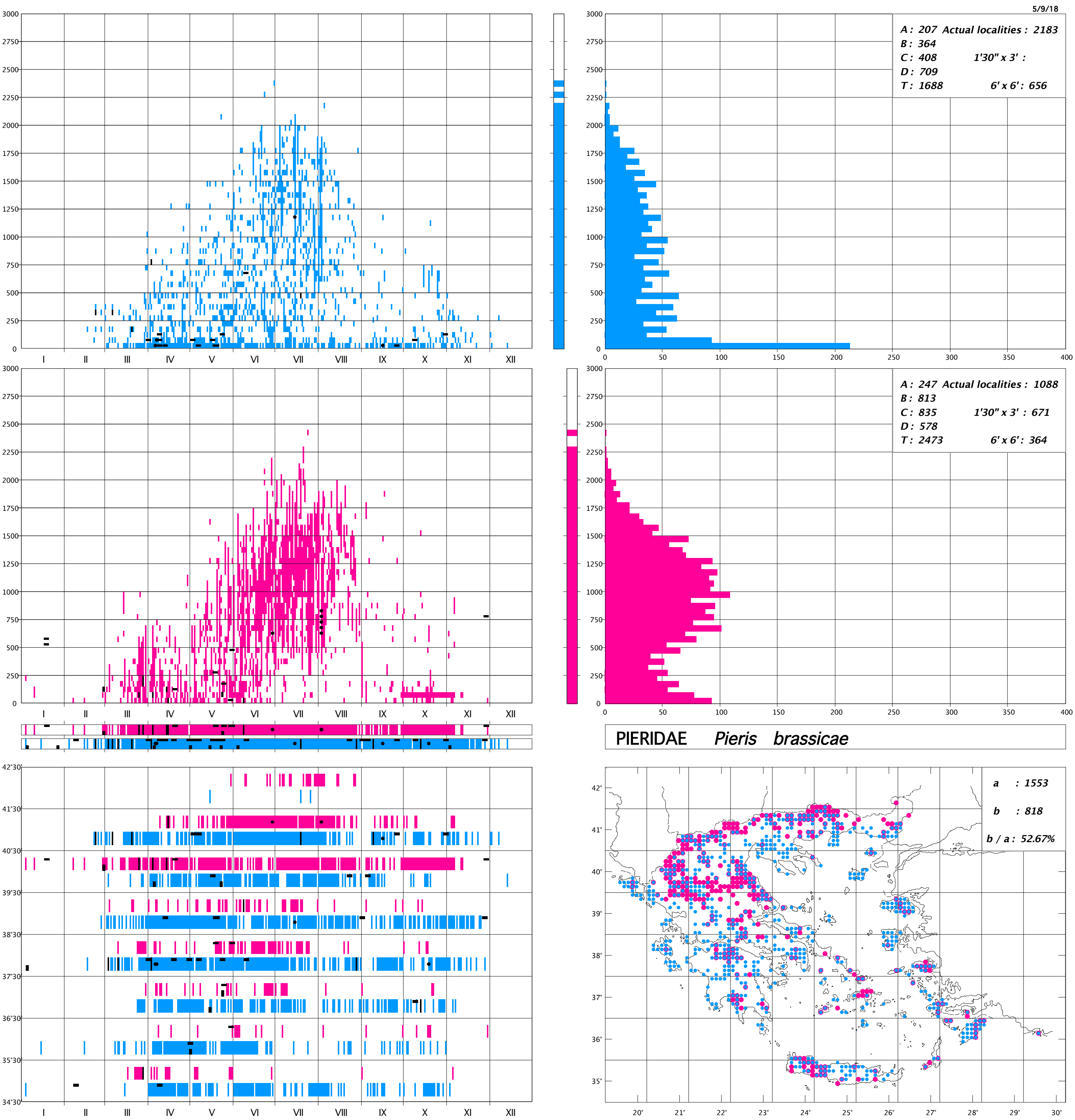




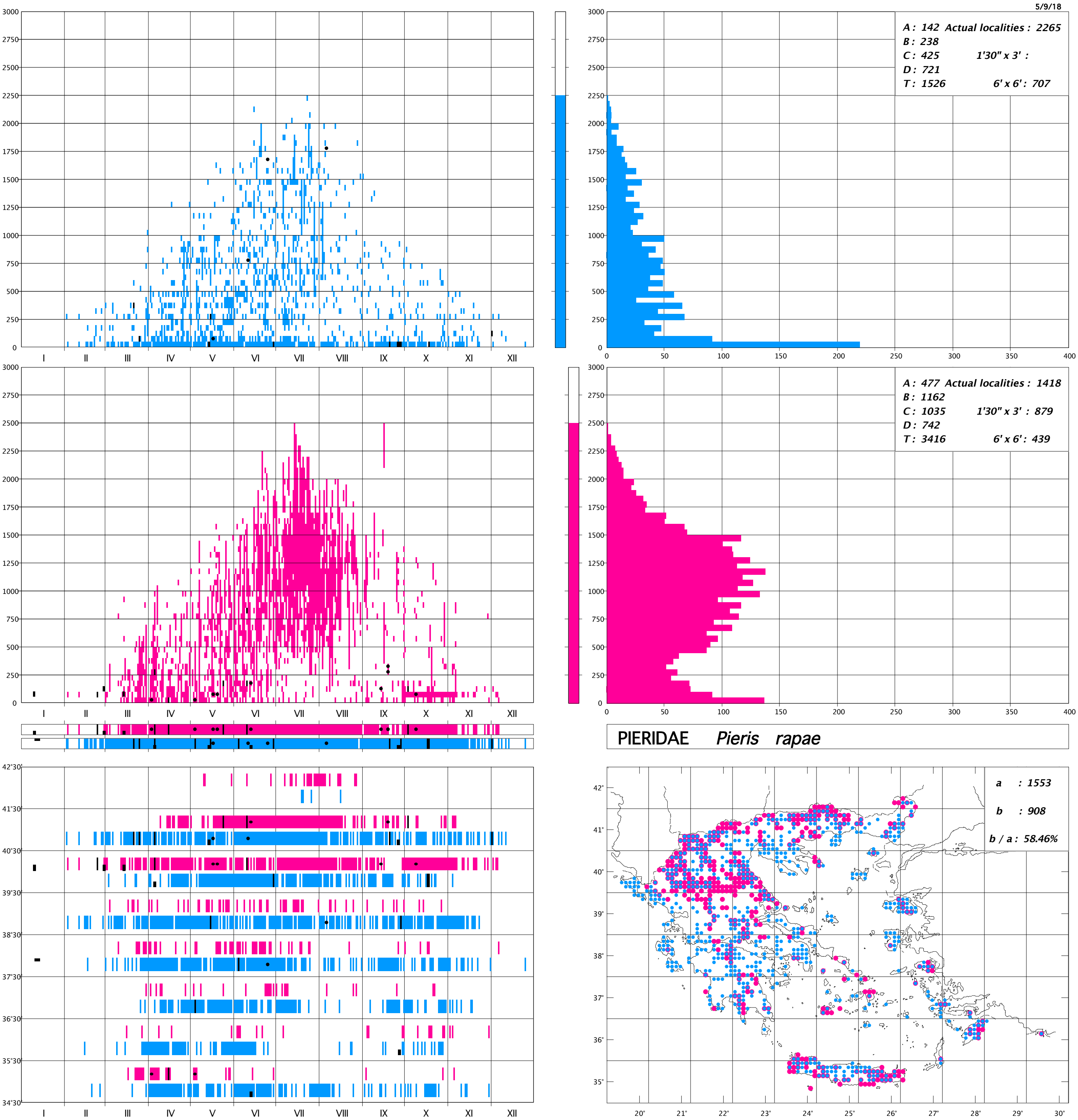
PIERIDAE *Aporia crataegi*

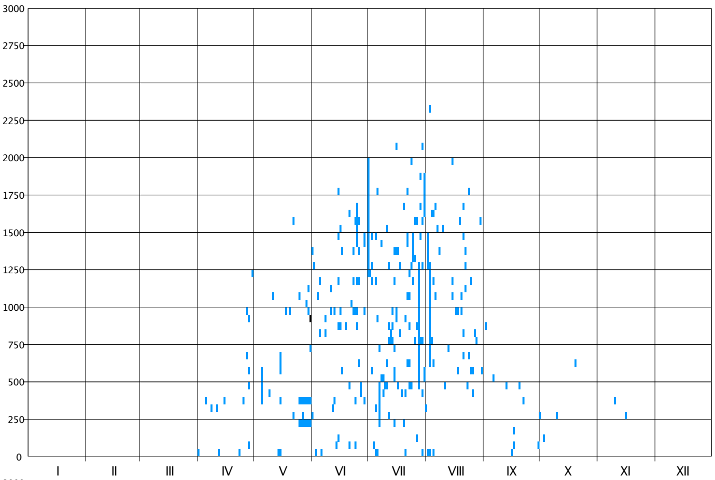


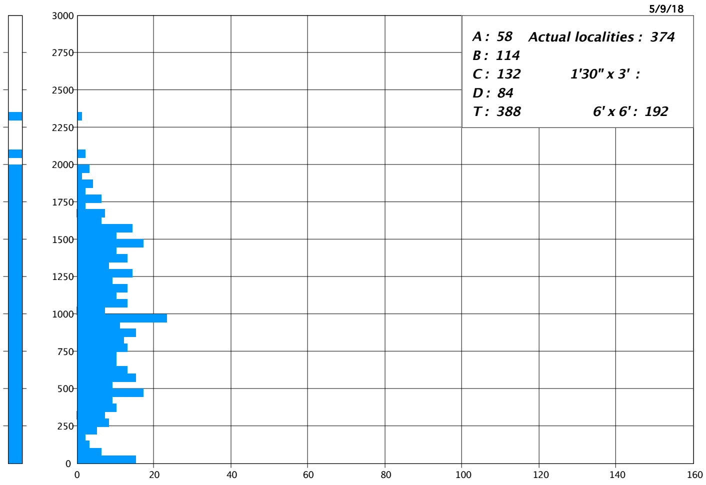


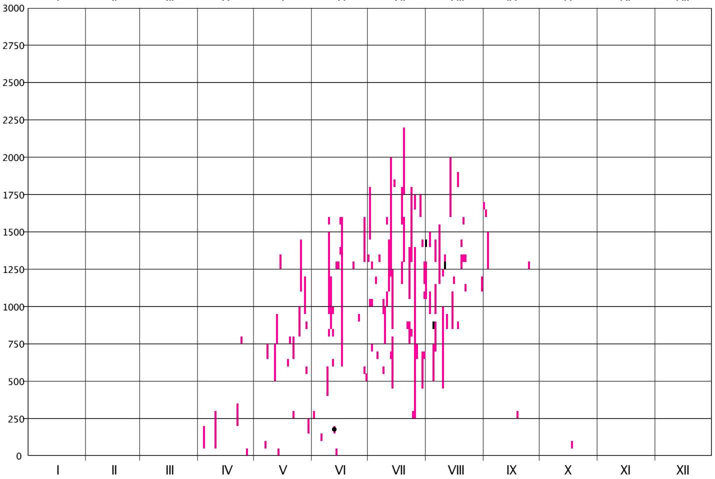


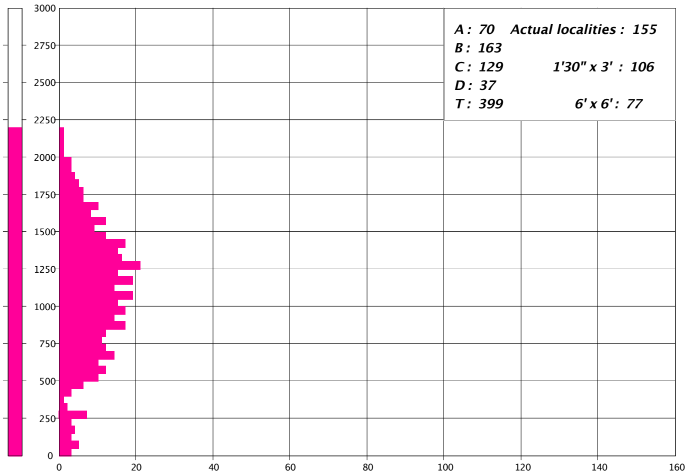
5/9/18
A : 207 Actual localities : 2183
B : 364
C : 408 1'30" x 3' :
D : 709
T : 1688 6' x 6' : 656
A : 247 Actual localities : 1088
B : 813
C : 835 1'30" x 3' : 671
D : 578
T : 2473 6' x 6' : 364
PIERIDAE Pieris brassicae
a : 1553
b : 818
b / a : 52.67%


A : 142 Actual localities : 2265
B : 238
C : 425 1'30" x 3' :
D : 721
T : 1526 6' x 6' : 707
A : 477 Actual localities : 1418
B : 1162
C : 1035 1'30" x 3' : 879
D : 742
T : 3416 6' x 6' : 439
PIERIDAE *Pieris rapae*
a : 1553
b : 908
b / a : 58.46%
I II III IV V VI VII VIII IX X XI XII
42°30' 41°30' 40°30' 39°30' 38°30' 37°30' 36°30' 35°30' 34°30'
20° 21° 22° 23° 24° 25° 26° 27° 28° 29° 30°
35° 36° 37° 38° 39° 40° 41° 42°

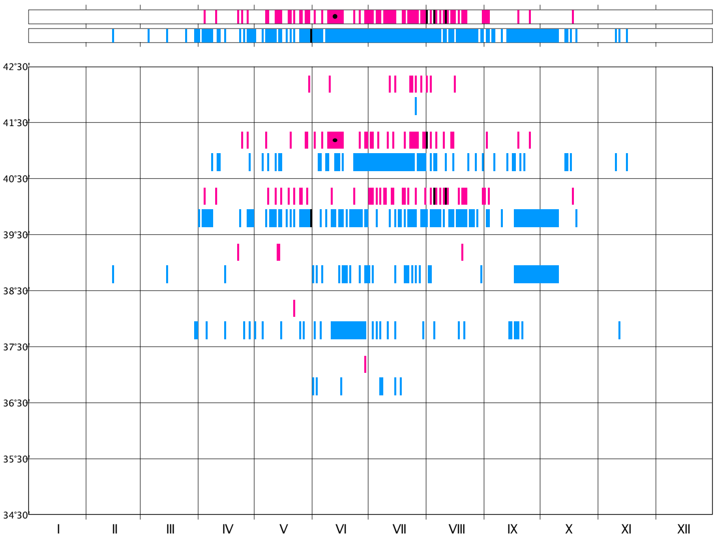


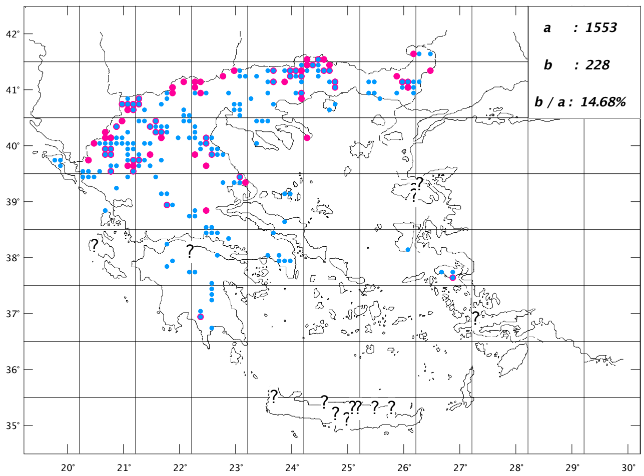


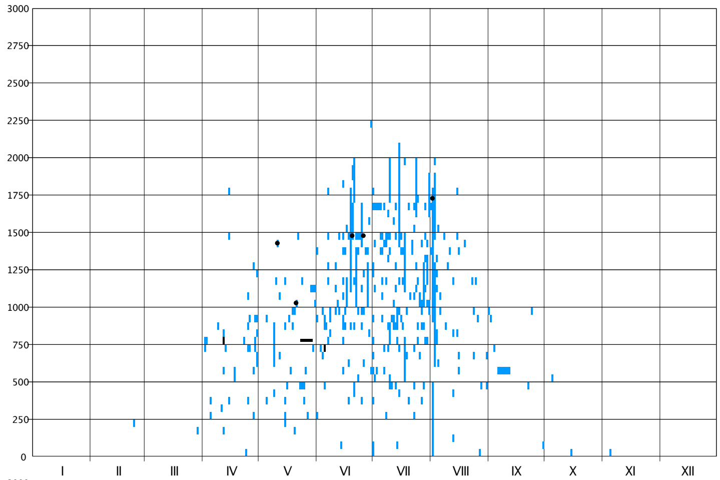


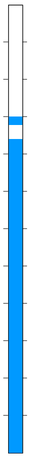


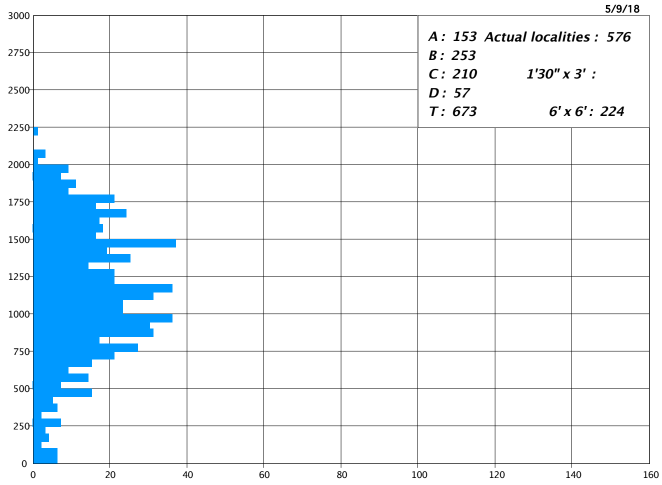
PIERIDAE *Pieris mannii*

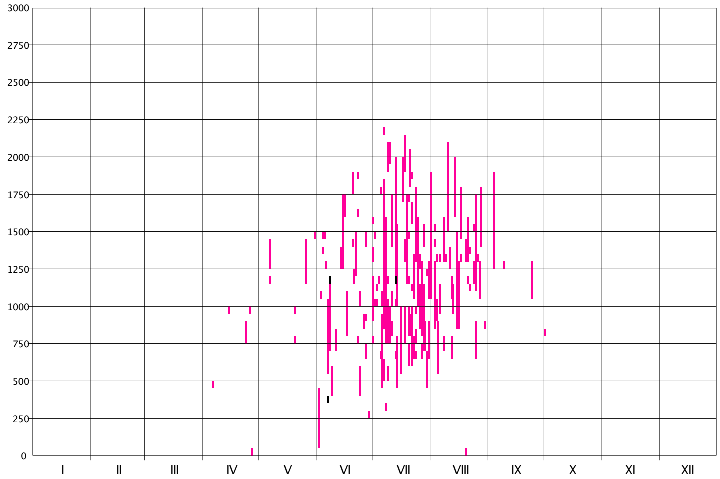


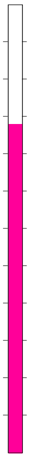


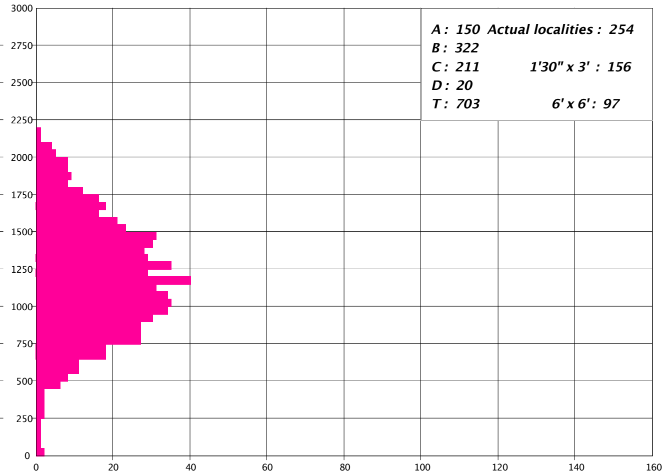


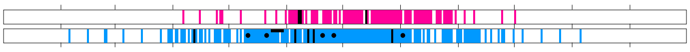




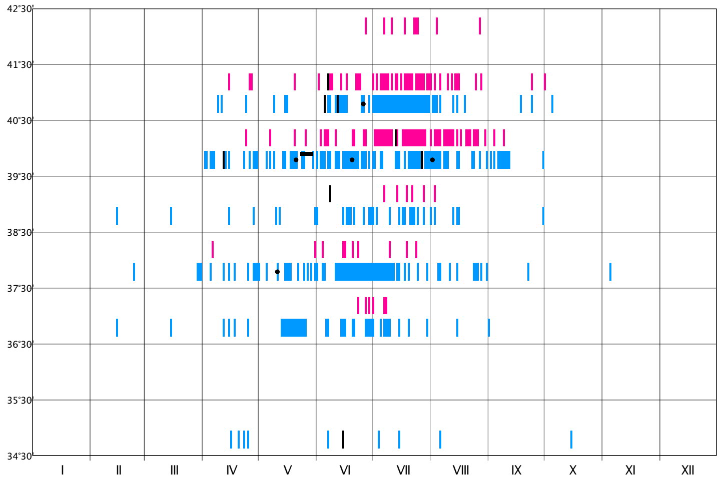


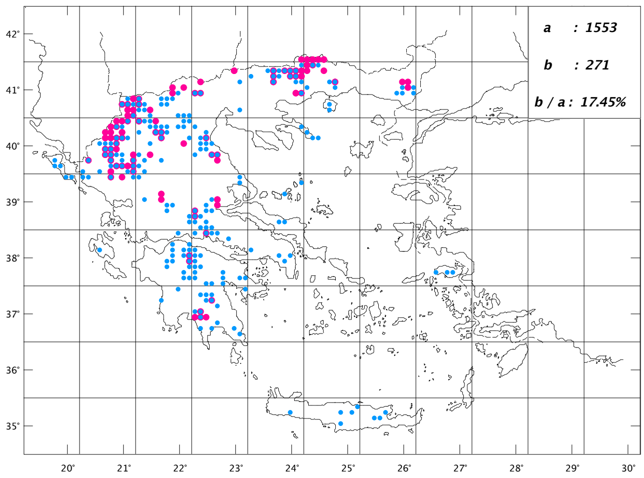


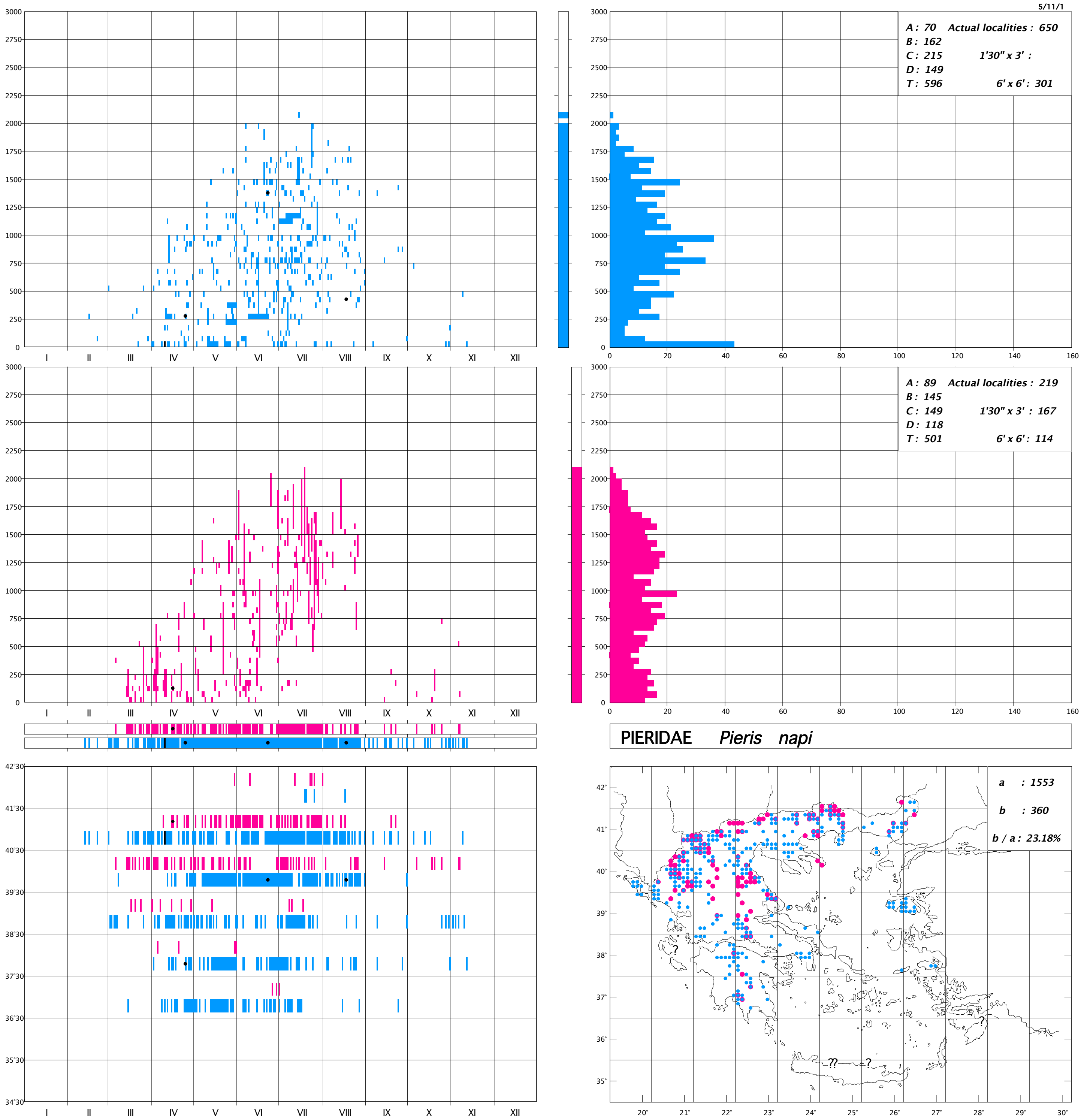




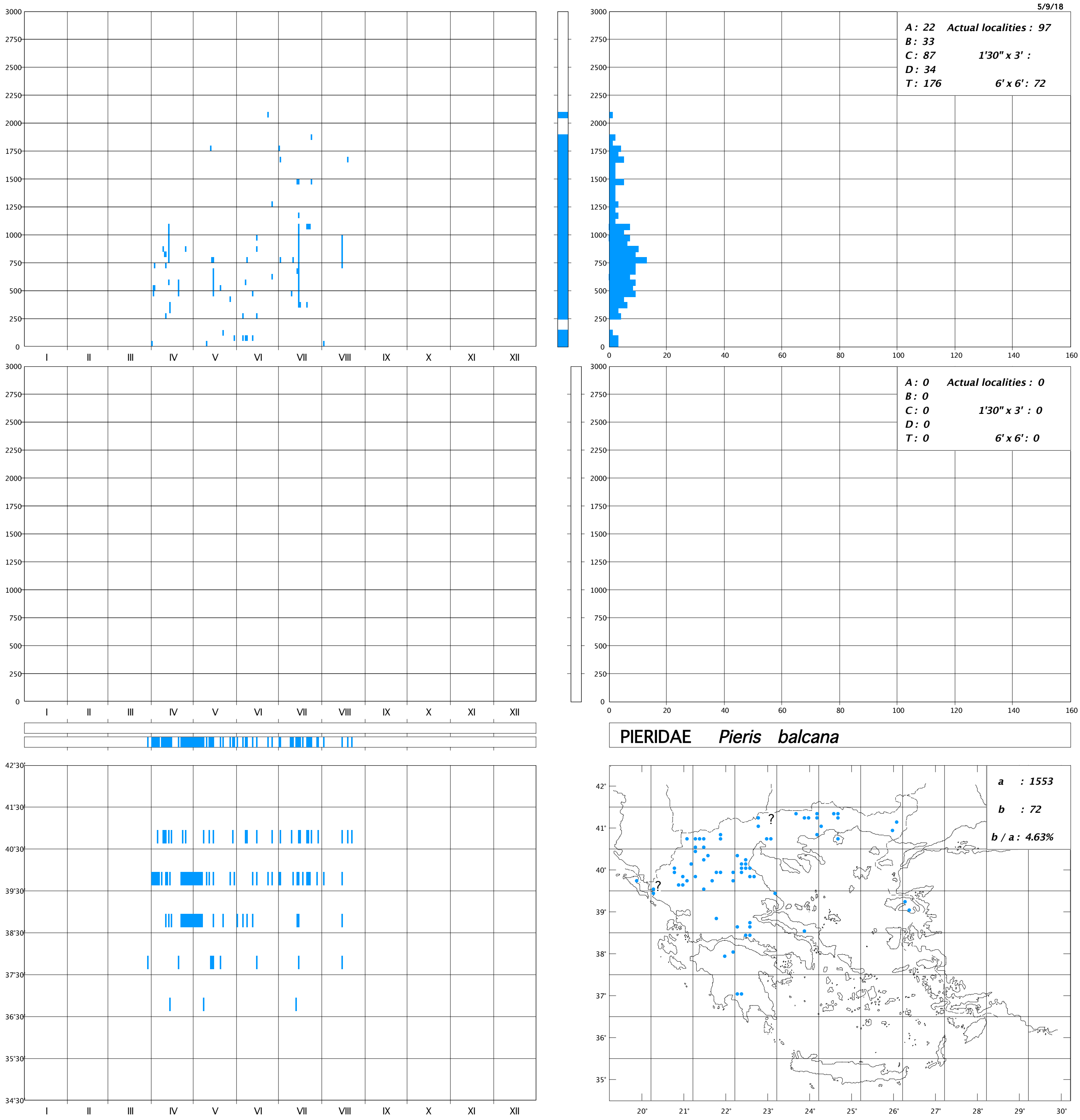
PIERIDAE *Pieris ergane*





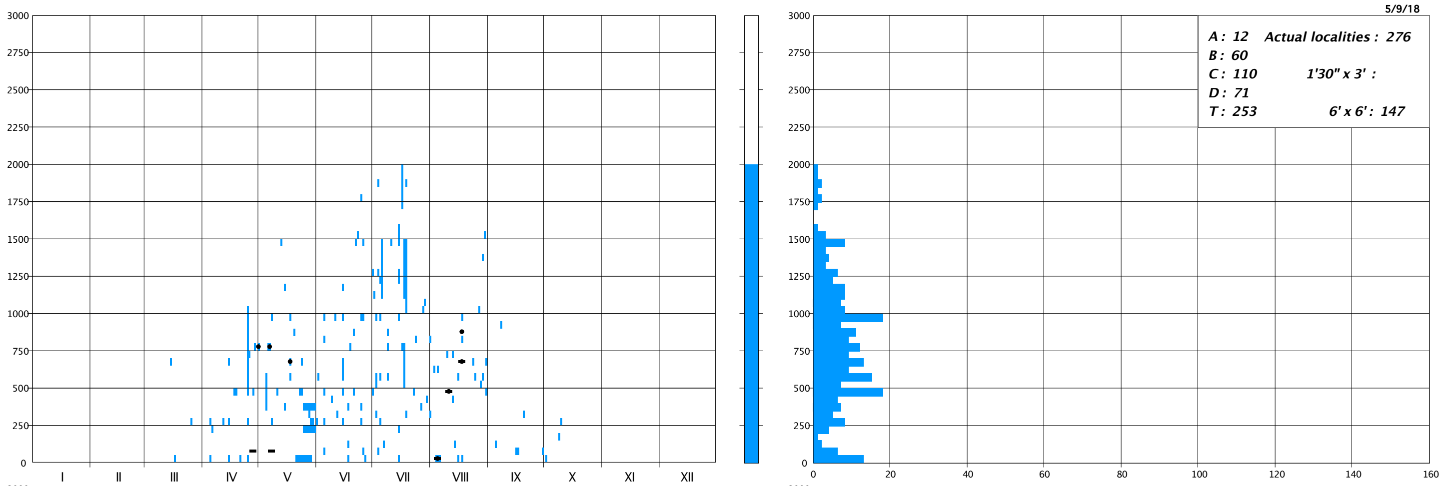


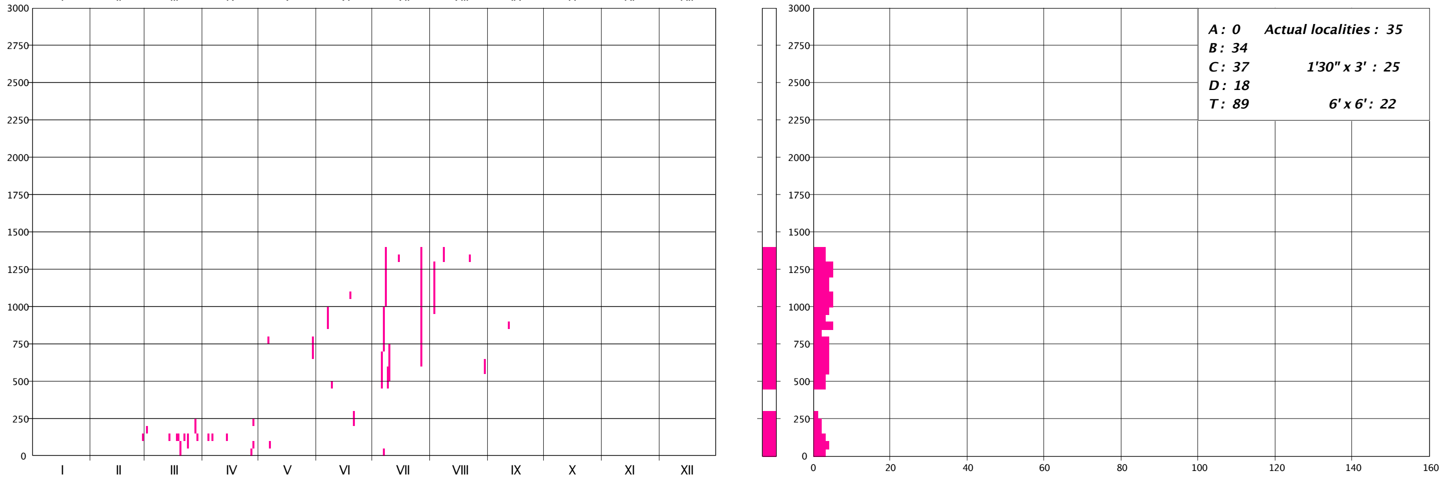
Αμφίβολη αναγνώριση / Identification uncertain

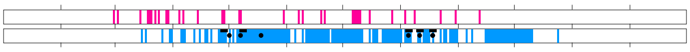


Αμφίβολη αναγνώριση / Identification uncertain

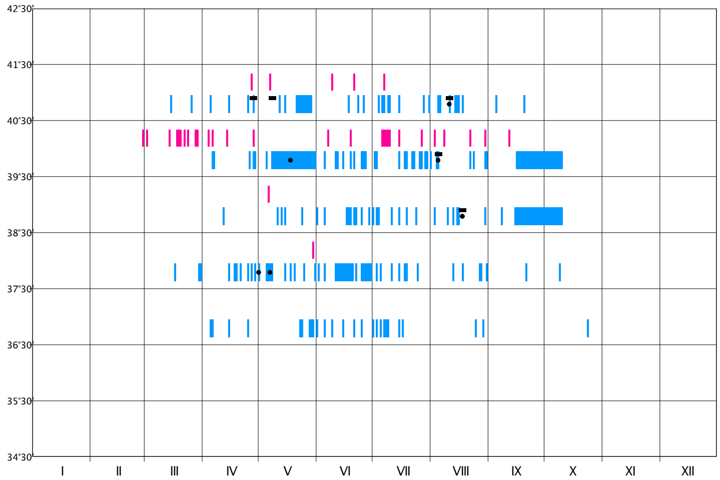
5/9/18

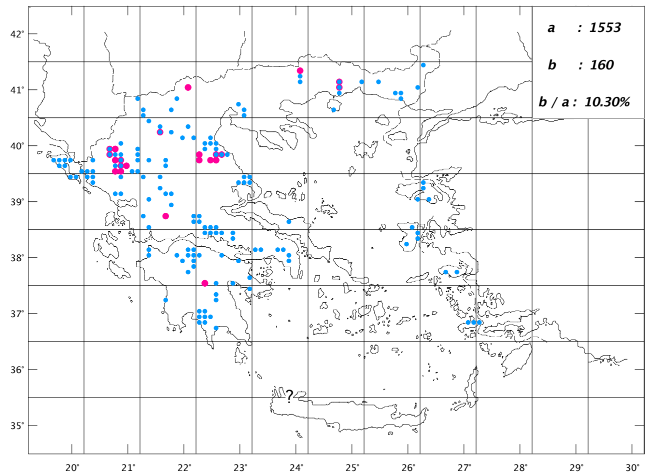


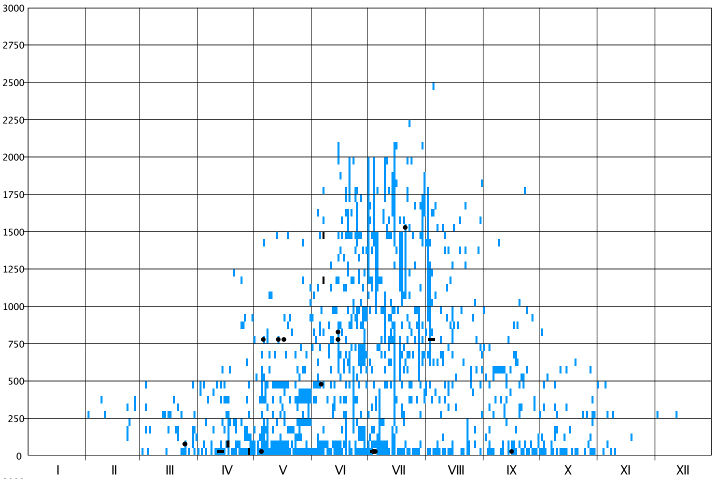


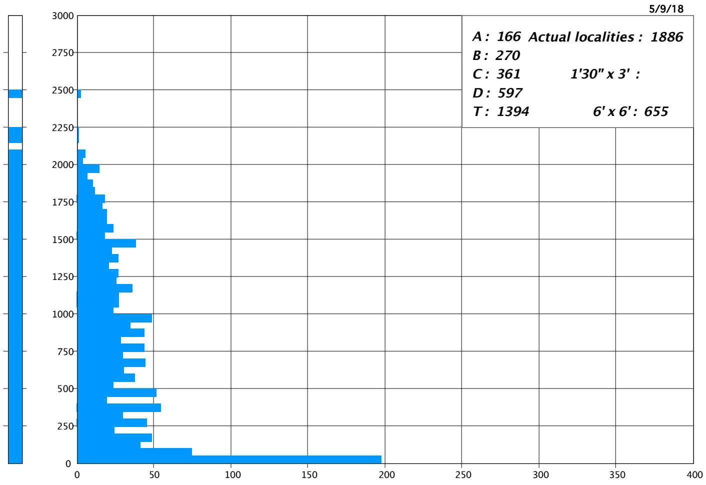


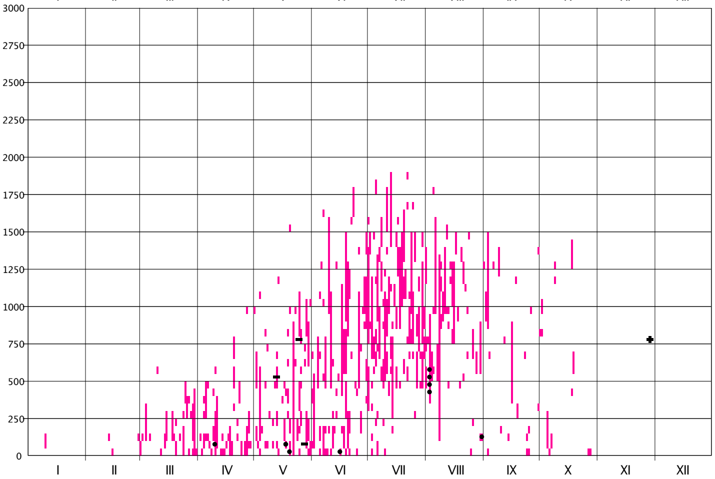
PIERIDAE *Pieris krueperi*

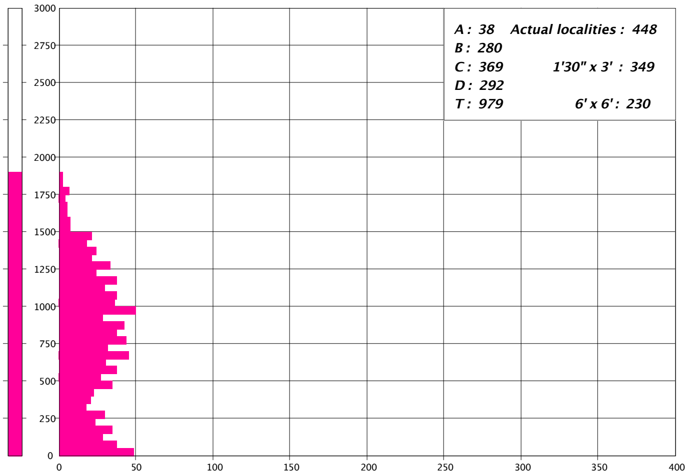


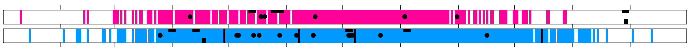




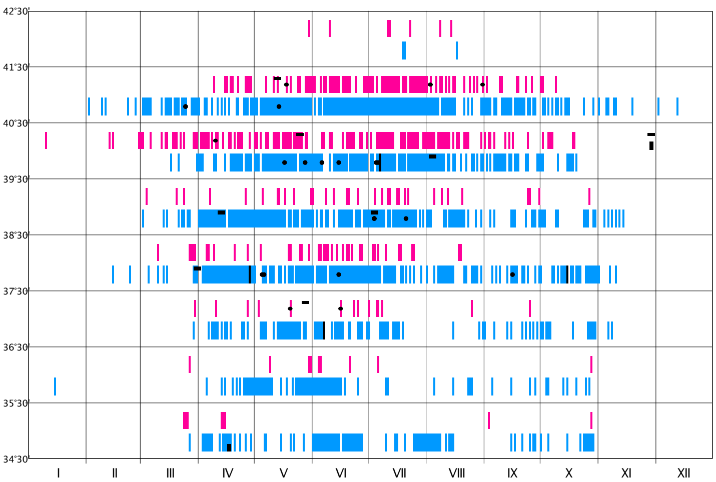


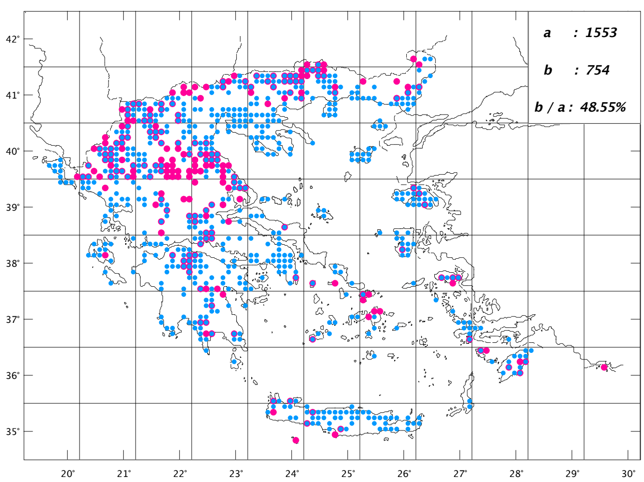


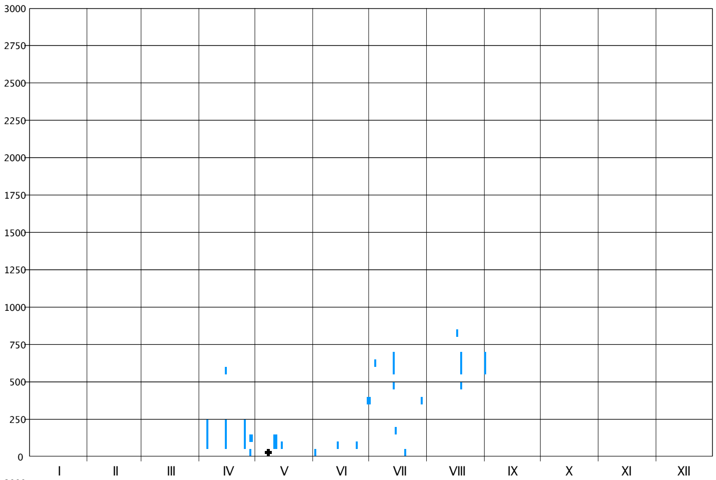


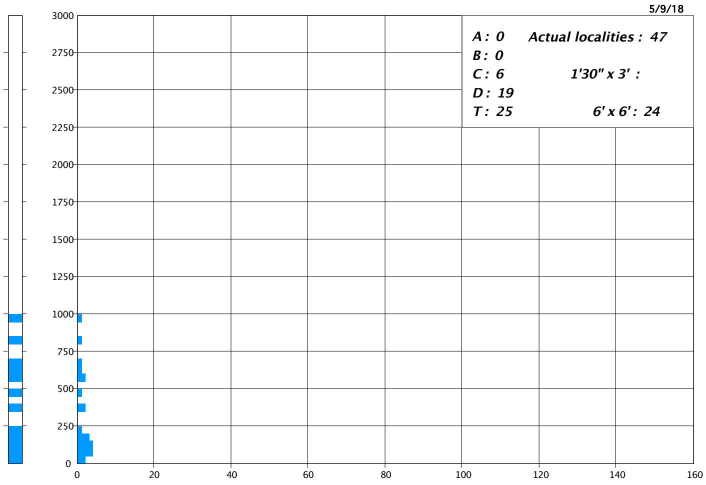


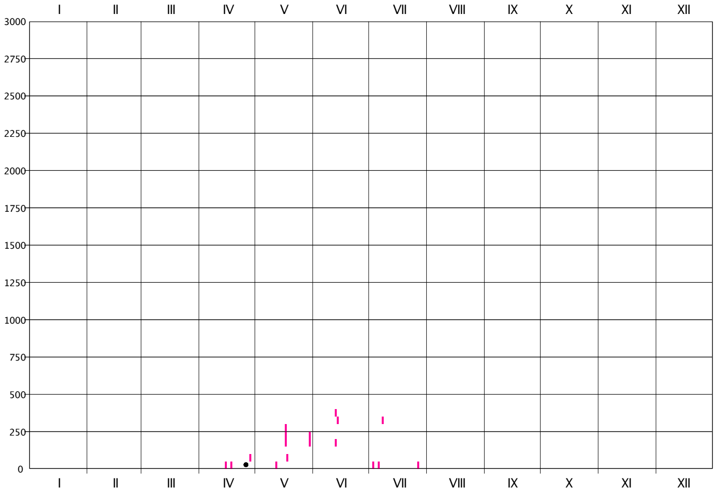
PIERIDAE *Pontia edusa*

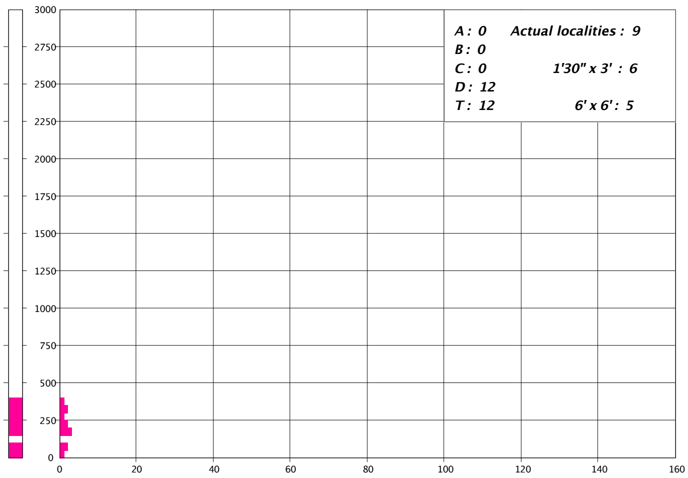


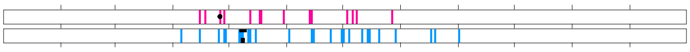




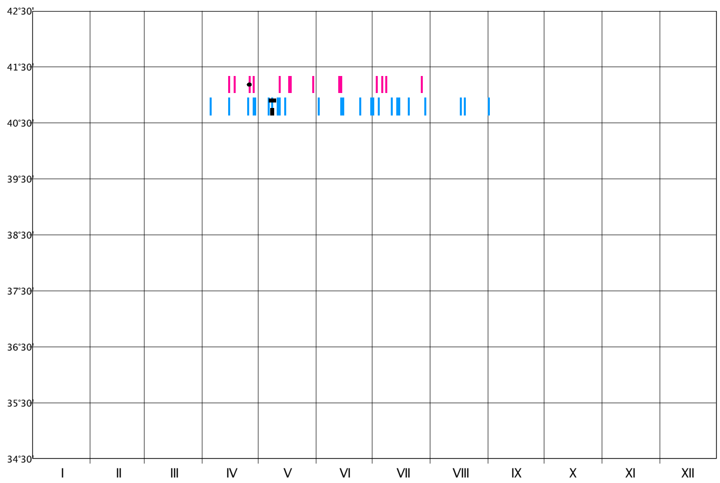


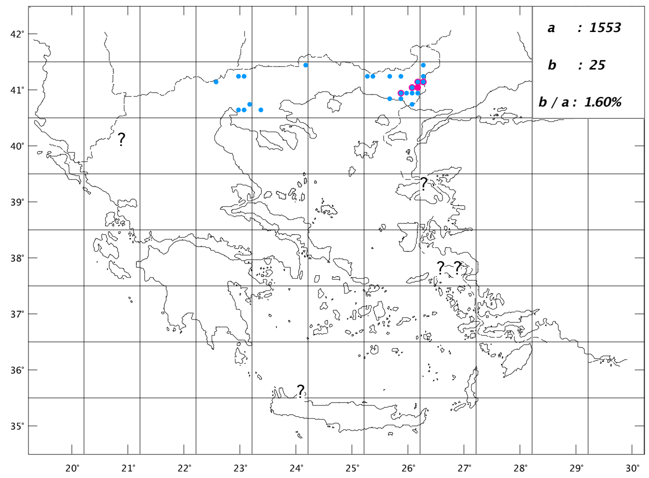






PIERIDAE *Pontia chloridice*





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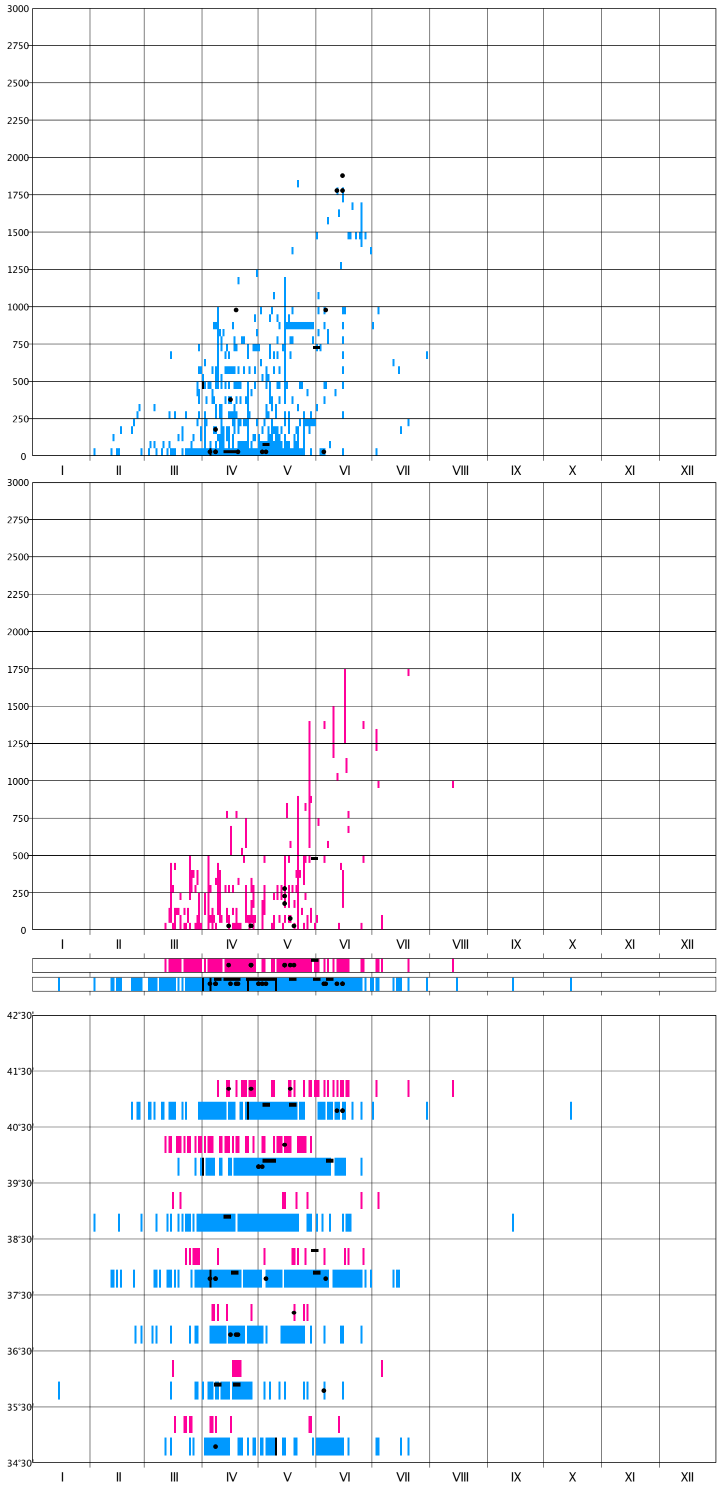
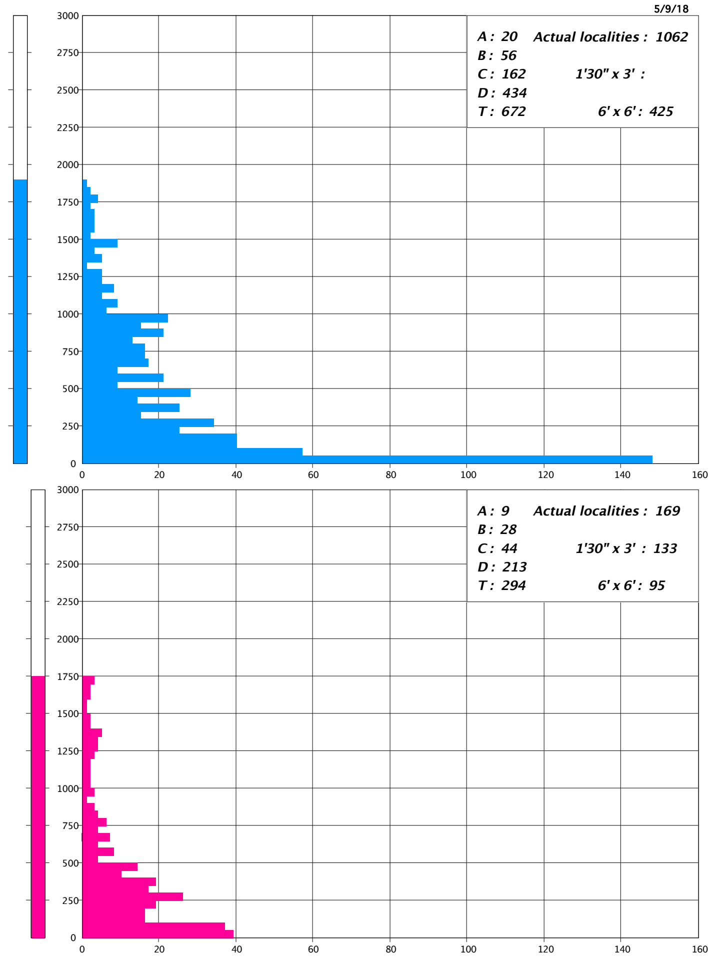
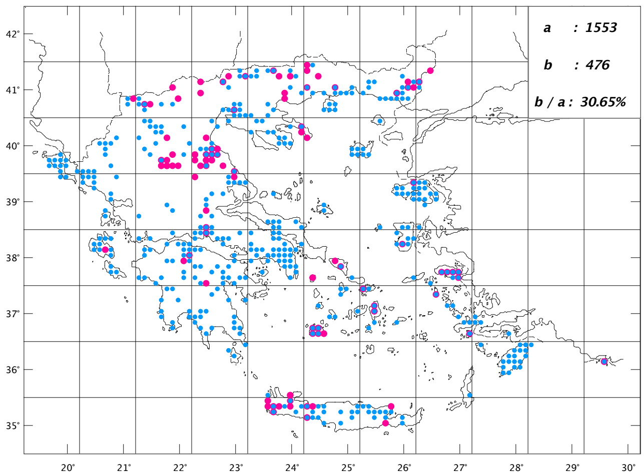
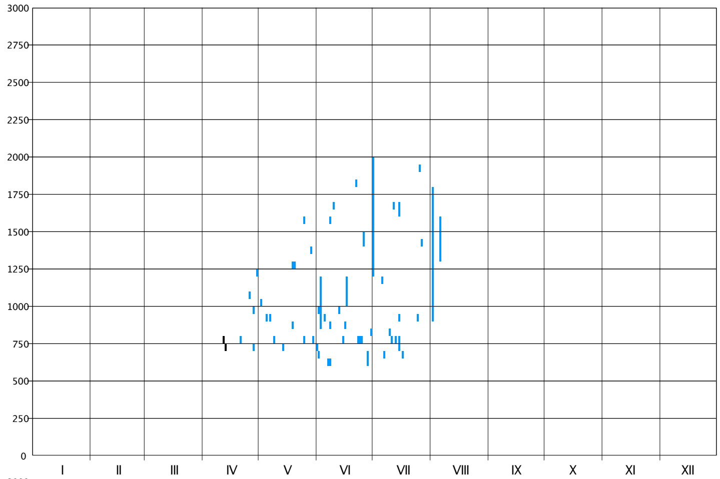


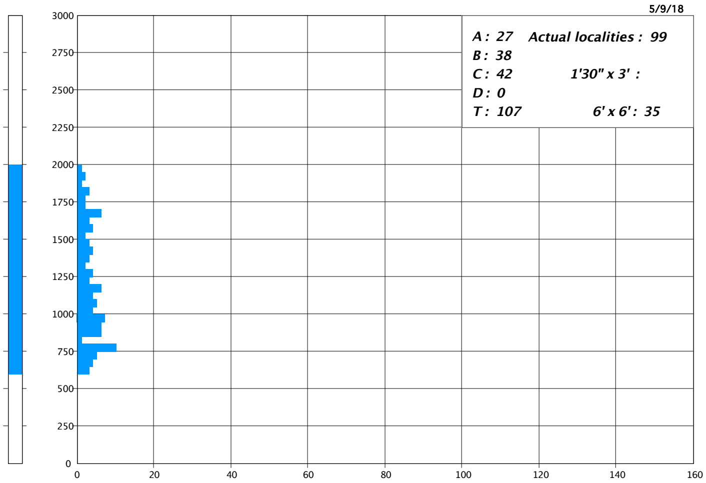


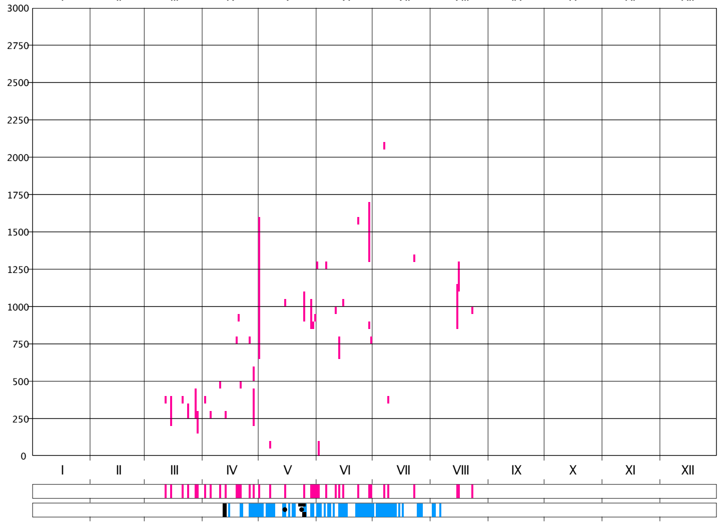
PIERIDAE *Euchloe ausonia*

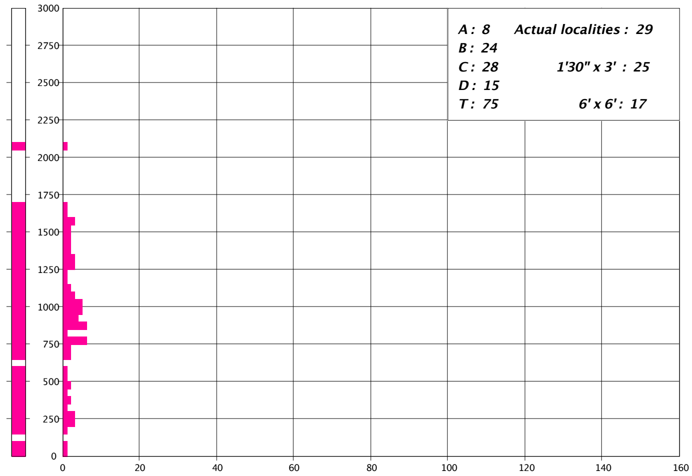


5/9/18

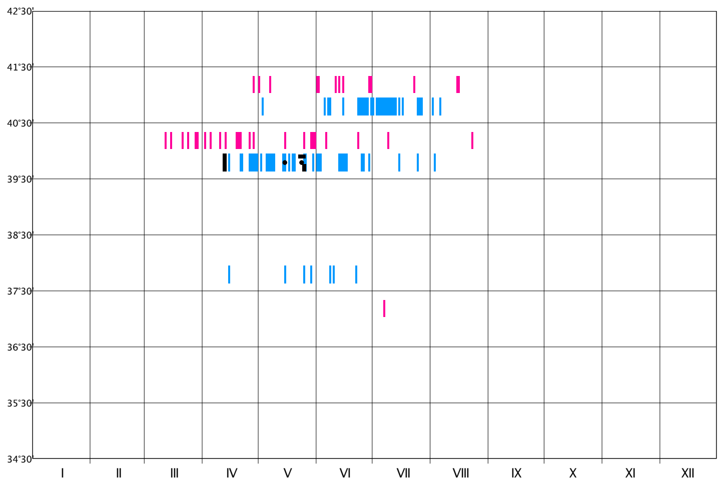


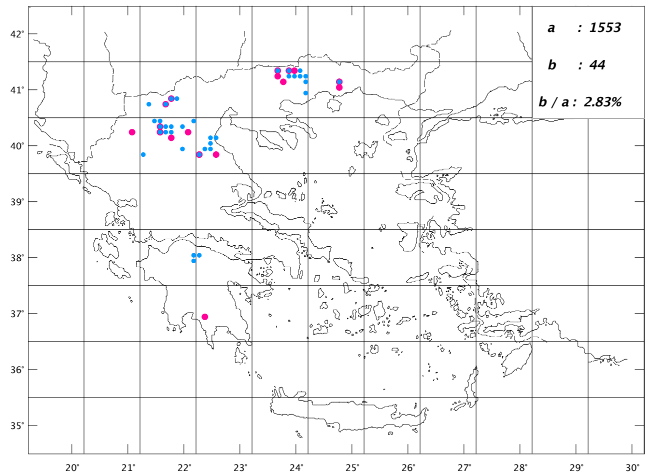


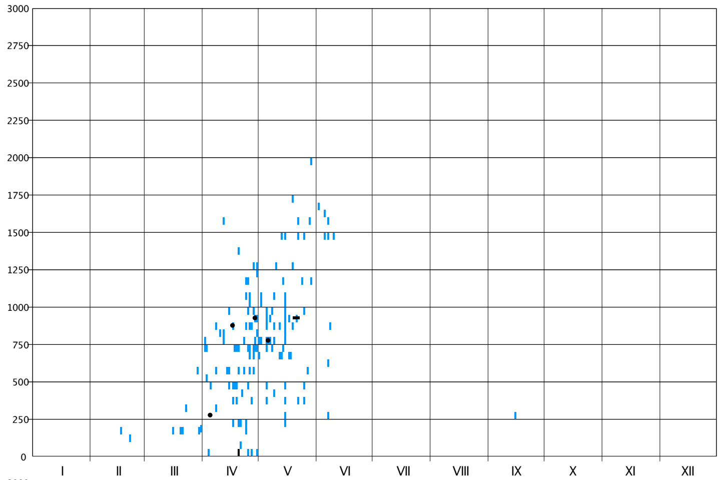


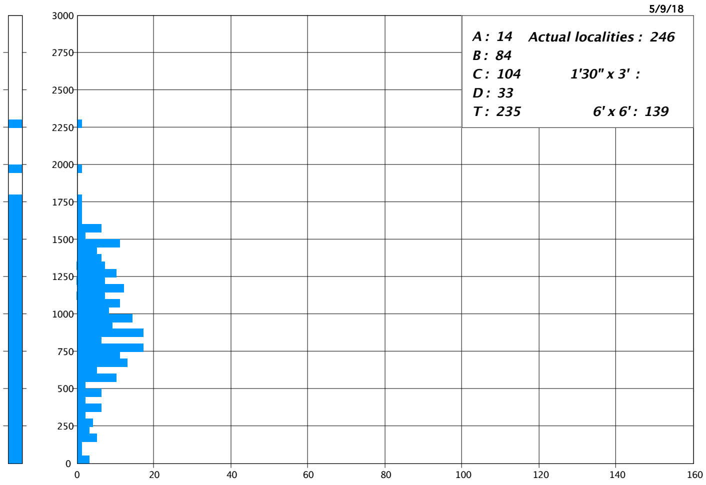


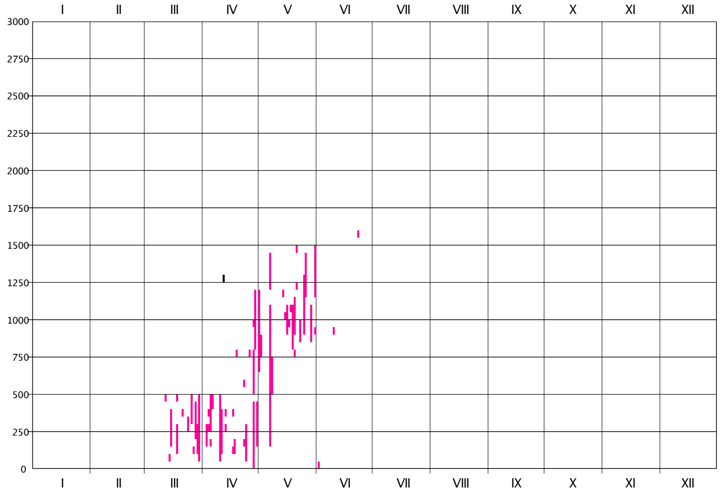
PIERIDAE *Euchloe penia*

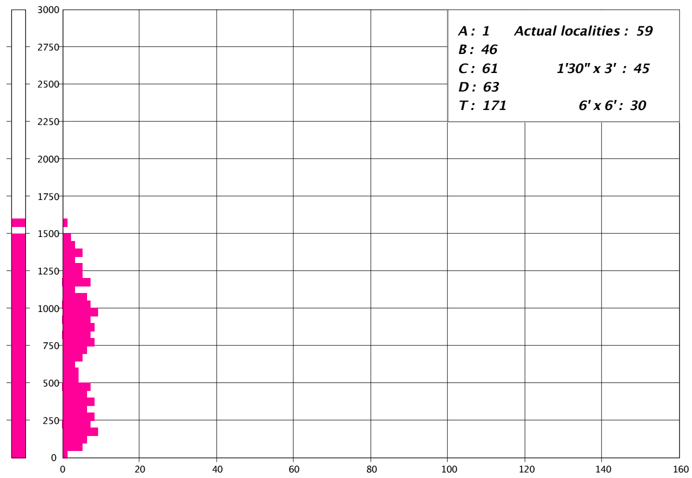


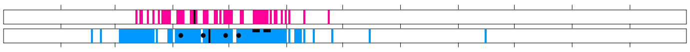




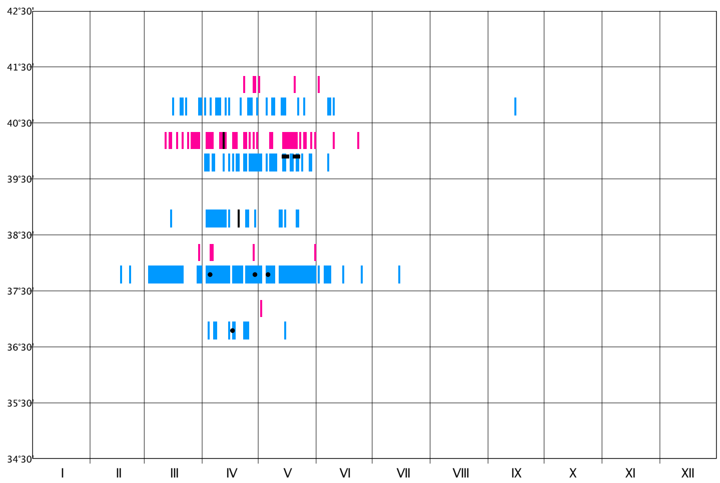


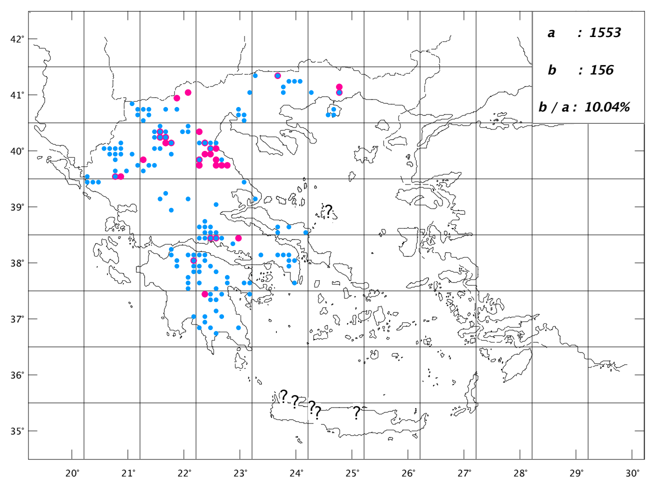


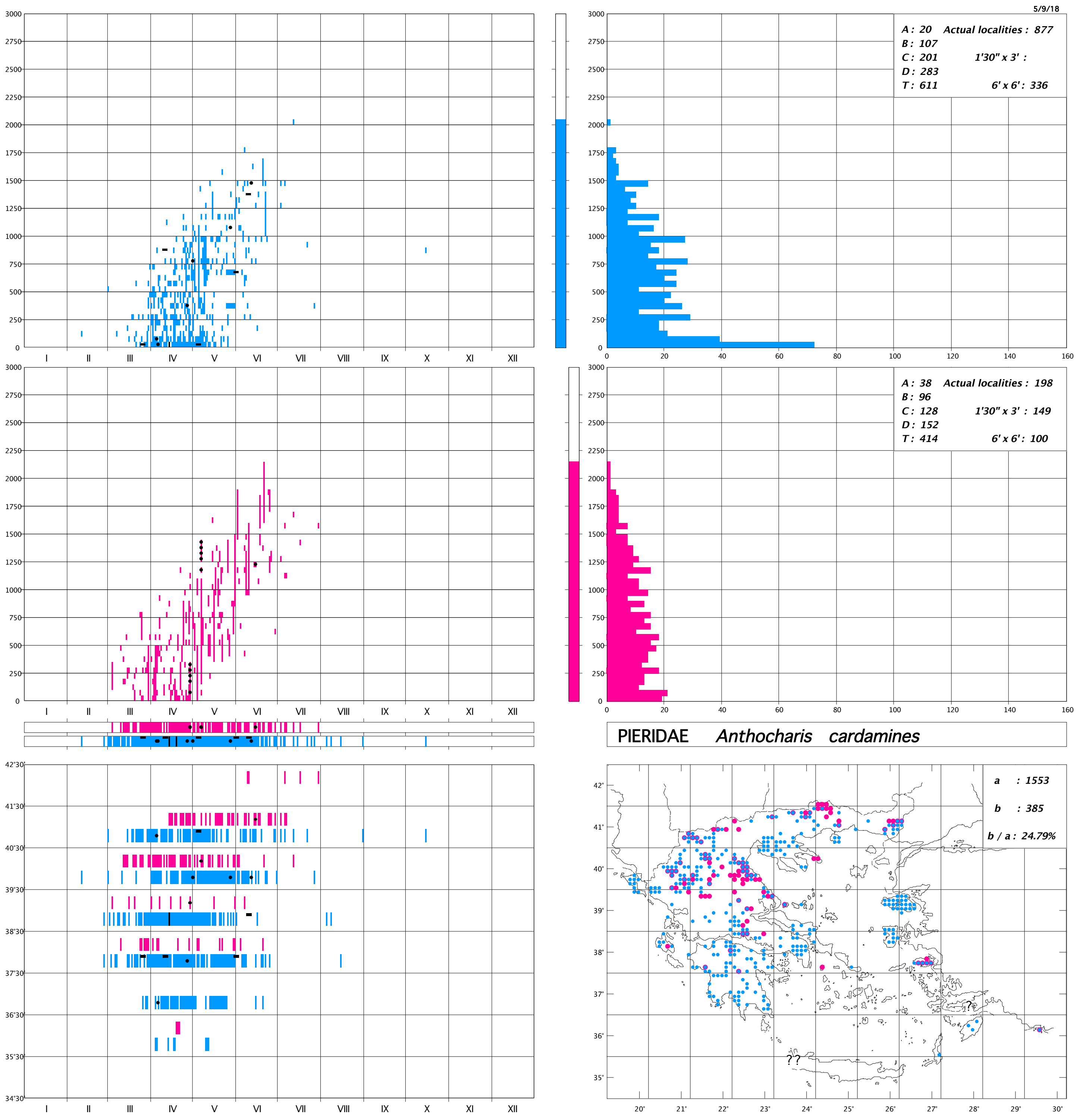


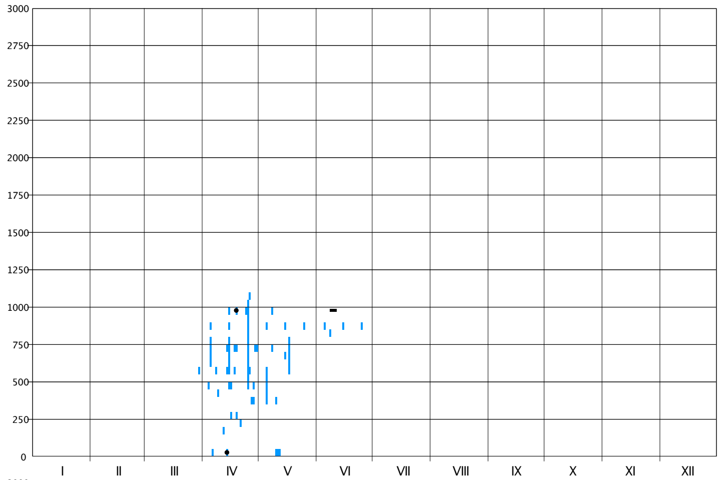


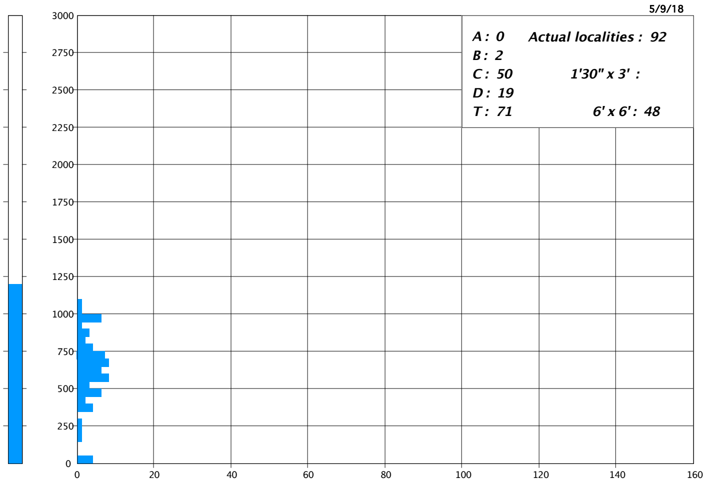
PIERIDAE *Anthocharis gruneri*

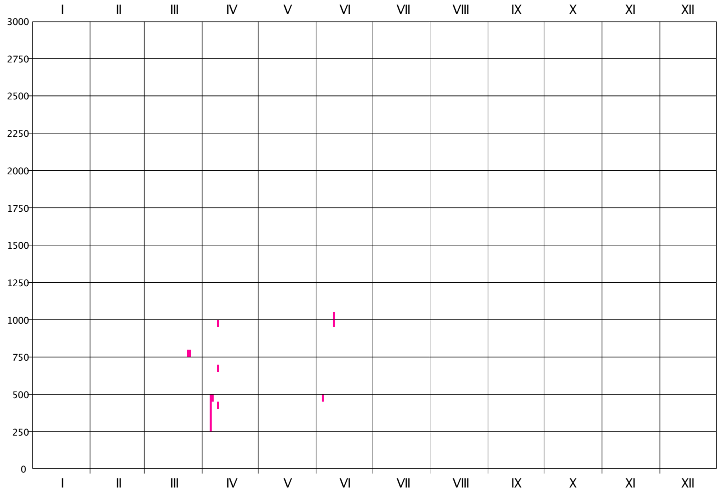


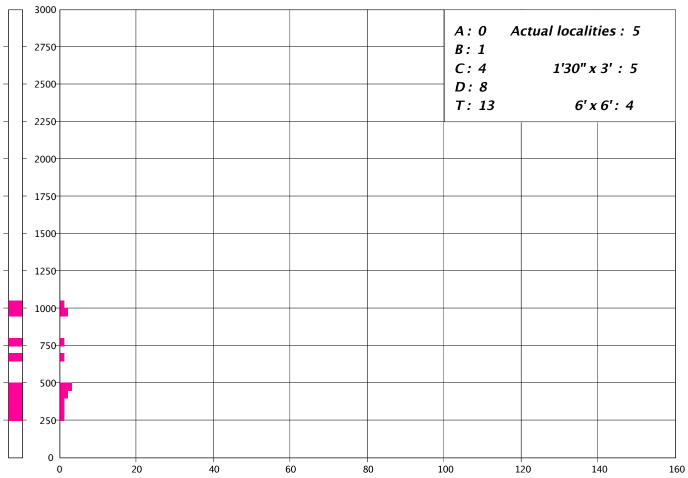


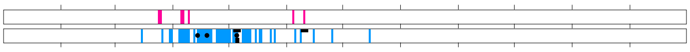

5/9/18
A : 20 Actual localities : 877
B : 107
C : 201 1'30" x 3' :
D : 283
T : 611 6' x 6' : 336
A : 38 Actual localities : 198
B : 96
C : 128 1'30" x 3' : 149
D : 152
T : 414 6' x 6' : 100
PIERIDAE Anthocharis cardamines
a : 1553
b : 385
b / a : 24.79%
I II III IV V VI VII VIII IX X XI XII
3000 2750 2500 2250 2000 1750 1500 1250 1000 750 500 250 0
0 20 40 60 80 100 120 140 160
42°30' 41°30' 40°30' 39°30' 38°30' 37°30' 36°30' 35°30' 34°30'
42° 41° 40° 39° 38° 37° 36° 35°
20° 21° 22° 23° 24° 25° 26° 27° 28° 29° 30°
??



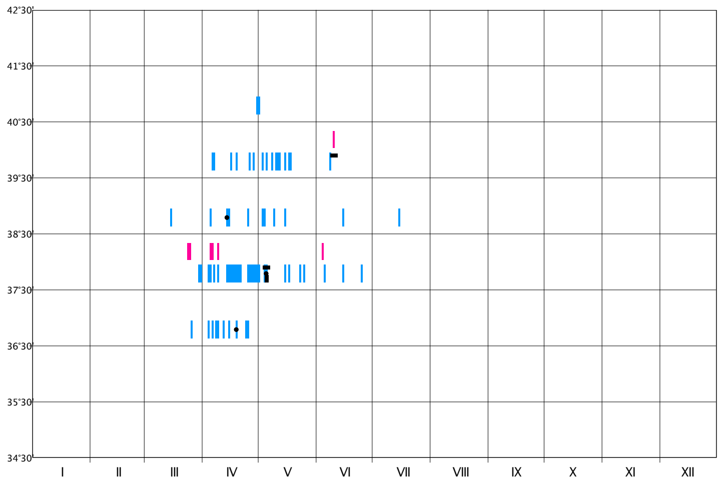


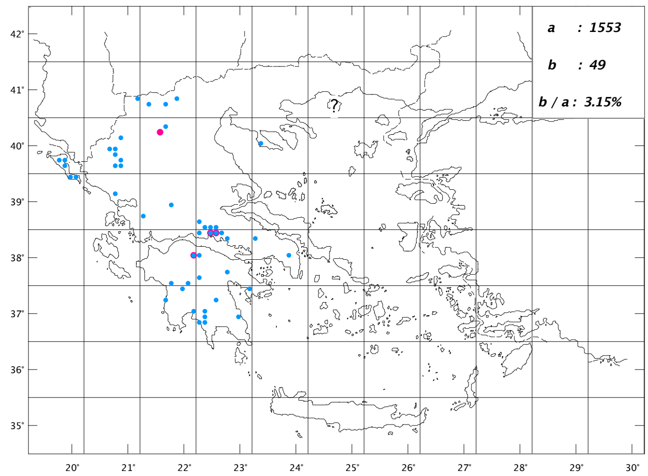


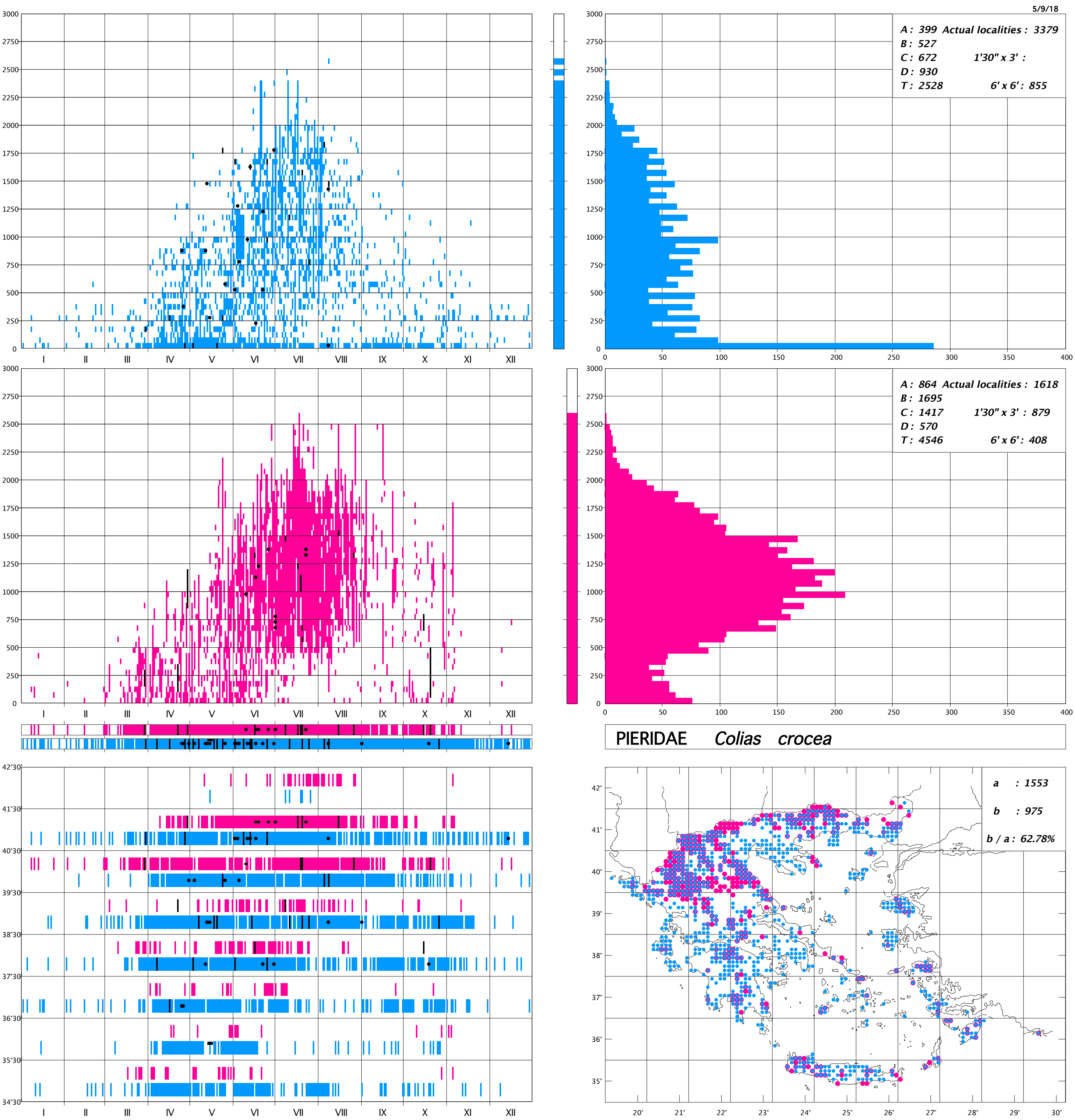


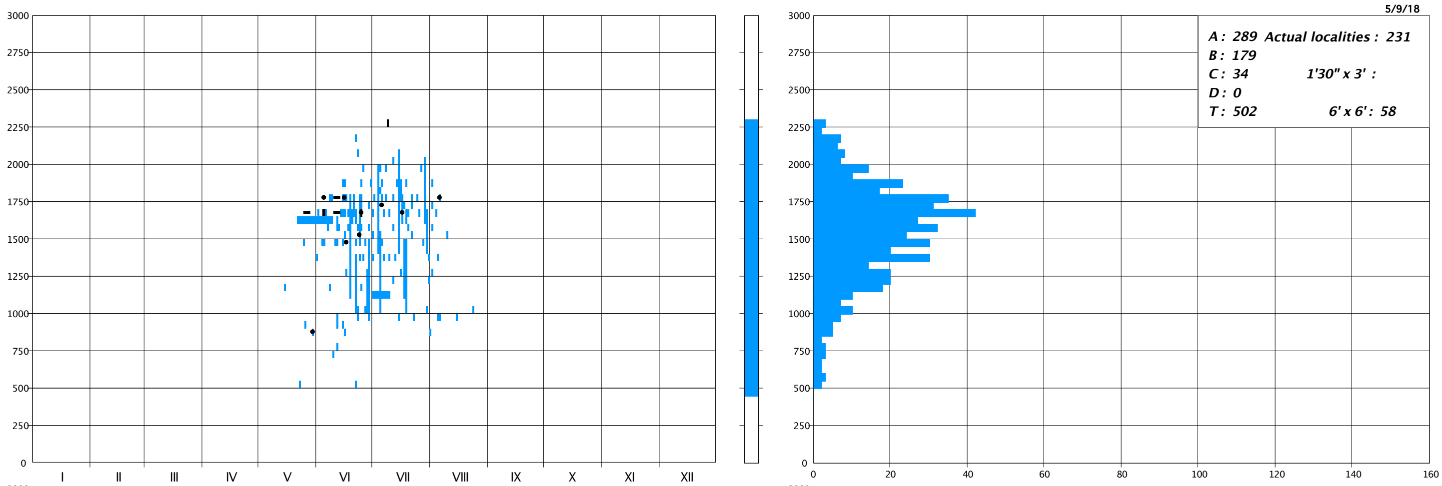


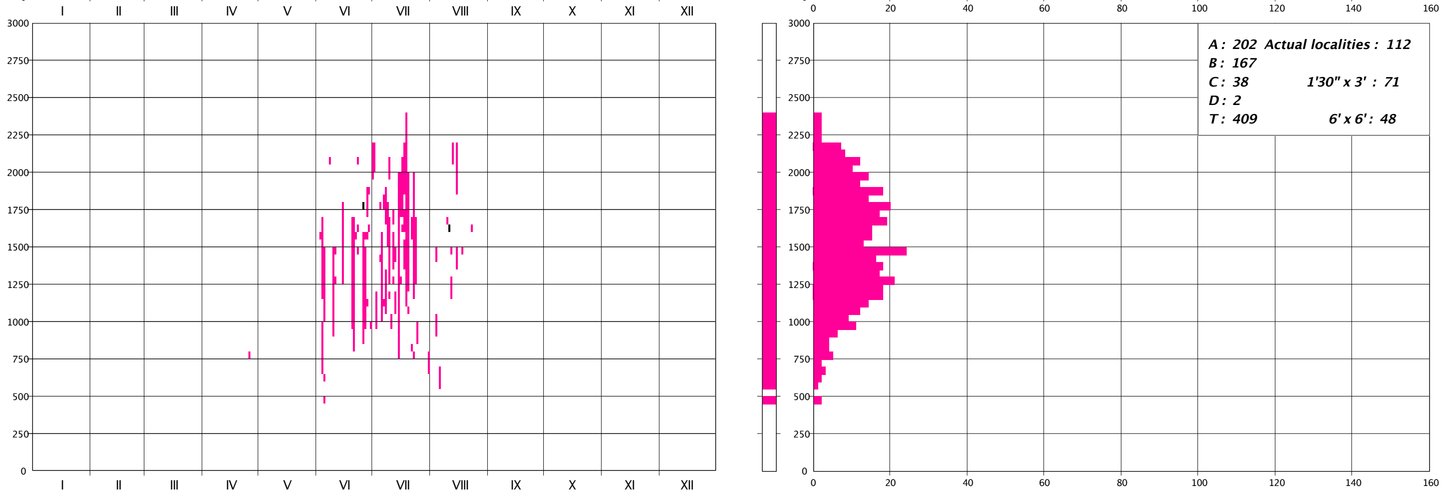
PIERIDAE *Anthocharis damone*

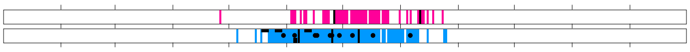




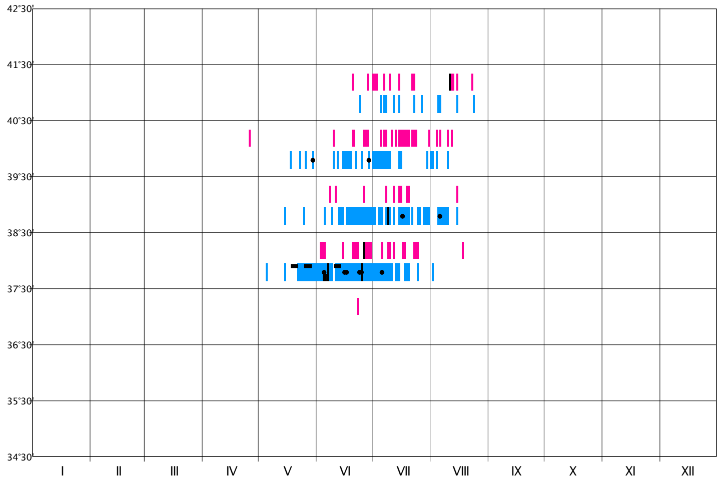

5/9/18
A : 399 Actual localities : 3379
B : 527
C : 672 1'30" x 3' :
D : 930
T : 2528 6' x 6' : 855
A : 864 Actual localities : 1618
B : 1695
C : 1417 1'30" x 3' : 879
D : 570
T : 4546 6' x 6' : 408
PIERIDAE *Colias crocea*
a : 1553
b : 975
b / a : 62.78%

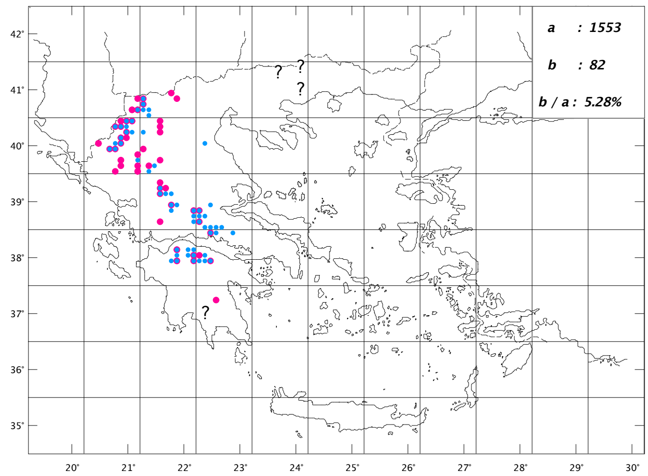


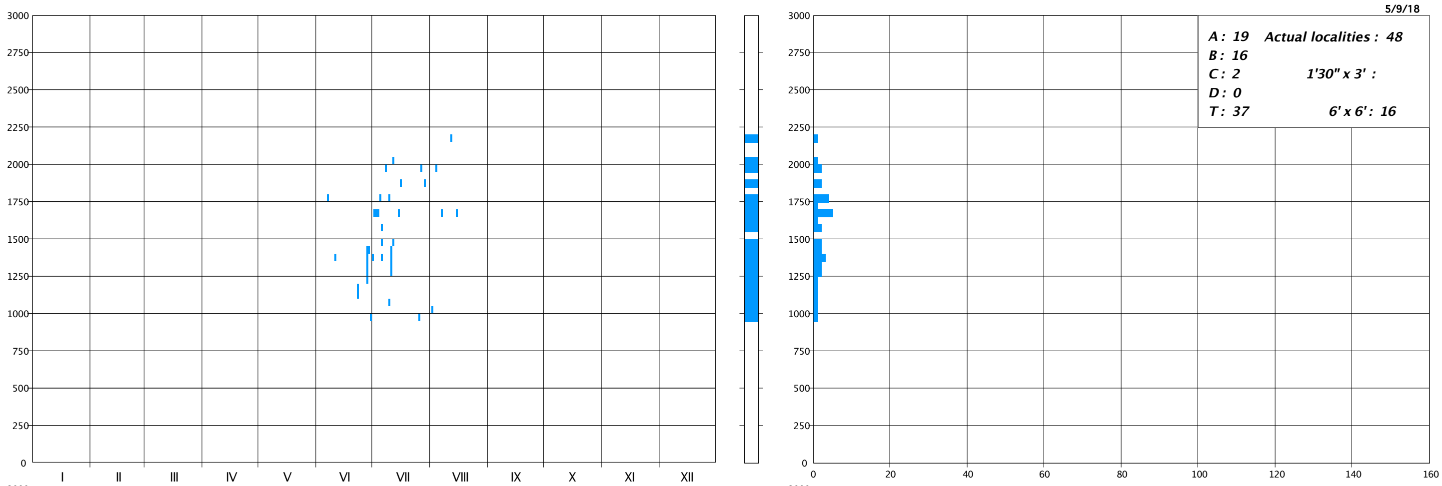


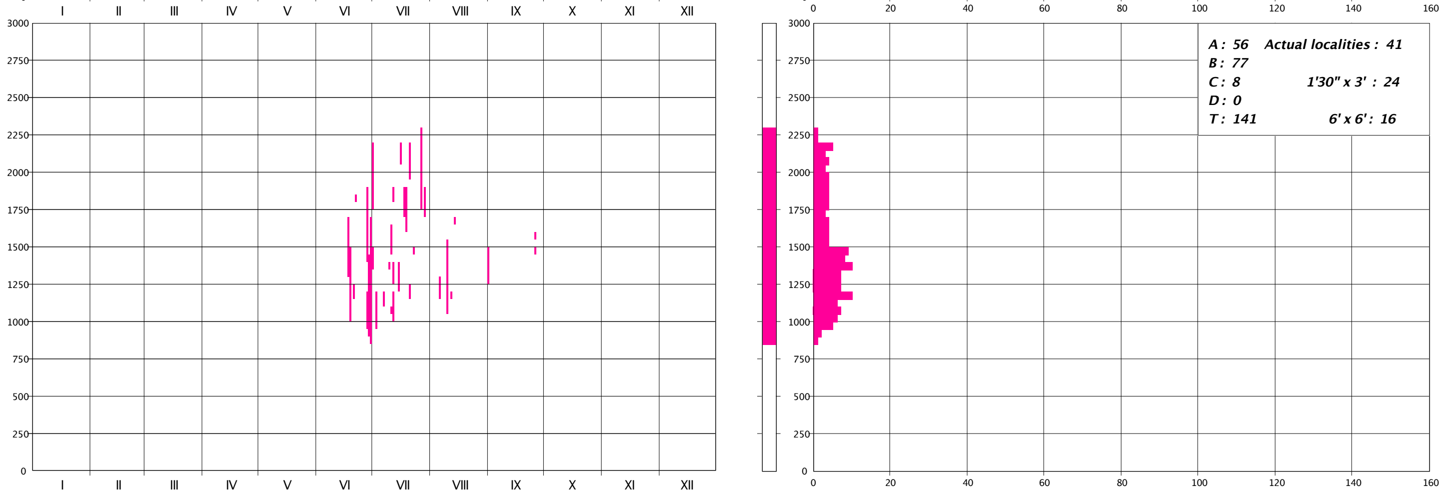


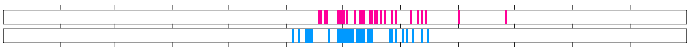
PIERIDAE *Colias aurorina*



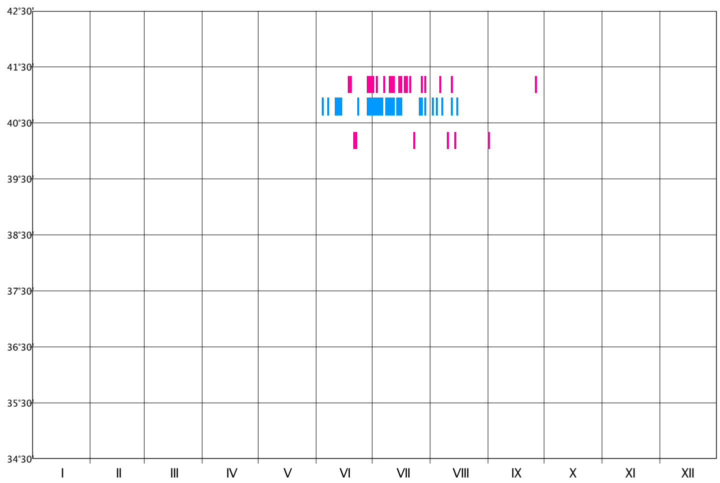


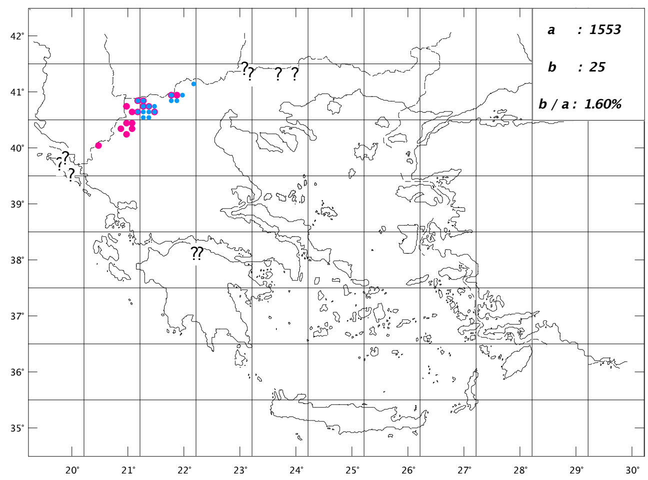


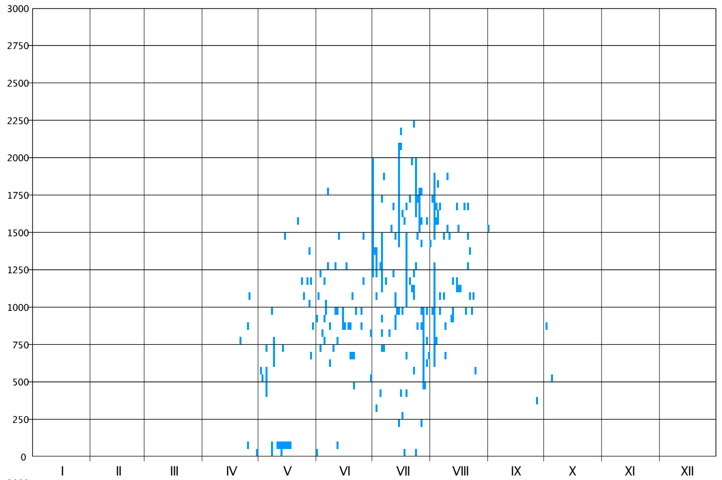


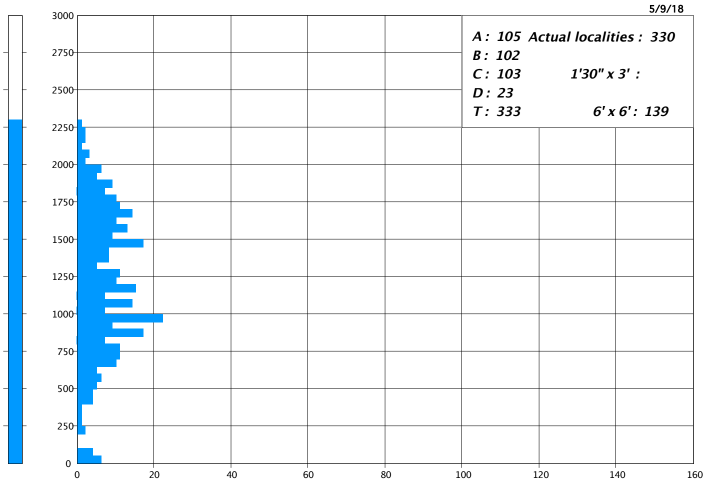


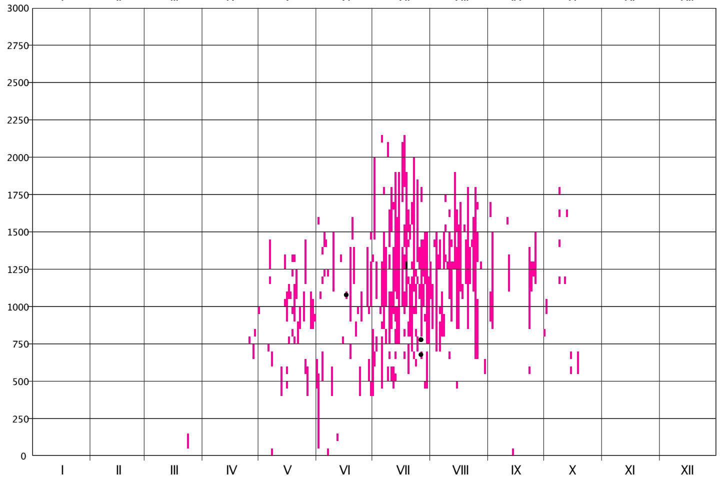
PIERIDAE *Colias caucasica*

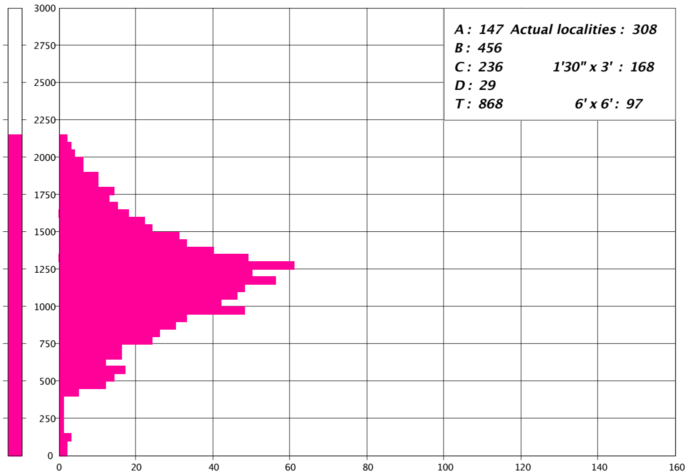




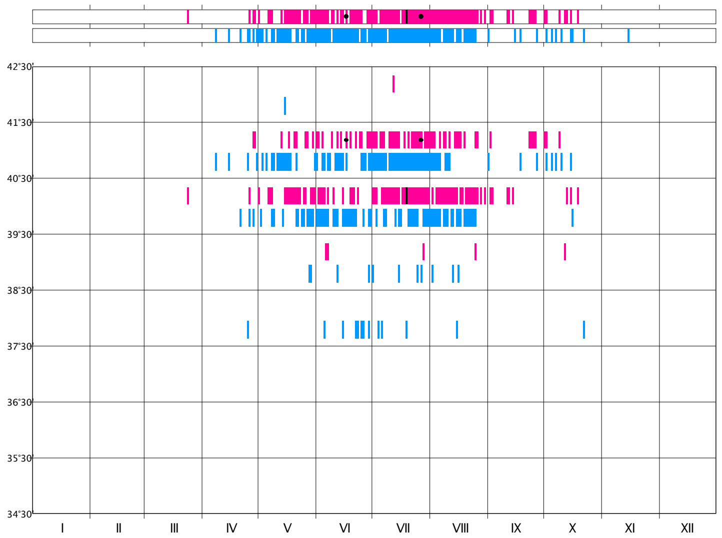


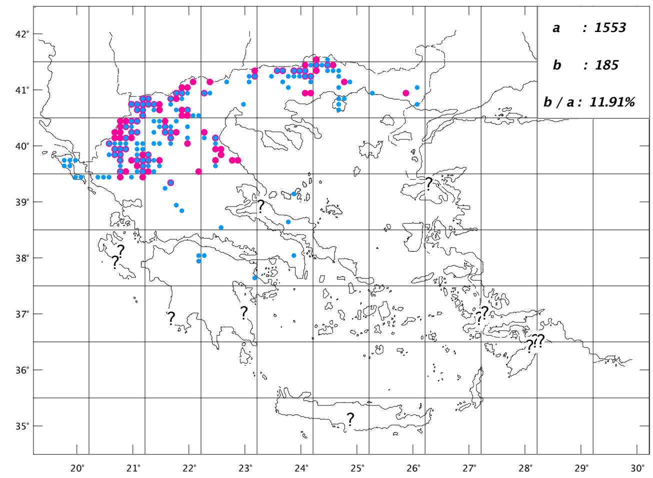


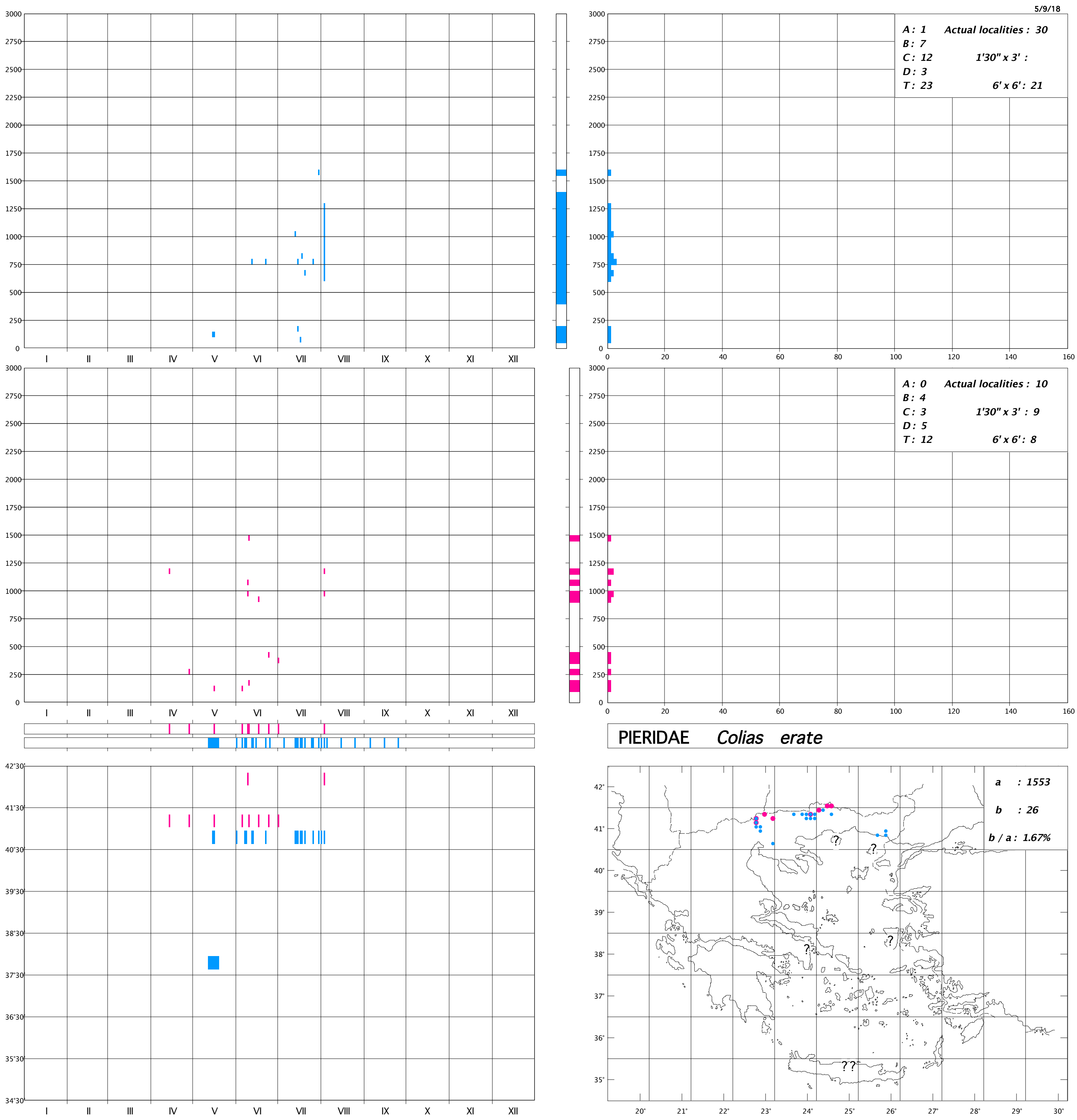




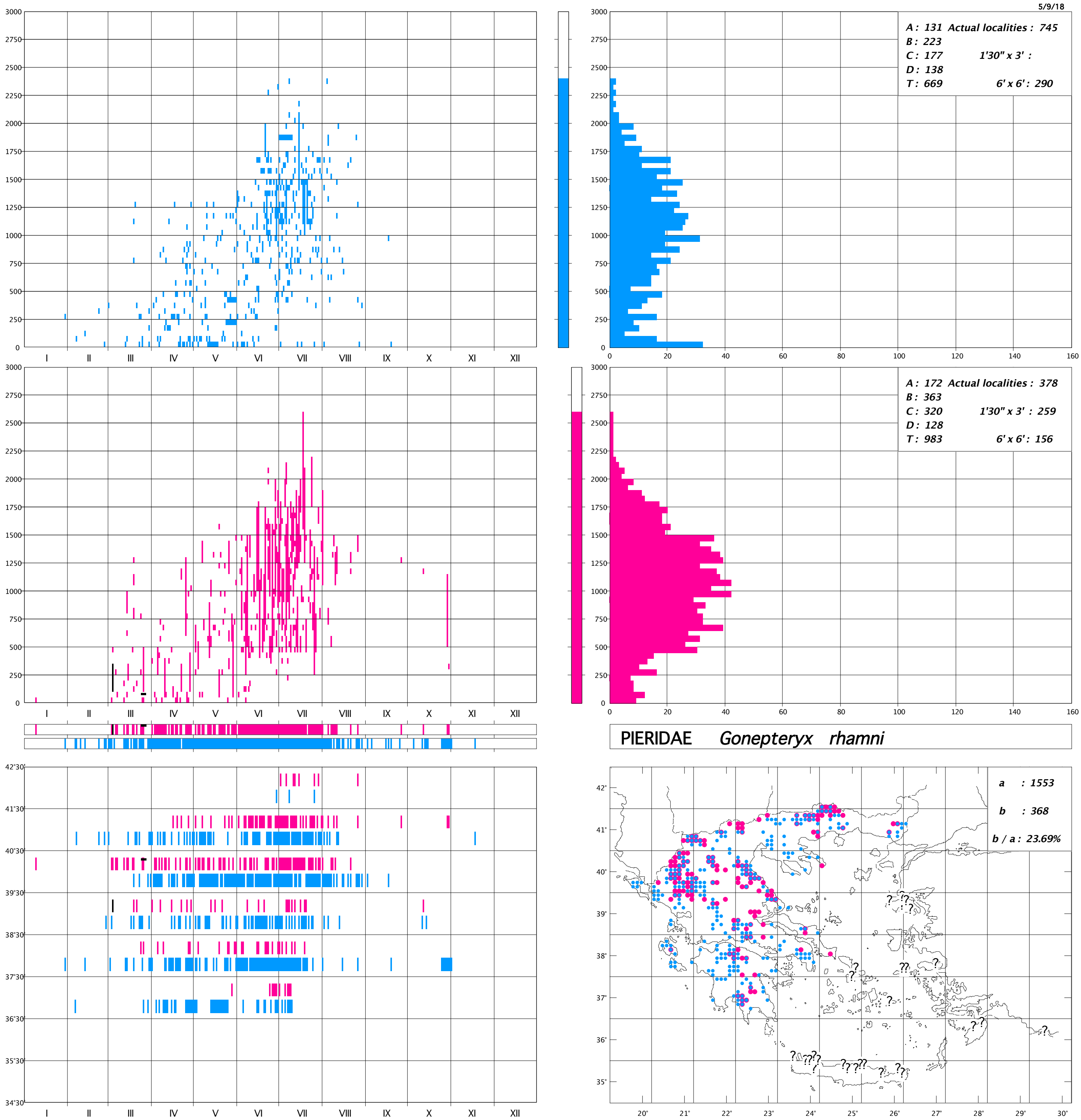
PIERIDAE *Colias alfacariensis*



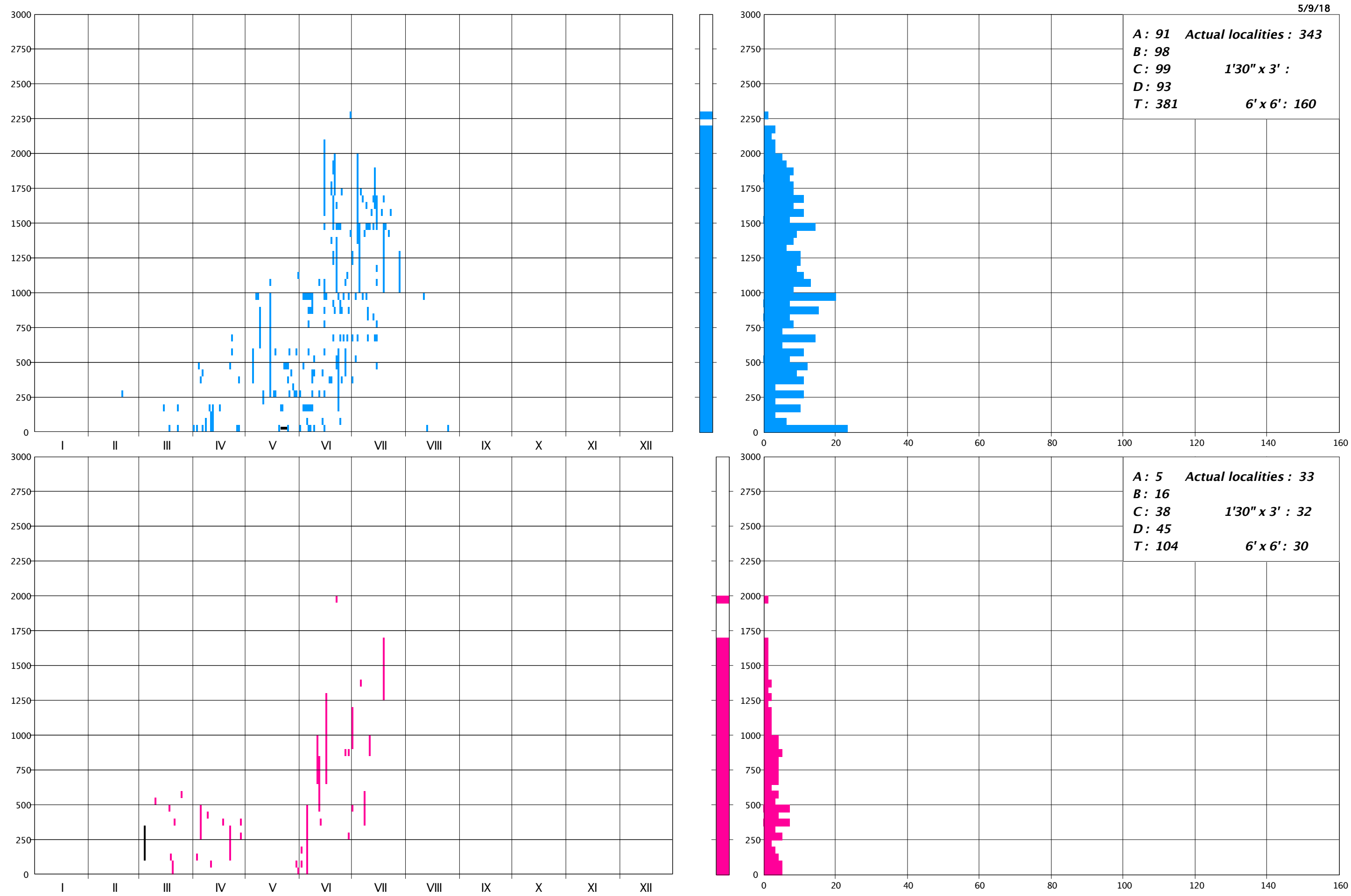


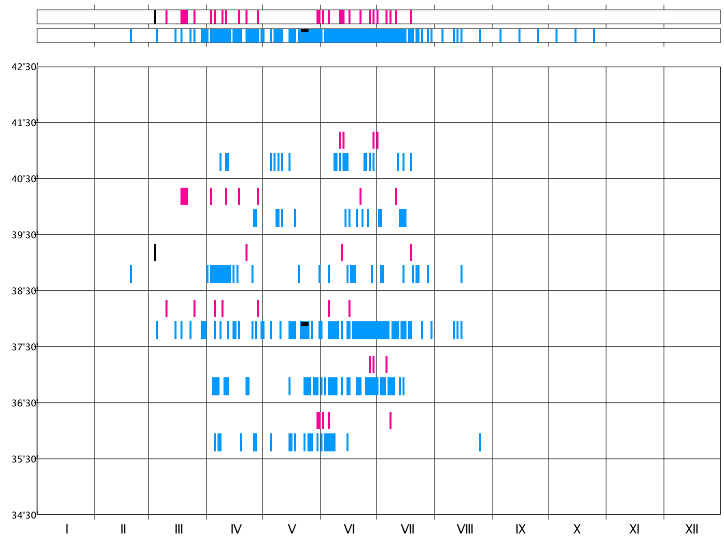


Αμφίβολη αναγνώριση / Identification uncertain

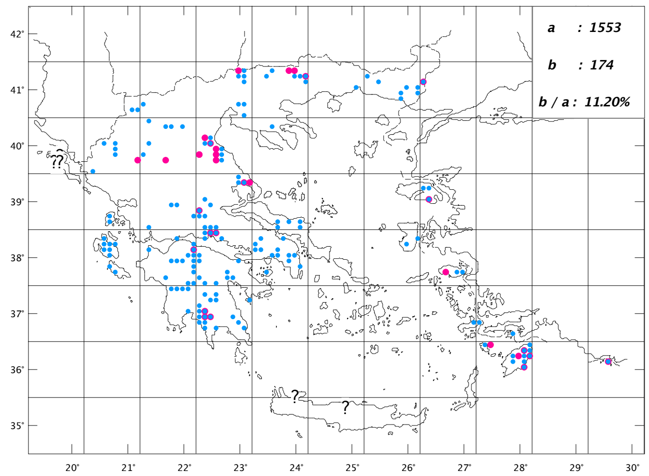


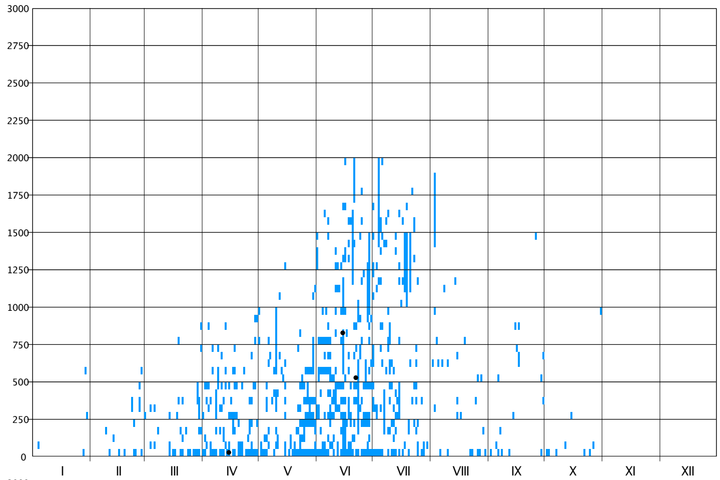
PIERIDAE *Gonepteryx rhamni*

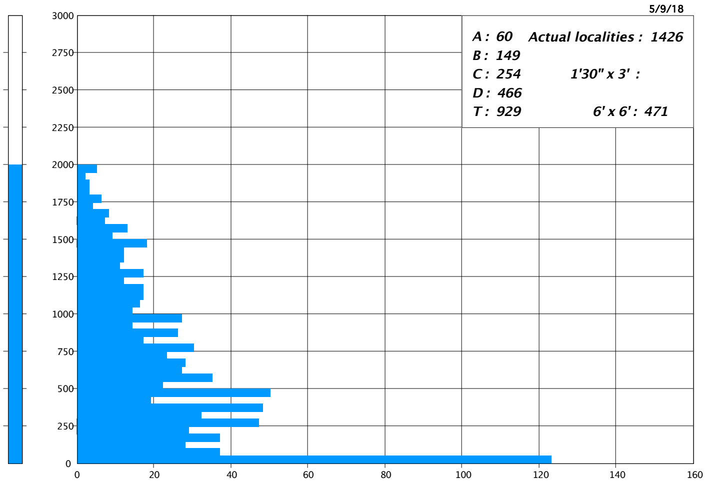


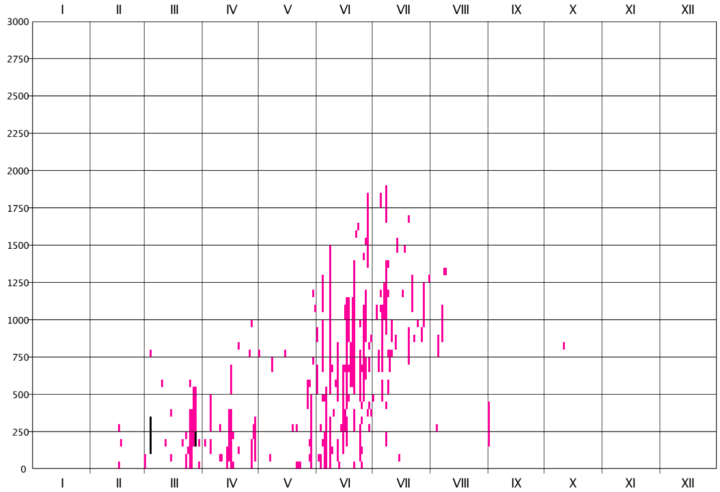


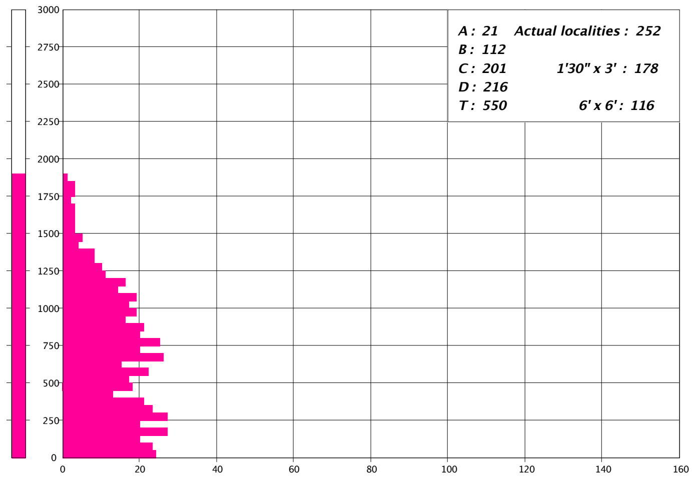
PIERIDAE *Gonepteryx farinosa*

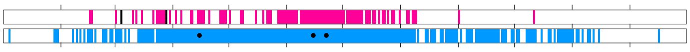




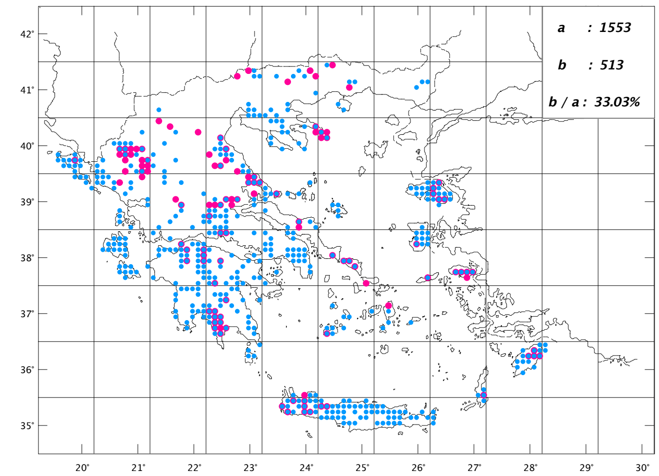


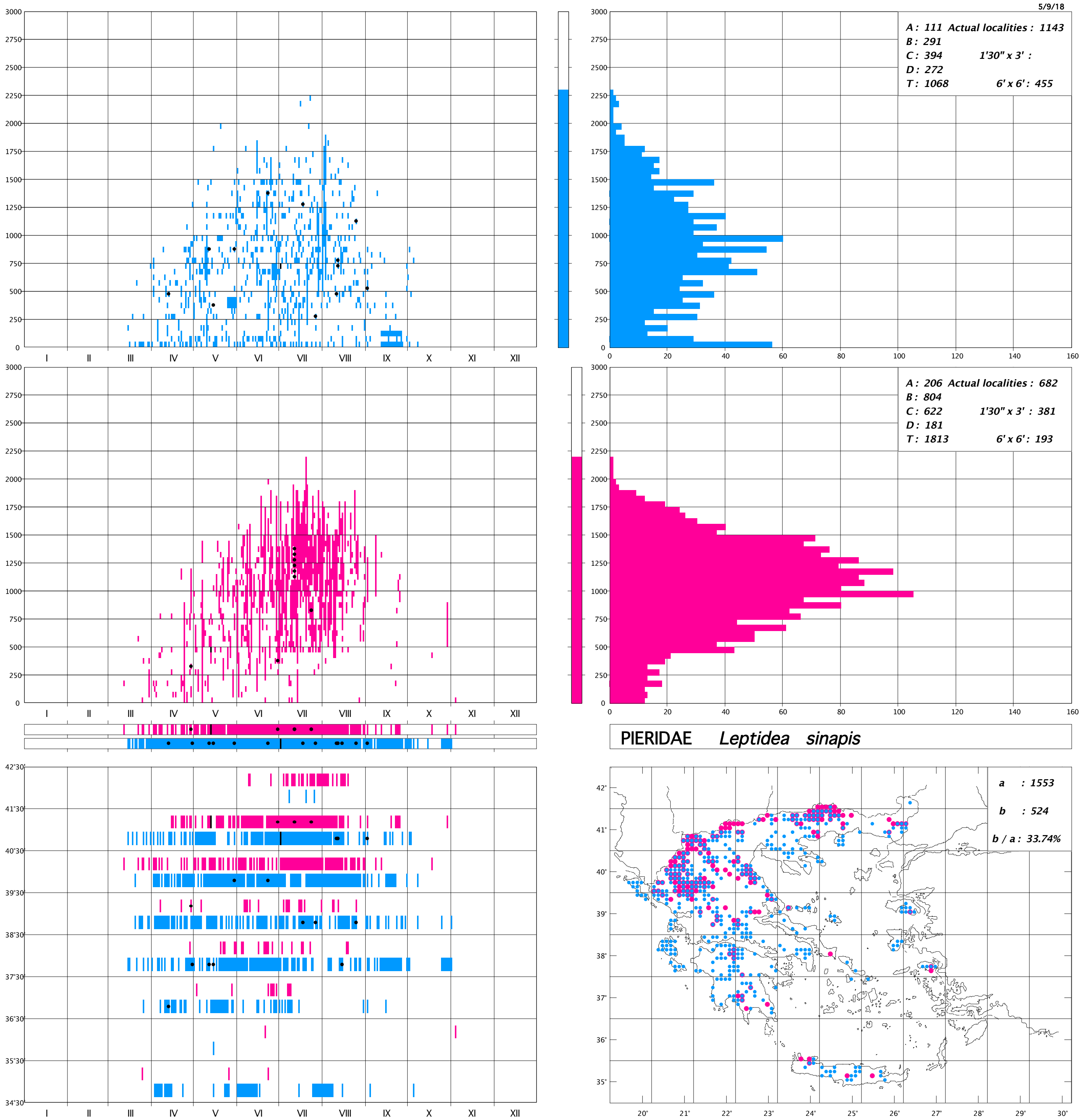




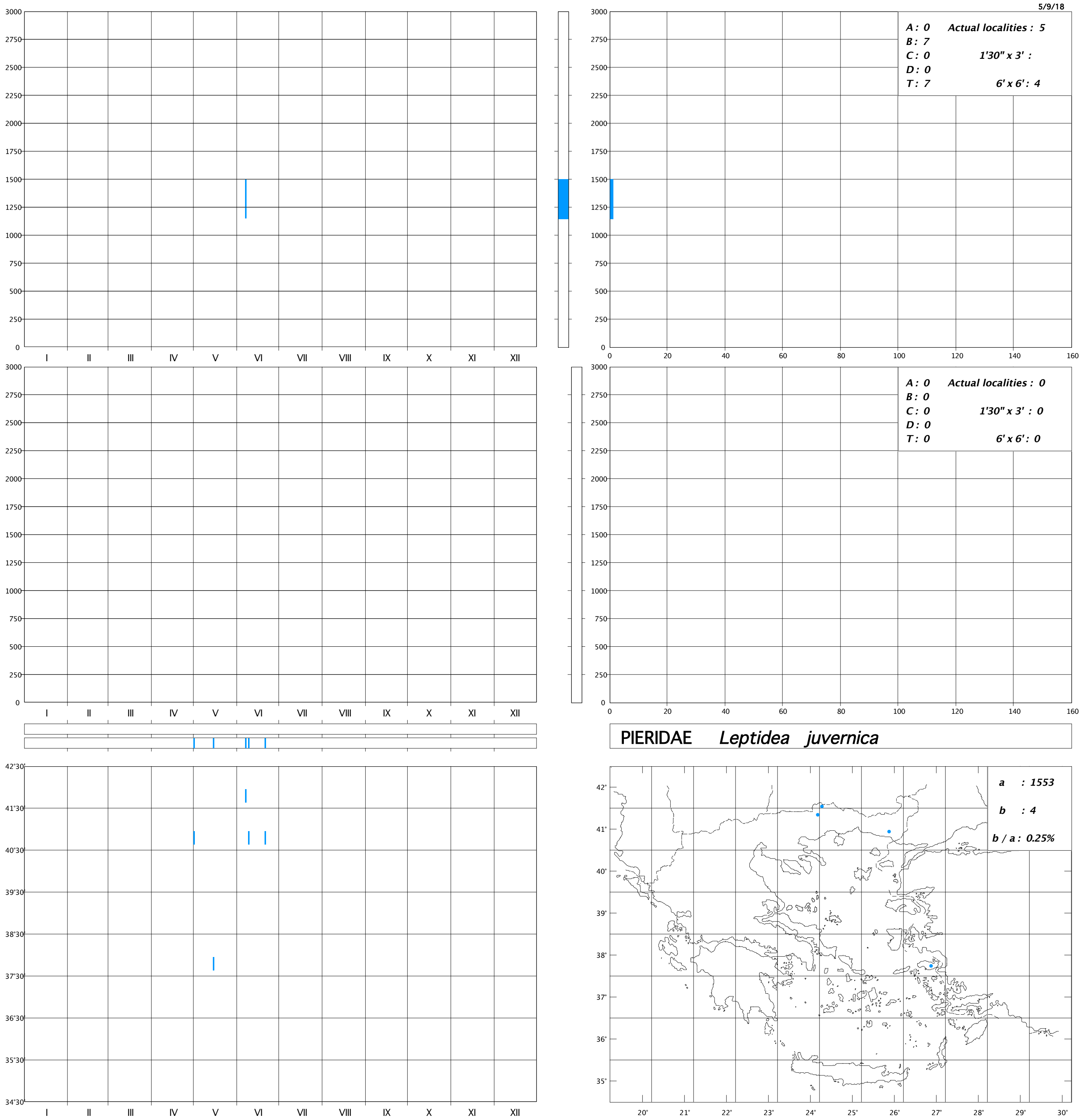


PIERIDAE *Gonepteryx cleopatra*





Αμφίβολη αναγνώριση / Identification uncertain



Αμφίβολη αναγνώριση / Identification uncertain

The name *Leptidea juvernica* is used now instead of *Leptidea reali*

Το όνομα *Leptidea juvernica* χρησιμοποιείται τώρα αντί του *Leptidea reali*

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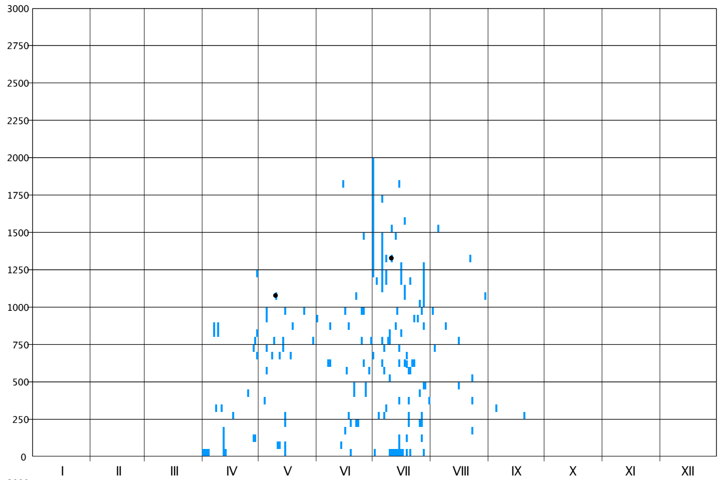
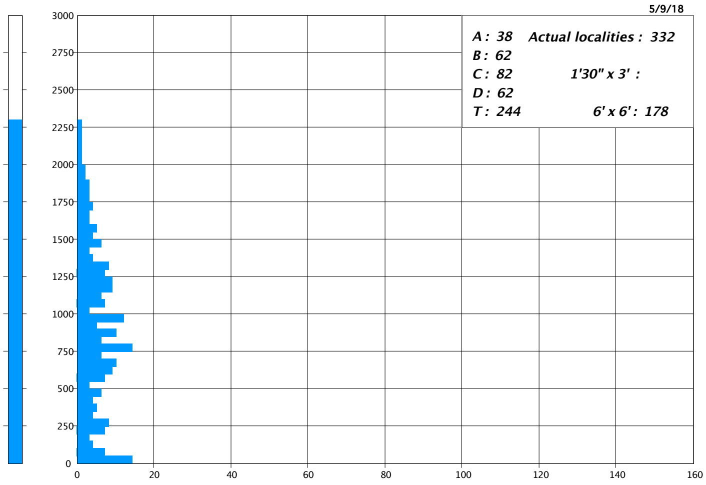
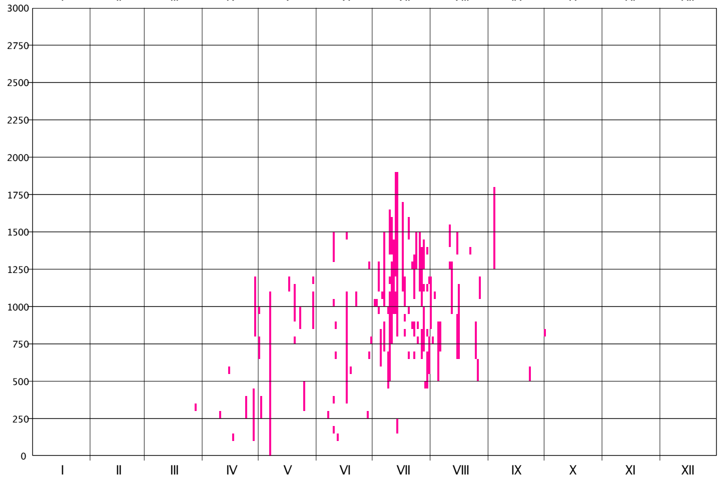
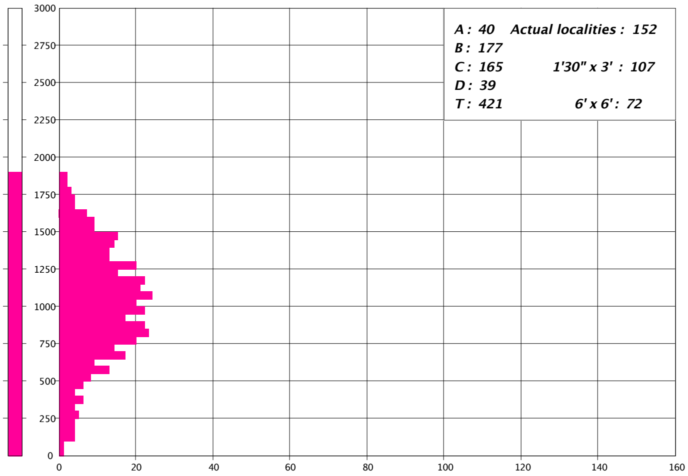
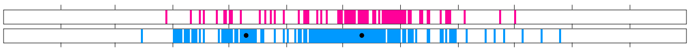


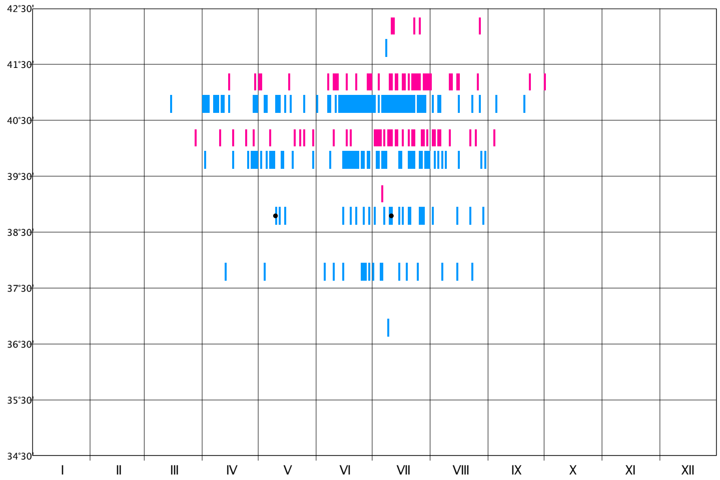


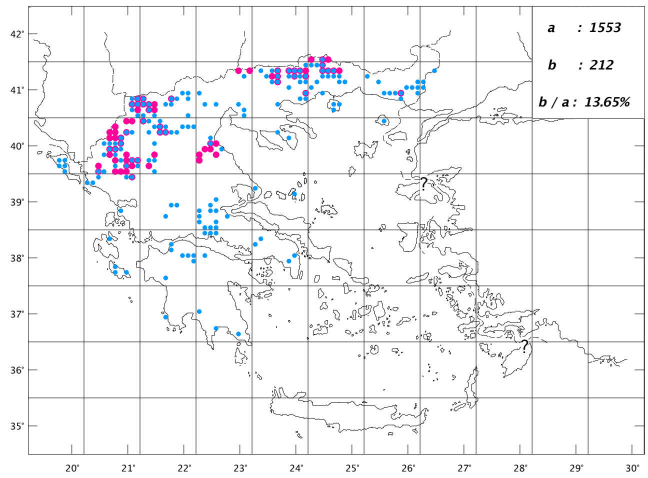






PIERIDAE *Leptidea duponcheli*





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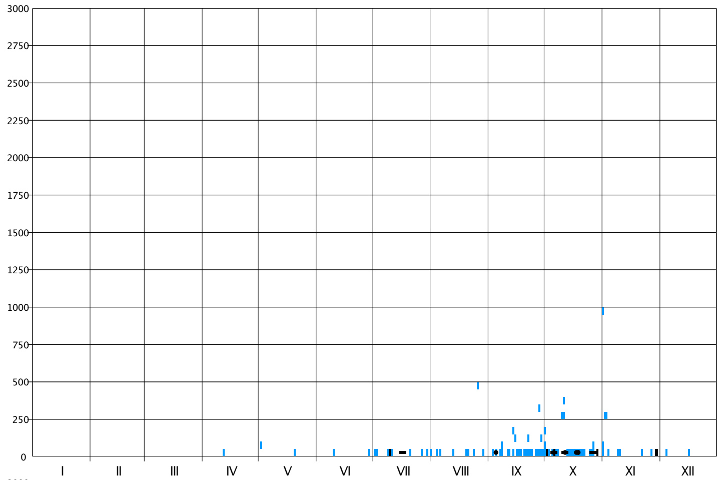
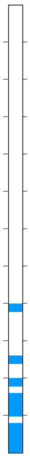
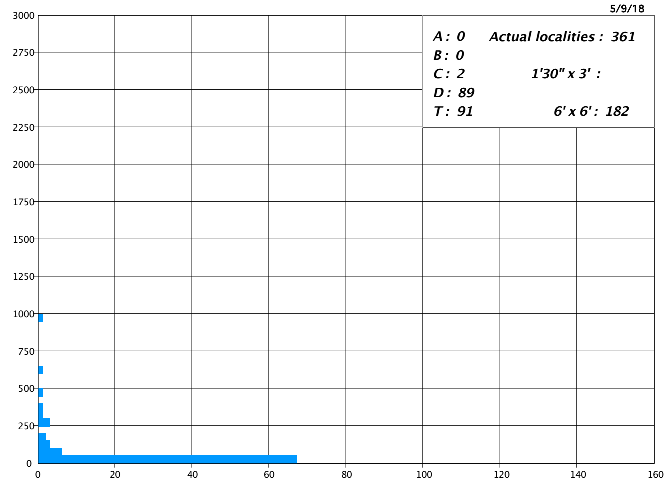
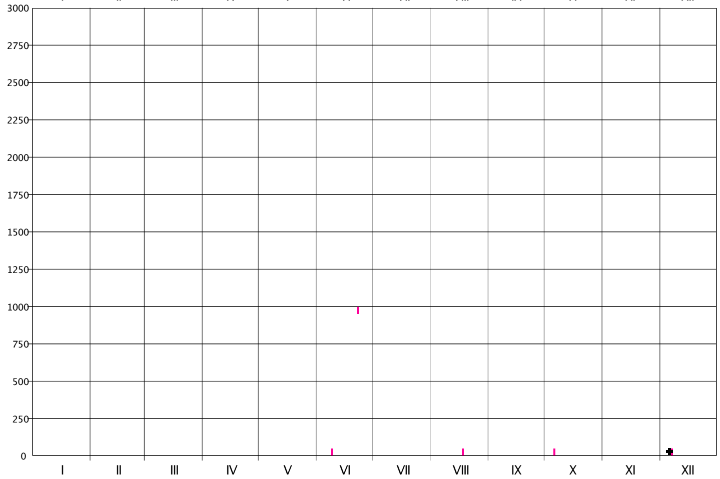
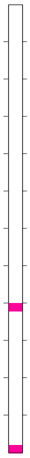
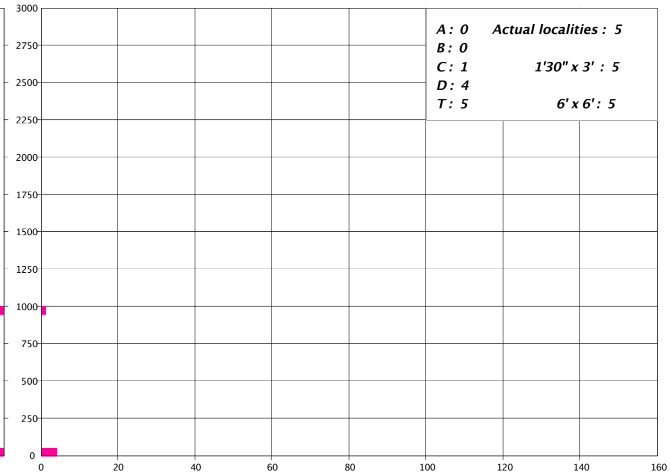


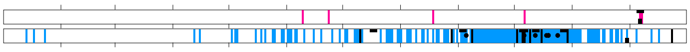




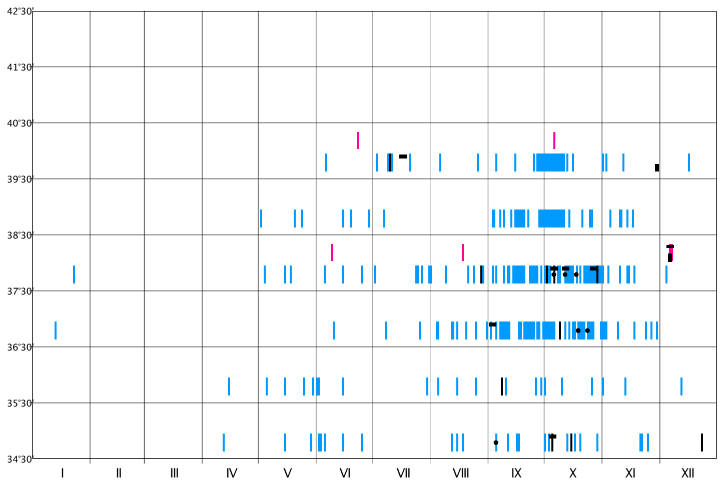


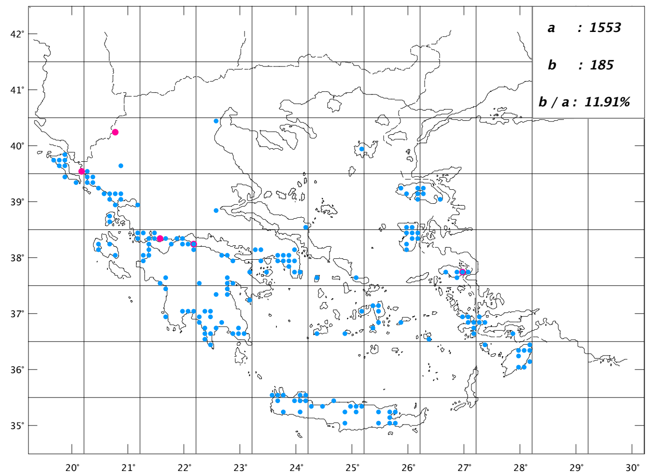


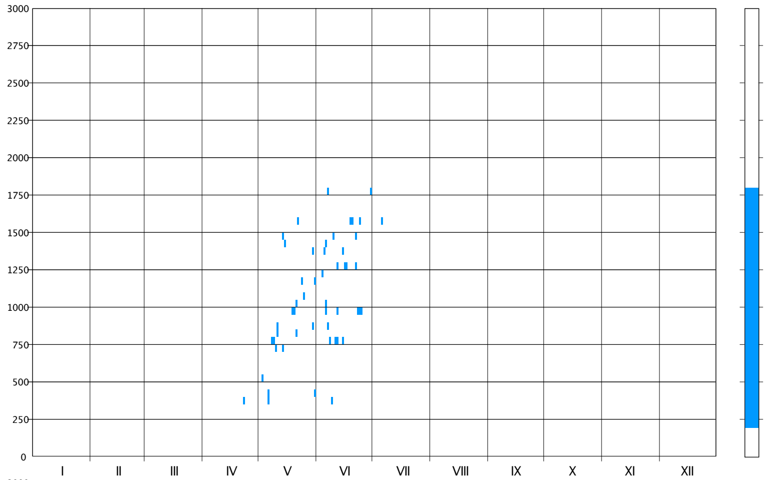


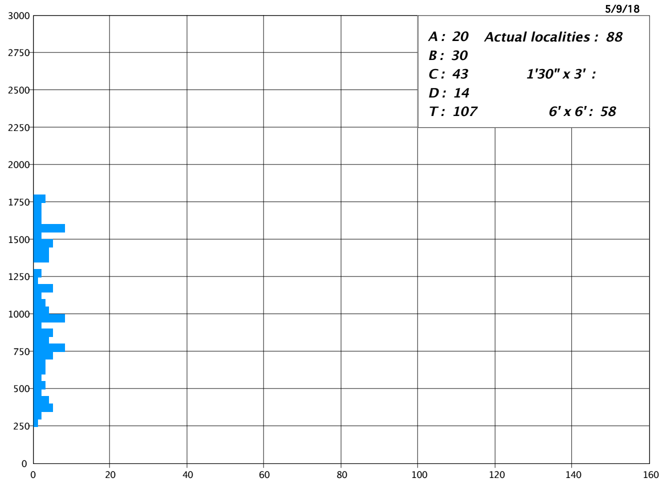


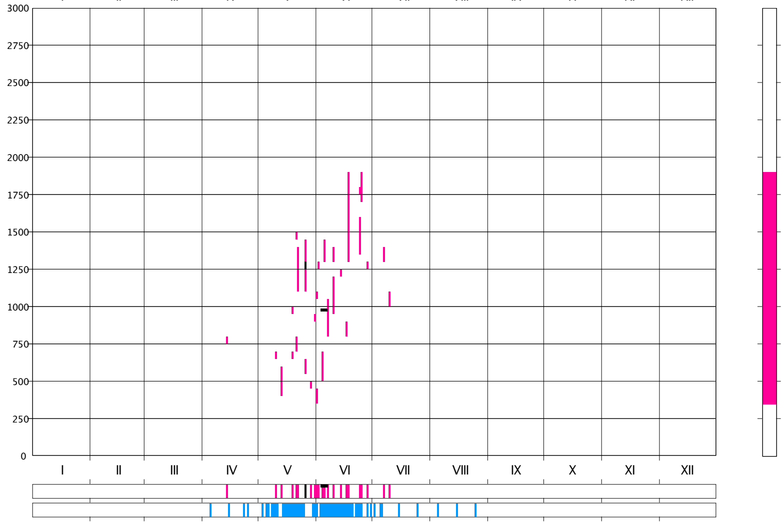
DANAIDAE *Danaus chrysippus*

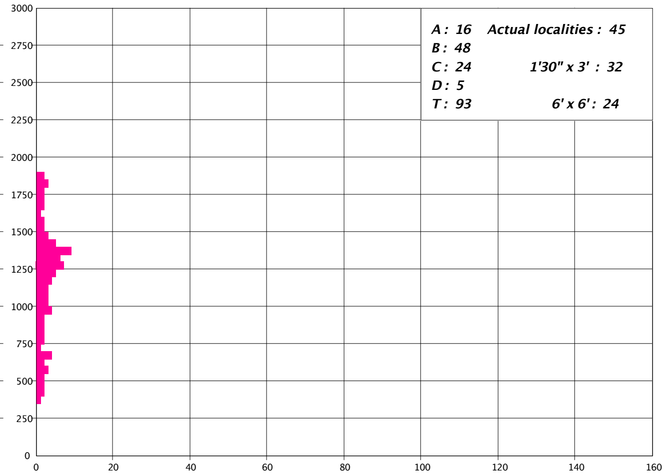


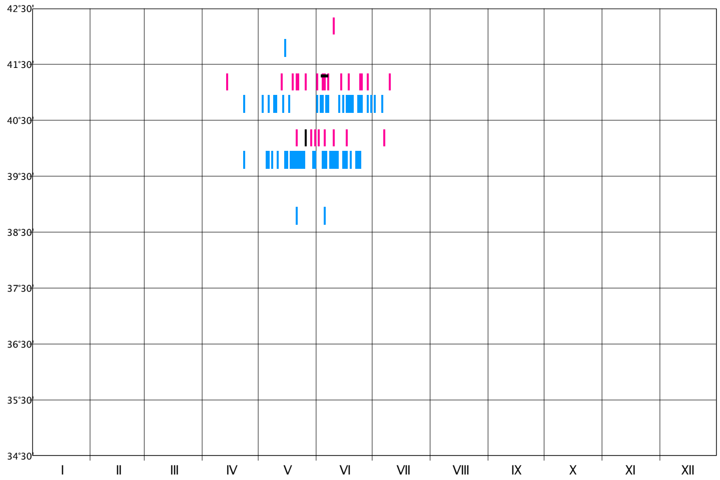




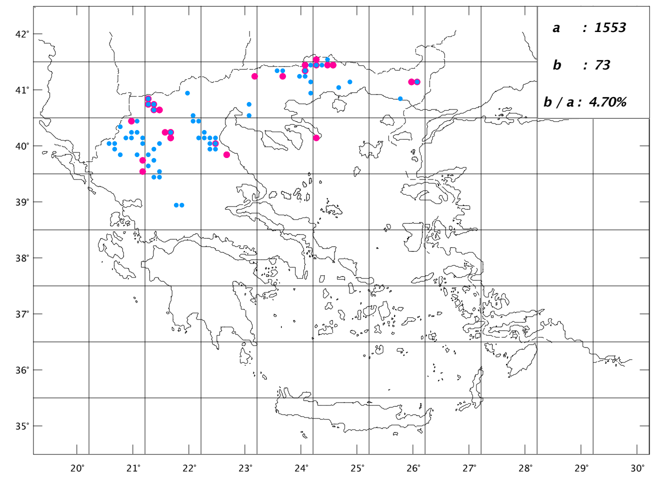








RIODINIDAE *Hamearis lucina*



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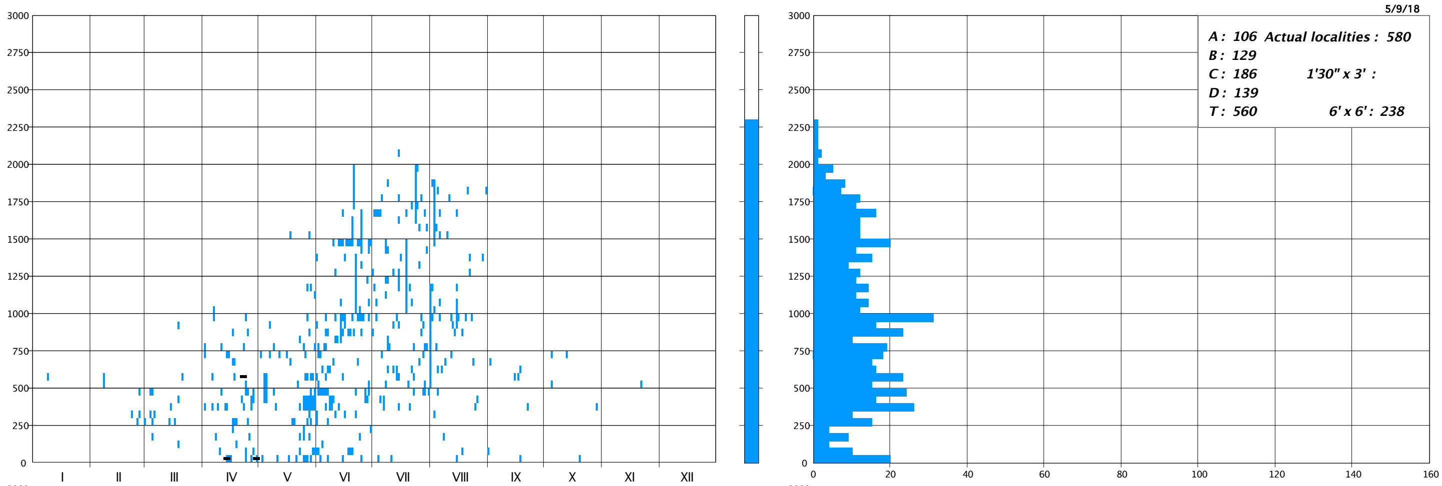
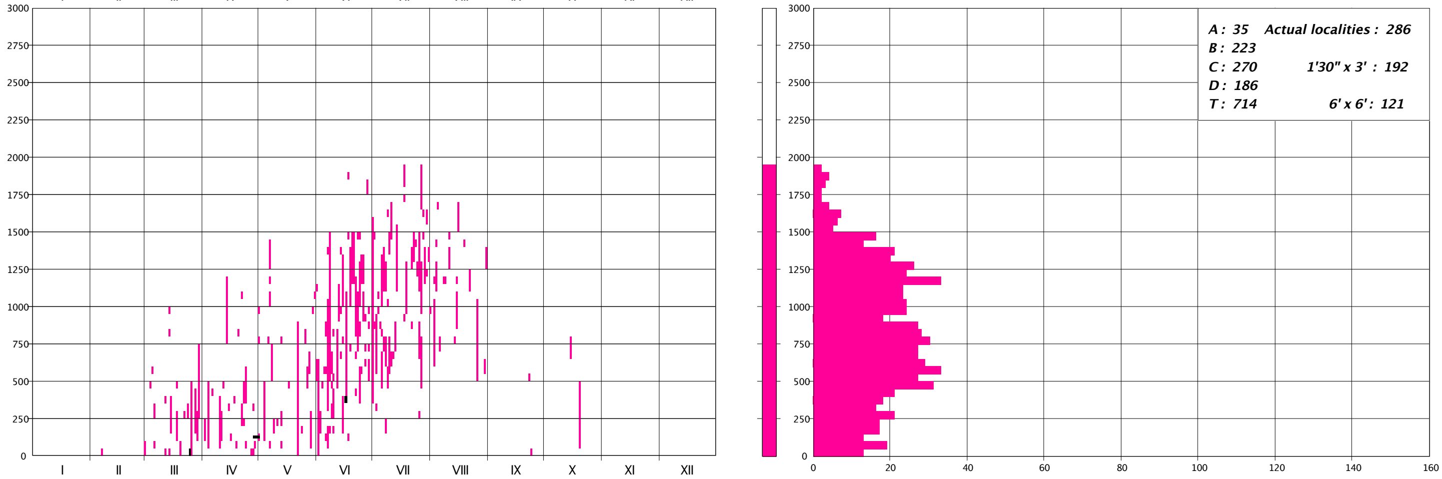
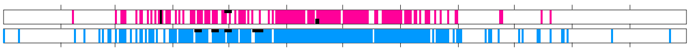
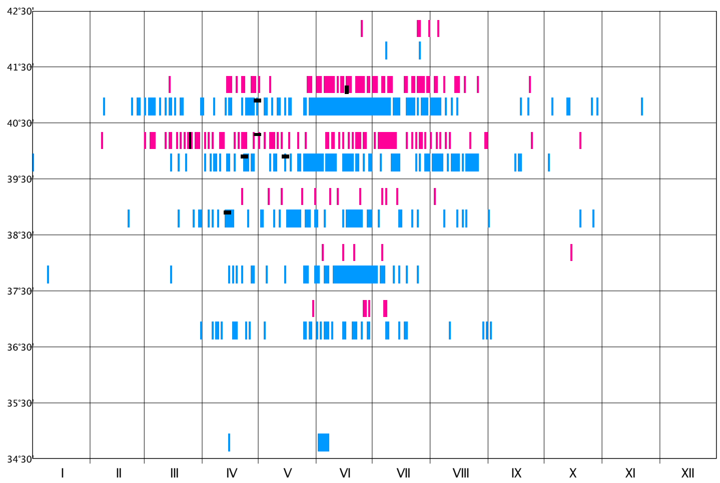
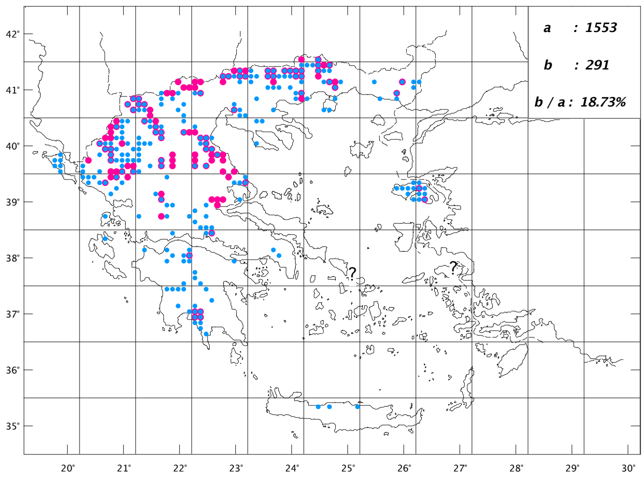


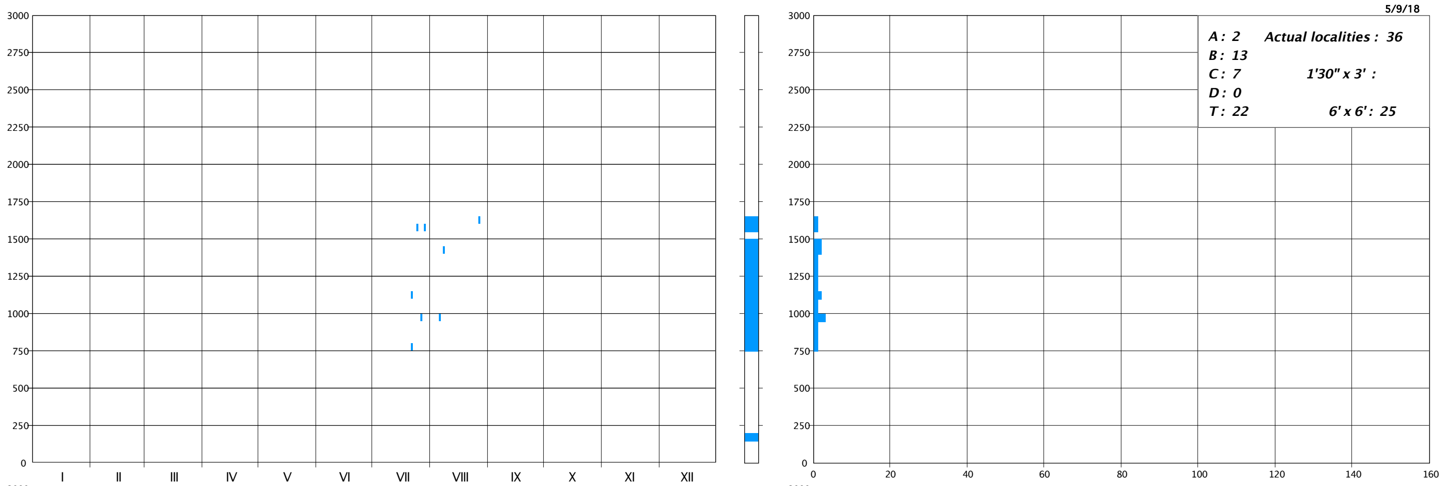


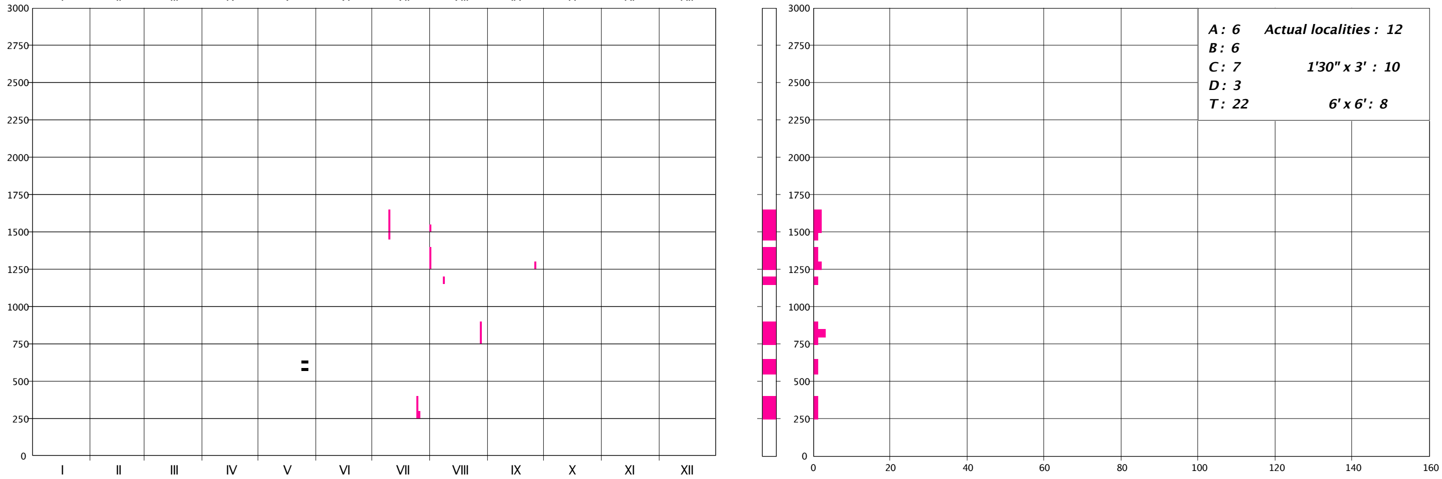


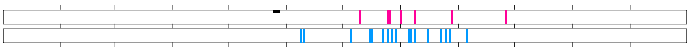
LIBYTHEIDAE *Libythea celtis*



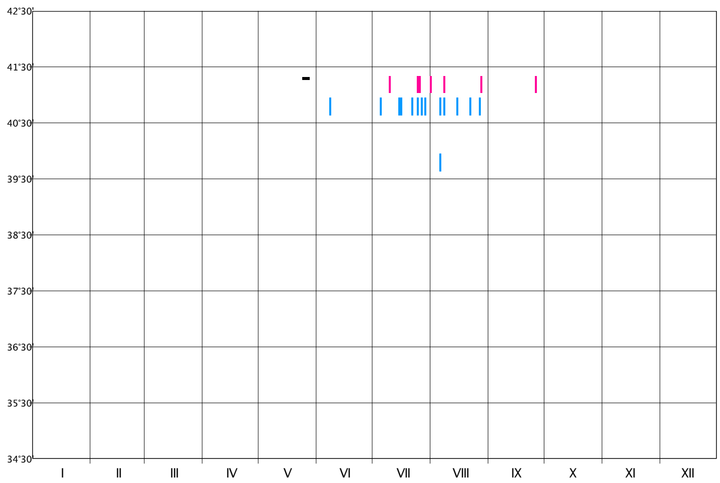


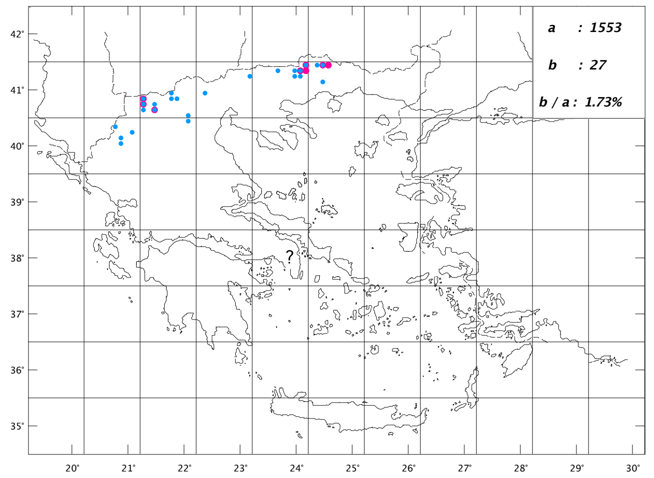


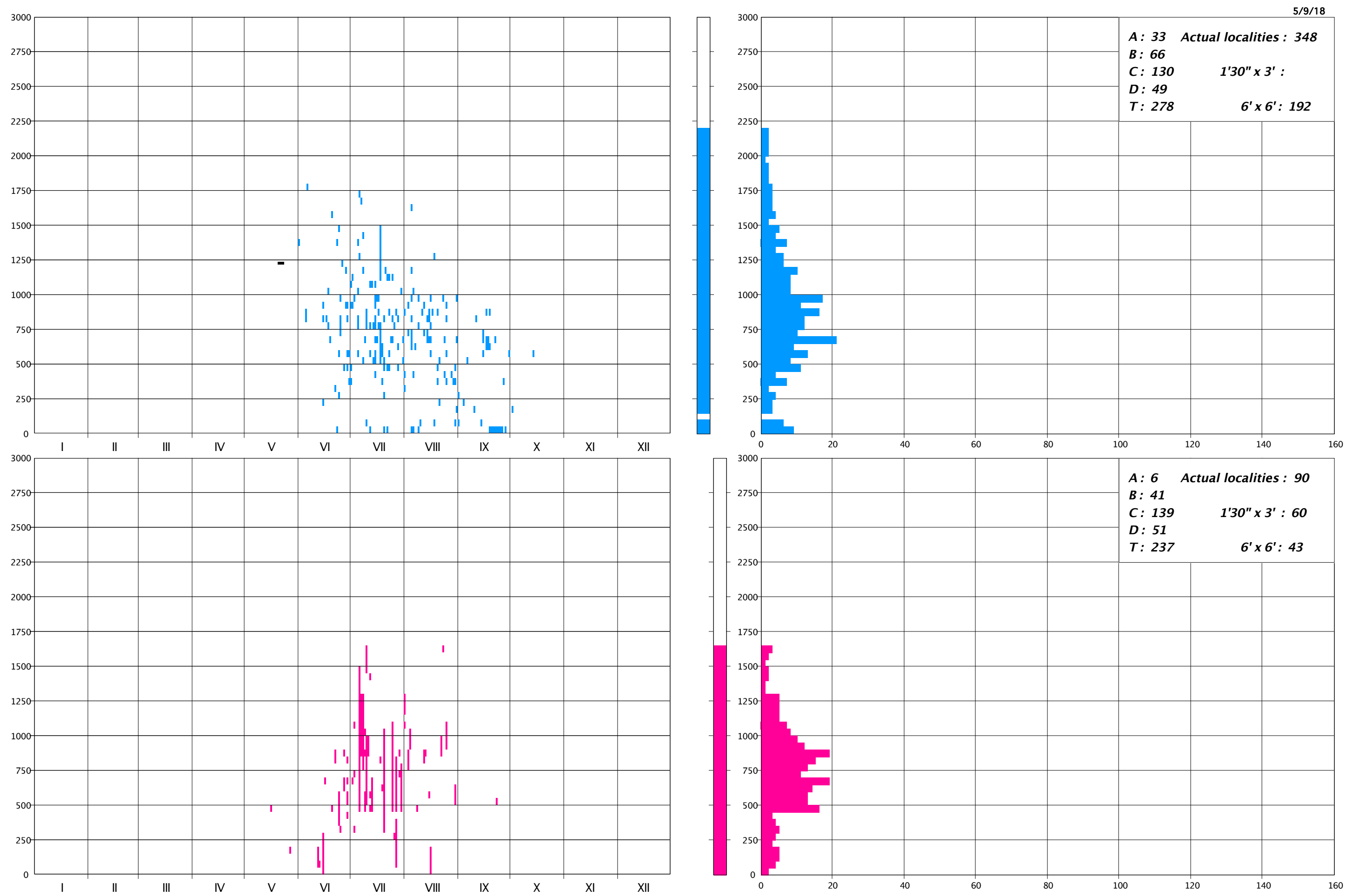




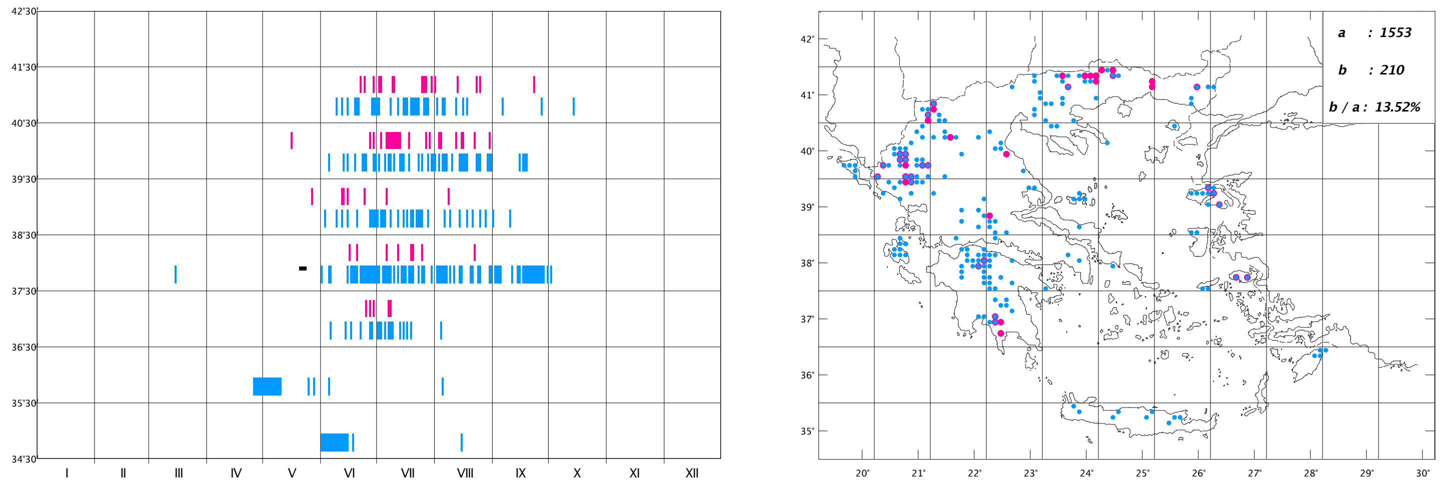
LYCAENIDAE *Thecla betulae*

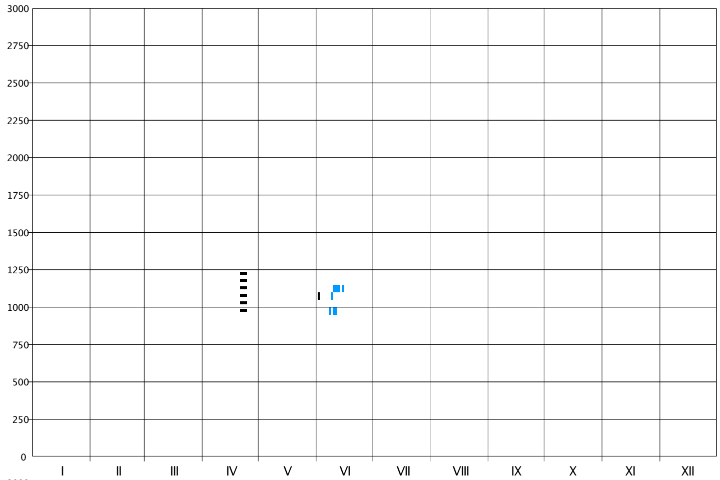


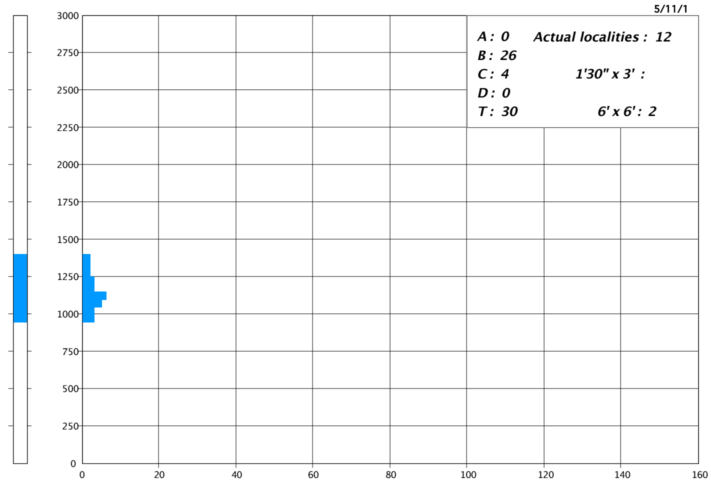


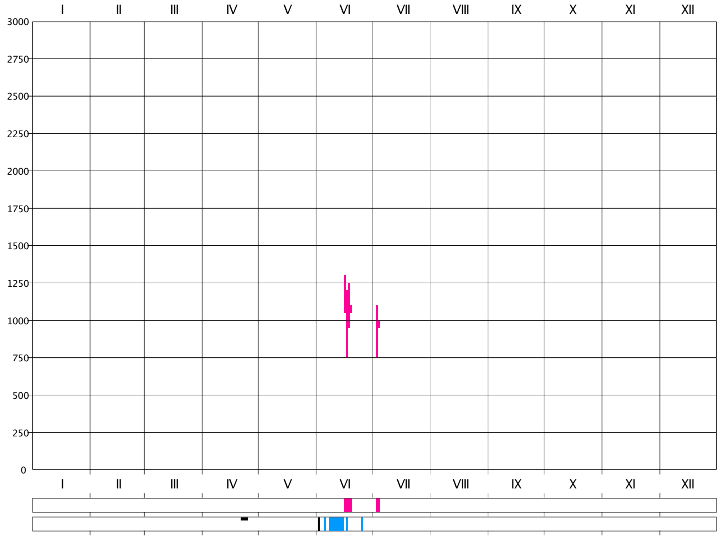


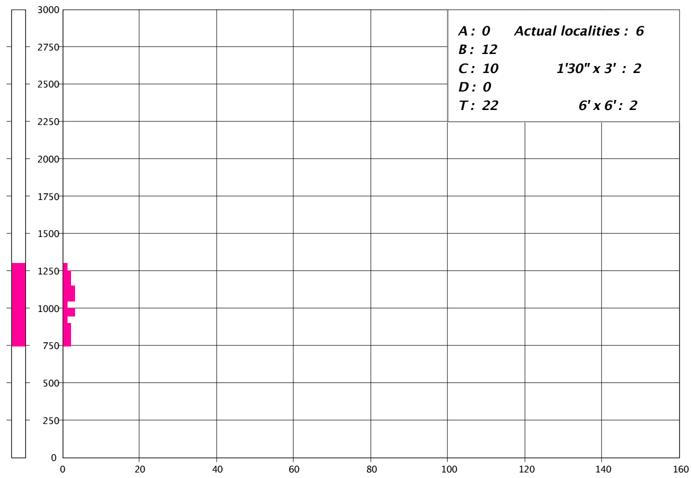
LYCAENIDAE *Neozephyrus quercus*



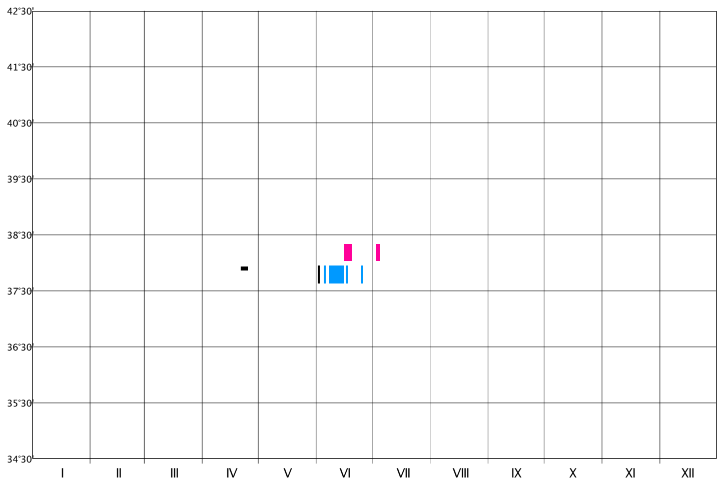


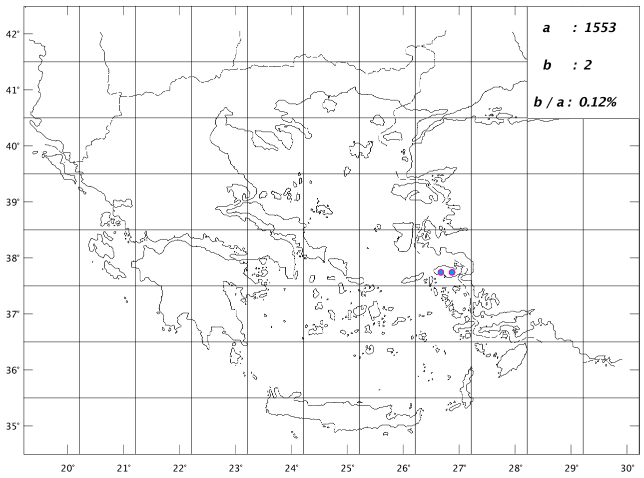


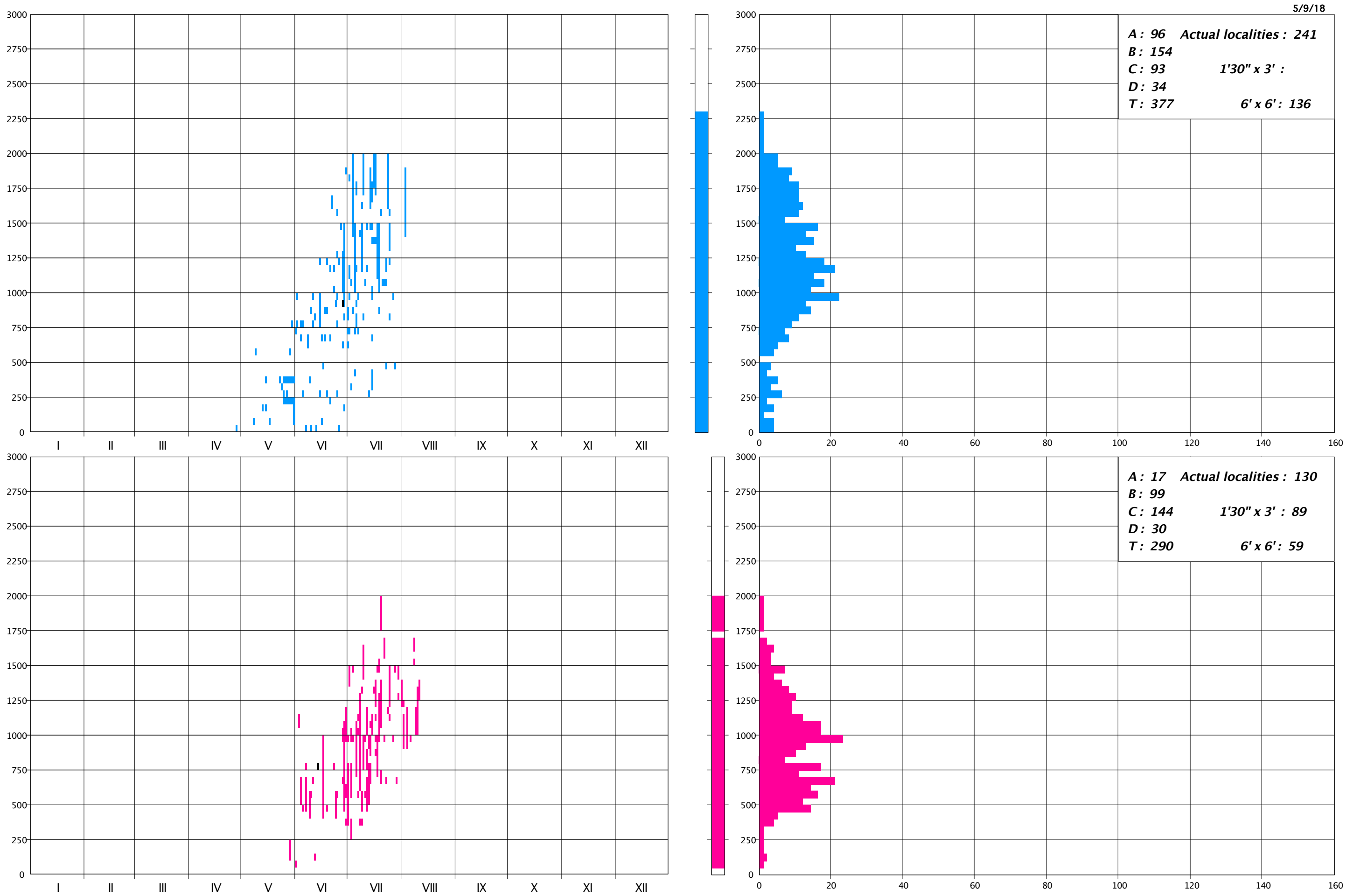




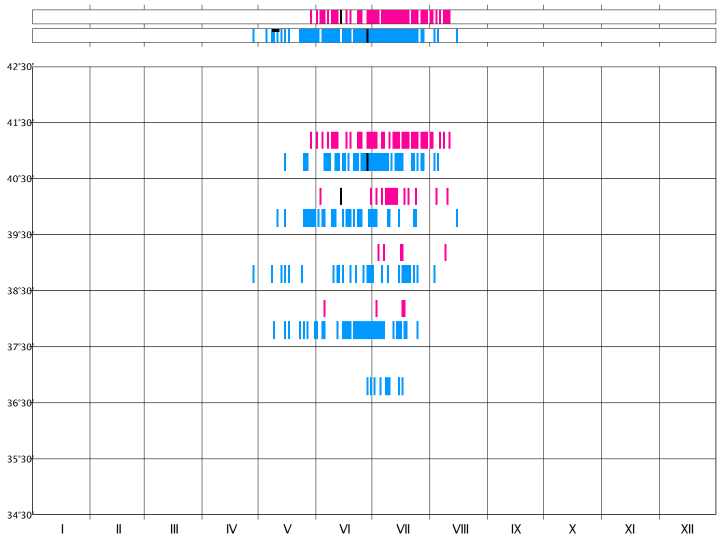
LYCAENIDAE *Satyrium ledereri*

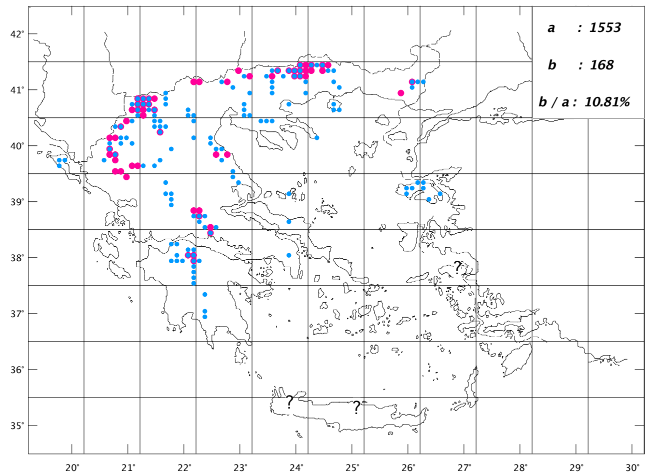






LYCAENIDAE *Satyrium acaciae*





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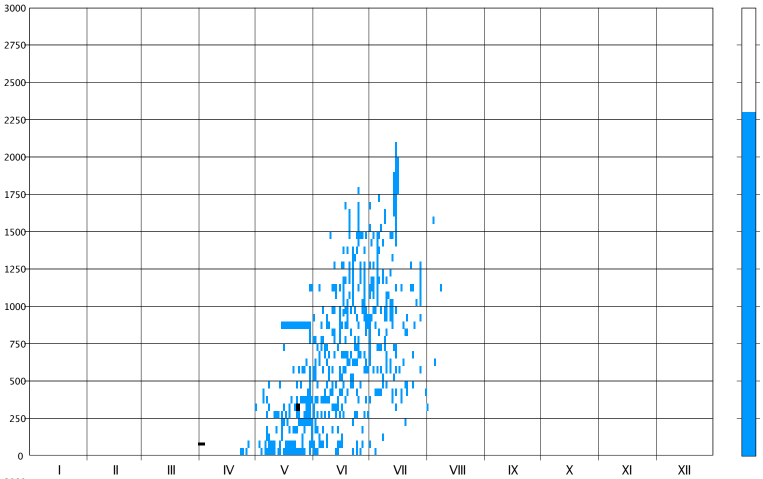

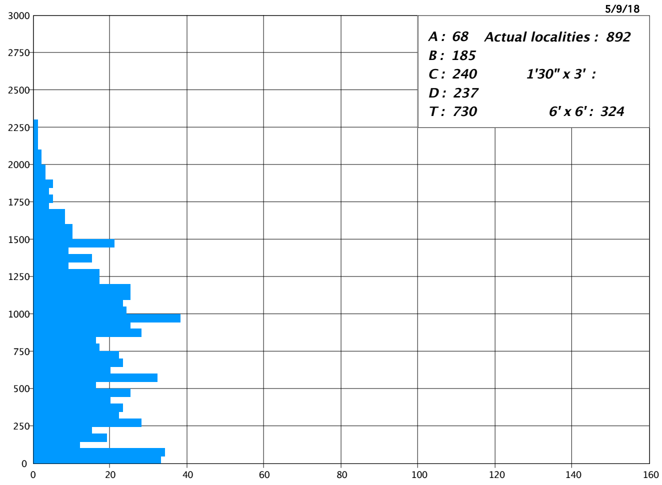

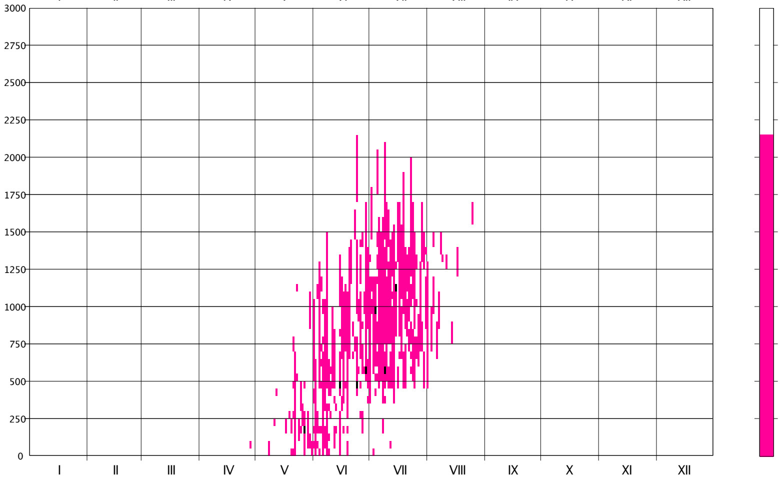

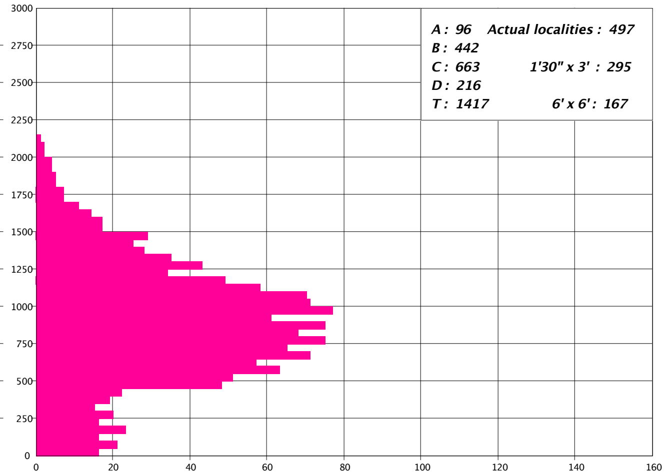

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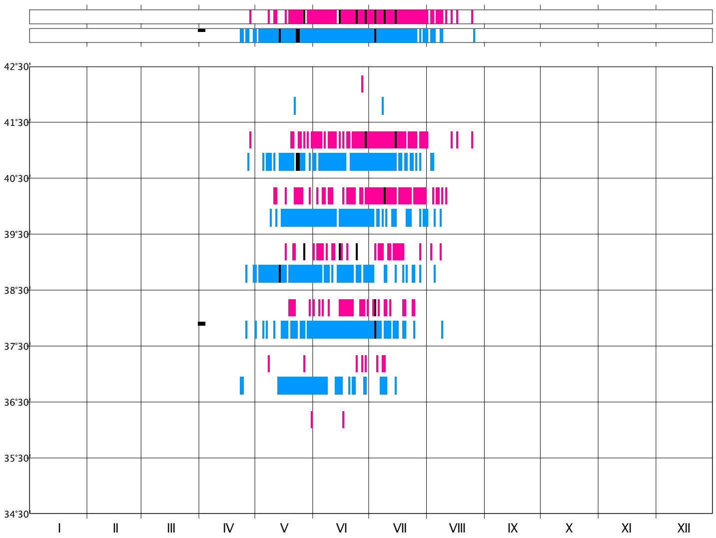

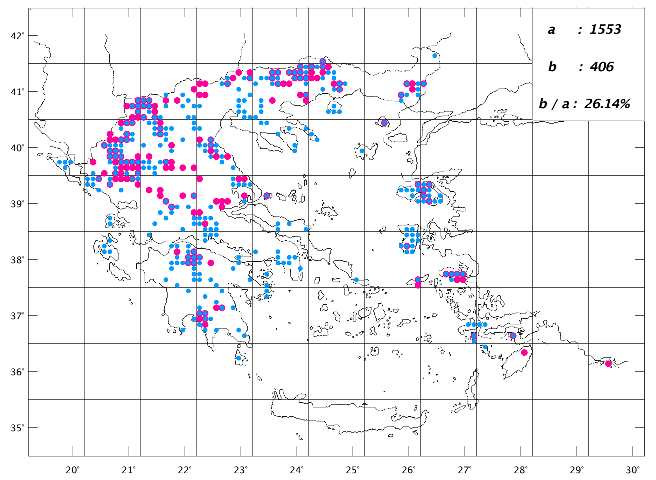

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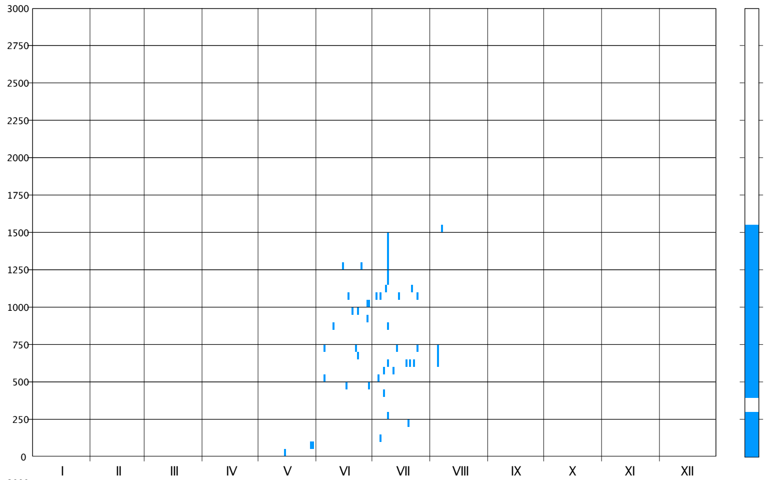
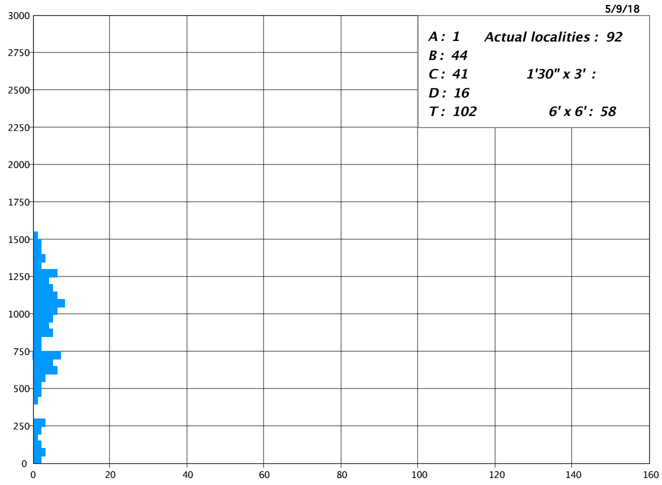
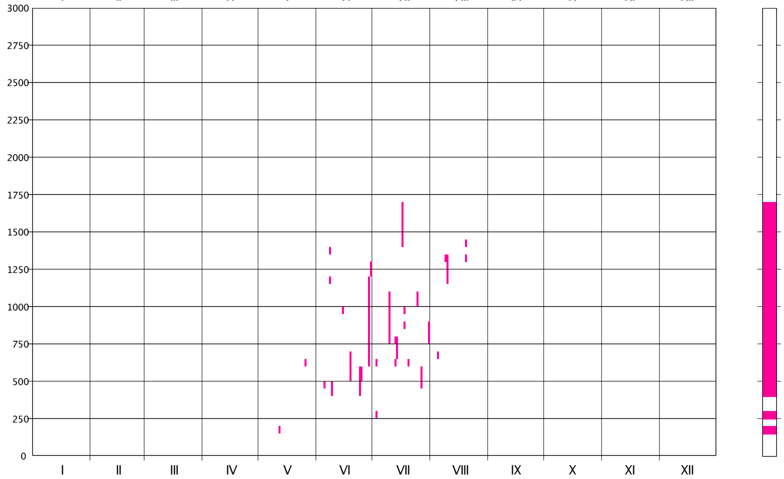
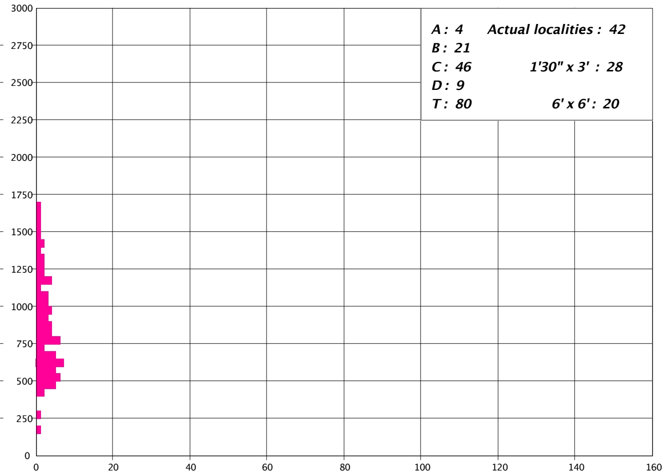
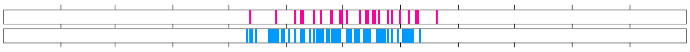


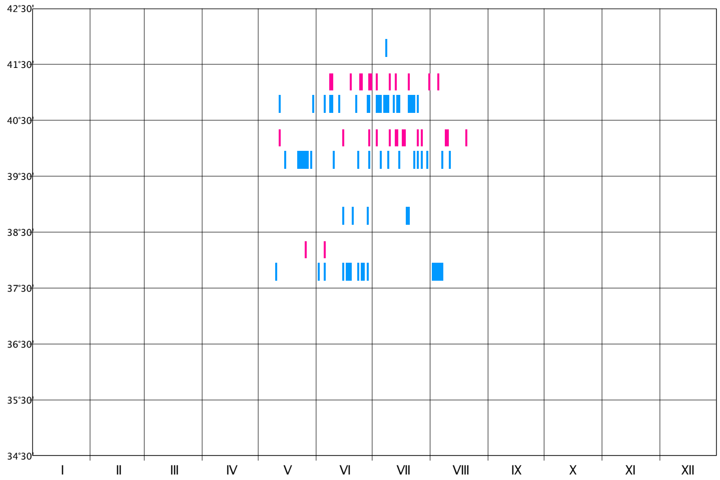


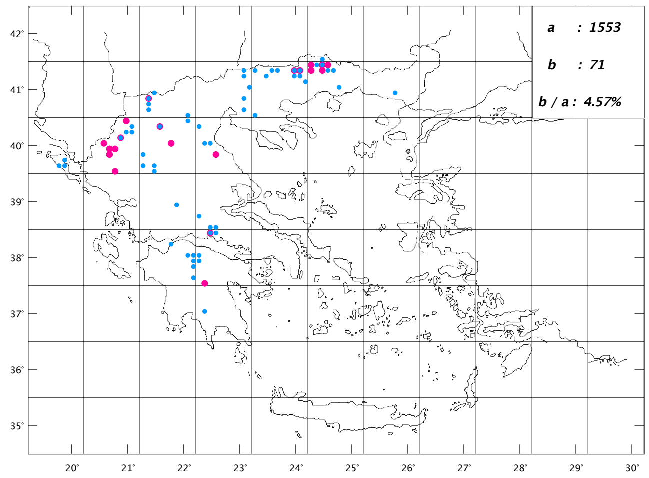


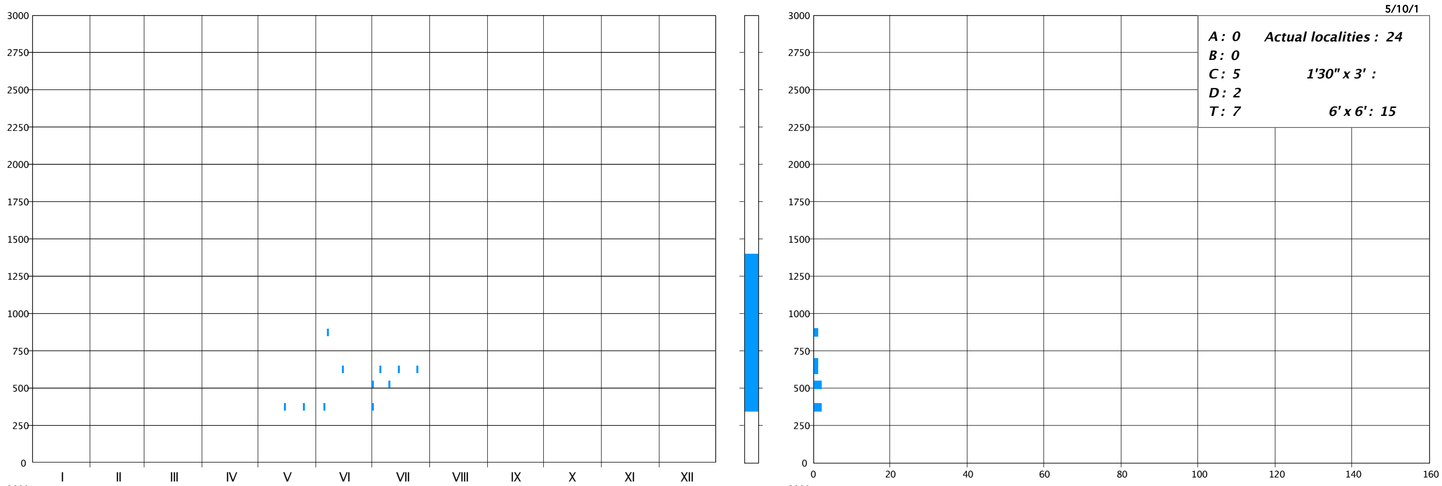


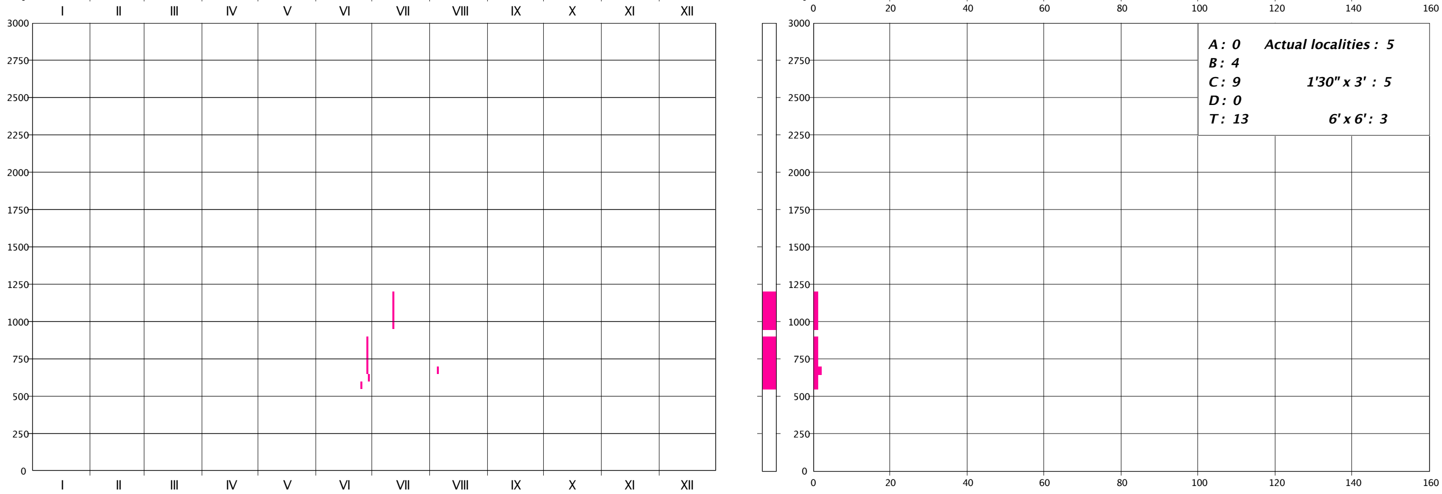


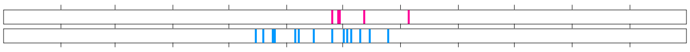
LYCAENIDAE *Satyrium w-album*



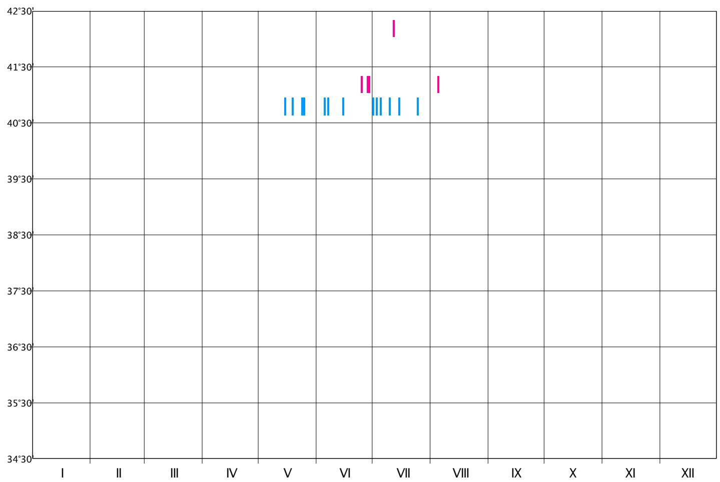


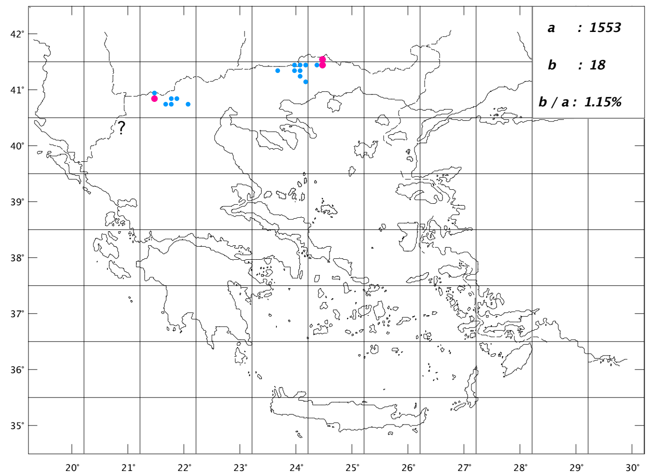


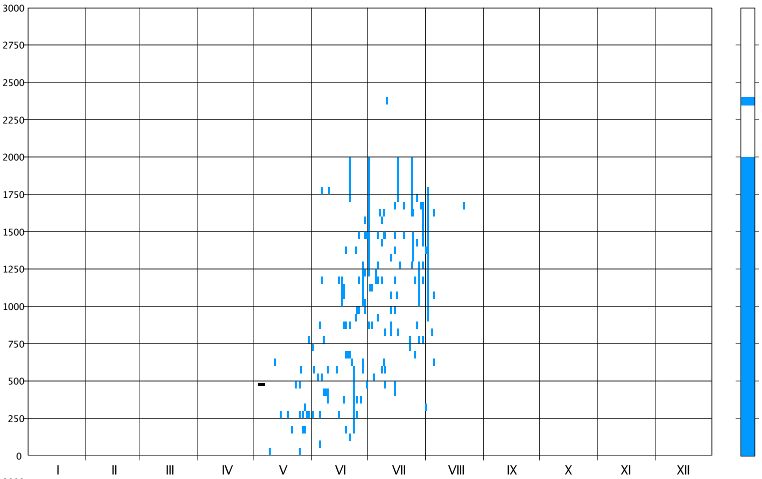


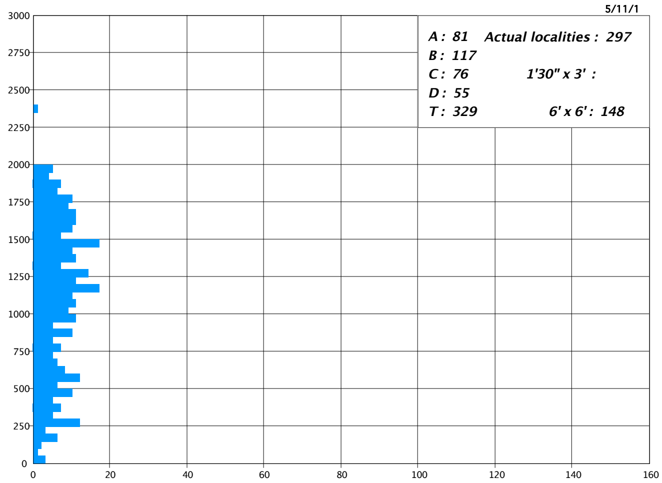


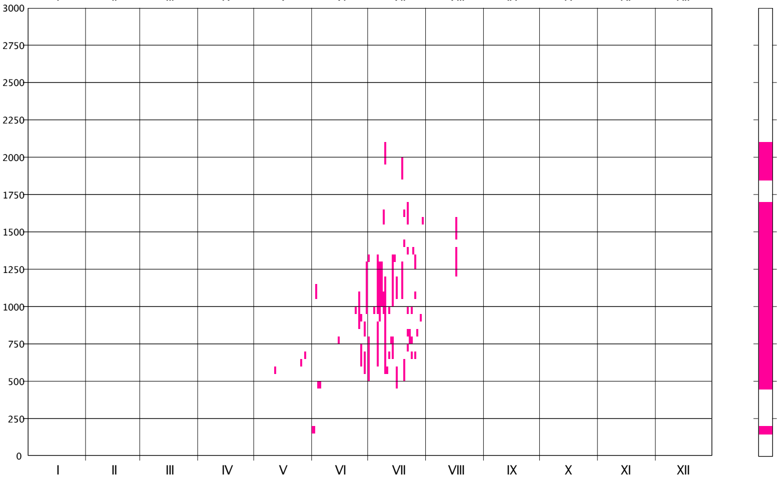
LYCAENIDAE *Satyrium pruni*

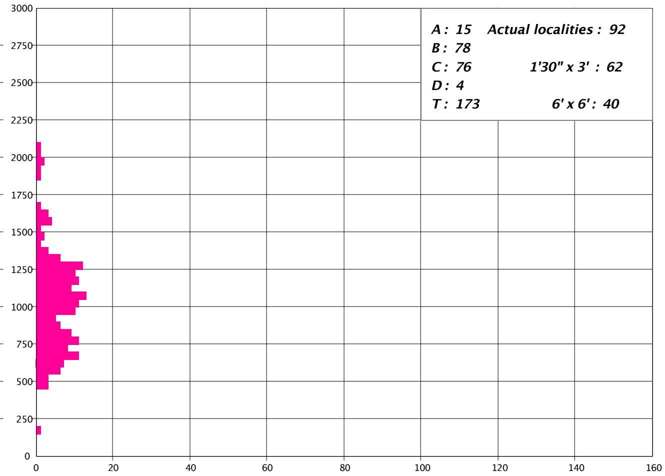


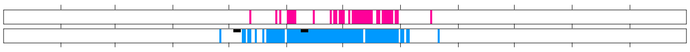




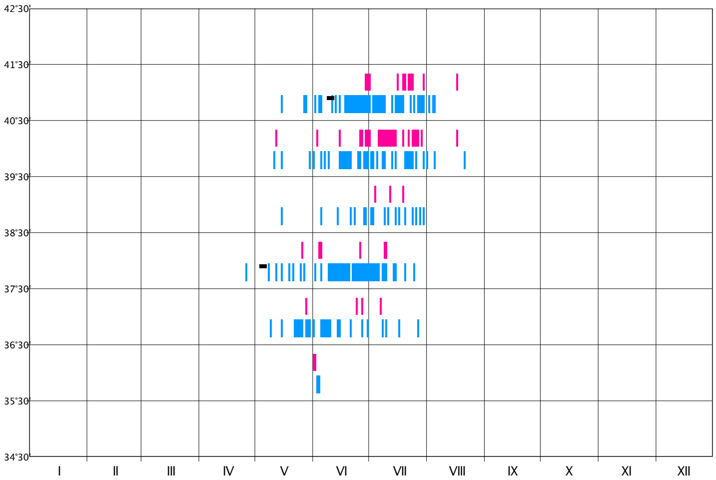


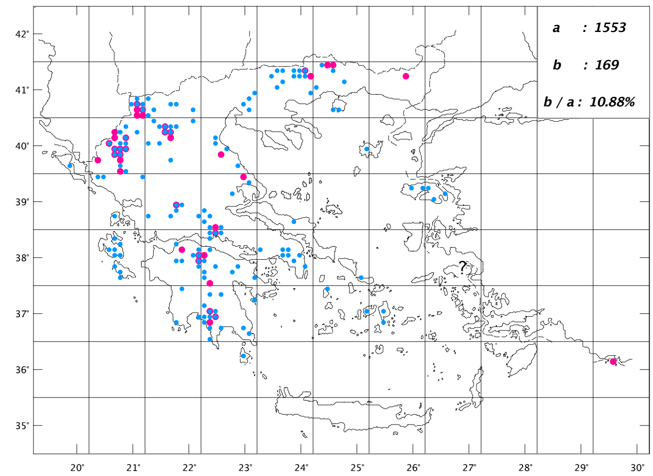


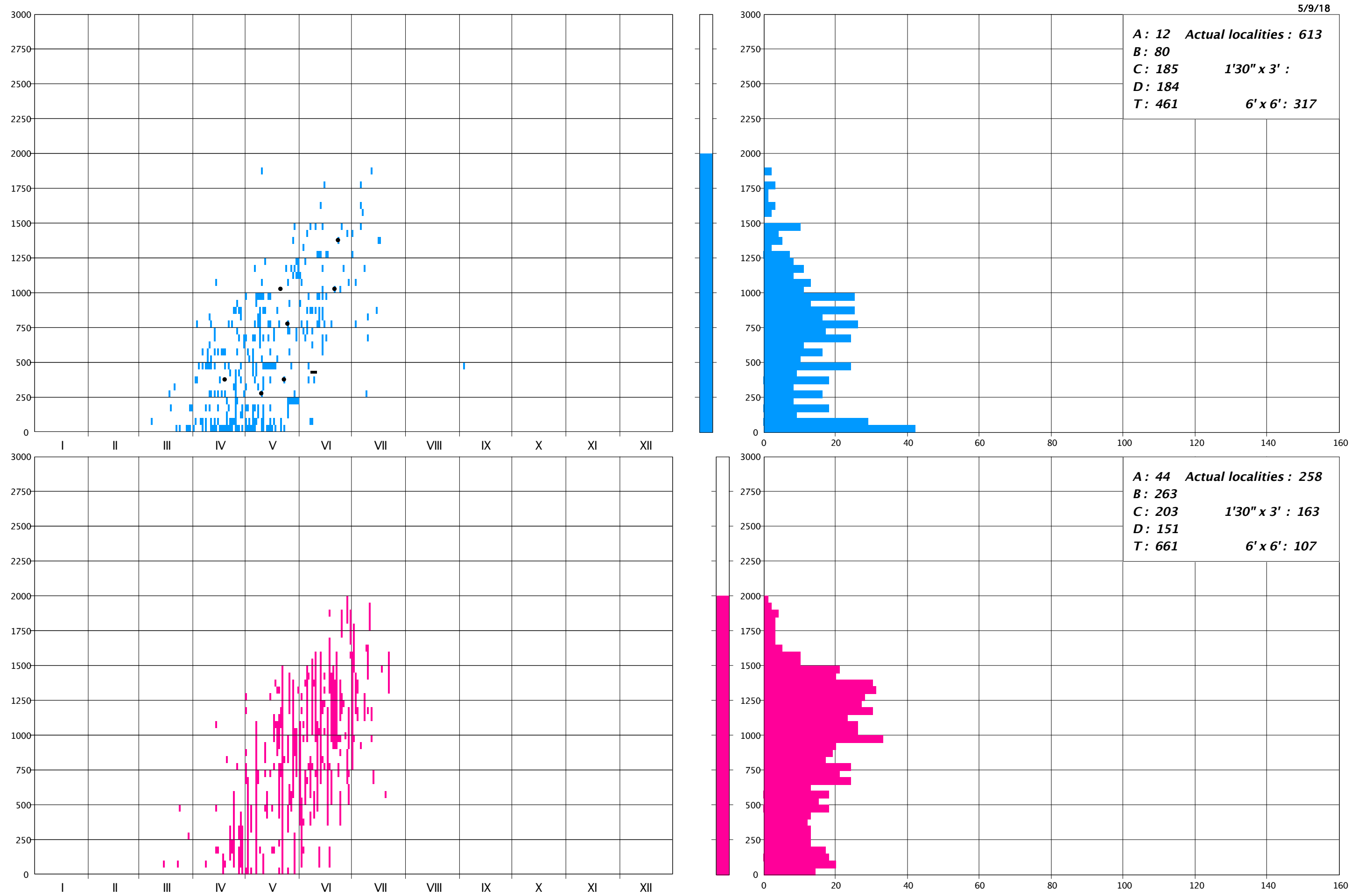




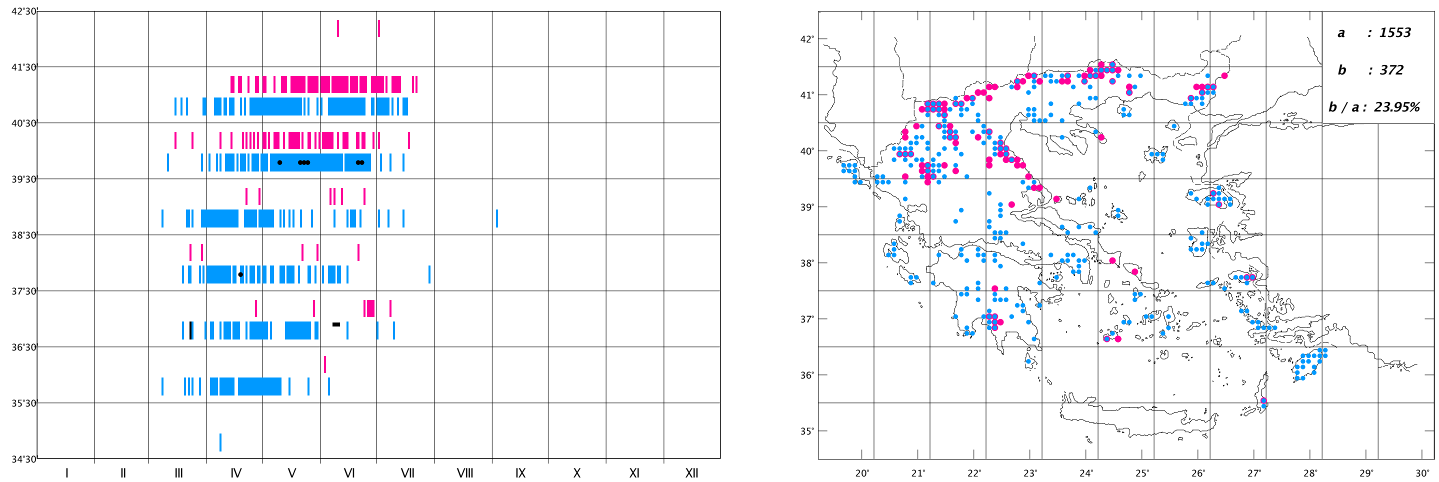
LYCAENIDAE *Satyrium spini*

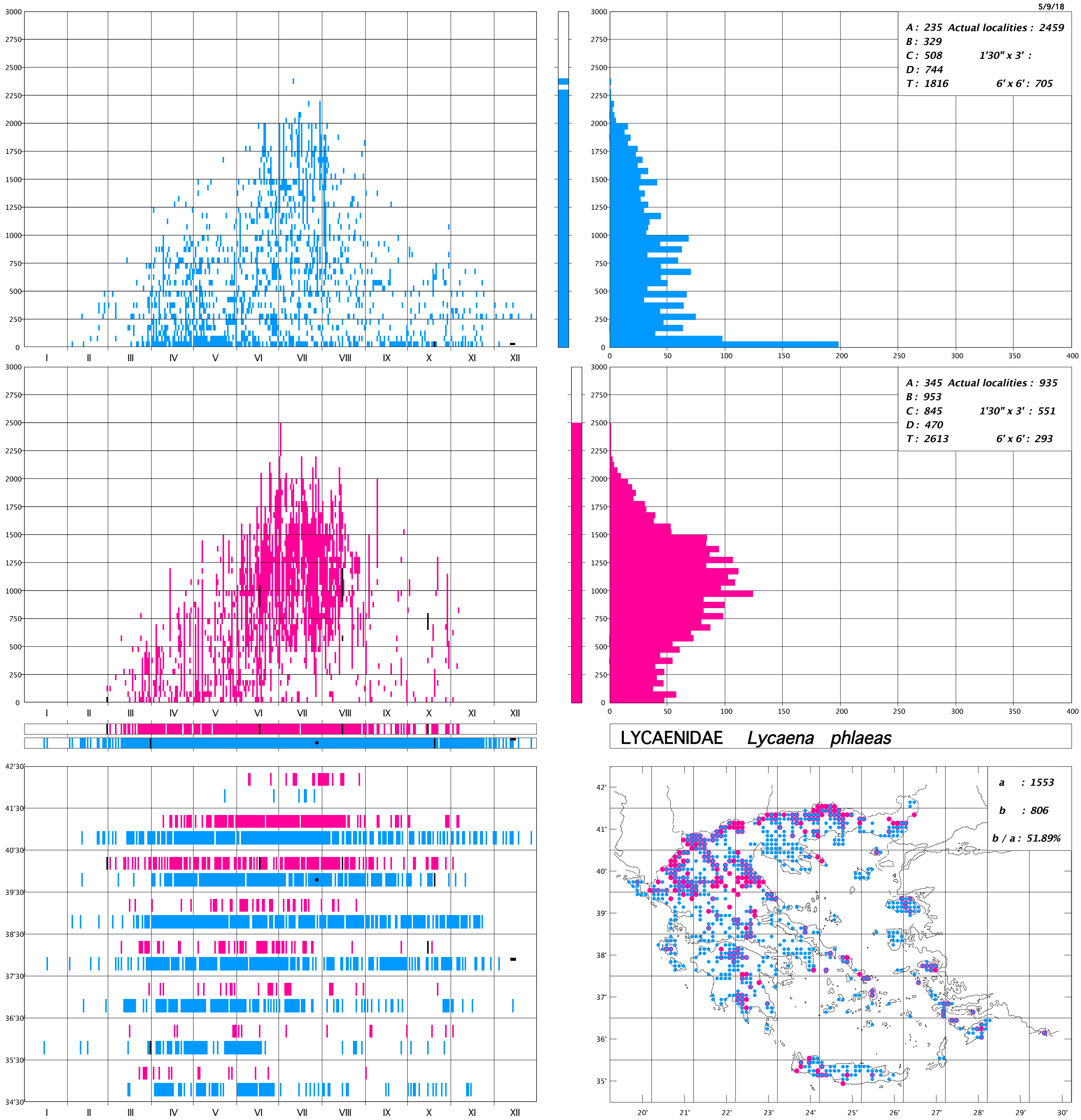




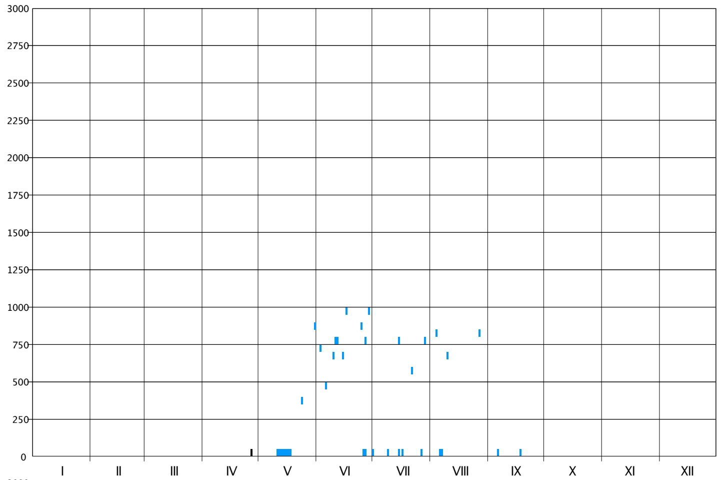


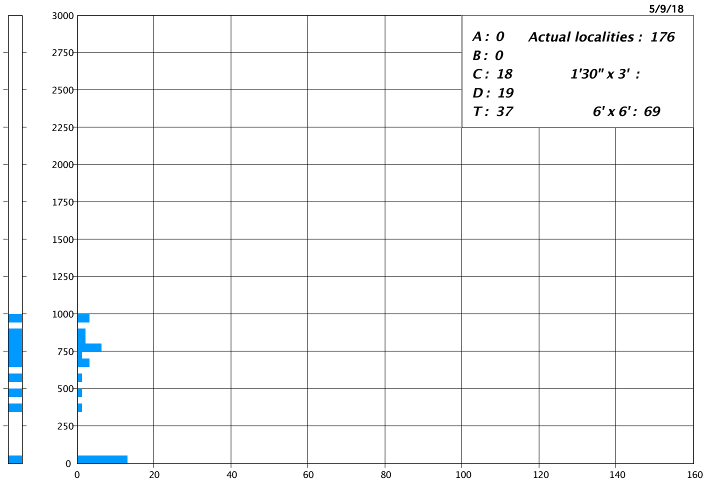
LYCAENIDAE *Callophrys rubi*

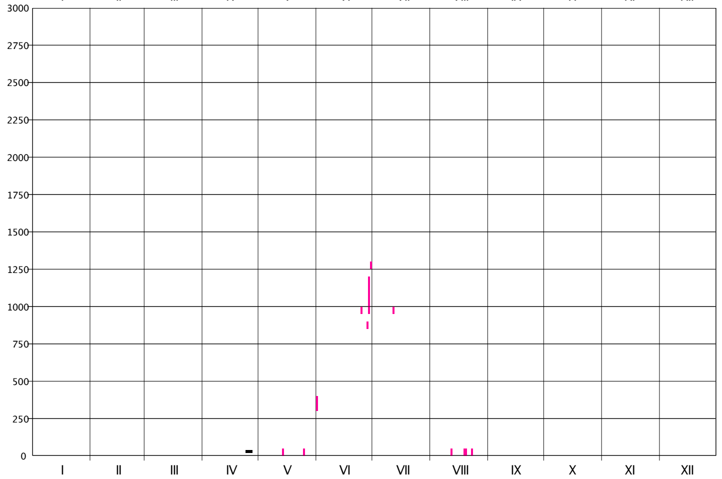


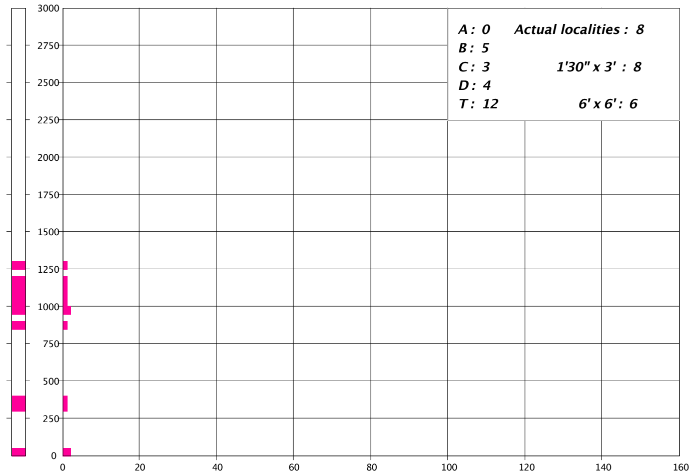


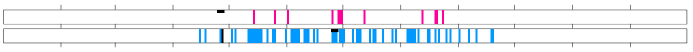
LYCAENIDAE *Lycaena phlaeas*



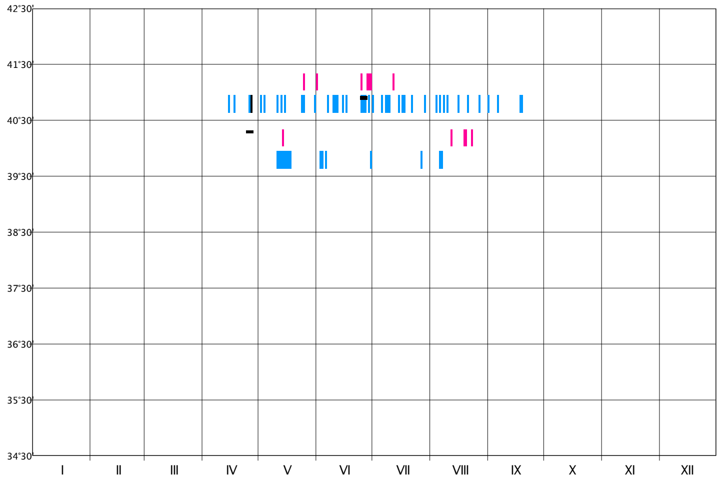


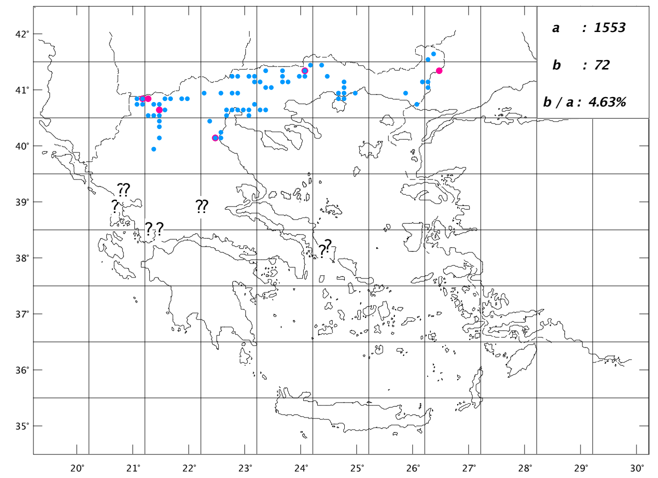


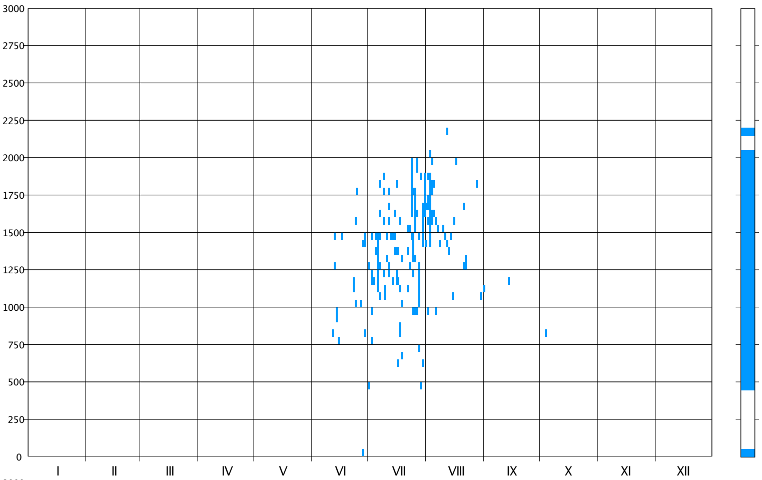


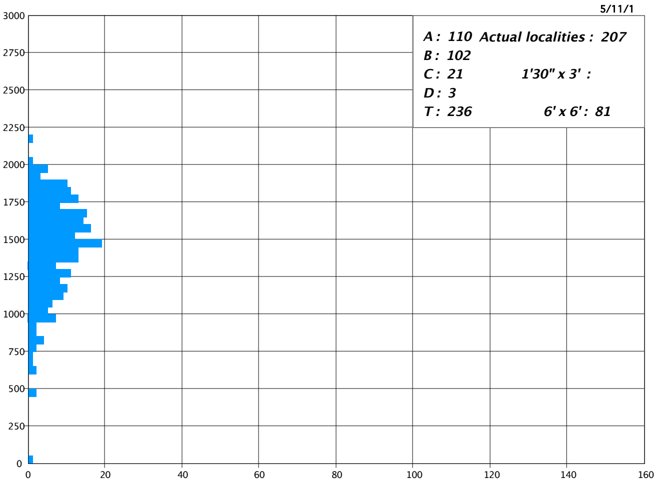


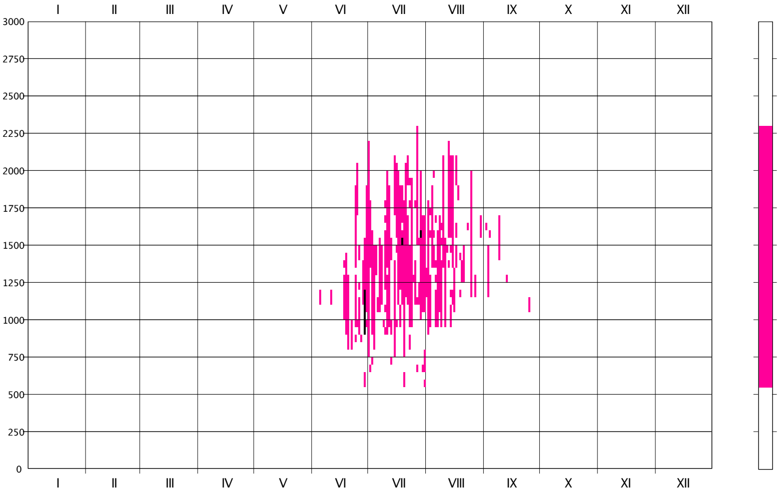
LYCAENIDAE *Lycaena dispar*

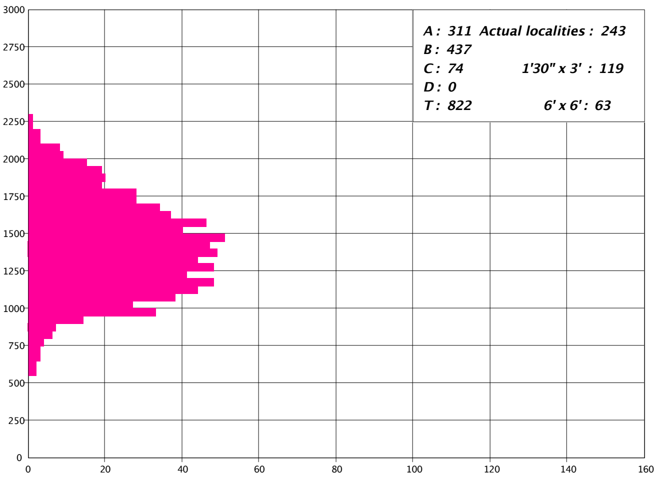


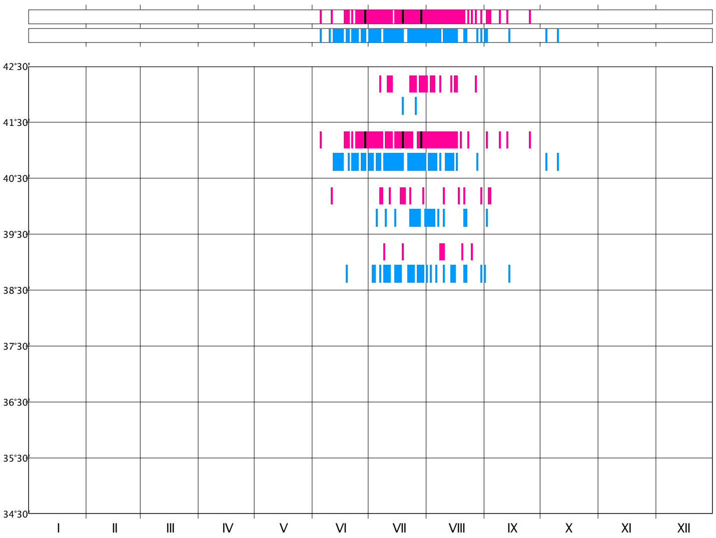




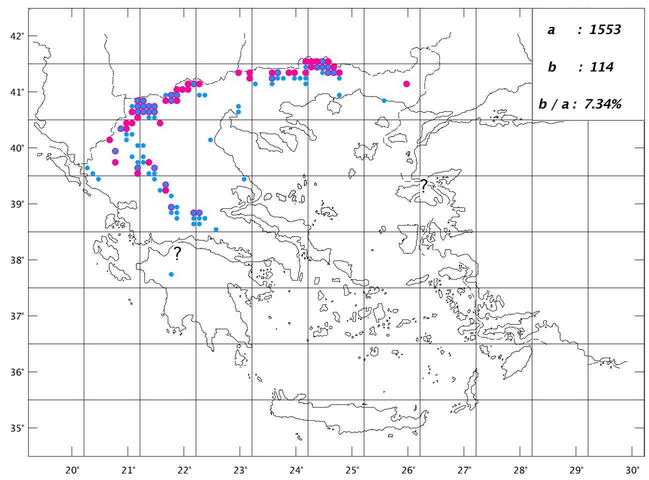


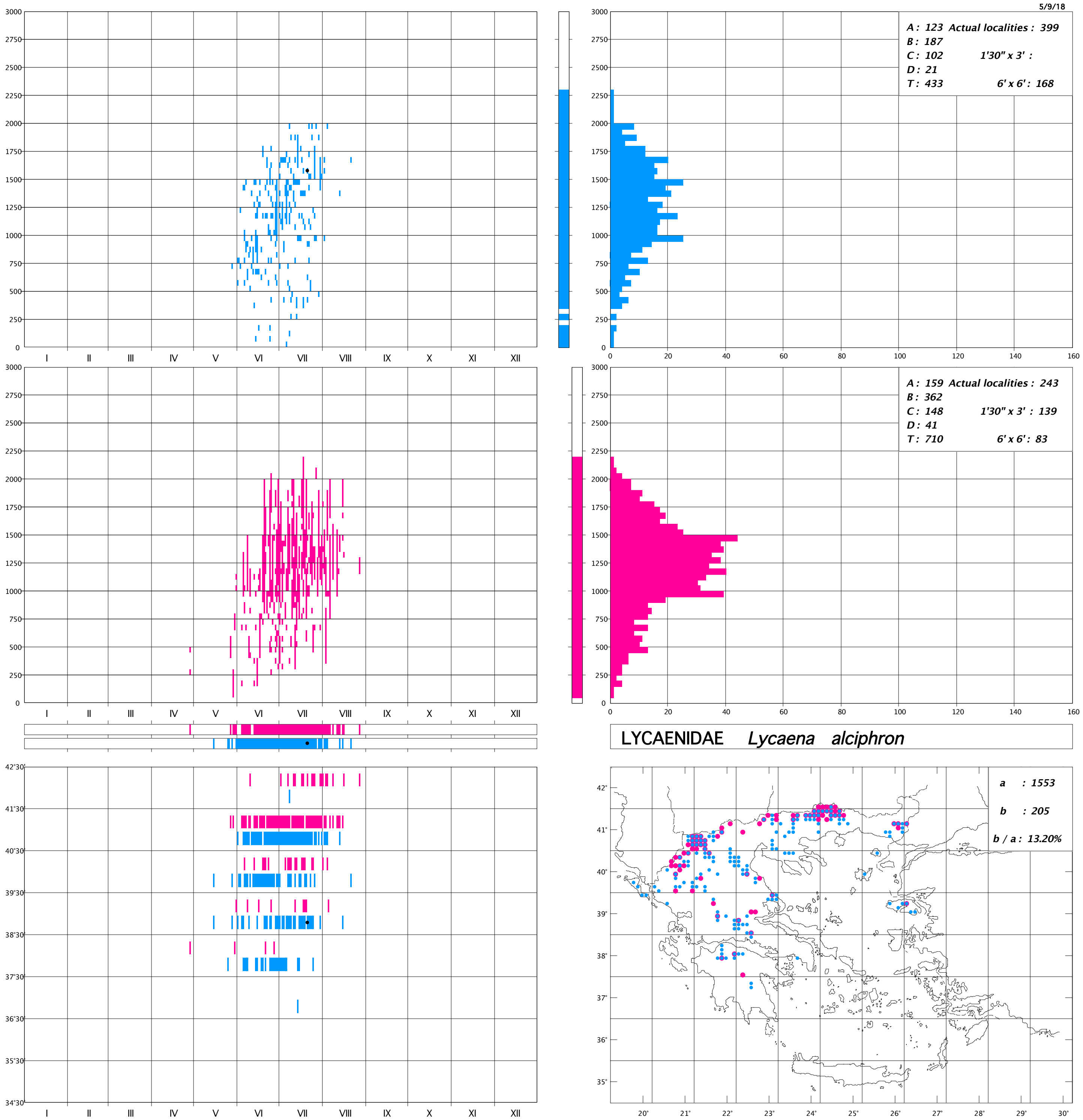




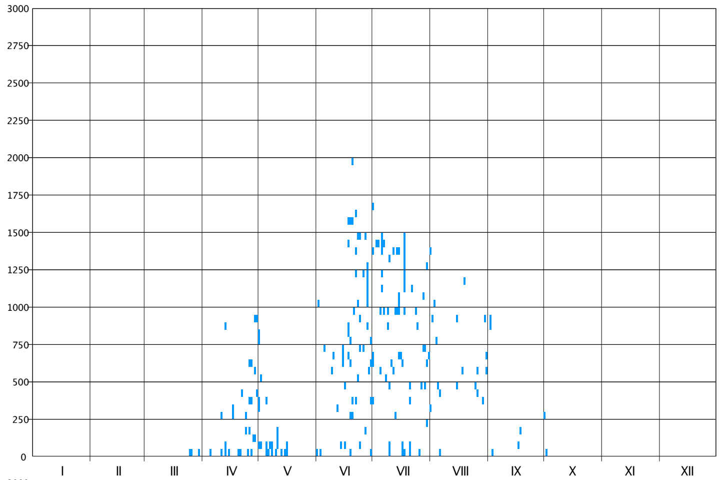


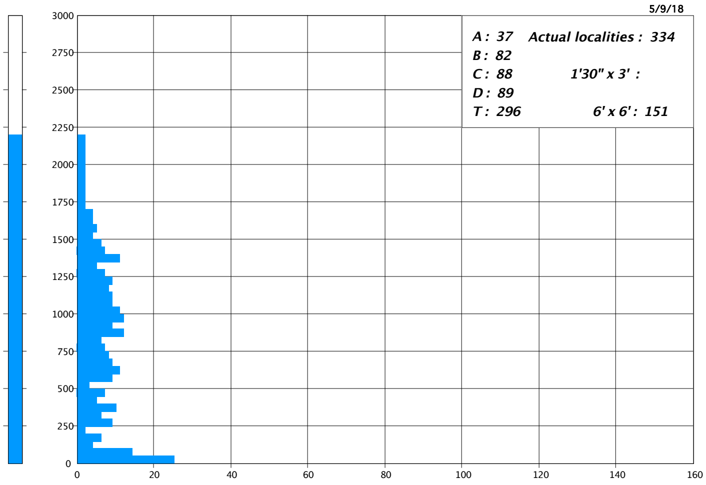
LYCAENIDAE *Lycaena virgaureae*

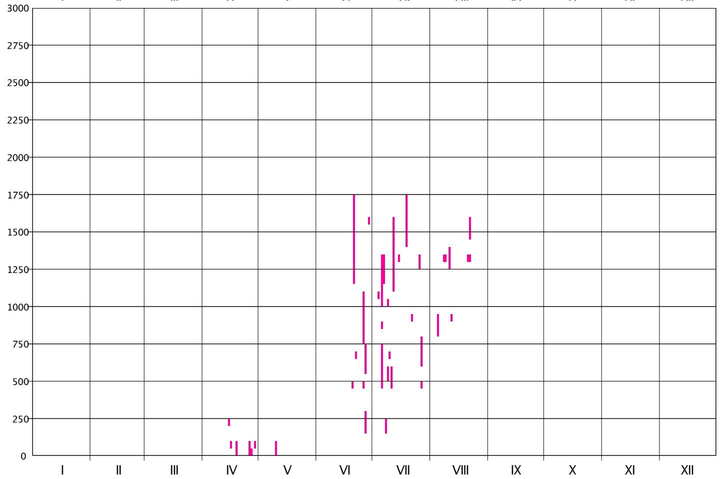


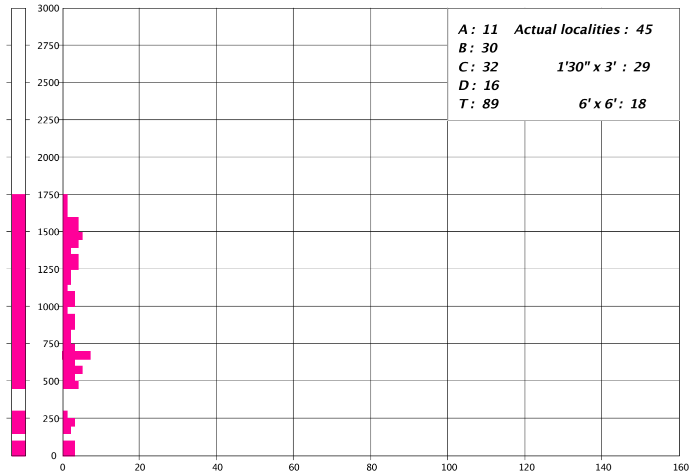


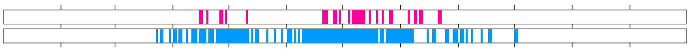
LYCAENIDAE *Lycaena alciphron*



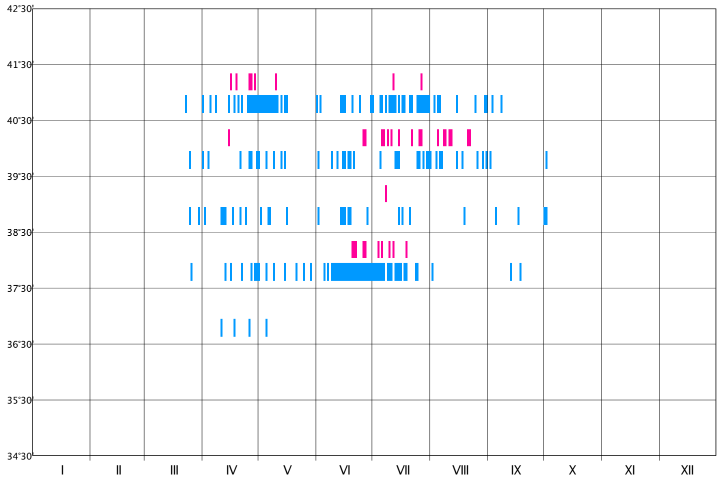


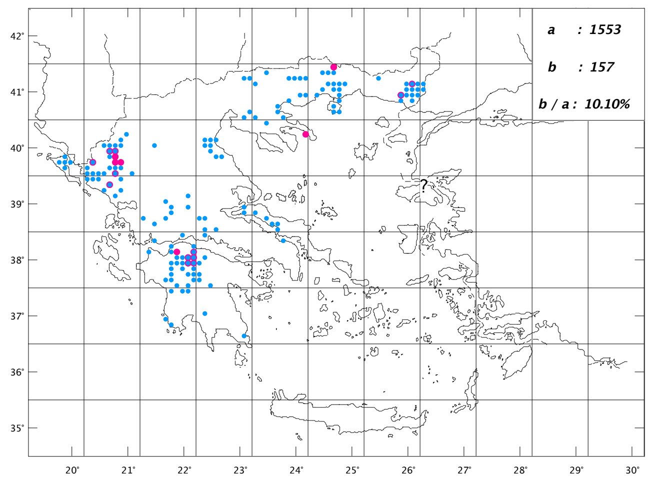


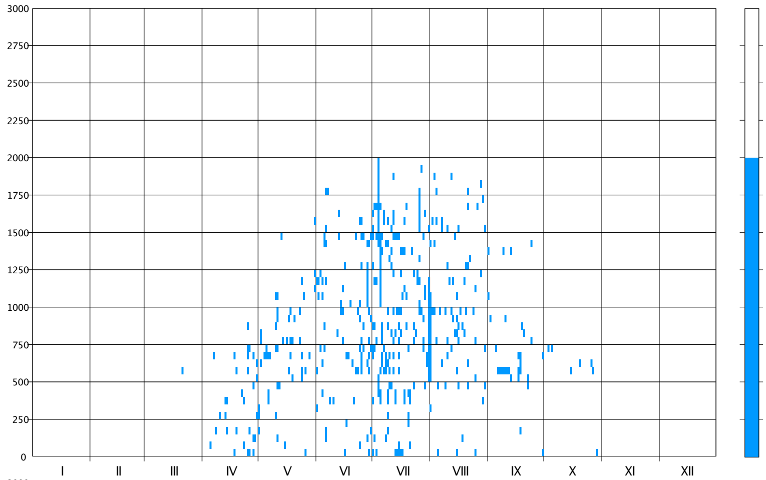


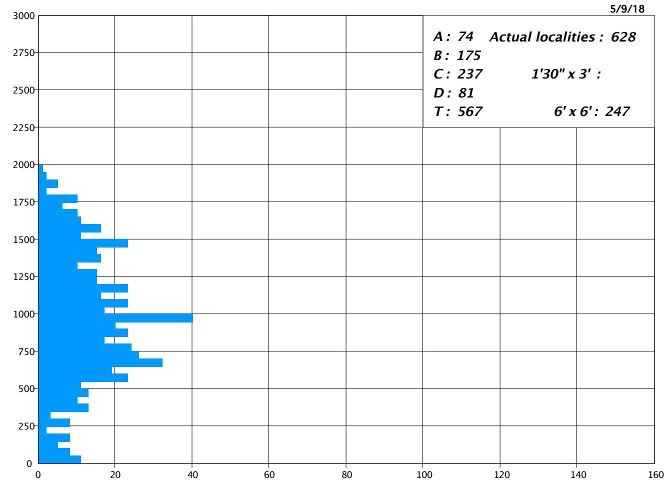


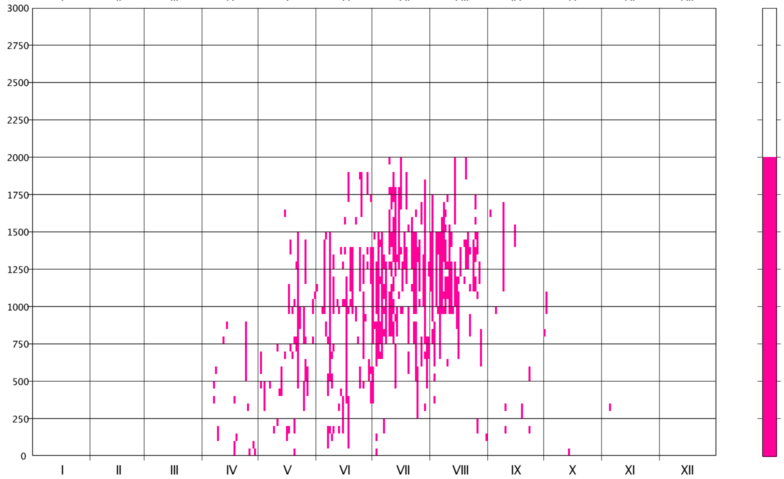
LYCAENIDAE *Lycaena ottomanus*

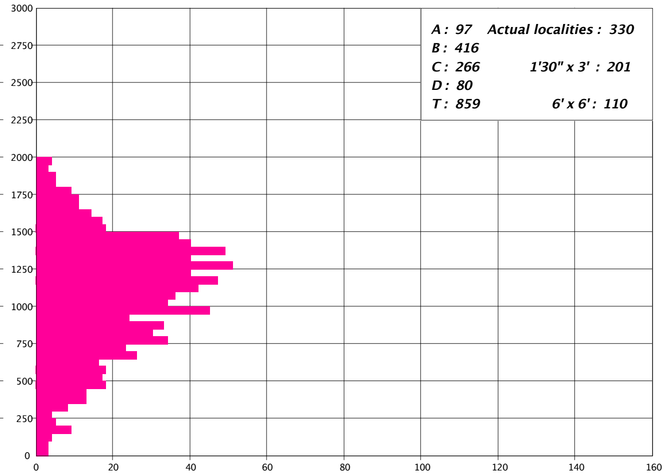


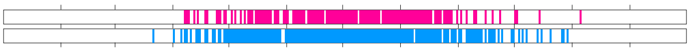




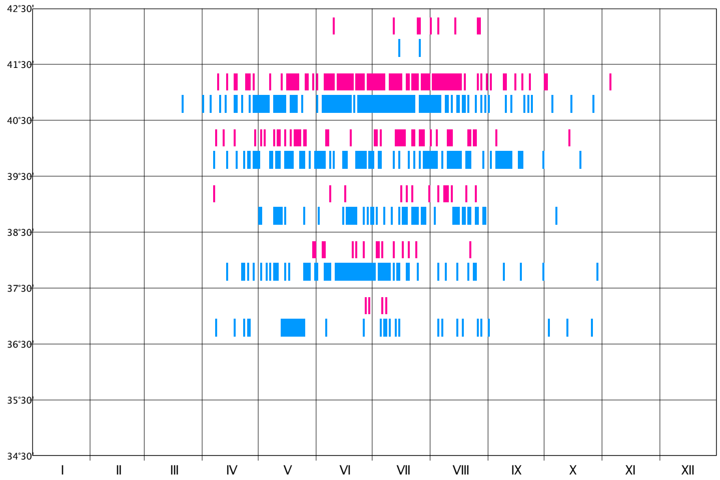


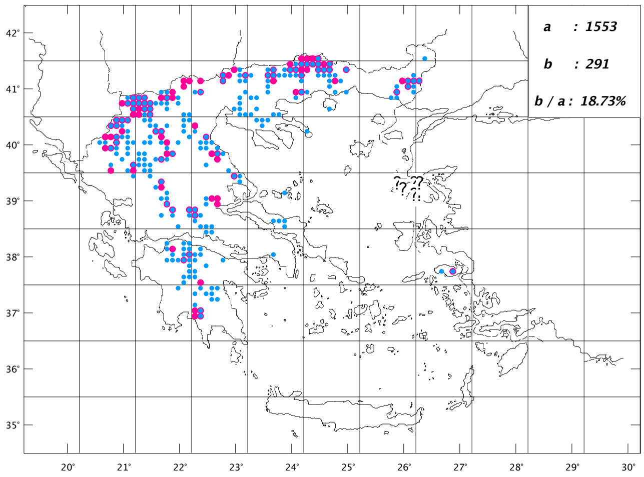


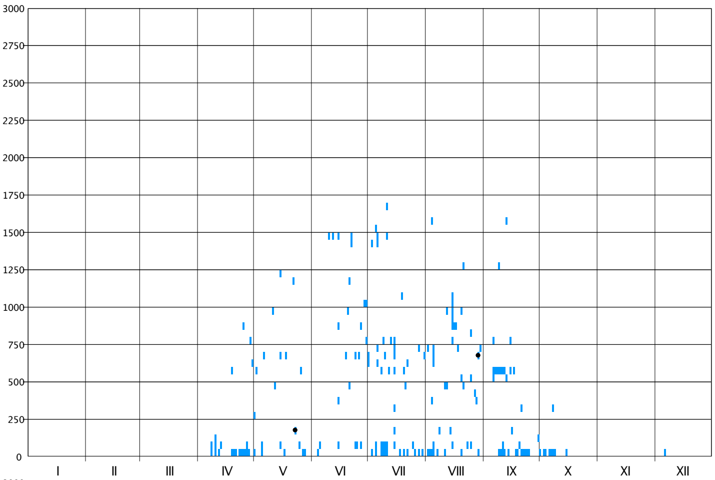


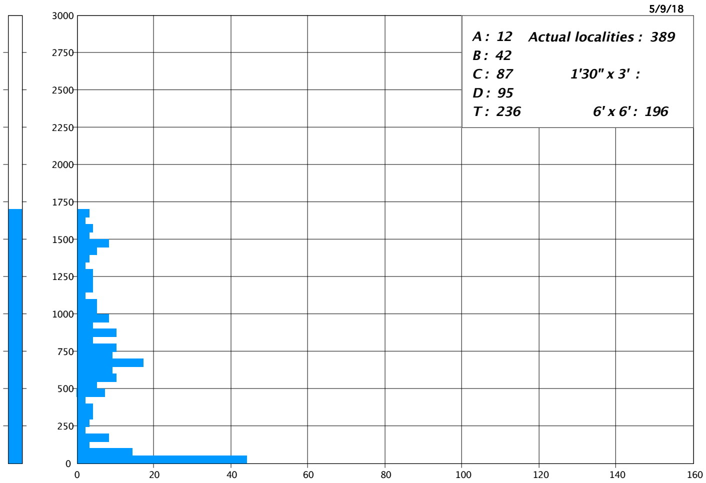


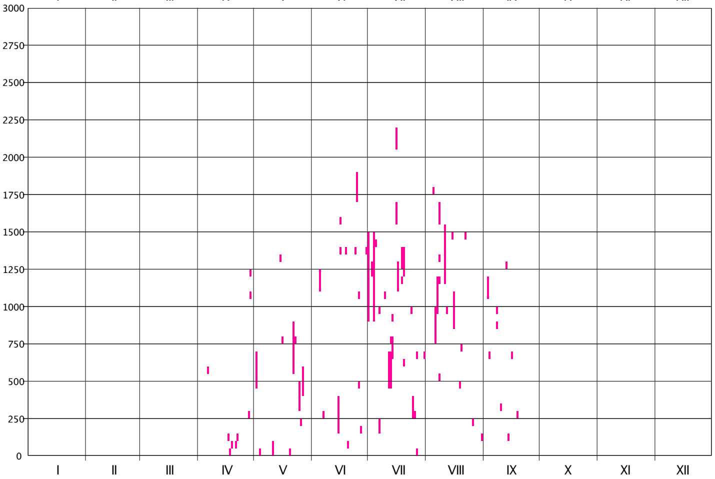
LYCAENIDAE *Lycaena tityrus*

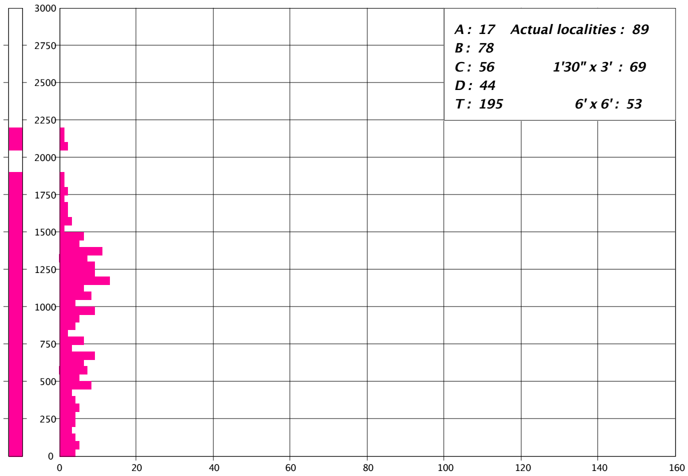


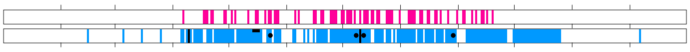




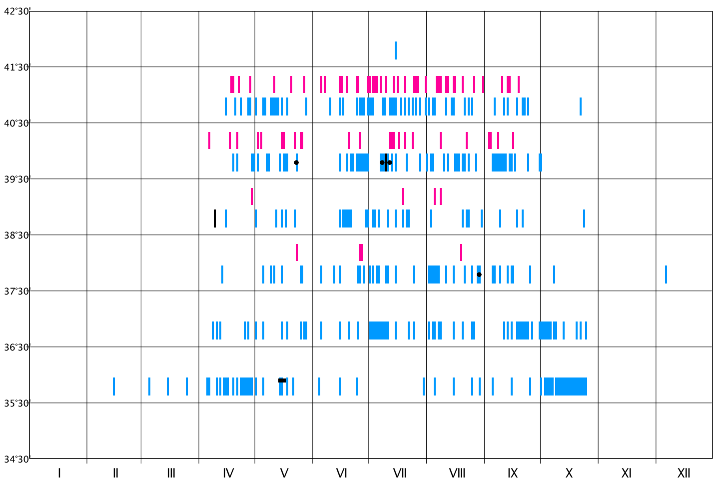


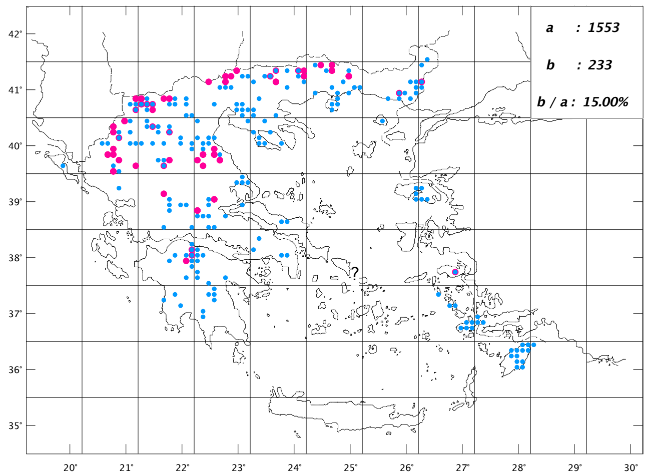


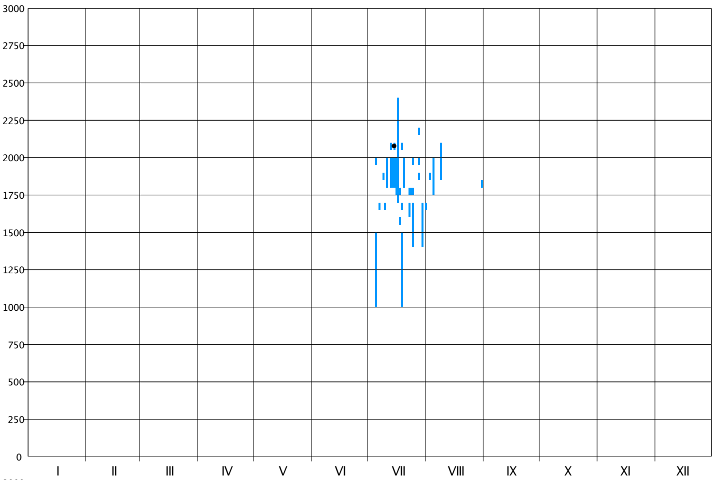


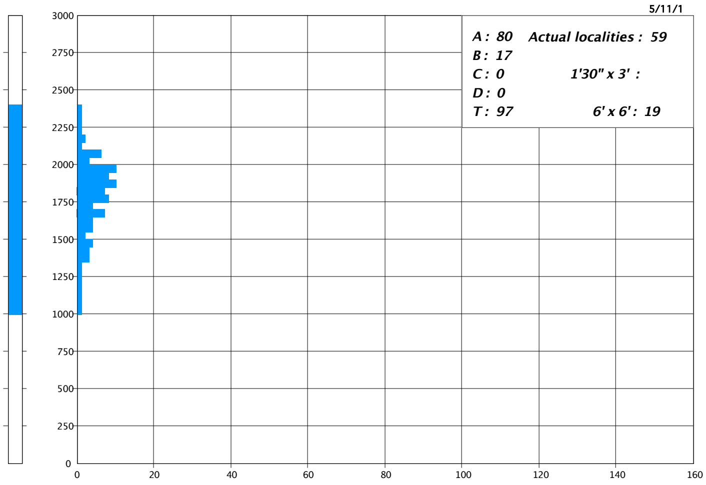


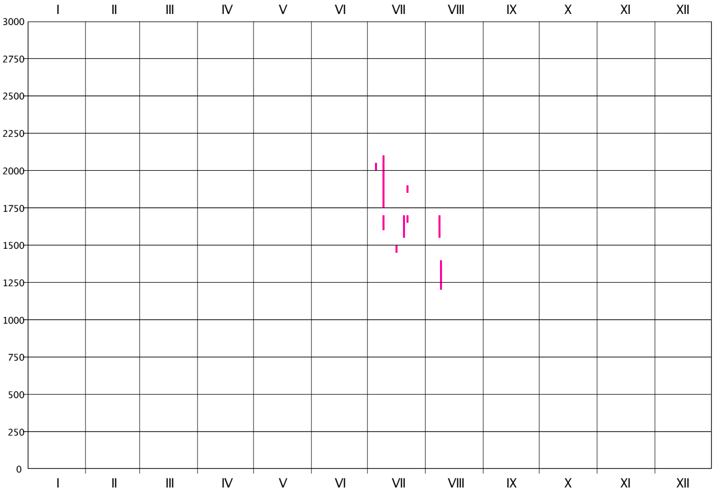
LYCAENIDAE *Lycaena thersamon*

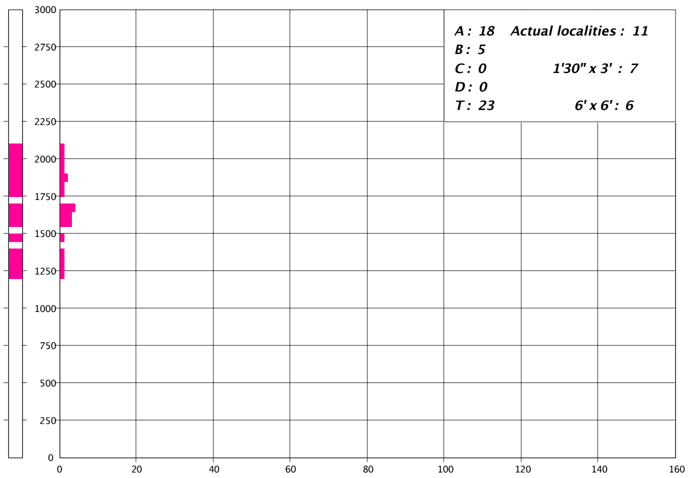


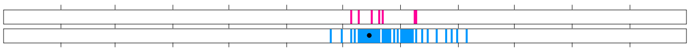




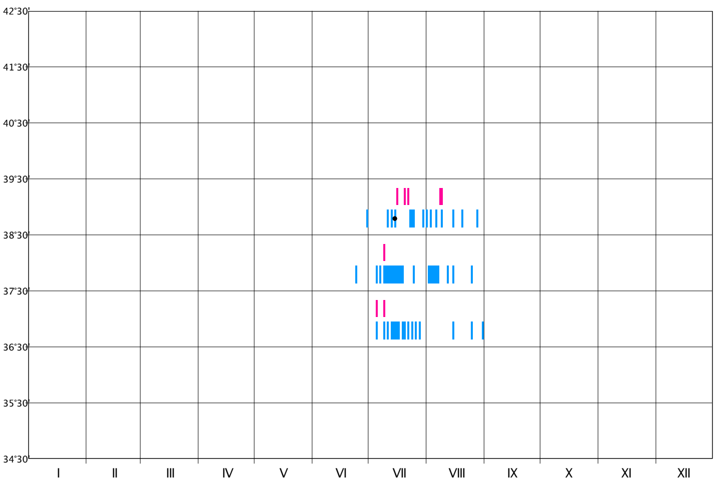


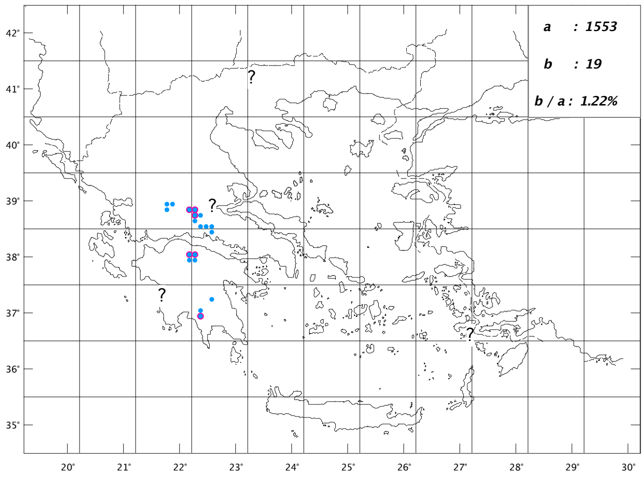






LYCAENIDAE *Lycaena thetis*





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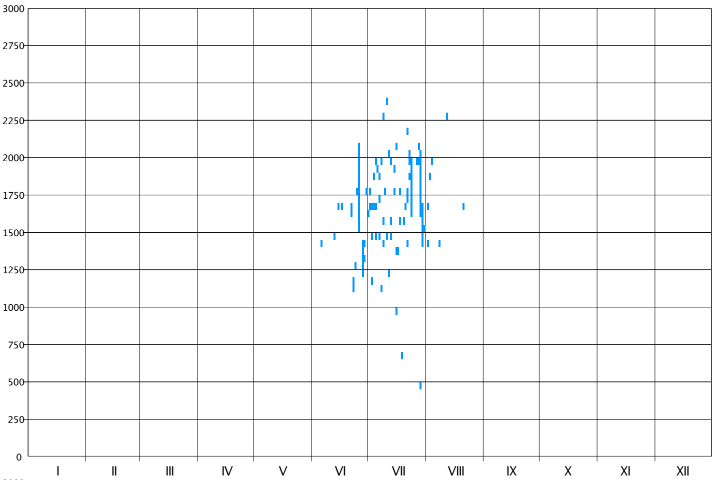
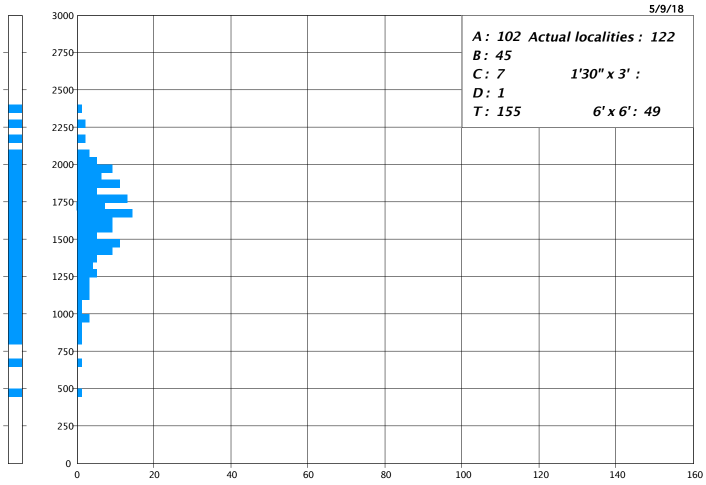
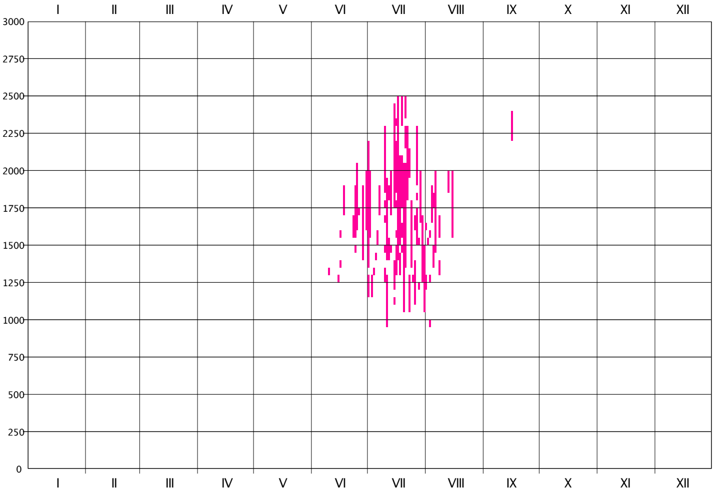
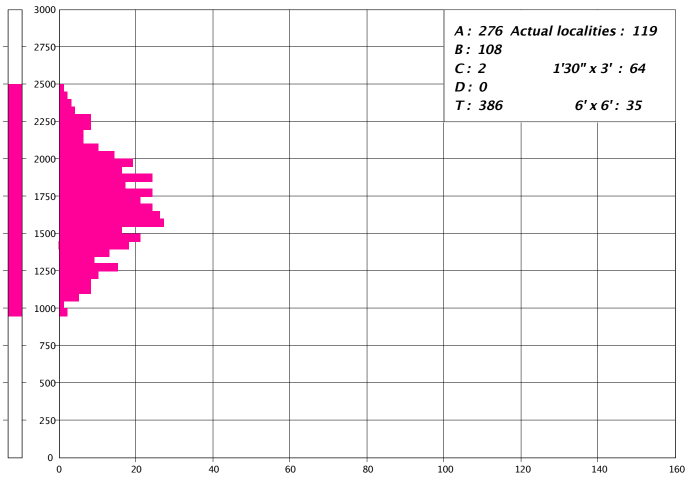
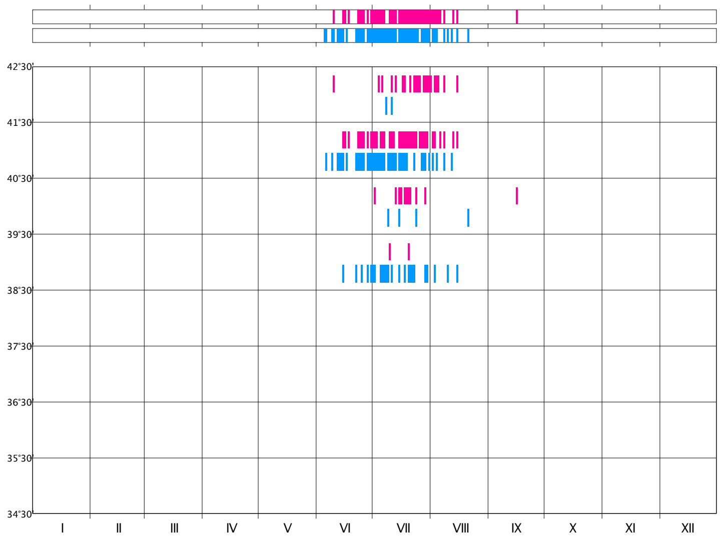


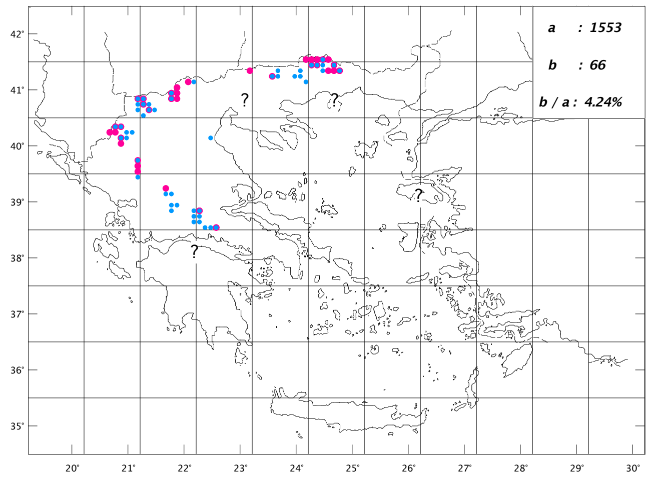






LYCAENIDAE *Lycaena candens*





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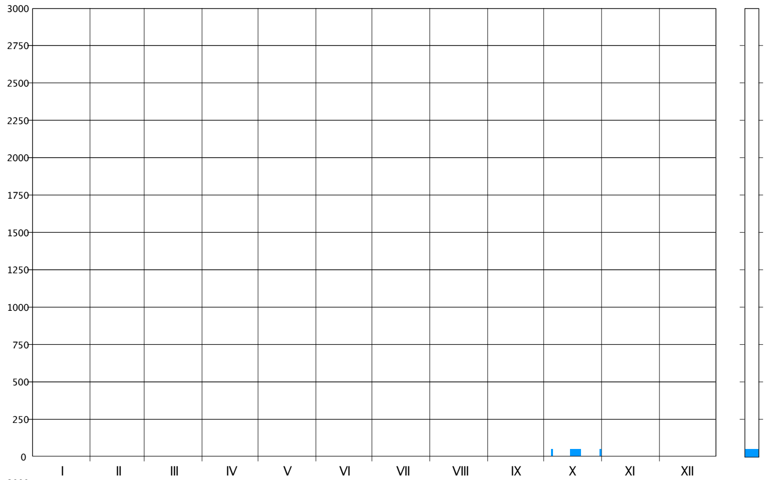
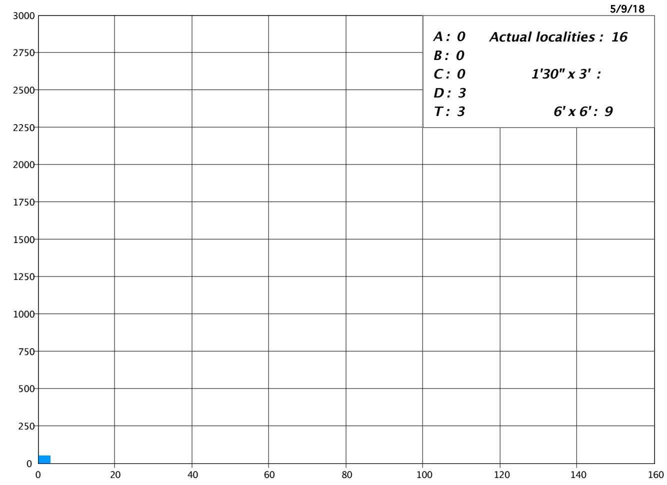
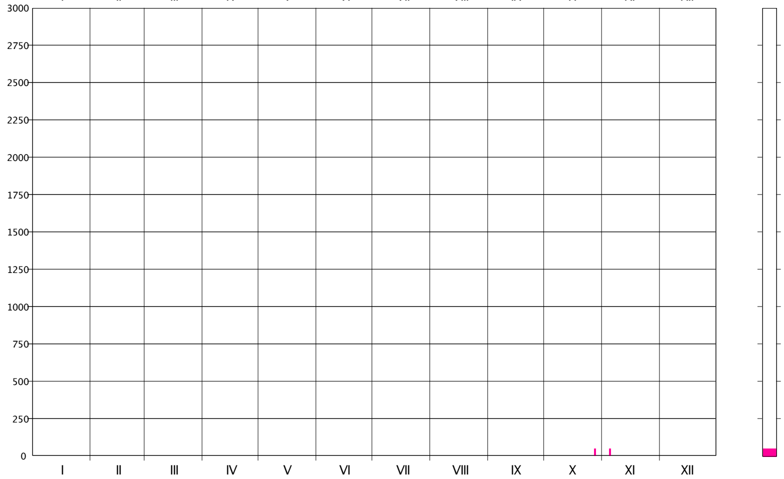
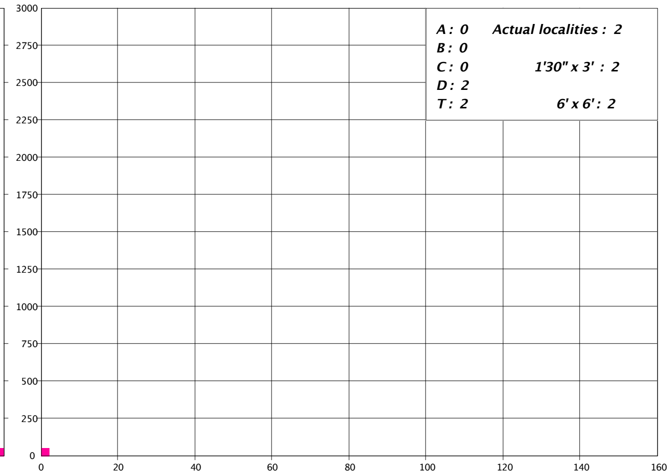
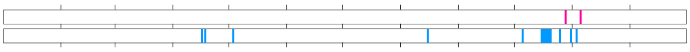


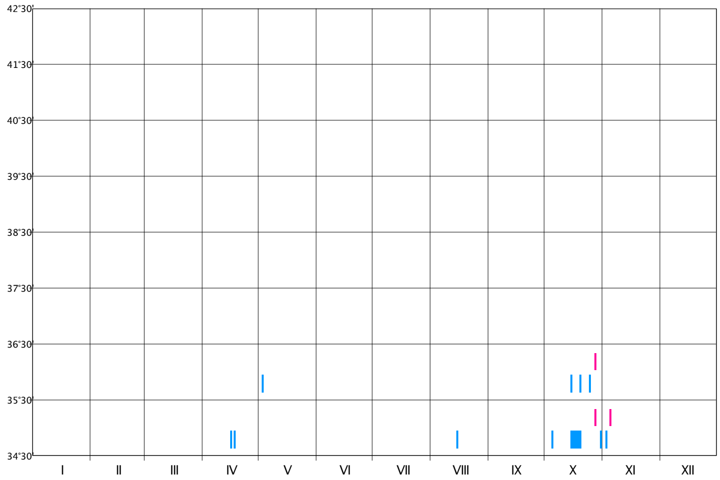


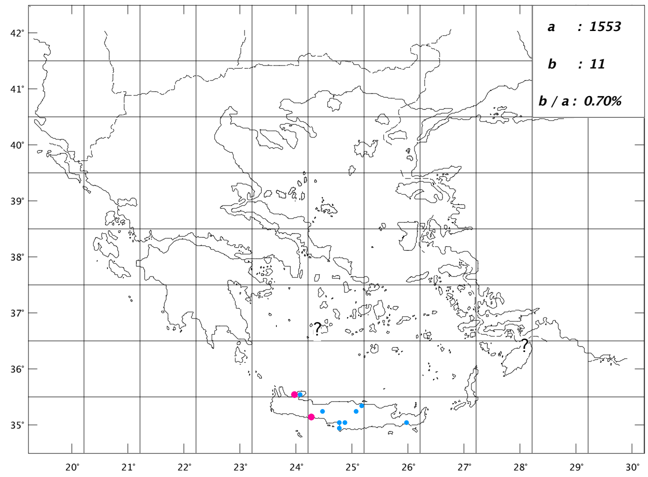


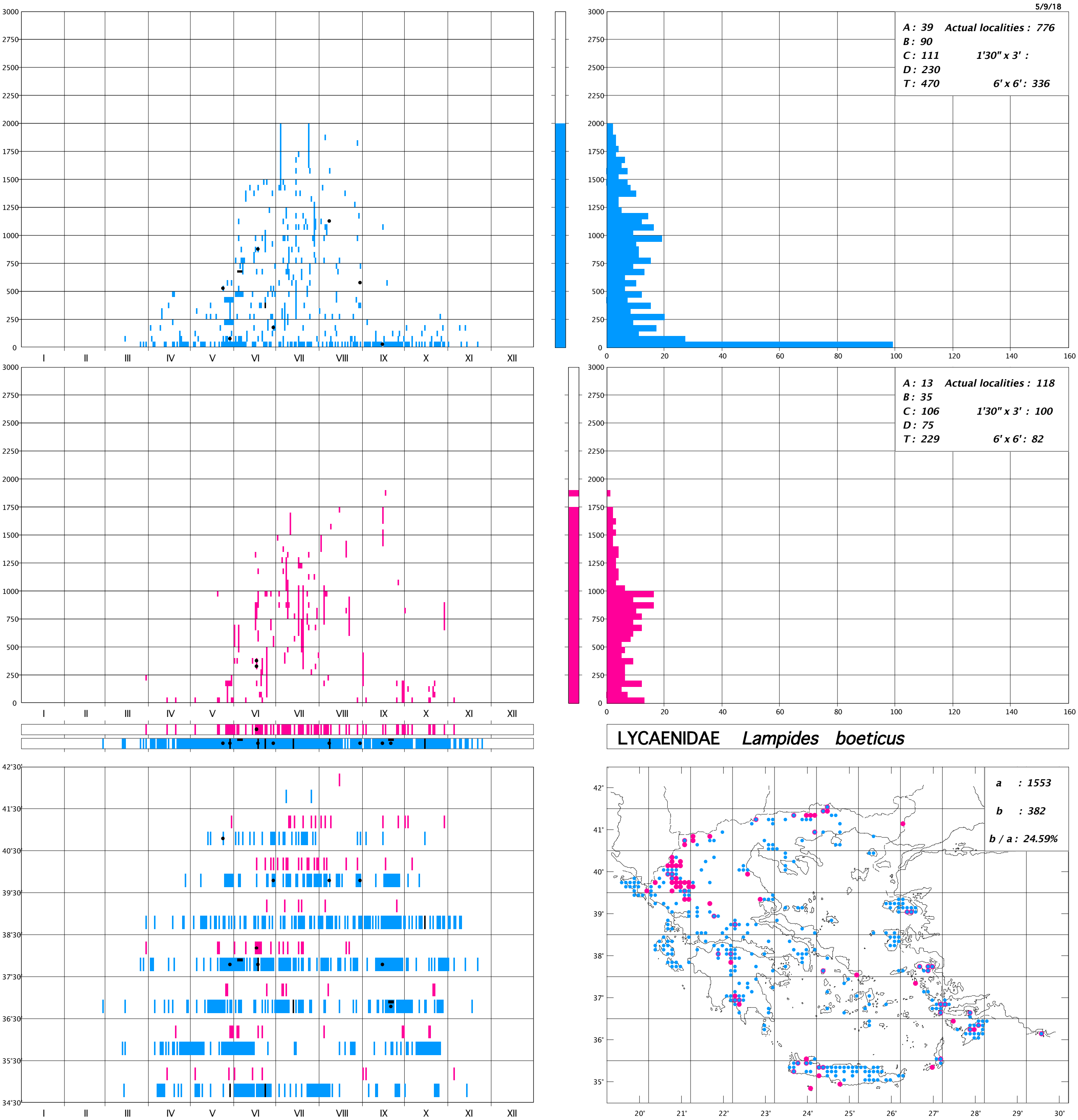




LYCAENIDAE *Zizeeria karsandra*







LYCAENIDAE *Lampides boeticus*

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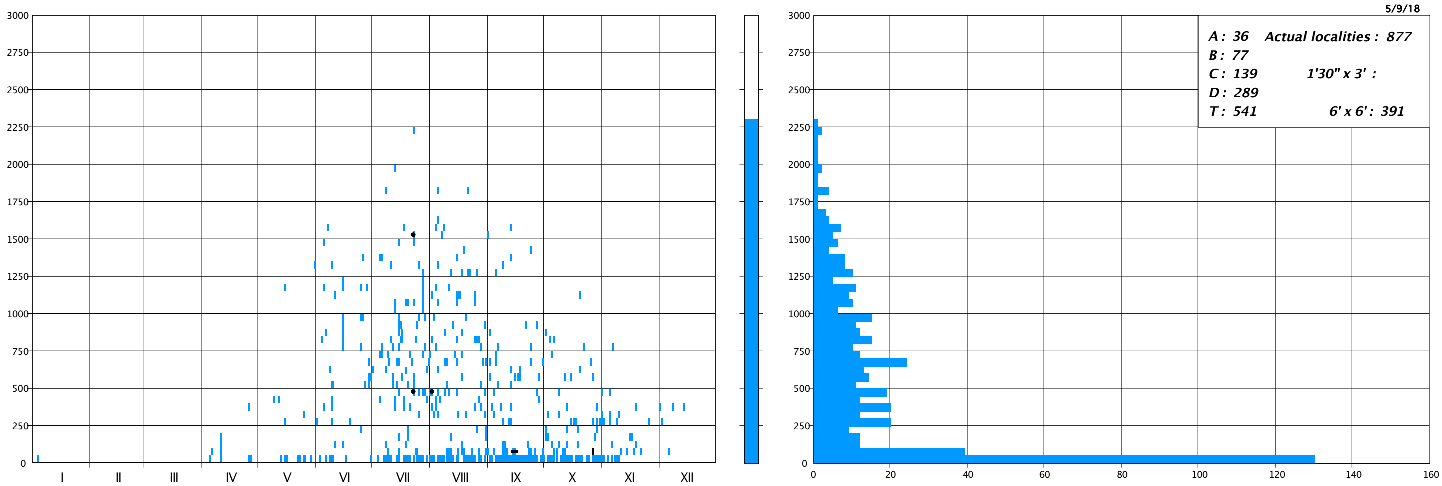
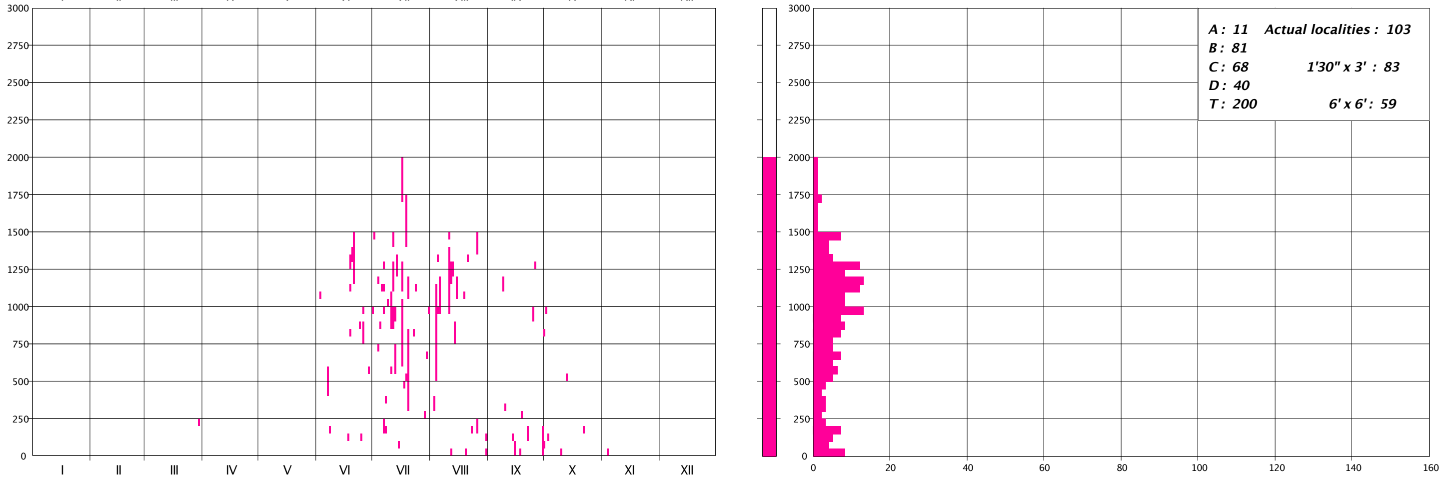
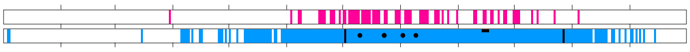
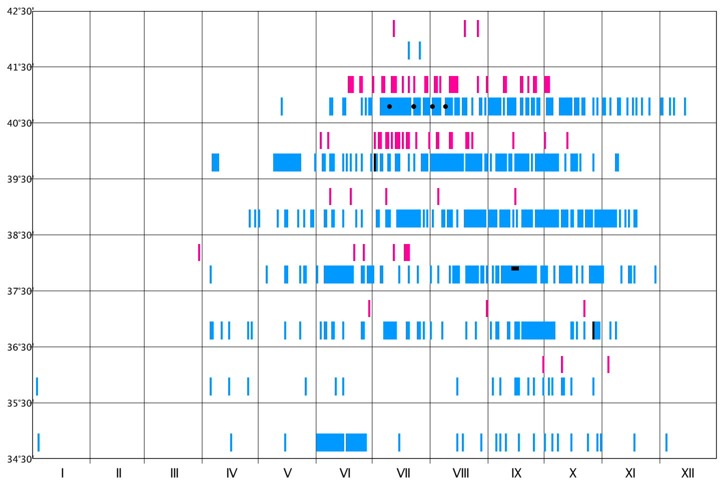
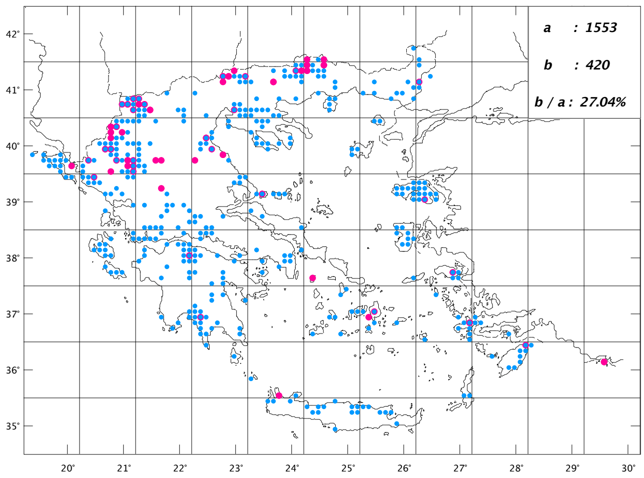


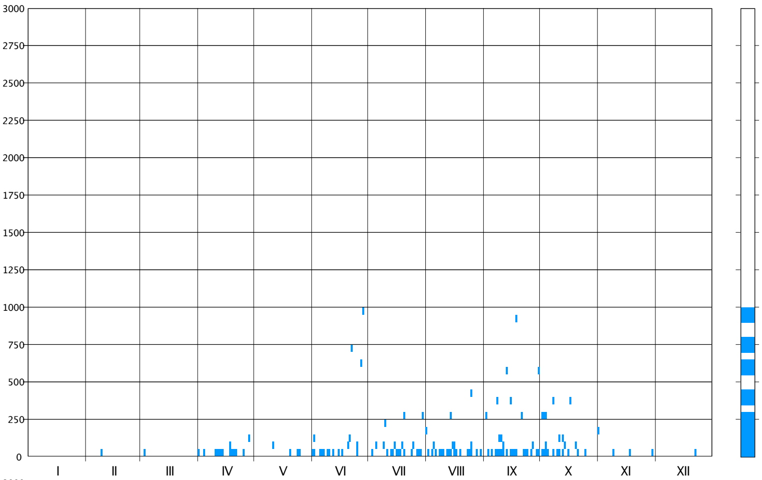


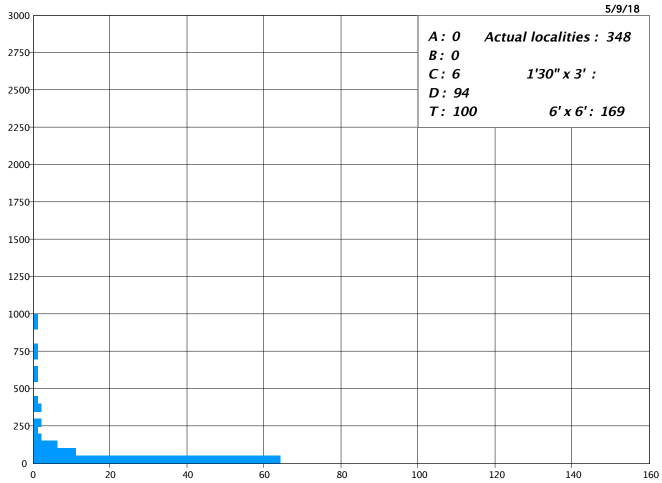


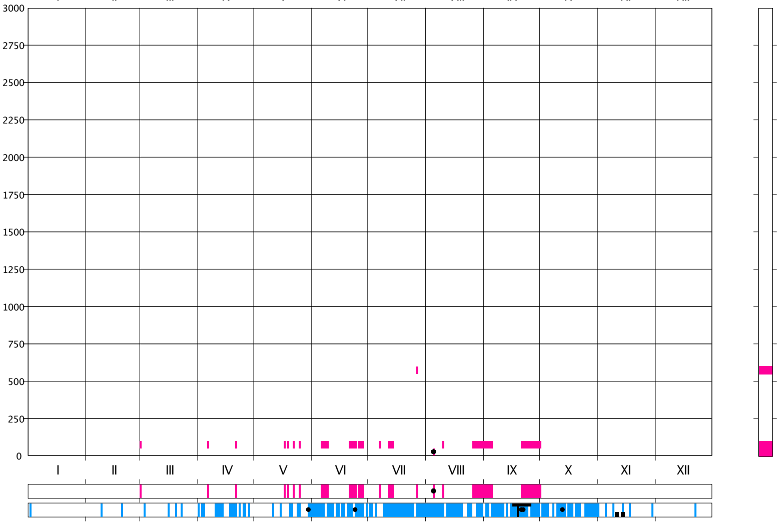
LYCAENIDAE *Leptodes pirithous*

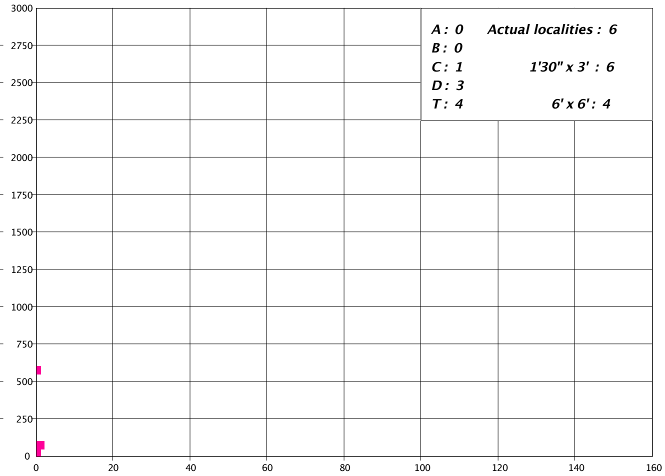




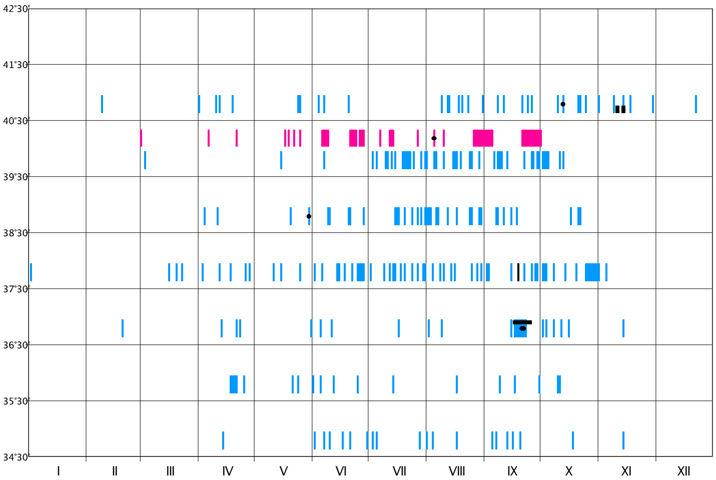


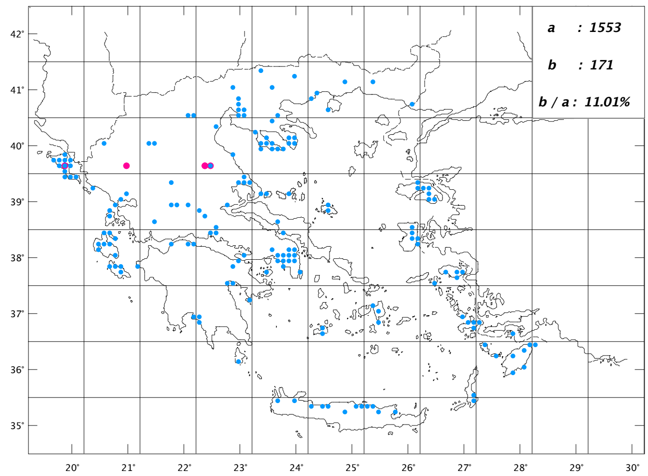


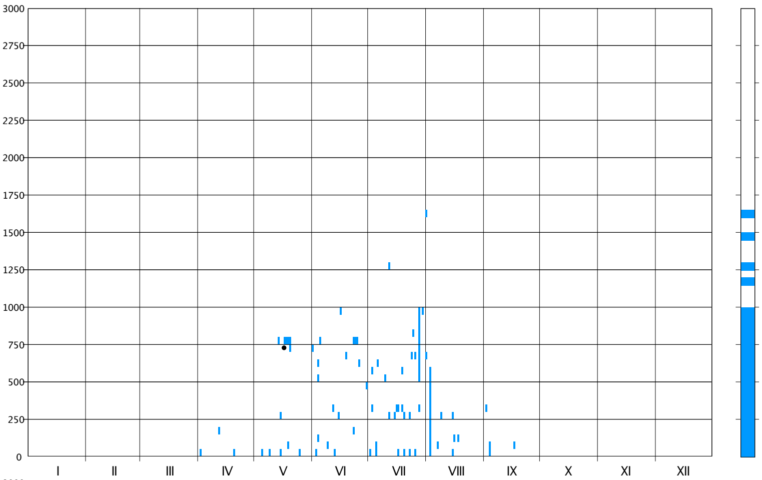


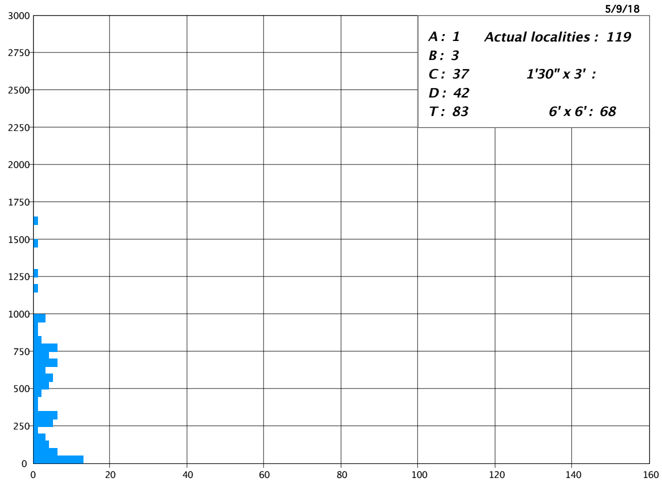


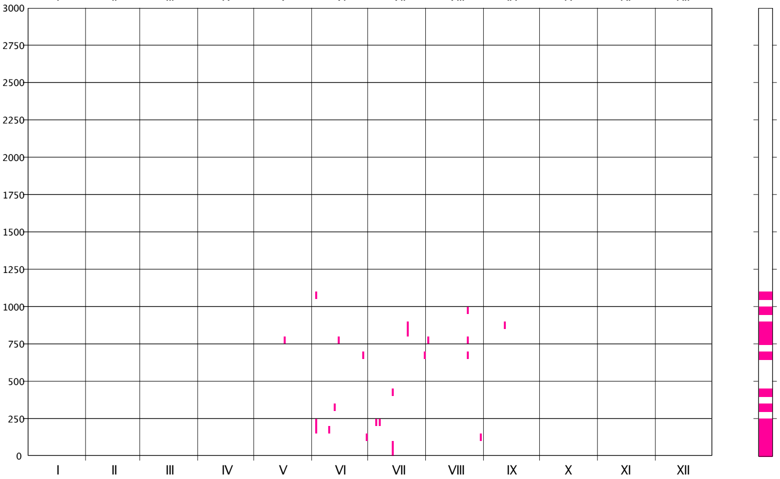
LYCAENIDAE *Cacyreus marshalli*

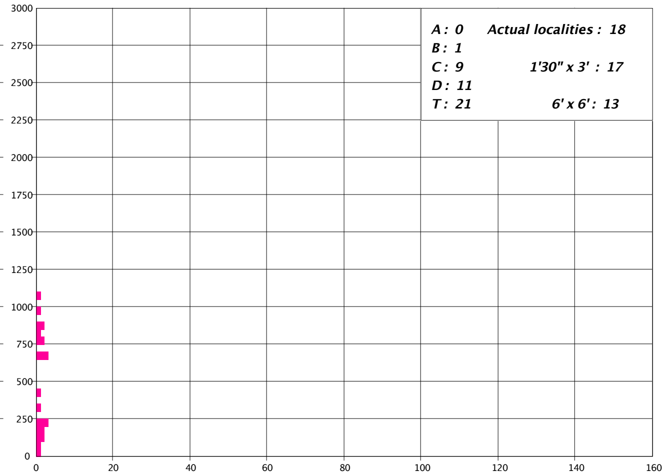




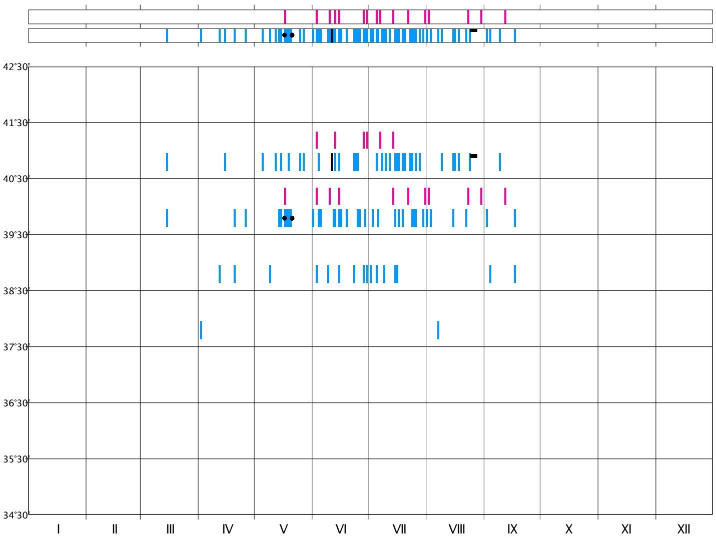


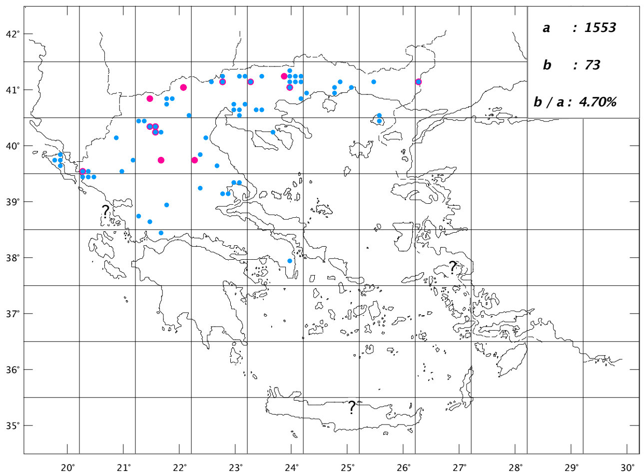


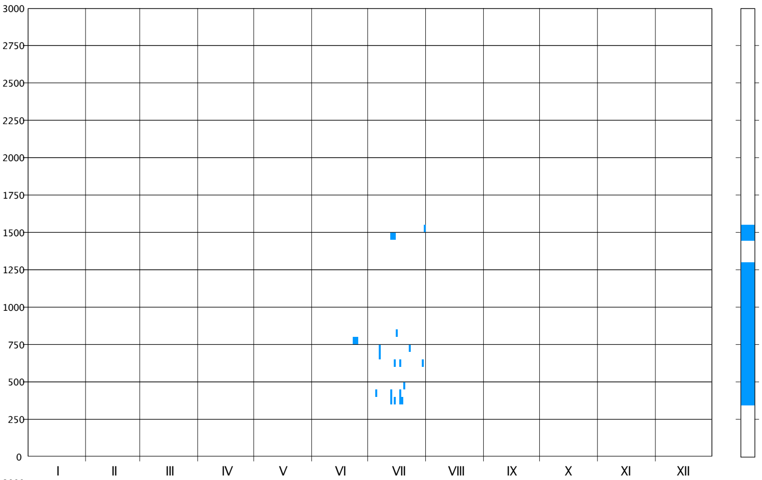


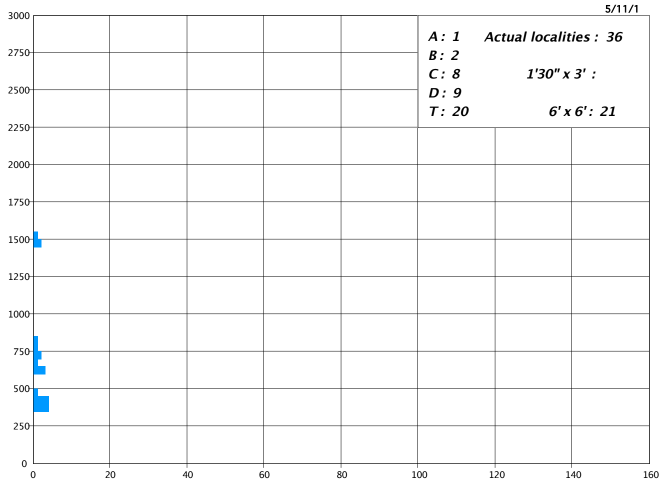


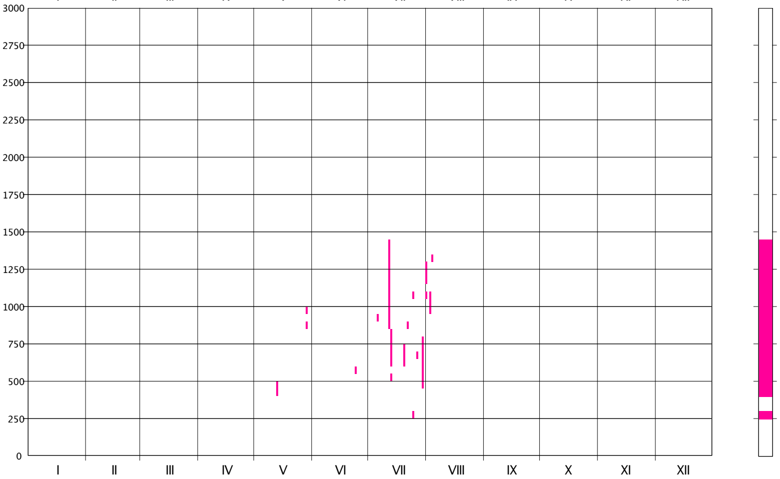
LYCAENIDAE *Tarucus balkanicus*

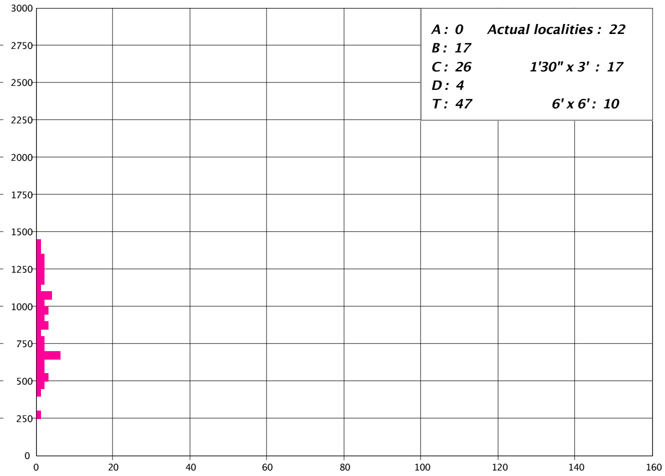


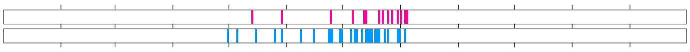




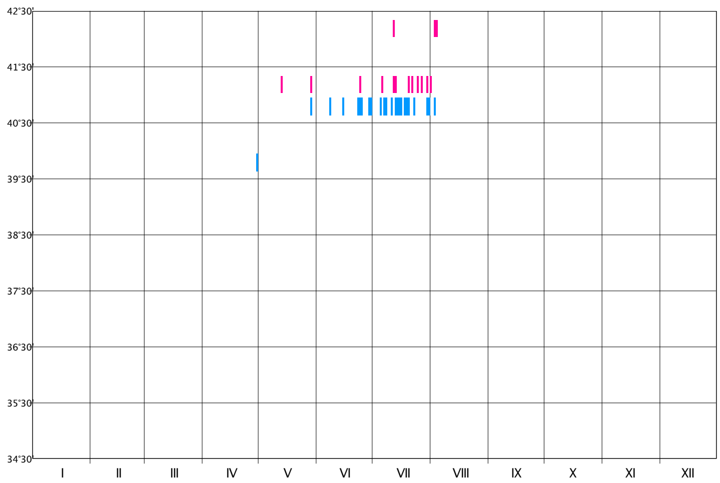


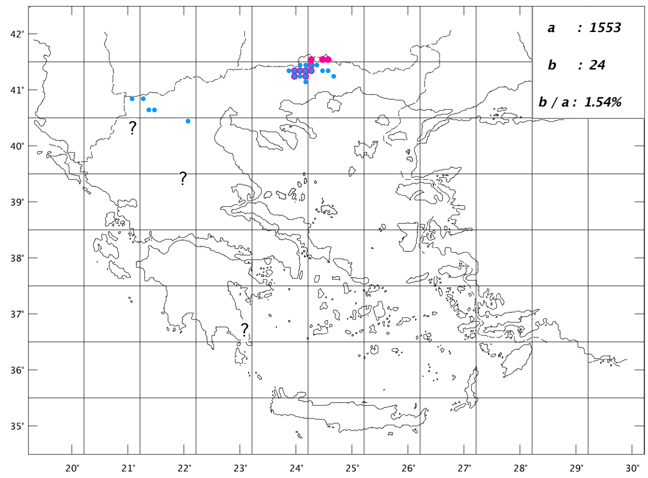


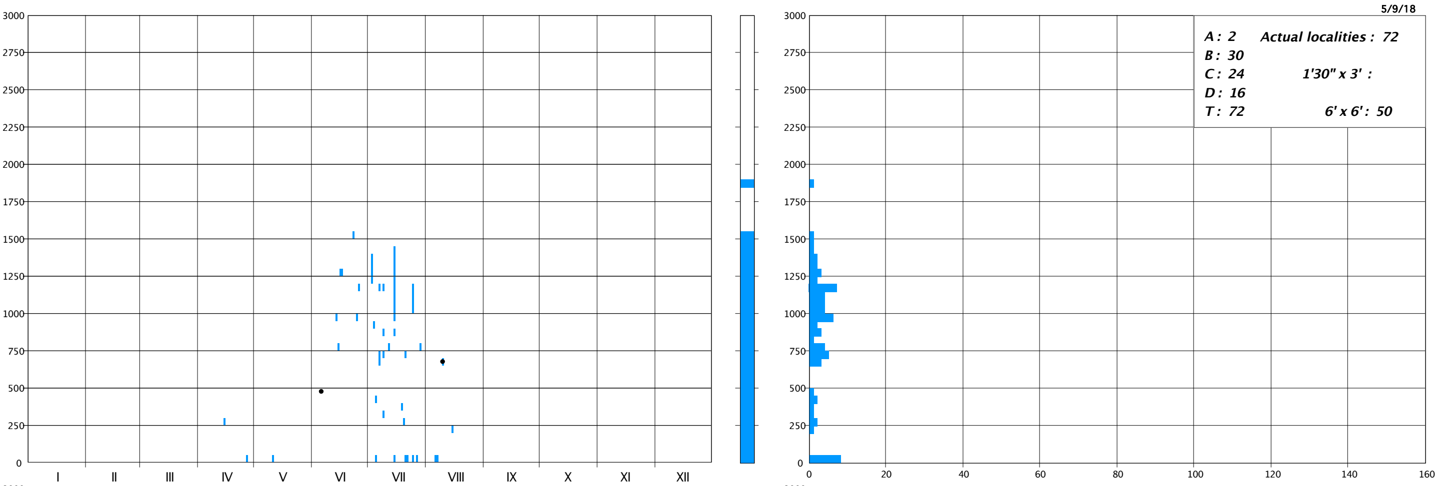


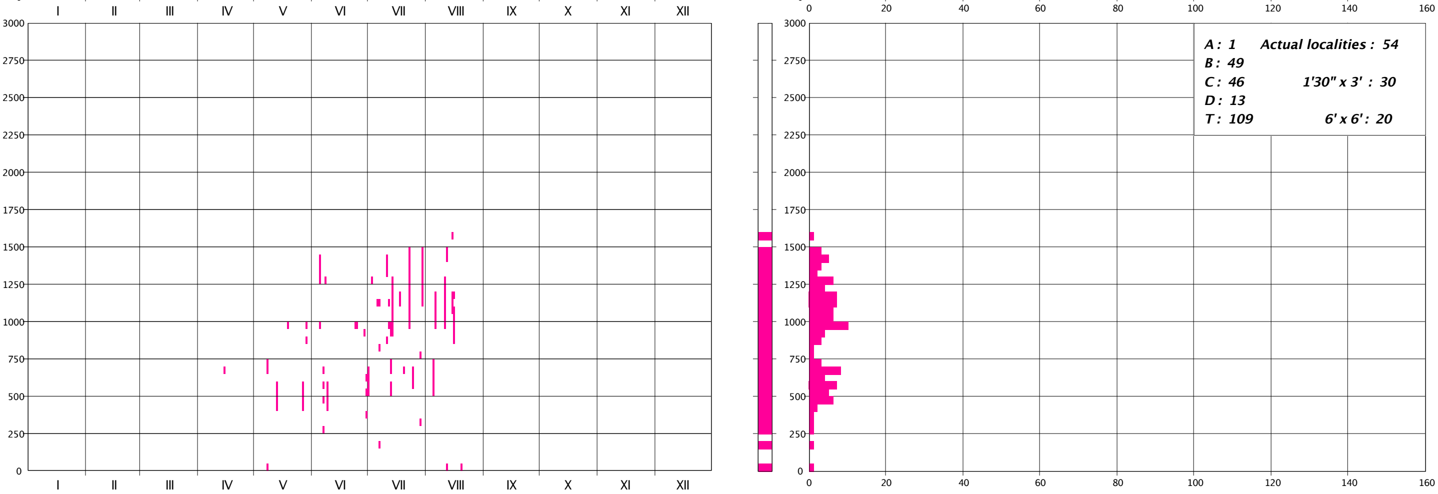


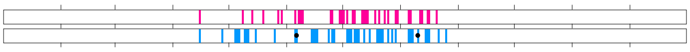
LYCAENIDAE *Cupido decoloratus*



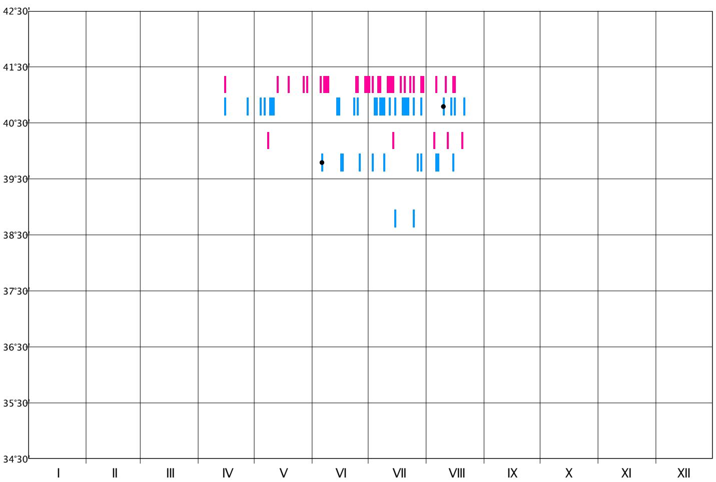


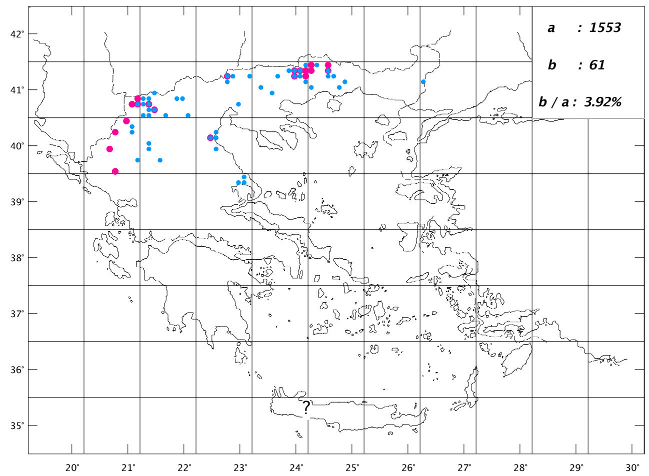


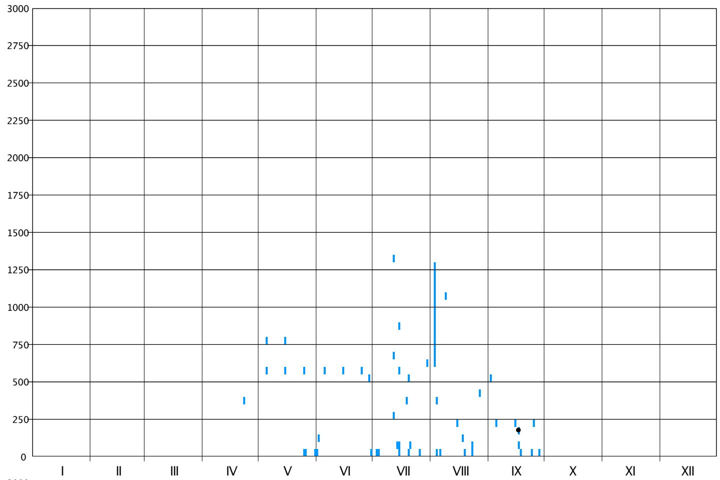


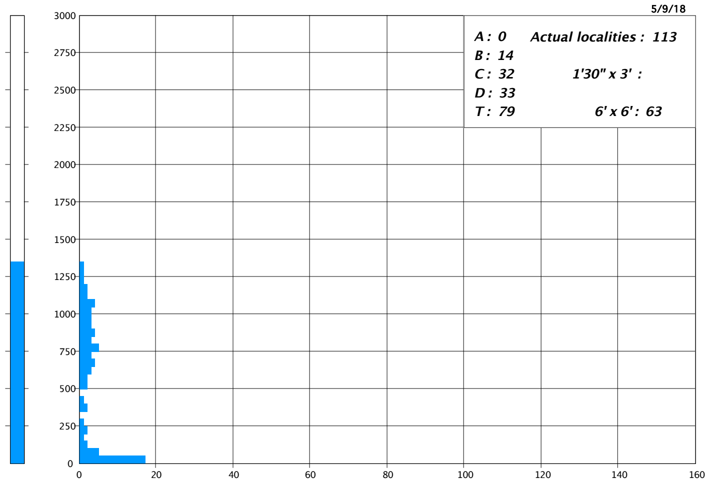


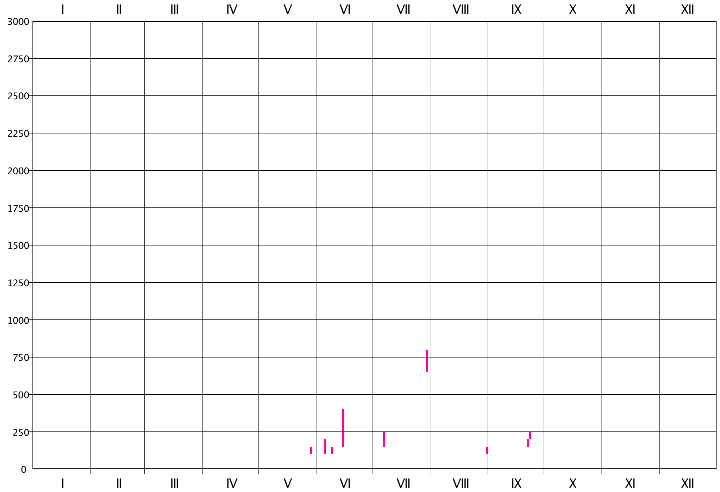
LYCAENIDAE *Cupido alcetas*

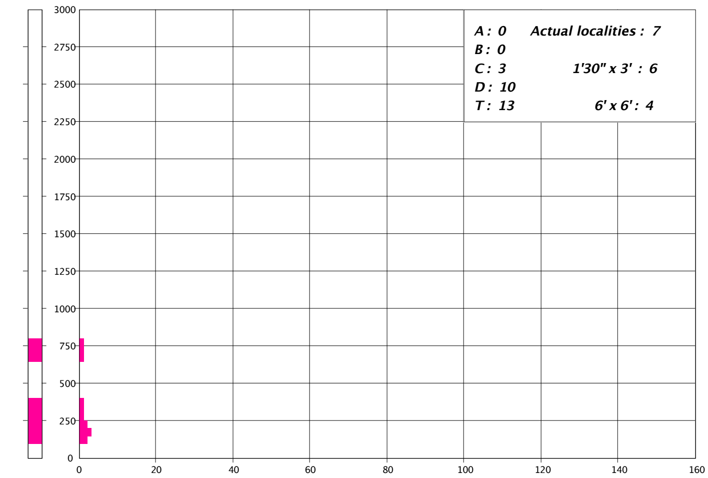


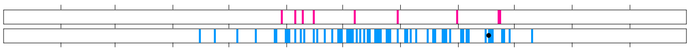




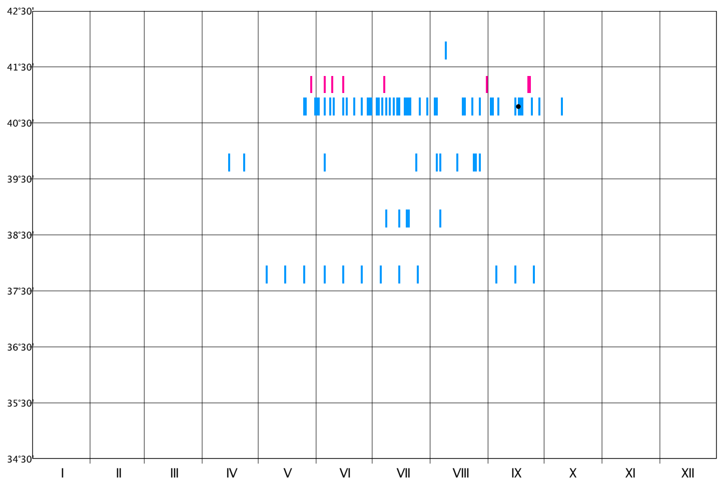


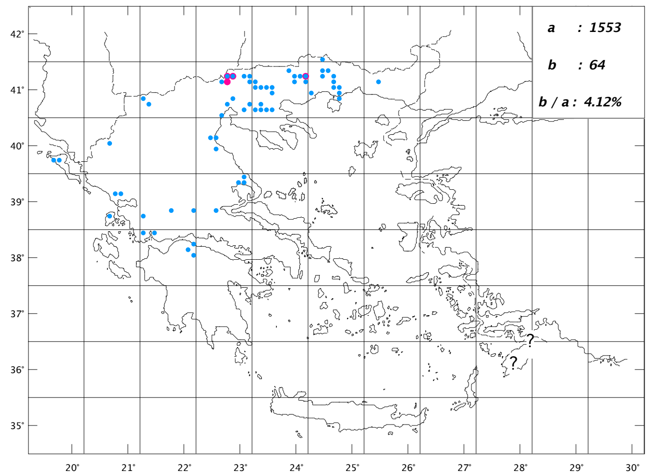


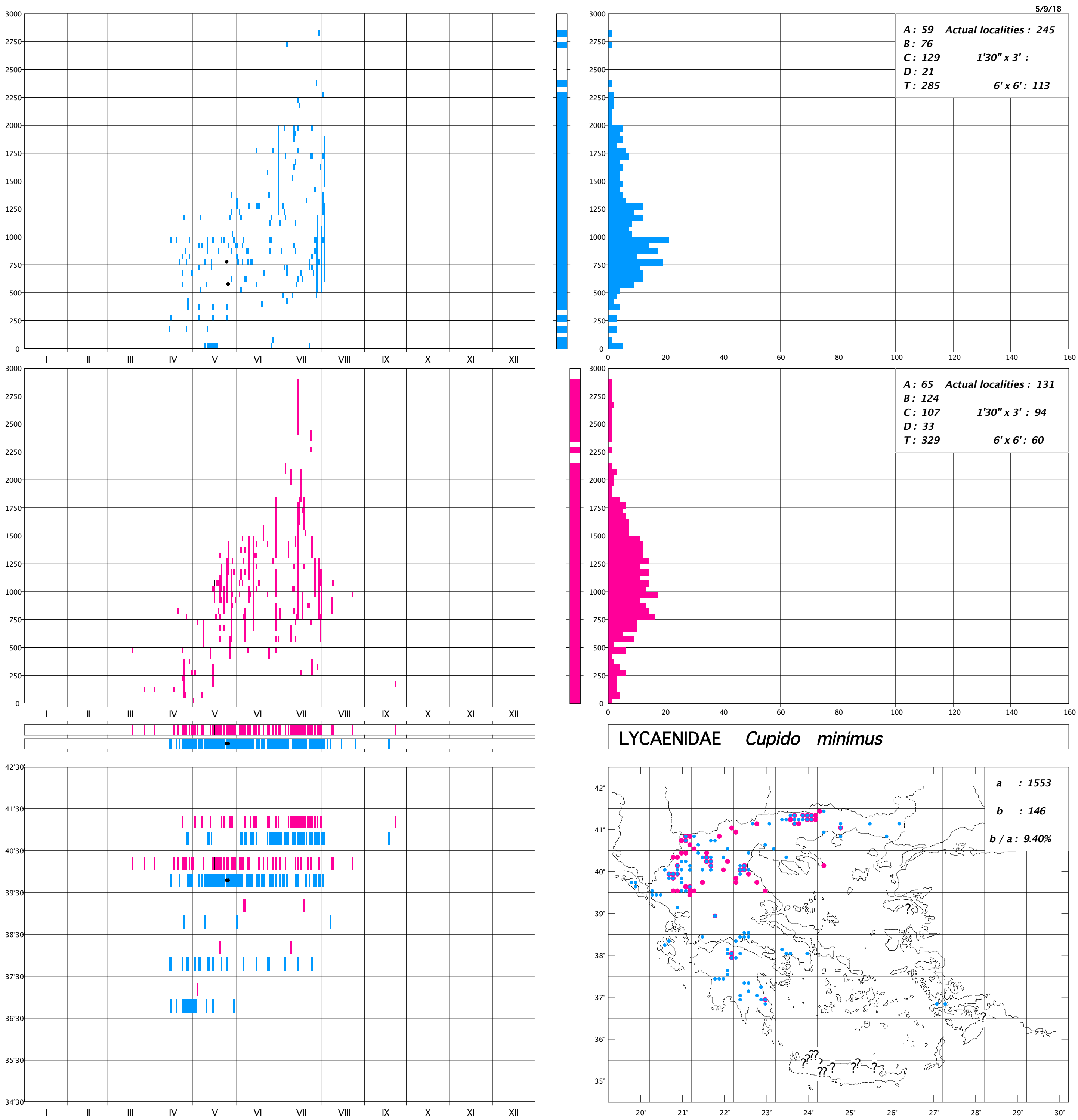


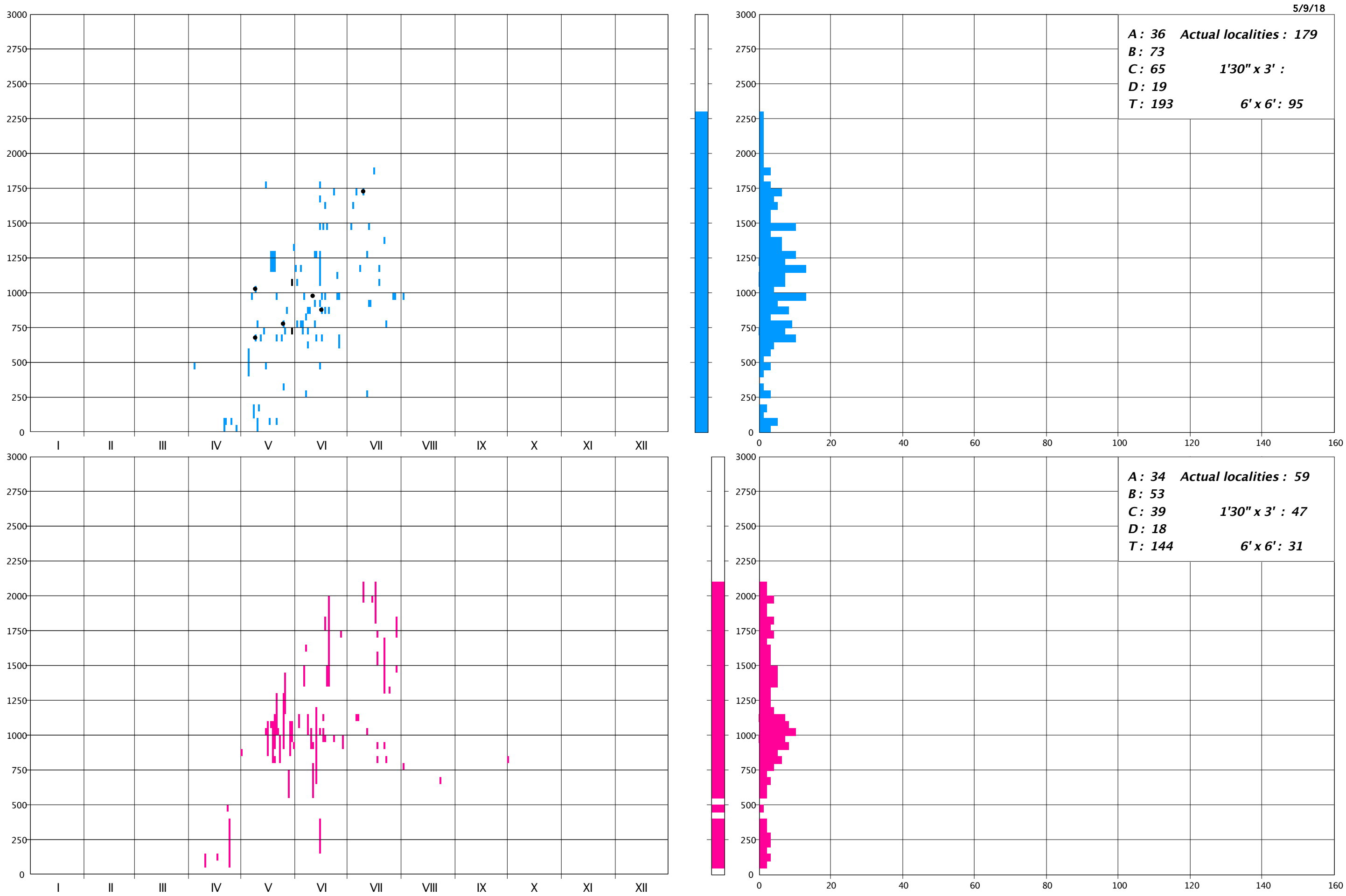


LYCAENIDAE *Cupido argiades*

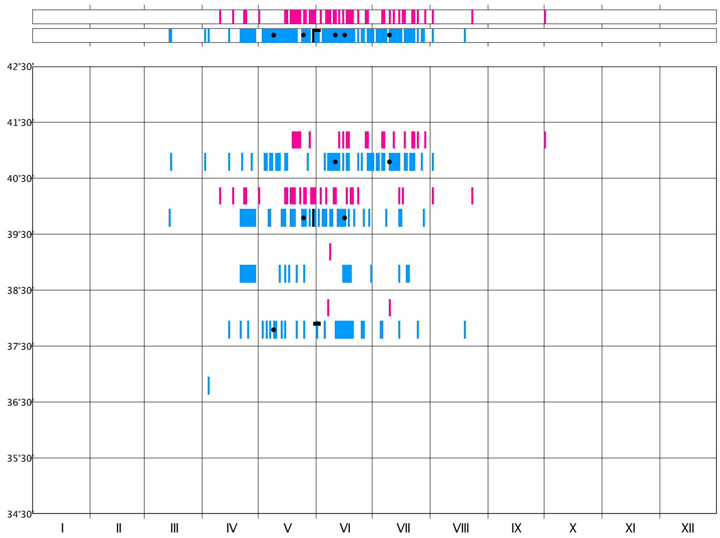


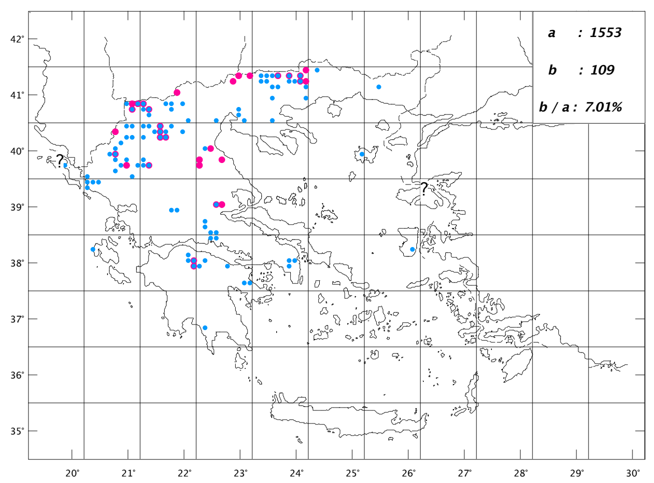


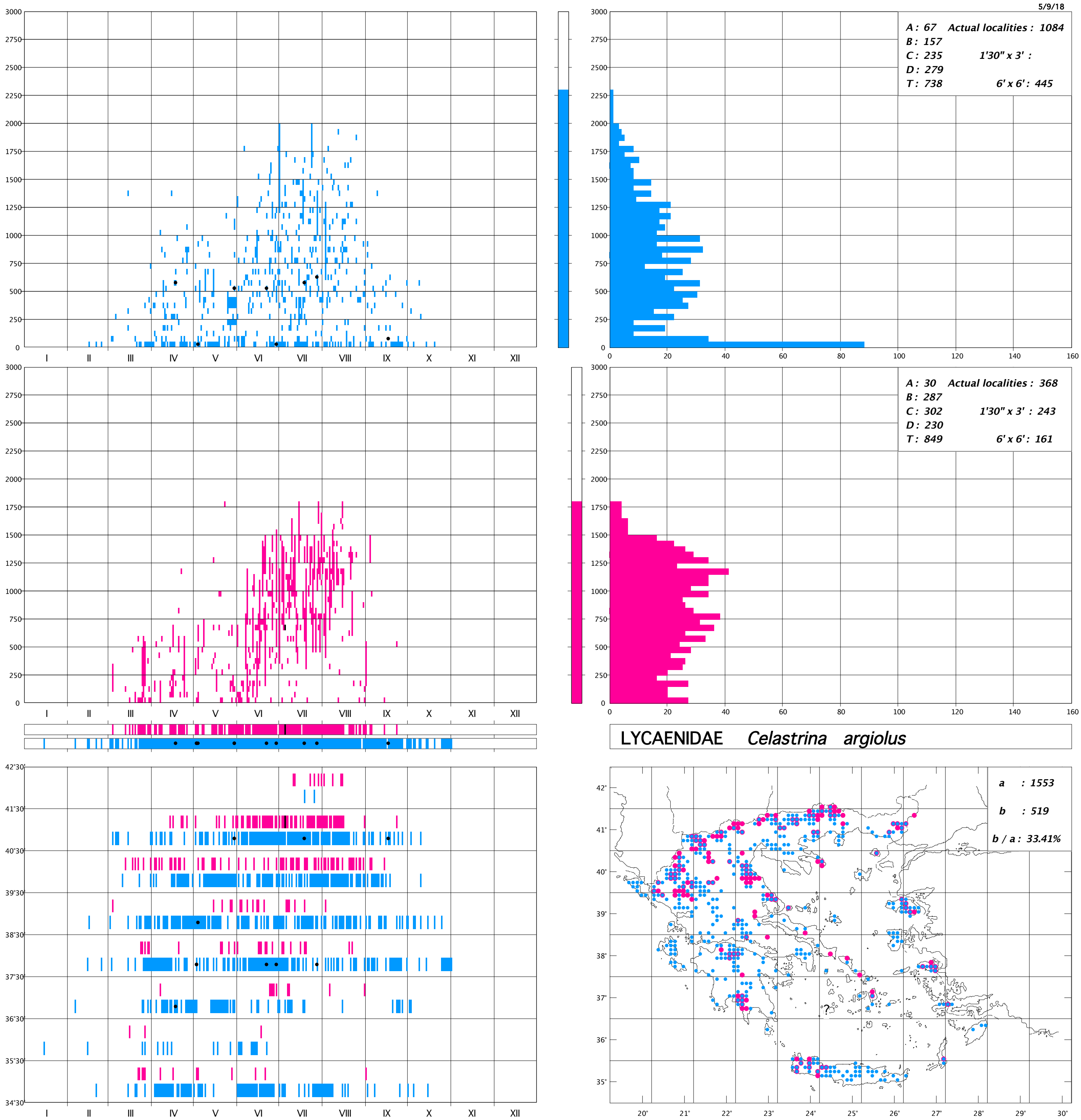

5/9/18
A : 59 Actual localities : 245
B : 76
C : 129 1'30" x 3' :
D : 21
T : 285 6' x 6' : 113
A : 65 Actual localities : 131
B : 124
C : 107 1'30" x 3' : 94
D : 33
T : 329 6' x 6' : 60
LYCAENIDAE *Cupido minimus*
a : 1553
b : 146
b / a : 9.40%



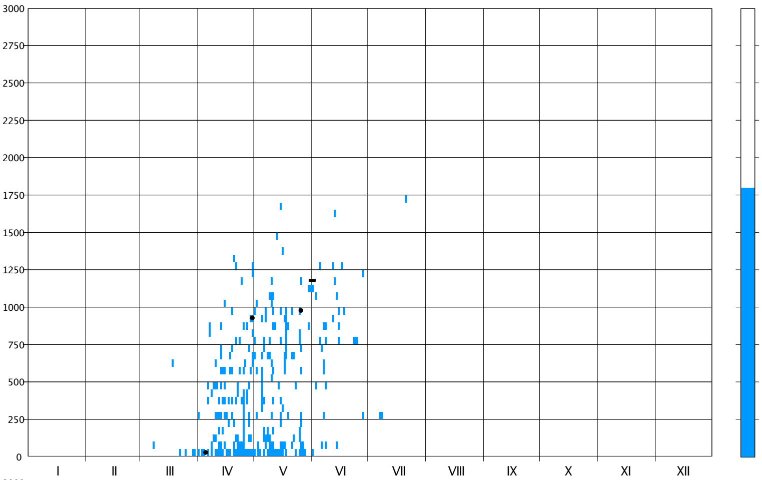
LYCAENIDAE *Cupido osiris*

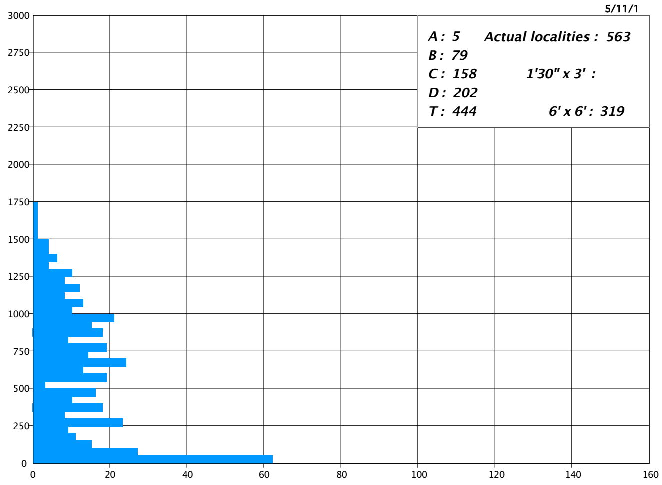


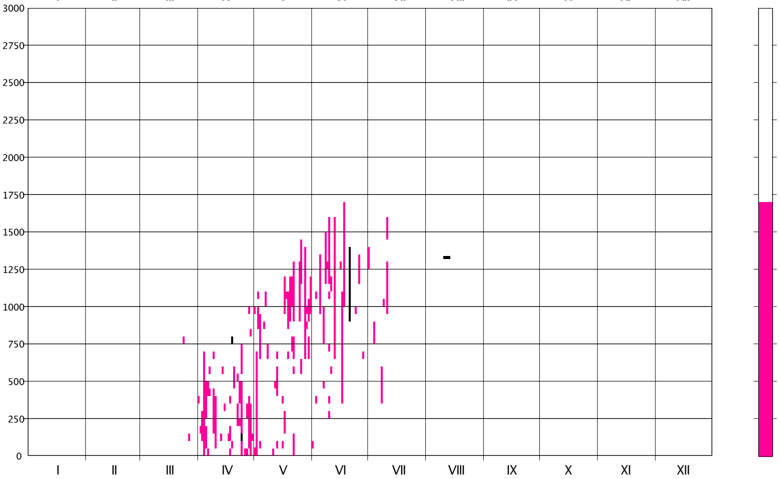


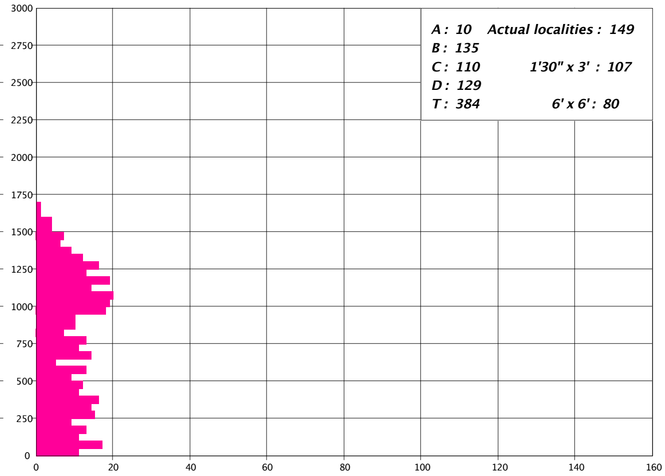

5/9/18
A : 67 Actual localities : 1084
B : 157
C : 235 1'30" x 3' :
D : 279
T : 738 6' x 6' : 445
A : 30 Actual localities : 368
B : 287
C : 302 1'30" x 3' : 243
D : 230
T : 849 6' x 6' : 161
LYCAENIDAE *Celastrina argiolus*
a : 1553
b : 519
b / a : 33.41%

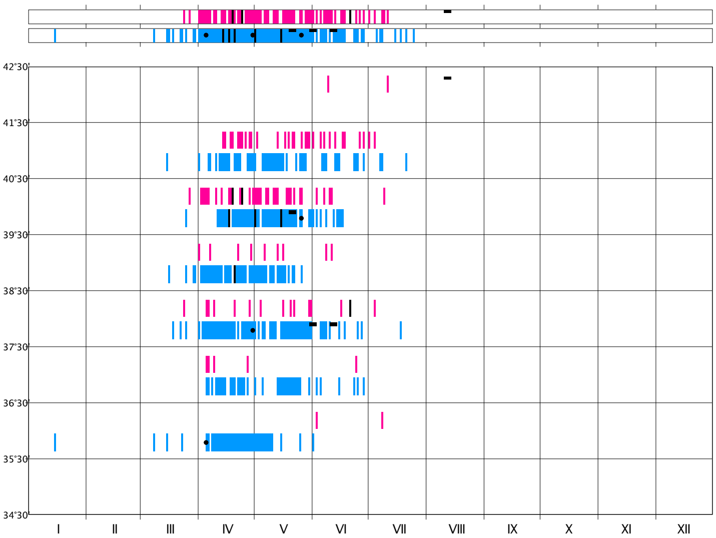
5/11/1



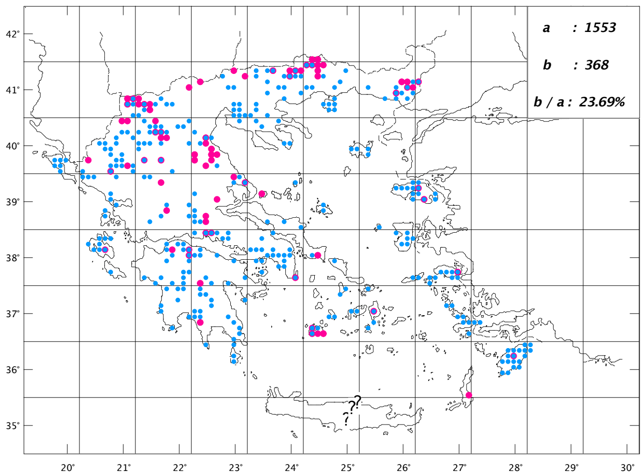


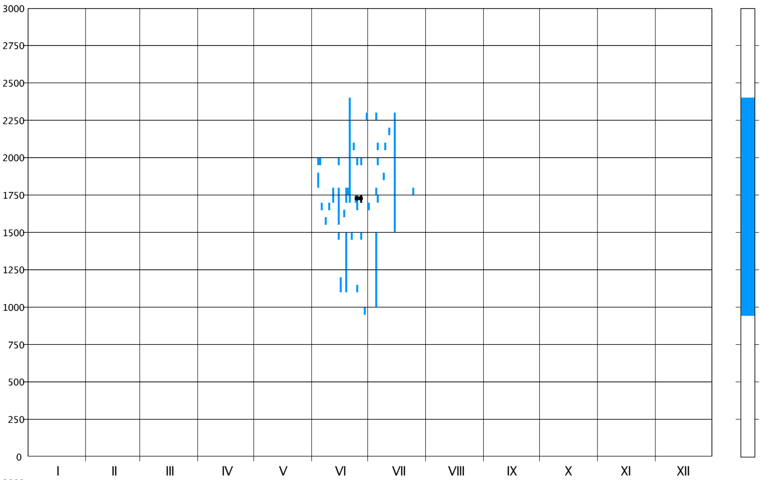


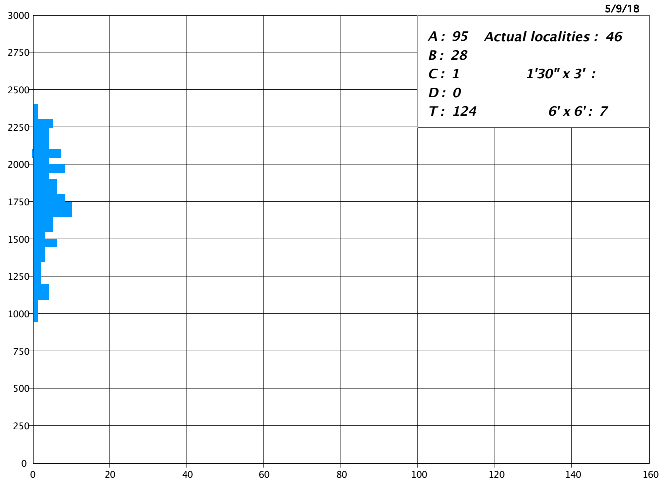


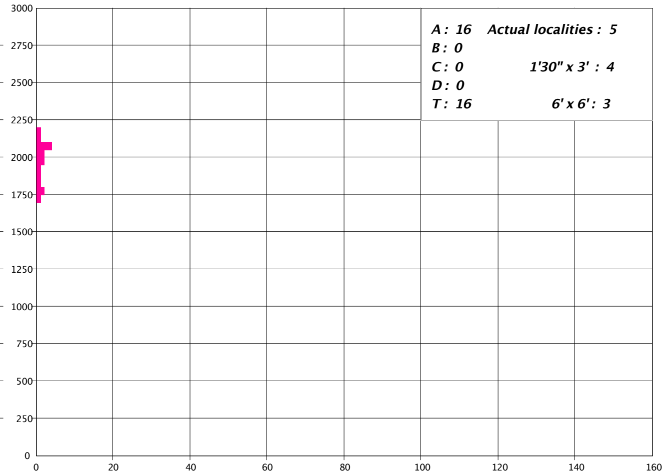


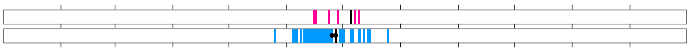
LYCAENIDAE *Glaucopsyche alexis*



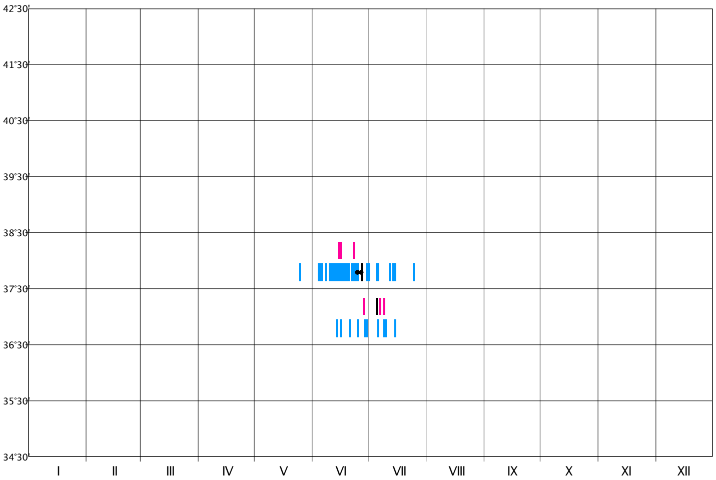


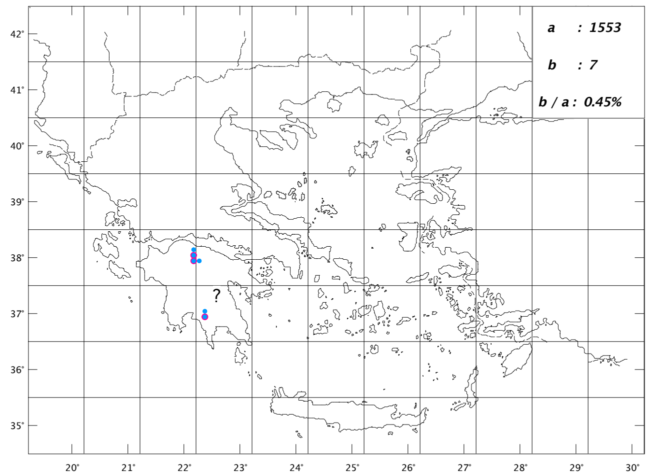


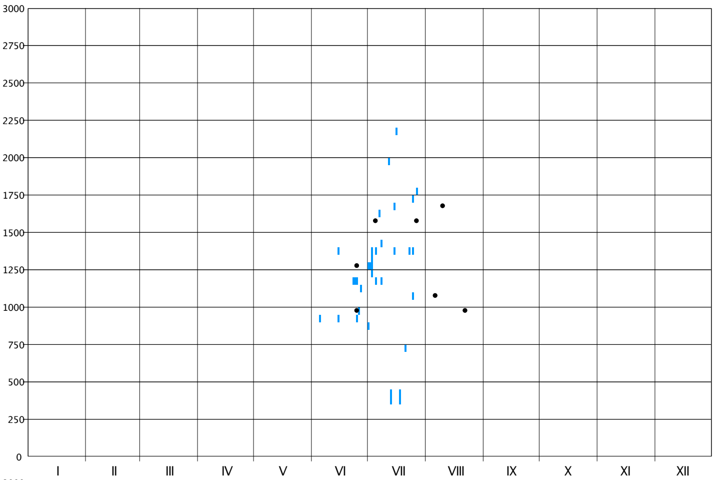


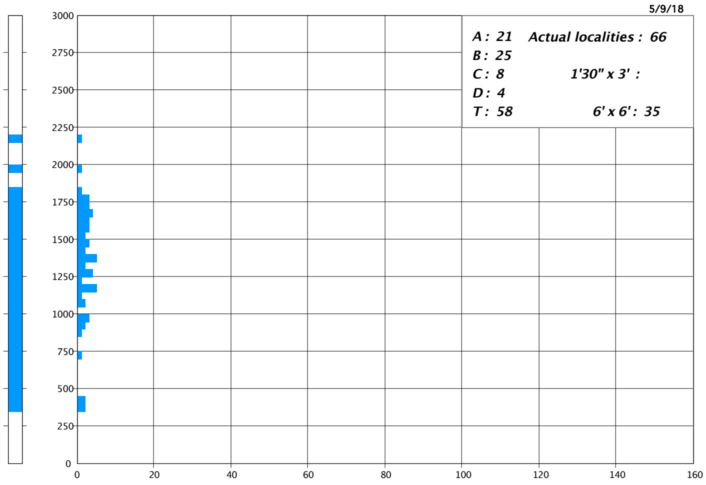


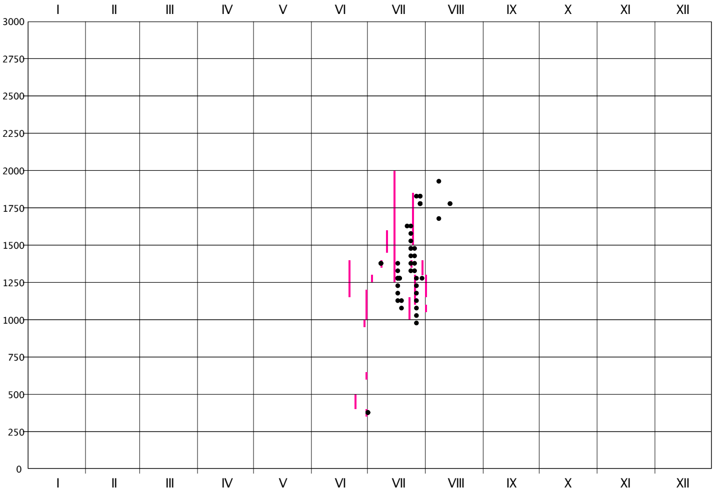
LYCAENIDAE *Turanana taygetica*

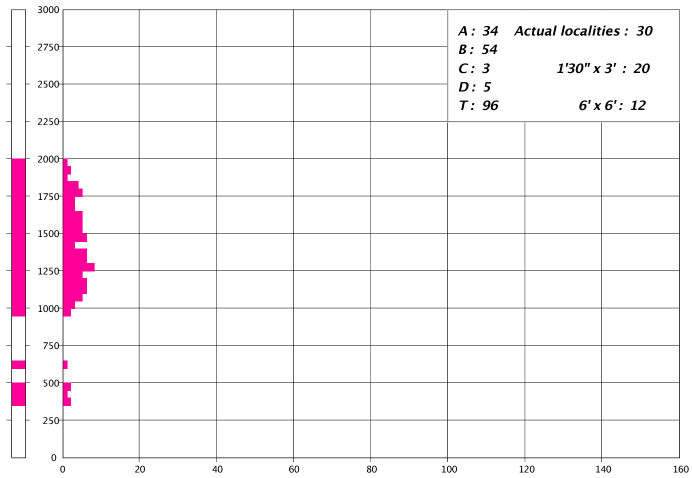




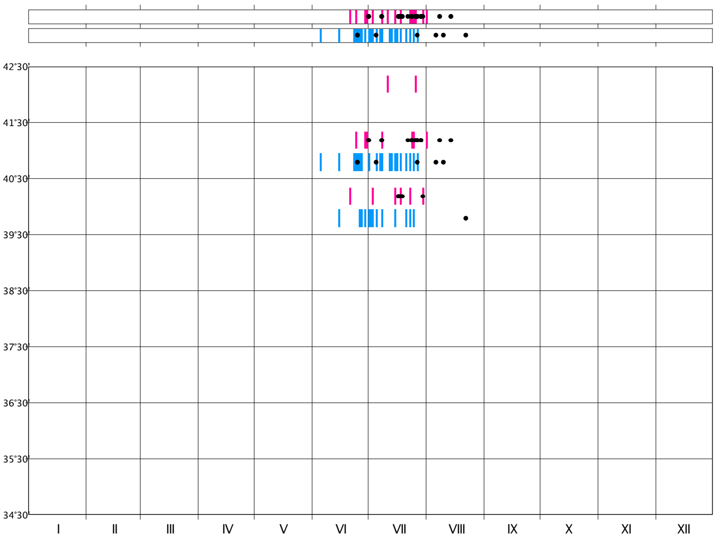


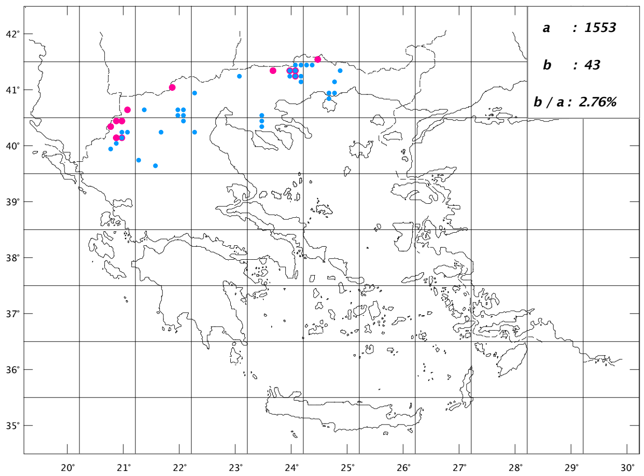


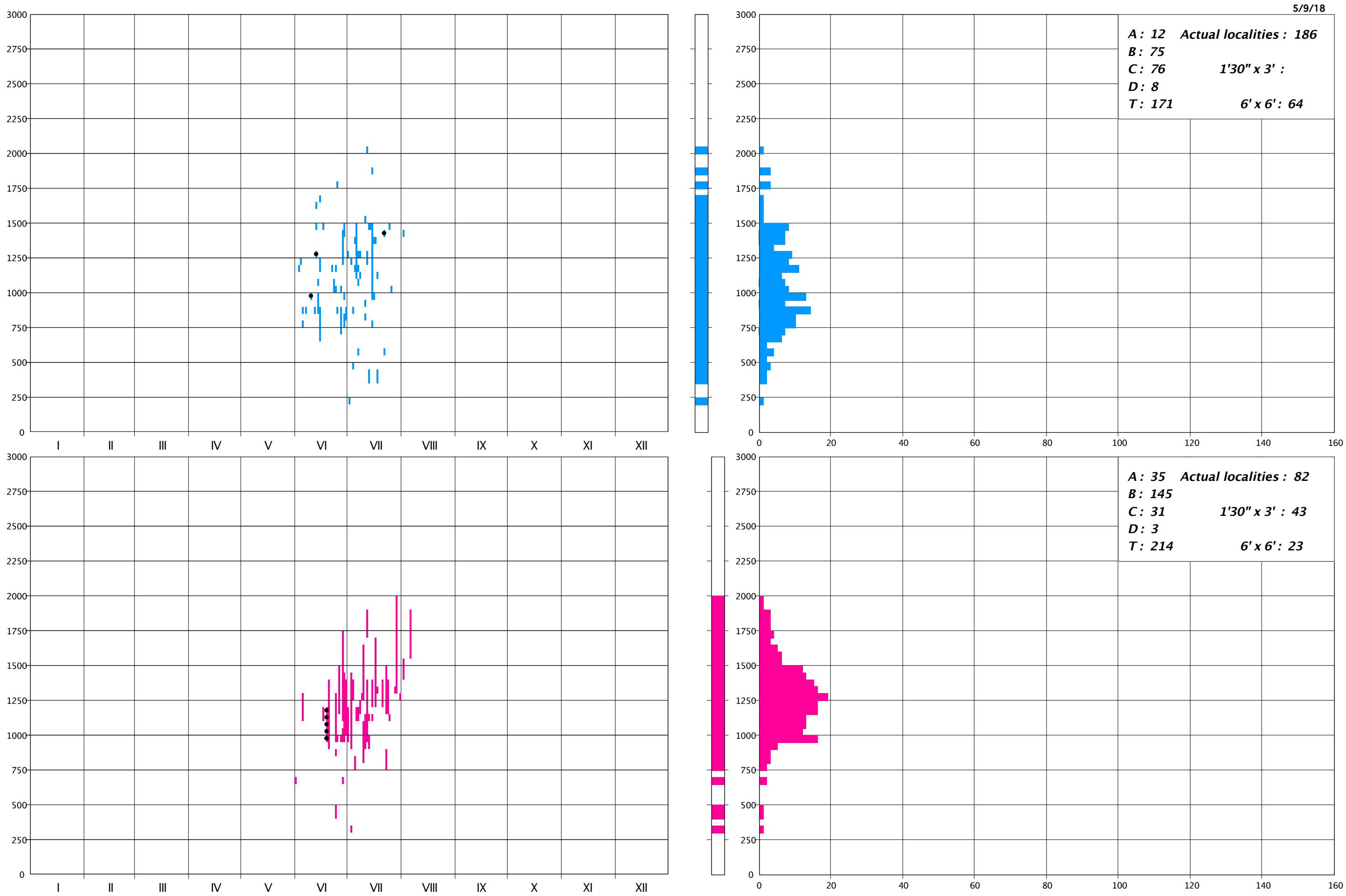


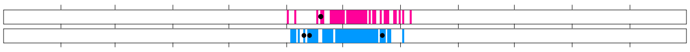


LYCAENIDAE *Maculinea rebeli*

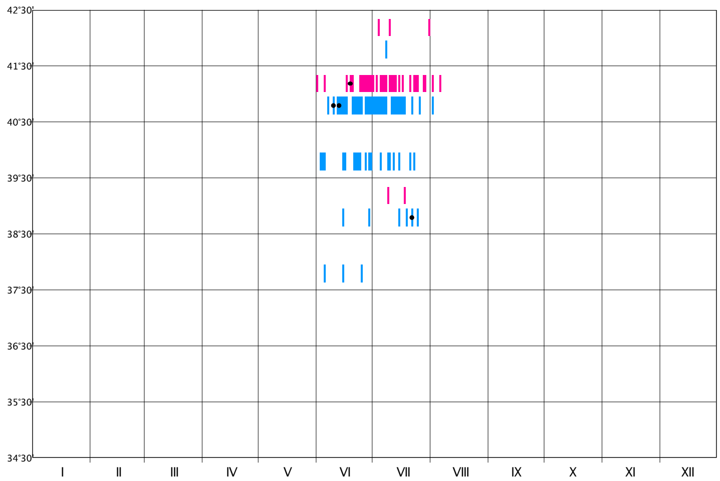


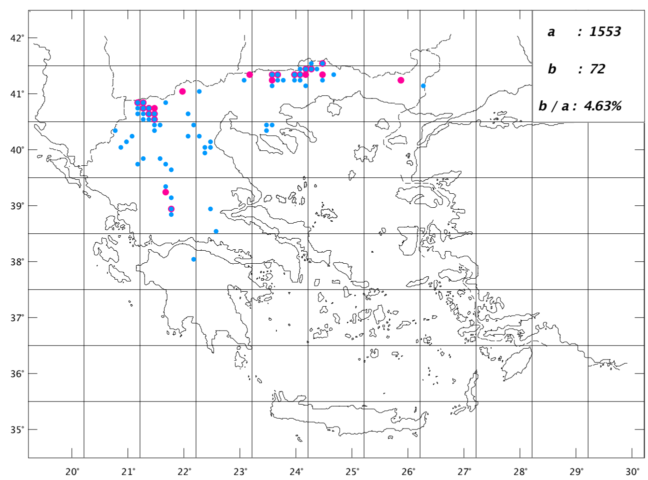




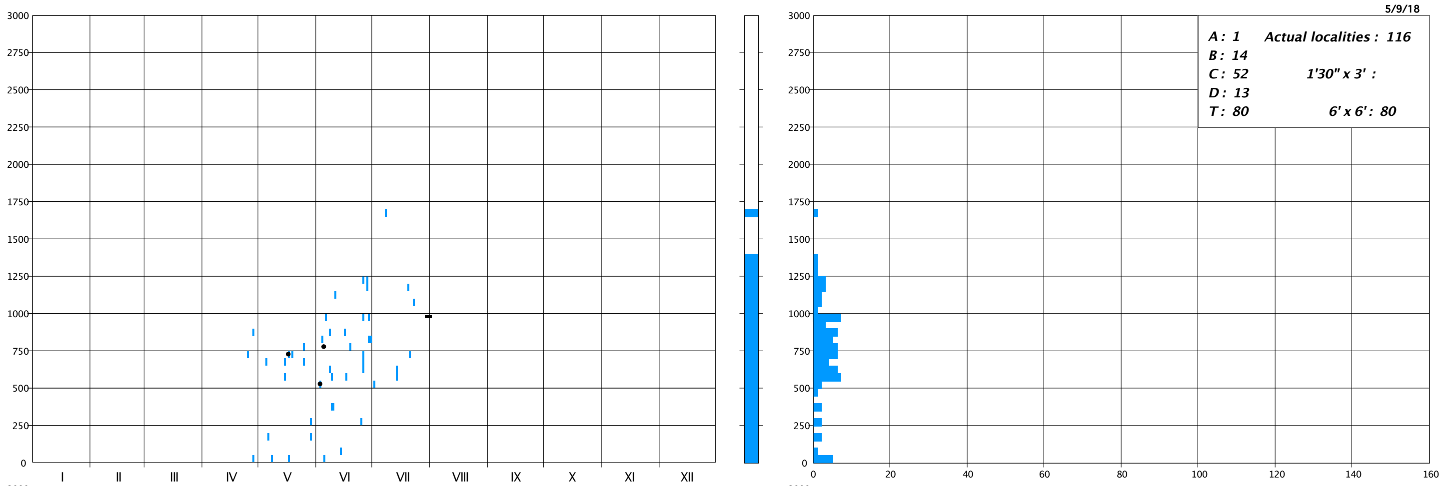


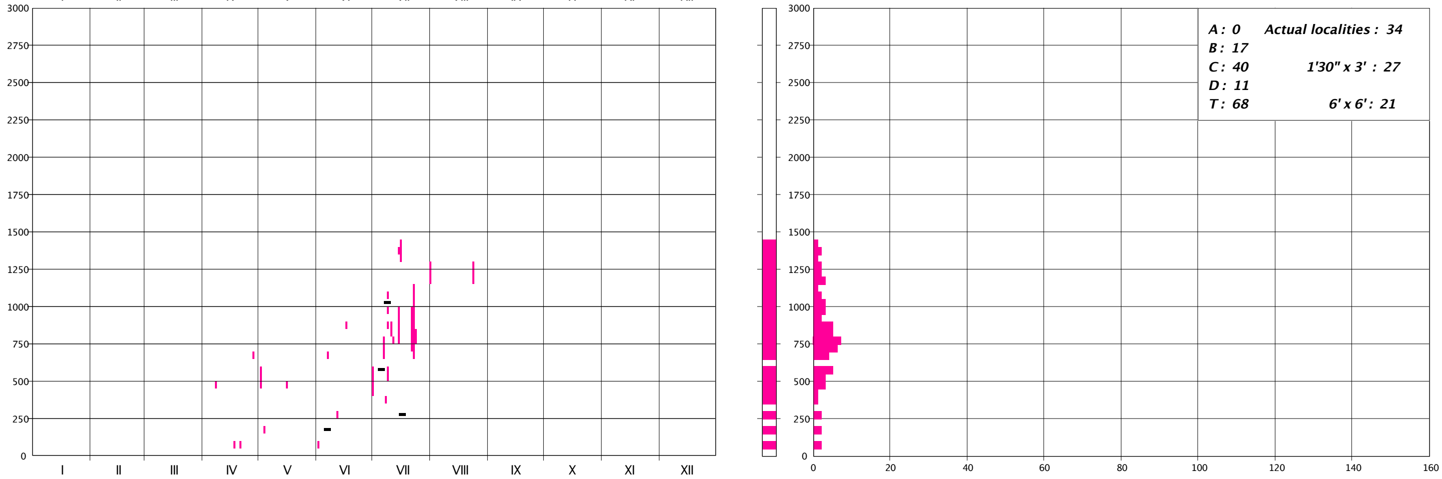
LYCAENIDAE *Maculinea arion*

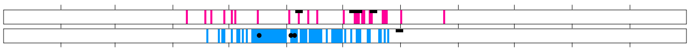




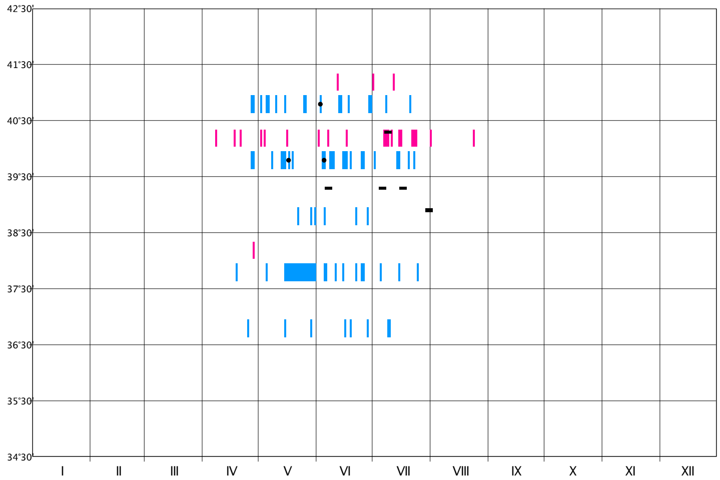
5/9/18

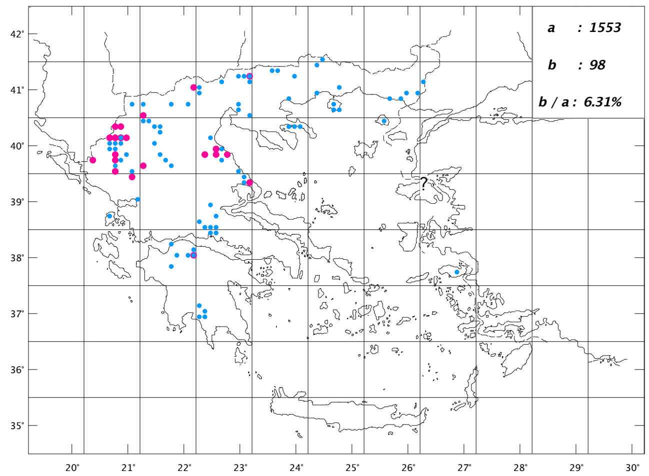


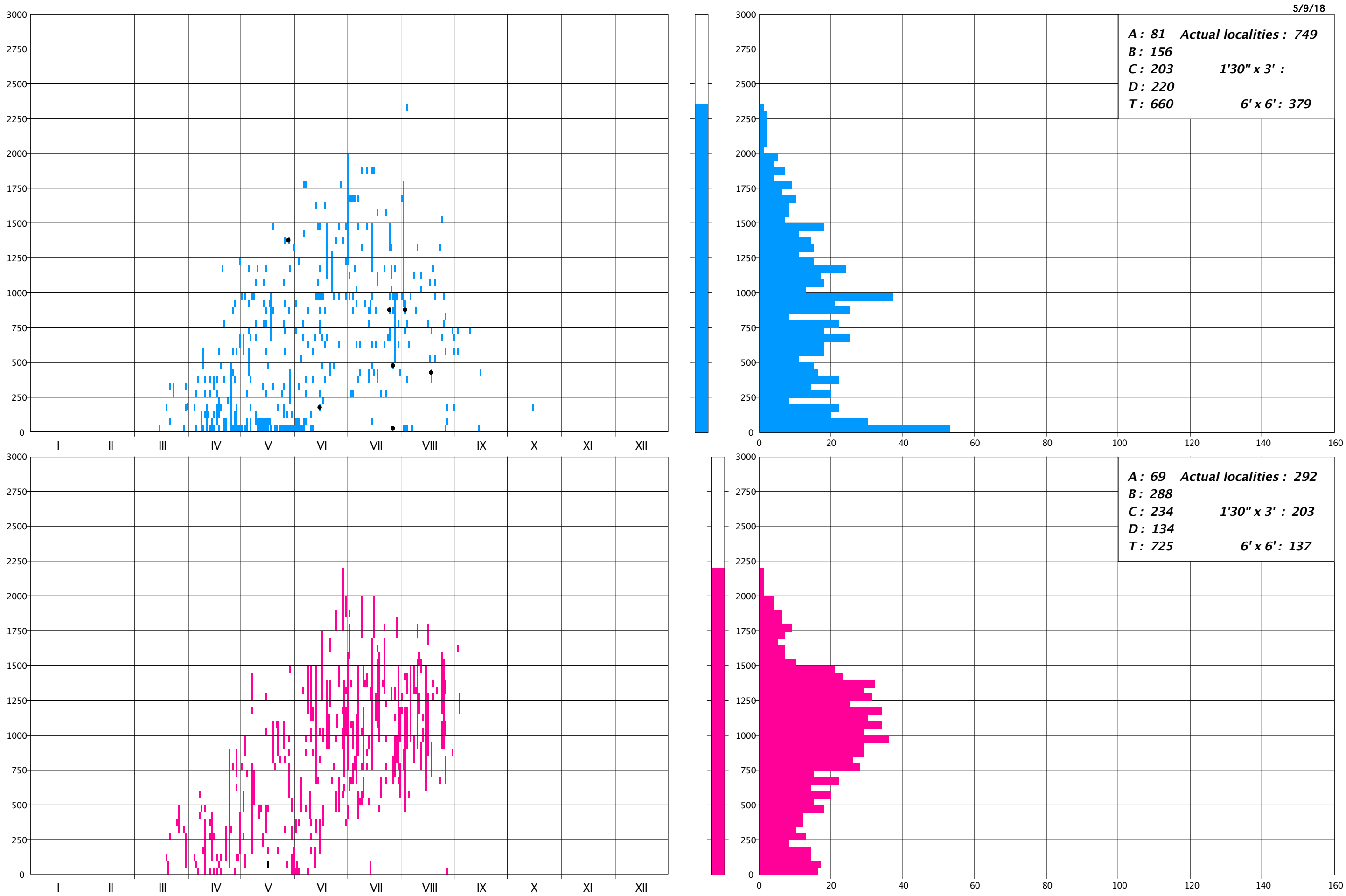


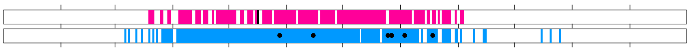


LYCAENIDAE *Iolana iolas*

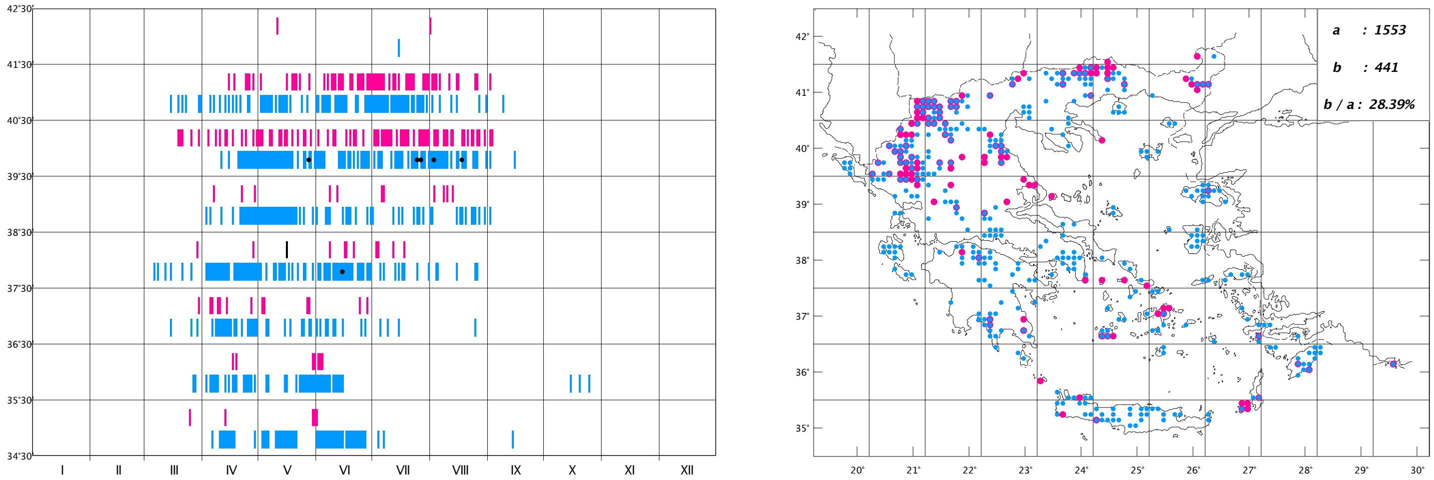


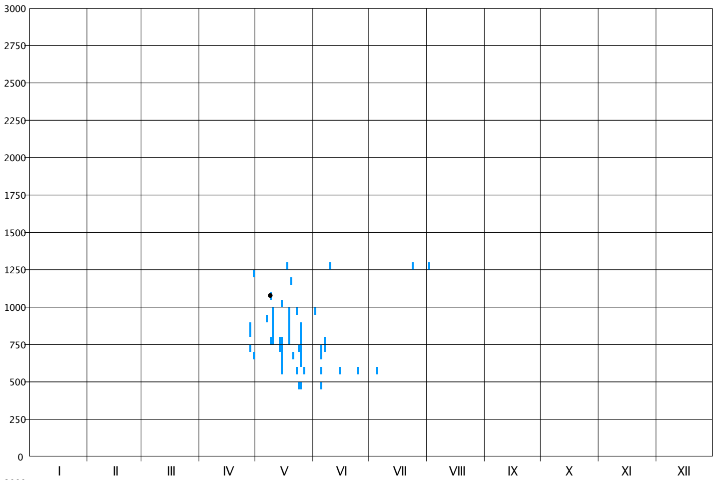


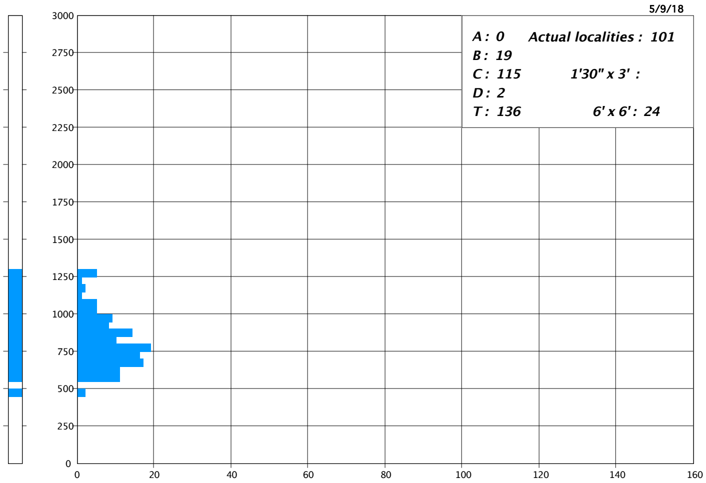


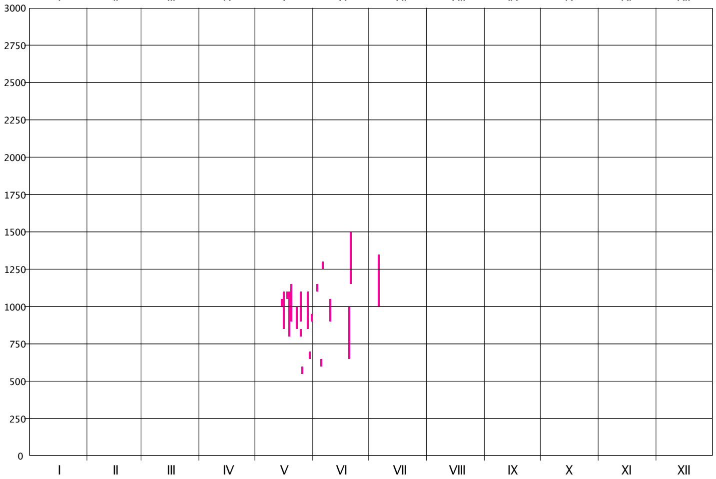


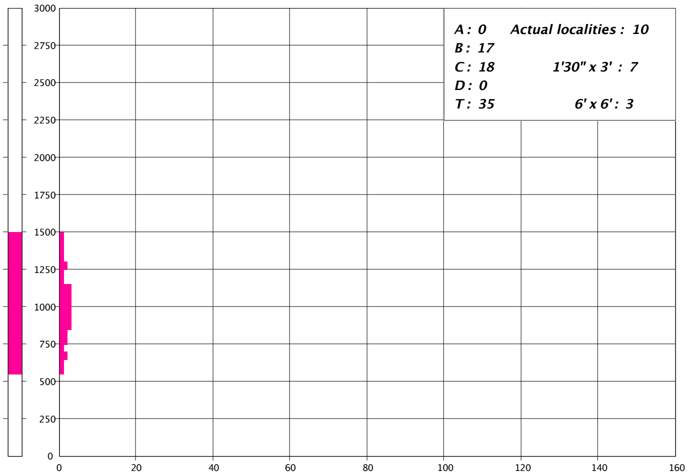
LYCAENIDAE *Pseudophilotes vicrama*

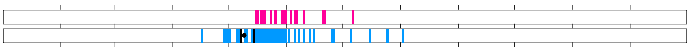




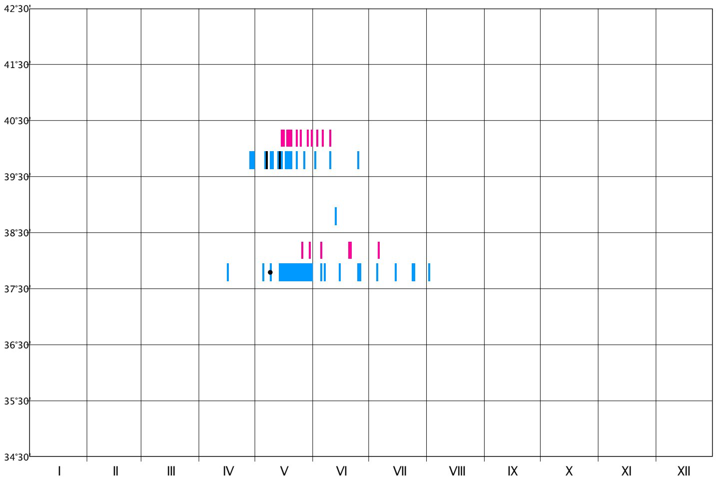


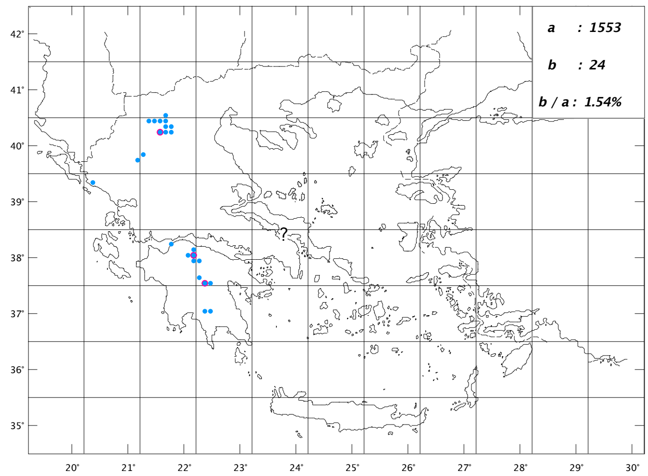






LYCAENIDAE *Pseudophilotes bavius*





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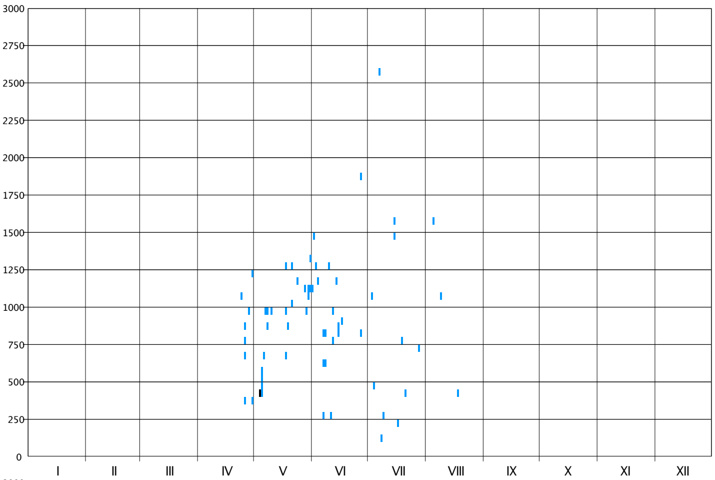
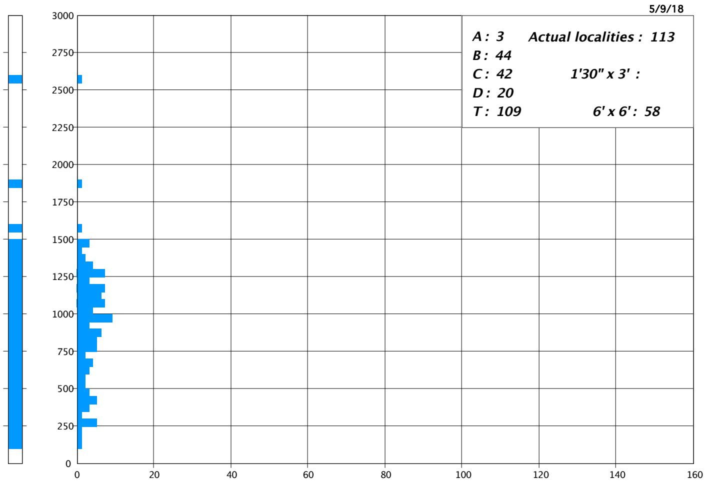
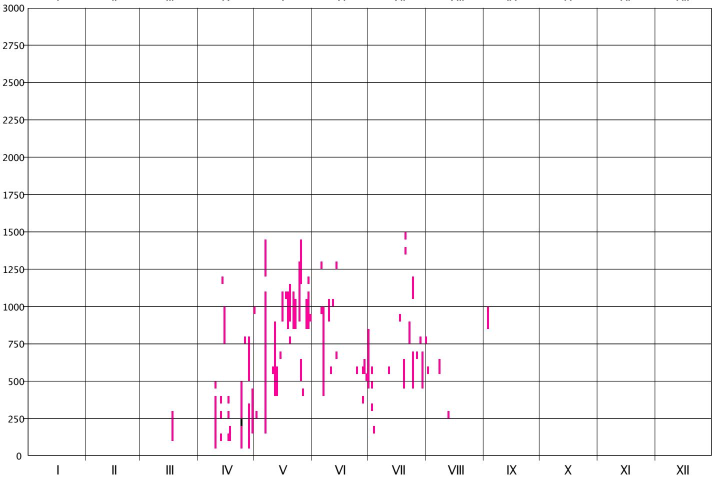
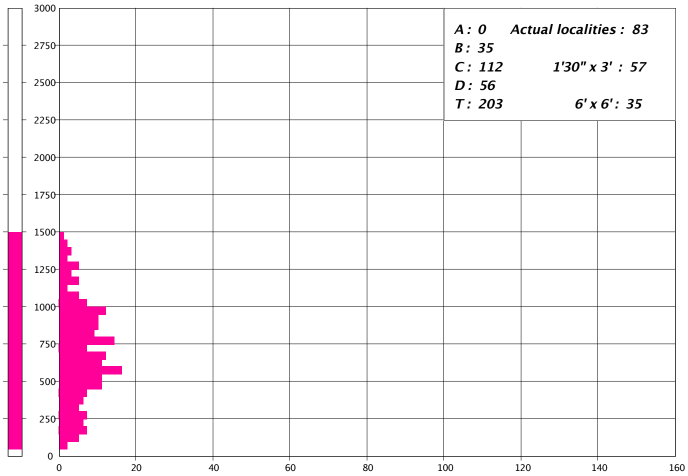
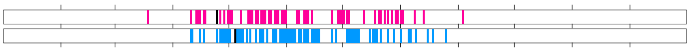


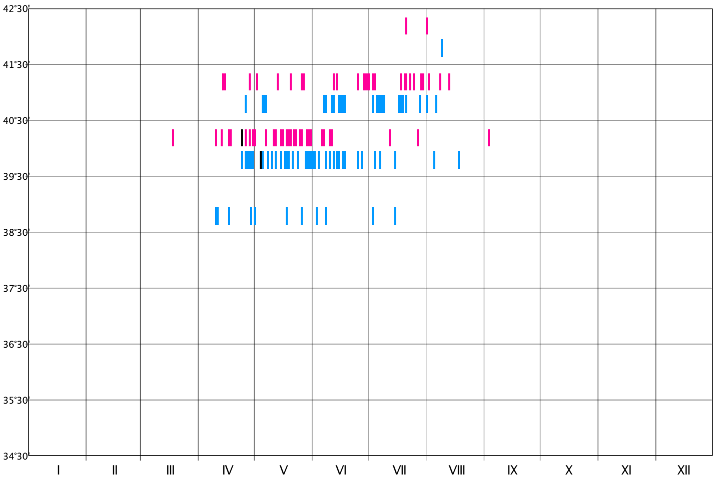


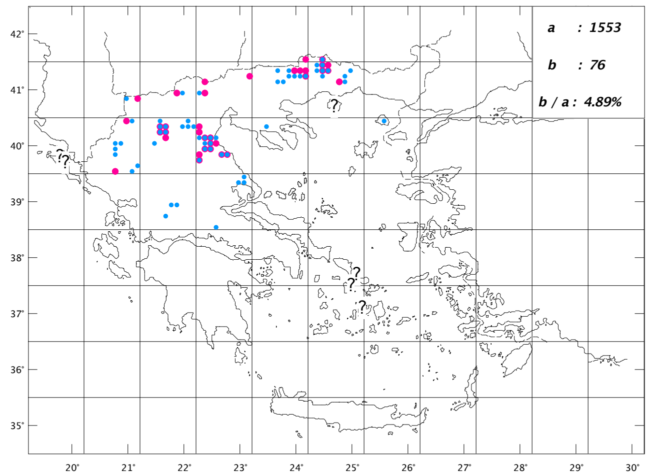


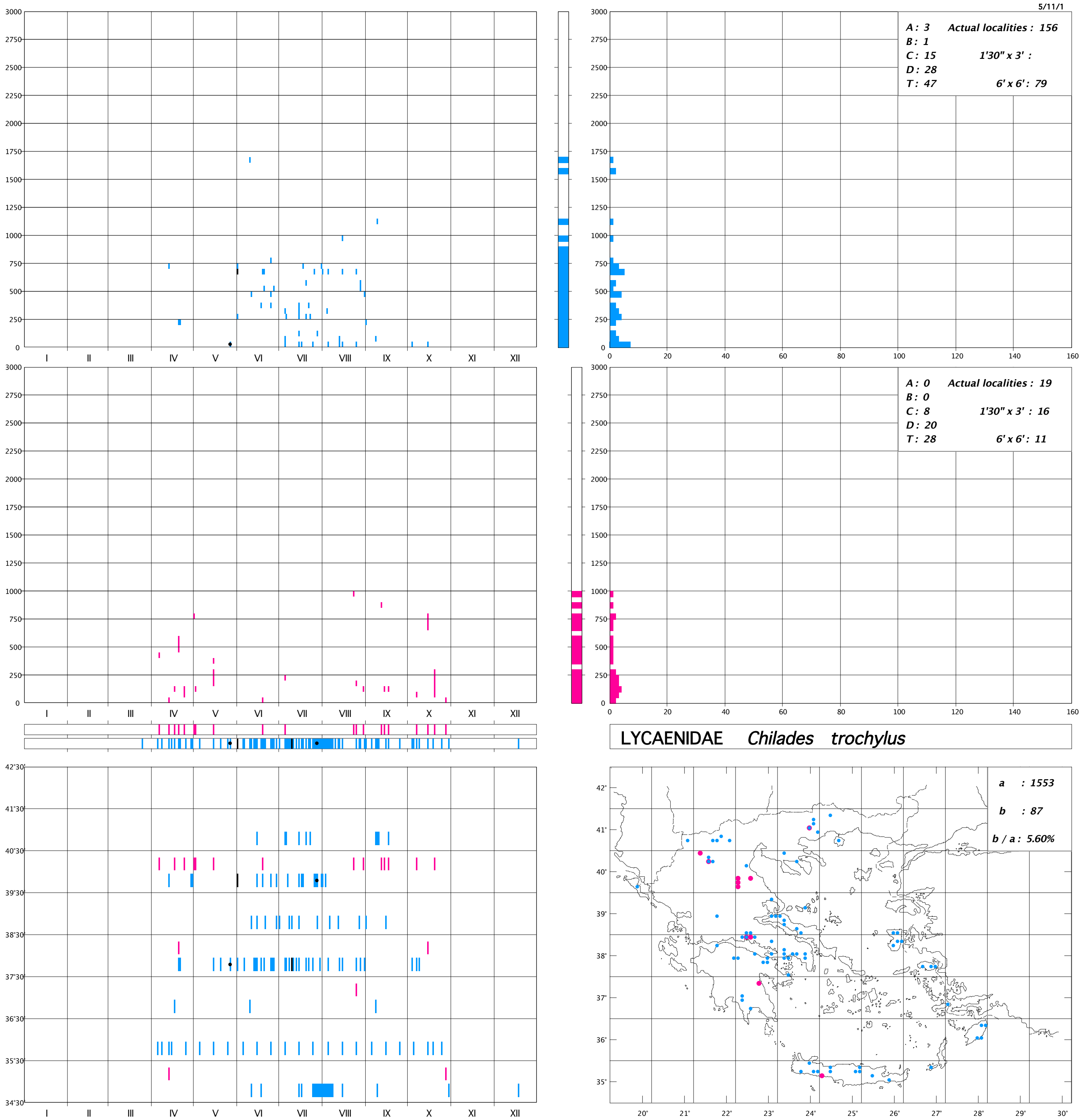


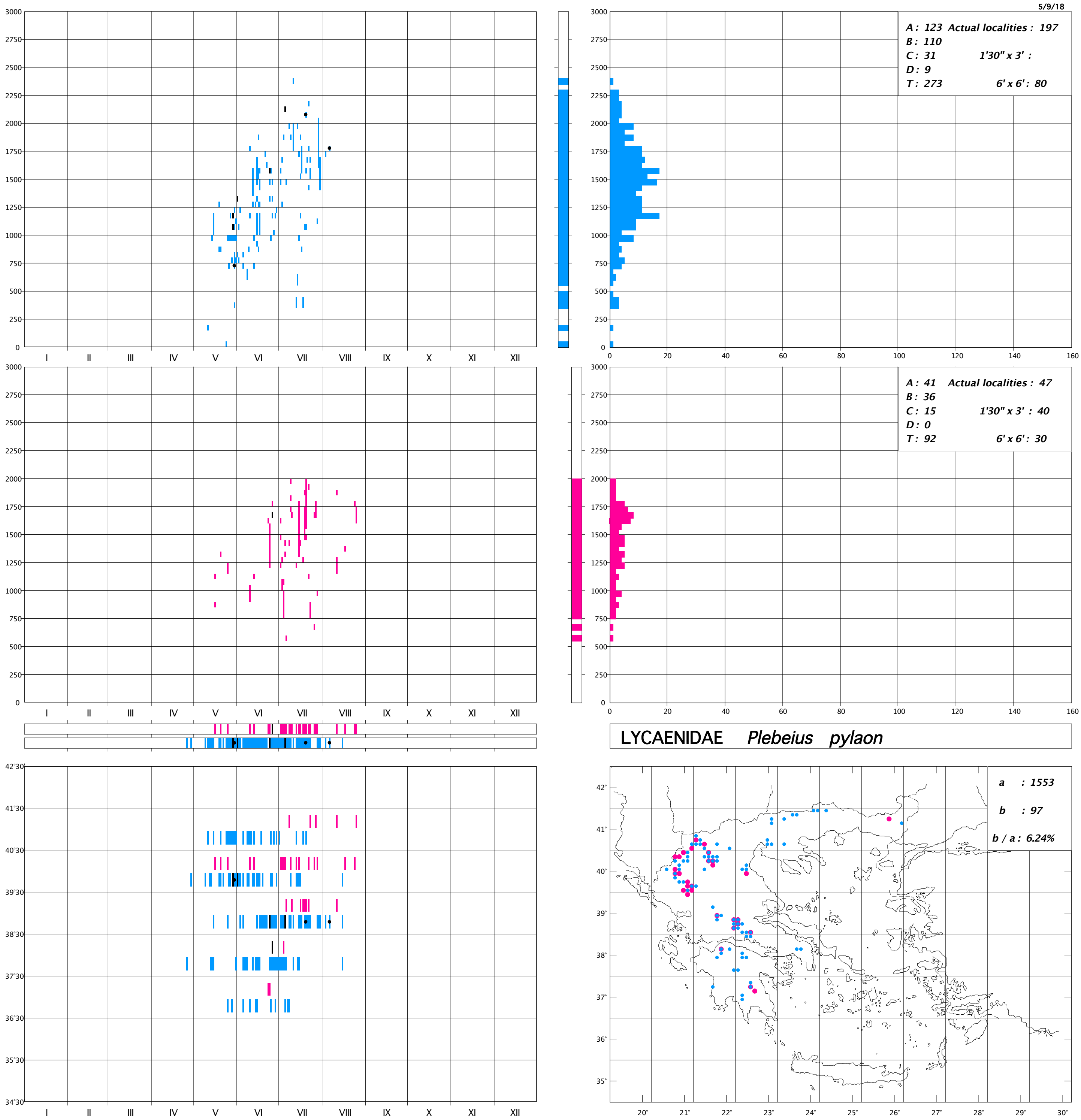


LYCAENIDAE *Scolitantides orion*

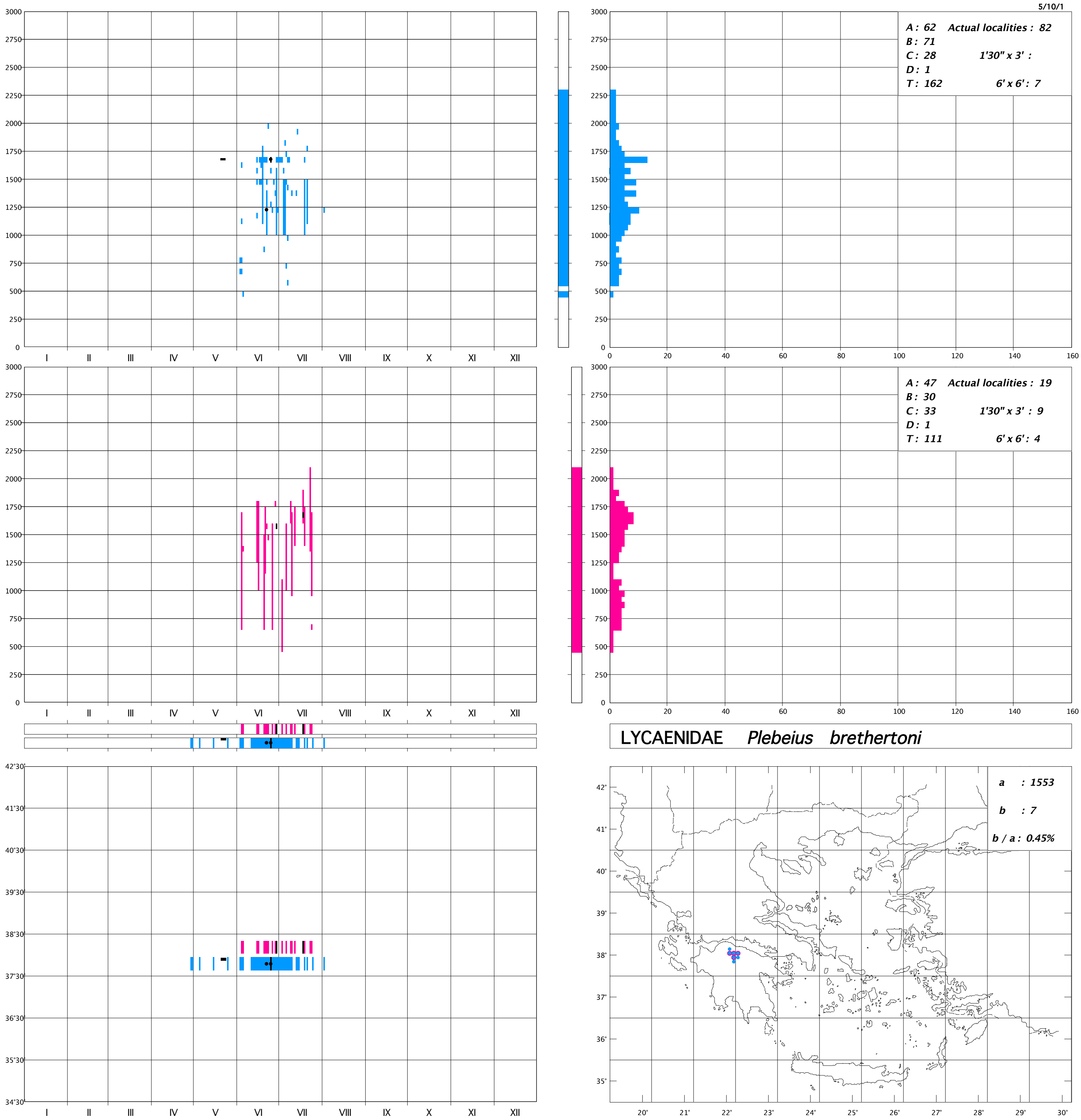





5/11/1
A : 3 Actual localities : 156
B : 1
C : 15 1'30" x 3' :
D : 28
T : 47 6' x 6' : 79
A : 0 Actual localities : 19
B : 0
C : 8 1'30" x 3' : 16
D : 20
T : 28 6' x 6' : 11
LYCAENIDAE Chilades trochylus
a : 1553
b : 87
b / a : 5.60%

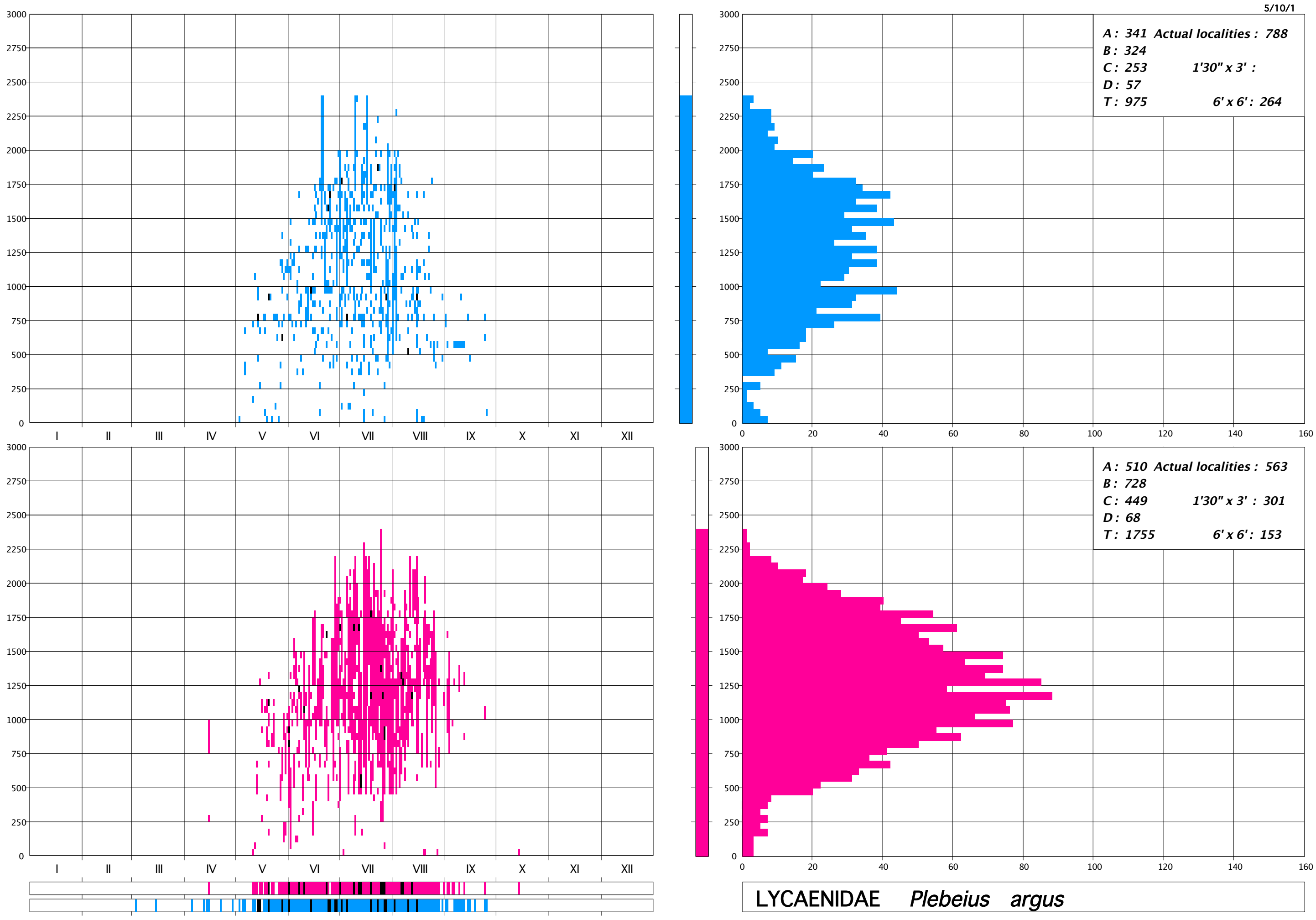


Plebeius pylaon and Plebeius brethertoni are synonymized by some authors
Plebeius pylaon και *Plebeius brethertoni* θεωρούνται συνώνυμα από ωρισμένους συγγραφείς

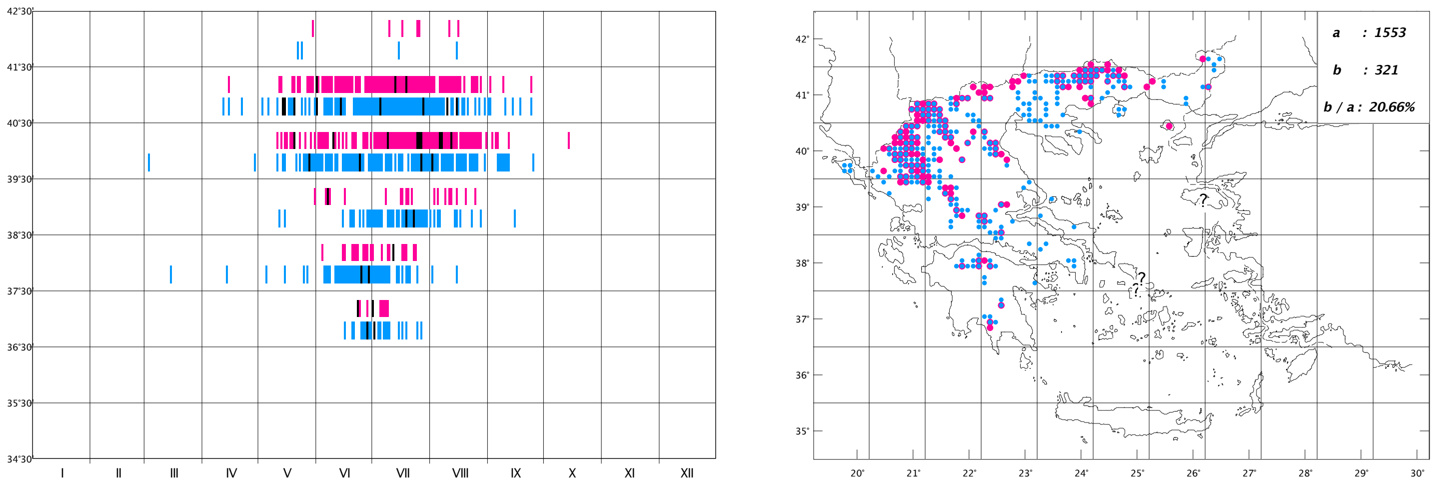


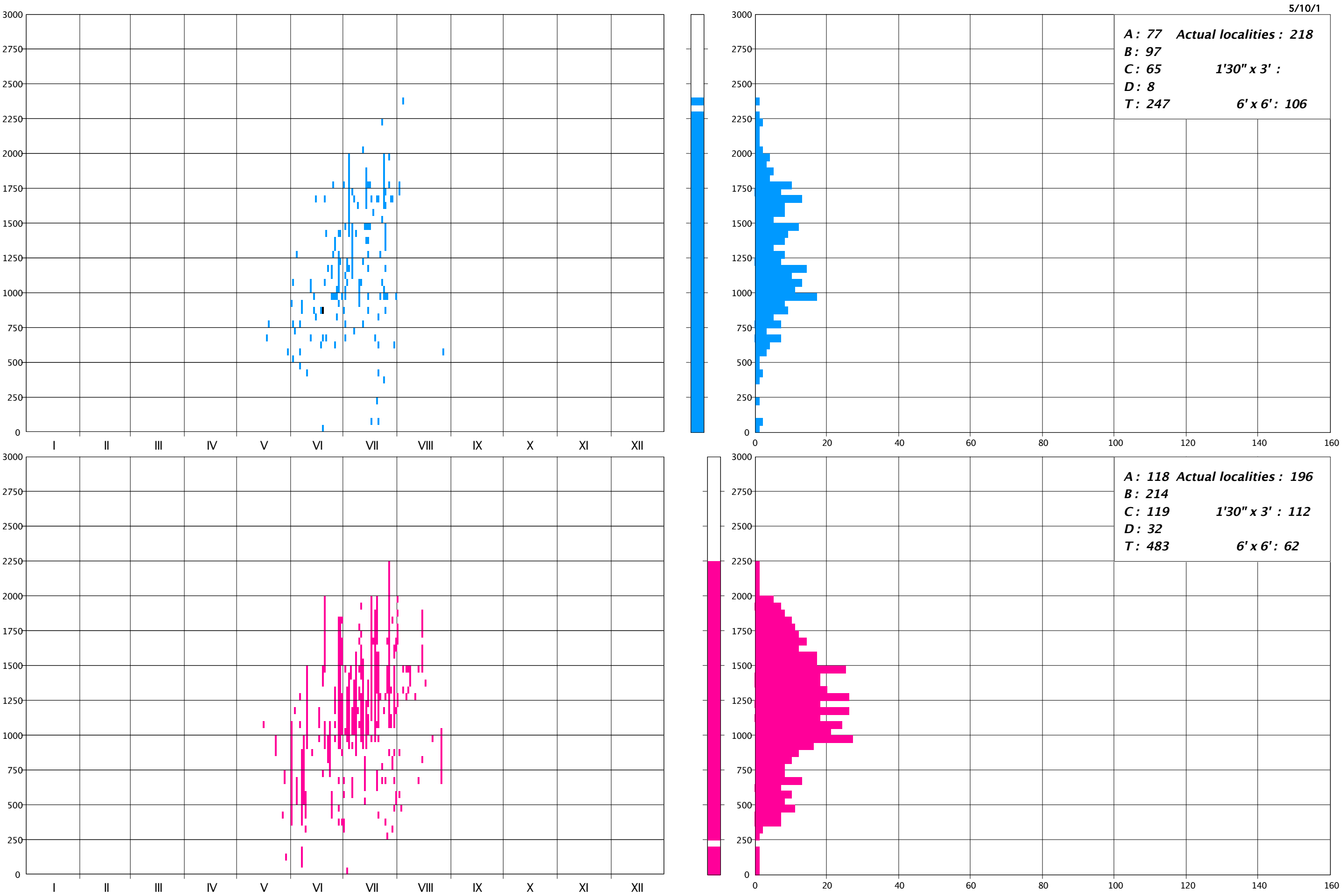
Plebeius pylaon and *Plebeius brethertoni* are synonymized by some authors

Plebeius pylaon και *Plebeius brethertoni* θεωρούνται συνώνυμα από ωρισμένους συγγραφείς

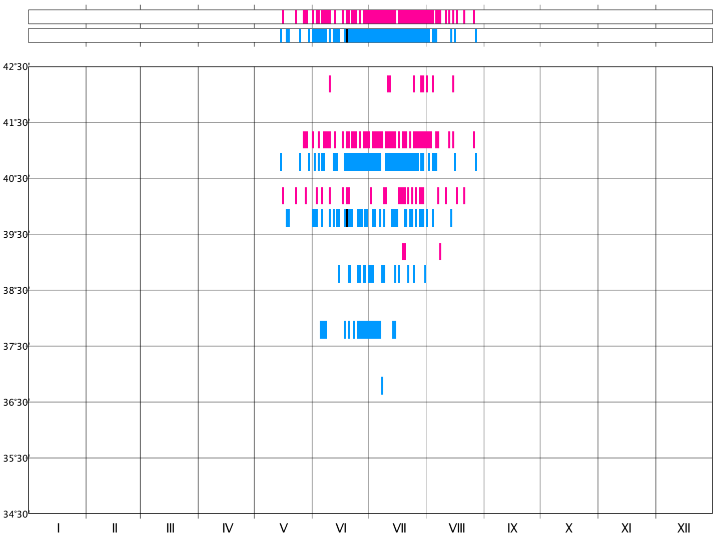


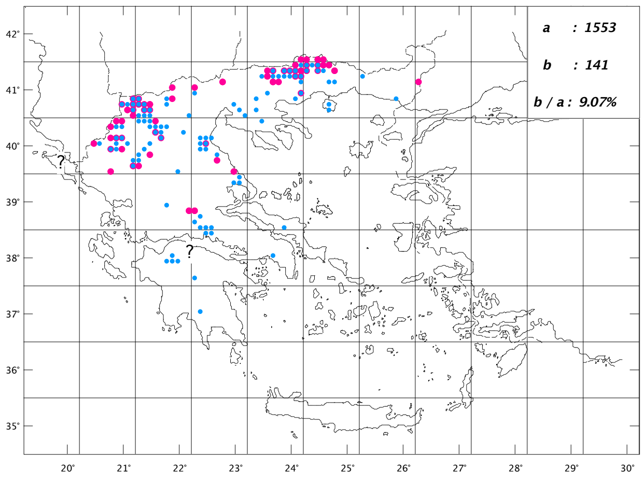
LYCAENIDAE *Plebeius argus*

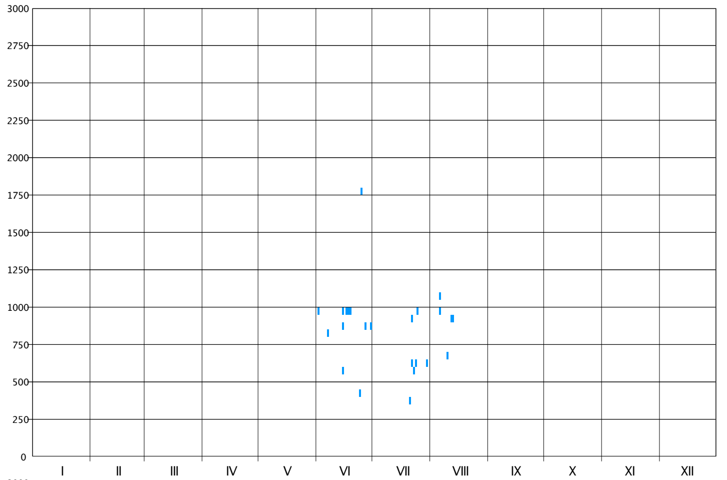


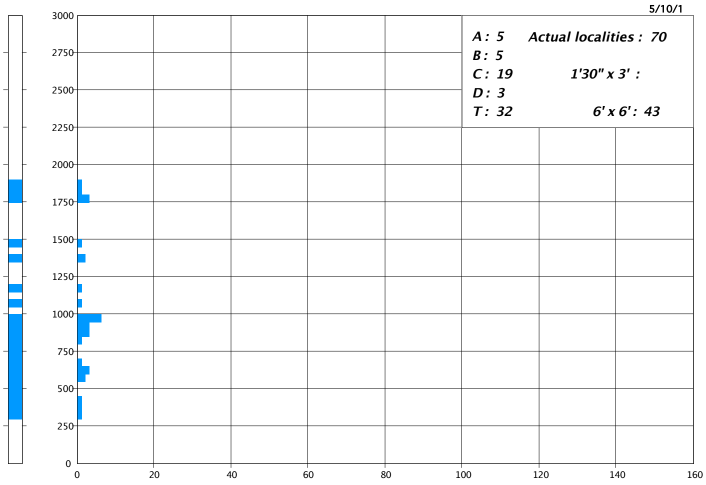


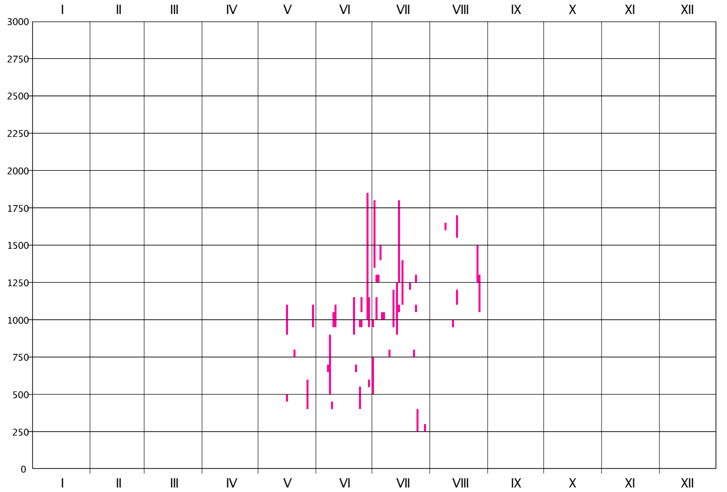
LYCAENIDAE *Plebeius idas*

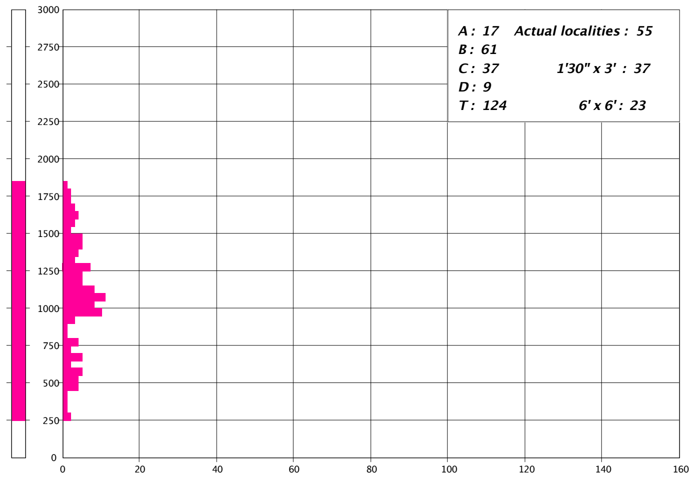


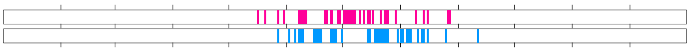












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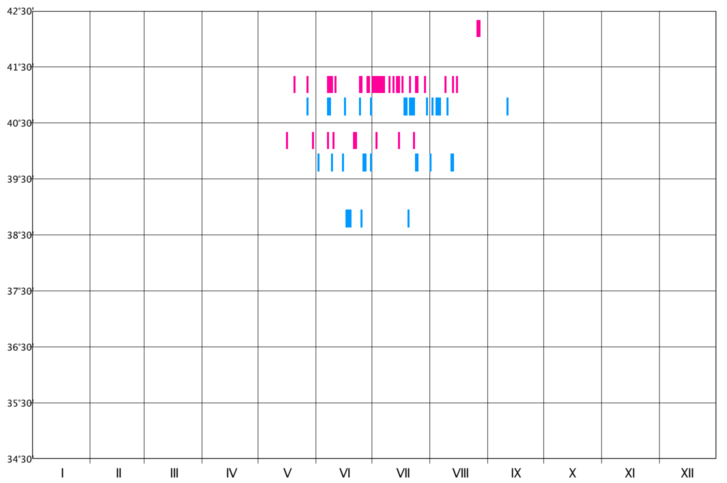
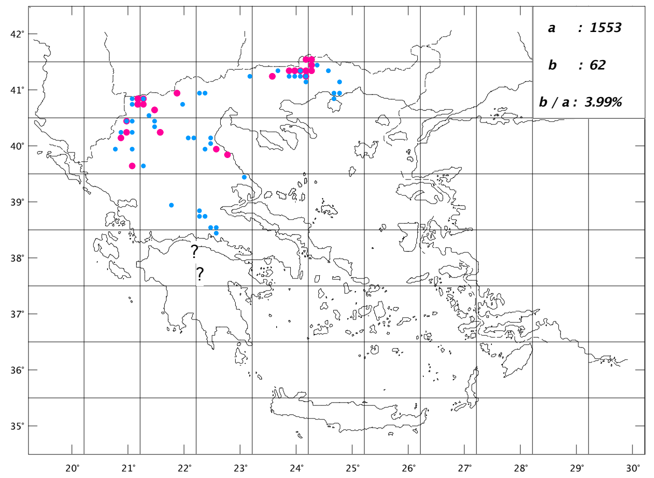
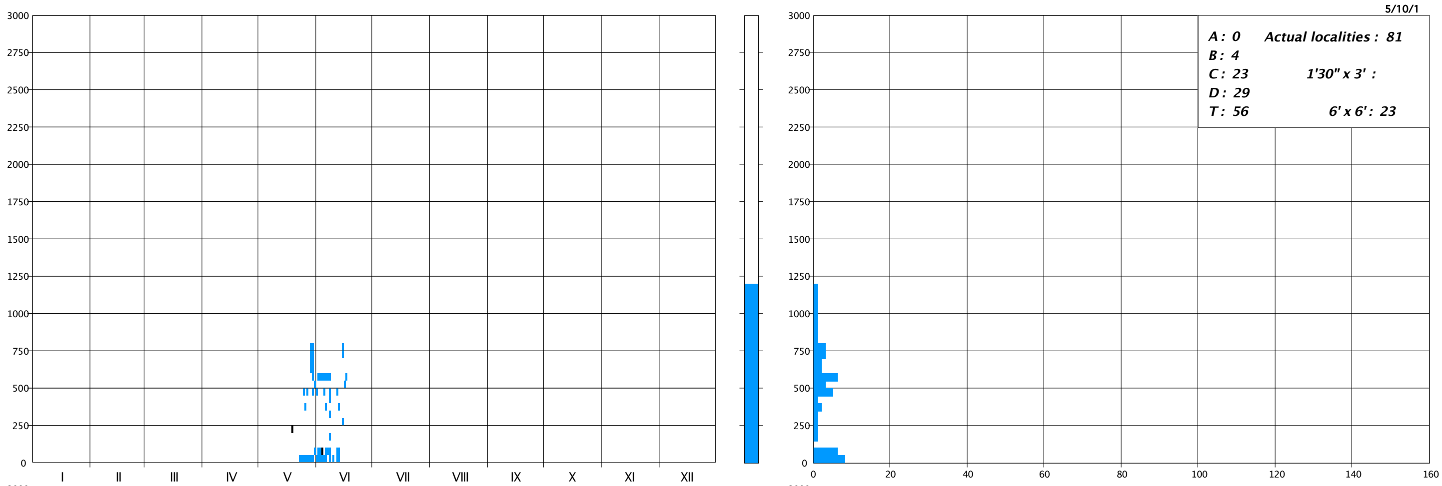
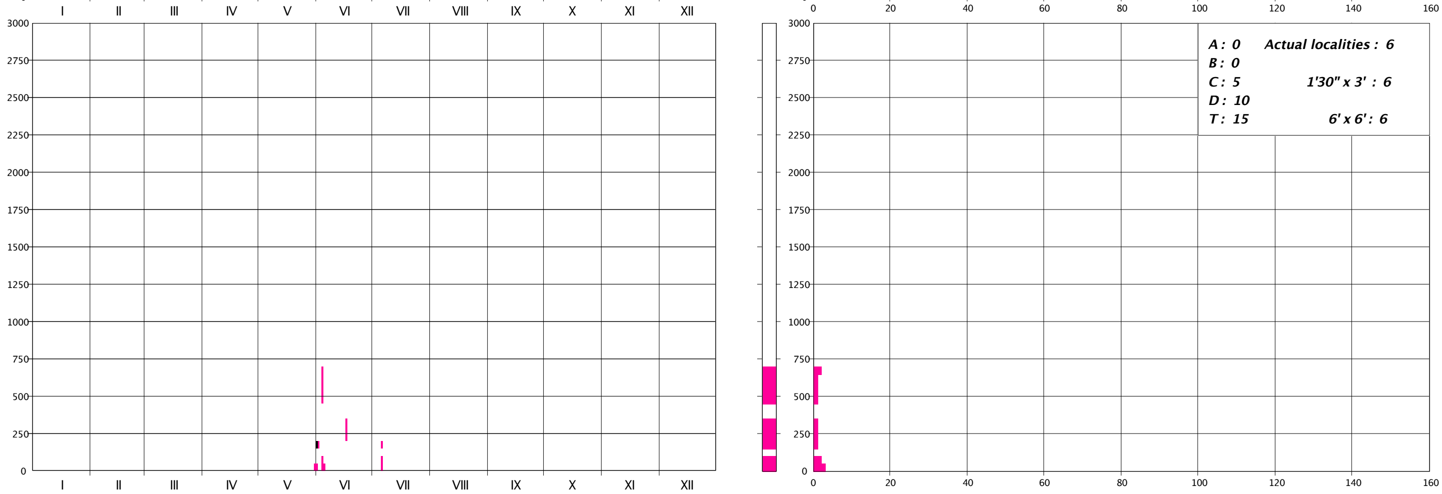
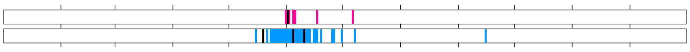


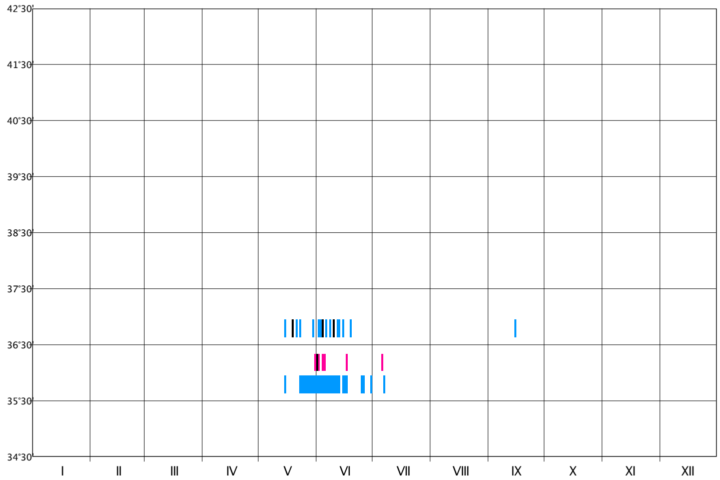


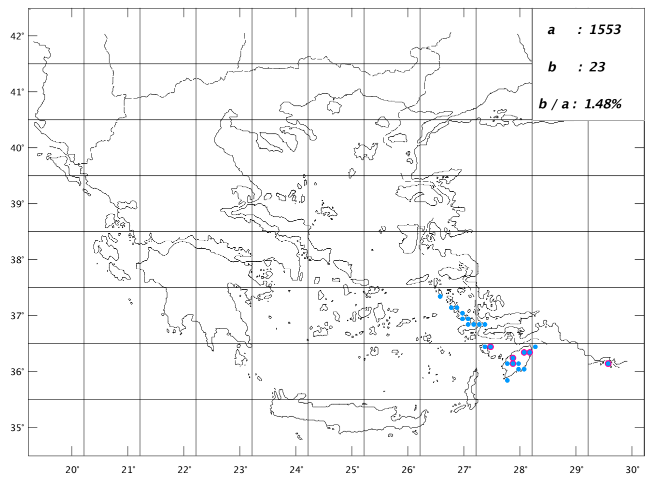


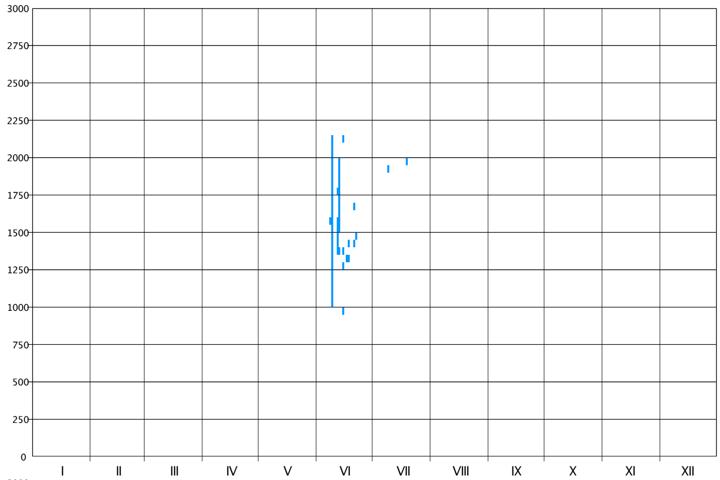


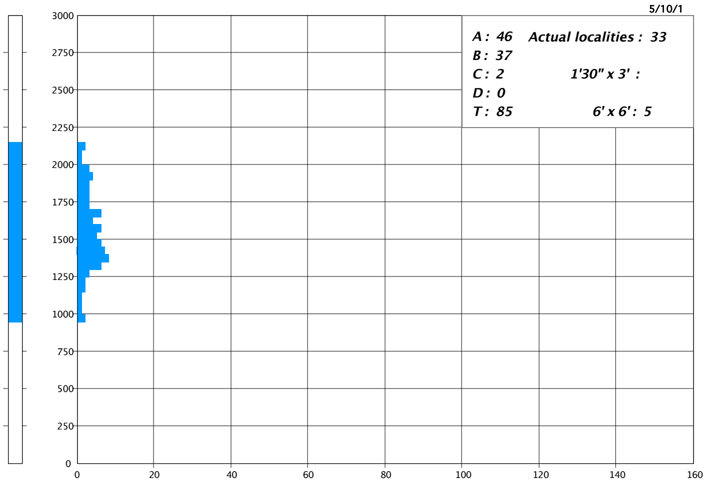


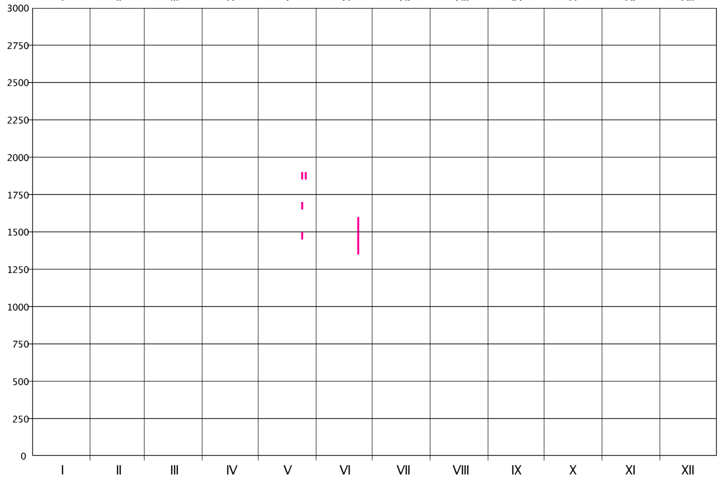
LYCAENIDAE *Plebeius loewii*

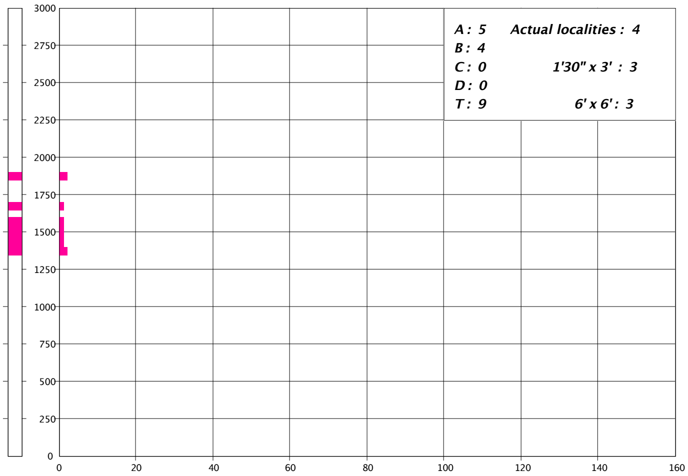


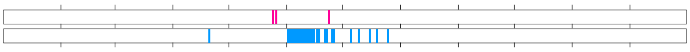




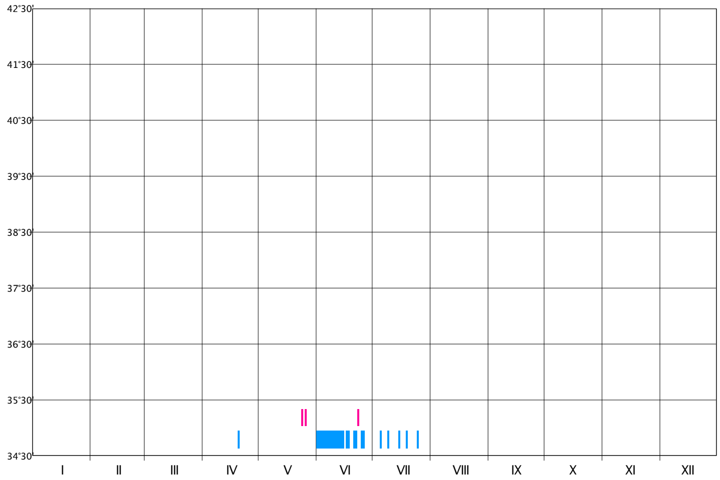


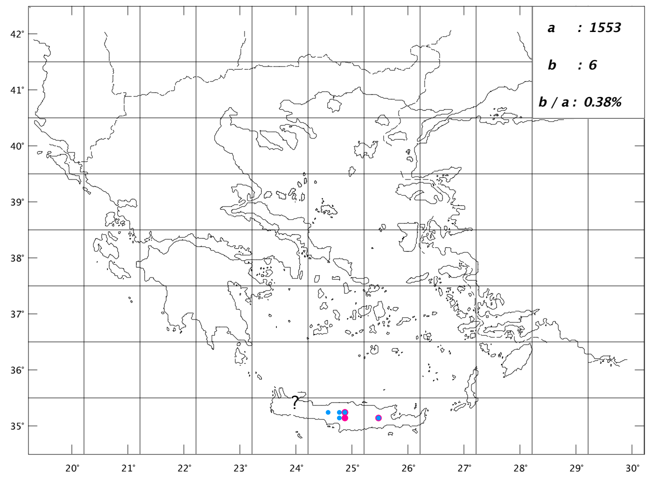


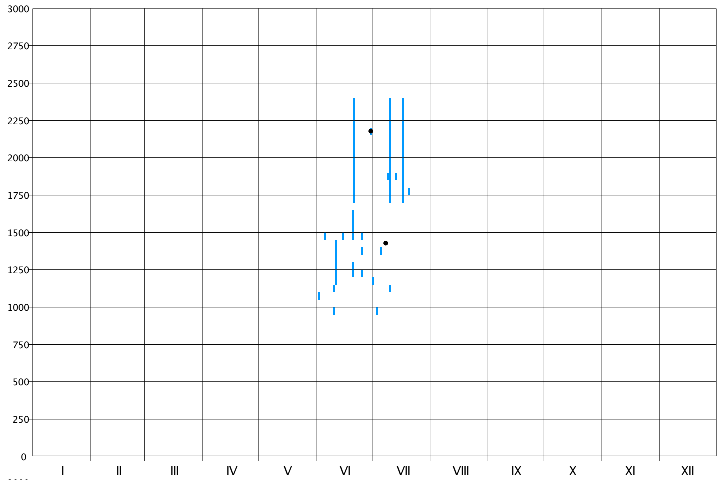


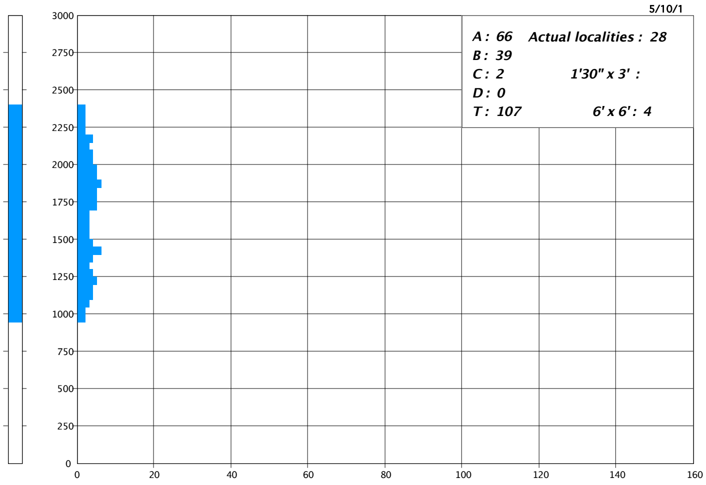


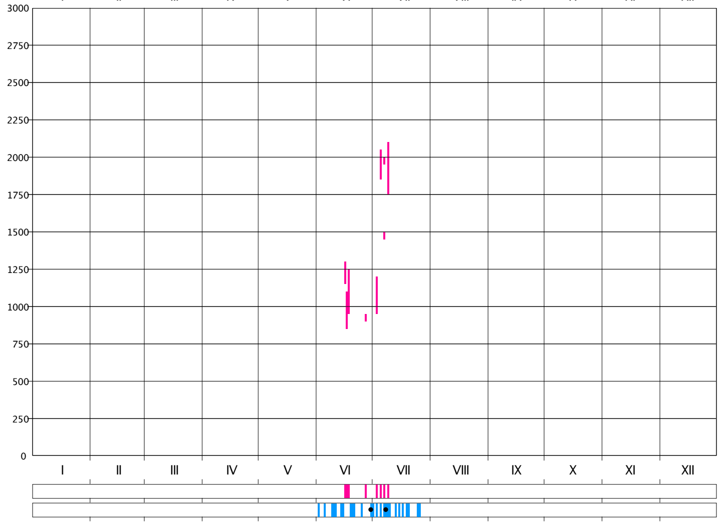
LYCAENIDAE *Plebeius psylorita*

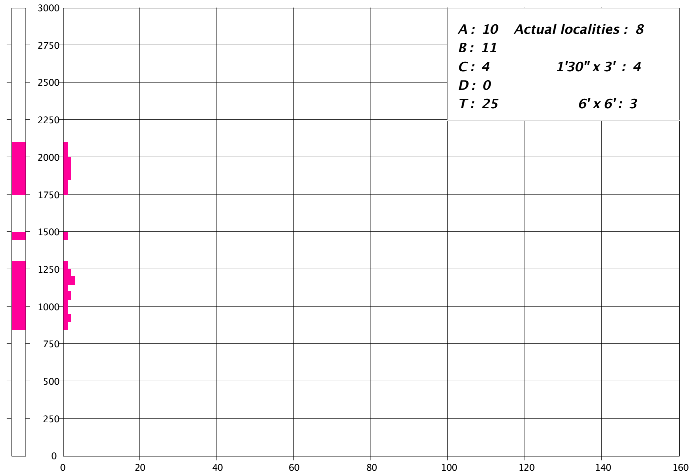




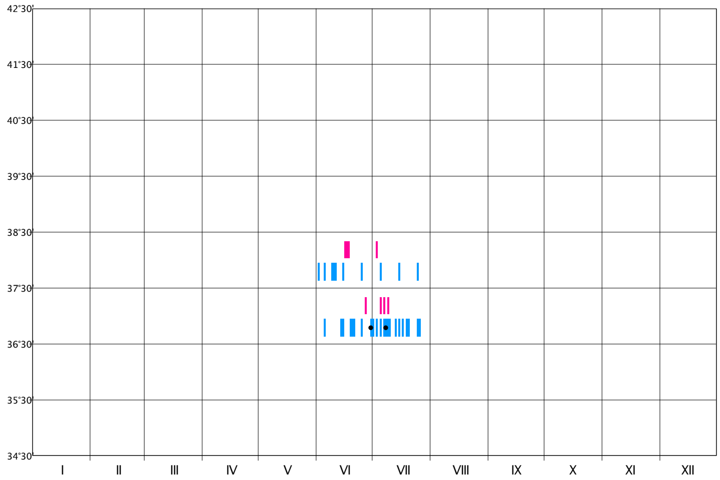


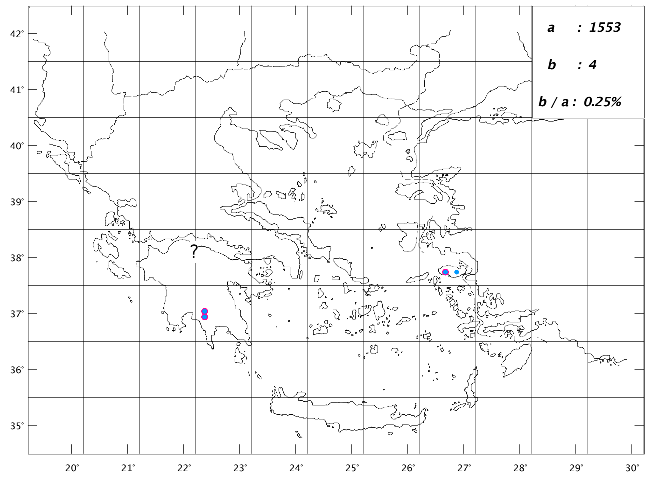


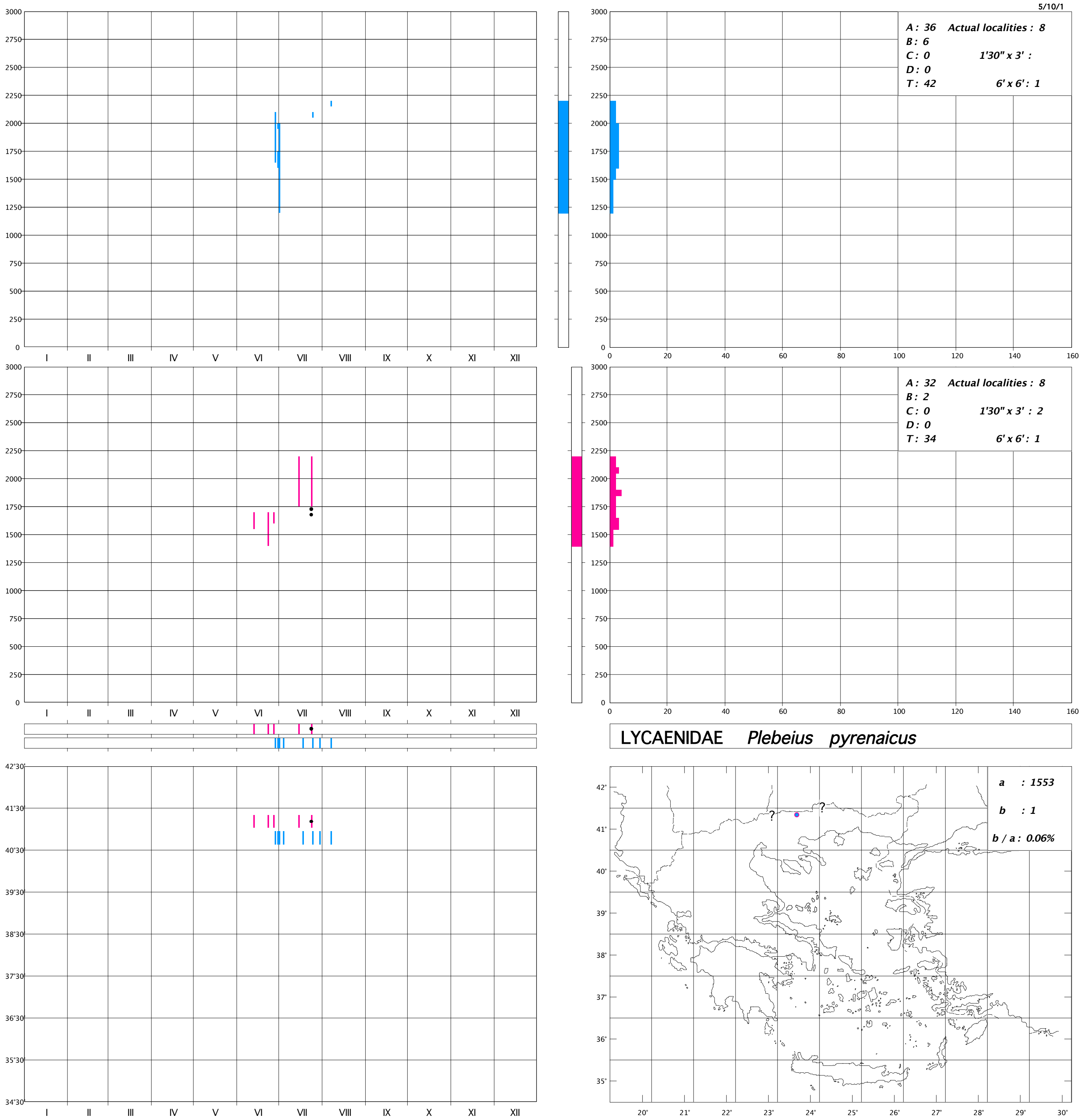




LYCAENIDAE *Plebeius eurypilus*

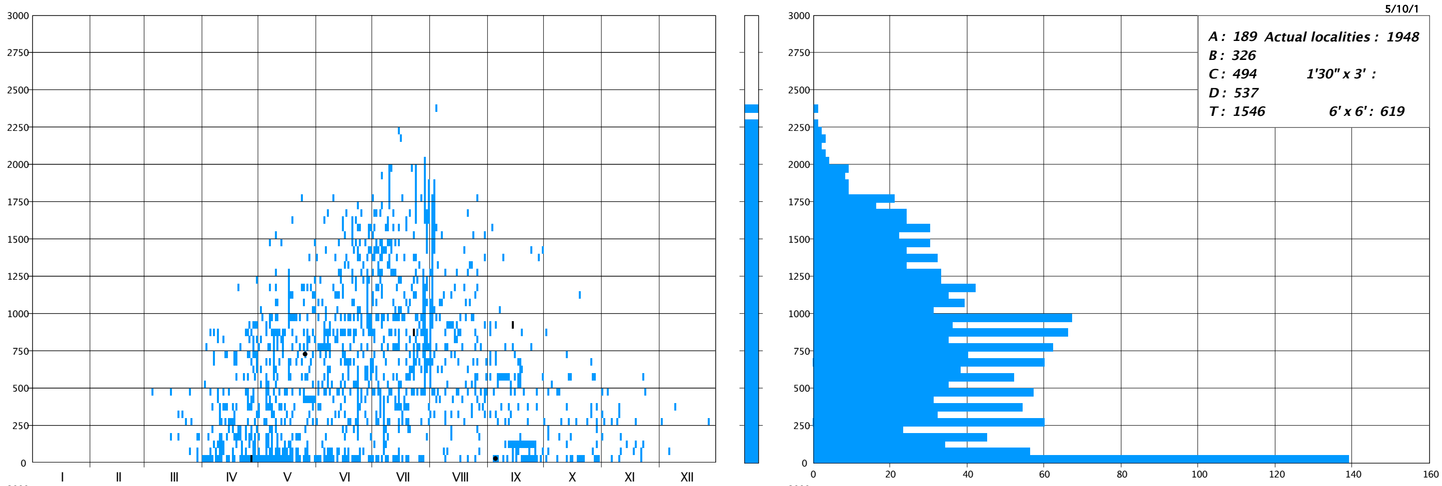


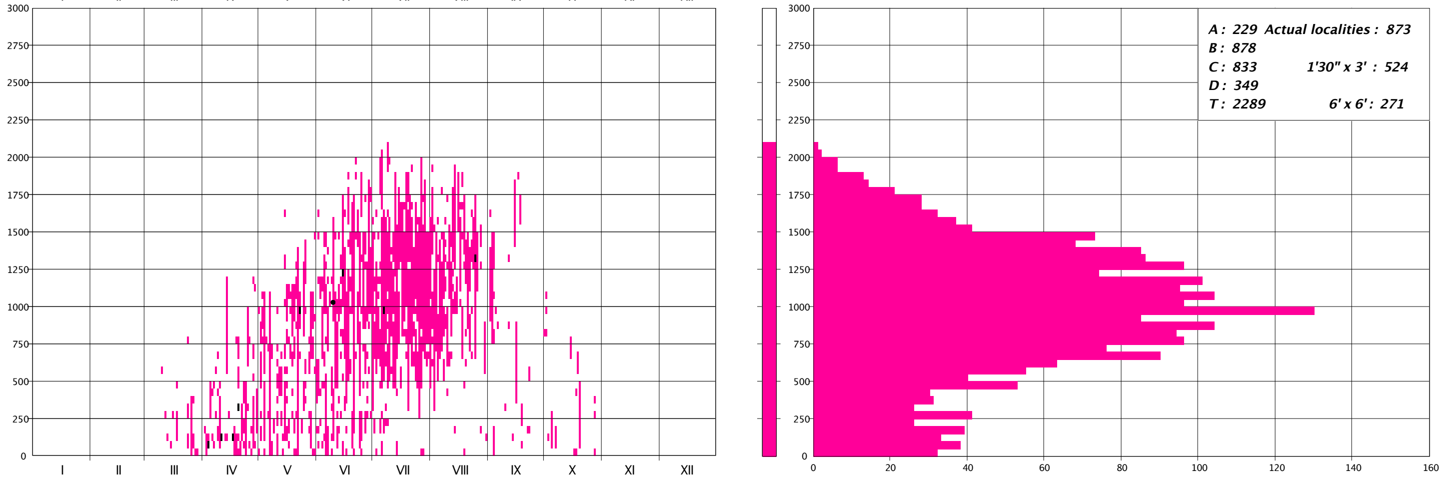


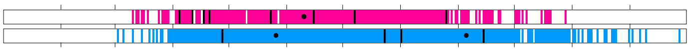


The name Plebeius dardanus is used by many authors

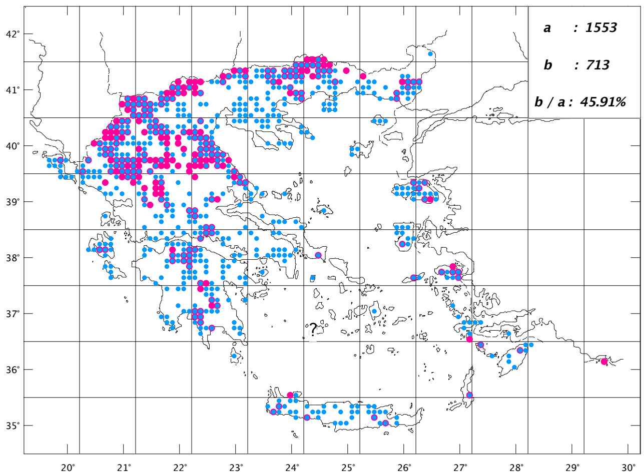
Το όνομα Plebeius dardanus χρησιμοποιείται από πολλούς συγγραφείς

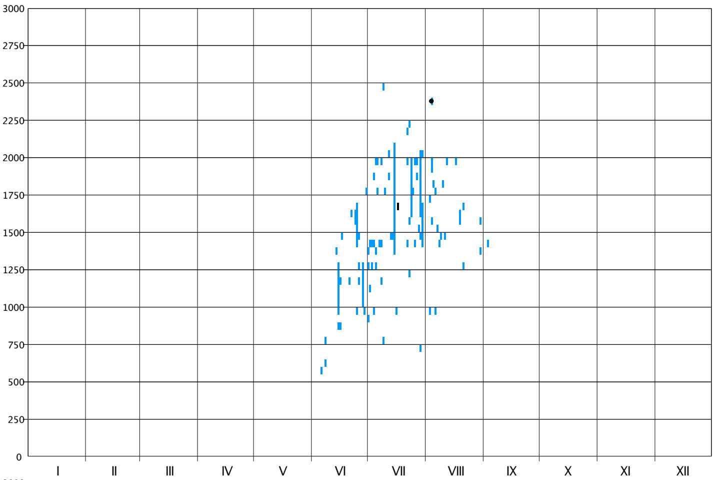


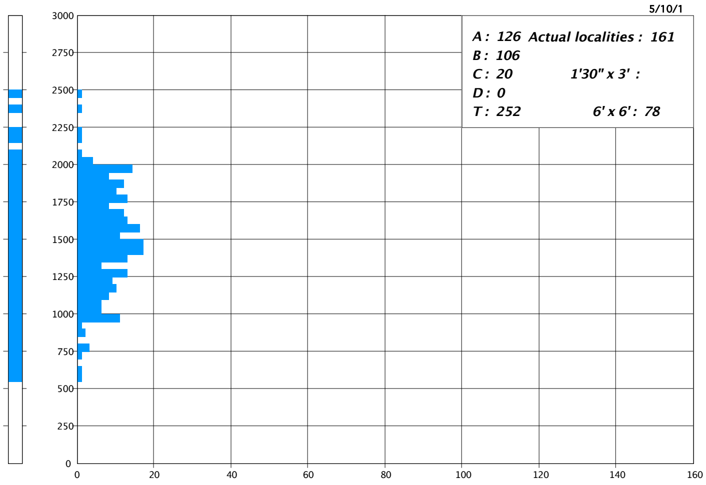


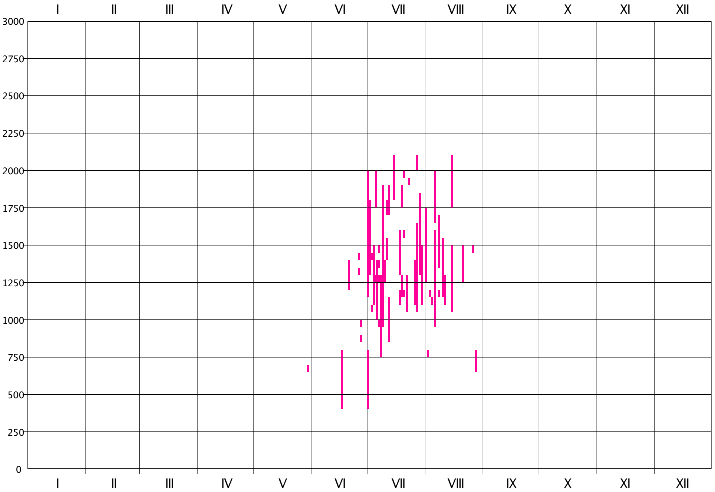


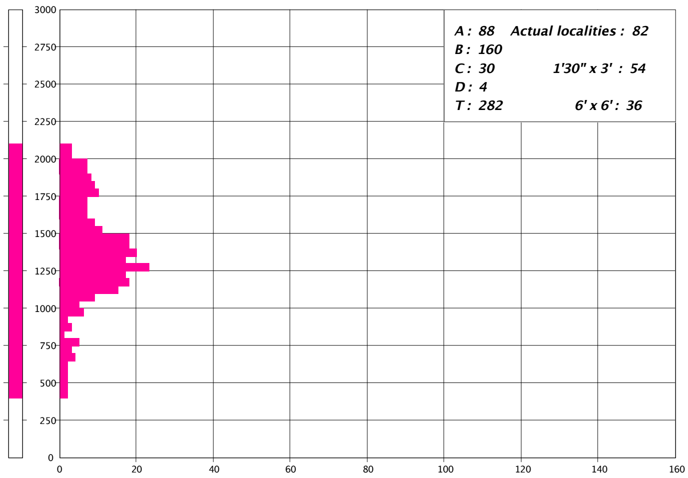
LYCAENIDAE *Aricia agestis*

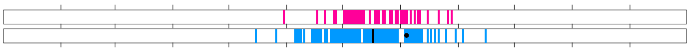




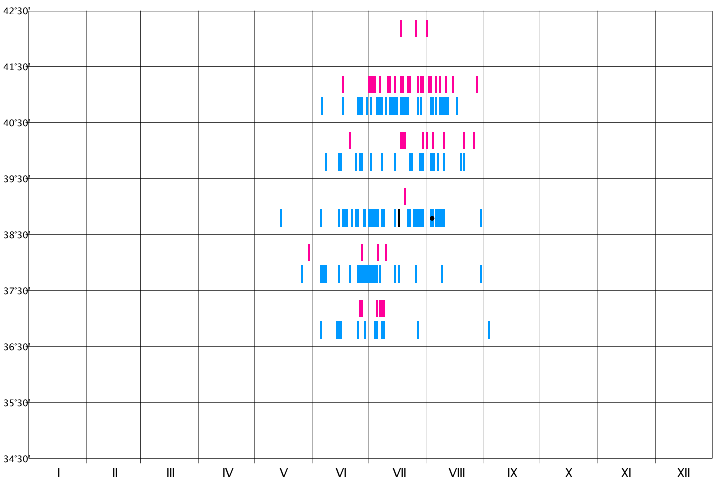


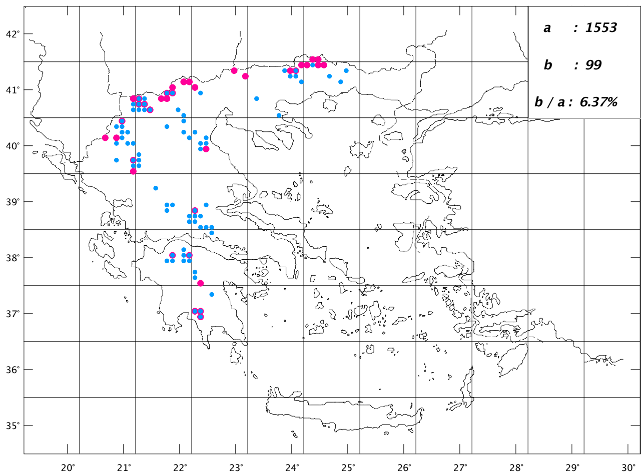


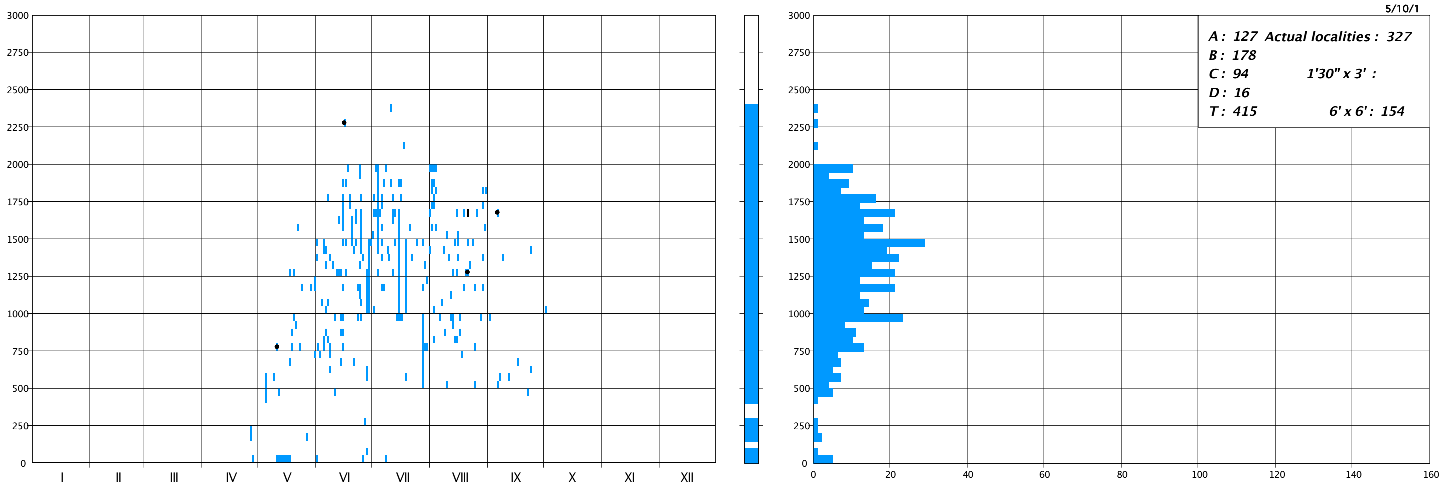


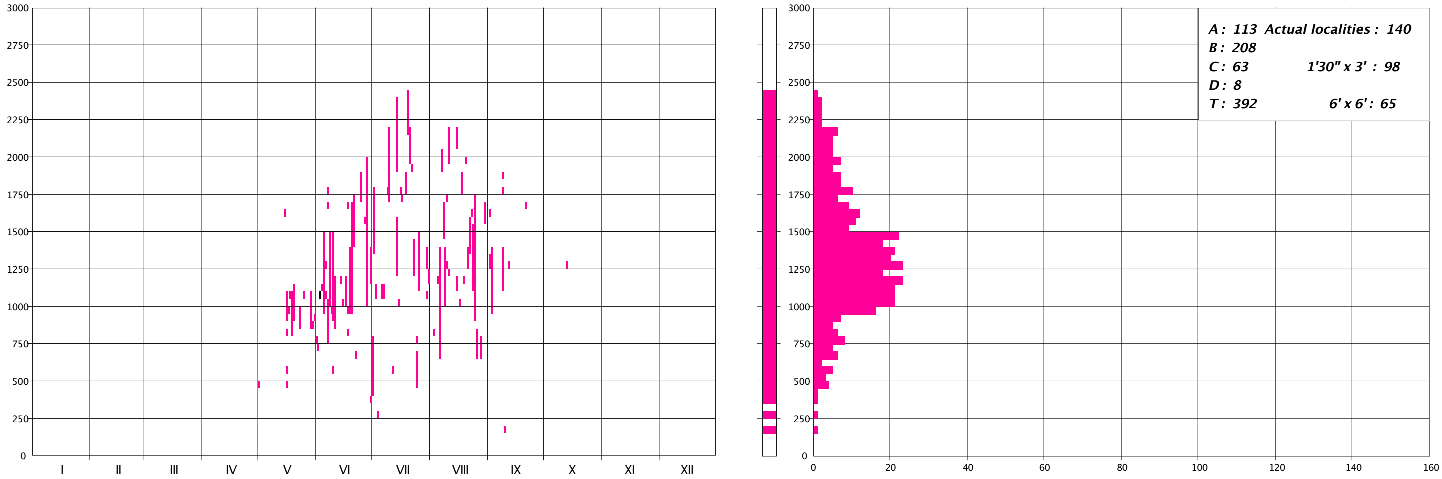


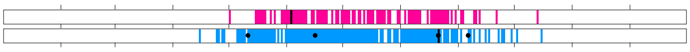
LYCAENIDAE *Aricia artaxerxes*



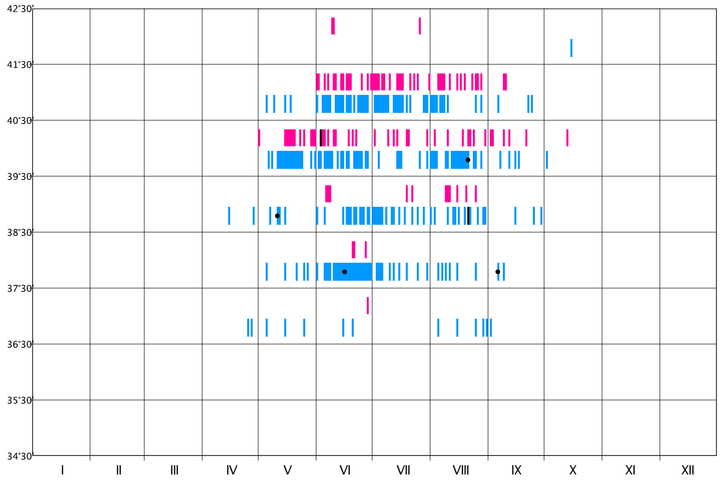


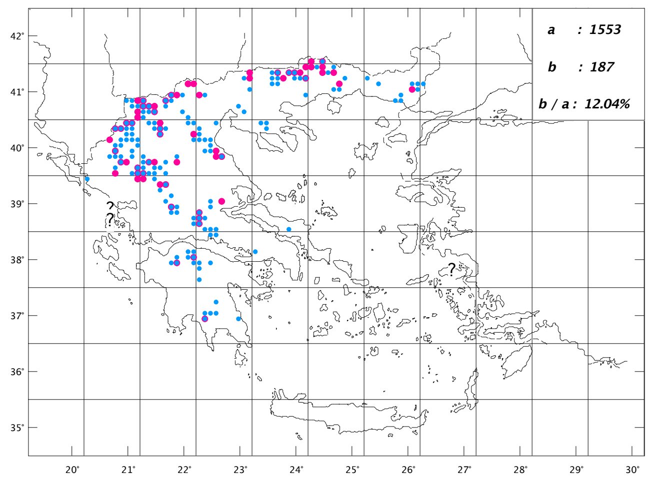


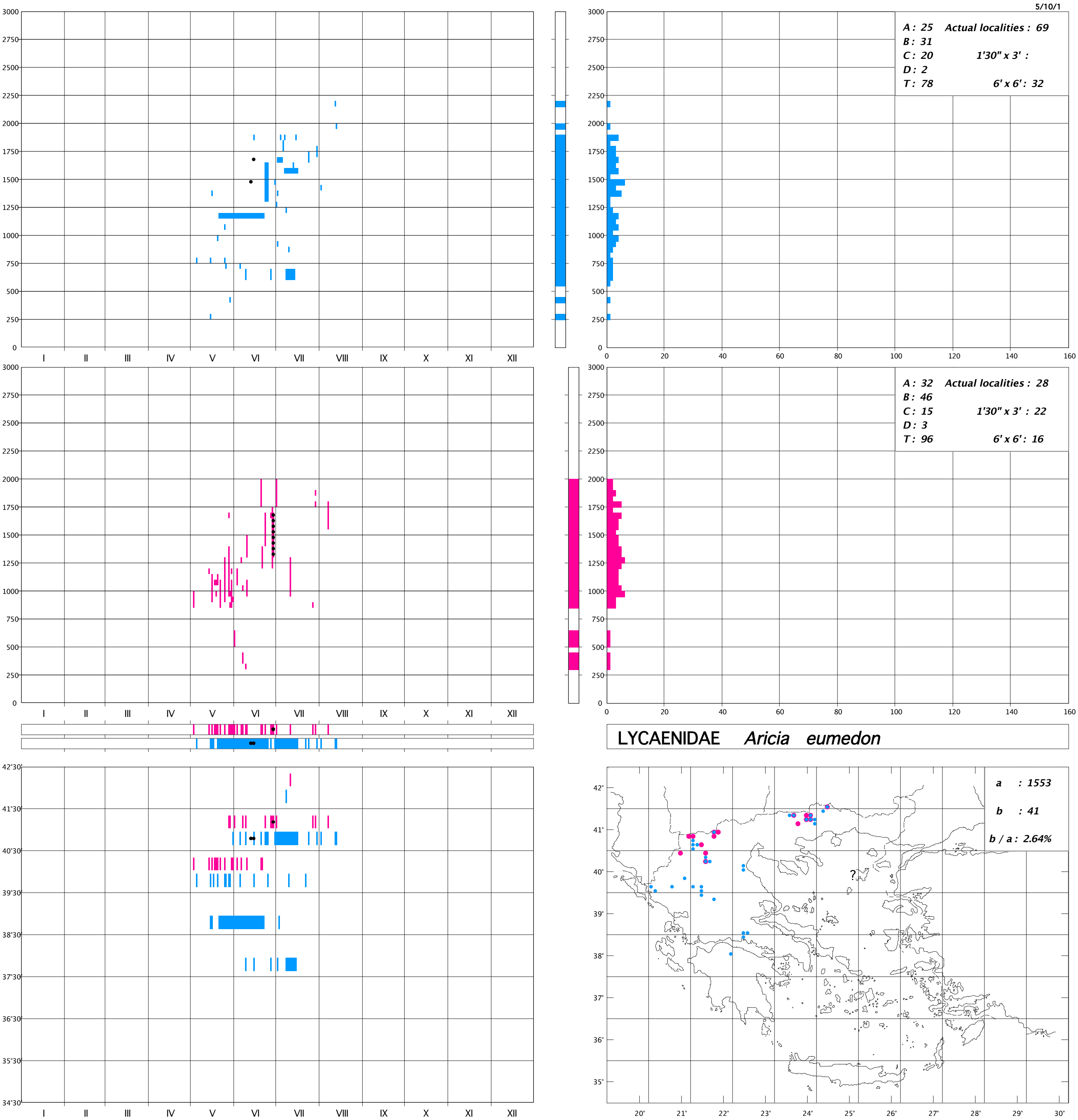




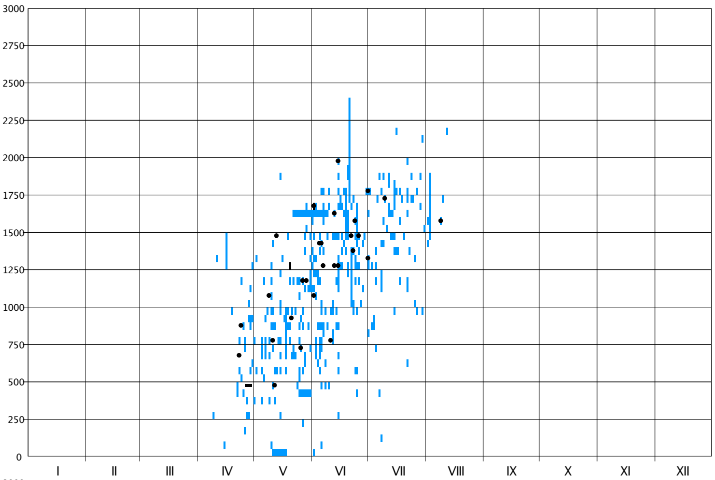
LYCAENIDAE *Aricia anteros*

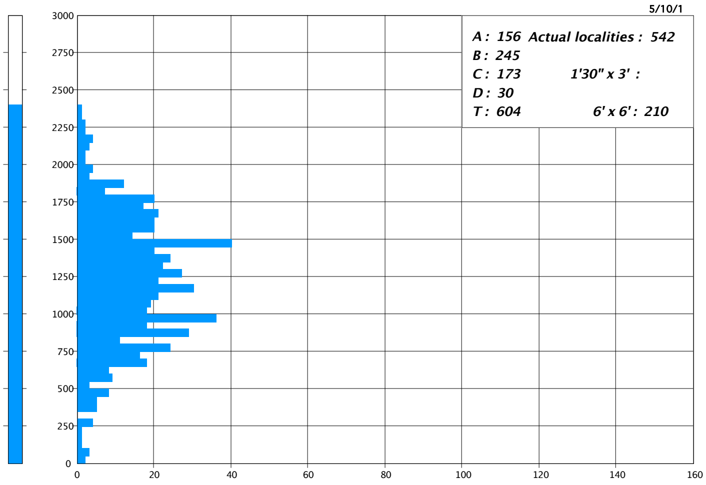


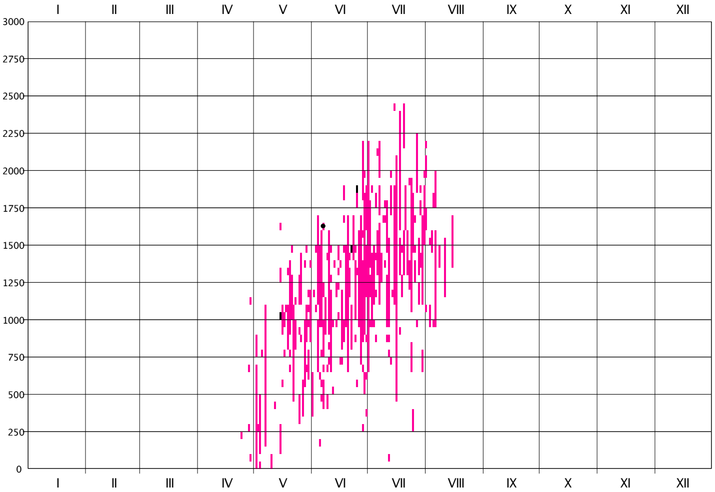


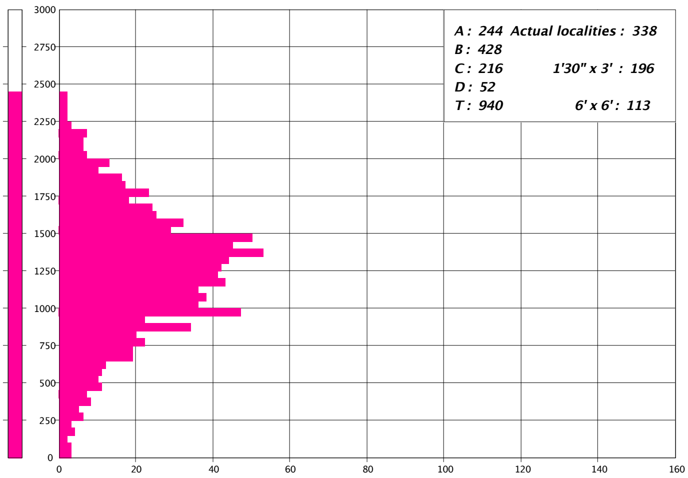


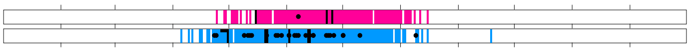
LYCAENIDAE *Aricia eumedon*











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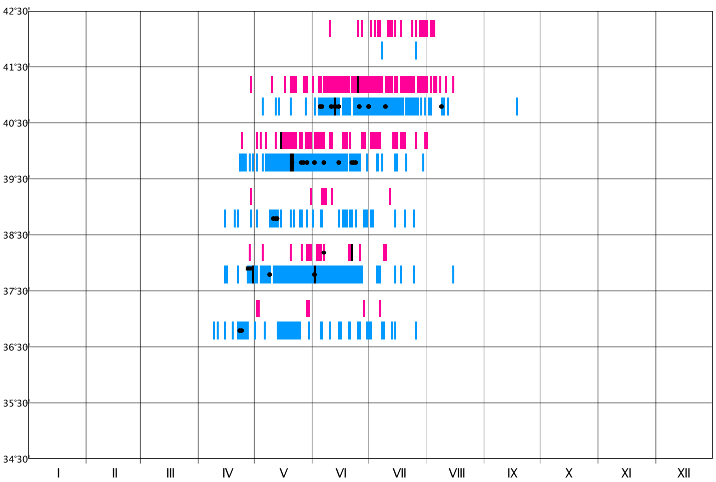

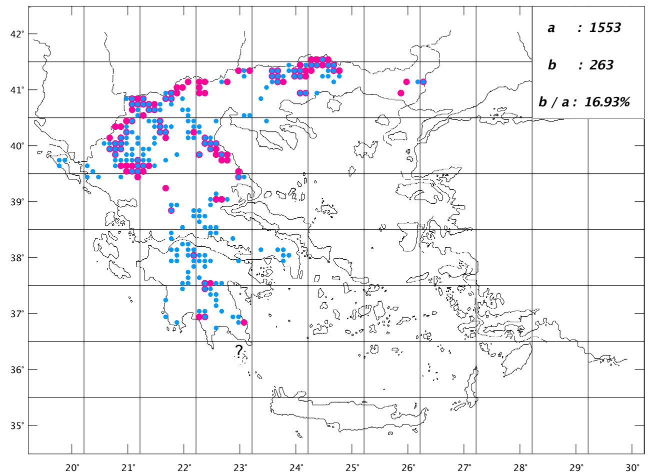

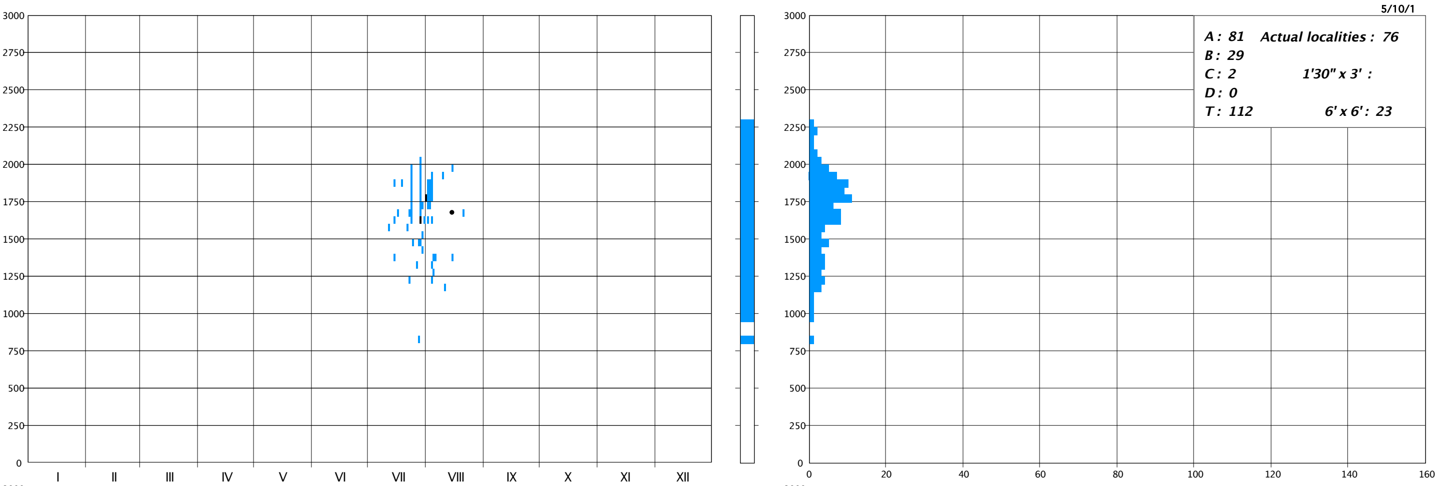

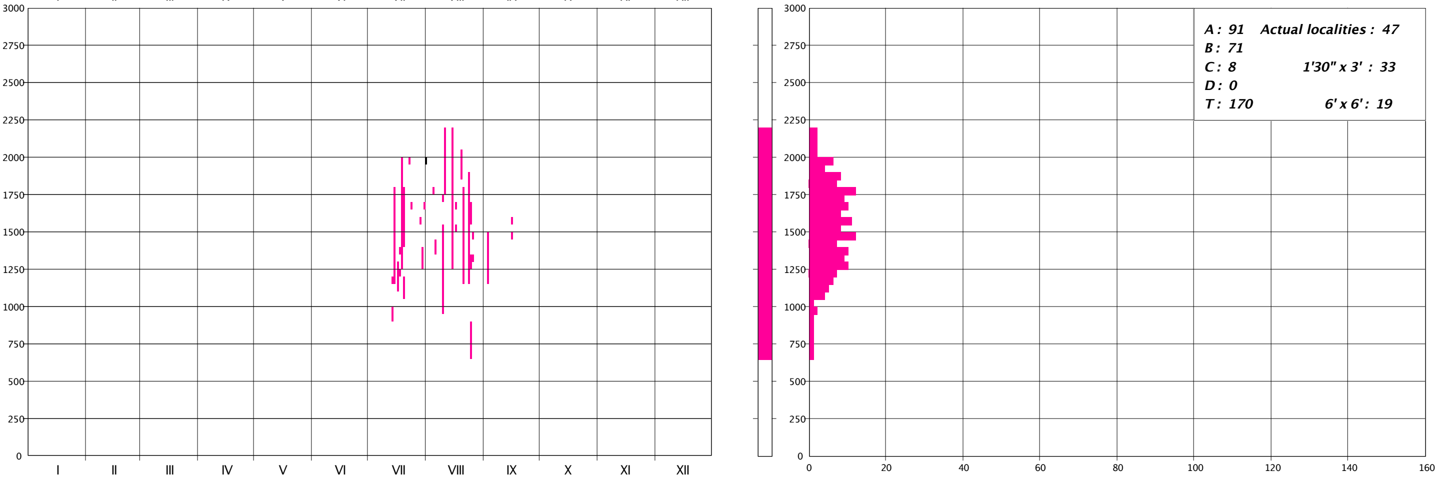

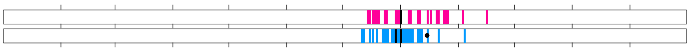

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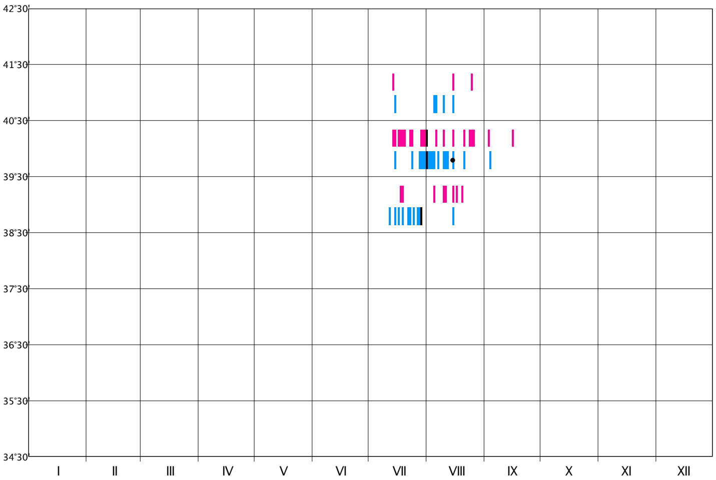

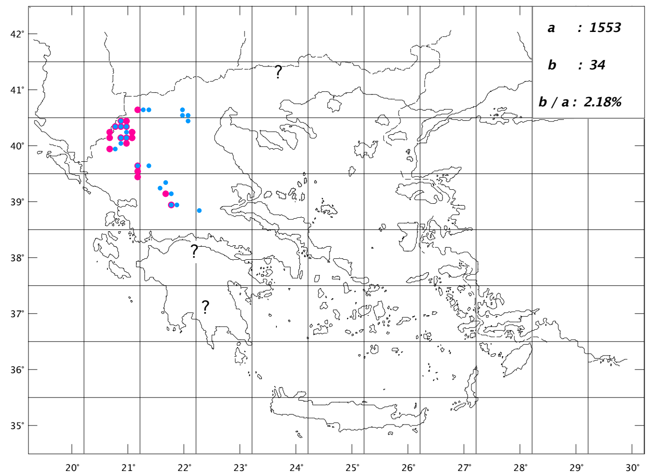

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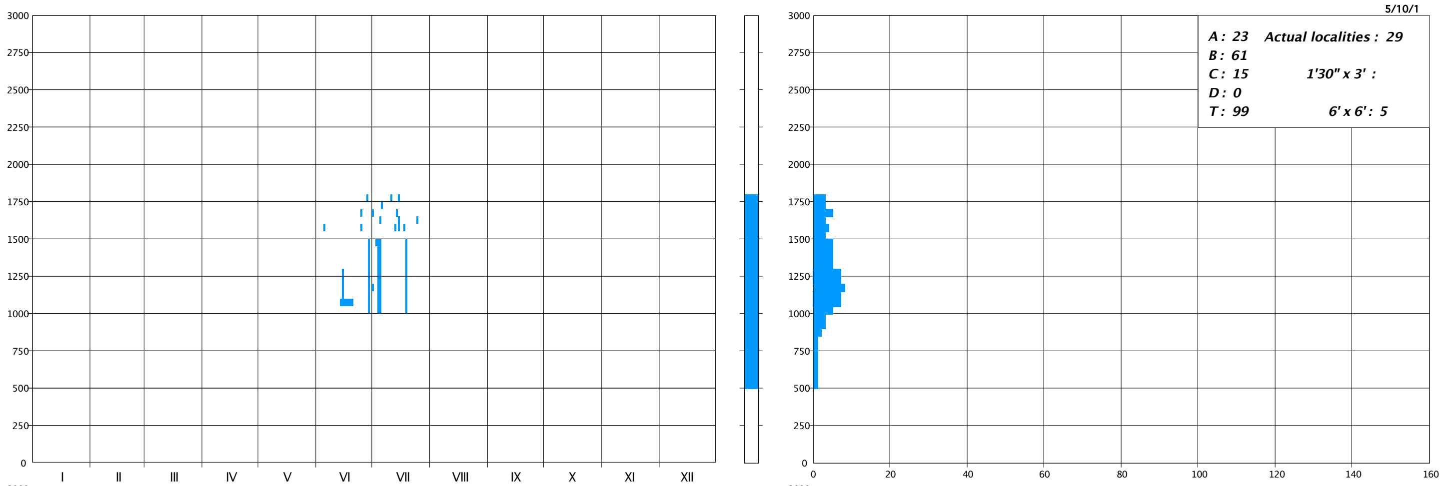

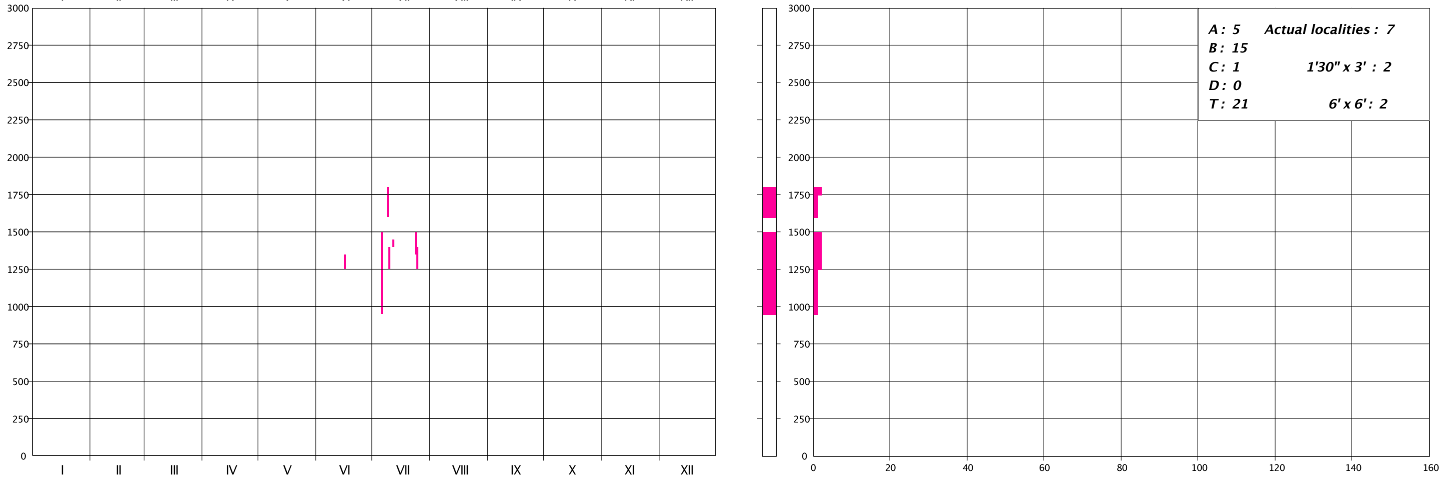

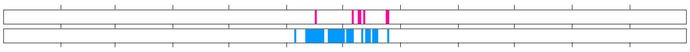

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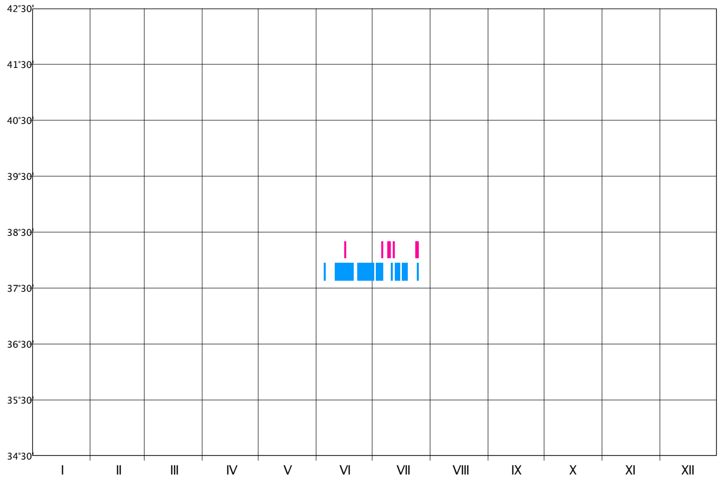
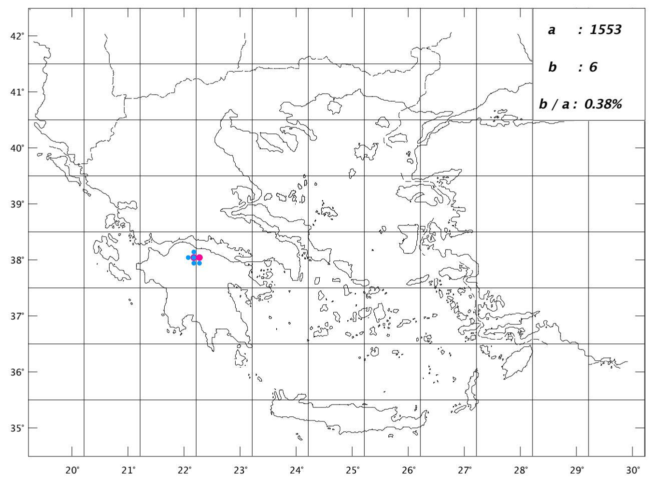
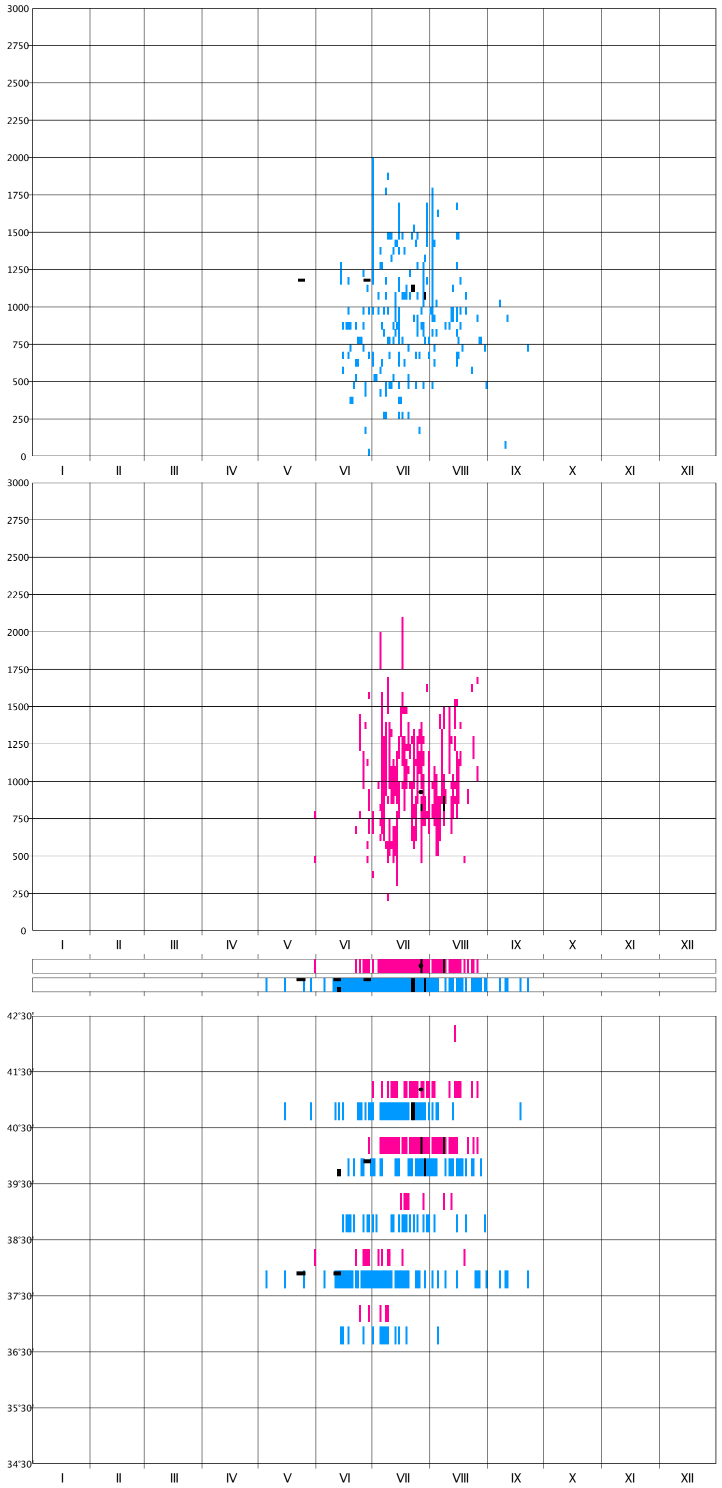
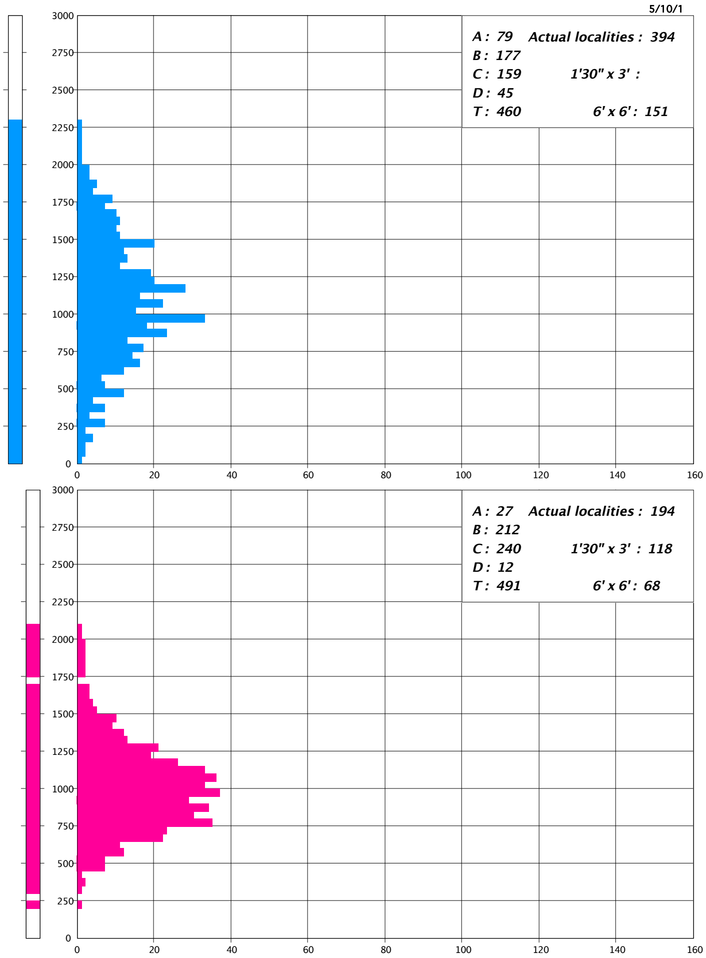
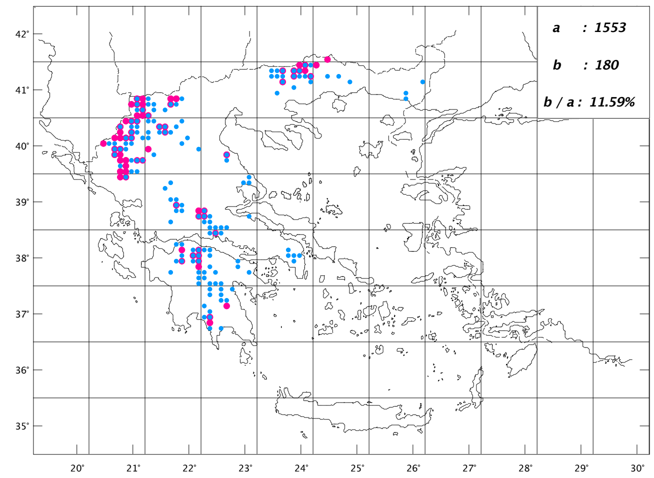


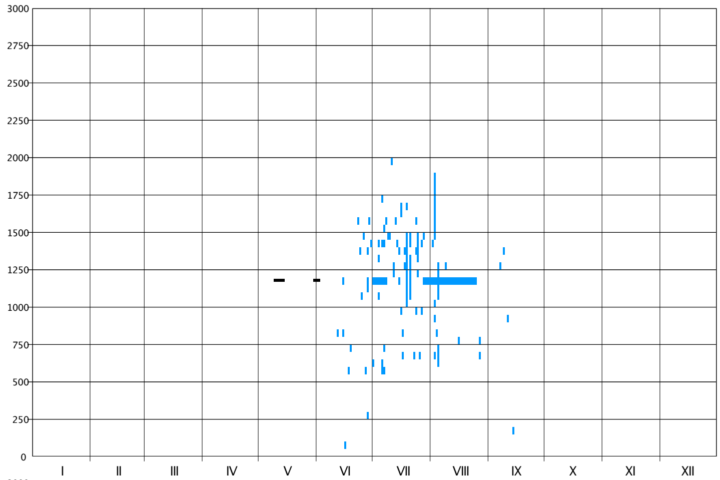


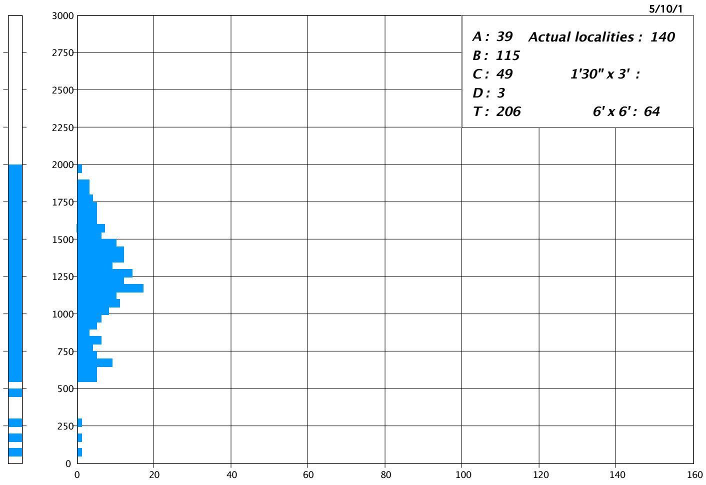


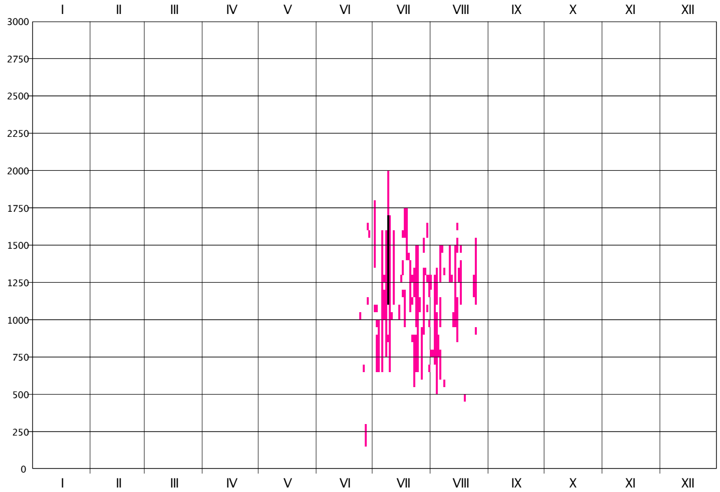


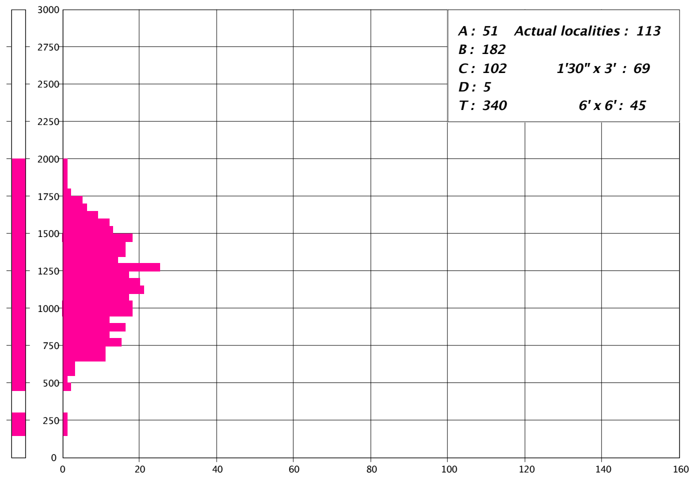
LYCAENIDAE *Polyommatus admetus*

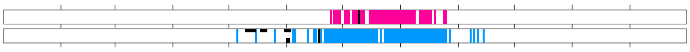




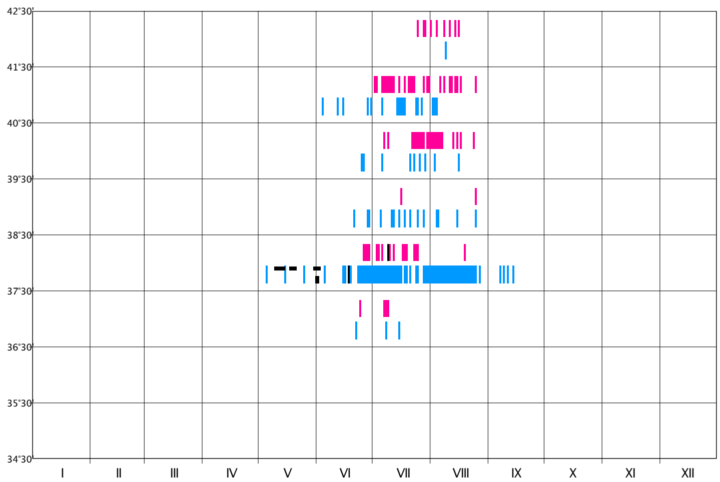


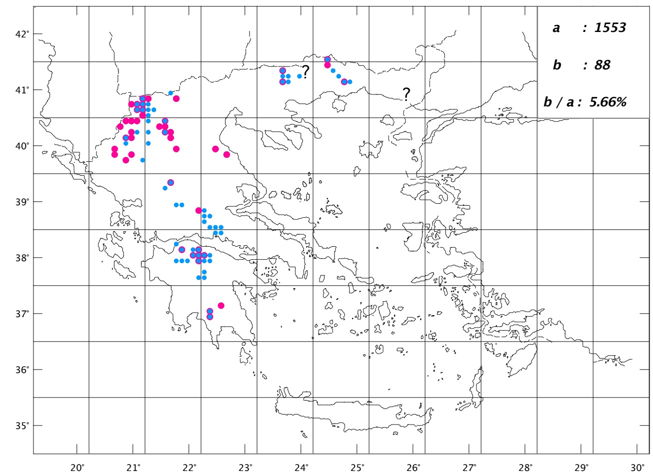


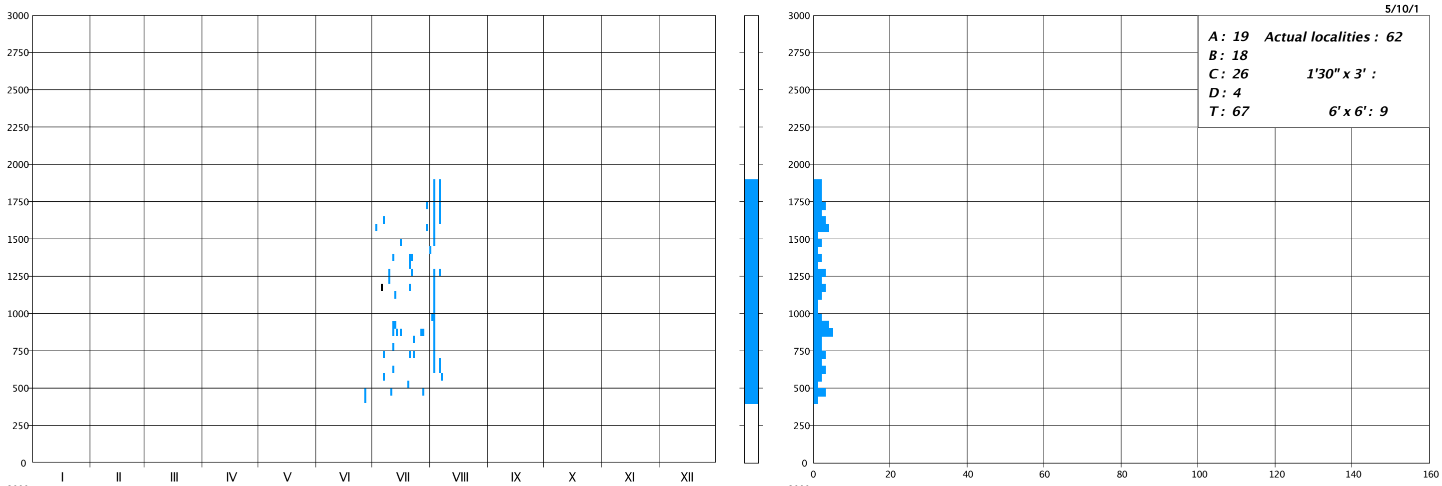


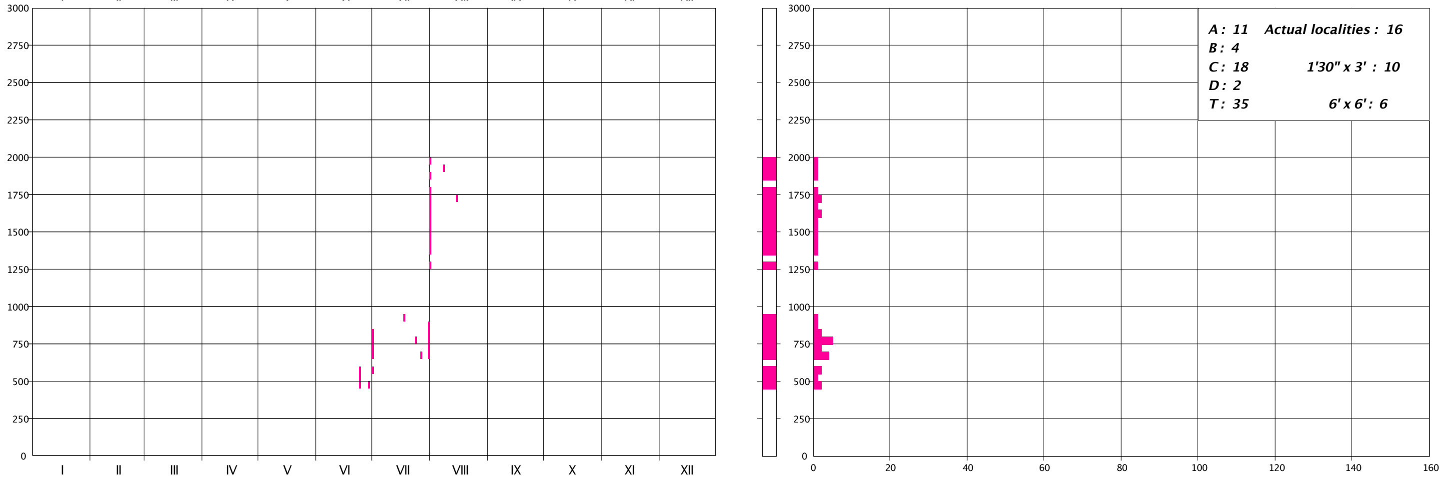


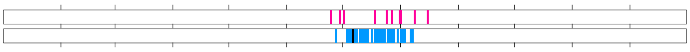
LYCAENIDAE *Polyommatus aroaniensis*



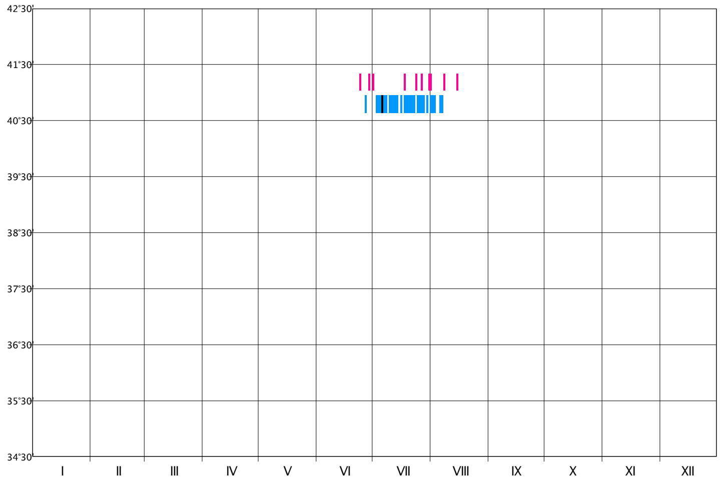


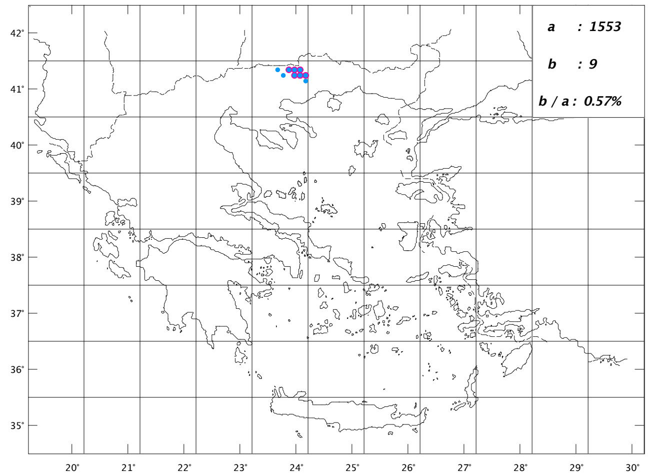


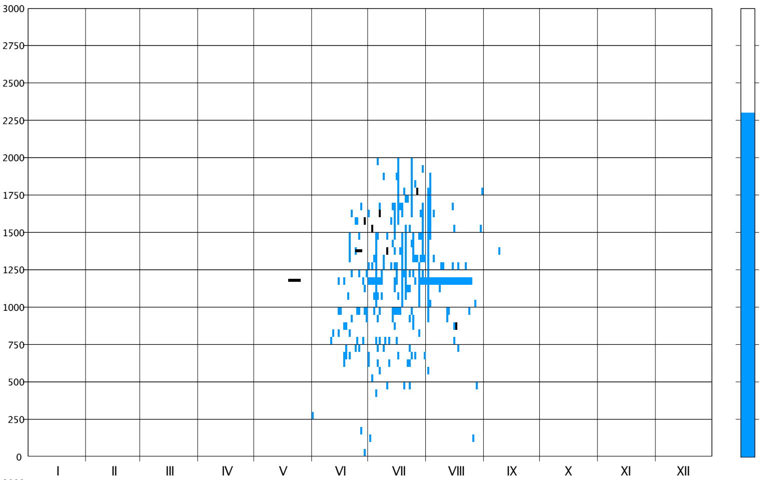


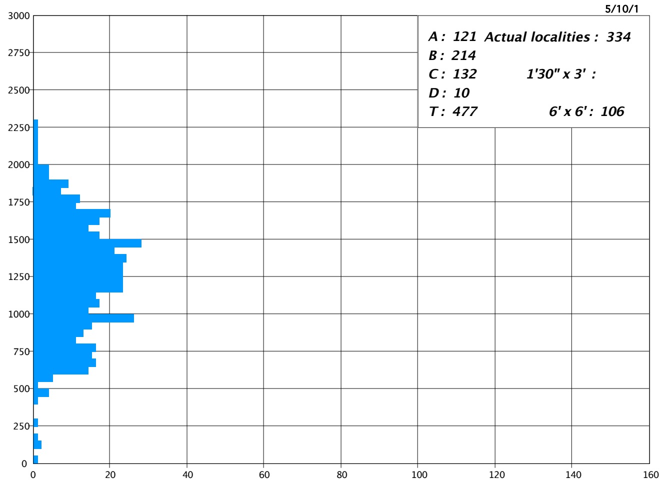


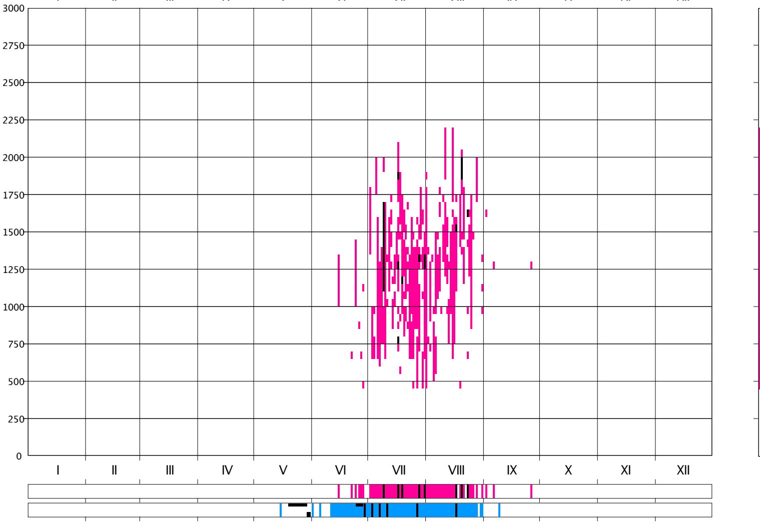
LYCAENIDAE *Polyommatus eleniae*

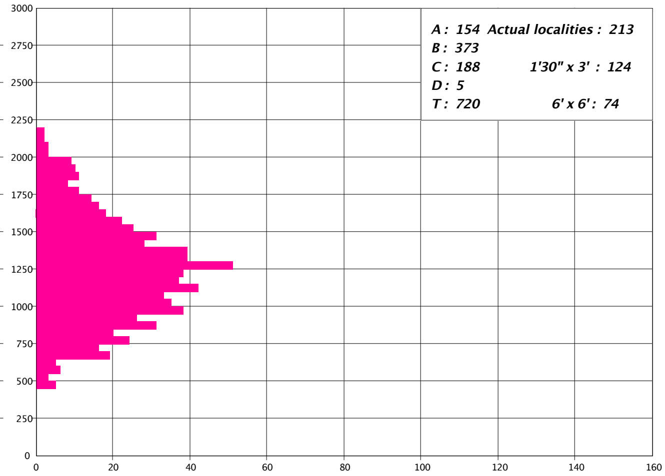




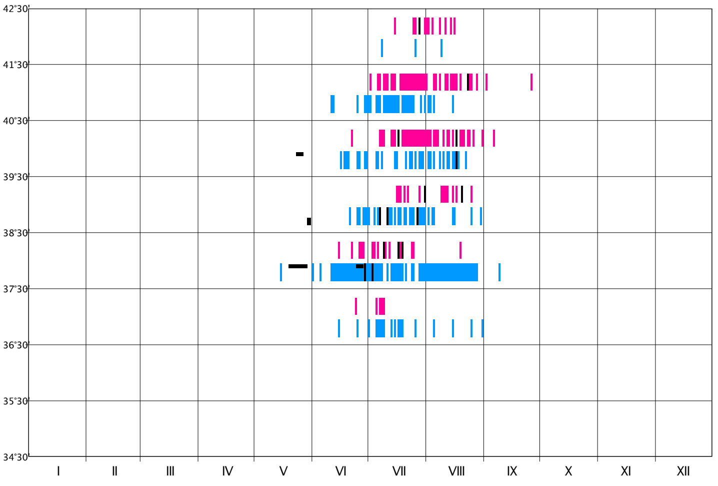


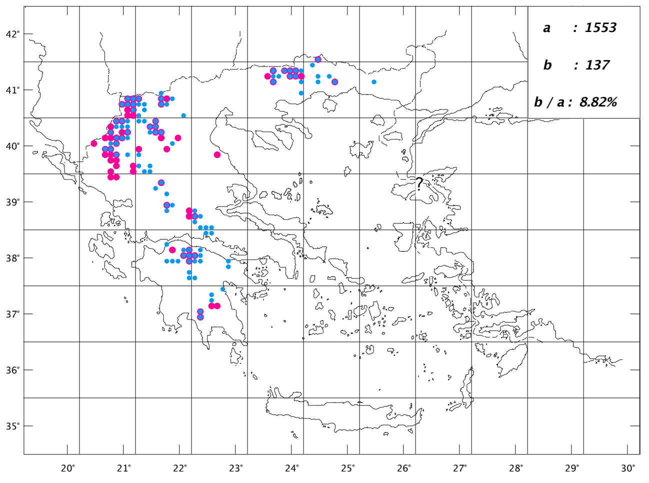


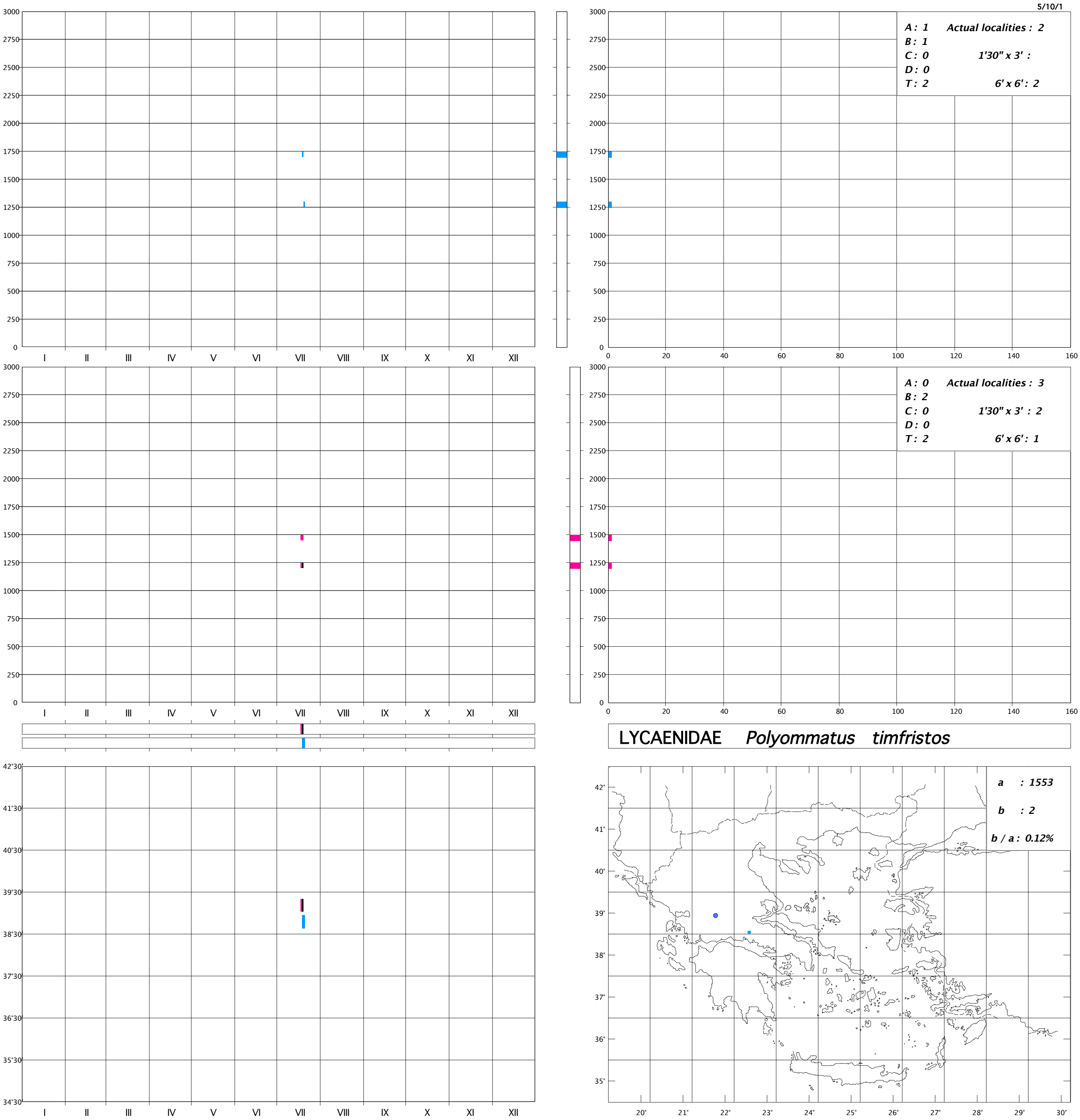




LYCAENIDAE *Polyommatus ripartii*

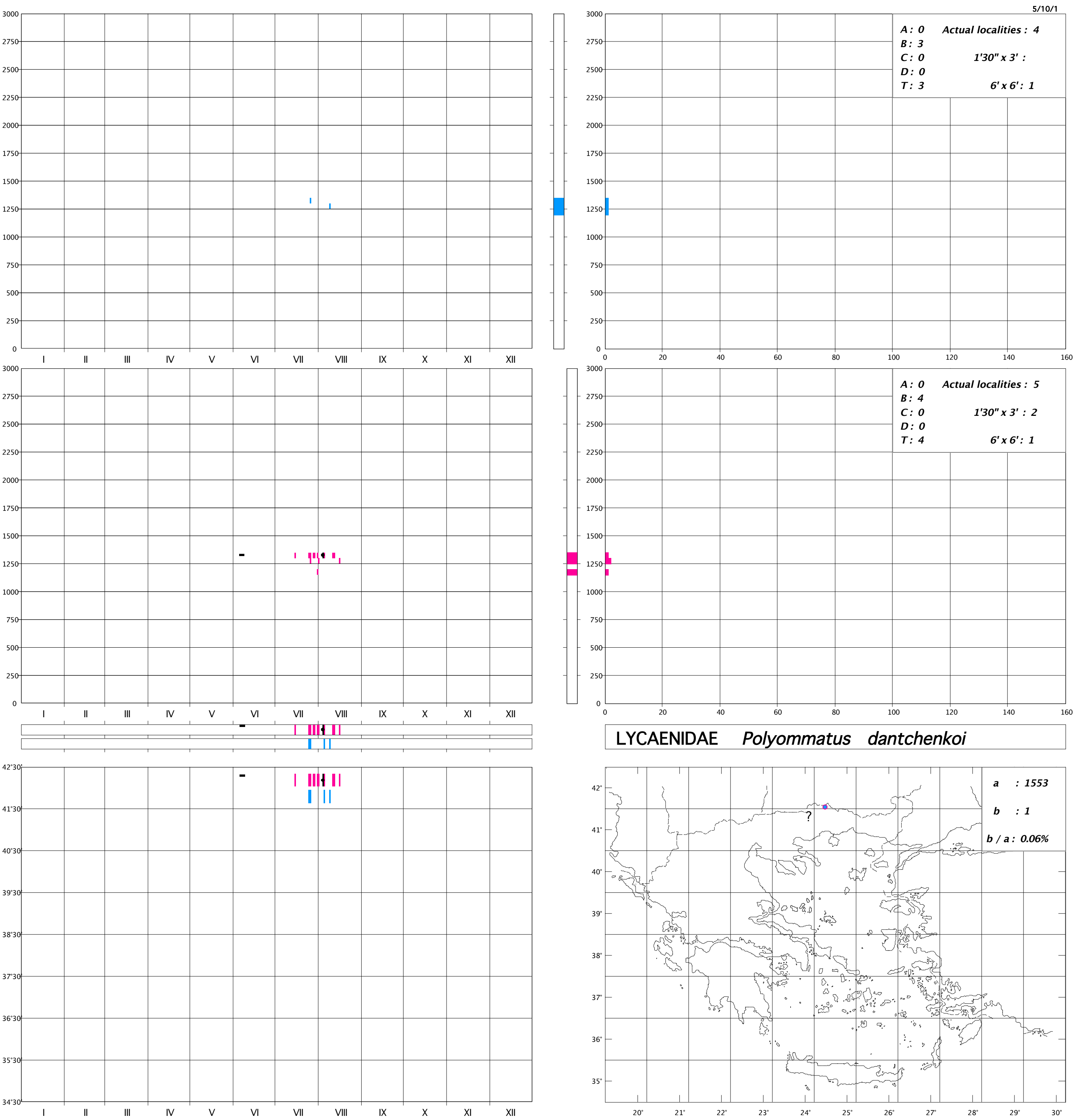






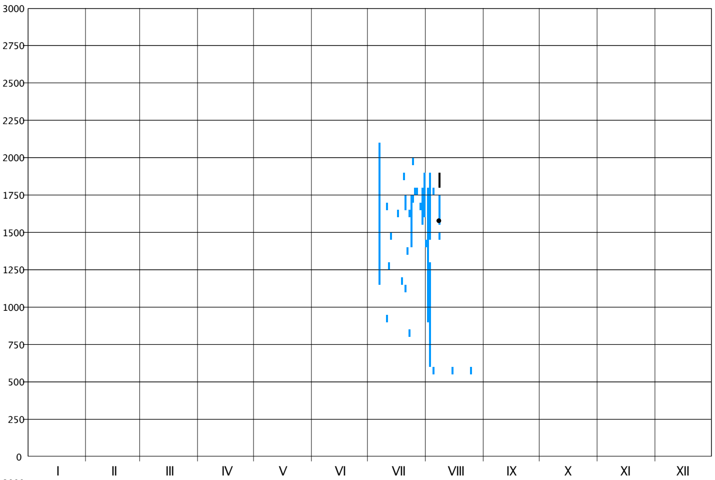
Polyommatus timfristos found in Mt. Parnassos and Mt. Timfristos (see in VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1–85. https://doi.org/10.3897/CompCytogen.v10i5.10944)

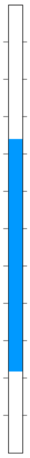
Το *Polyommatus timfristos* βρέθηκε στον Τυμφρηστό και τον Παρνασσό (δες στο VISHNEVSKAYA MS, SAIFITDINOVA AF, LUKHTANOV VA (2016): Karyosystematics and molecular taxonomy of the anomalous blue butterflies (Lepidoptera, Lycaenidae) from the Balkan Peninsula. Comparative Cytogenetics 10(5): 1–85. https://doi.org/10.3897/CompCytogen.v10i5.10944)

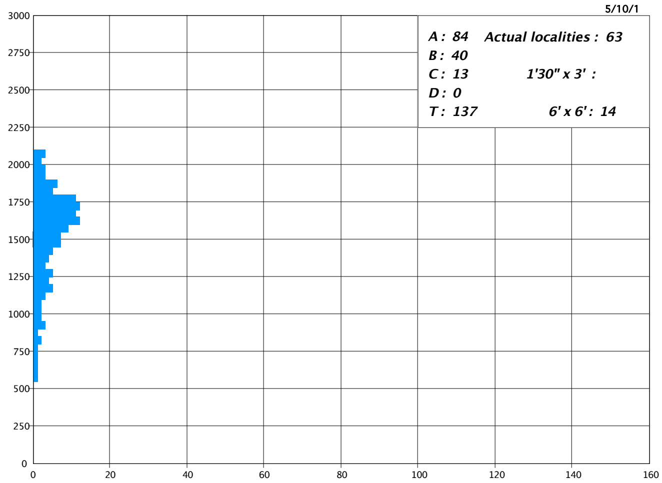


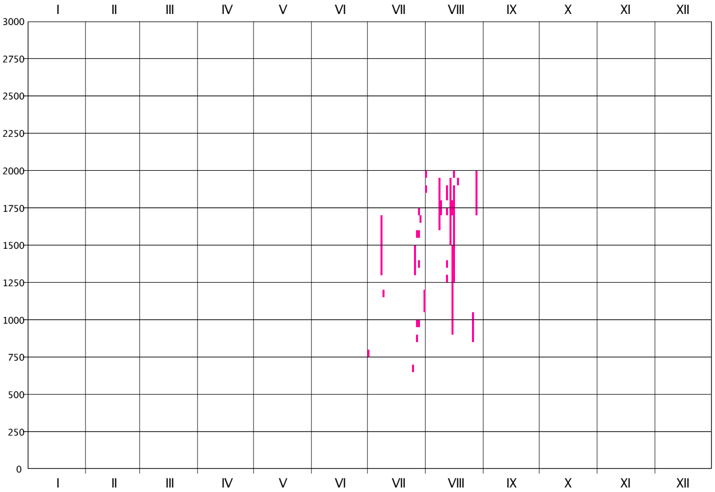
The name *Polyommatus orphicus* is used by many authors

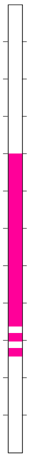
Το όνομα *Polyommatus orphicus* χρησιμοποιείται από πολλούς συγγραφείς

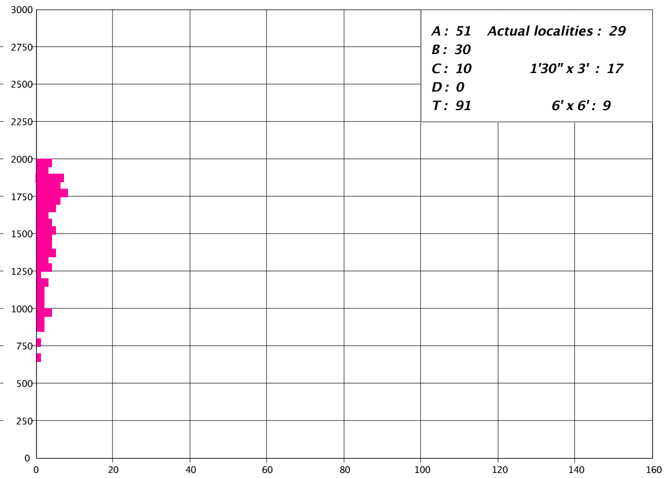


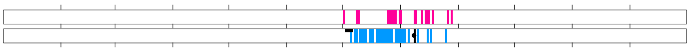




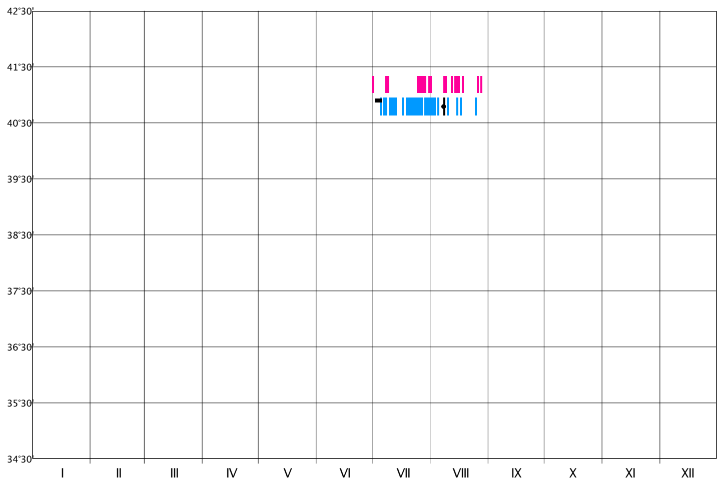


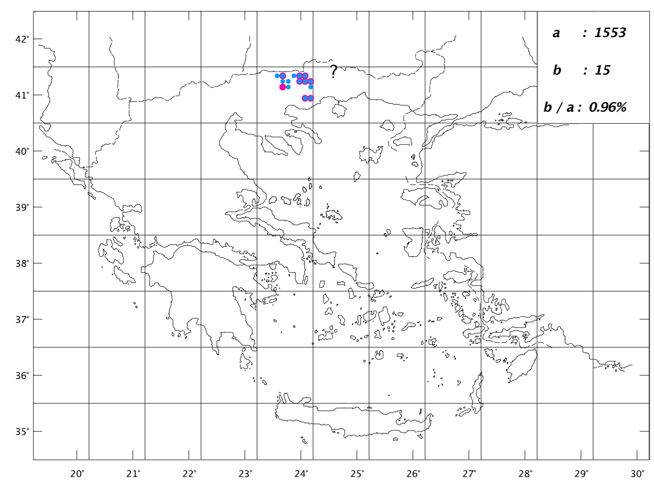


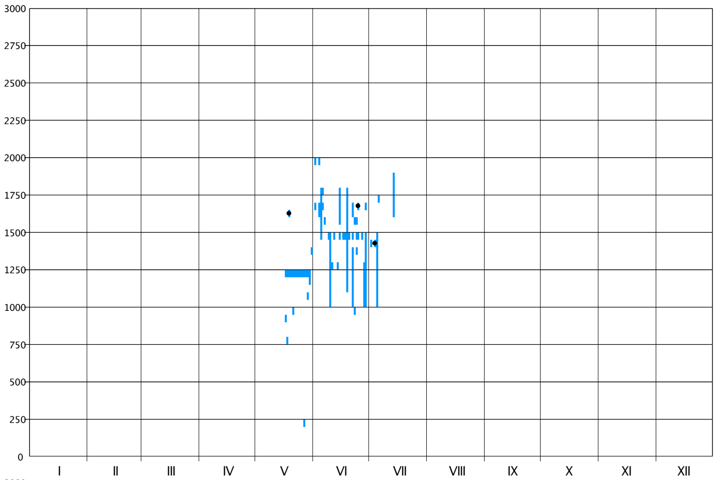


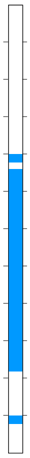


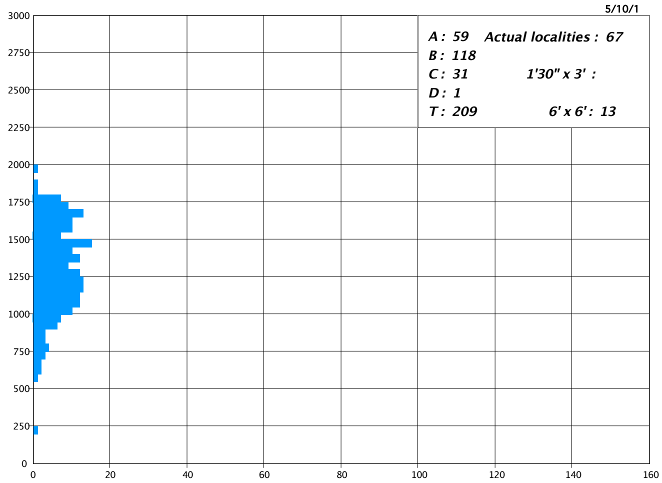
LYCAENIDAE *Polyommatus nephohiptamenos*

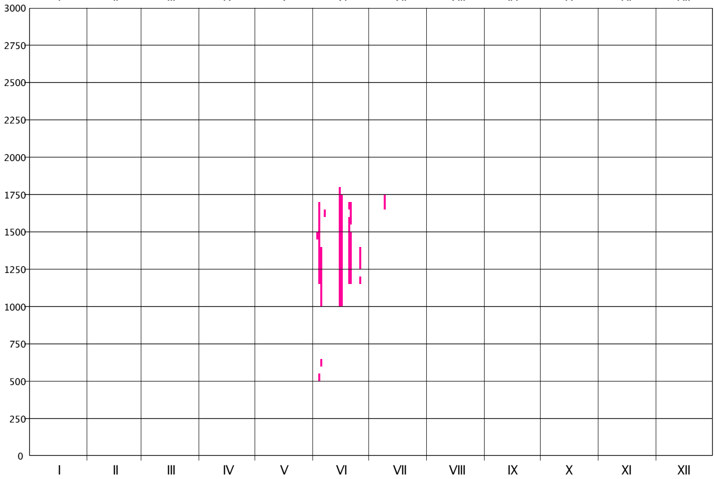


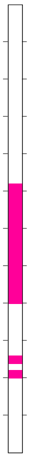


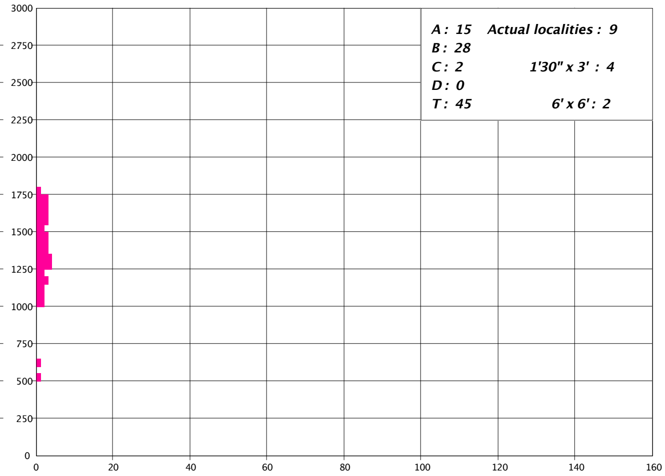


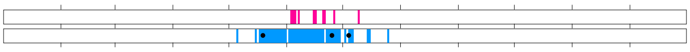




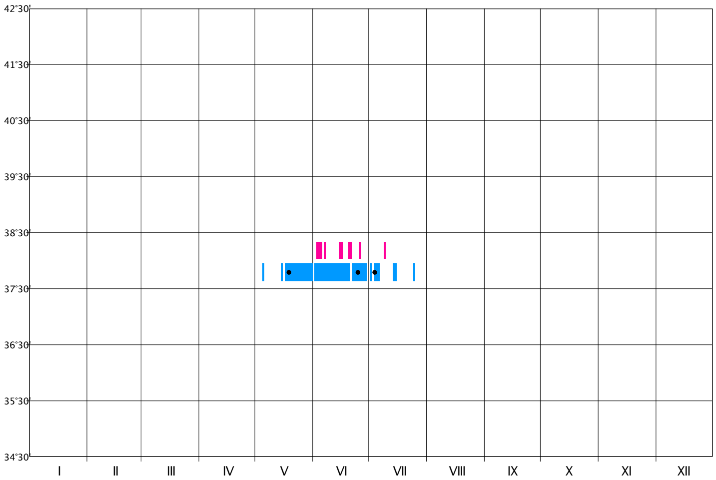


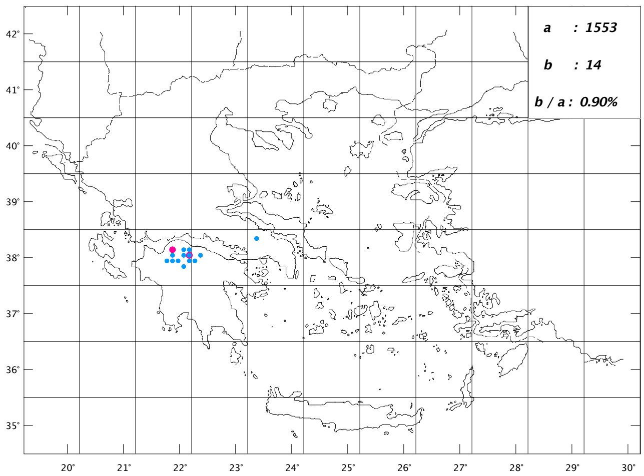


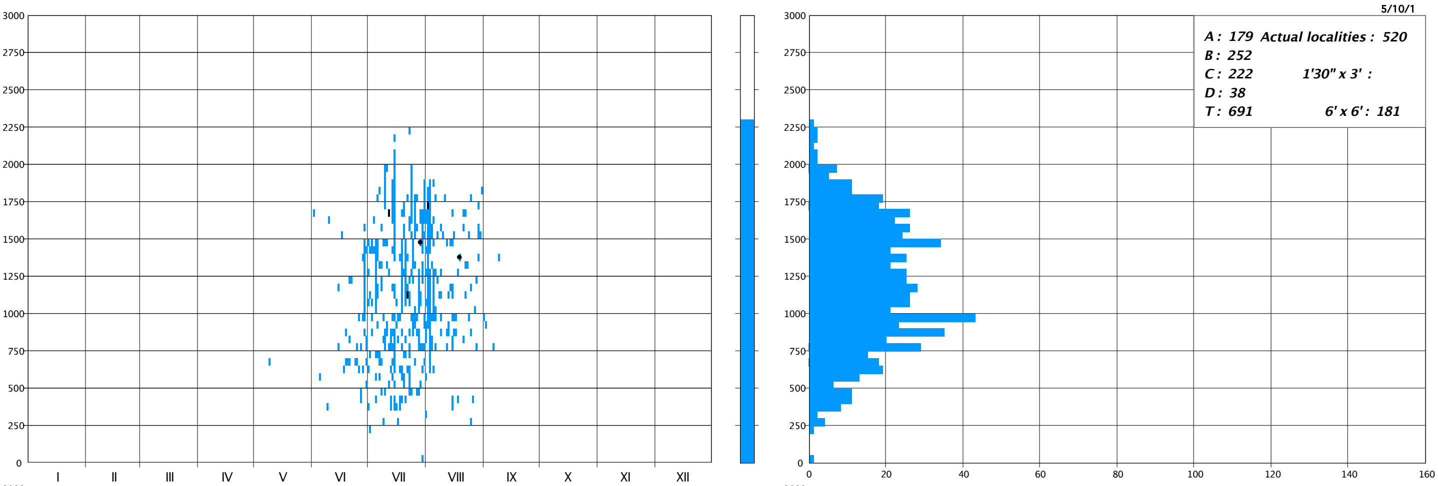


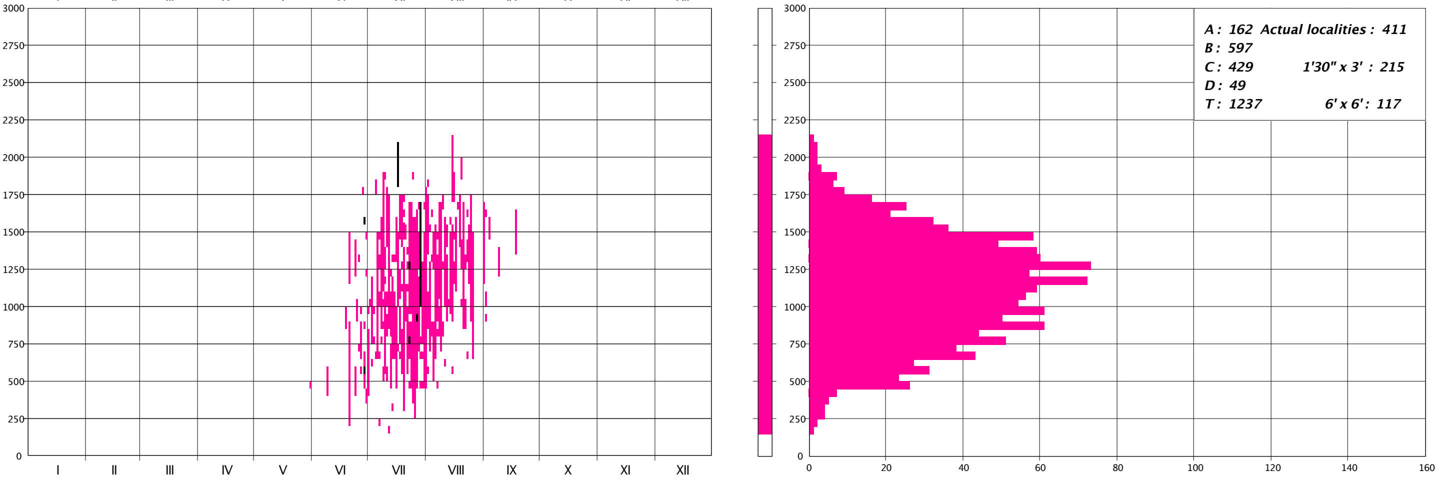


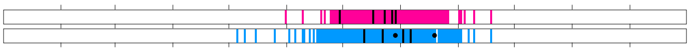
LYCAENIDAE *Polyommatus coelestina*



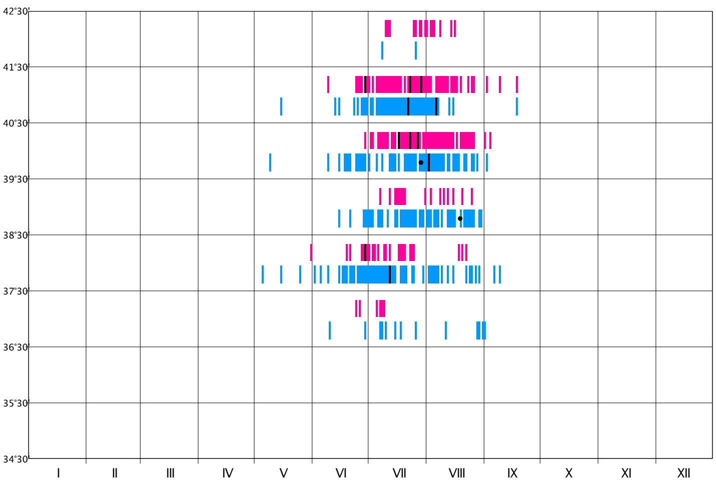


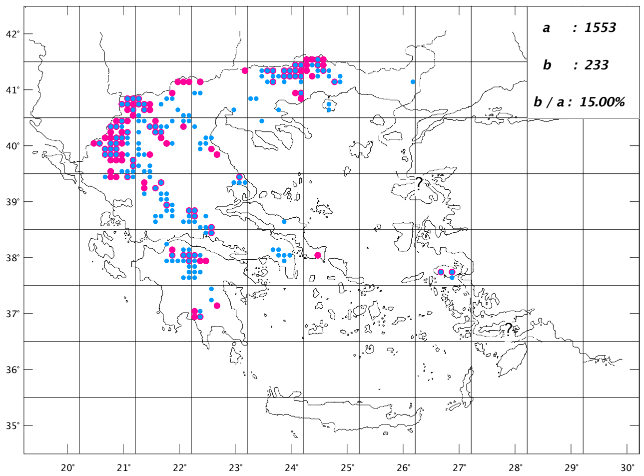


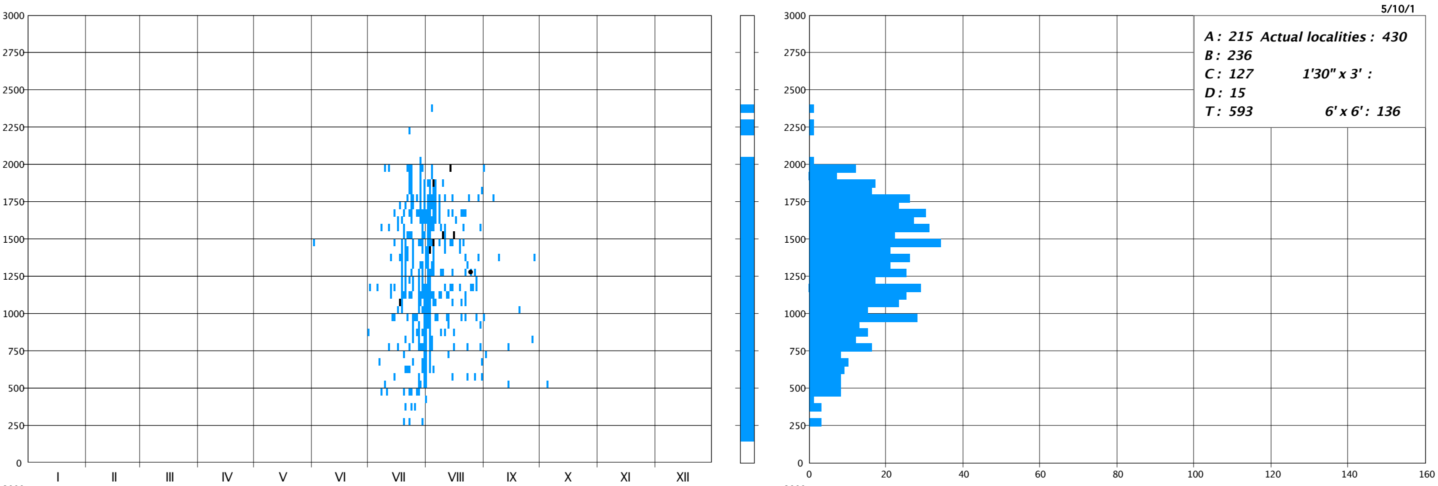


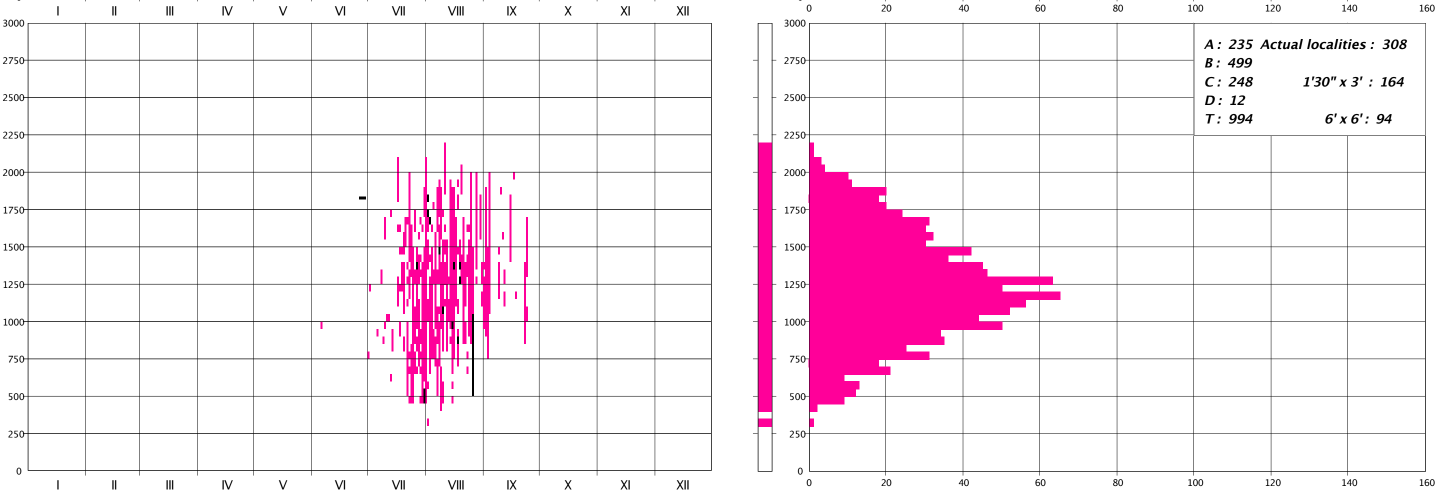


LYCAENIDAE *Polyommatus daphnis*

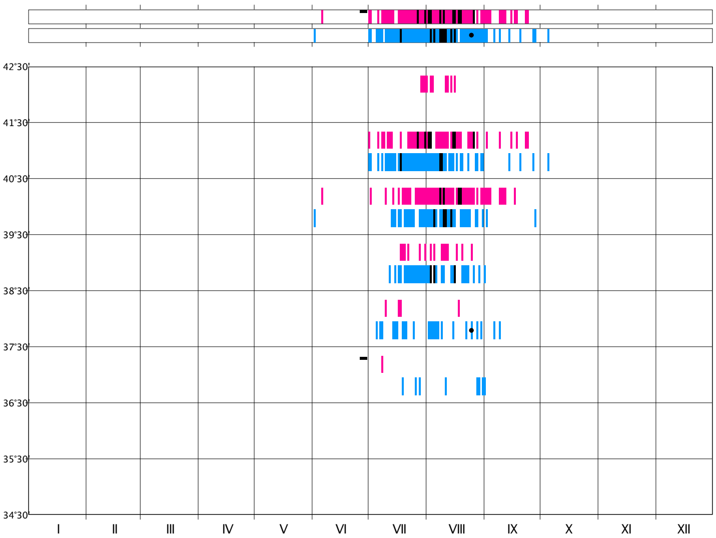


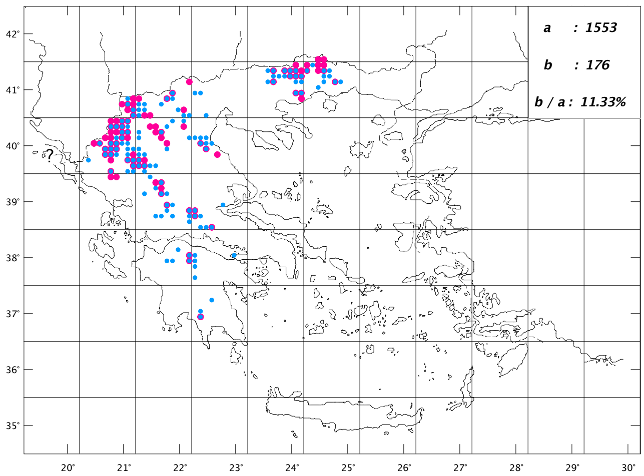


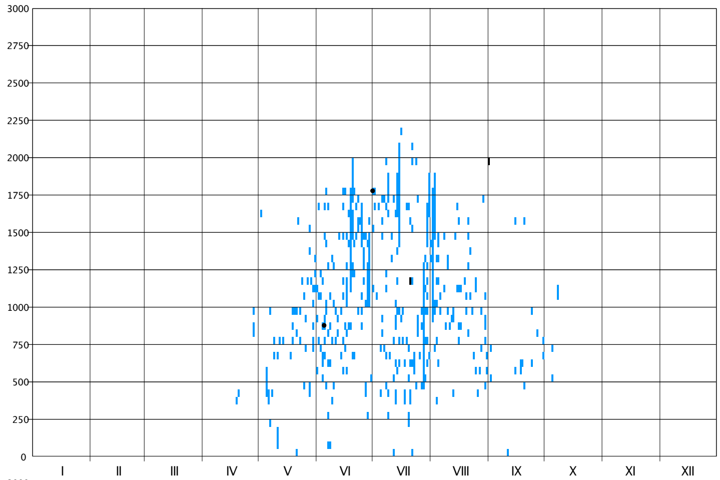


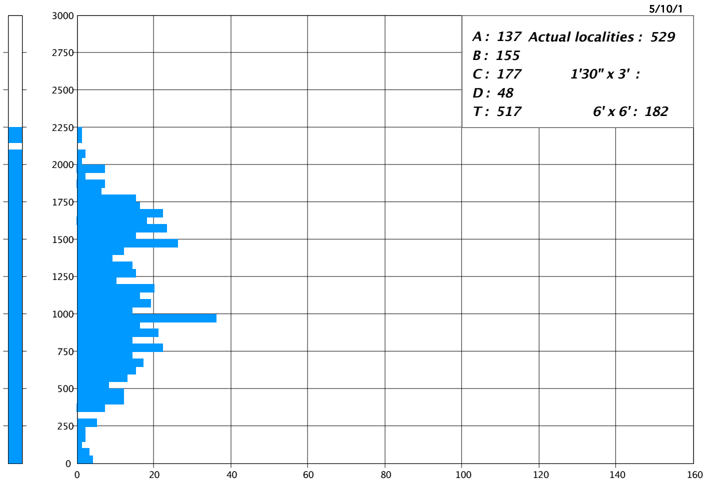


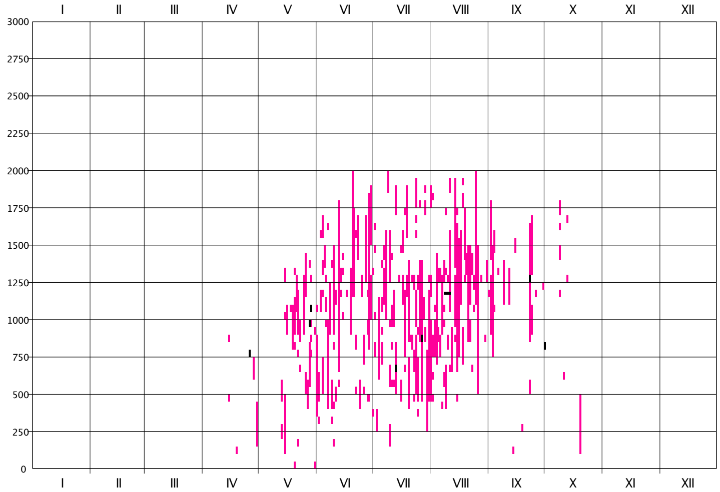
LYCAENIDAE *Polyommatus coridon*

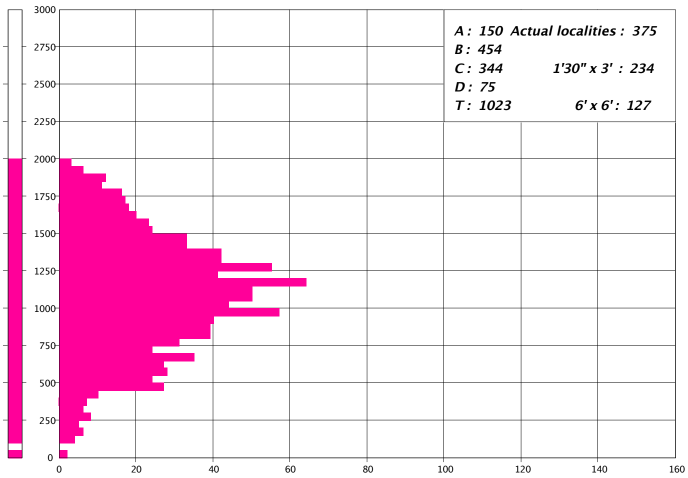


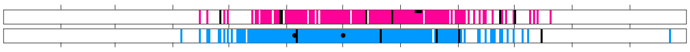




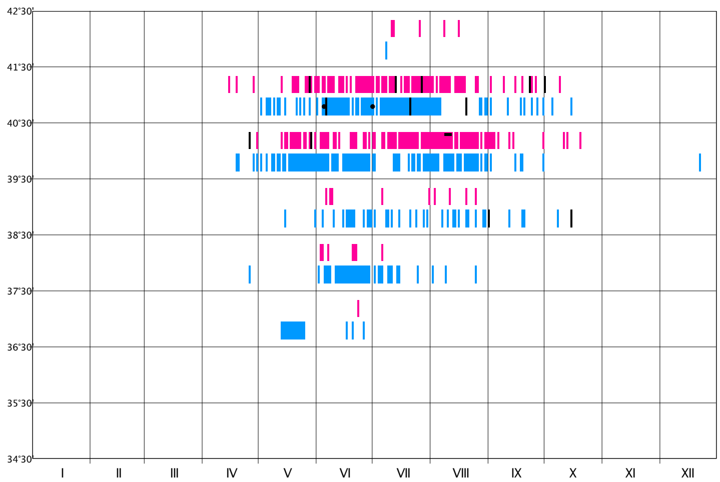


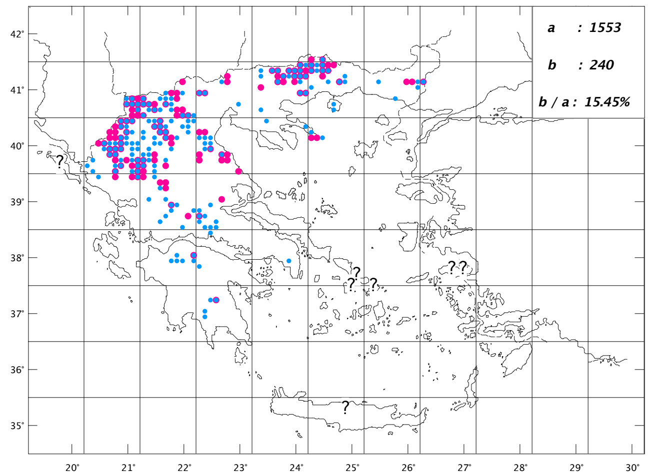


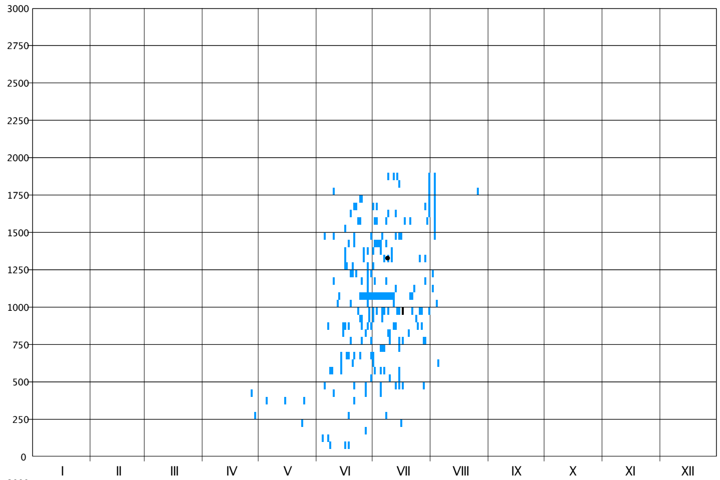


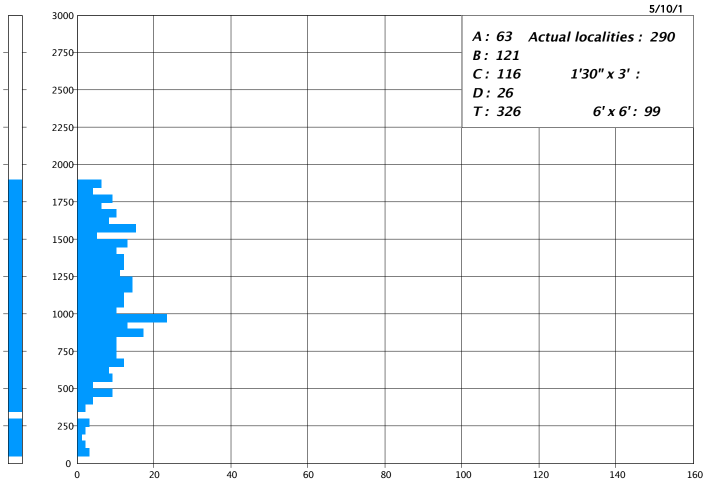


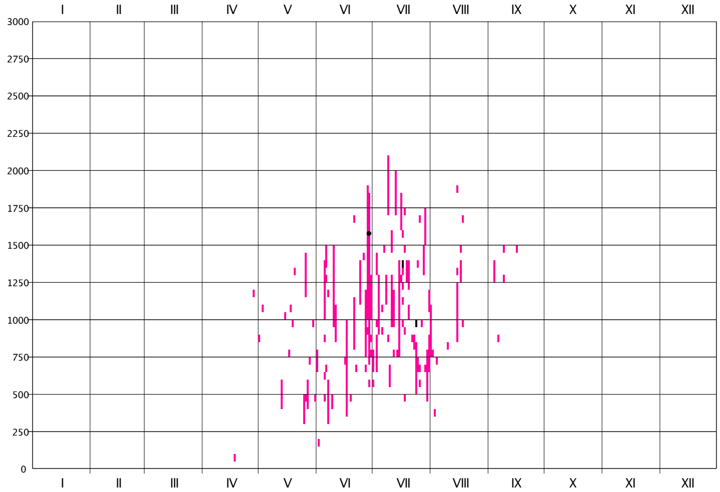
LYCAENIDAE *Polyommatus bellargus*

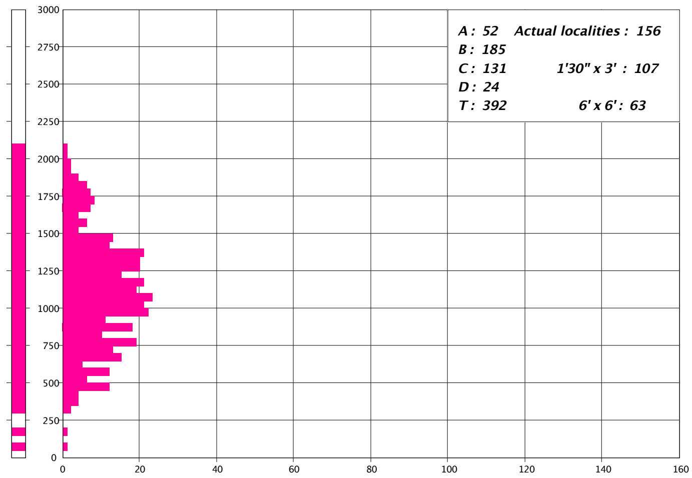


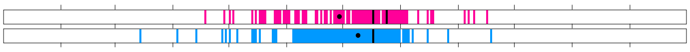












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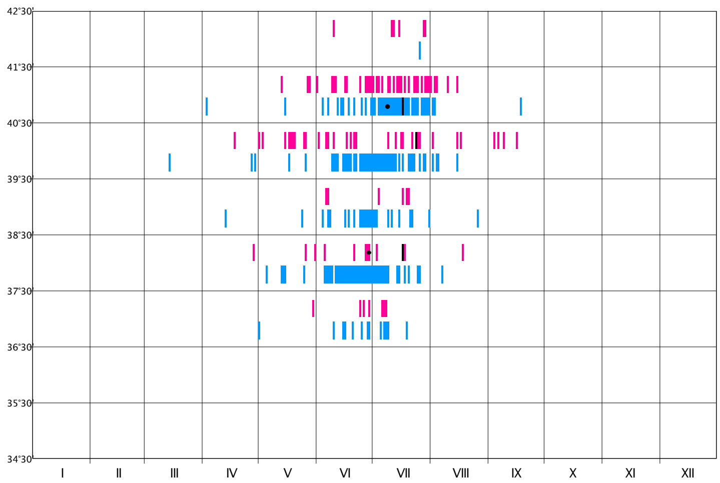
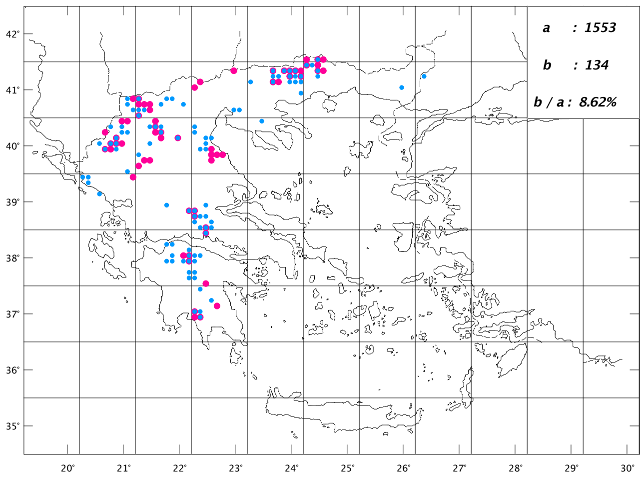
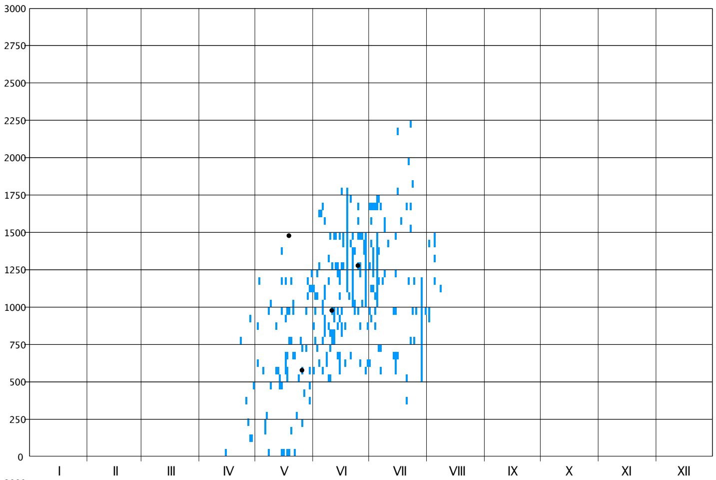
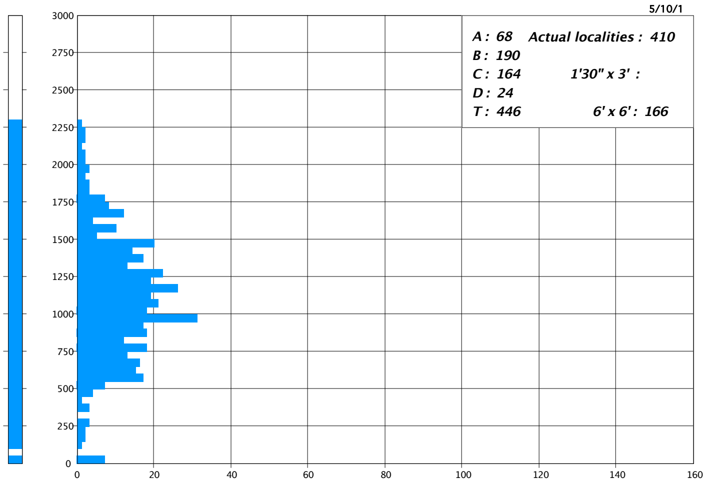
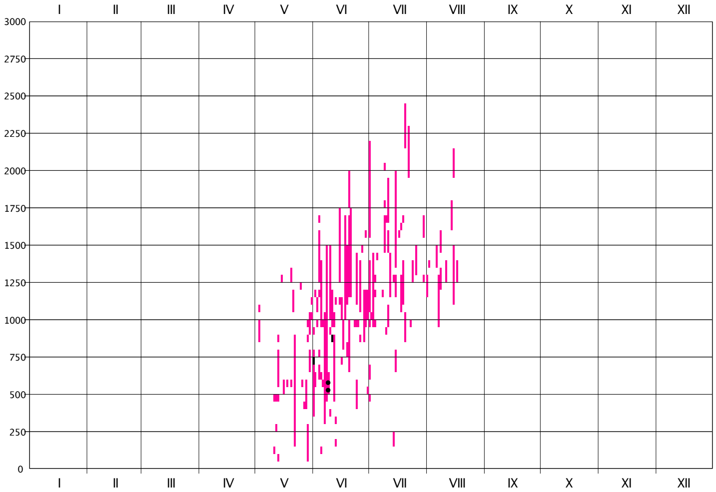
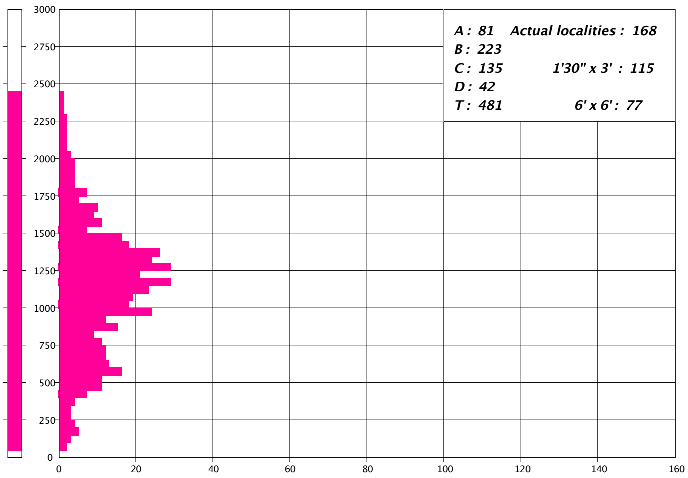


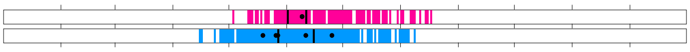




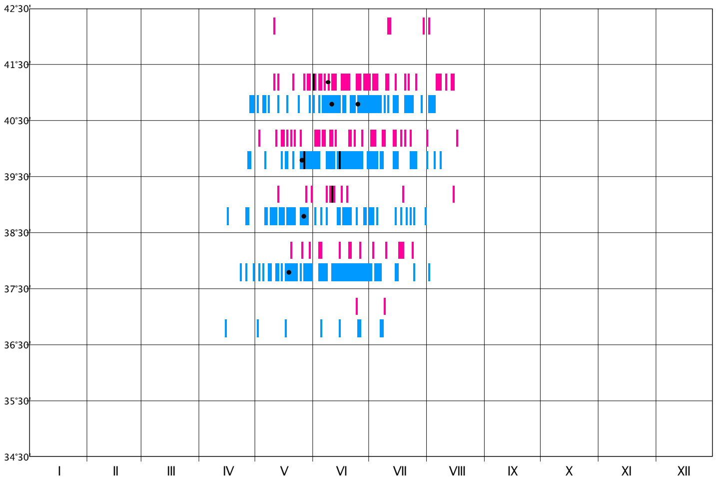


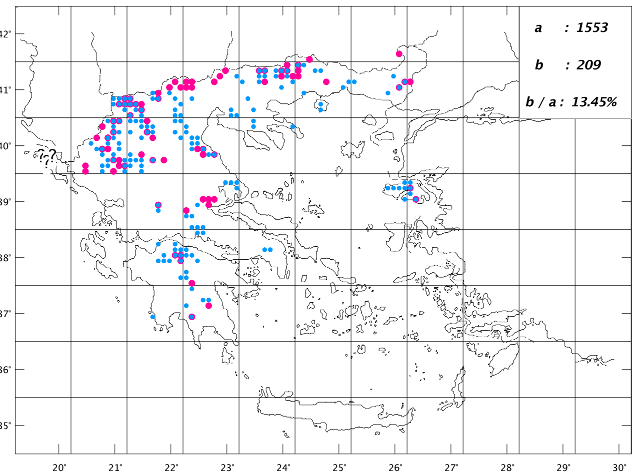


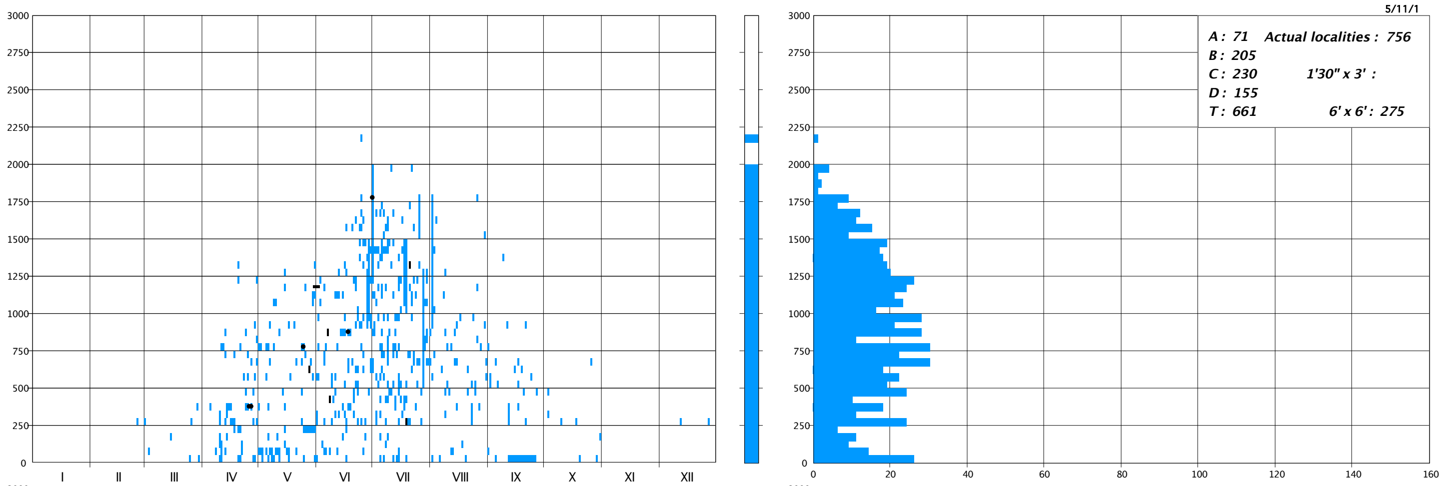


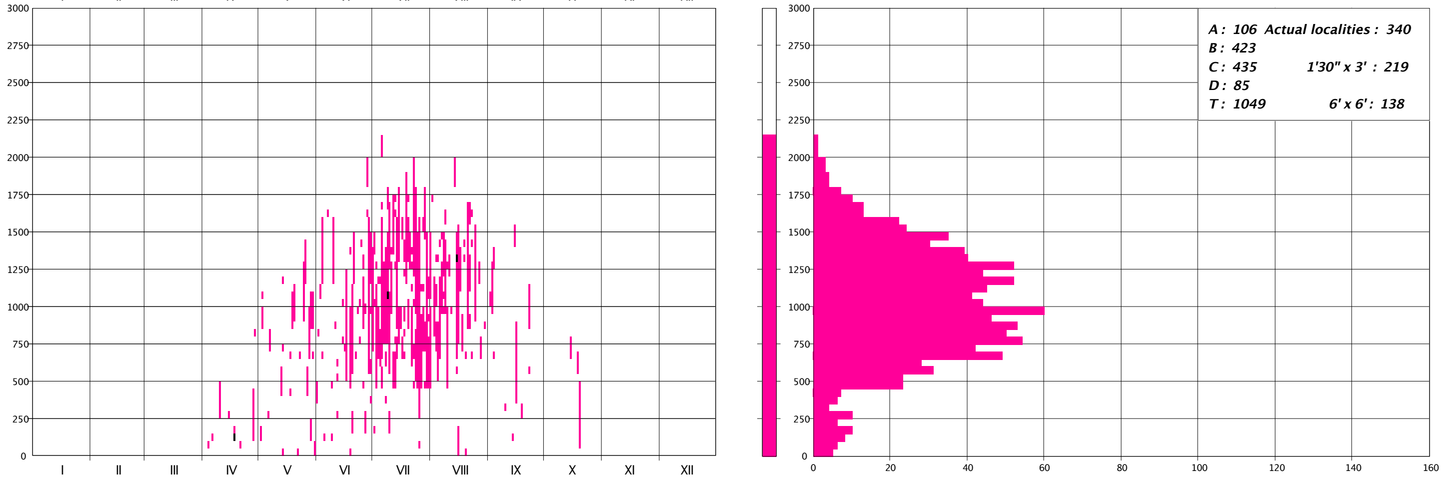


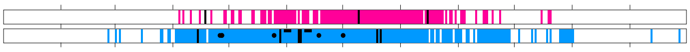
LYCAENIDAE *Polyommatus amanda*



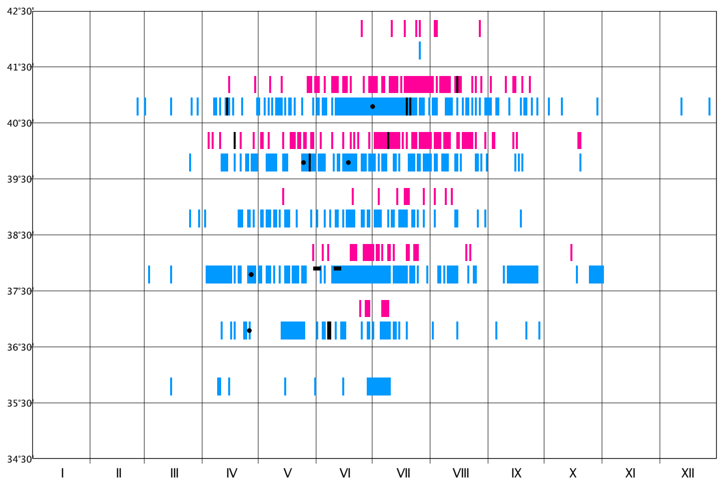


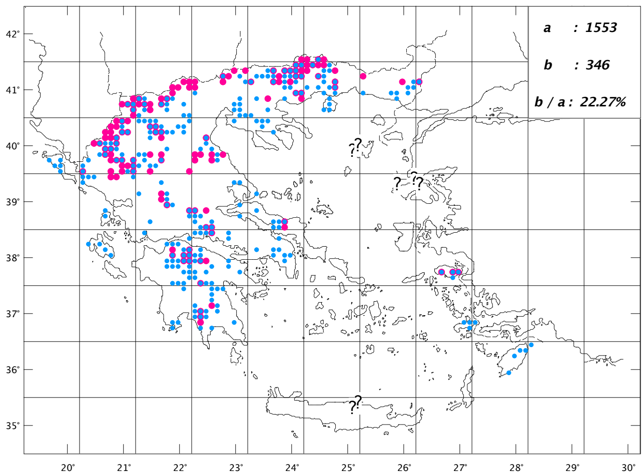


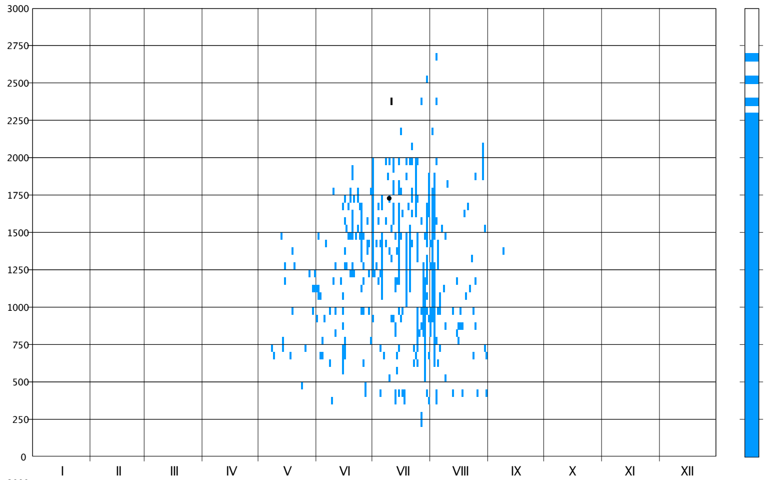


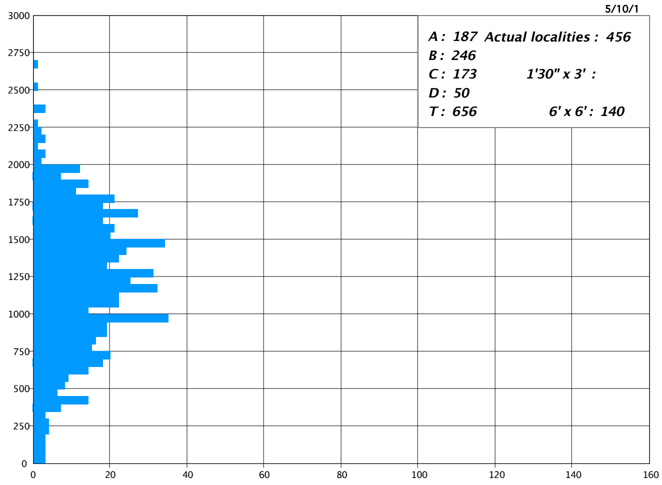


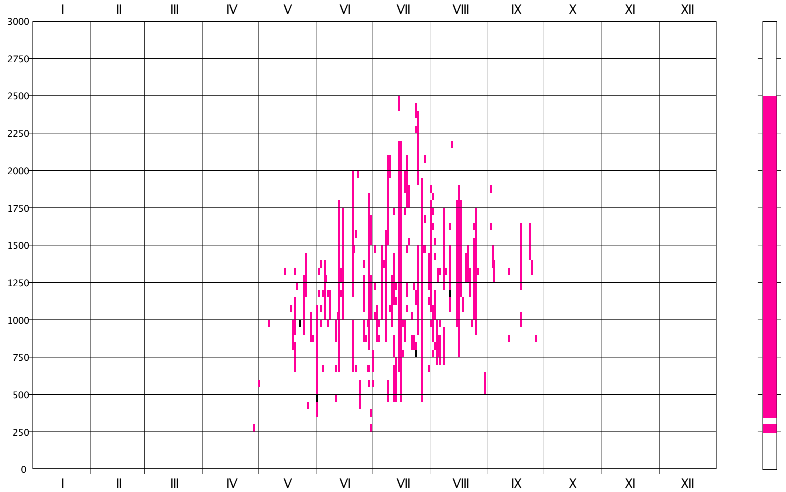
LYCAENIDAE *Polyommatus thersites*

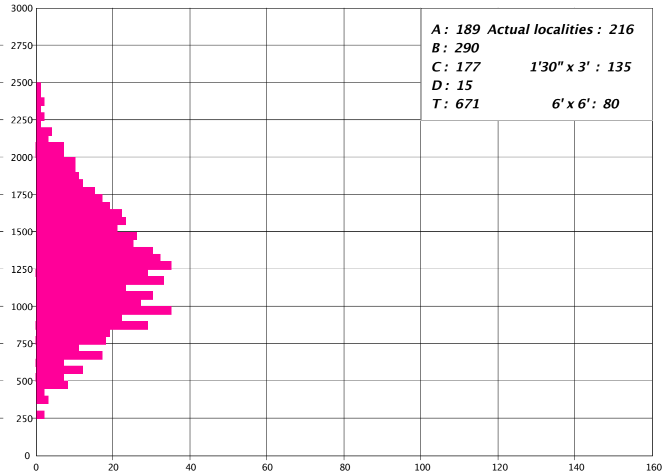


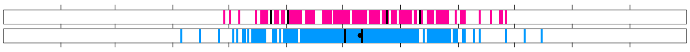




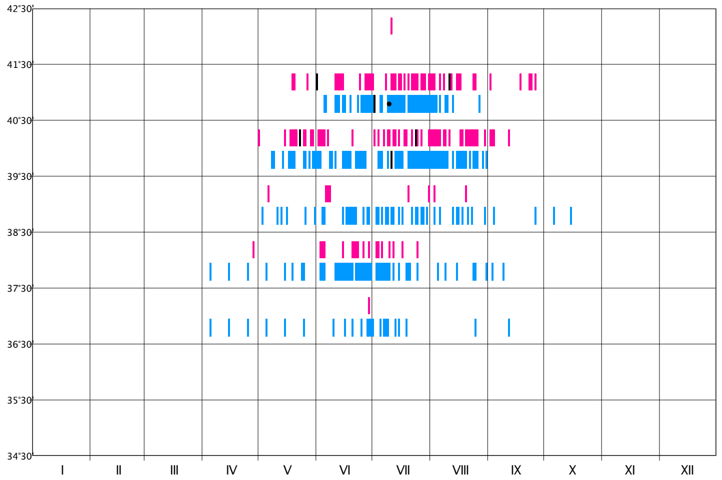


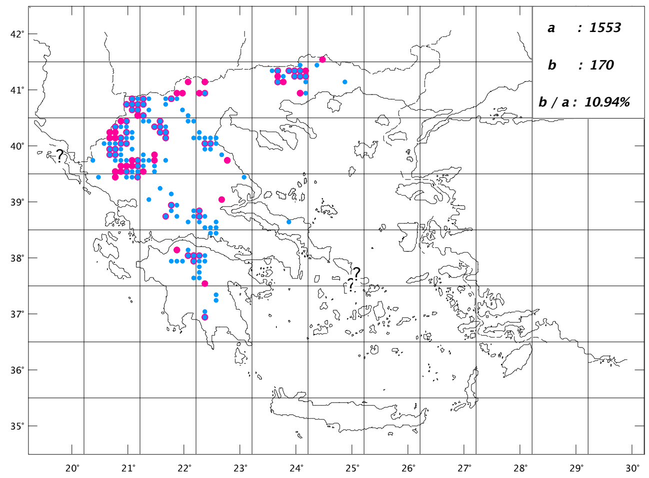


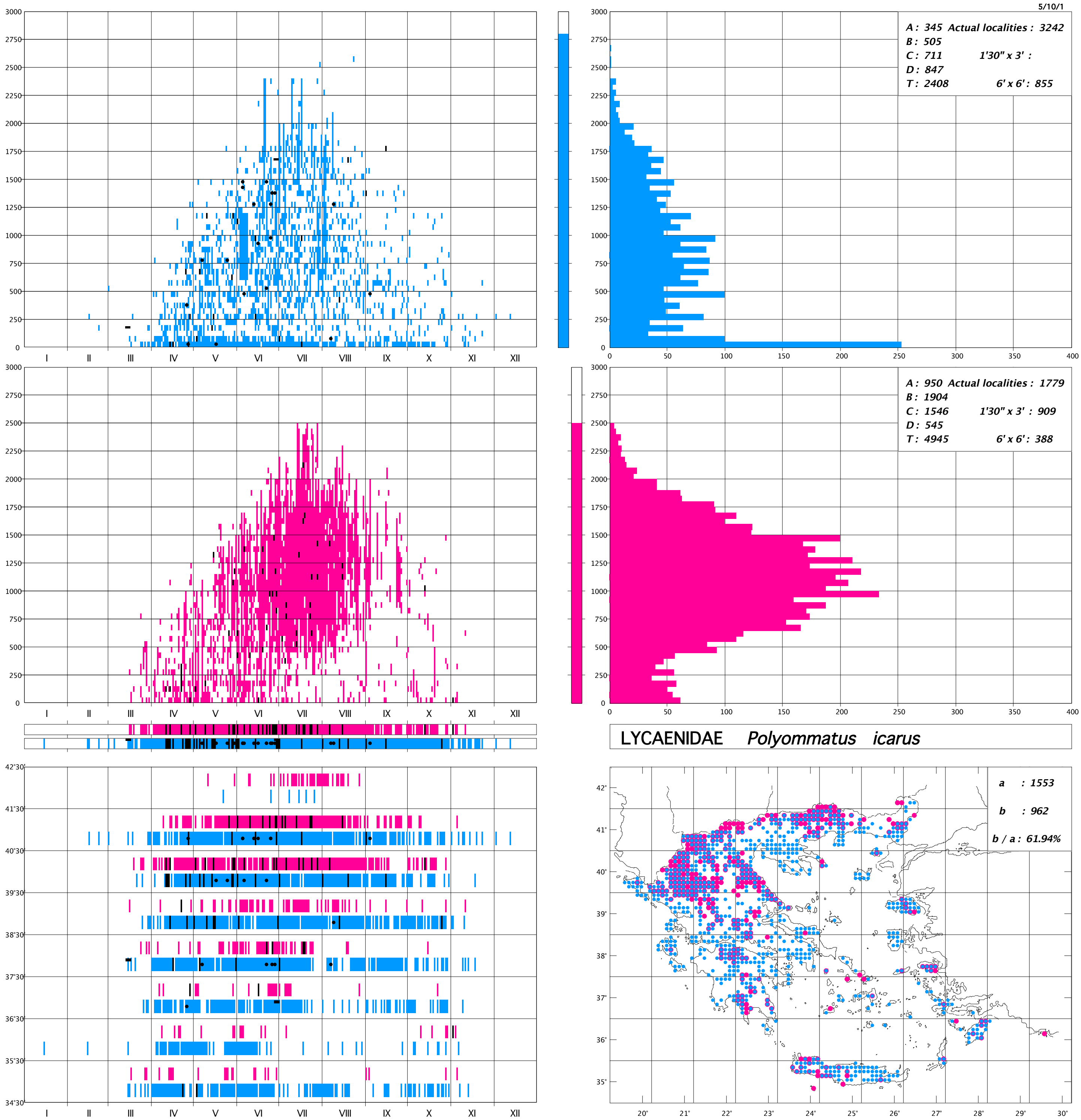




LYCAENIDAE *Polyommatus dorylas*

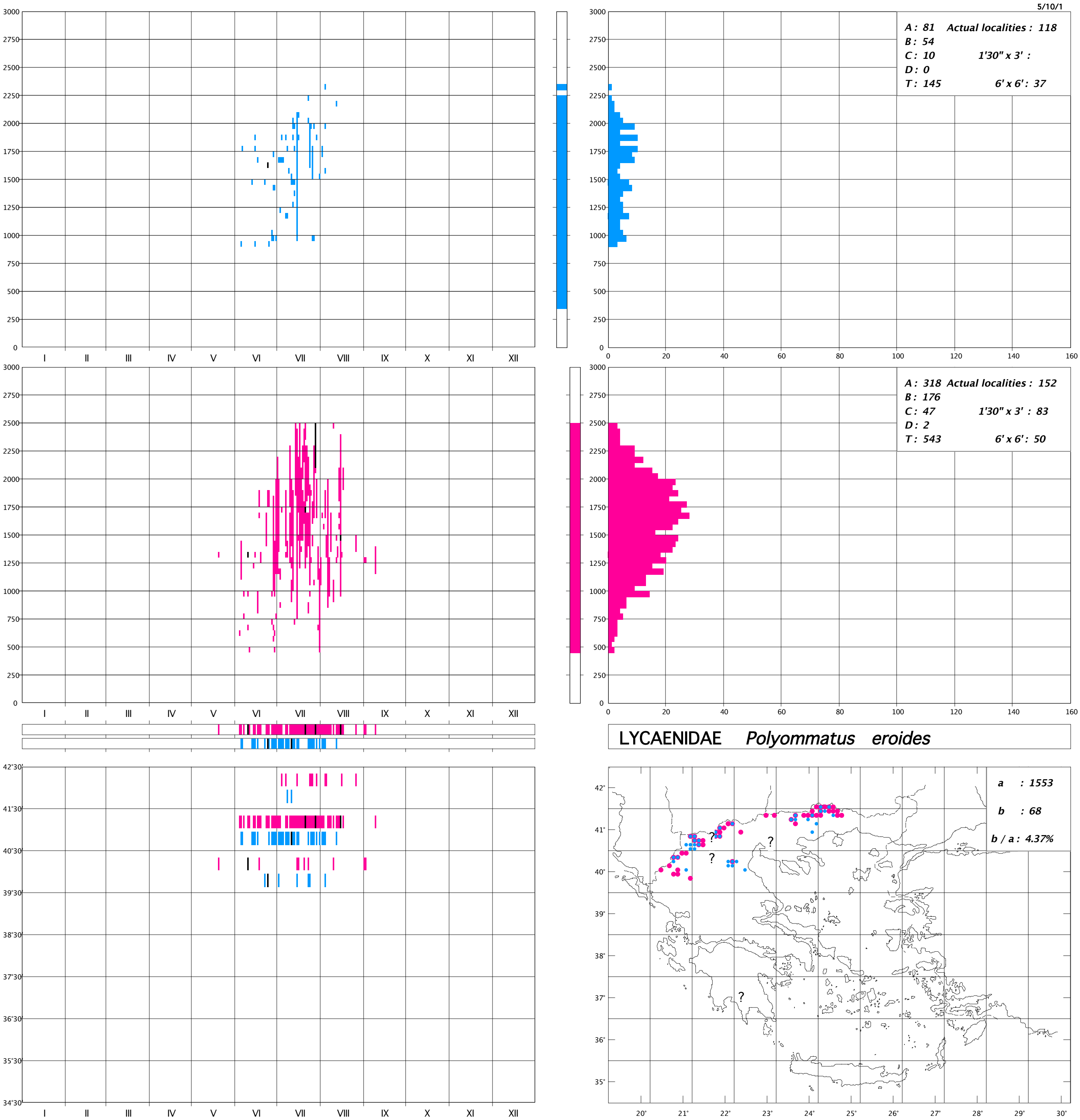






Polyommatus icarus and *Polyommatus andronicus* are synonymized by some authors

Τα είδη *Polyommatus icarus* και *Polyommatus andronicus* θεωρούνται συνώνυμα από ωρισμένους συγγραφείς



Polyommatus eroides and *Polyommatus menelaos* are synonymized by some authors

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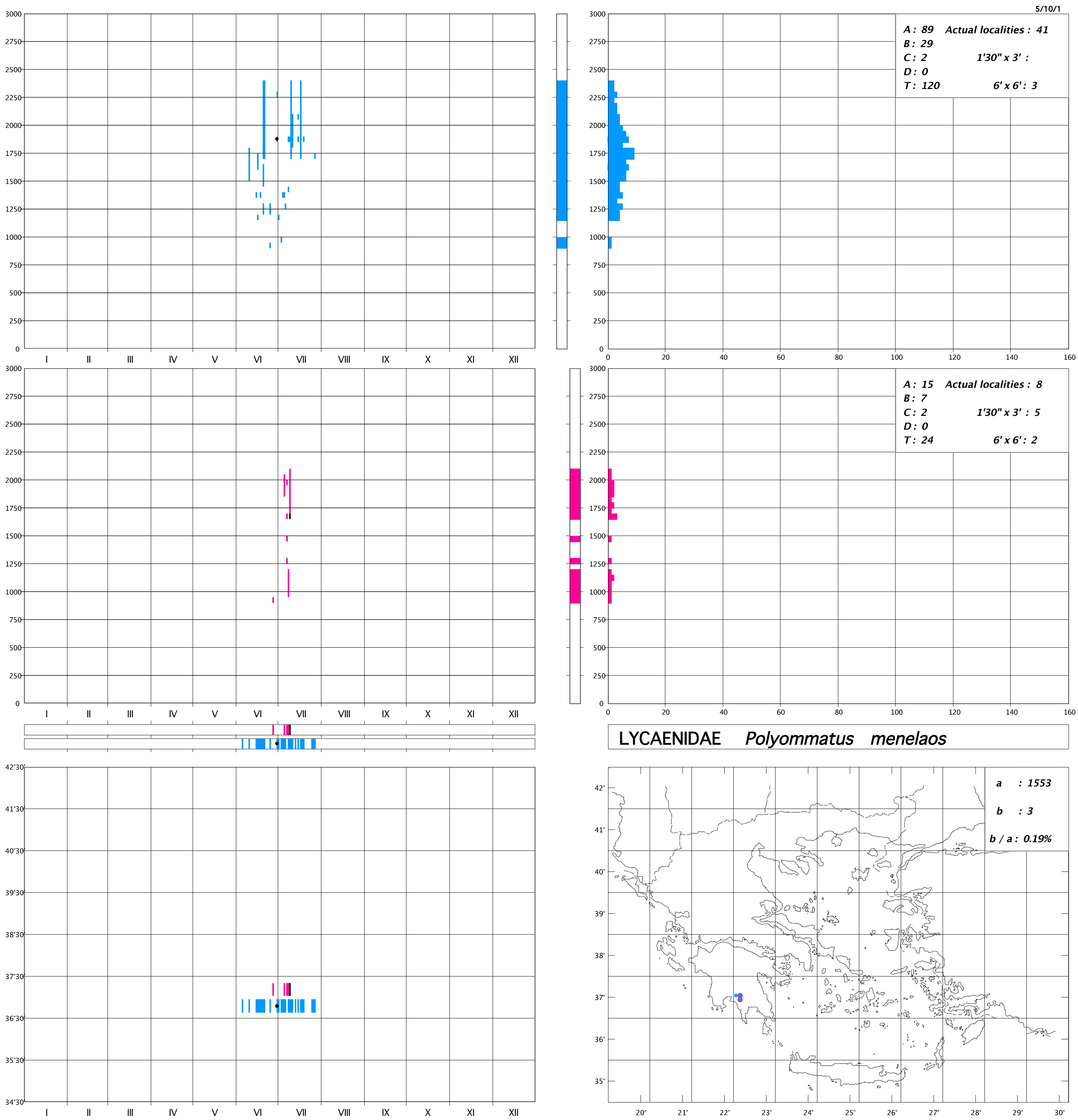

Polyommatus eroides and *Polyommatus menelaos* are synonymized by some authors
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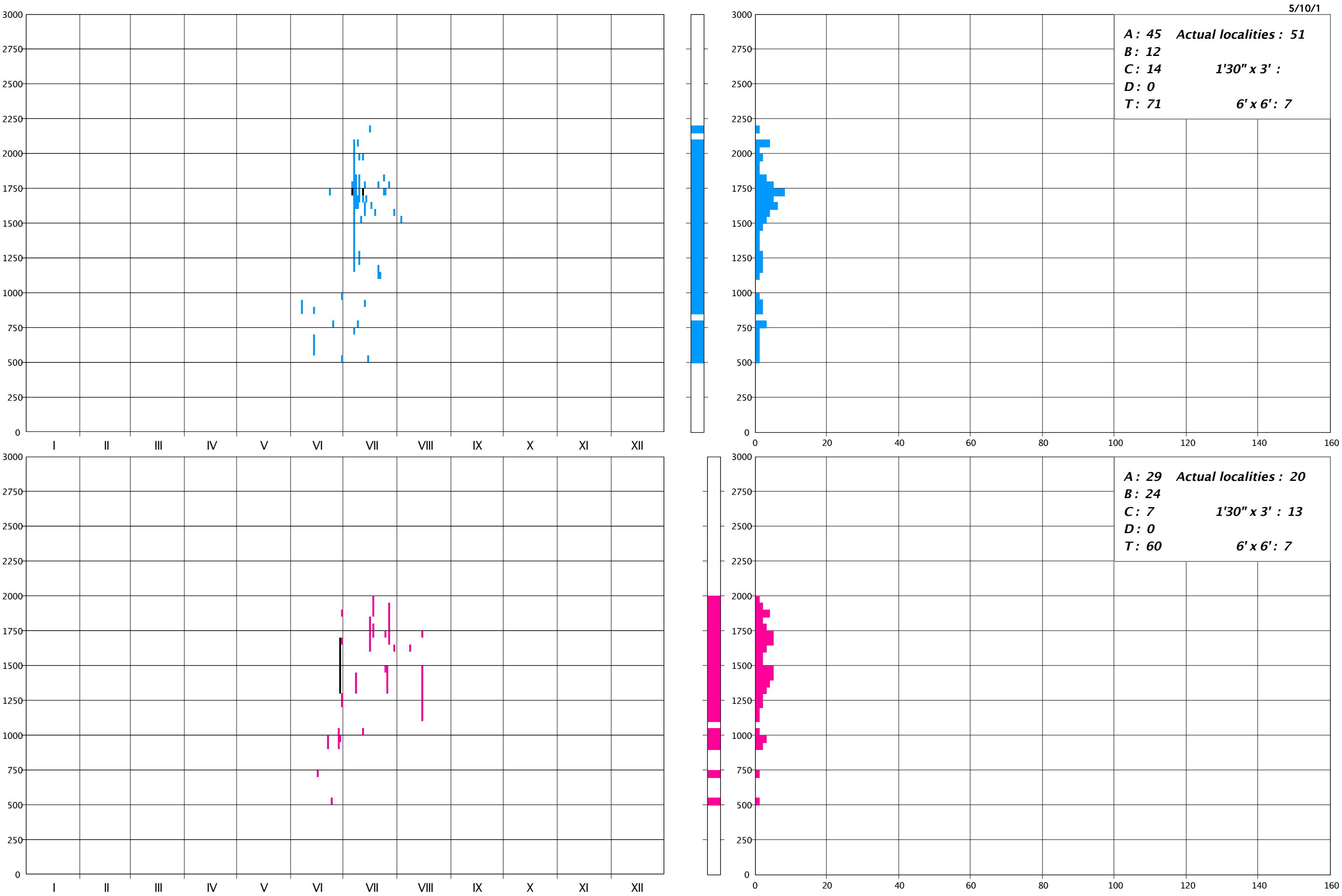
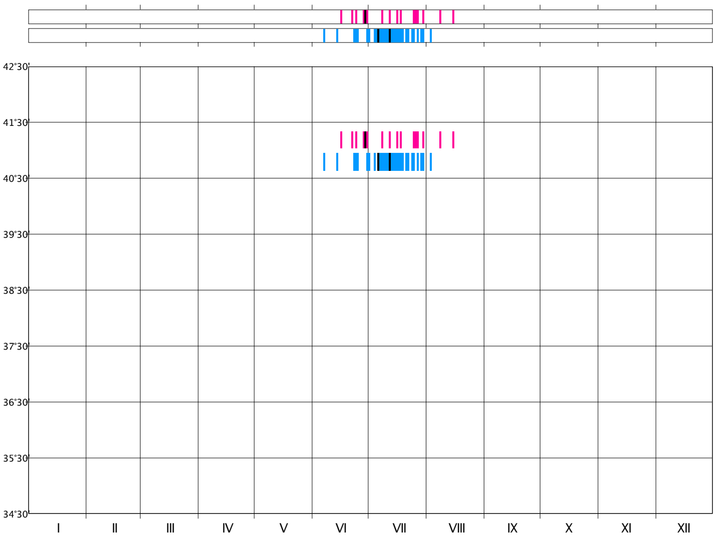
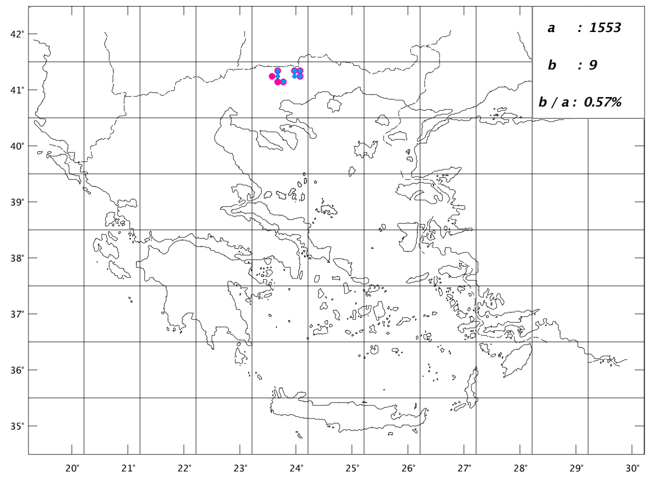


LYCAENIDAE *Polyommatus andronicus*





Polyommatus icarus and *Polyommatus andronicus* are synonymized by some authors
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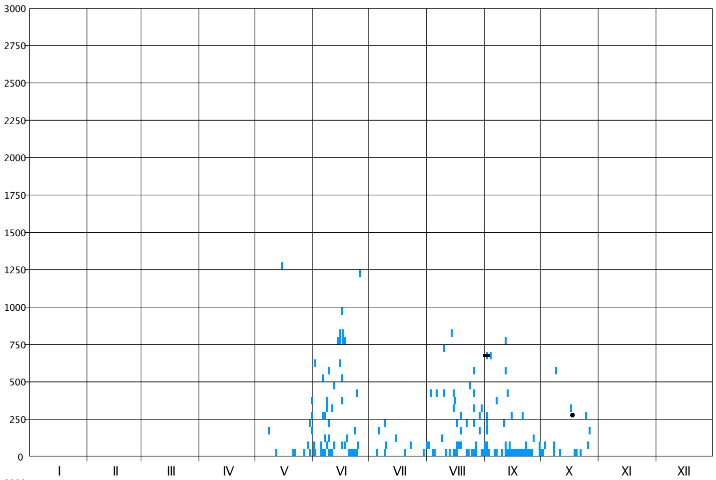
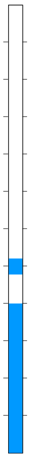
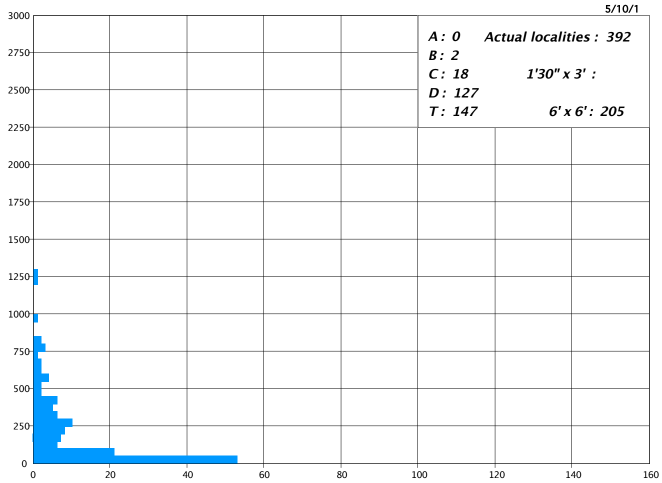
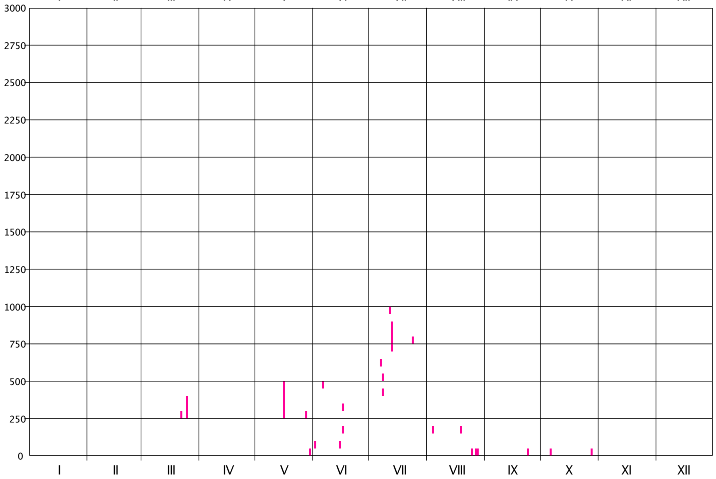
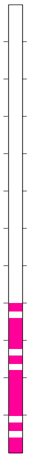
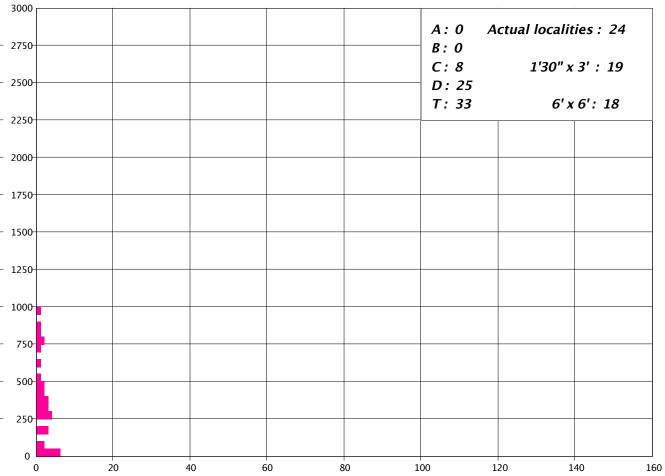


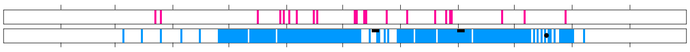




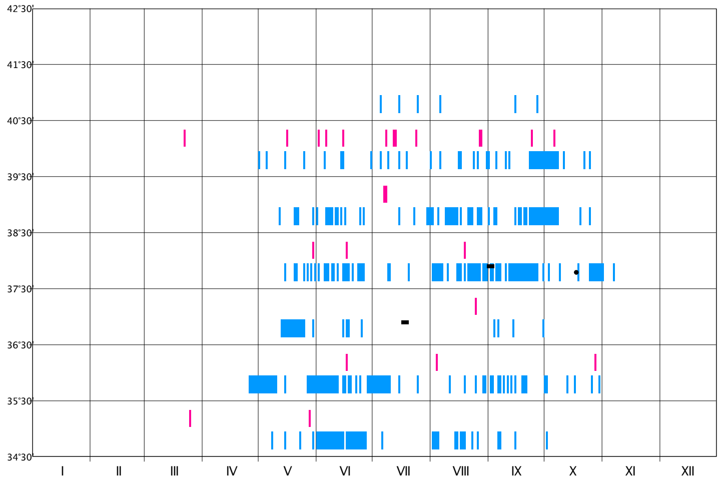


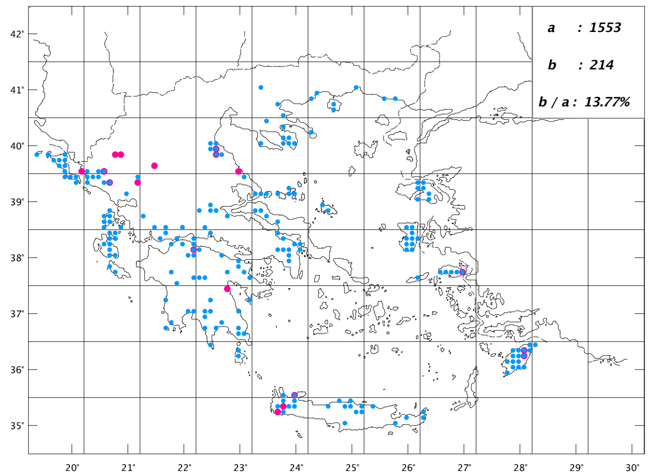


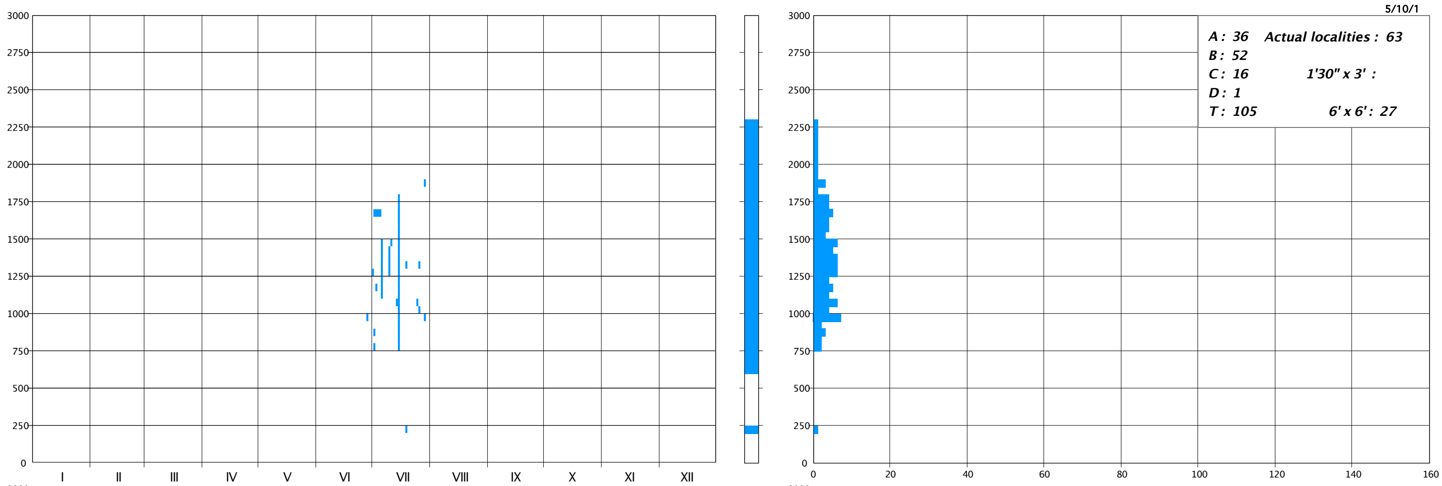


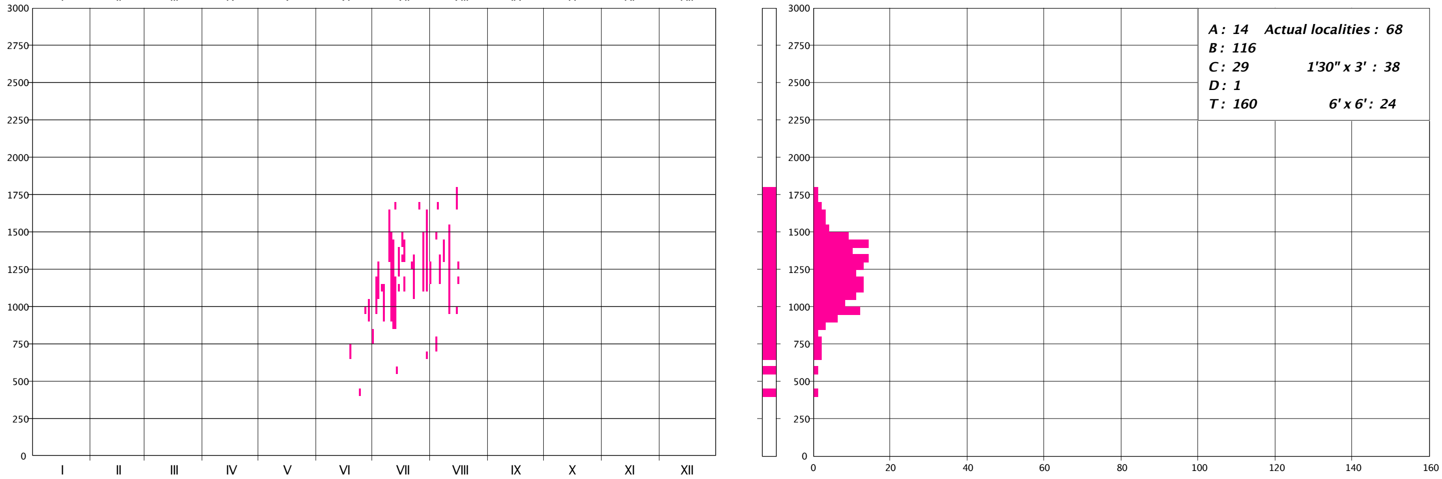


NYMPHALIDAE *Charaxes jasius*

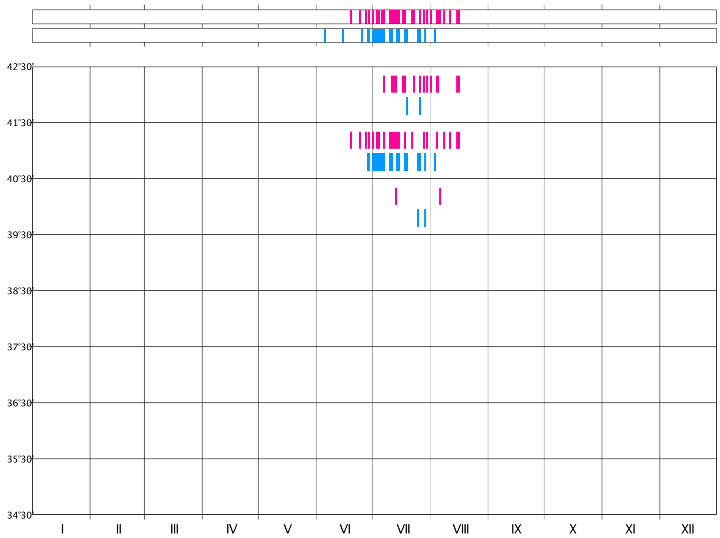


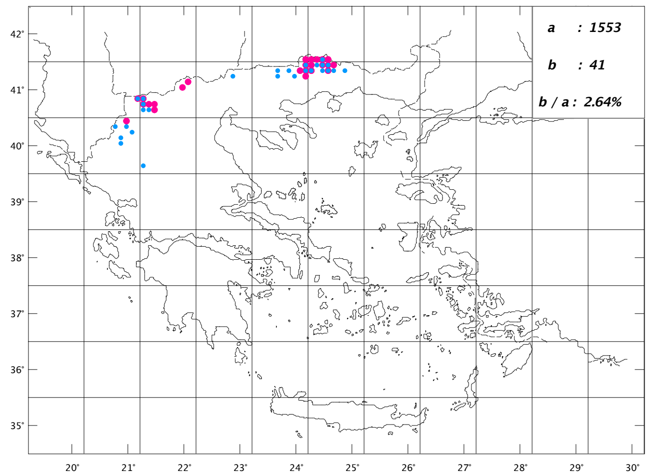


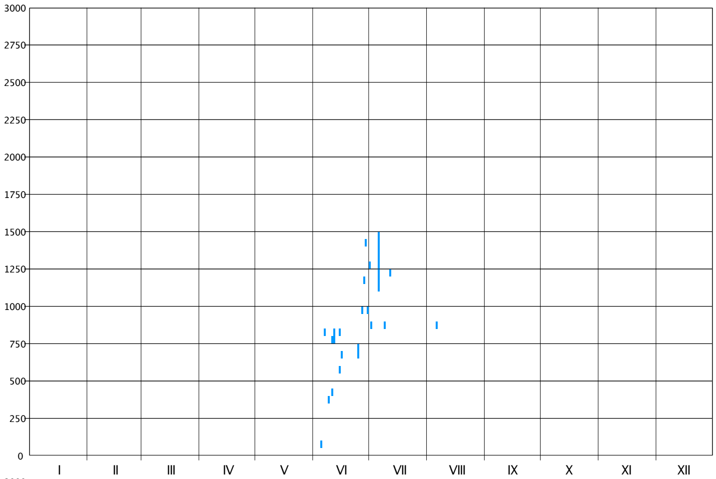


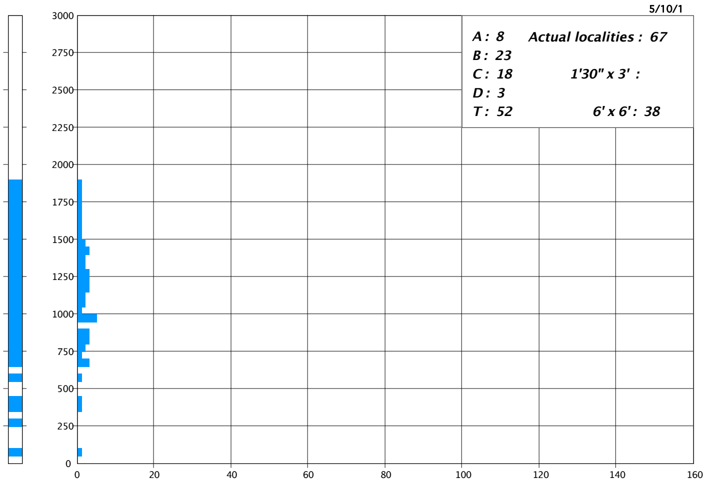


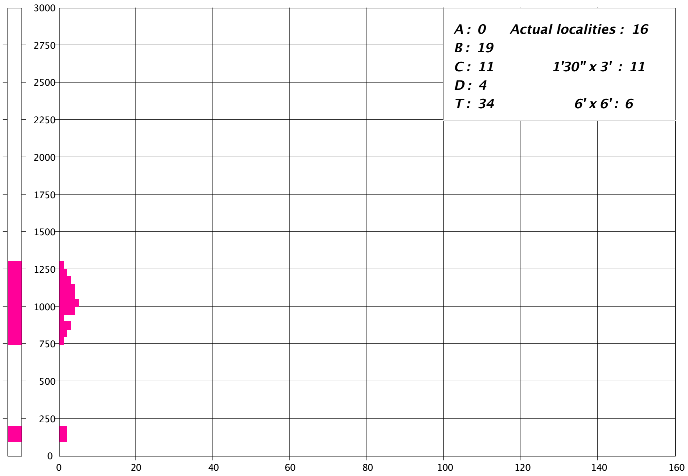
NYMPHALIDAE *Apatura iris*

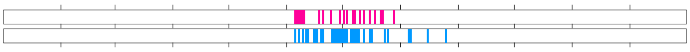




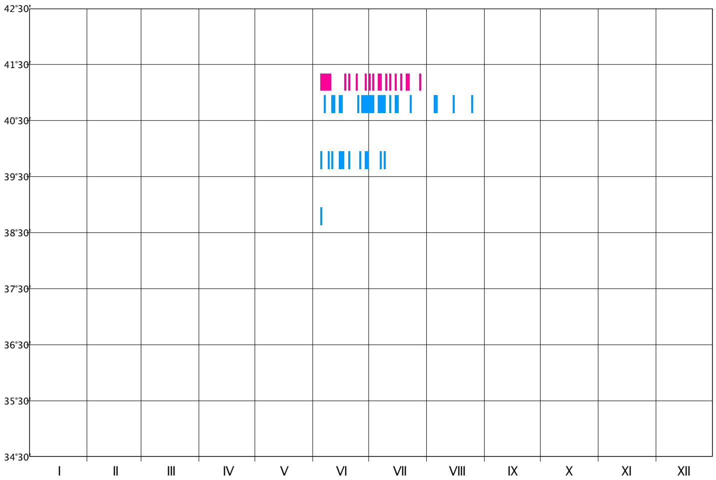


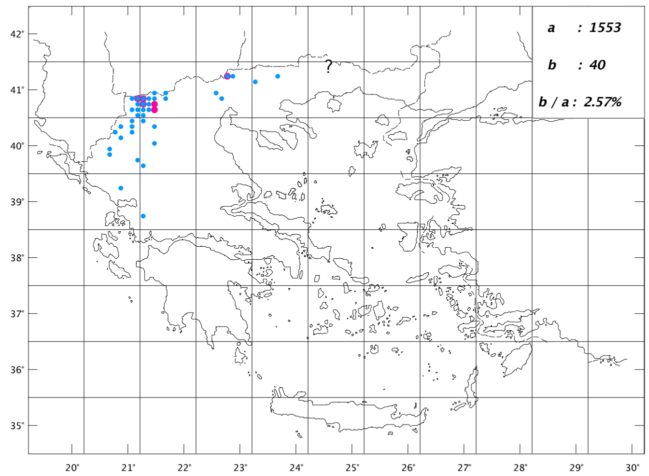


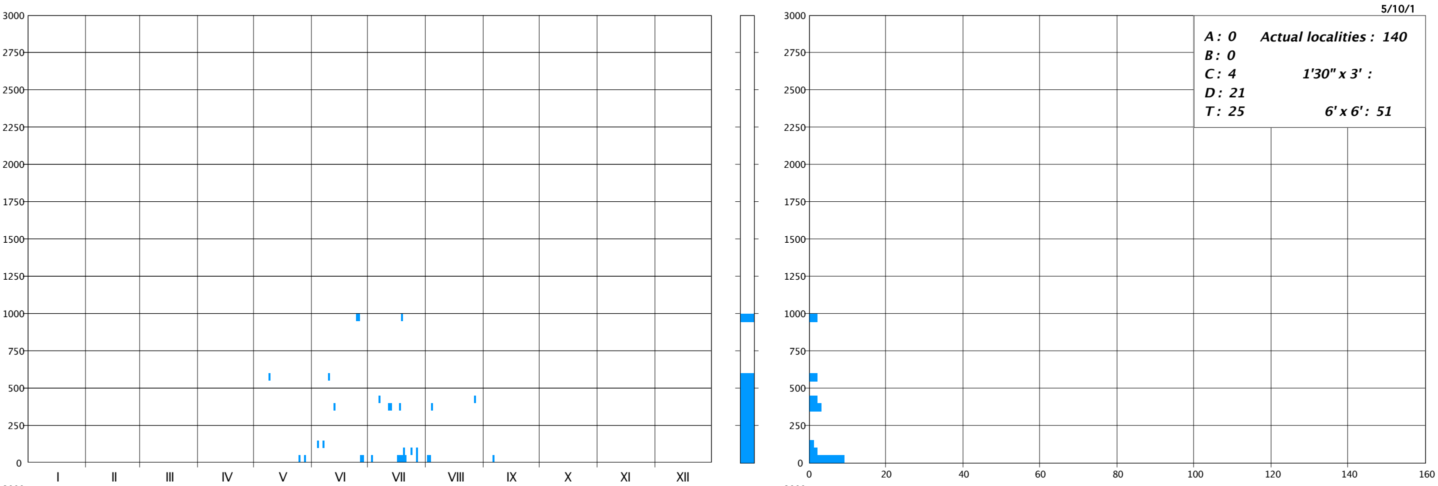


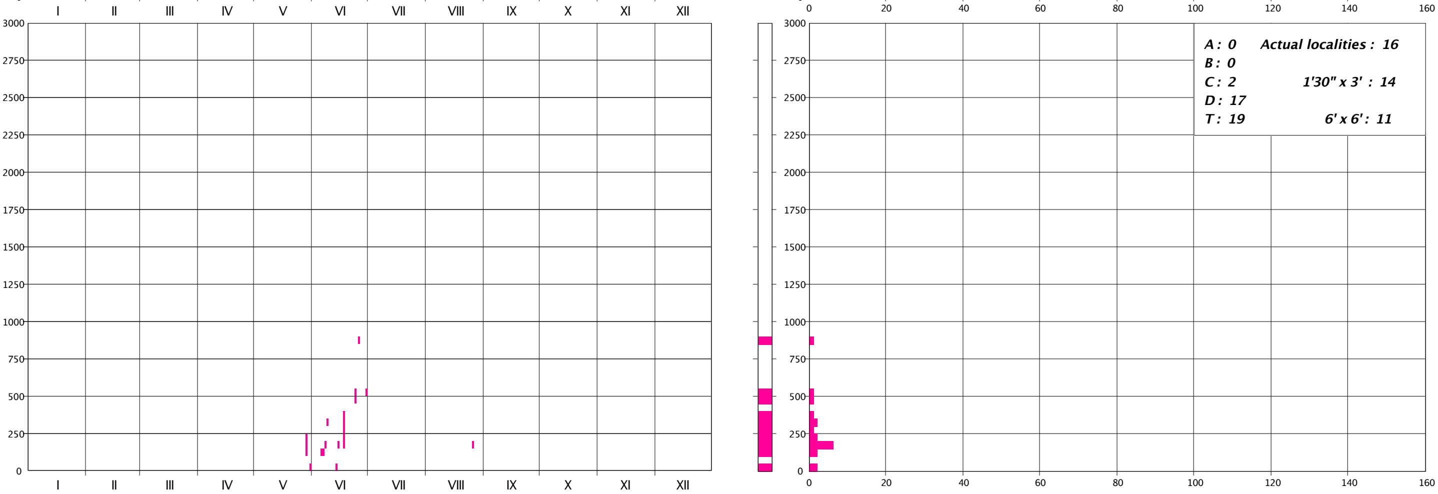


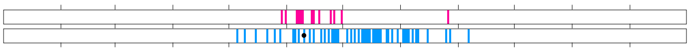
NYMPHALIDAE *Apatura ilia*



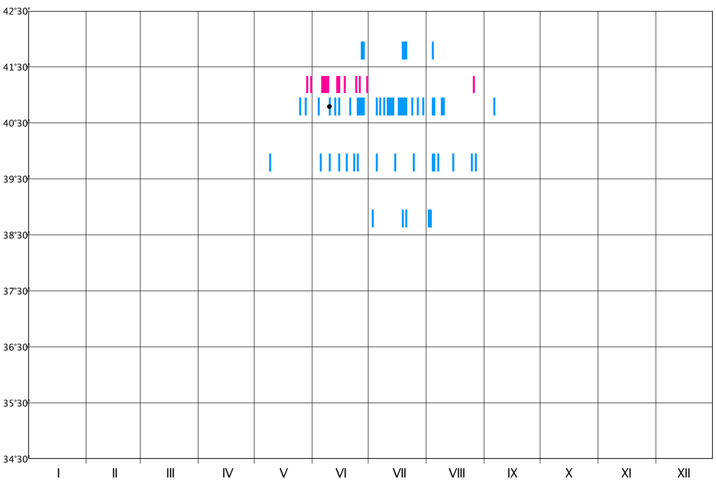


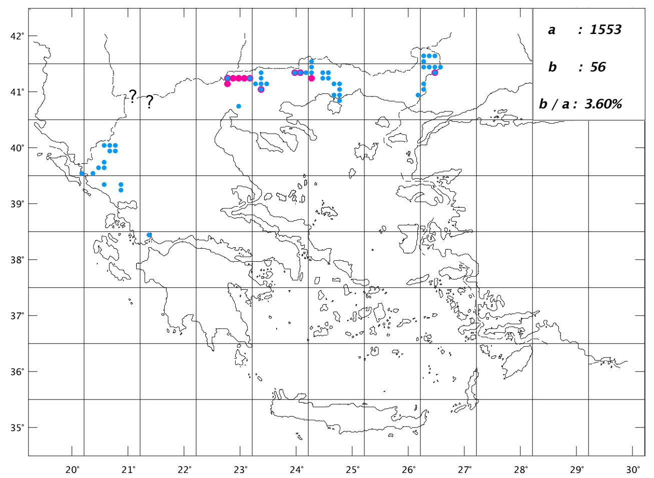


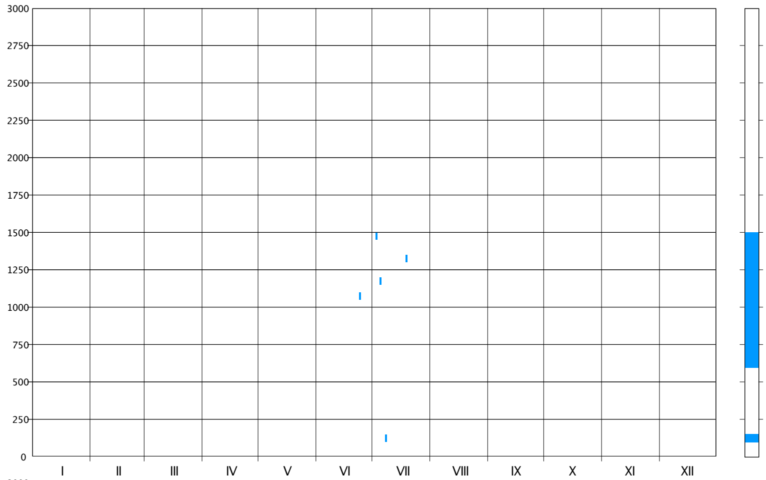


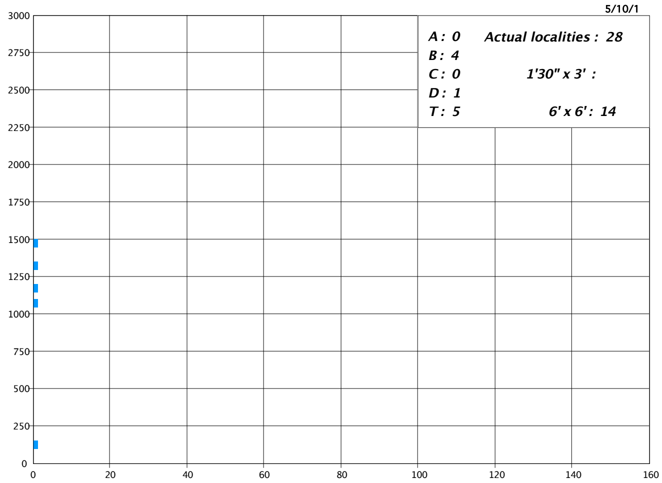


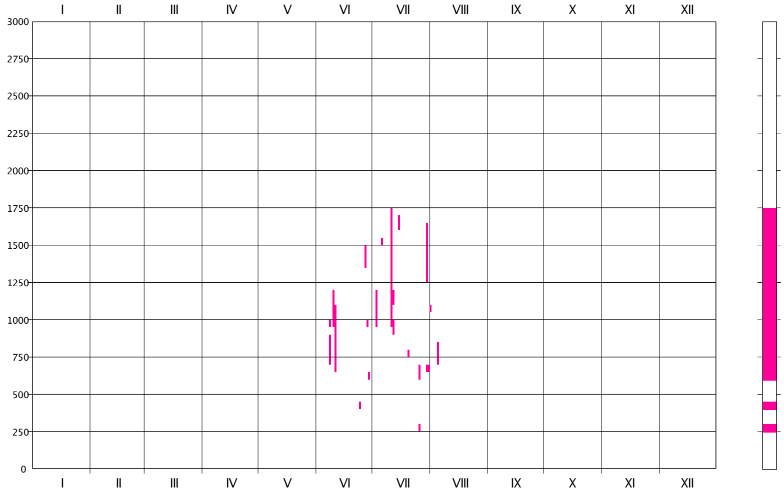
NYMPHALIDAE *Apatura metis*

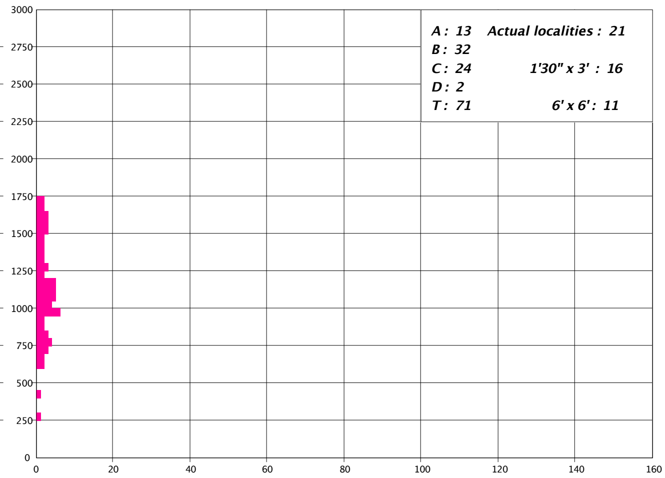




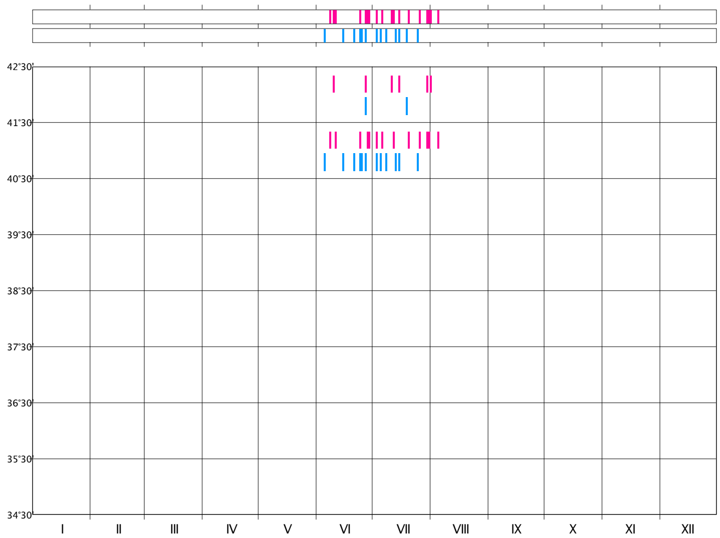


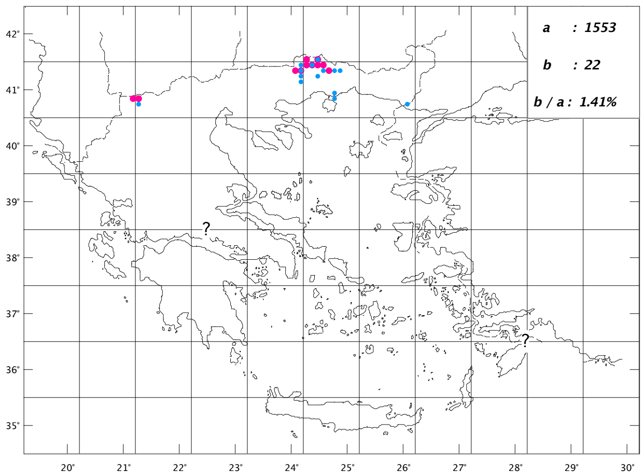


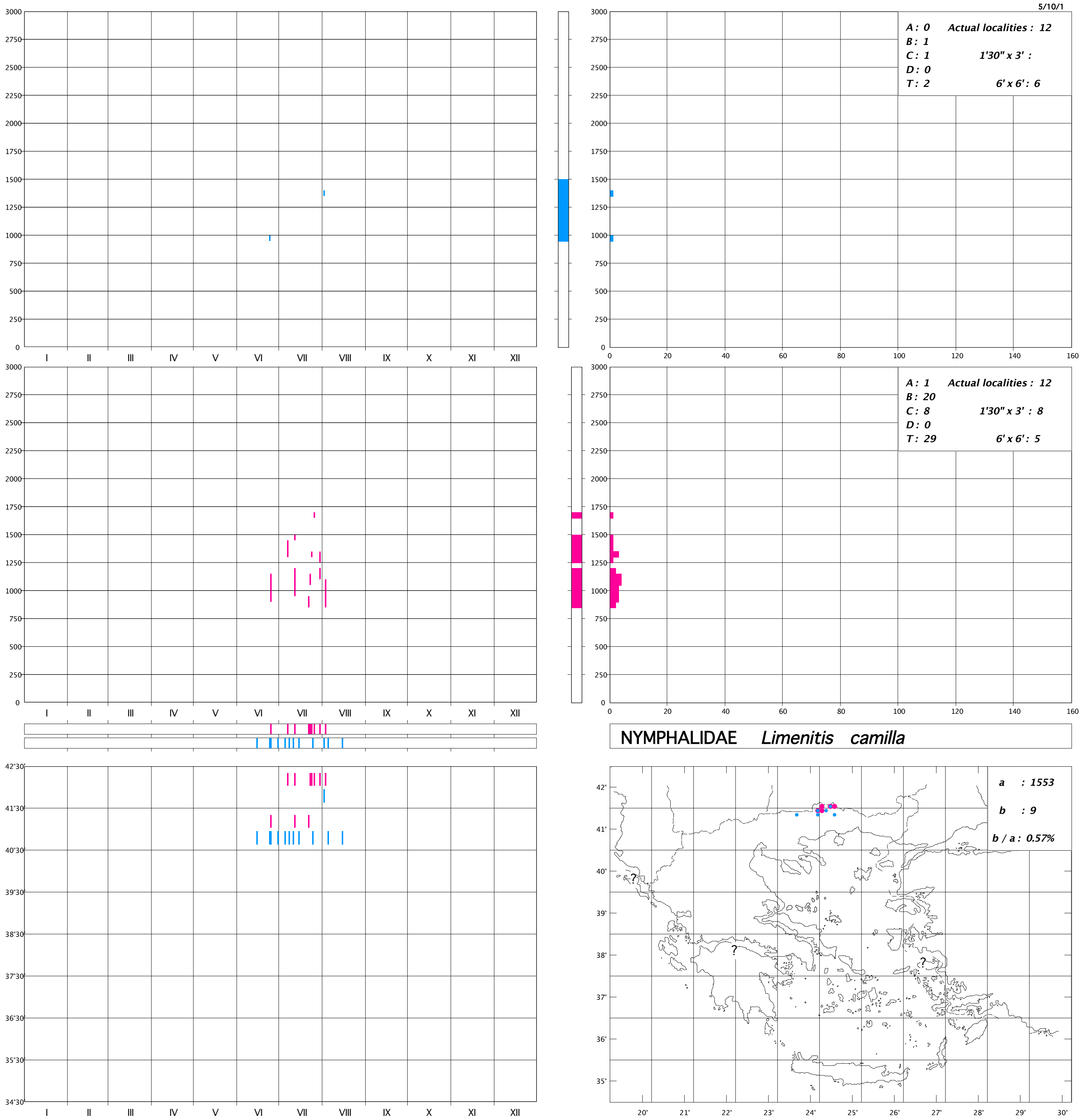




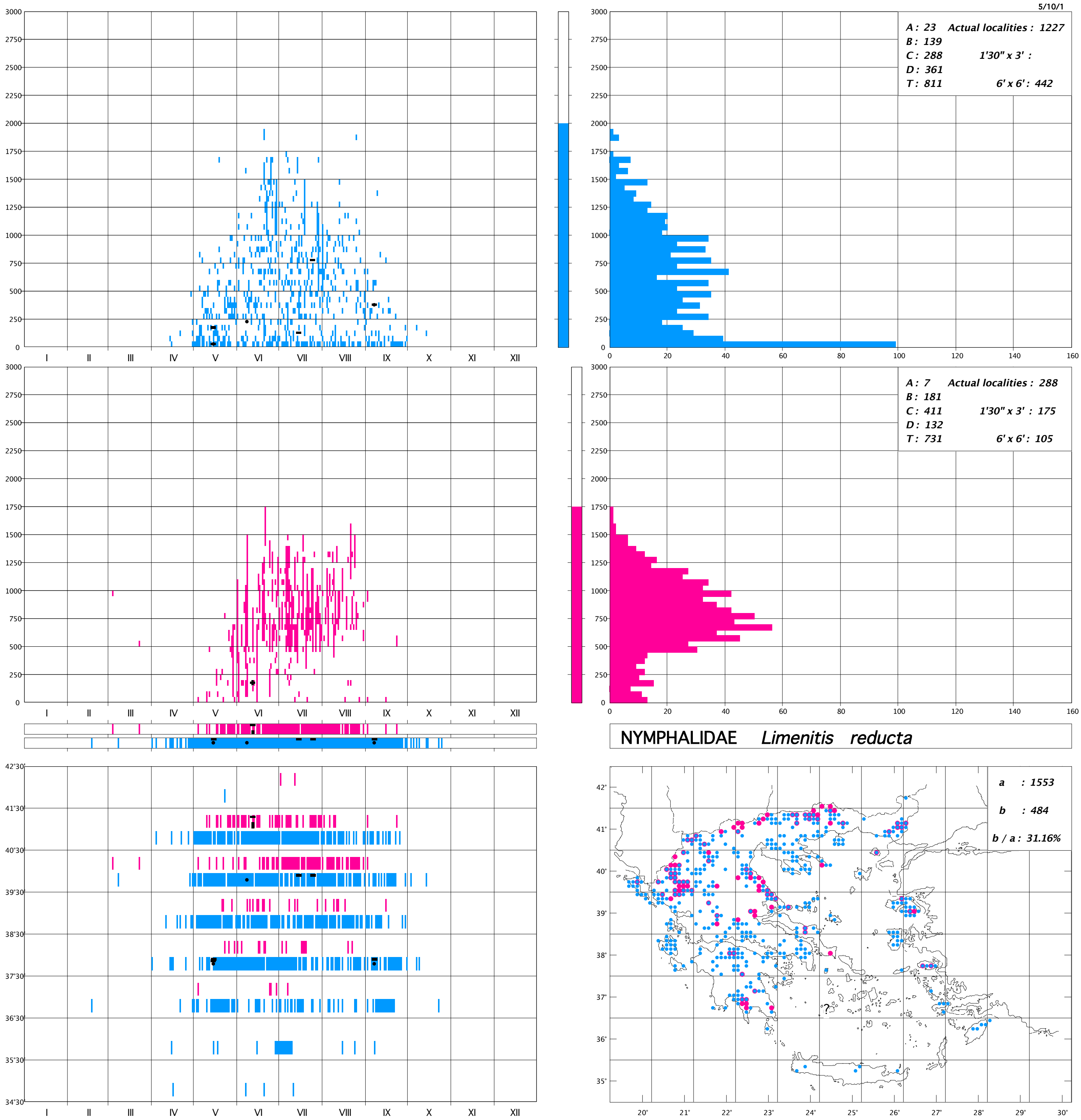
NYMPHALIDAE *Limenitis populi*

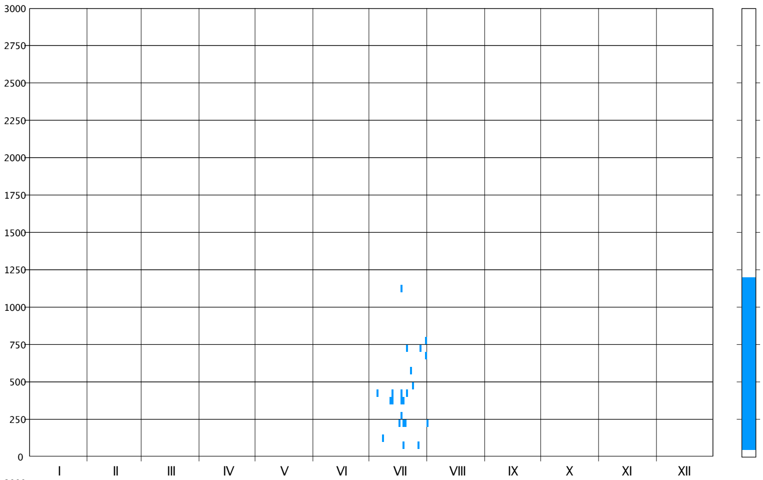


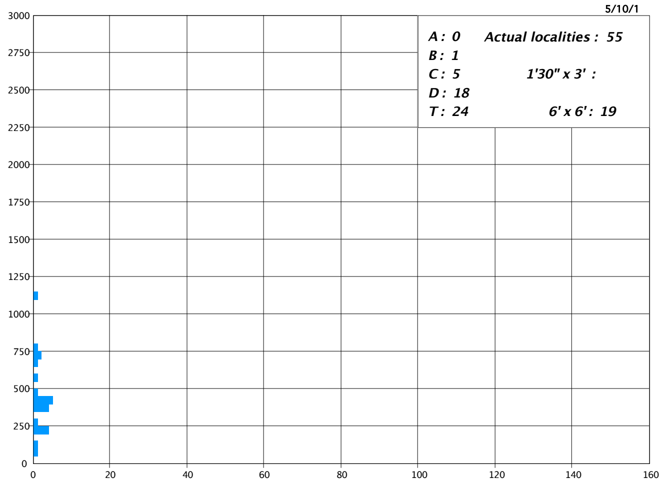


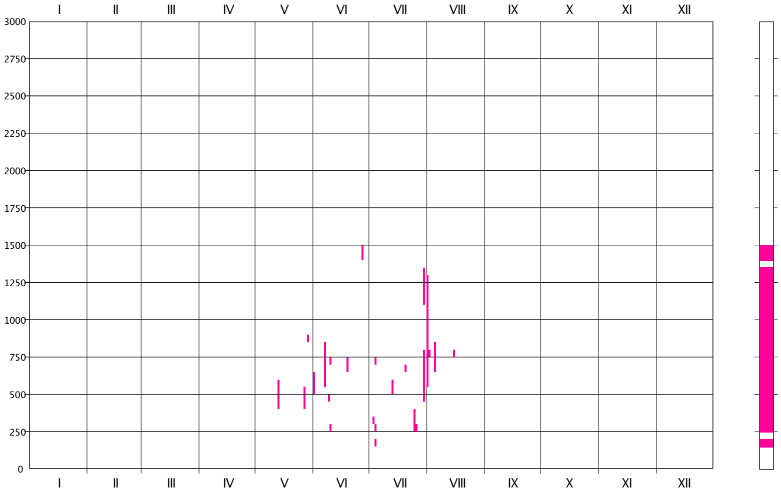

5/10/1
A : 0 Actual localities : 12
B : 1
C : 1 1'30" x 3' :
D : 0
T : 2 6' x 6' : 6
A : 1 Actual localities : 12
B : 20
C : 8 1'30" x 3' : 8
D : 0
T : 29 6' x 6' : 5
NYMPHALIDAE Limenitis camilla
a : 1553
b : 9
b / a : 0.57%

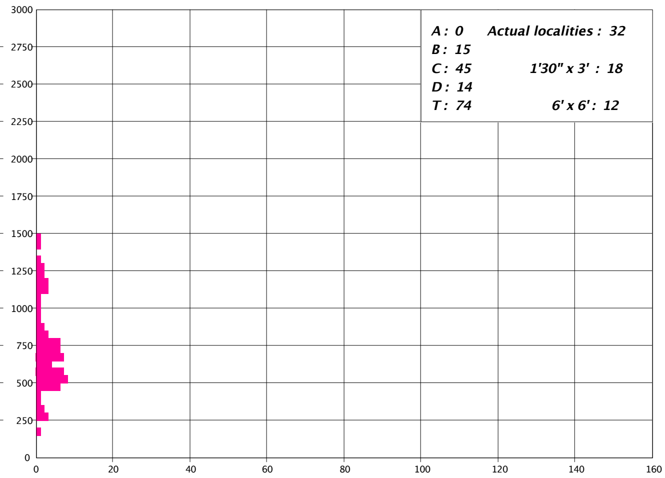
NYMPHALIDAE *Limenitis reducta*

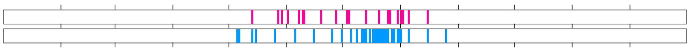




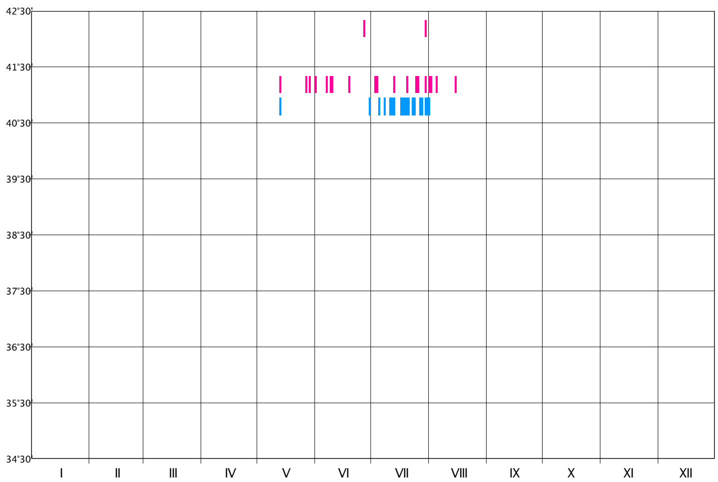


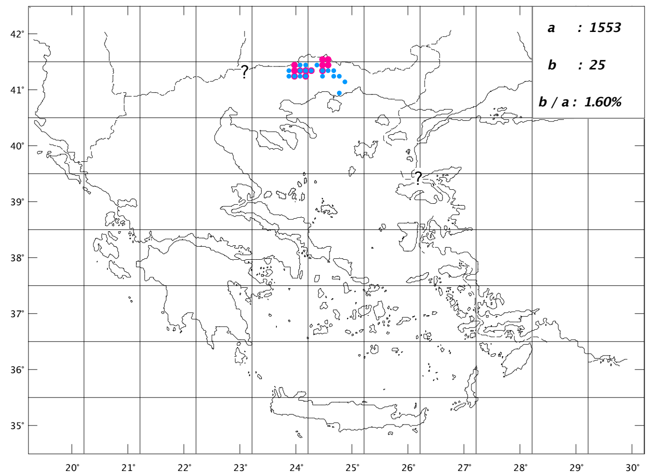


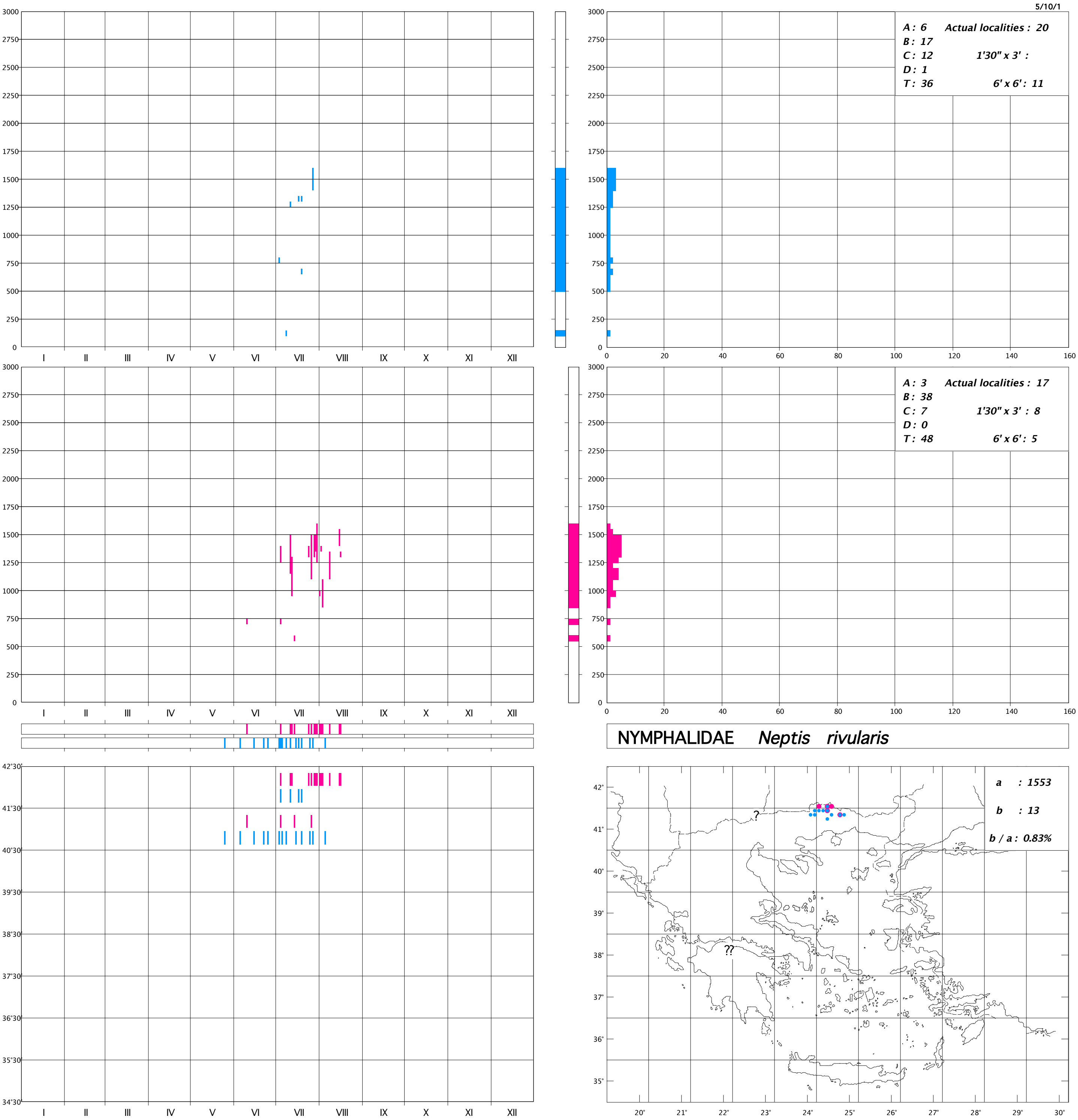




NYMPHALIDAE *Neptis sappho*







NYMPHALIDAE *Neptis rivularis*

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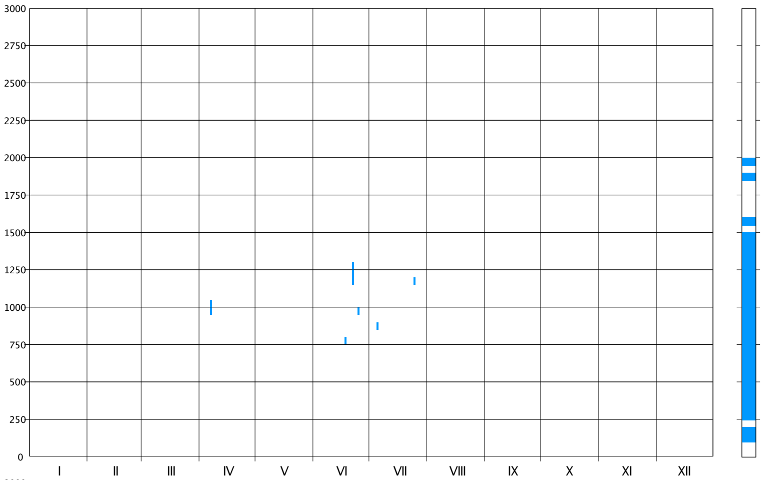
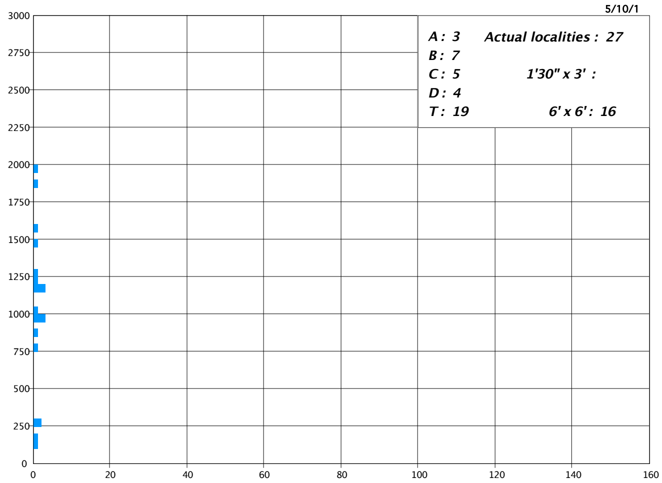
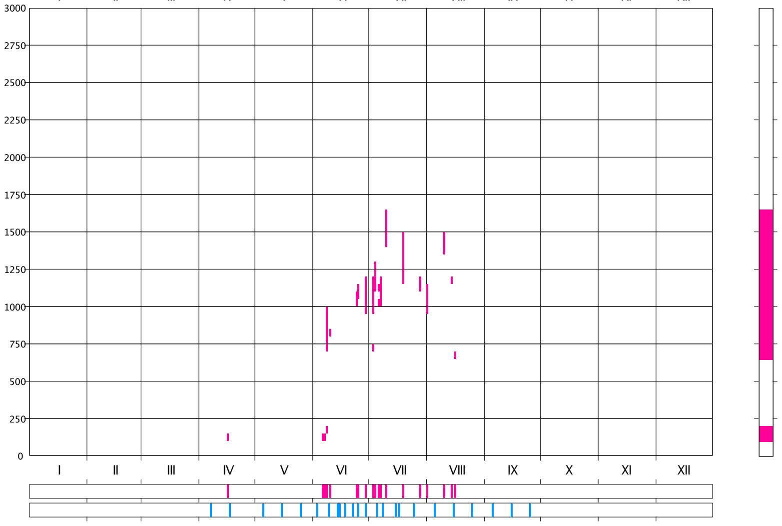
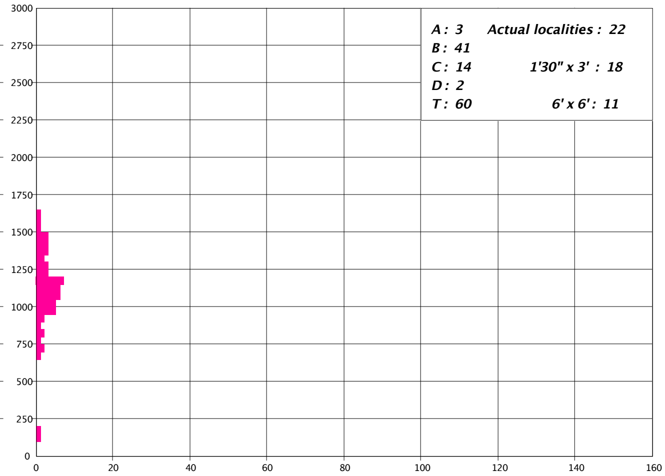
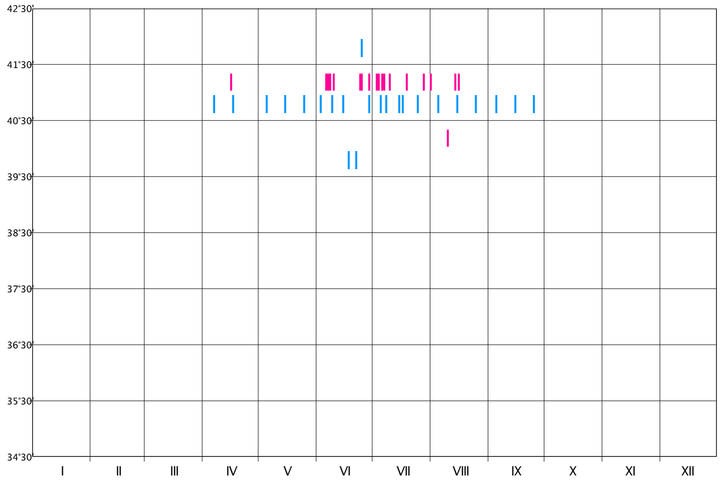


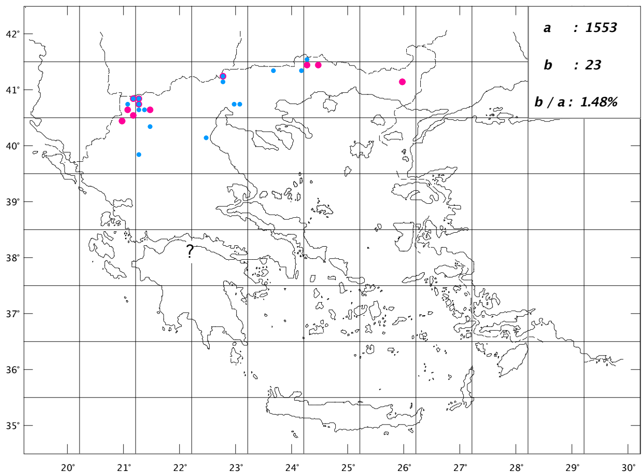


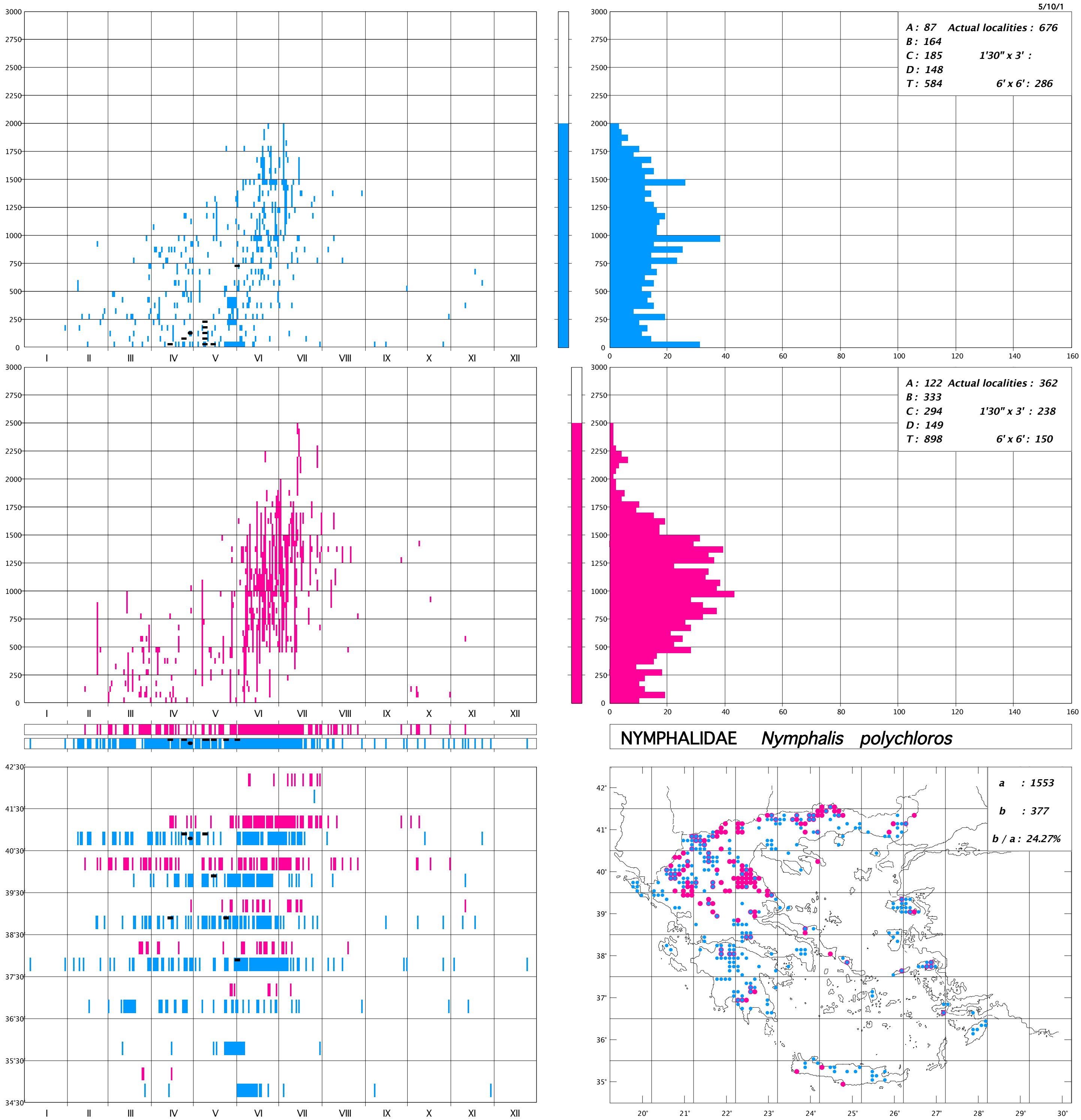




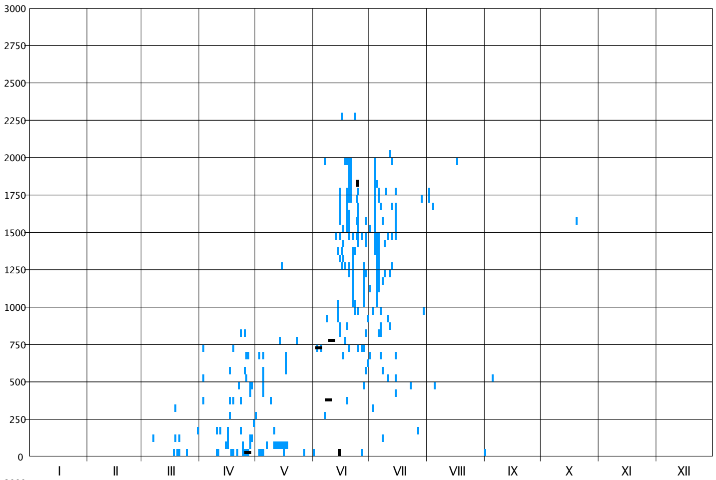
NYMPHALIDAE *Nymphalis xanthomelas*

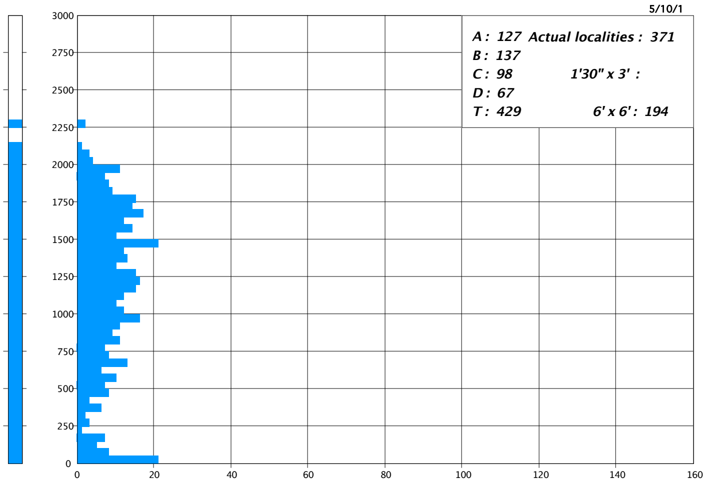


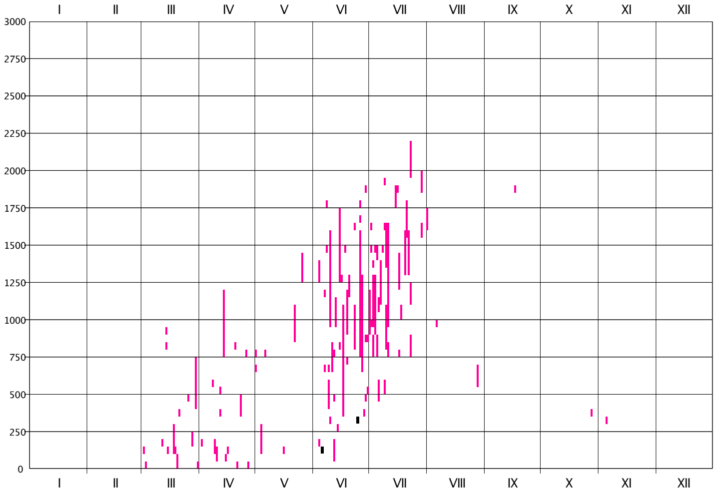


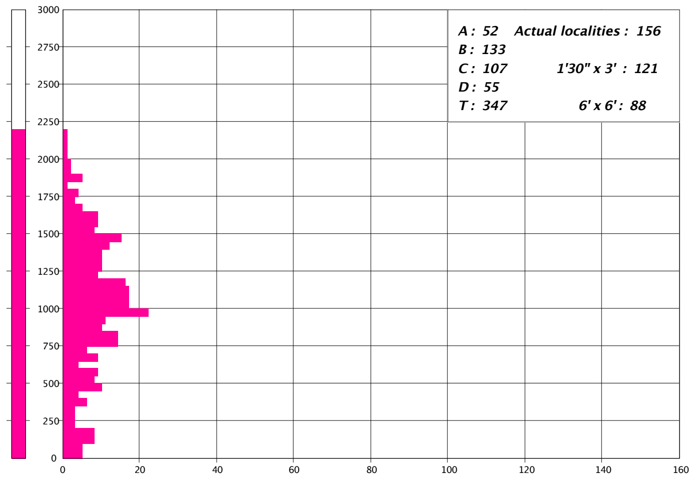


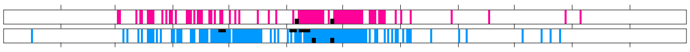
NYMPHALIDAE *Nymphalis polychloros*



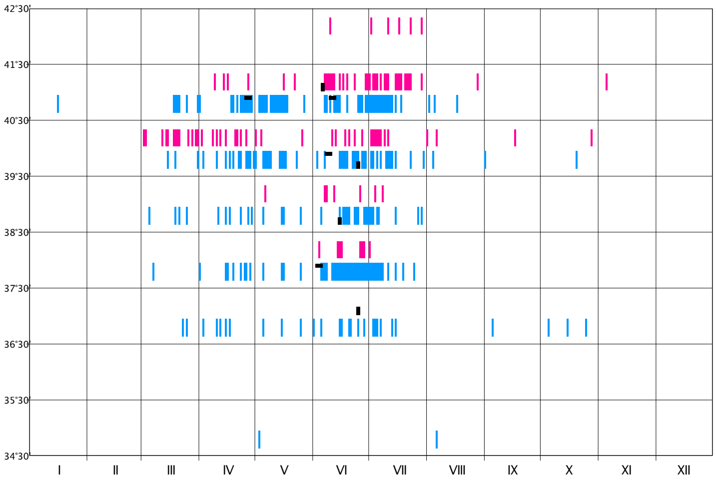


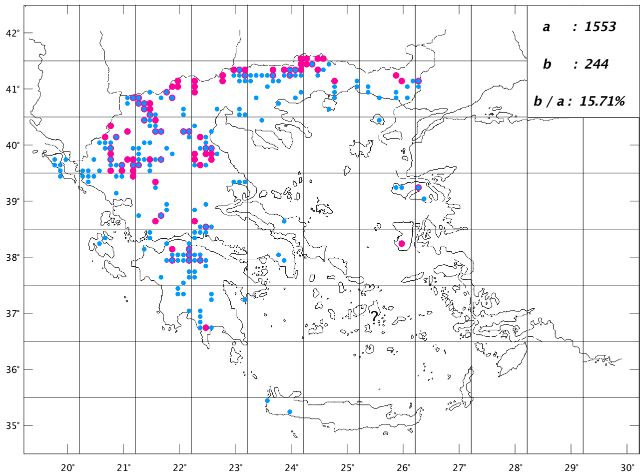


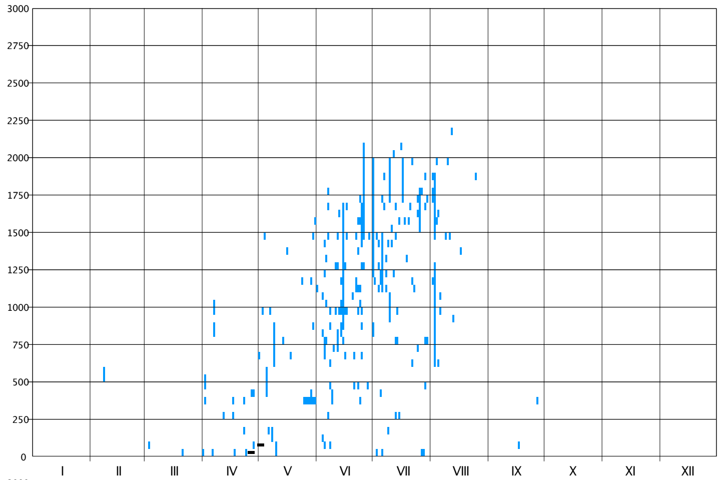


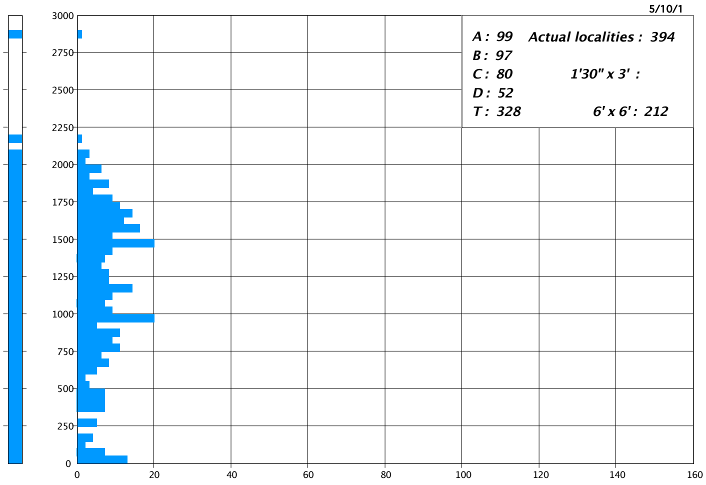


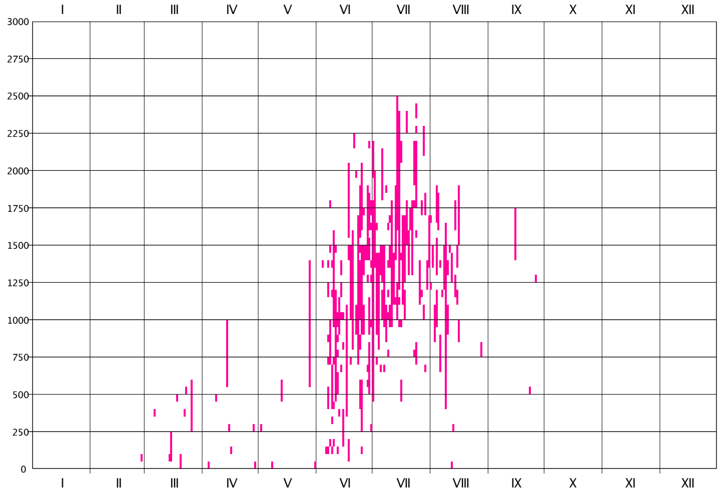
NYMPHALIDAE *Nymphalis antiopa*

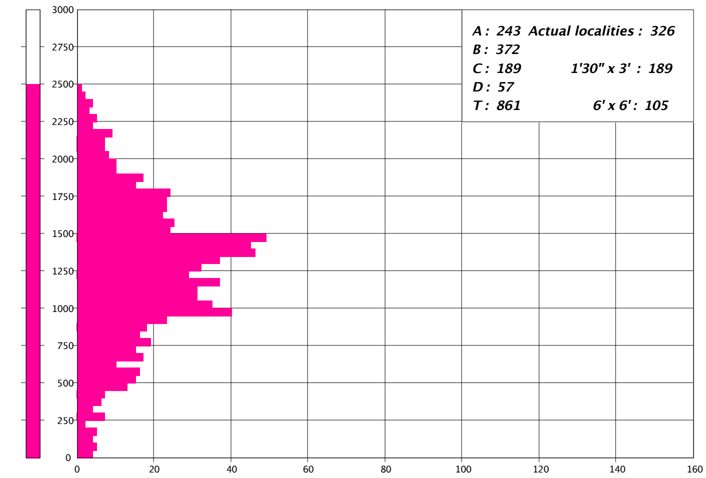


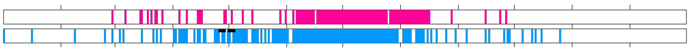




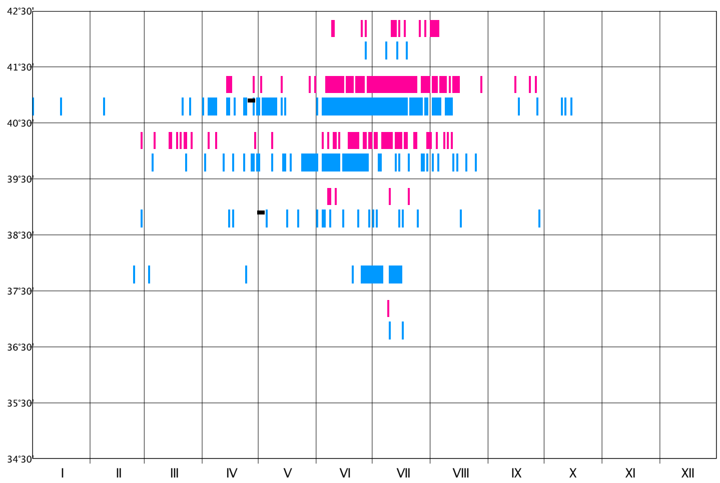


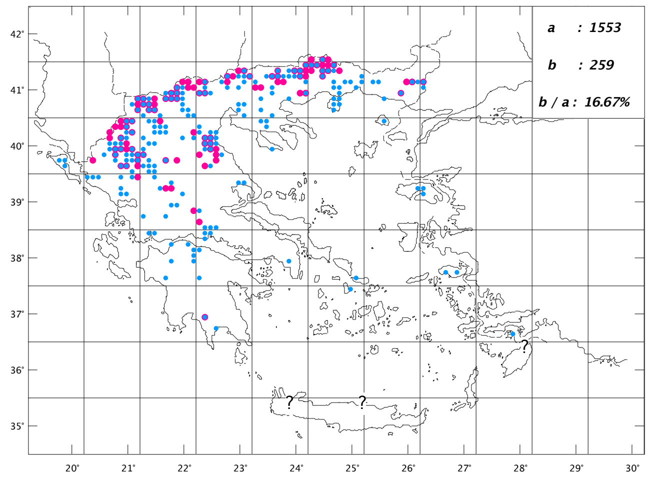






NYMPHALIDAE *Inachis io*





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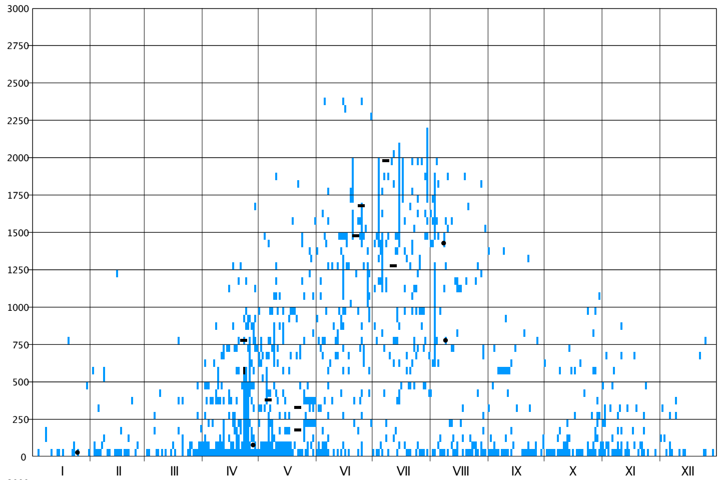
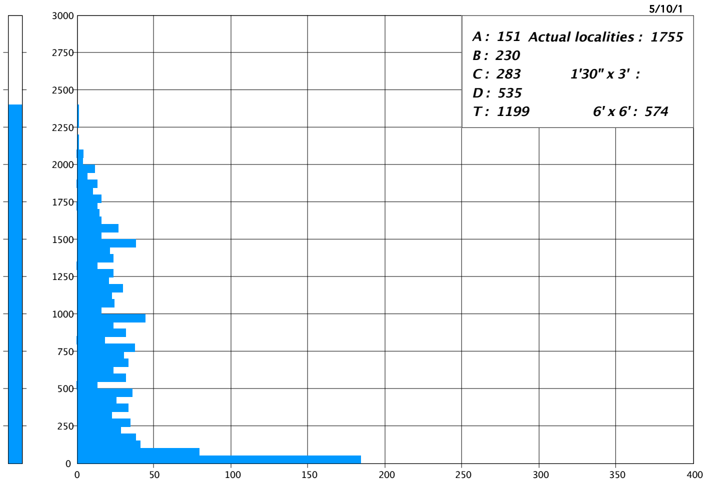
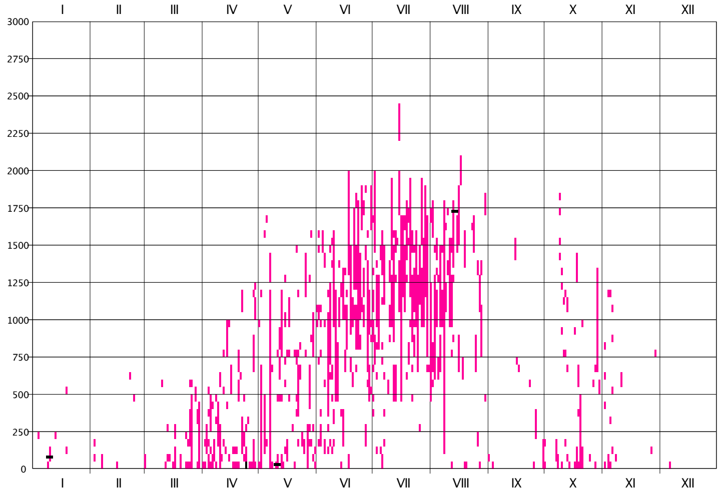
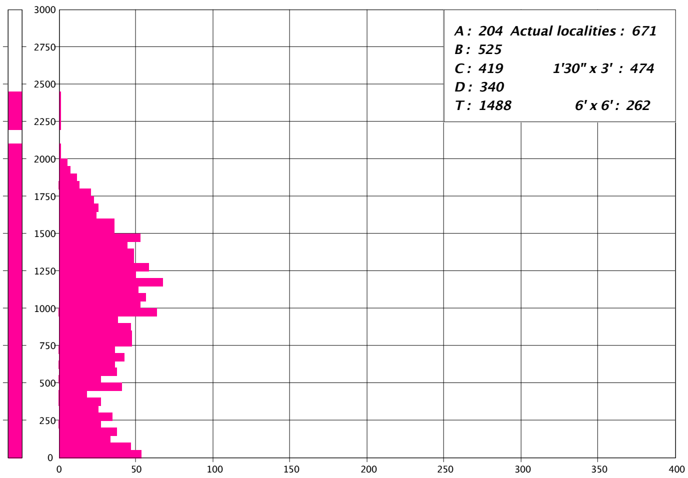
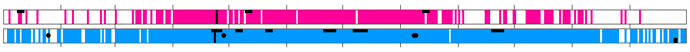


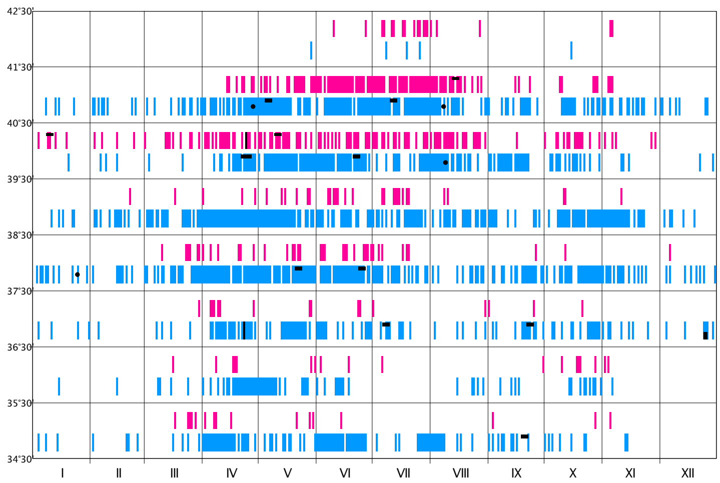


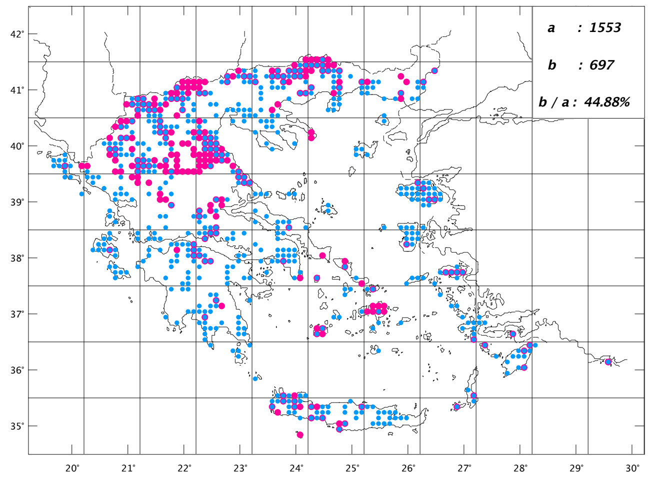


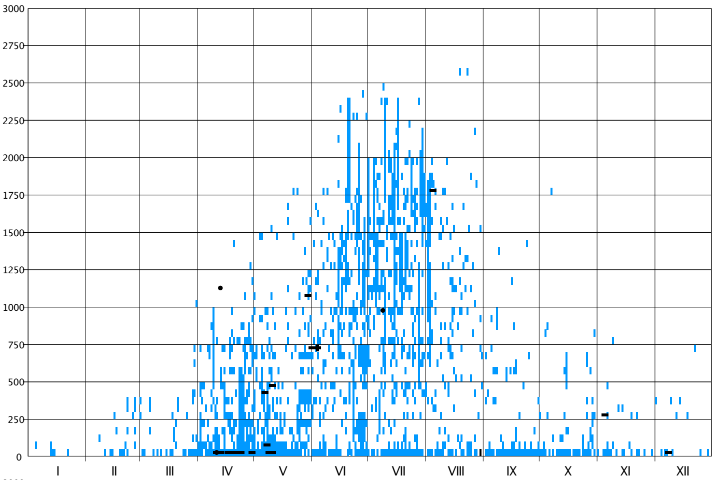


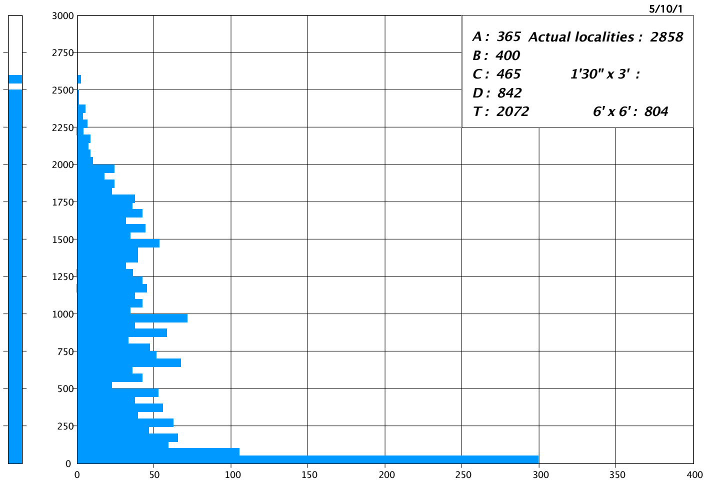


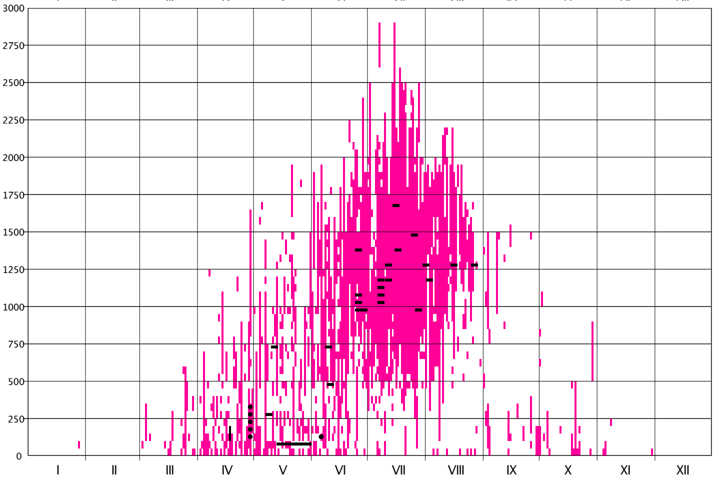
NYMPHALIDAE *Vanessa atalanta*

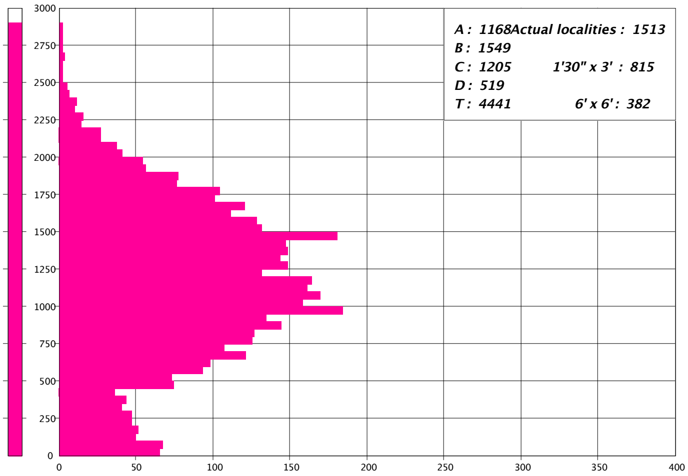


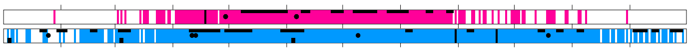




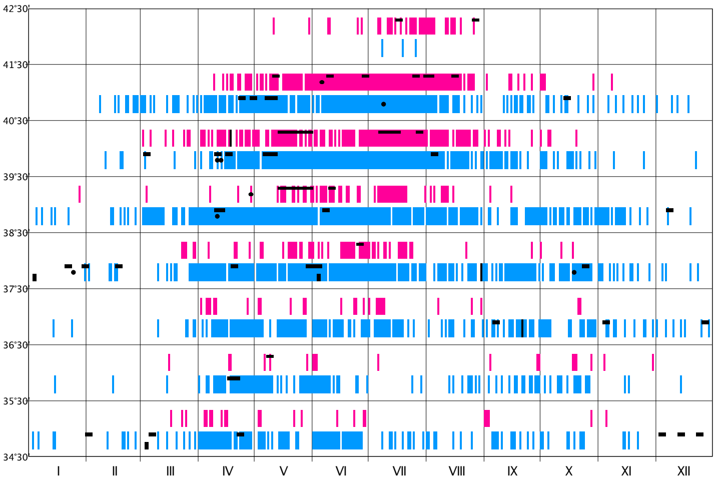


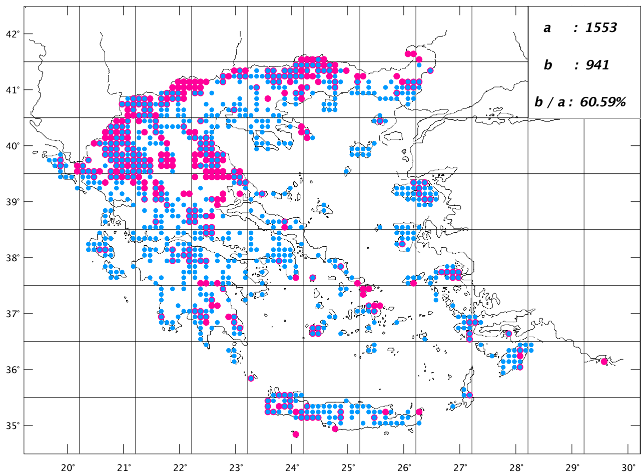


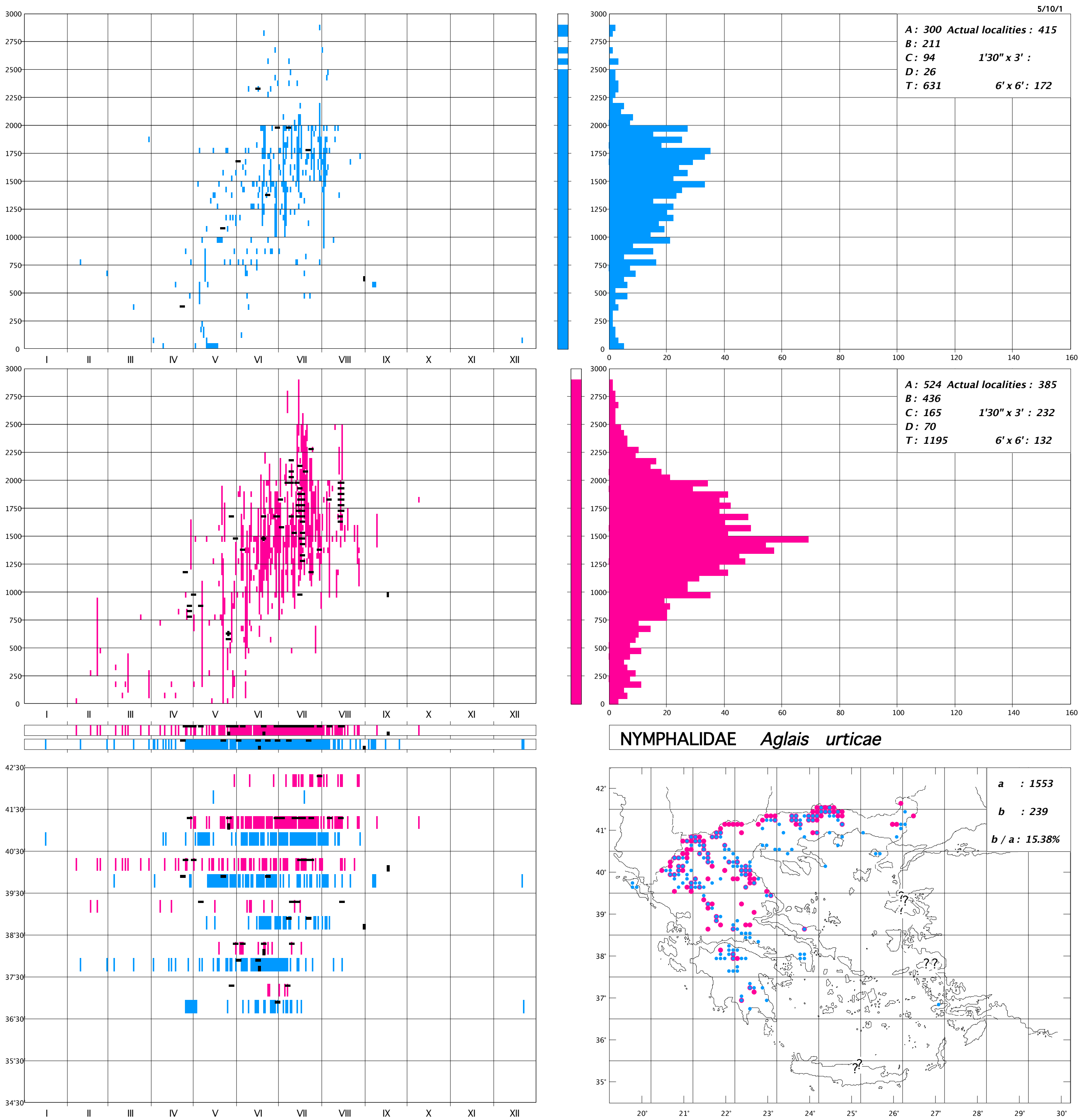


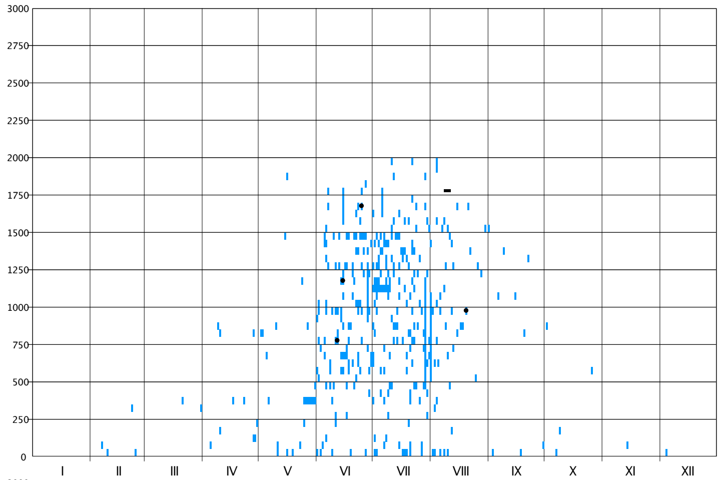


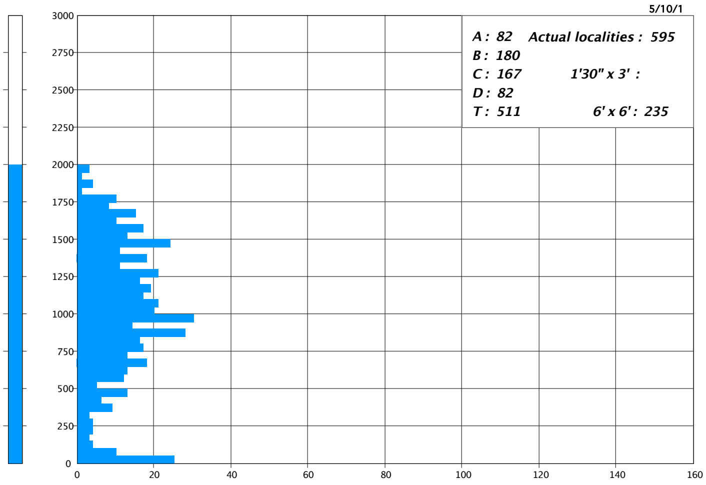
NYMPHALIDAE *Vanessa cardui*

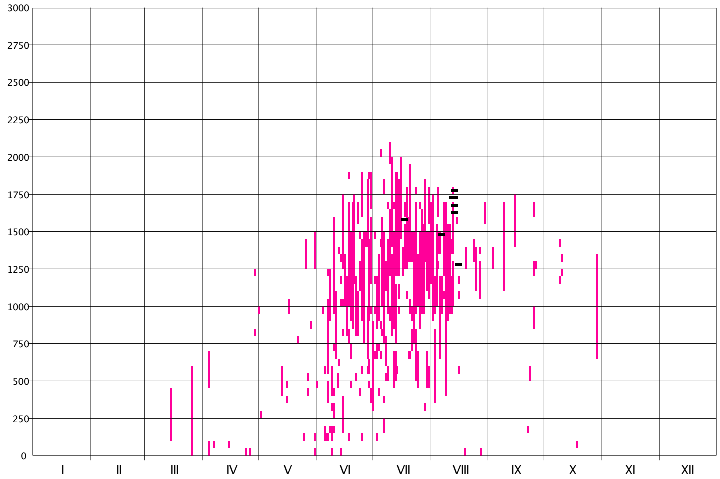


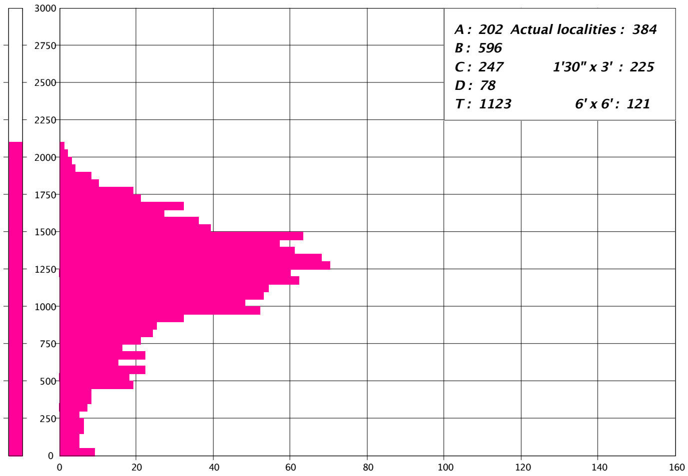


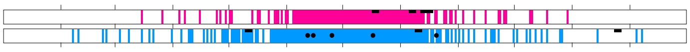

5/10/1
A : 300 Actual localities : 415
B : 211
C : 94 1'30" x 3' :
D : 26
T : 631 6' x 6' : 172
A : 524 Actual localities : 385
B : 436
C : 165 1'30" x 3' : 232
D : 70
T : 1195 6' x 6' : 132
NYMPHALIDAE Aglais urticae
a : 1553
b : 239
b / a : 15.38%



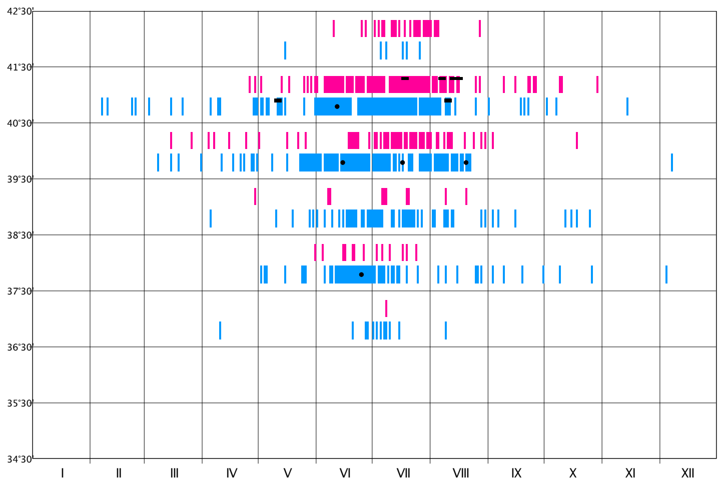


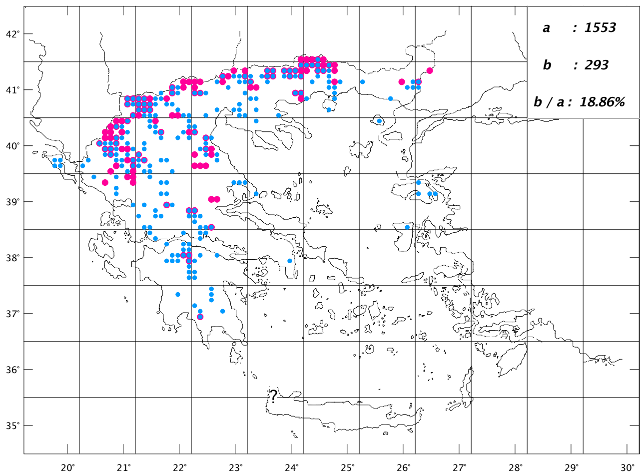


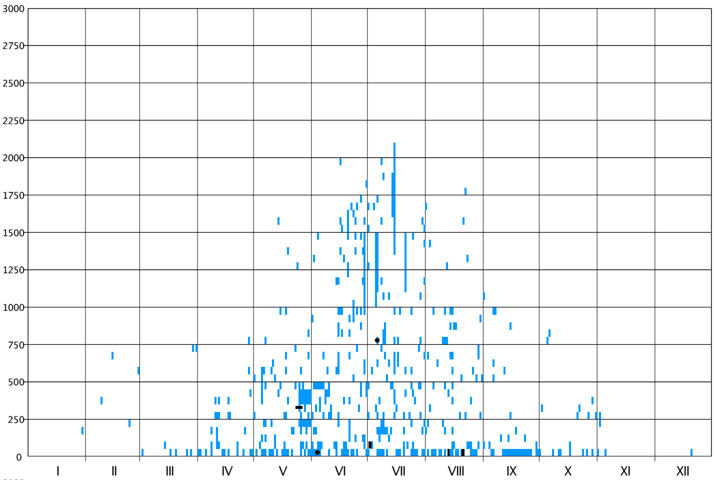


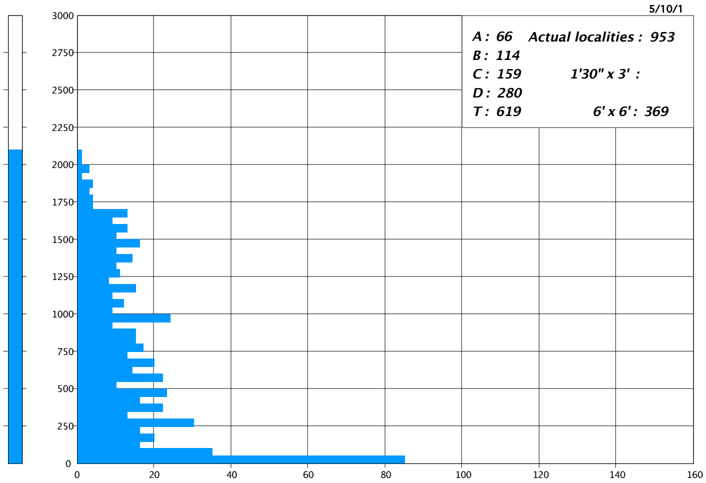


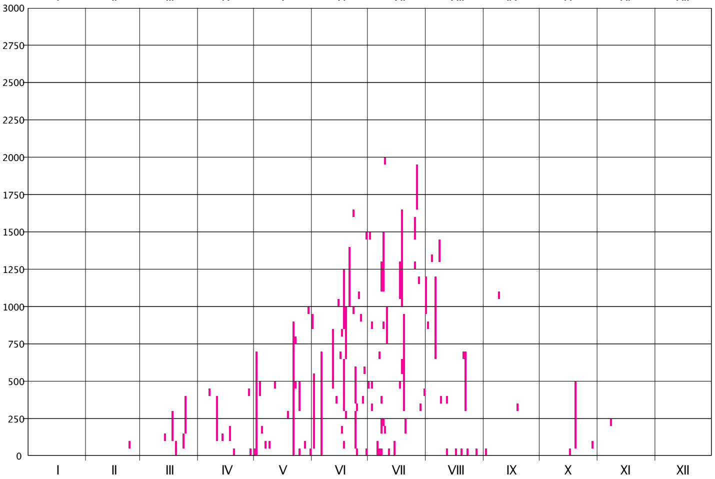
NYMPHALIDAE *Polygonia c-album*

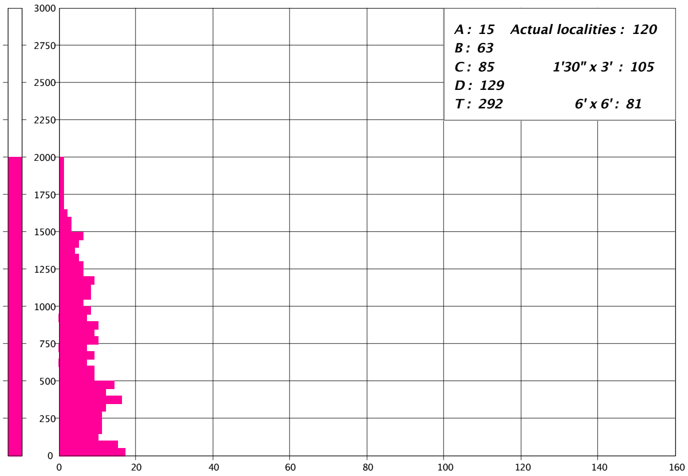


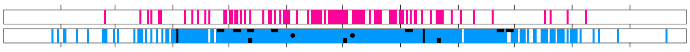




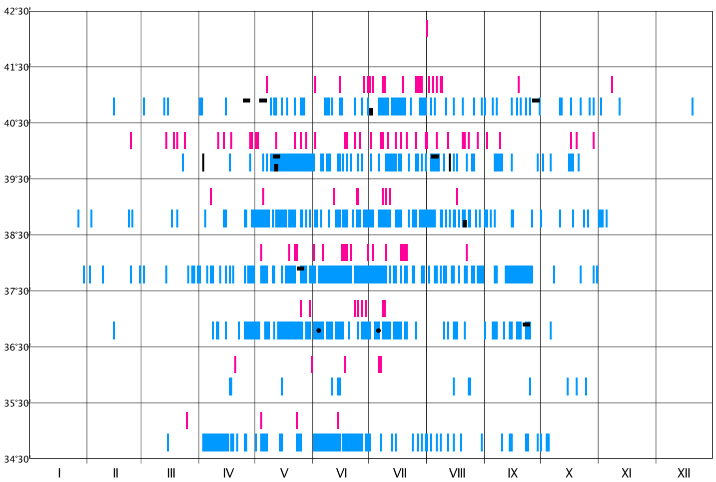


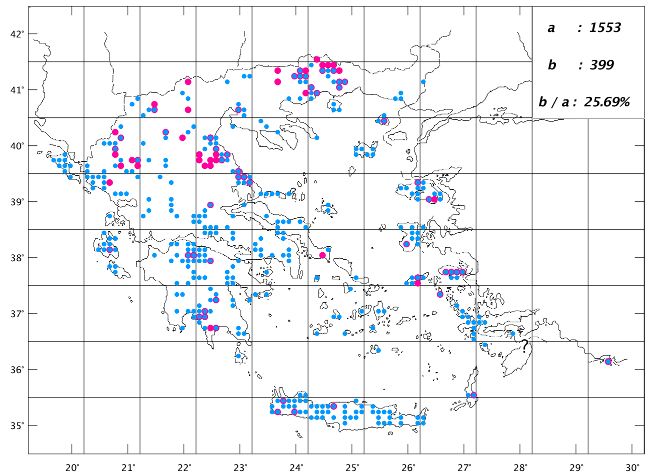


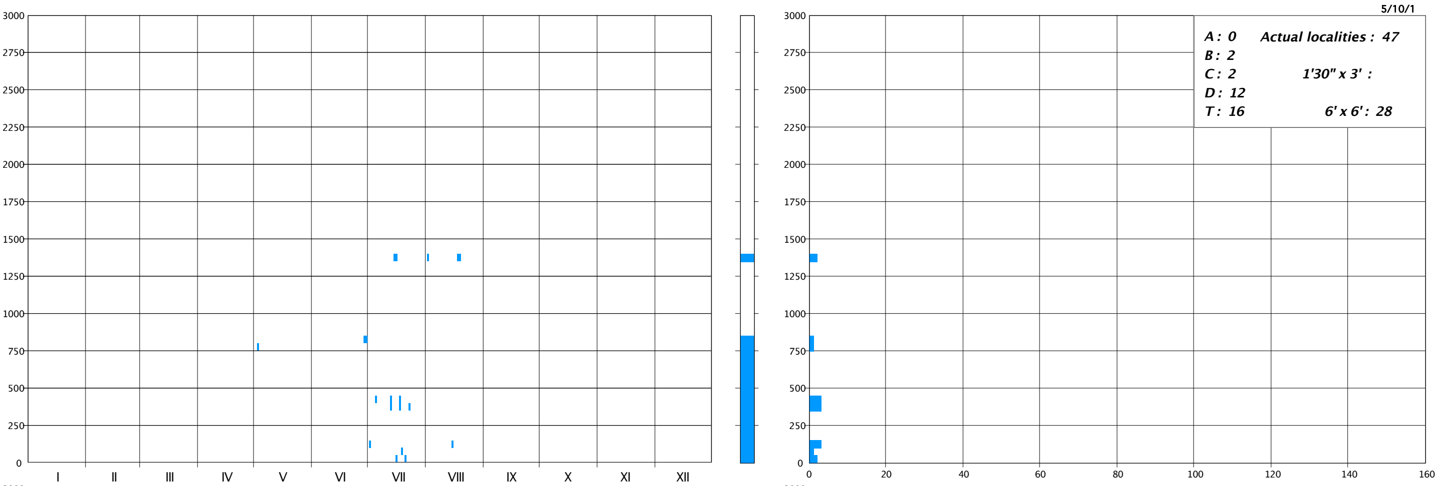


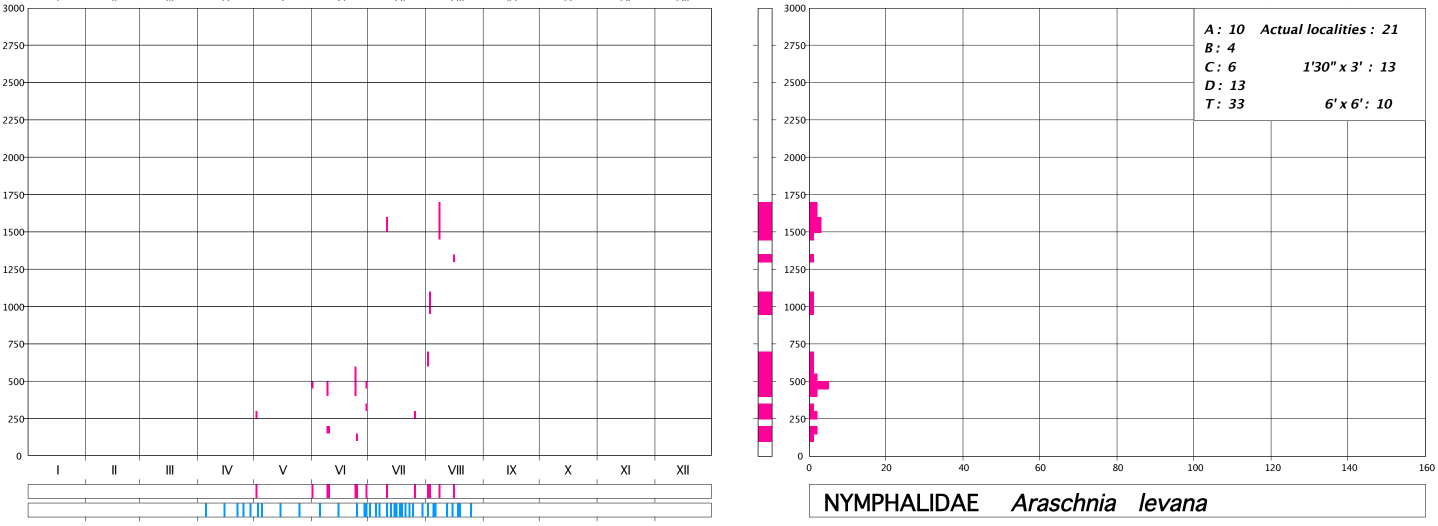


NYMPHALIDAE *Polygonia egea*

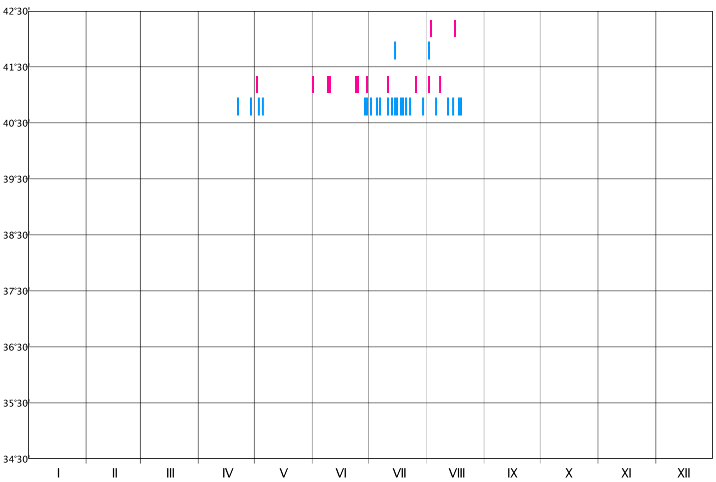


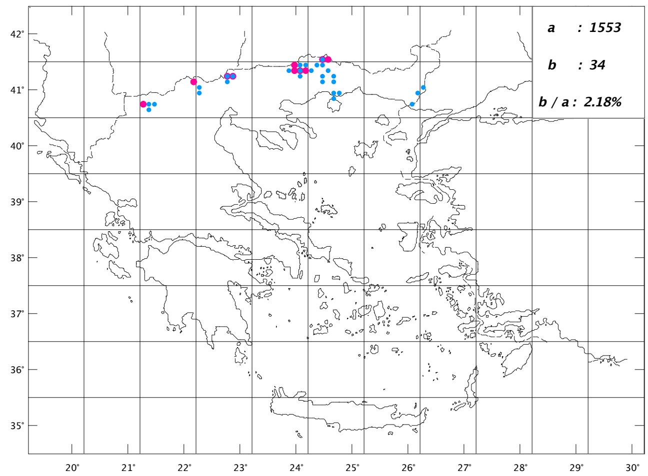


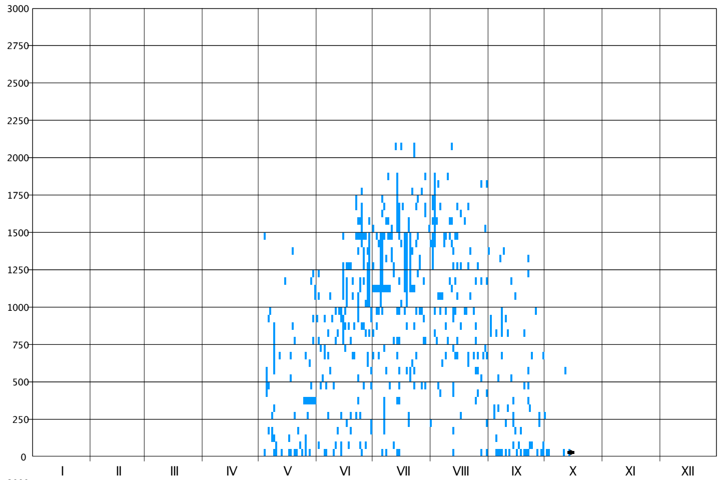


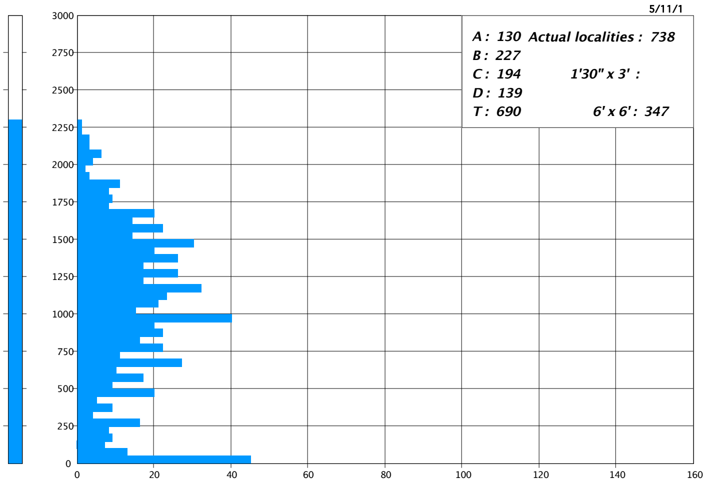


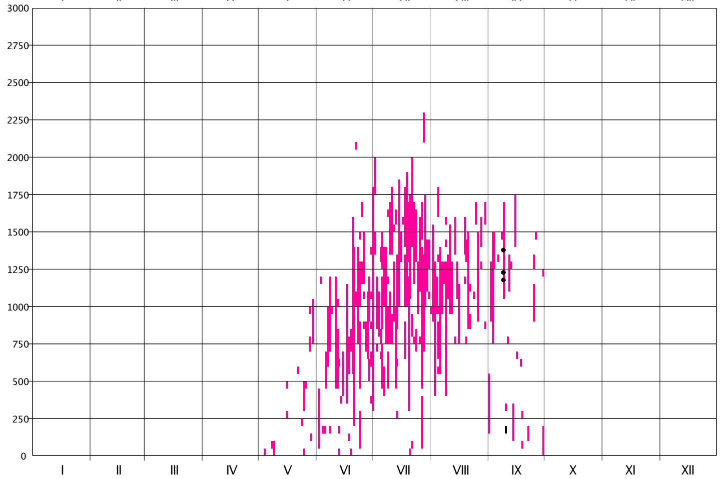
NYMPHALIDAE *Araschnia levana*

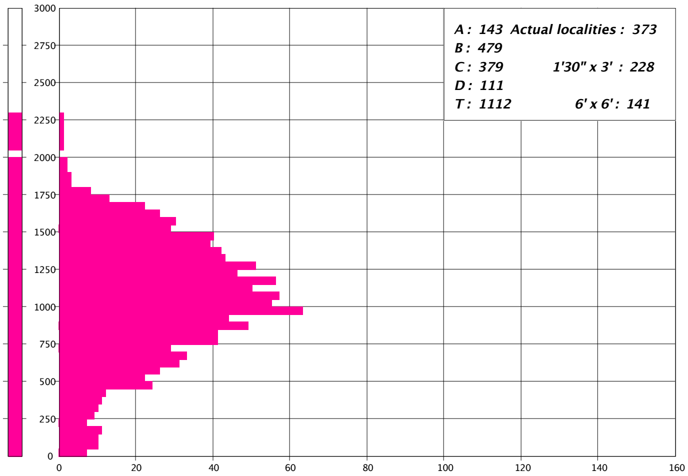


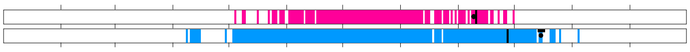




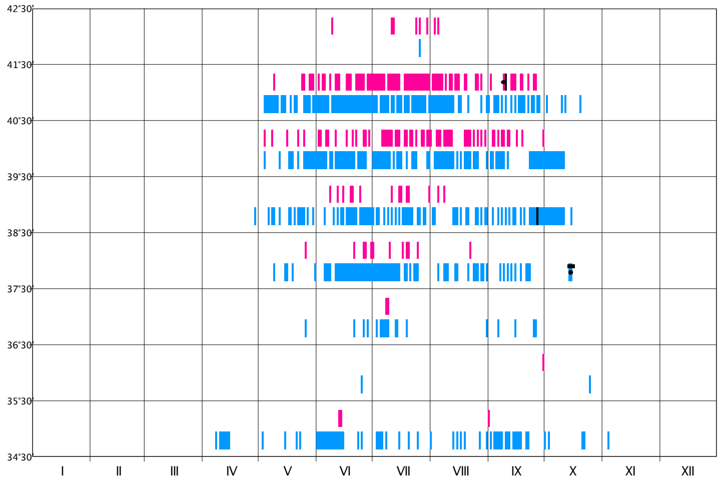


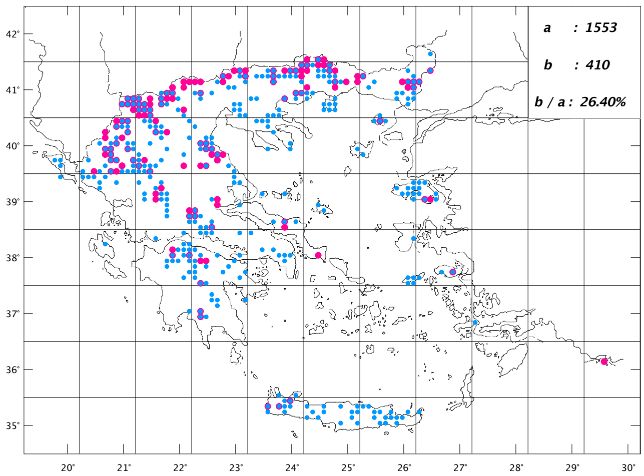






NYMPHALIDAE *Argynnis pandora*





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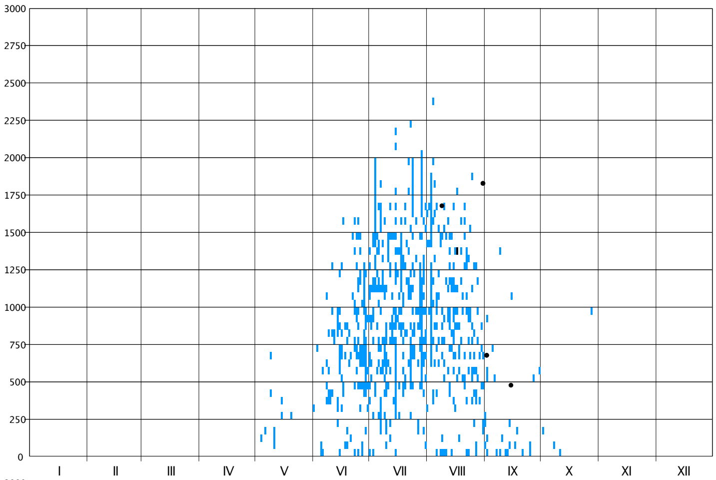
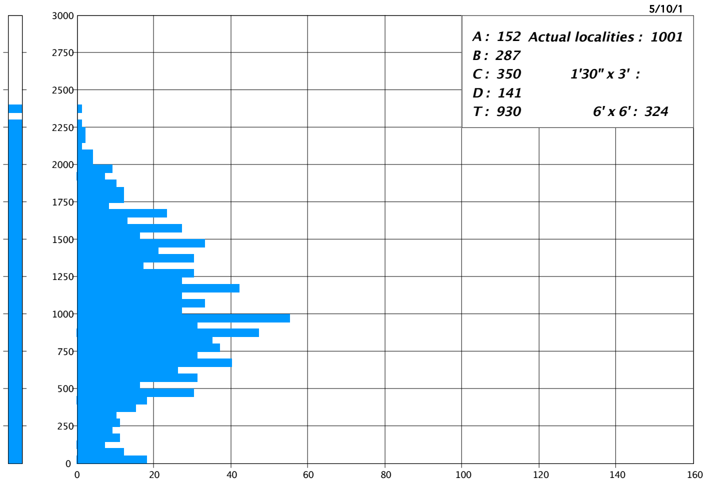
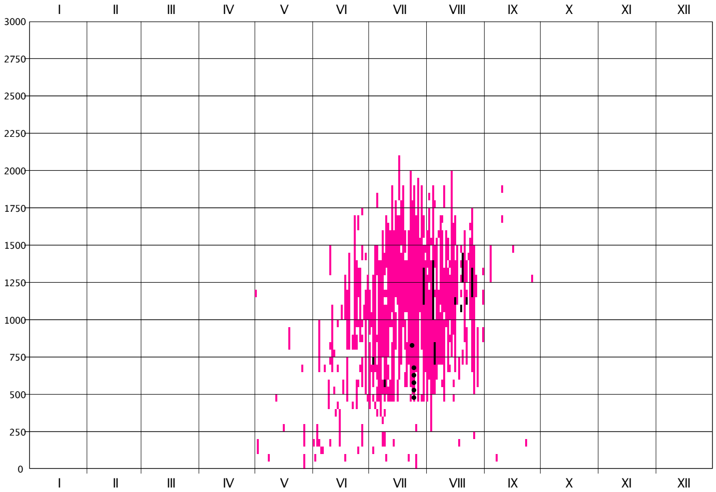
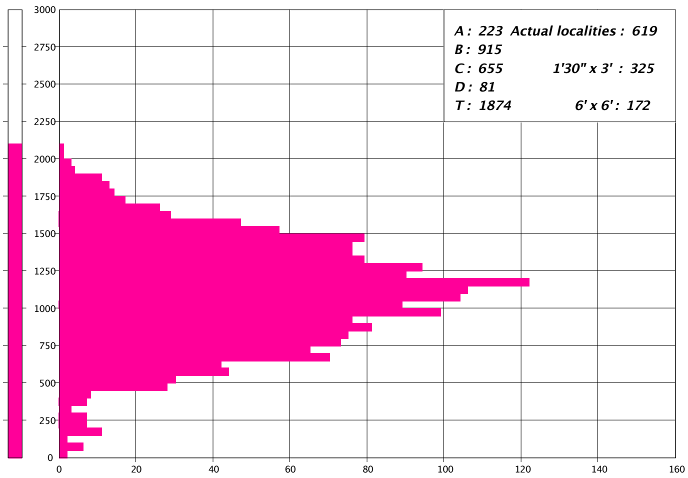
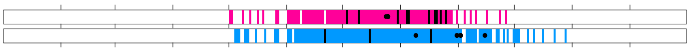


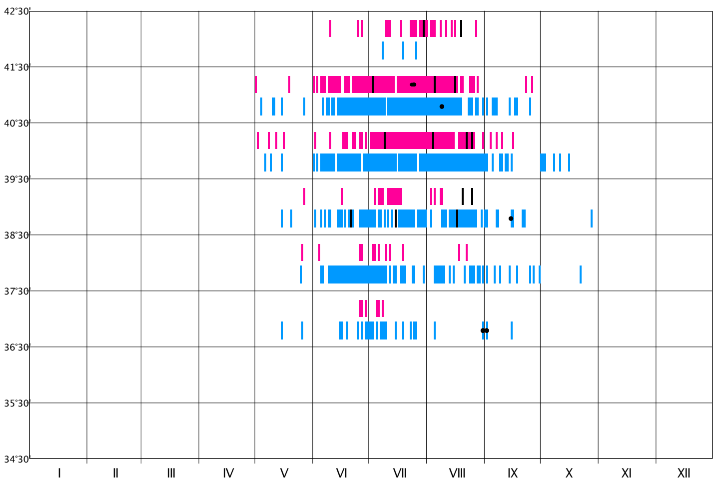


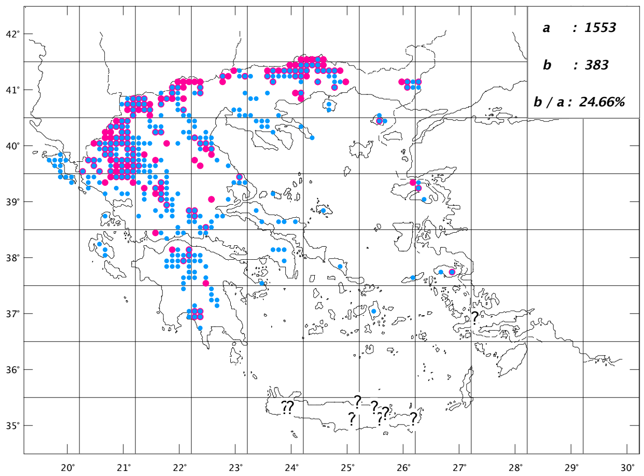


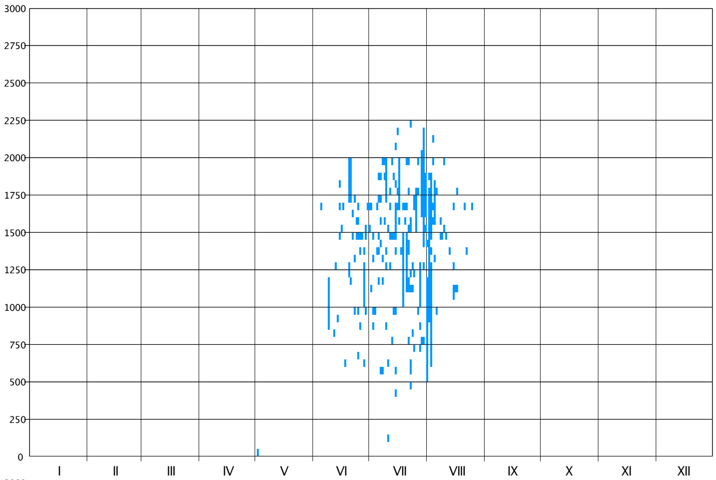


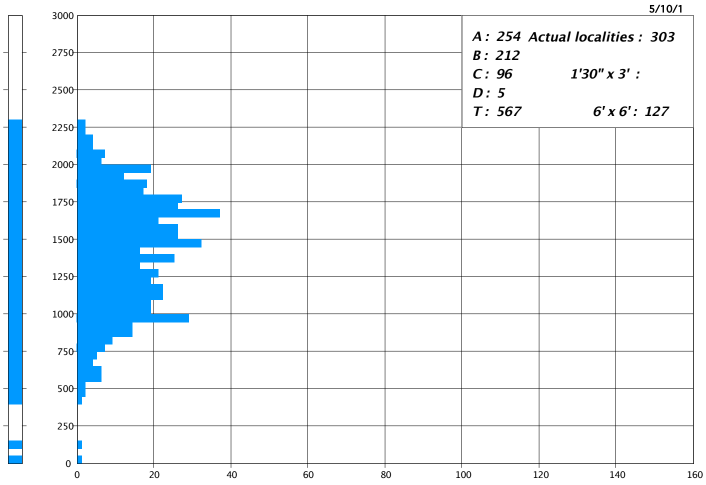


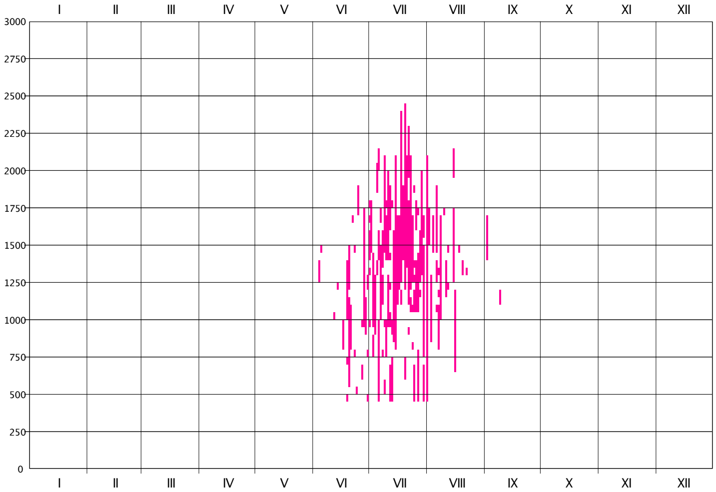
NYMPHALIDAE *Argynnis paphia*

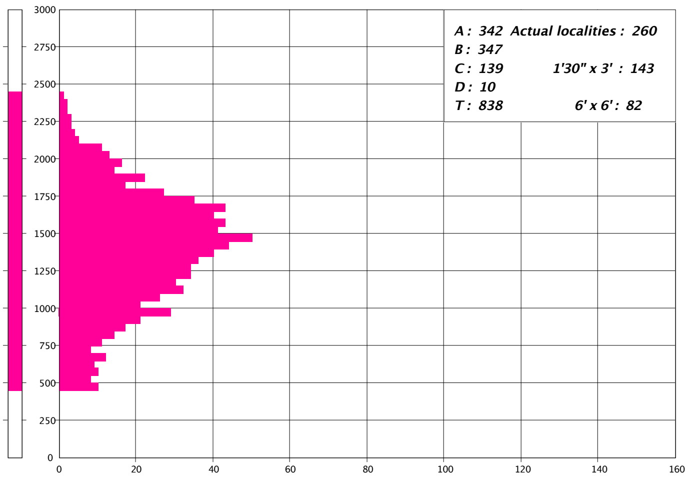


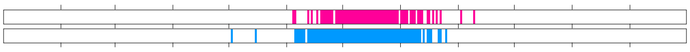




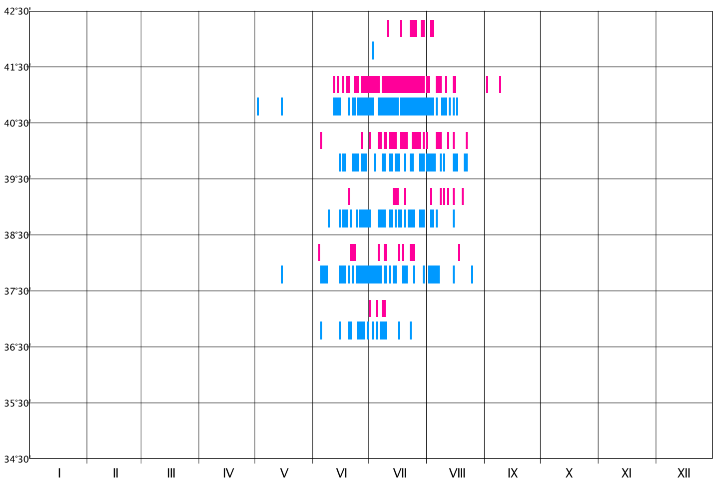


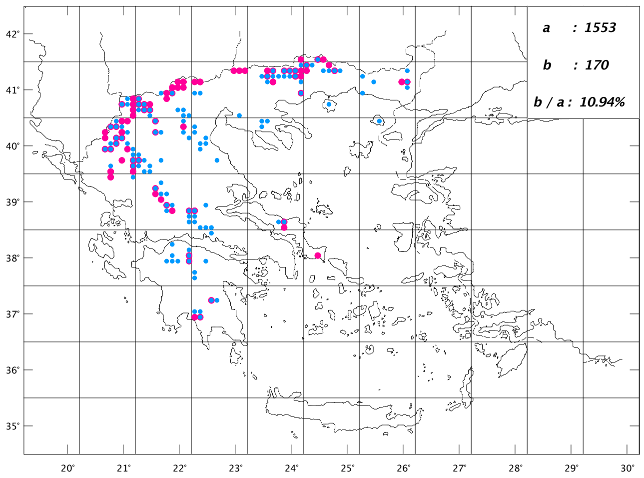


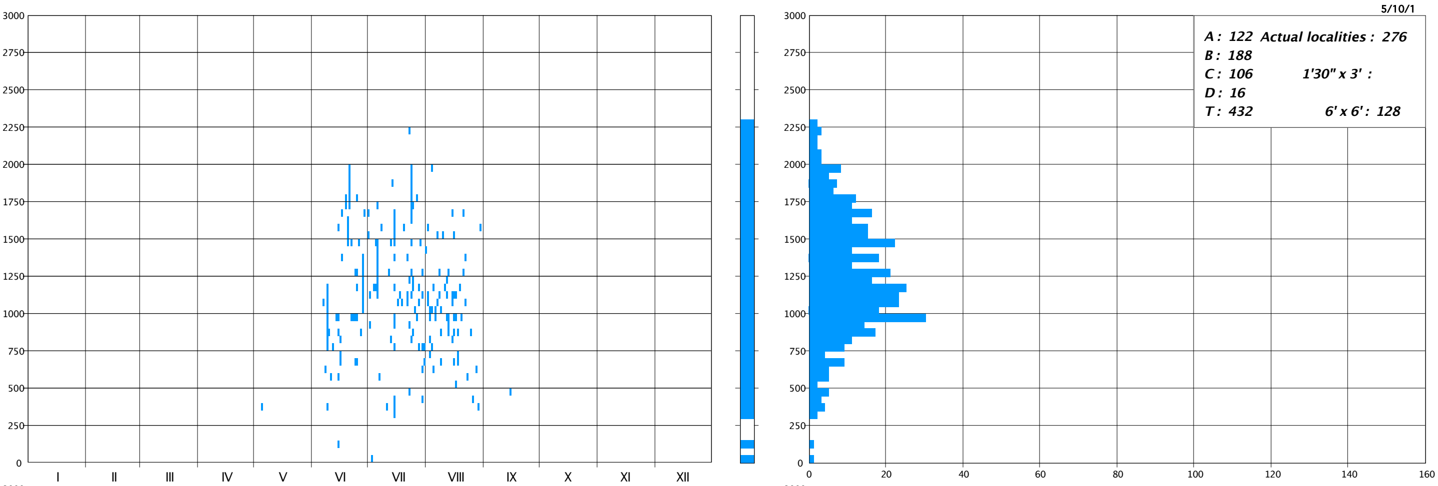


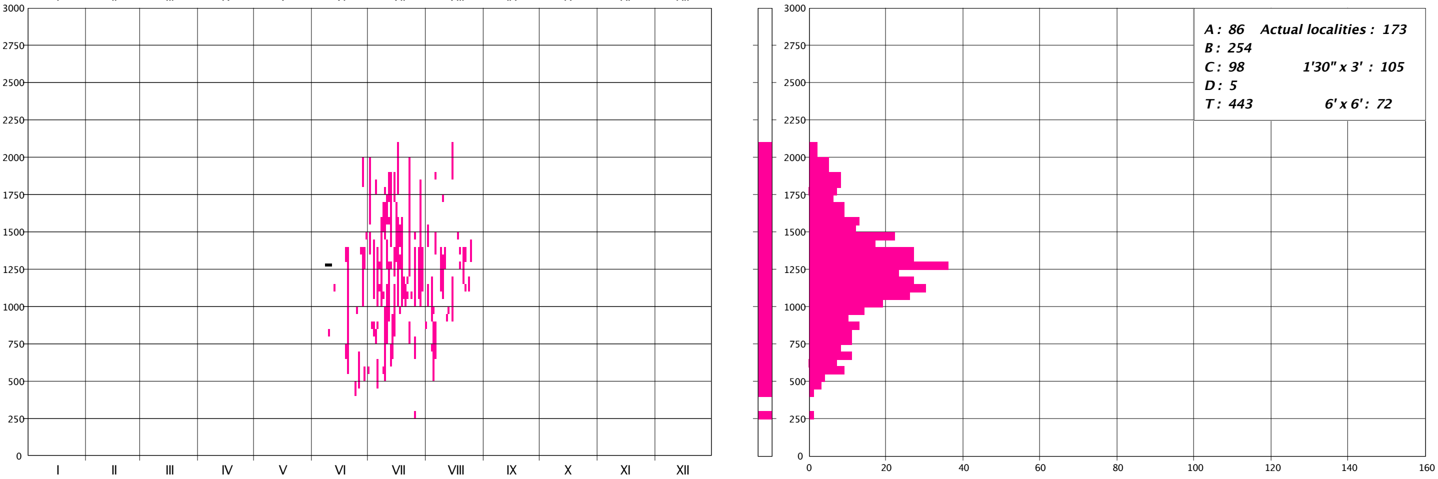


NYMPHALIDAE *Argynnis aglaja*

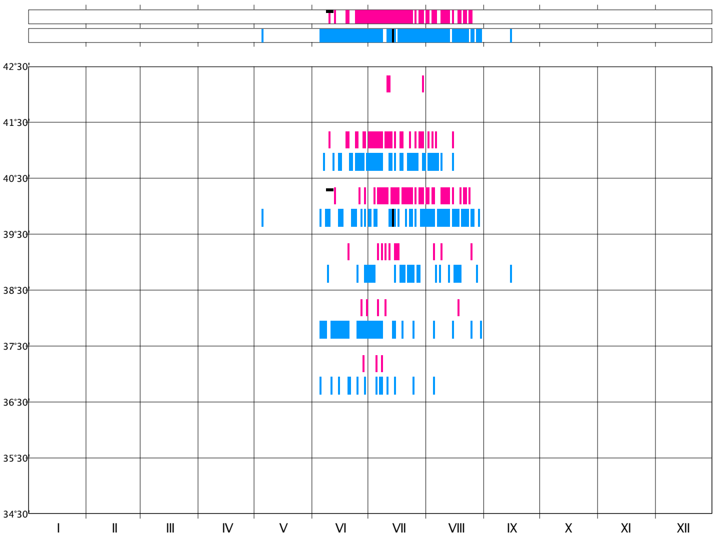


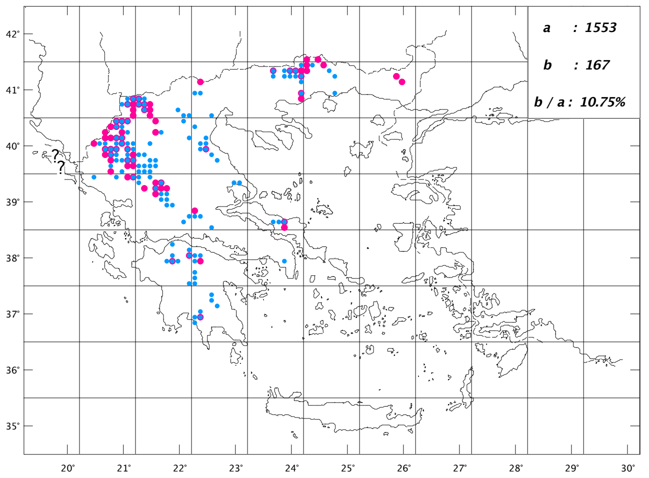


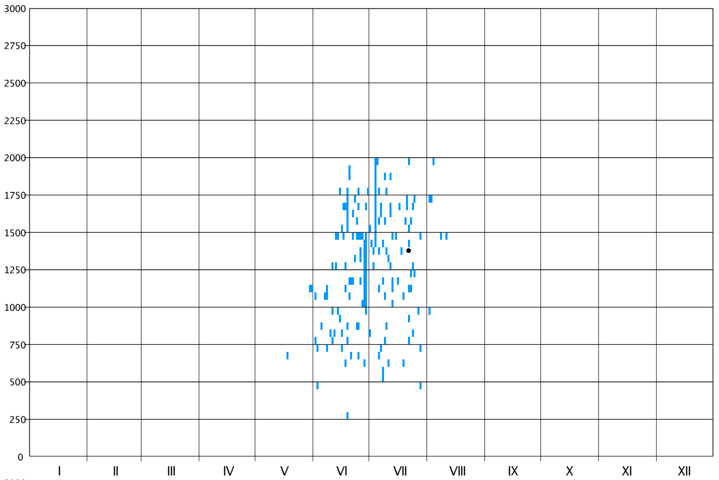


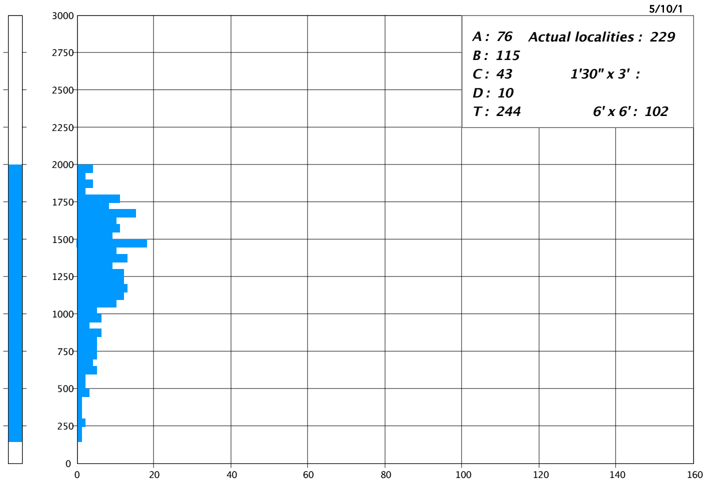


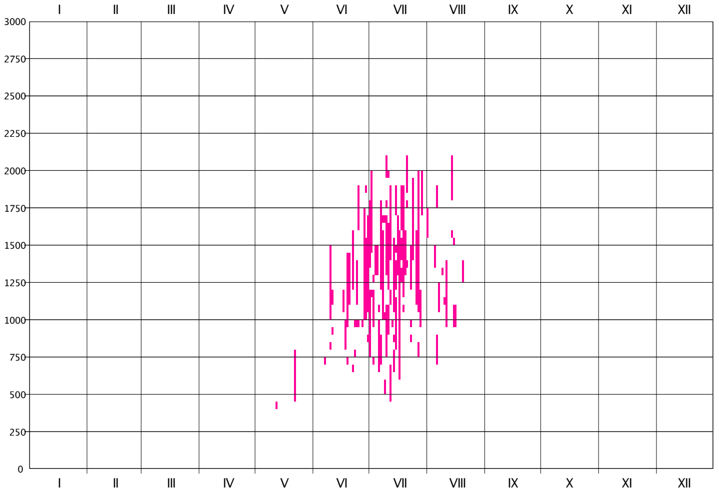
NYMPHALIDAE *Argynnis adippe*

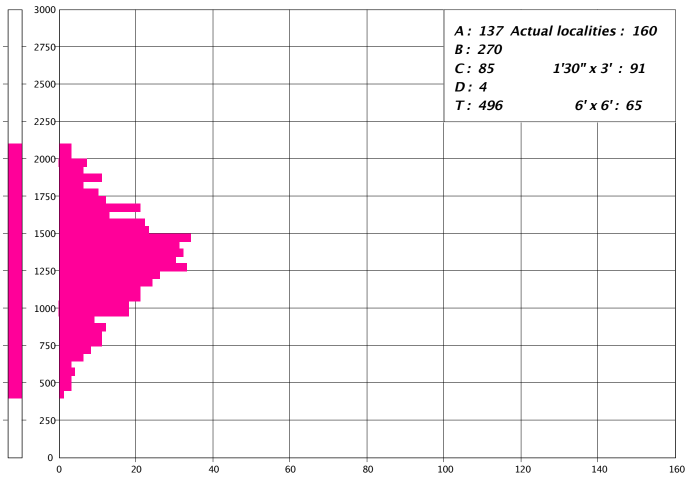


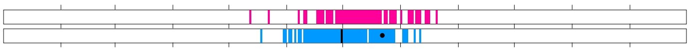




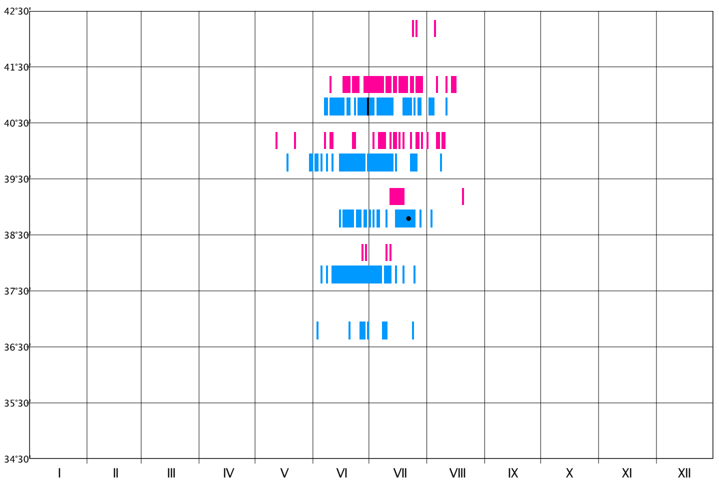


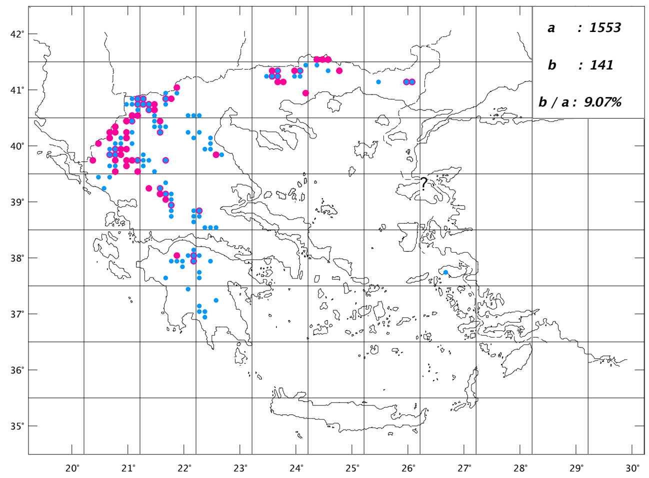


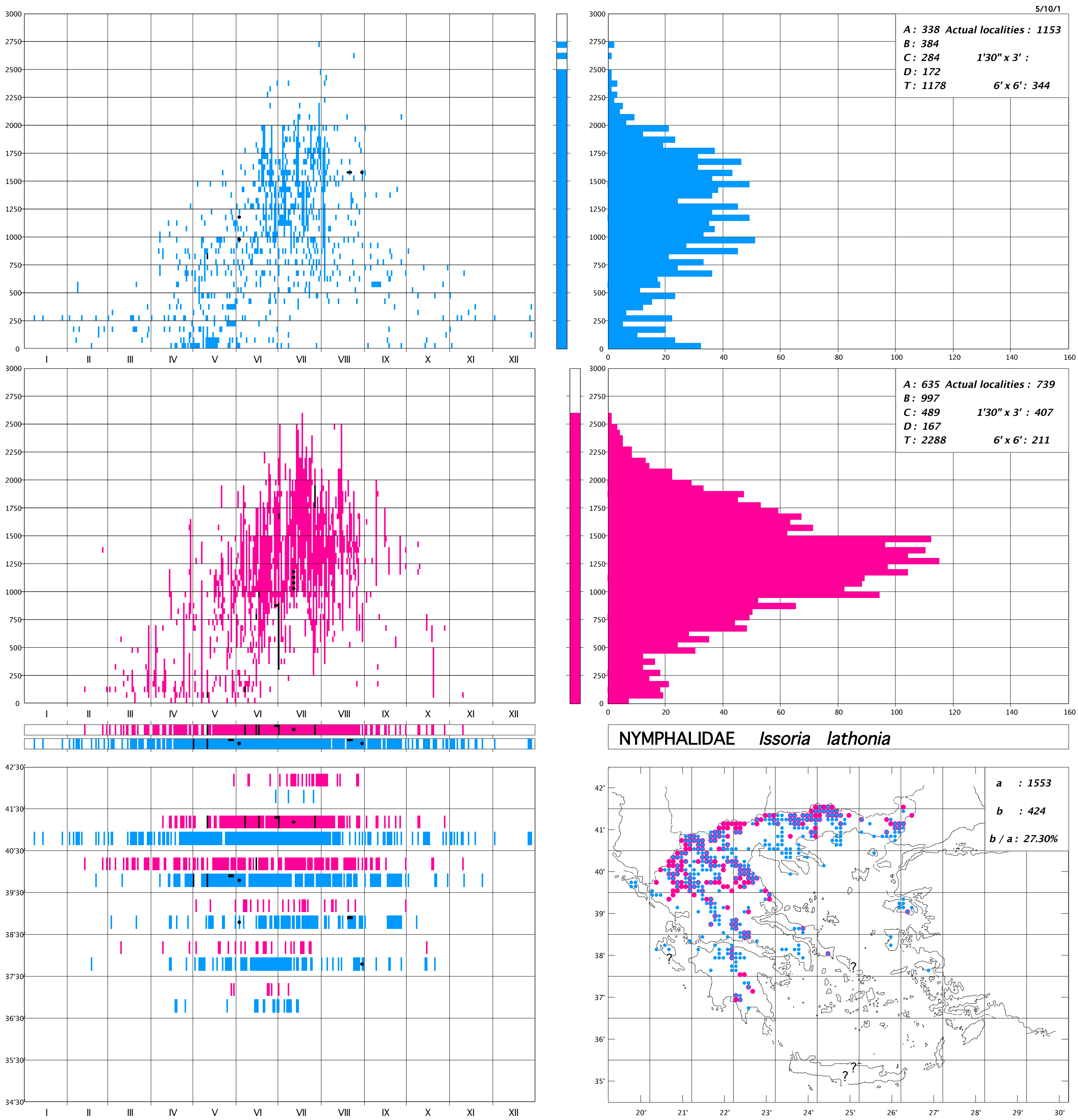


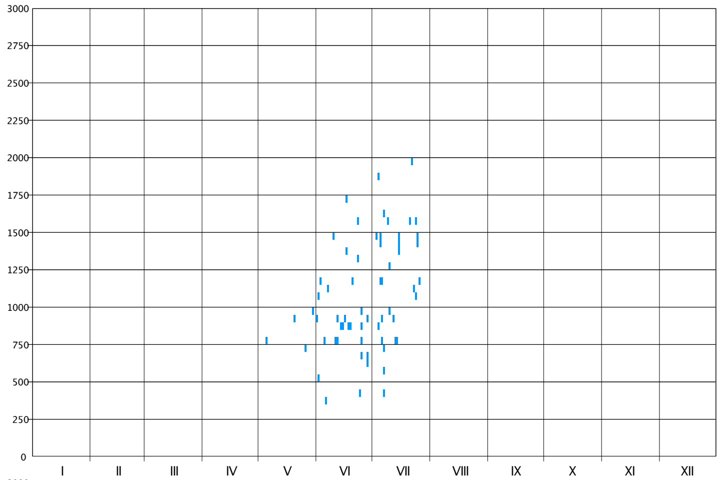


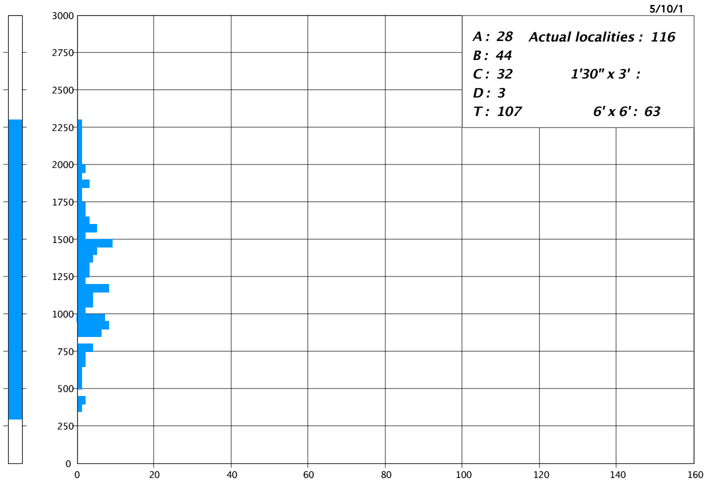
NYMPHALIDAE *Argynnis niobe*

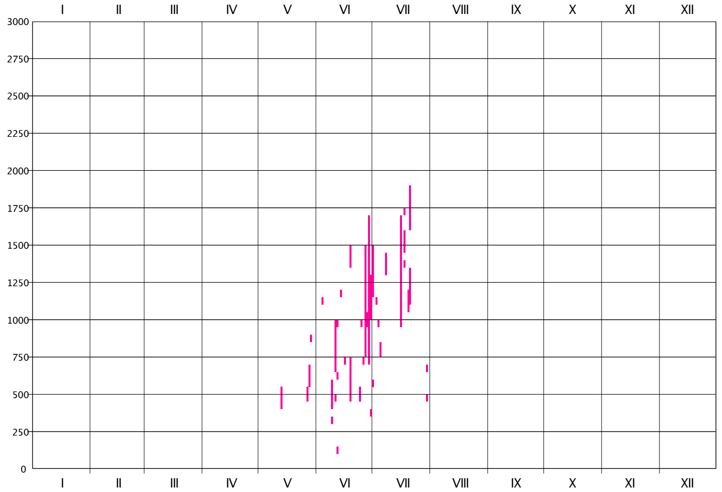


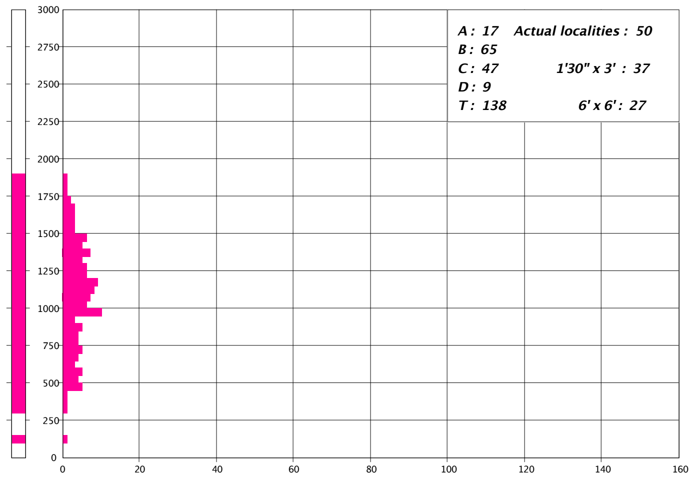


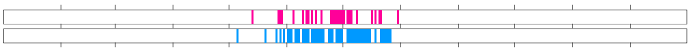

5/10/1
A : 338 Actual localities : 1153
B : 384
C : 284 1'30" x 3' :
D : 172
T : 1178 6' x 6' : 344
A : 635 Actual localities : 739
B : 997
C : 489 1'30" x 3' : 407
D : 167
T : 2288 6' x 6' : 211
NYMPHALIDAE *Issoria lathonia*
a : 1553
b : 424
b / a : 27.30%
I II III IV V VI VII VIII IX X XI XII



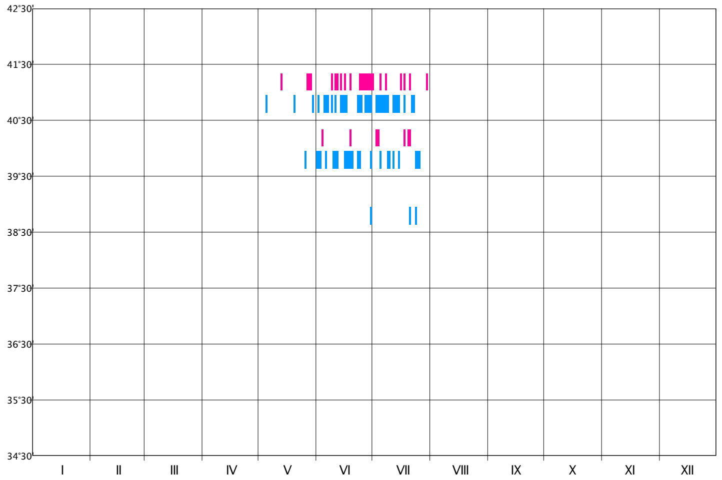


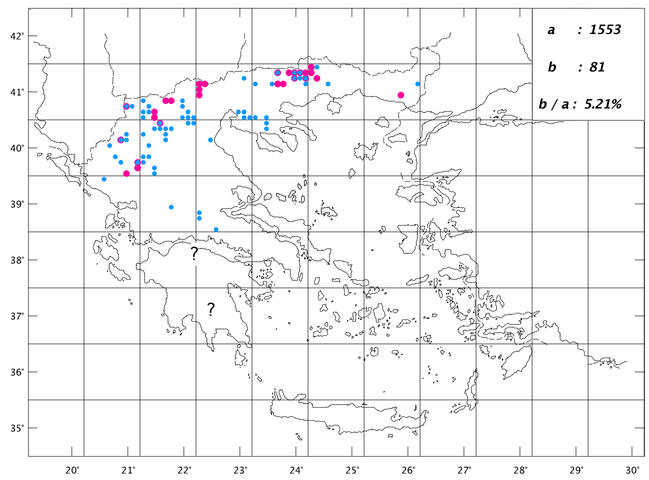


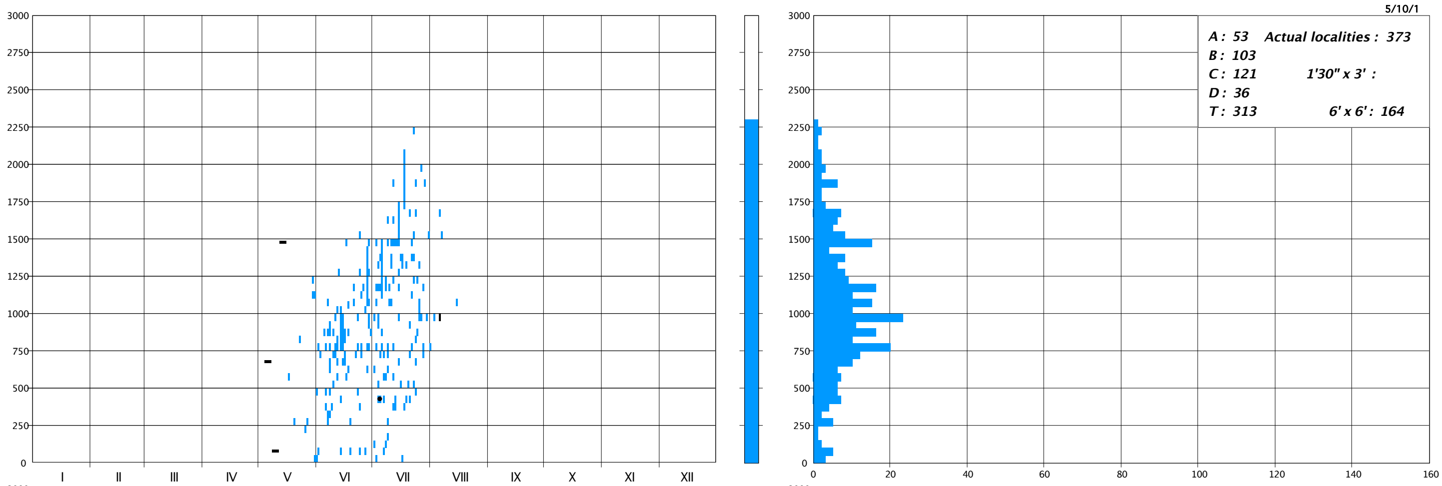


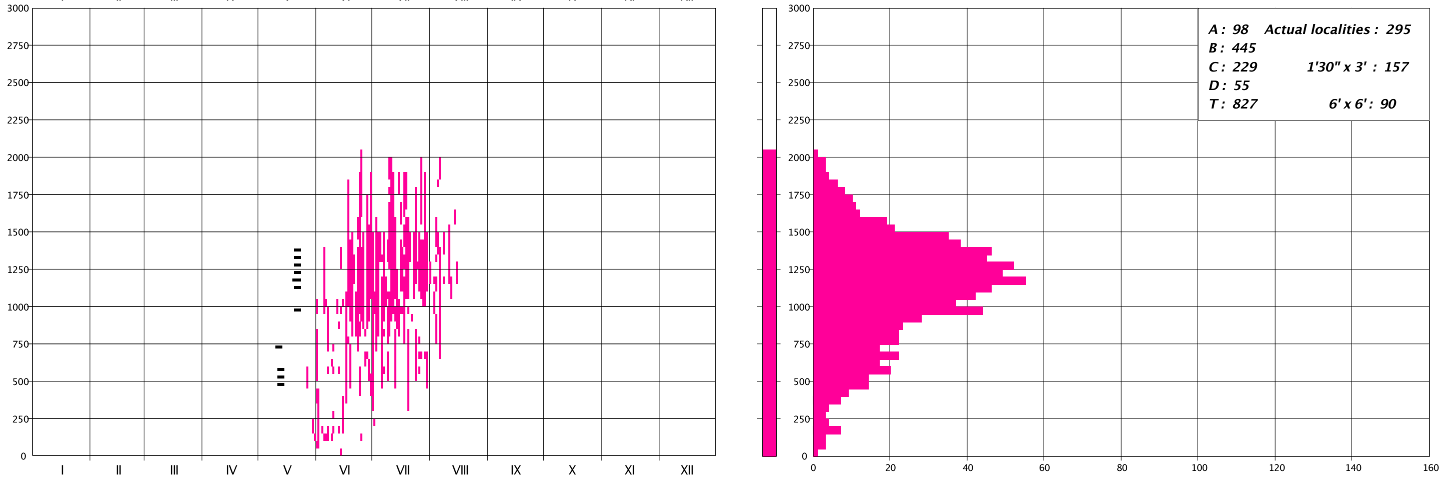


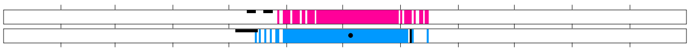
NYMPHALIDAE *Brenthis hecate*



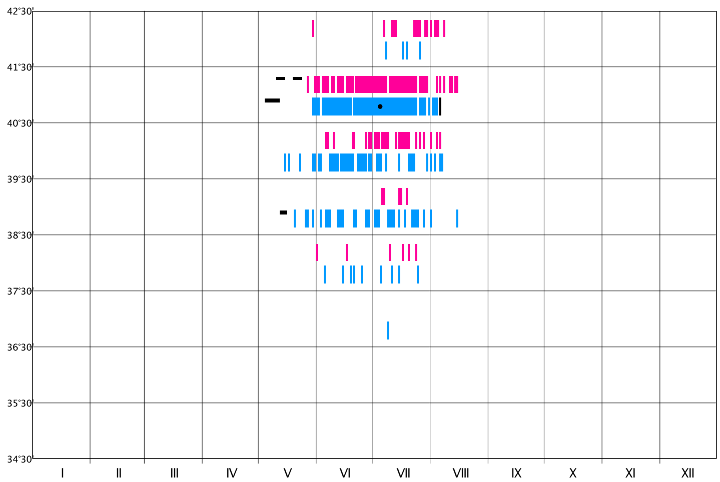


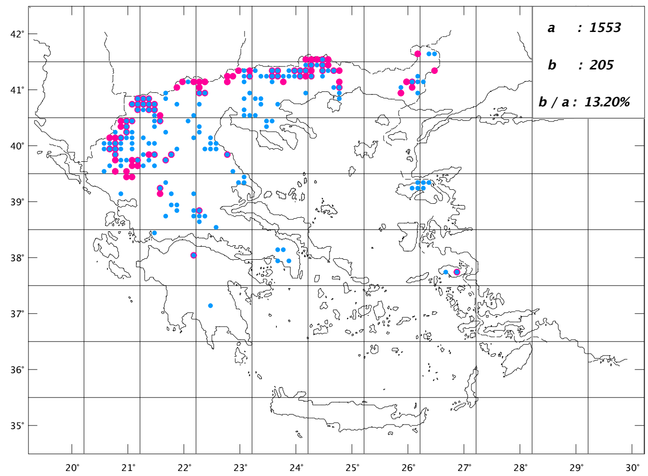


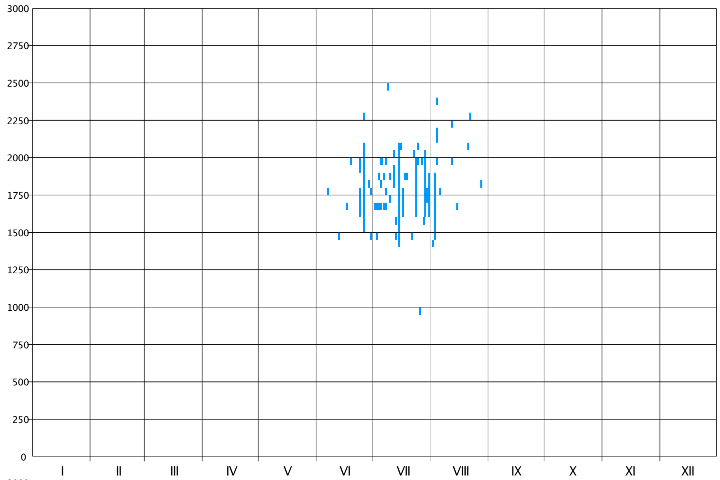


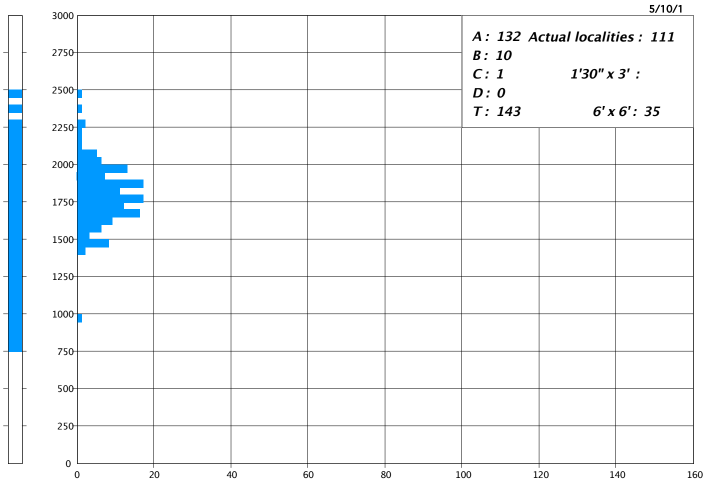


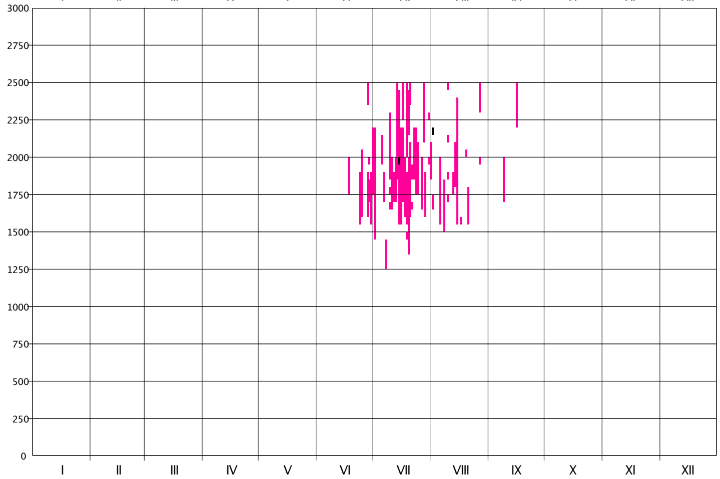
NYMPHALIDAE *Brenthis daphne*

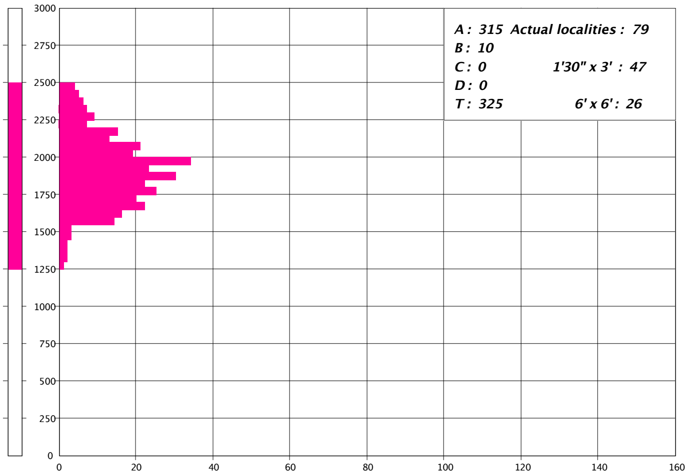


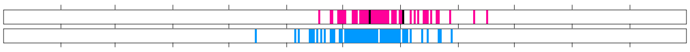




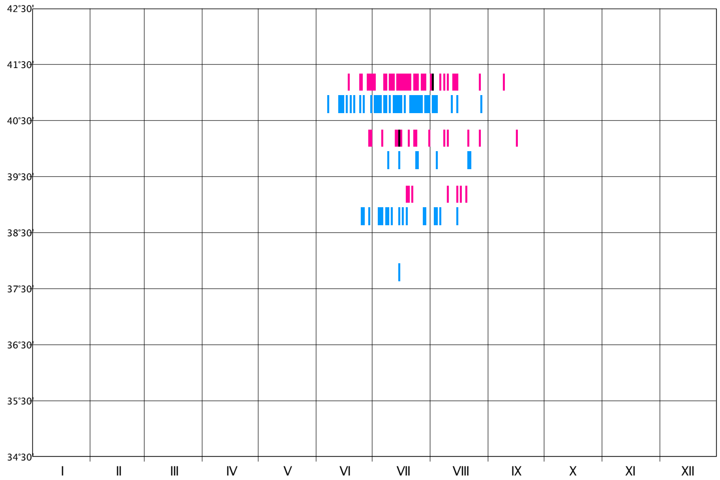


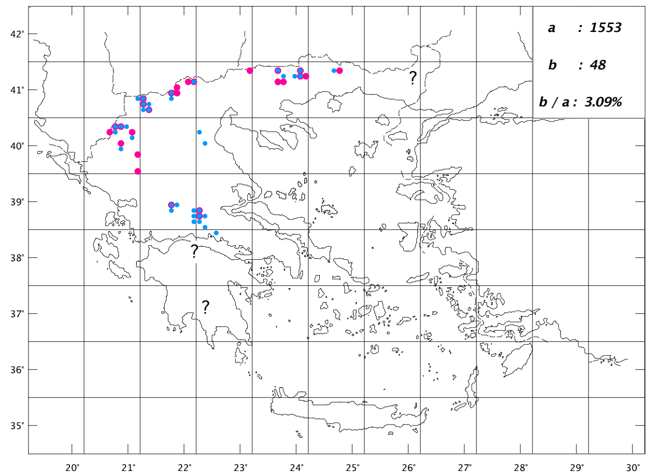


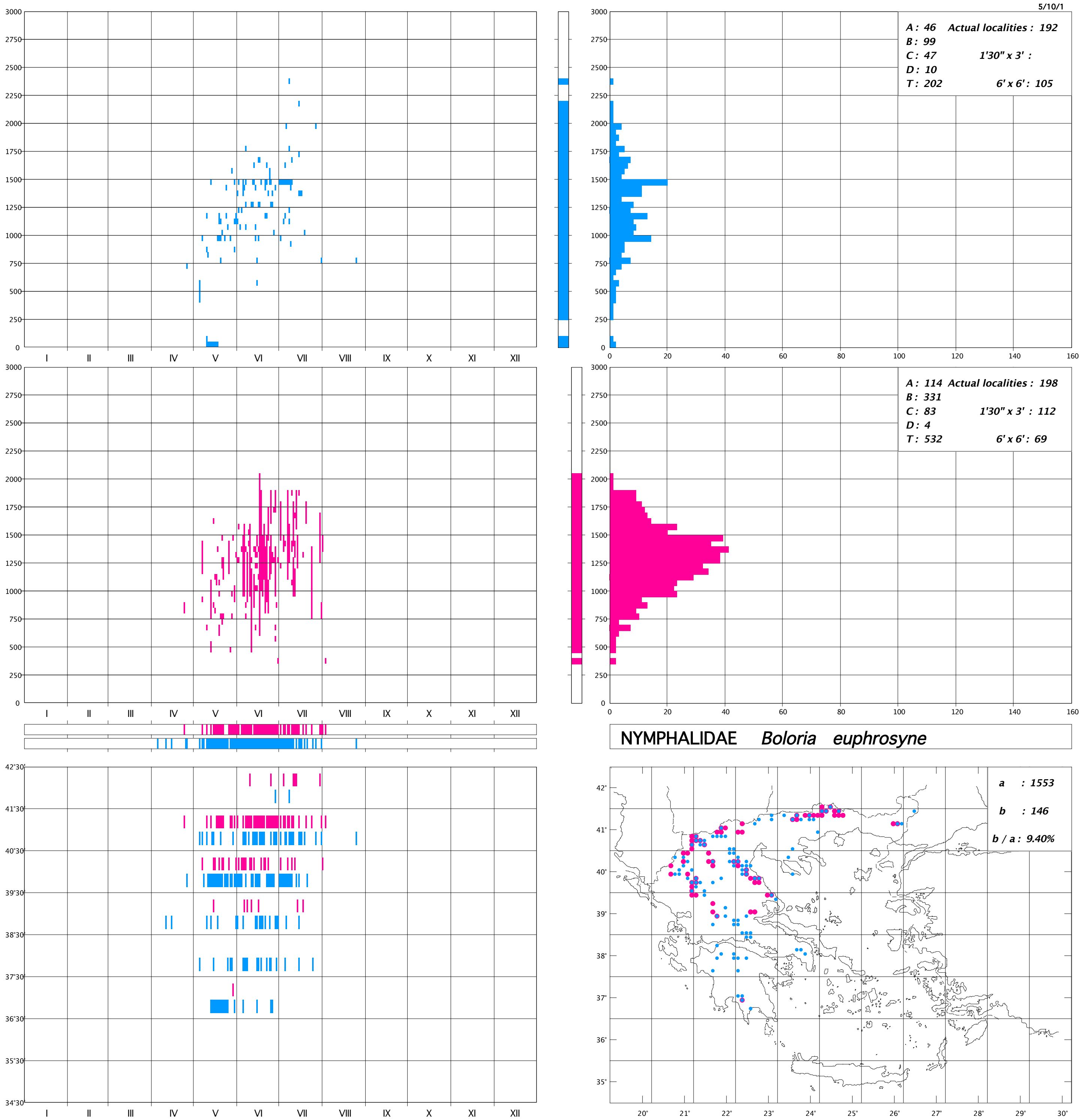


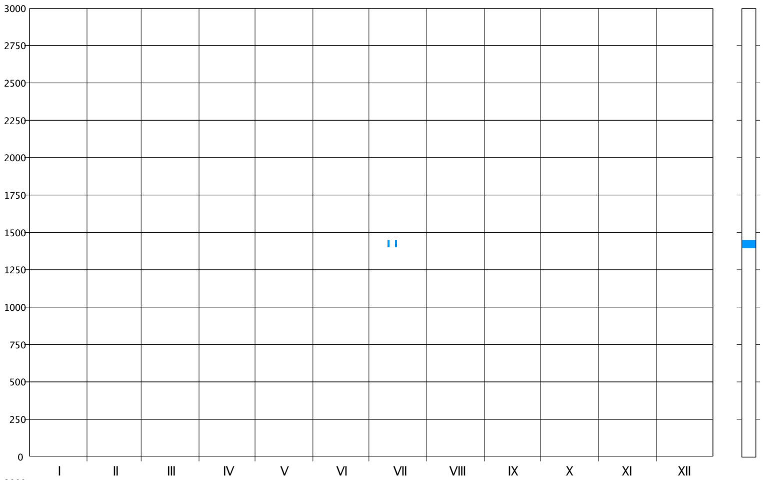


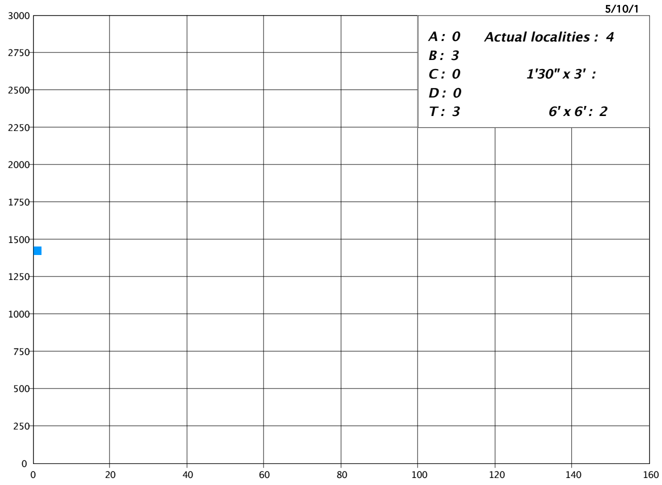
NYMPHALIDAE *Boloria graeca*

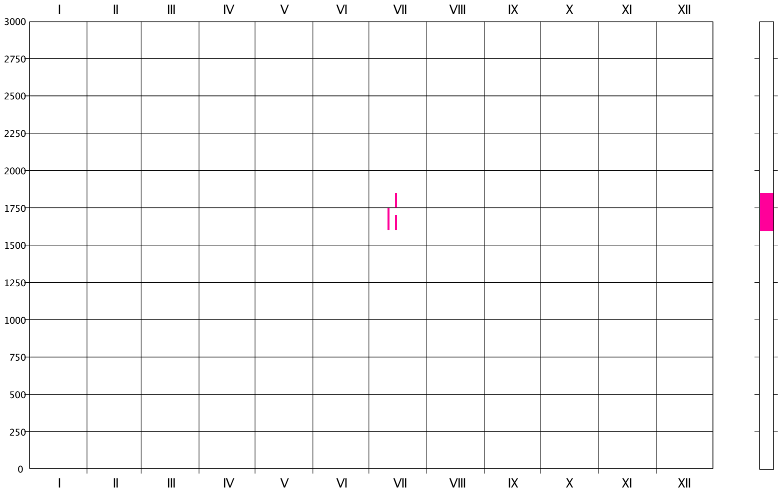


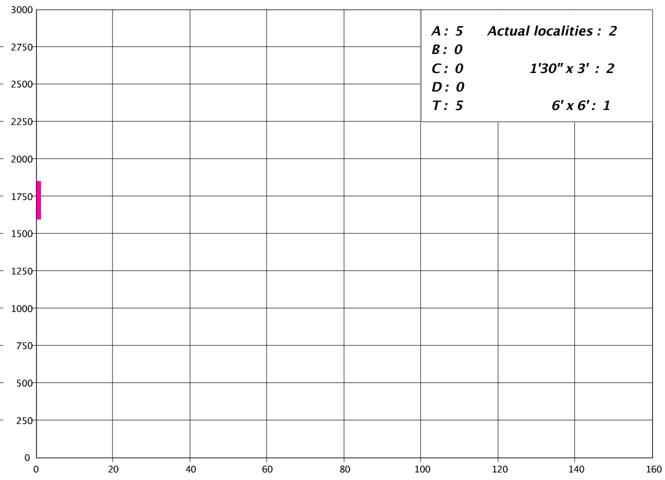


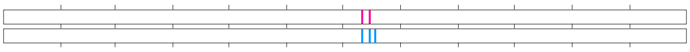

A : 46 Actual localities : 192
B : 99
C : 47 1'30" x 3' :
D : 10
T : 202 6' x 6' : 105
A : 114 Actual localities : 198
B : 331
C : 83 1'30" x 3' : 112
D : 4
T : 532 6' x 6' : 69
NYMPHALIDAE *Boloria euphrosyne*
a : 1553
b : 146
b / a : 9.40%



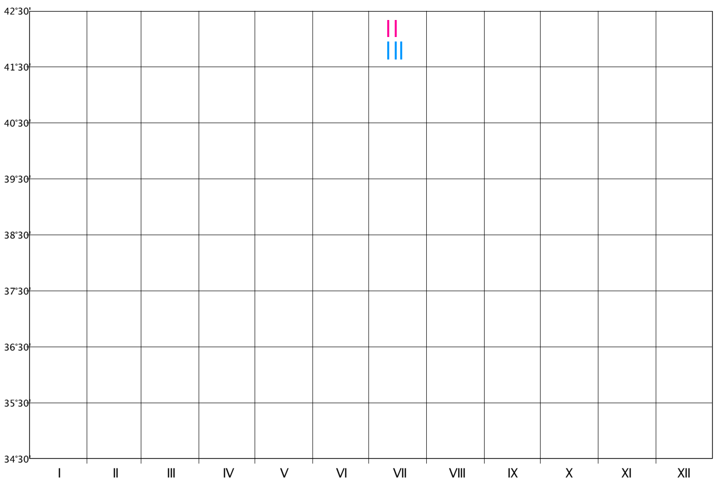


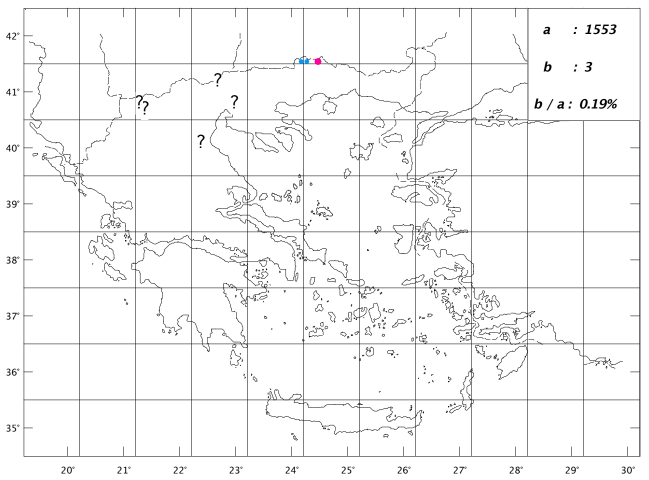


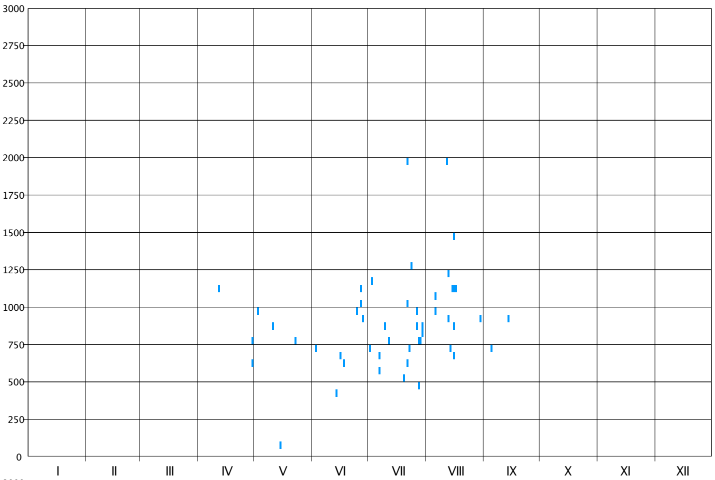


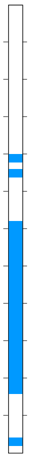


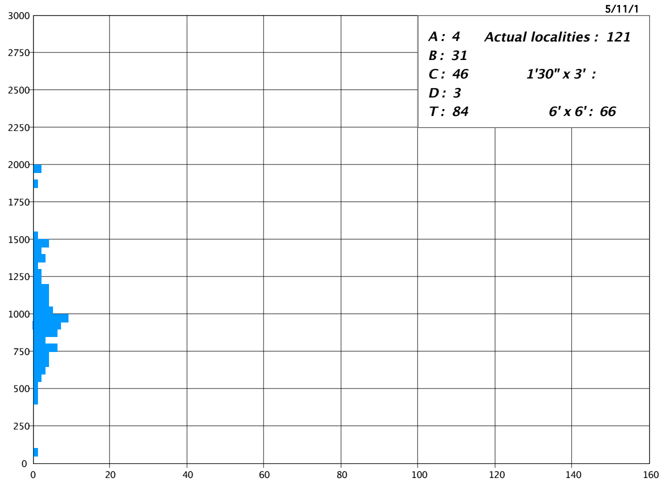
NYMPHALIDAE *Boloria selene*

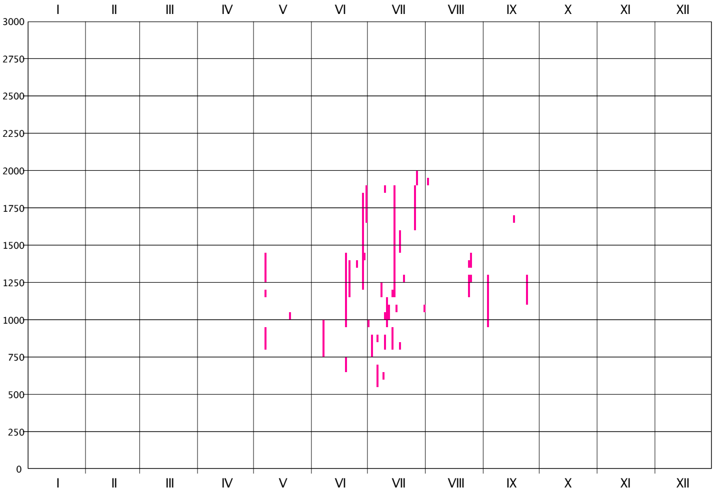


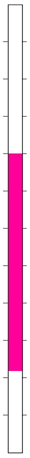


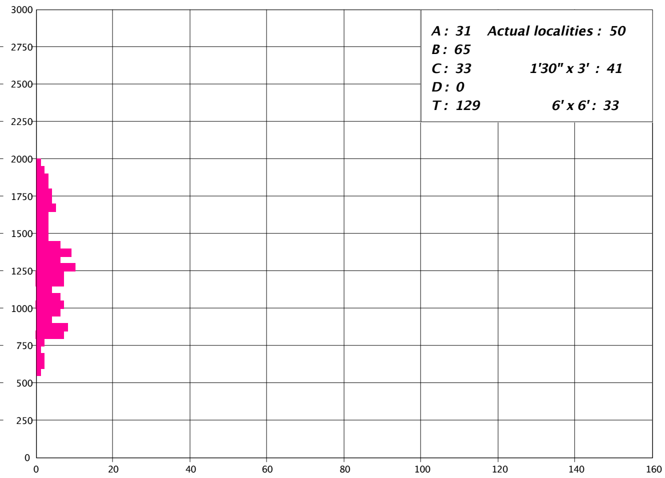


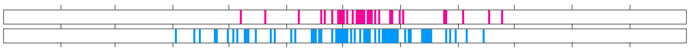




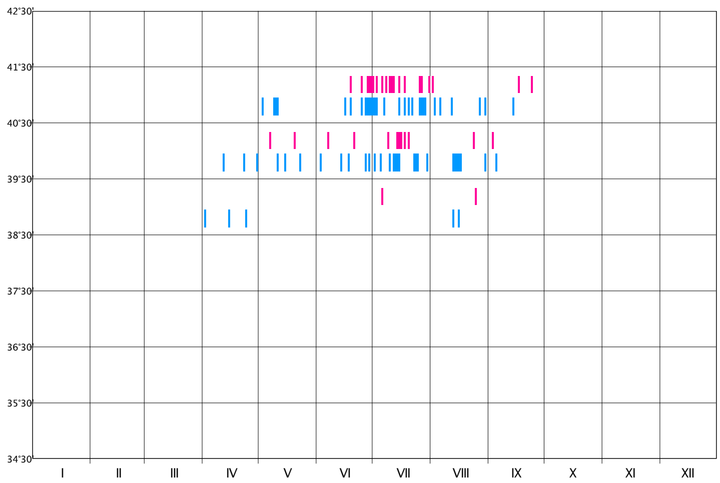


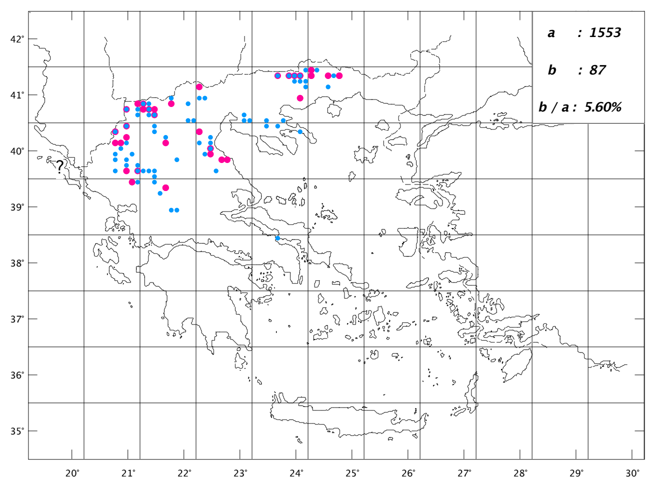


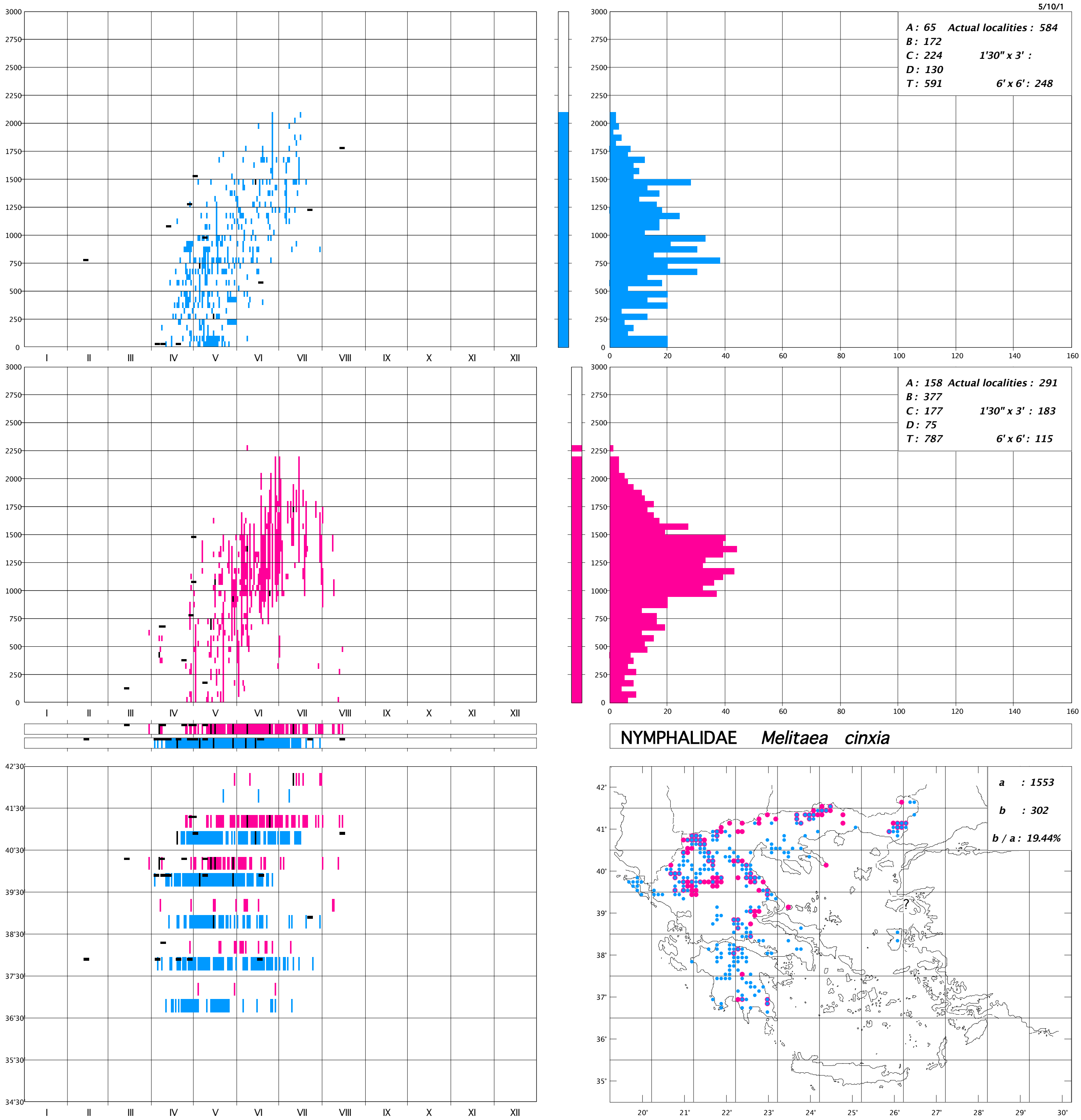




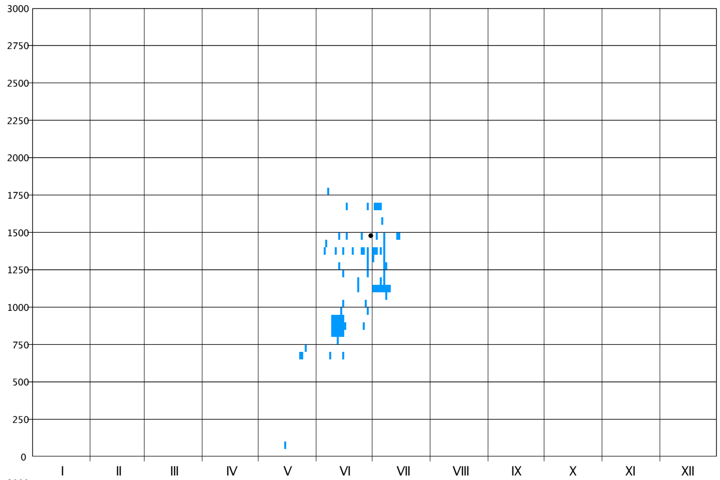
NYMPHALIDAE *Boloria dia*

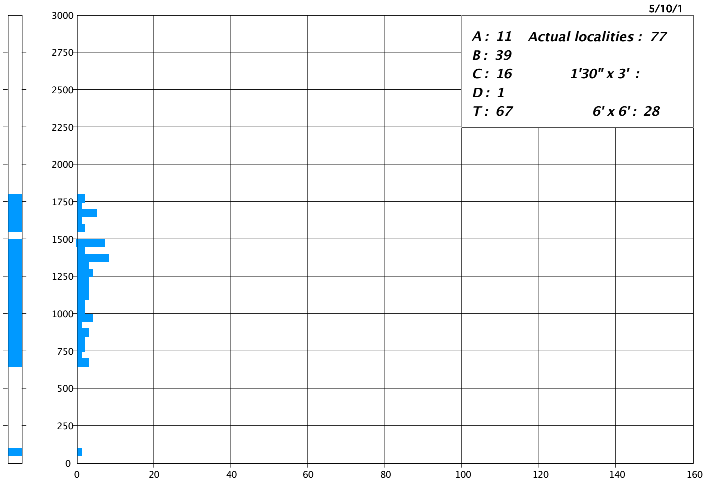


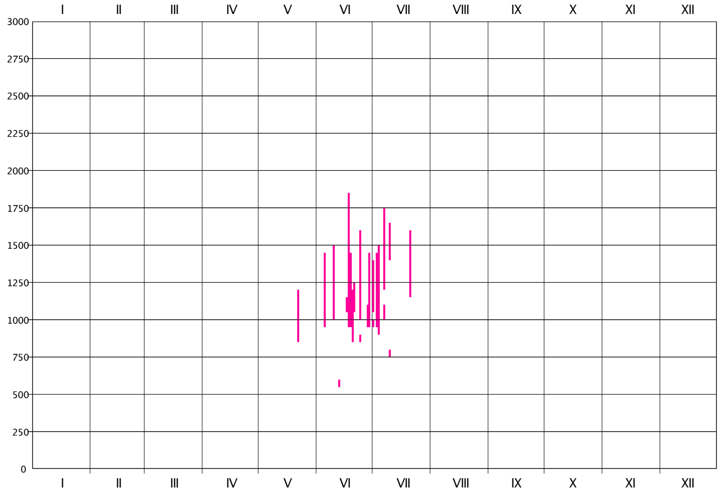


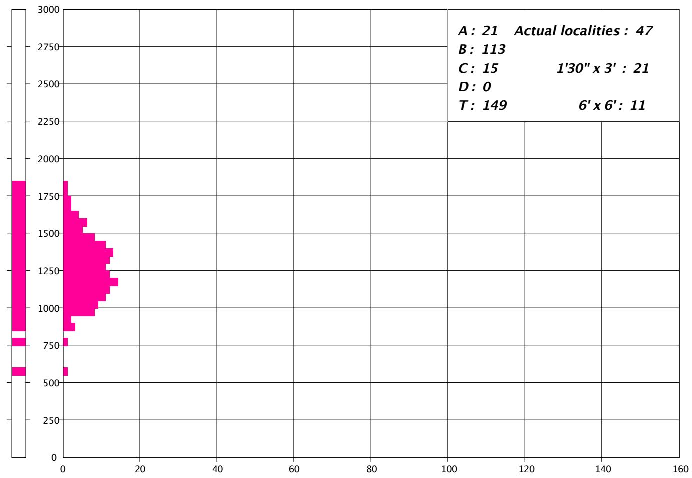


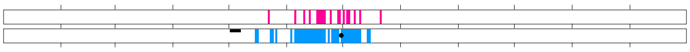
5/10/1
A : 65 Actual localities : 584
B : 172
C : 224 1'30" x 3' :
D : 130
T : 591 6' x 6' : 248
A : 158 Actual localities : 291
B : 377
C : 177 1'30" x 3' : 183
D : 75
T : 787 6' x 6' : 115
NYMPHALIDAE Melitaea cinxia
a : 1553
b : 302
b / a : 19.44%



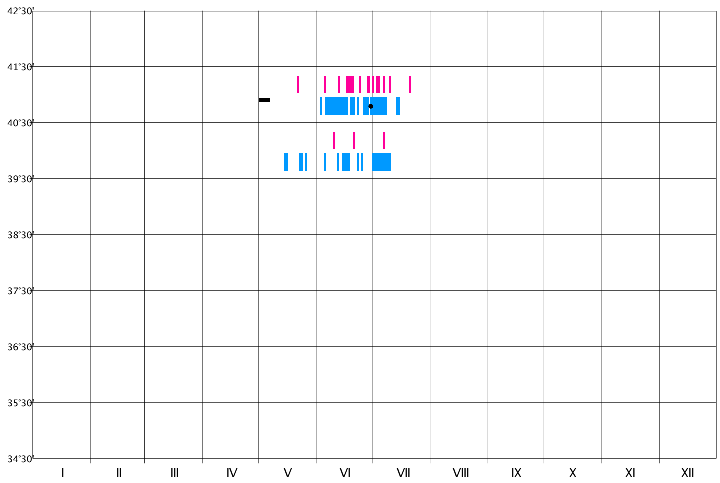


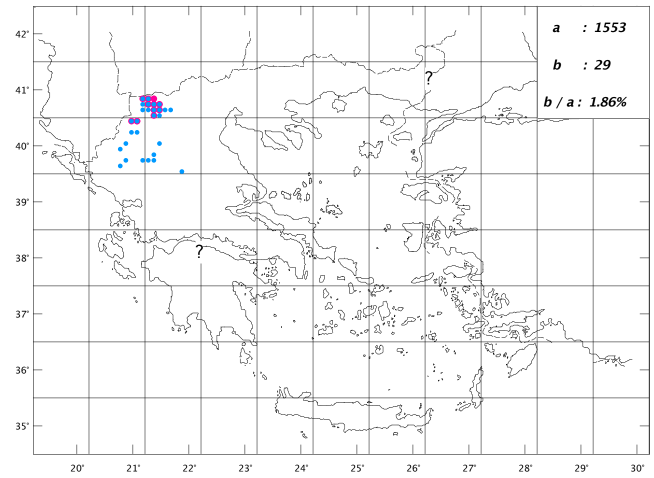


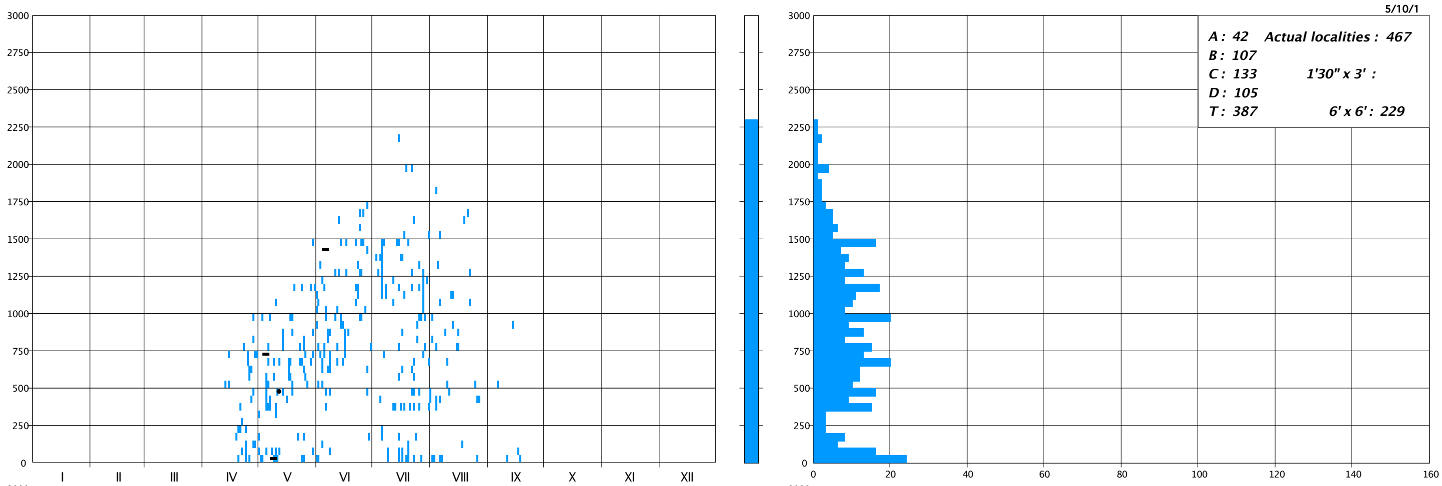


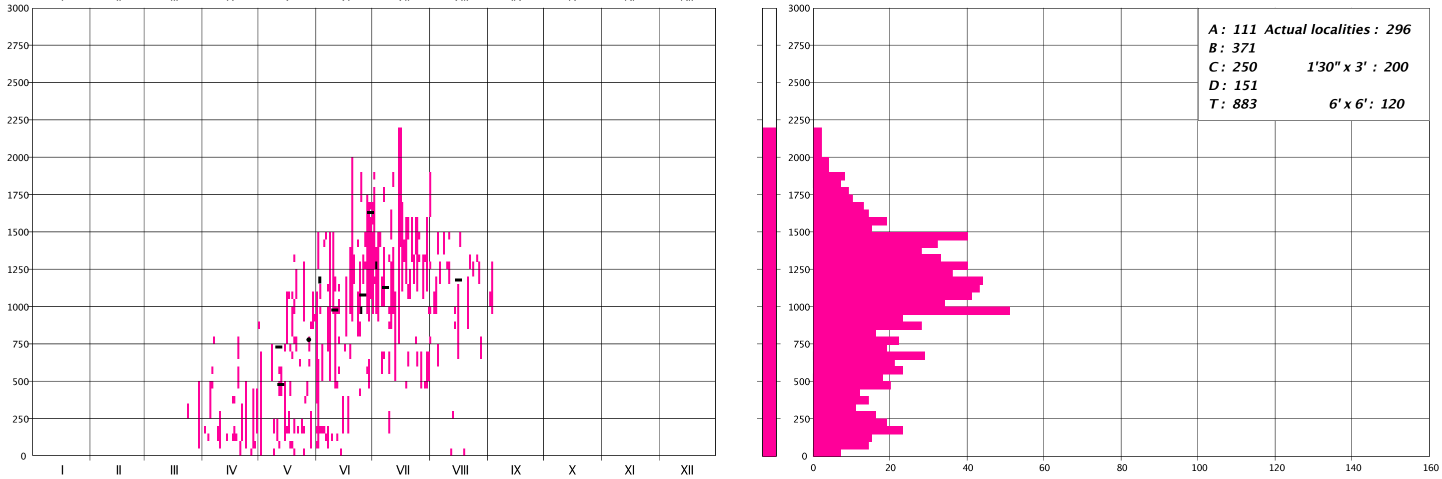


NYMPHALIDAE *Melitaea arduinna*

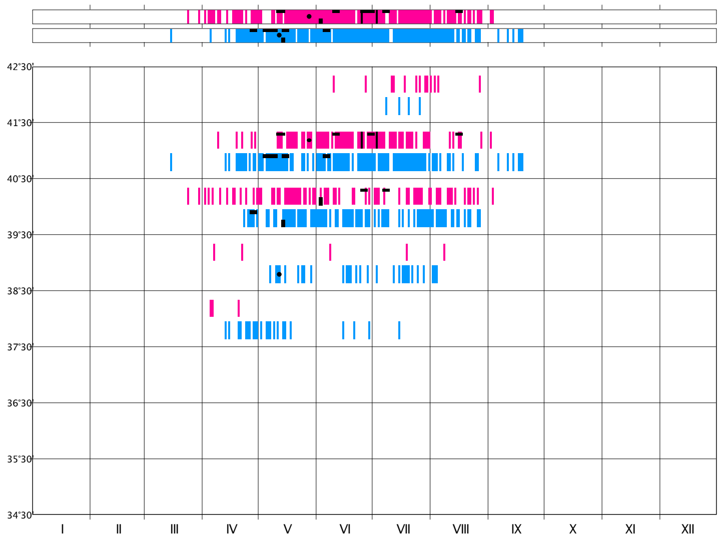


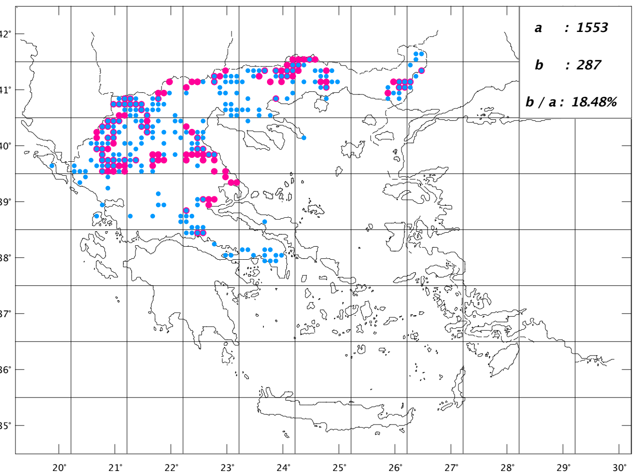


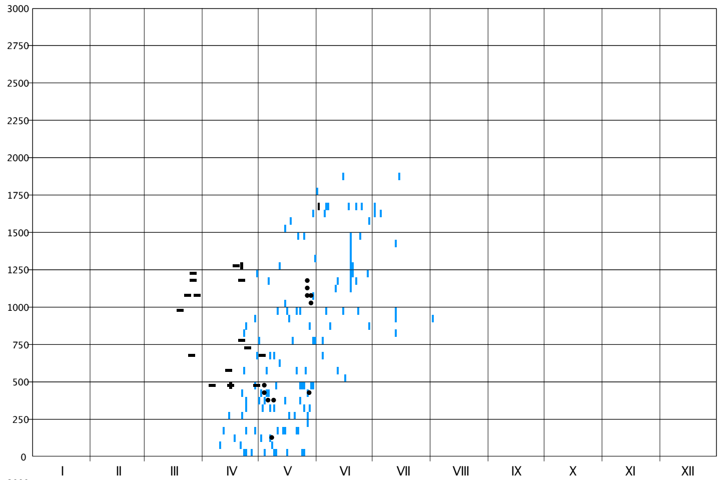


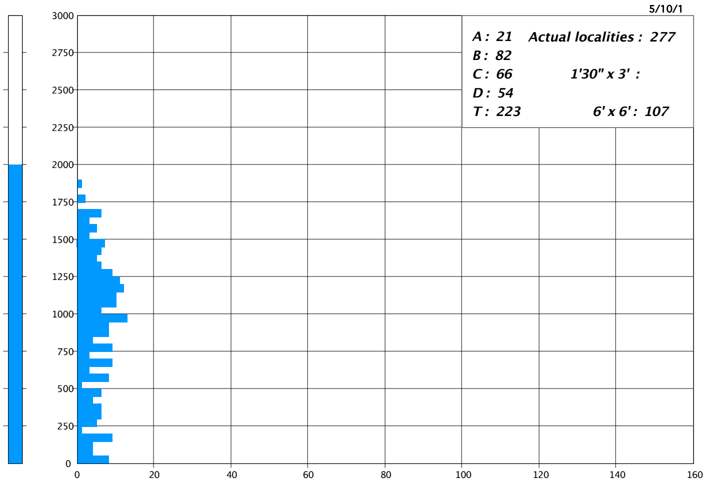


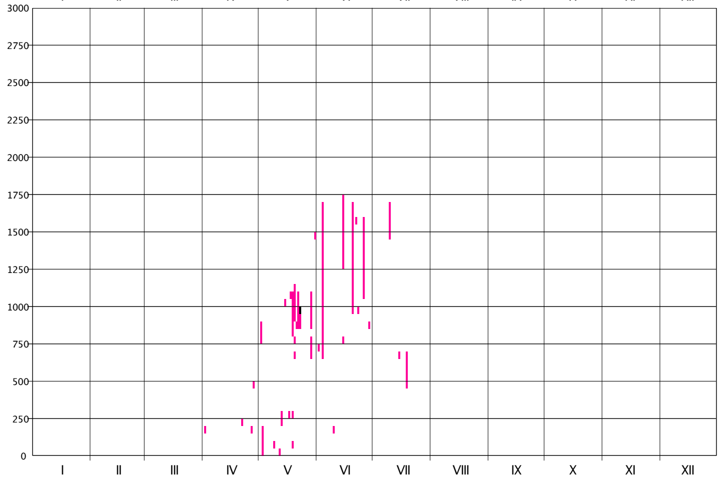
NYMPHALIDAE *Melitaea phoebe*

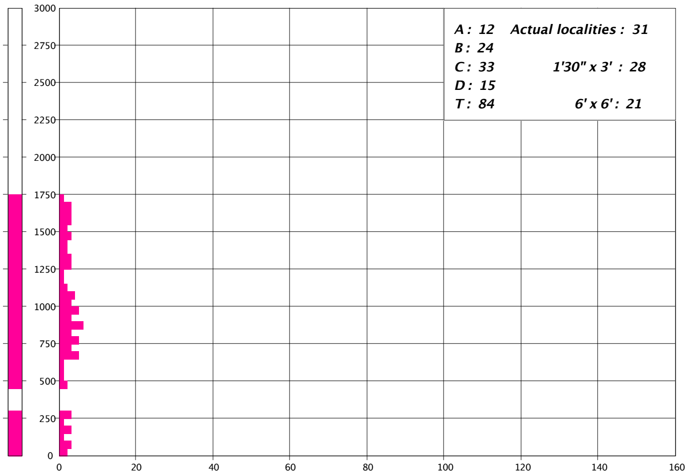


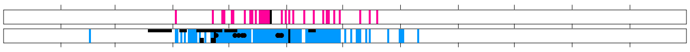




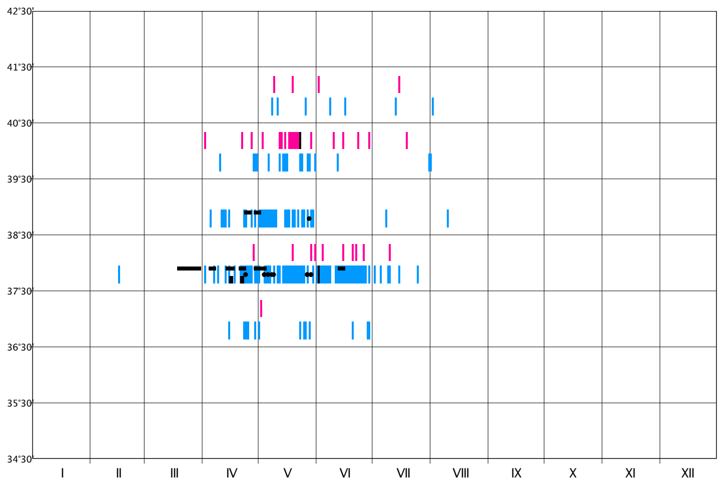


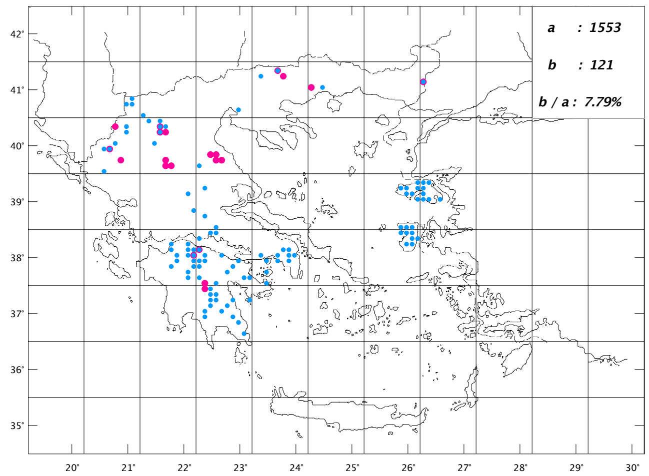


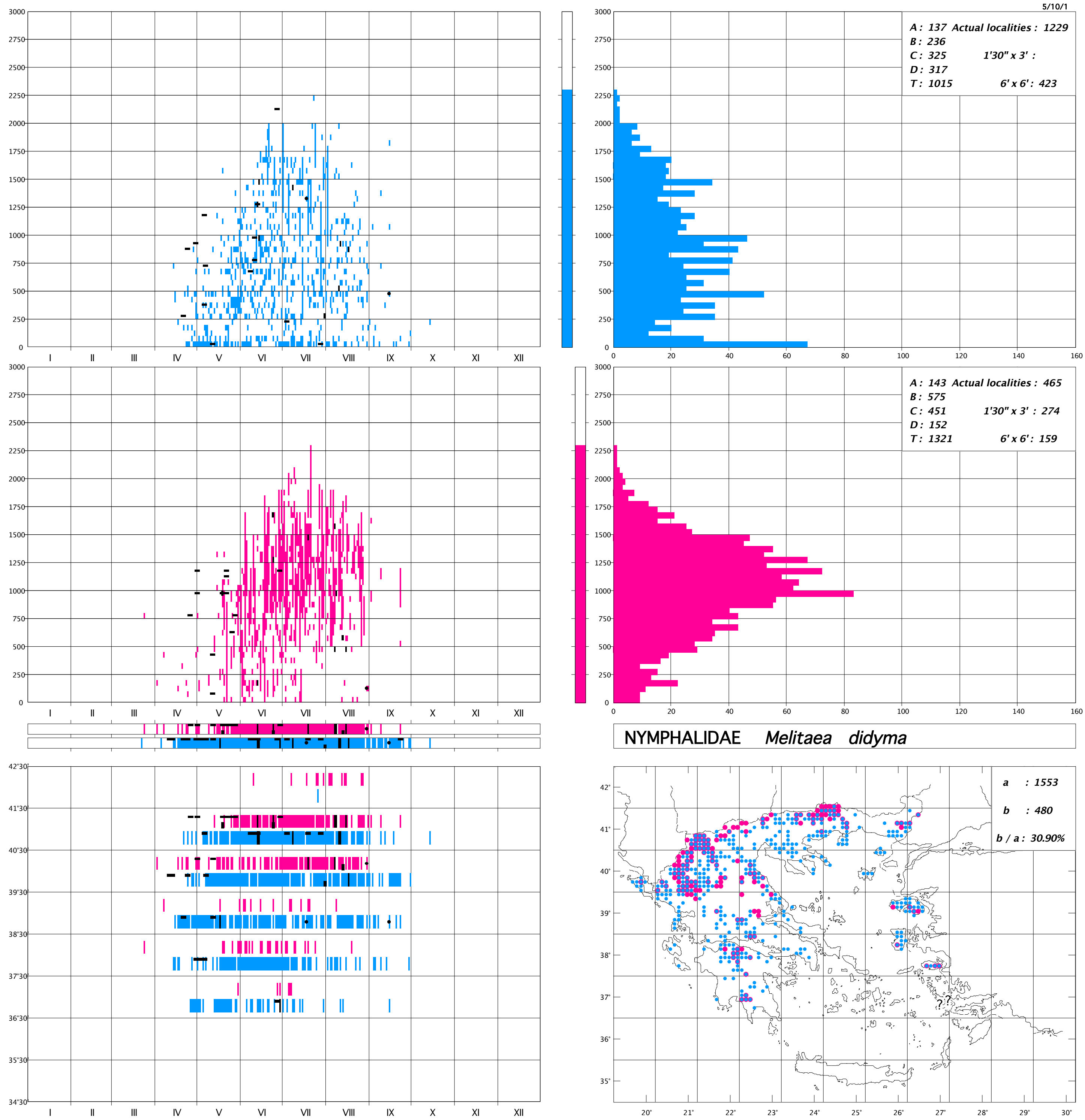


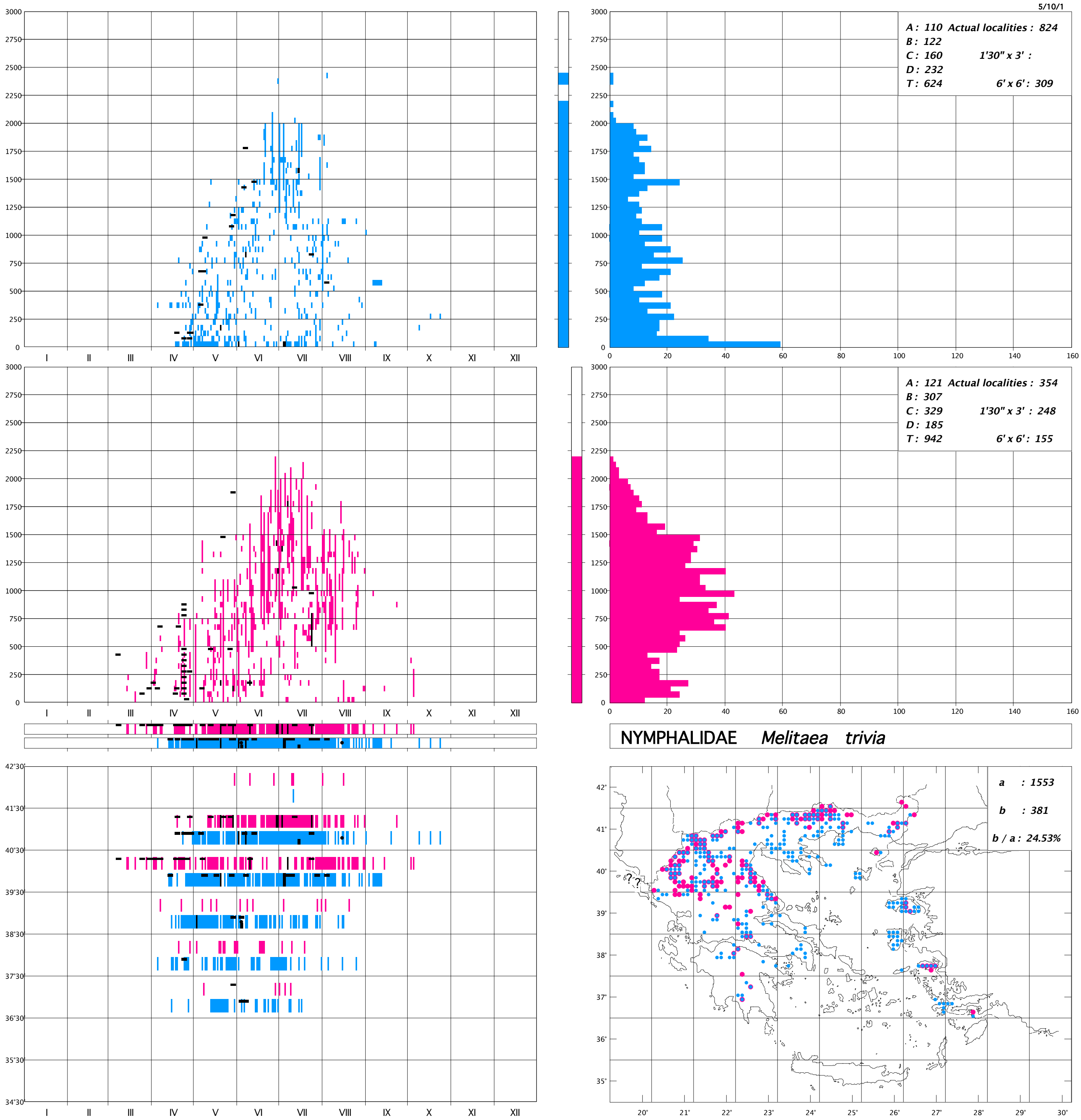


NYMPHALIDAE *Melitaea ornata*





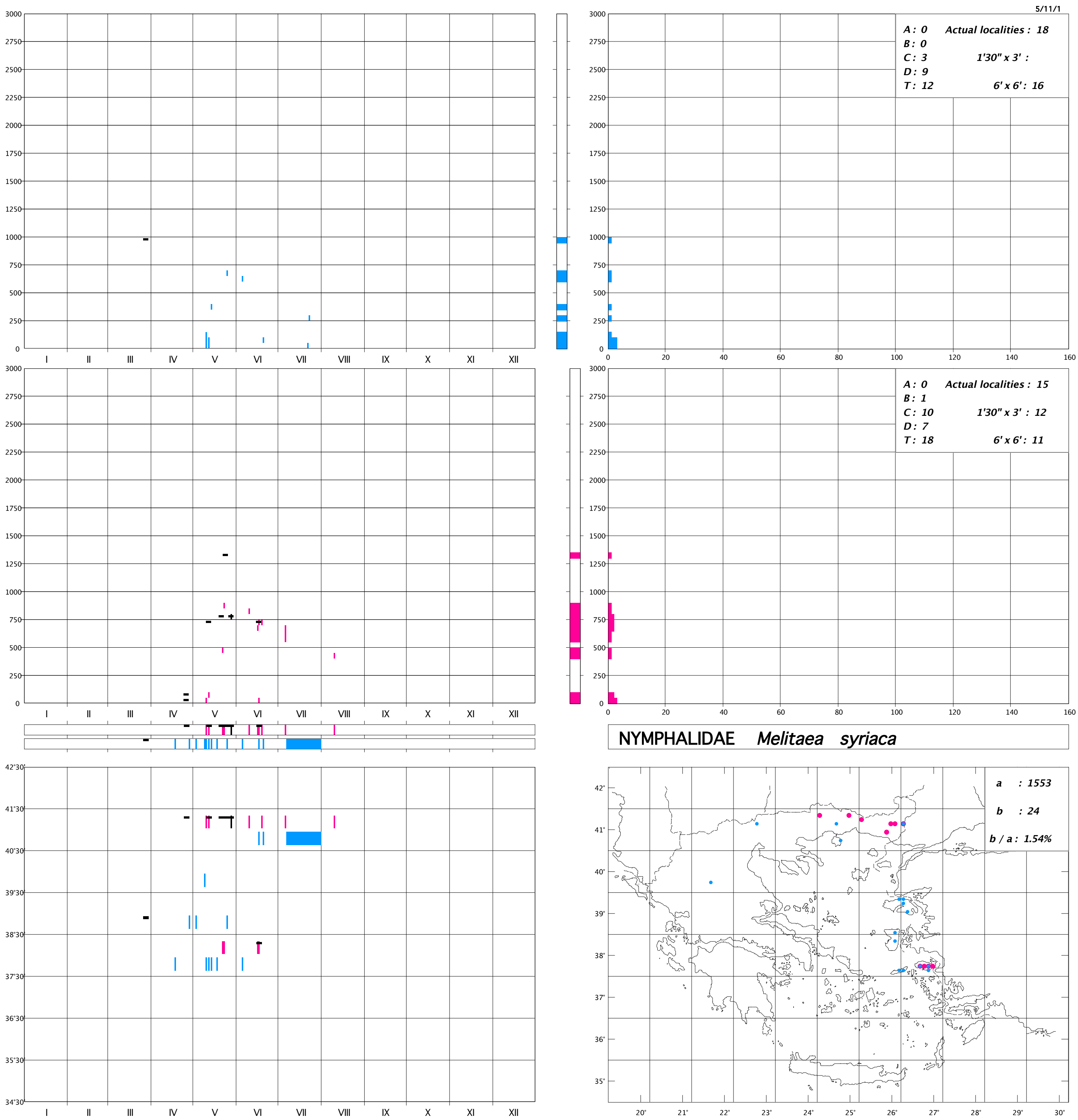

A : 137 Actual localities : 1229
B : 236
C : 325 1'30" x 3' :
D : 317
T : 1015 6' x 6' : 423
A : 143 Actual localities : 465
B : 575
C : 451 1'30" x 3' : 274
D : 152
T : 1321 6' x 6' : 159
NYMPHALIDAE Melitaea didyma
a : 1553
b : 480
b / a : 30.90%



Αμφίβολη αναγνώριση / Identification uncertain

The species *Melitaea syriaca* (with the same external characters of *Melitaea trivia*) found to fly mainly in Eastern Macedonia, Thrace and Eastern Aegean islands of Greece (see in van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)

Το είδος *Melitaea syriaca* (με τα ίδια εξωτερικά χαρακτηριστικά με το *Melitaea trivia*) βρέθηκε να πετά κυρίως στην Ανατολική Μακεδονία, στην Θράκη και στα νησιά του Ανατολικού Αιγαίου της Ελλάδας (δες στο van Oorschot, H. and J. Coutsis: The Genus Melitaea Fabricius, 1807 (Lepidoptera: Nymphalidae, Nymphalinae), Taxonomy and systematics with special reference to the male genitalia, Tsikolovets Publications, 2014)



Αμφίβολη αναγνώριση / Identification uncertain

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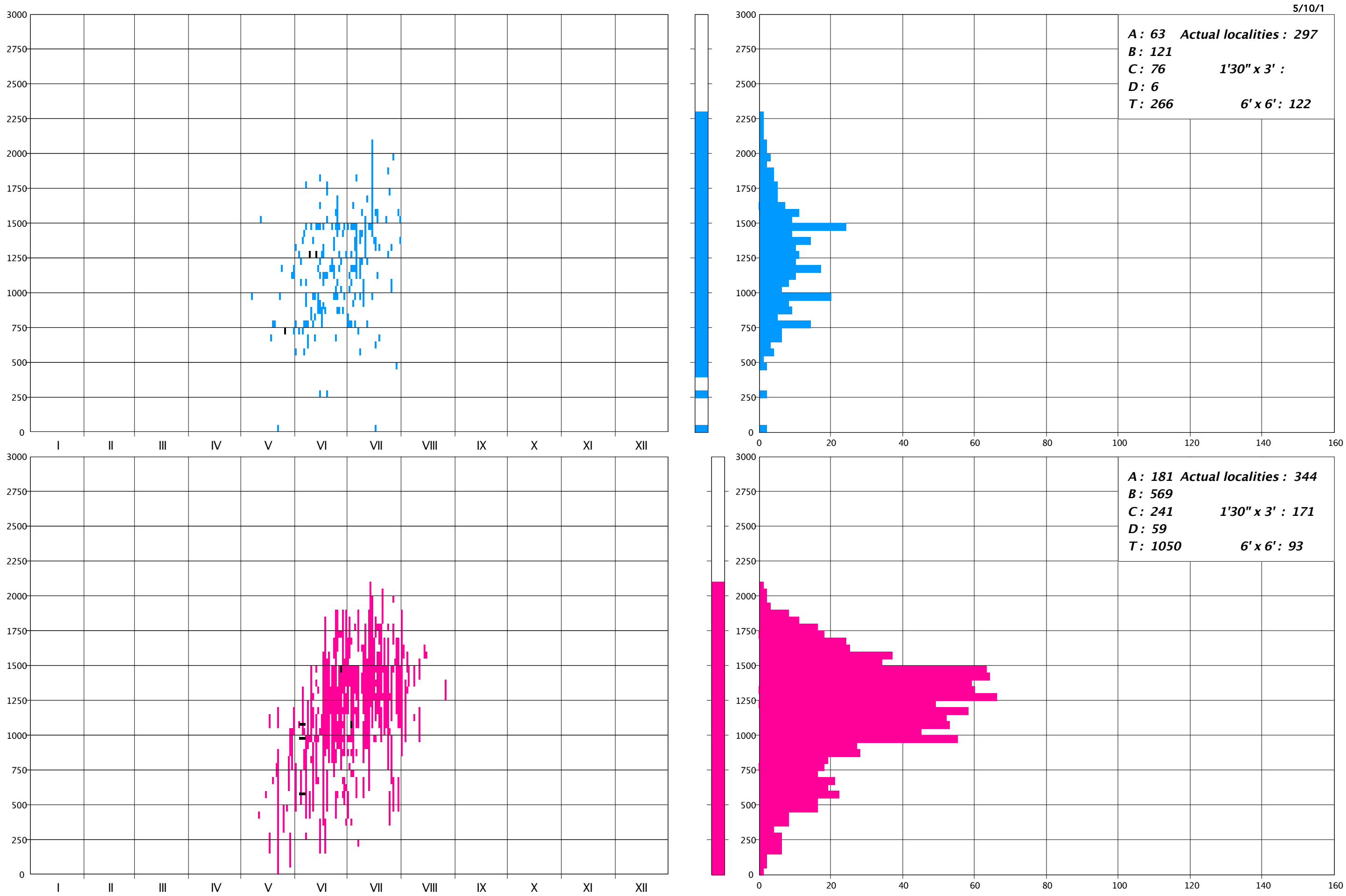
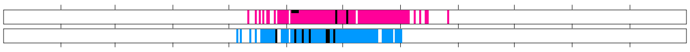
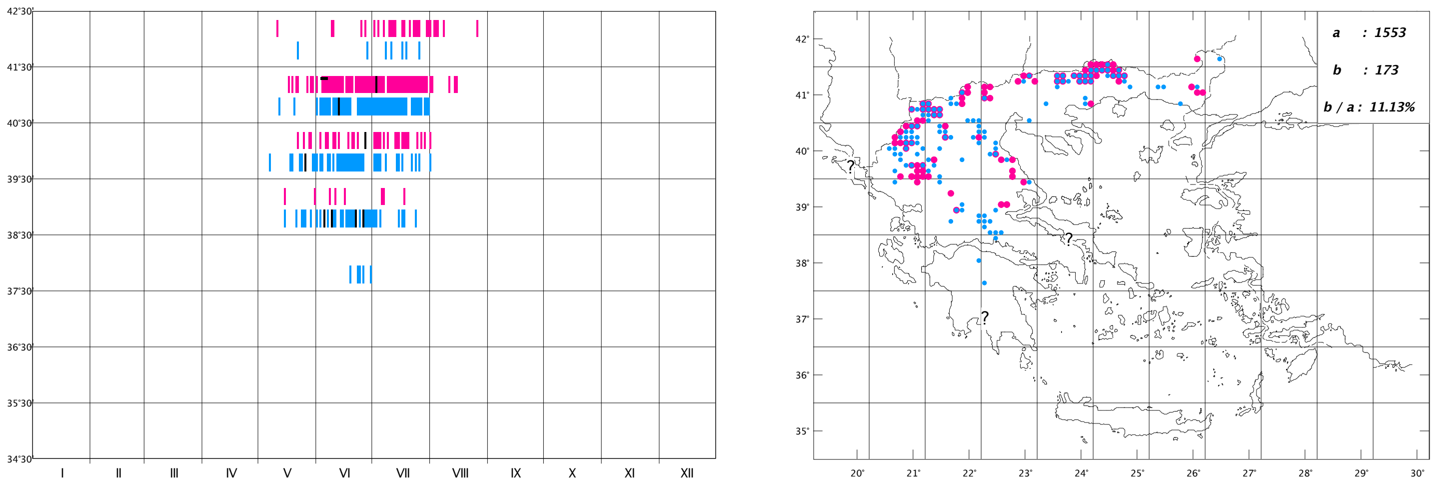
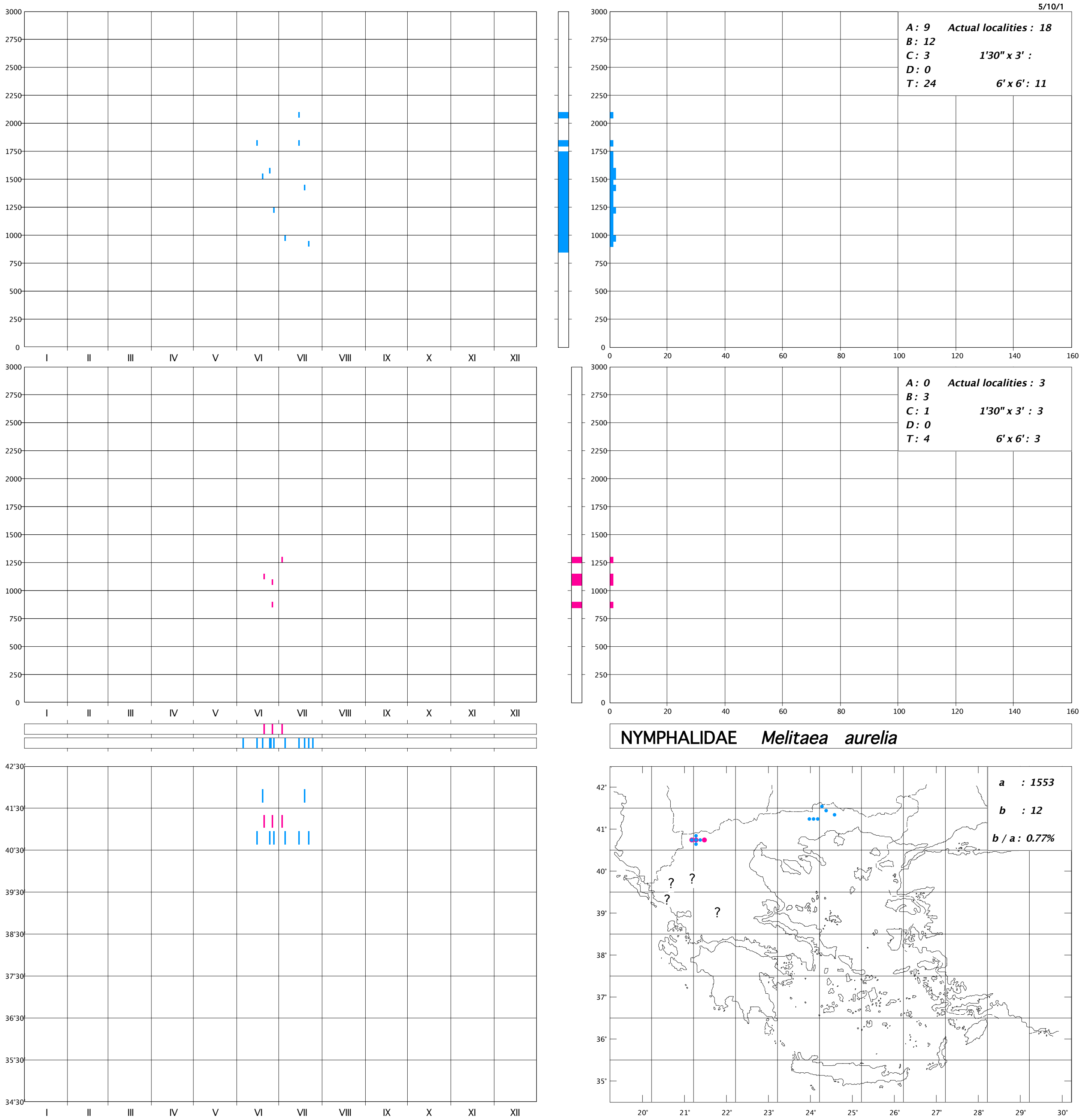


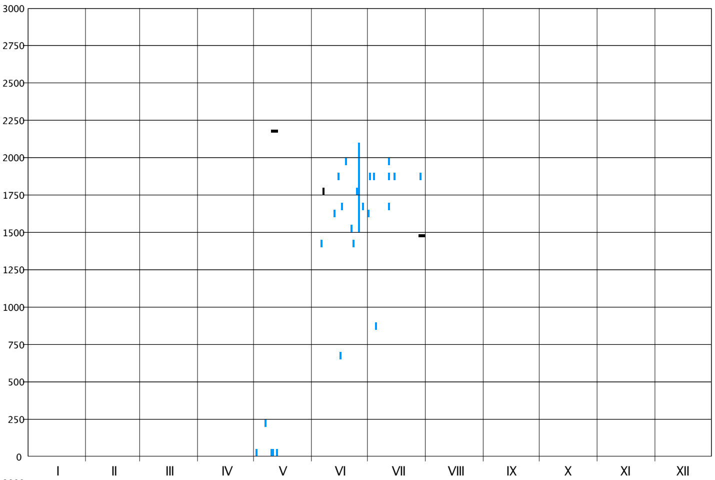


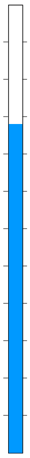
NYMPHALIDAE *Melitaea athalia*

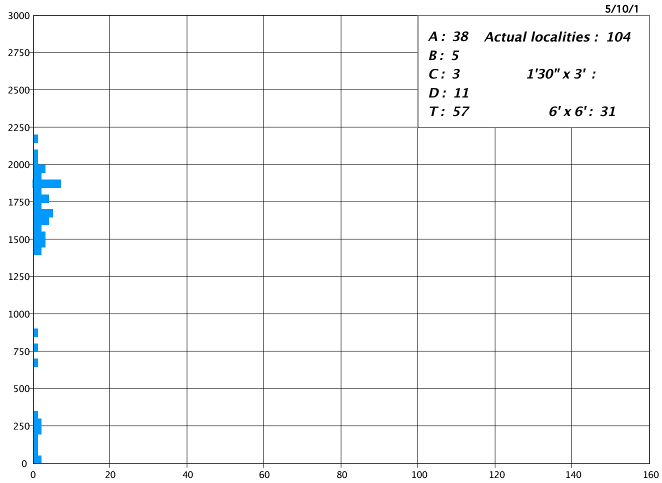


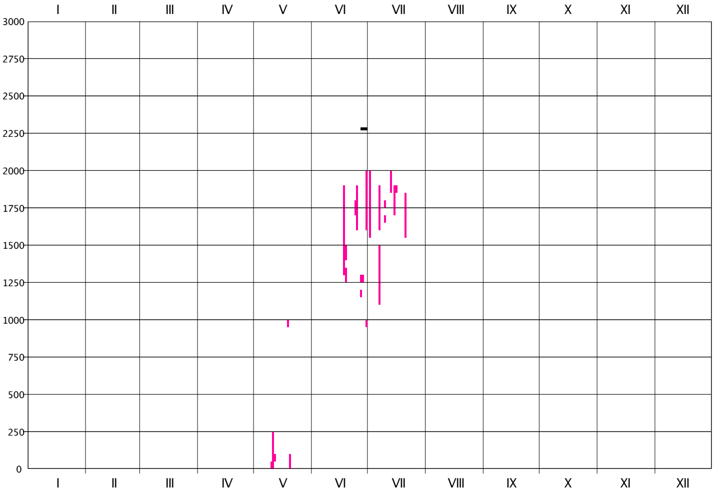
NYMPHALIDAE *Melitaea aurelia*

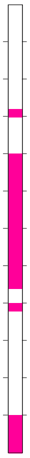


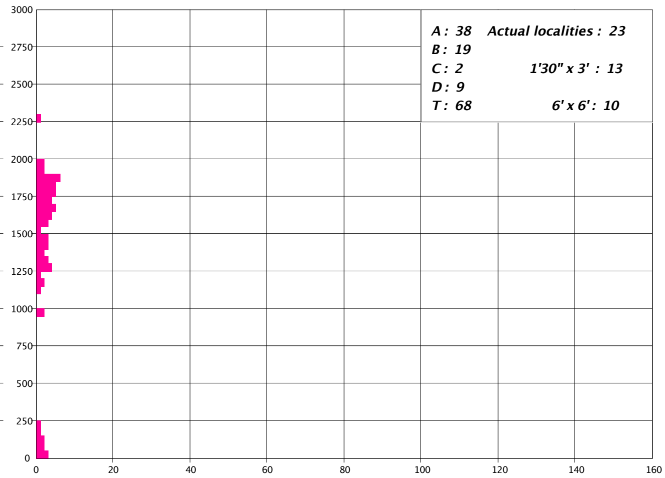


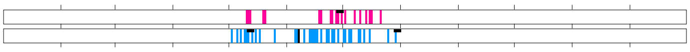




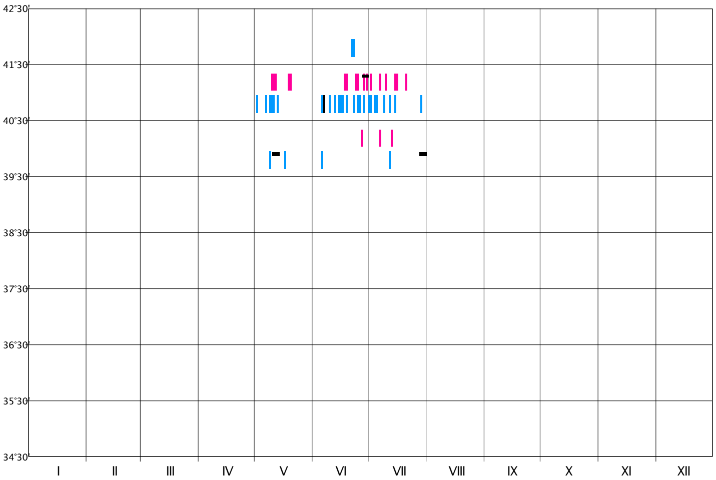


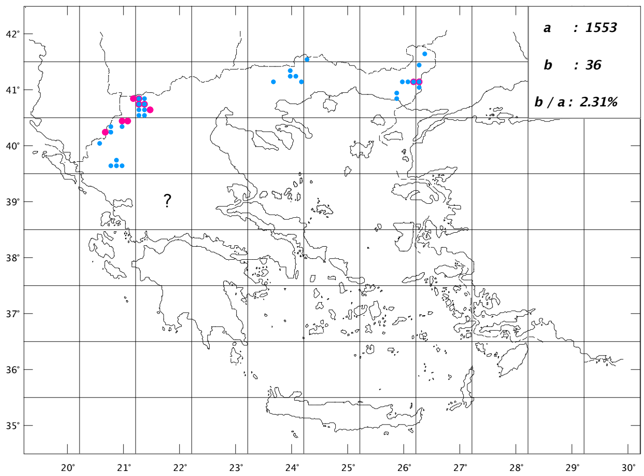


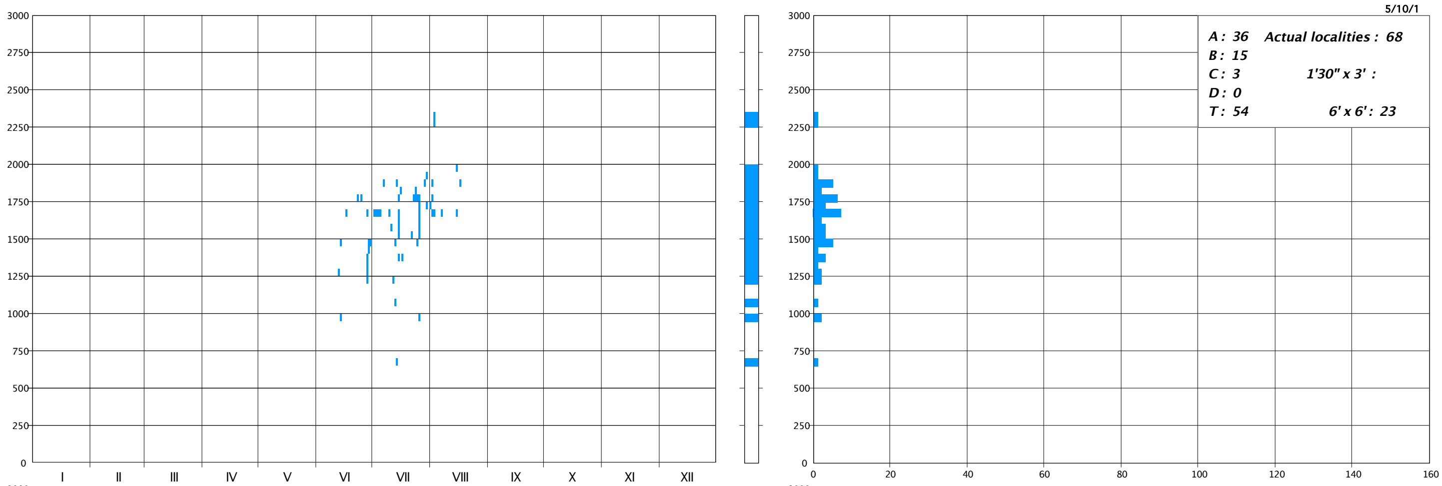


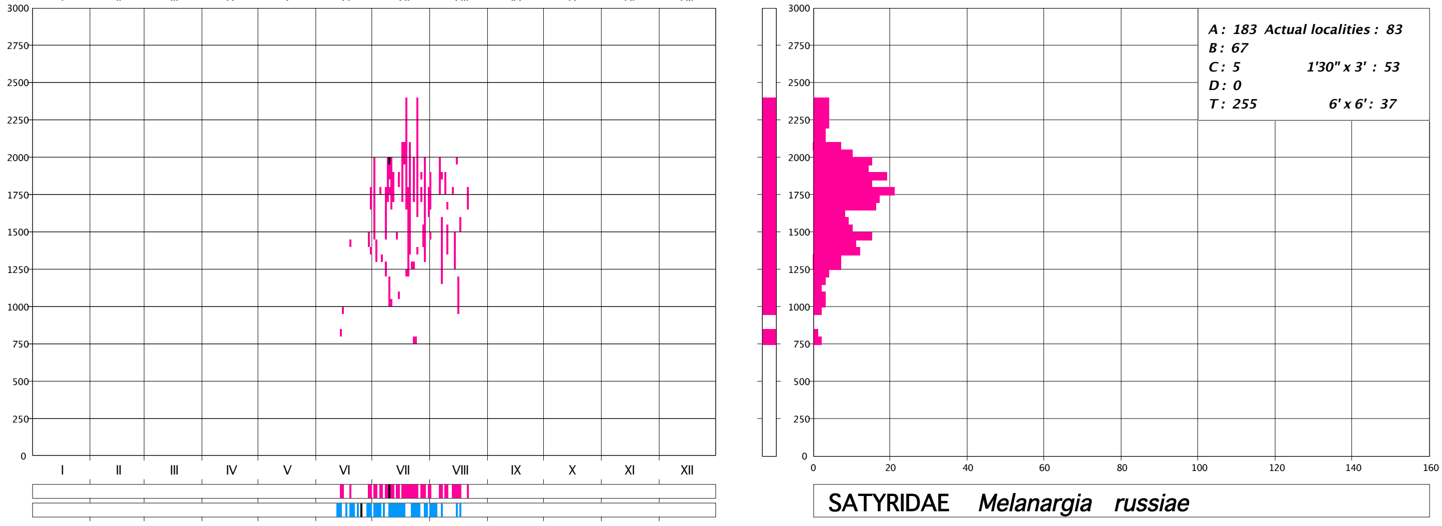


NYMPHALIDAE *Eurodryas aurinia*

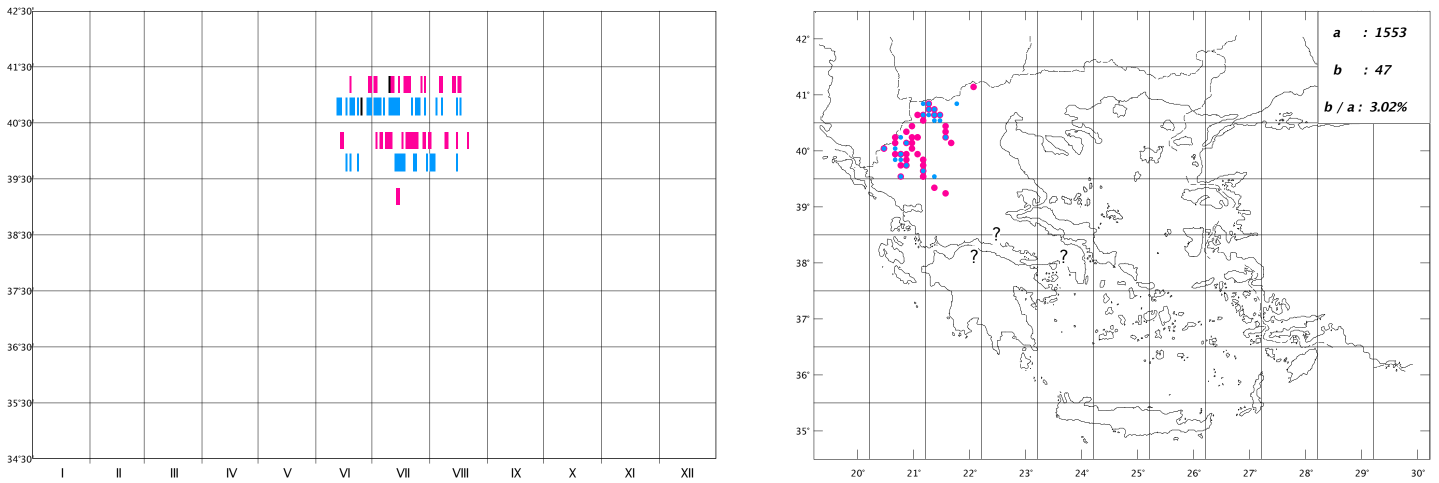


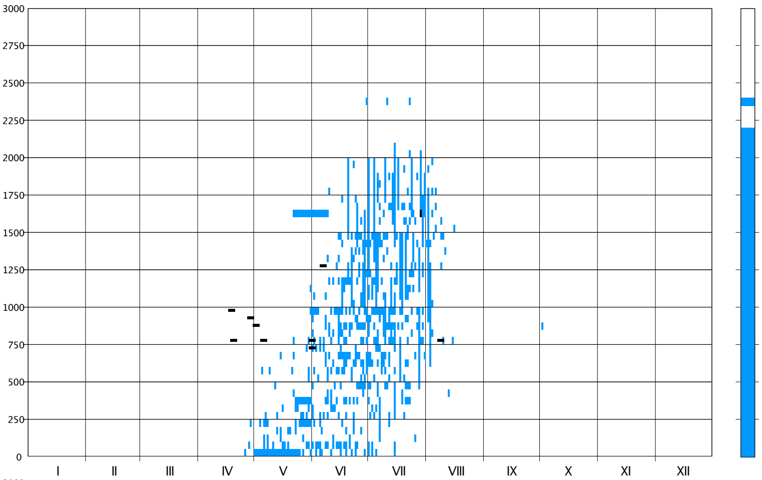


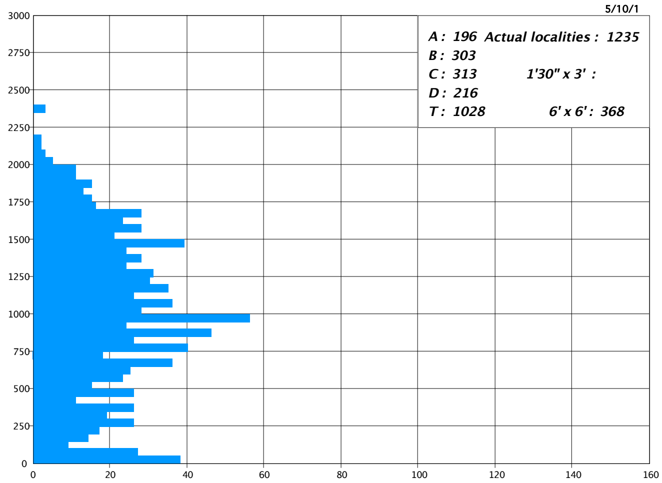


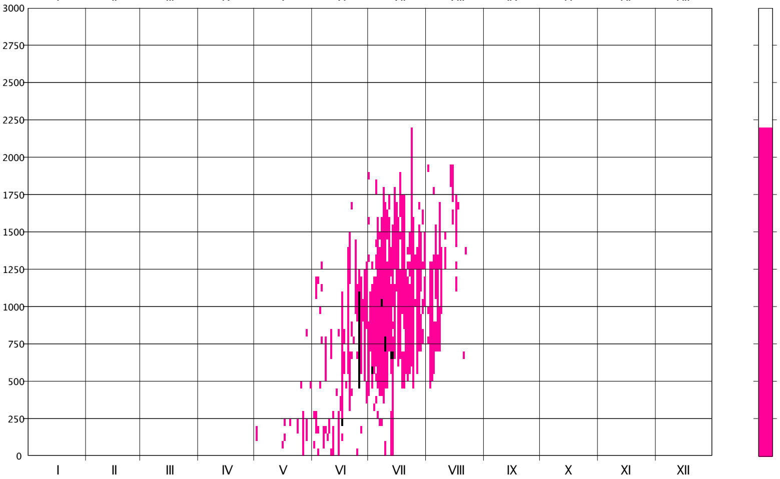


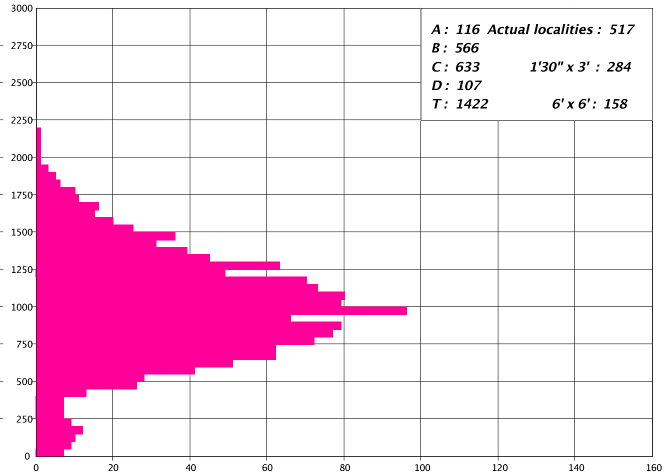
SATYRIDAE *Melanargia russiae*



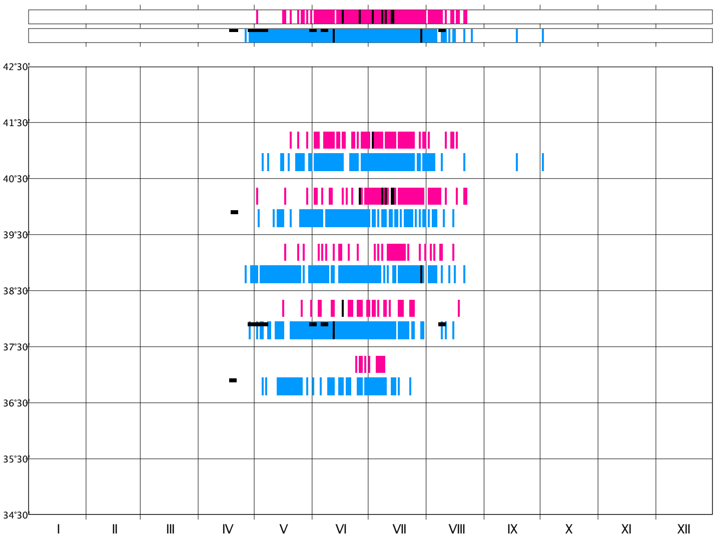


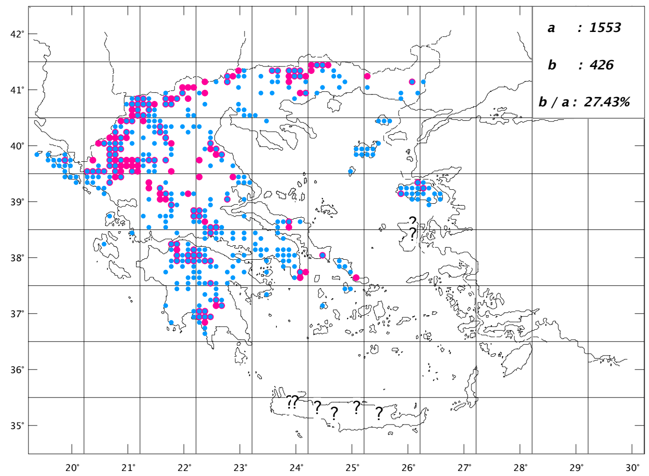


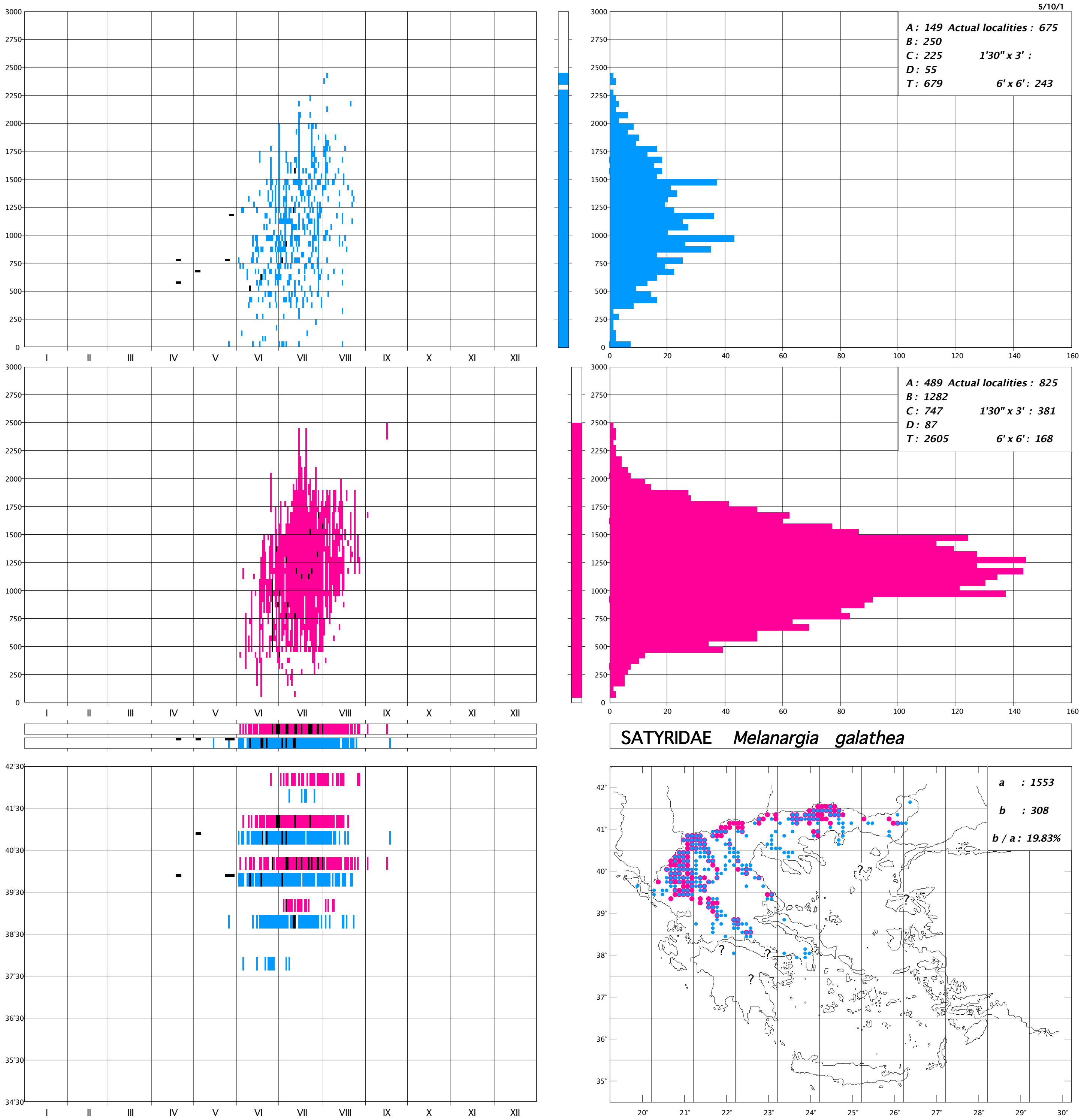


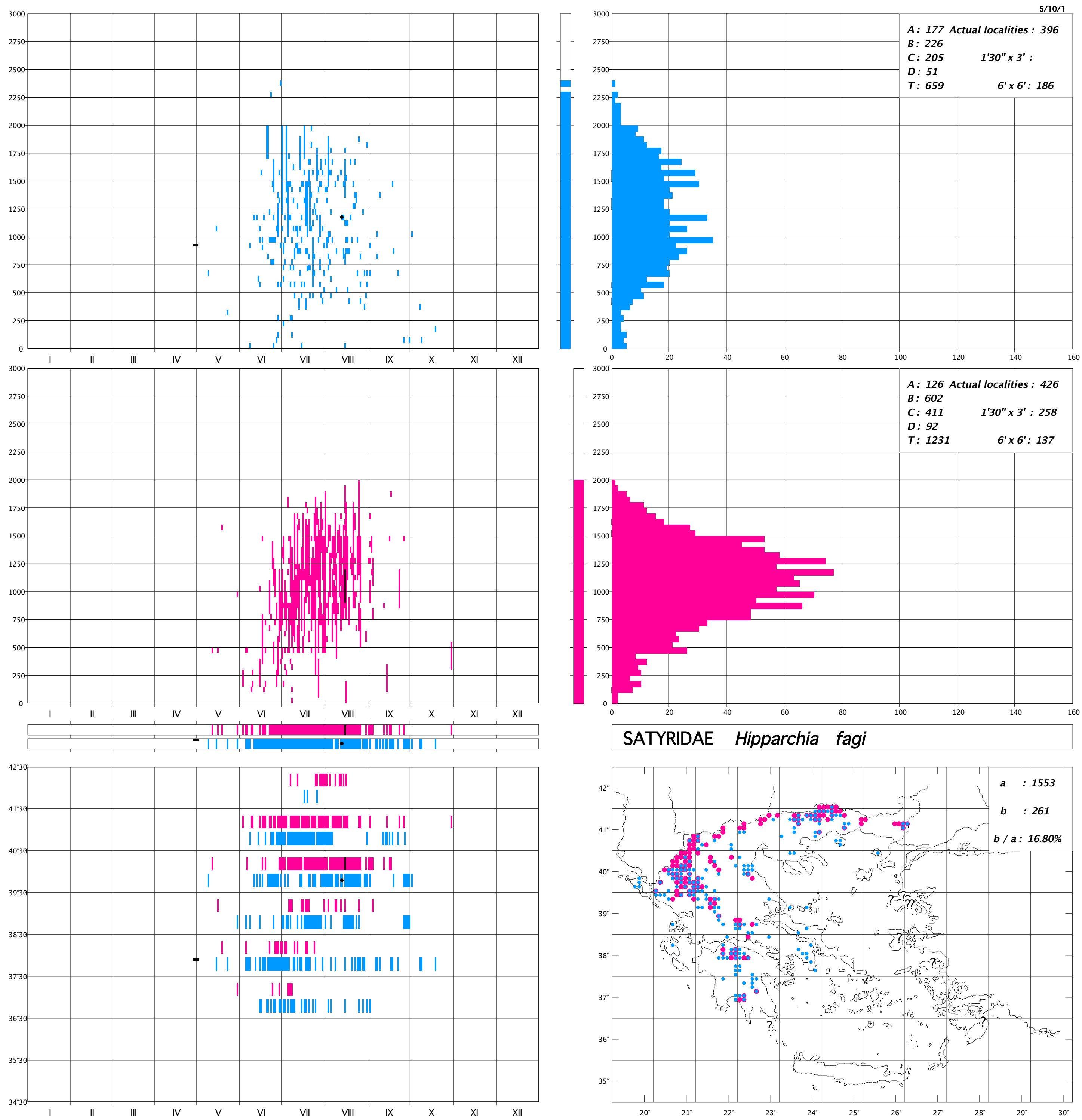


SATYRIDAE *Melanargia larissa*






A : 149 Actual localities : 675
B : 250
C : 225 1'30" x 3' :
D : 55
T : 679 6' x 6' : 243
A : 489 Actual localities : 825
B : 1282
C : 747 1'30" x 3' : 381
D : 87
T : 2605 6' x 6' : 168
SATYRIDAE *Melanargia galathea*
a : 1553
b : 308
b / a : 19.83%
I II III IV V VI VII VIII IX X XI XII



Separation by external characters only of *Hipparchia fagi* and *Hipparchia syriaca* has been questioned (see in DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological Sciences.Published online before print August 11, 2010, doi:10.1098/rspb.2010.1089.)

Ο διαχωρισμός των *Hipparchia fagi* και *Hipparchia syriaca* με βάσει τα εξωτερικά χαρακτηριστικά αμφισβητήθηκε (δες στο DINCĂ, VLAD, EVGENY V. ZAKHAROV, PAUL D. N. HEBERT & ROGER VILA: Complete DNA barcode reference library for a country's butterfly fauna reveals high performance for temperate Europe. Proceedings of The Royal Society Biological SciencesPublished online before print August 11, 2010, doi:10.1098/rspb.2010.1089.)

See also in http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

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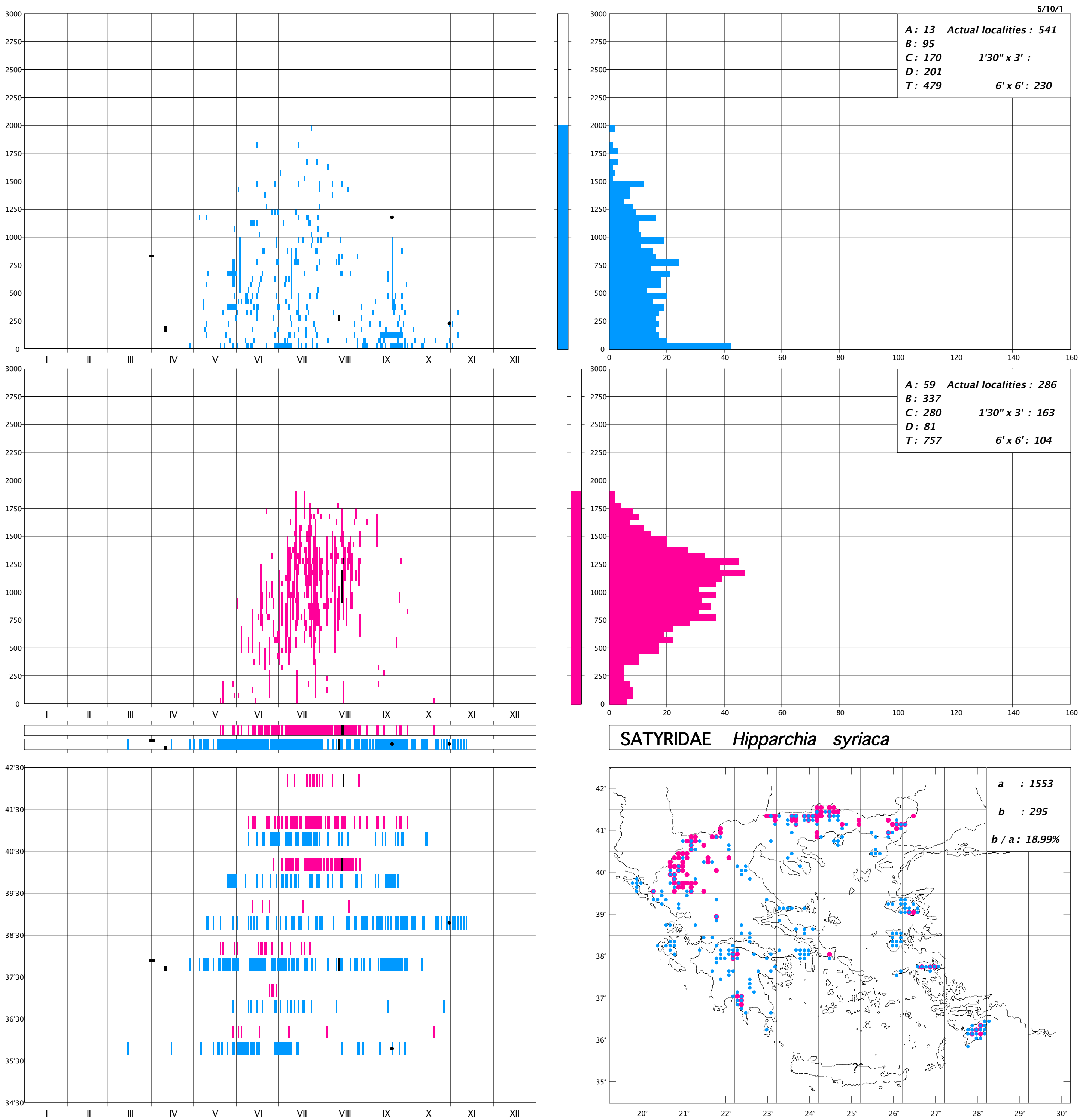

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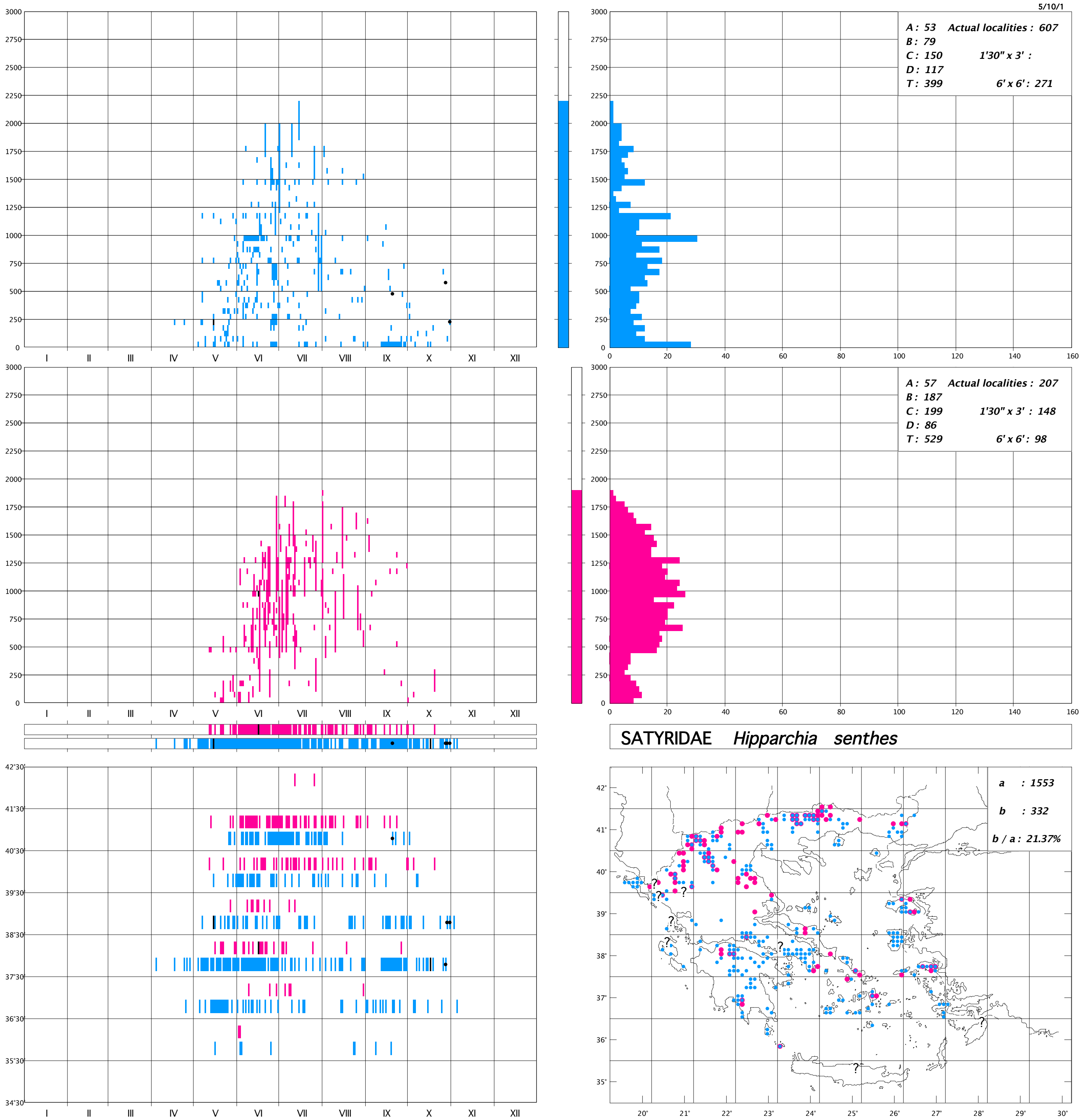
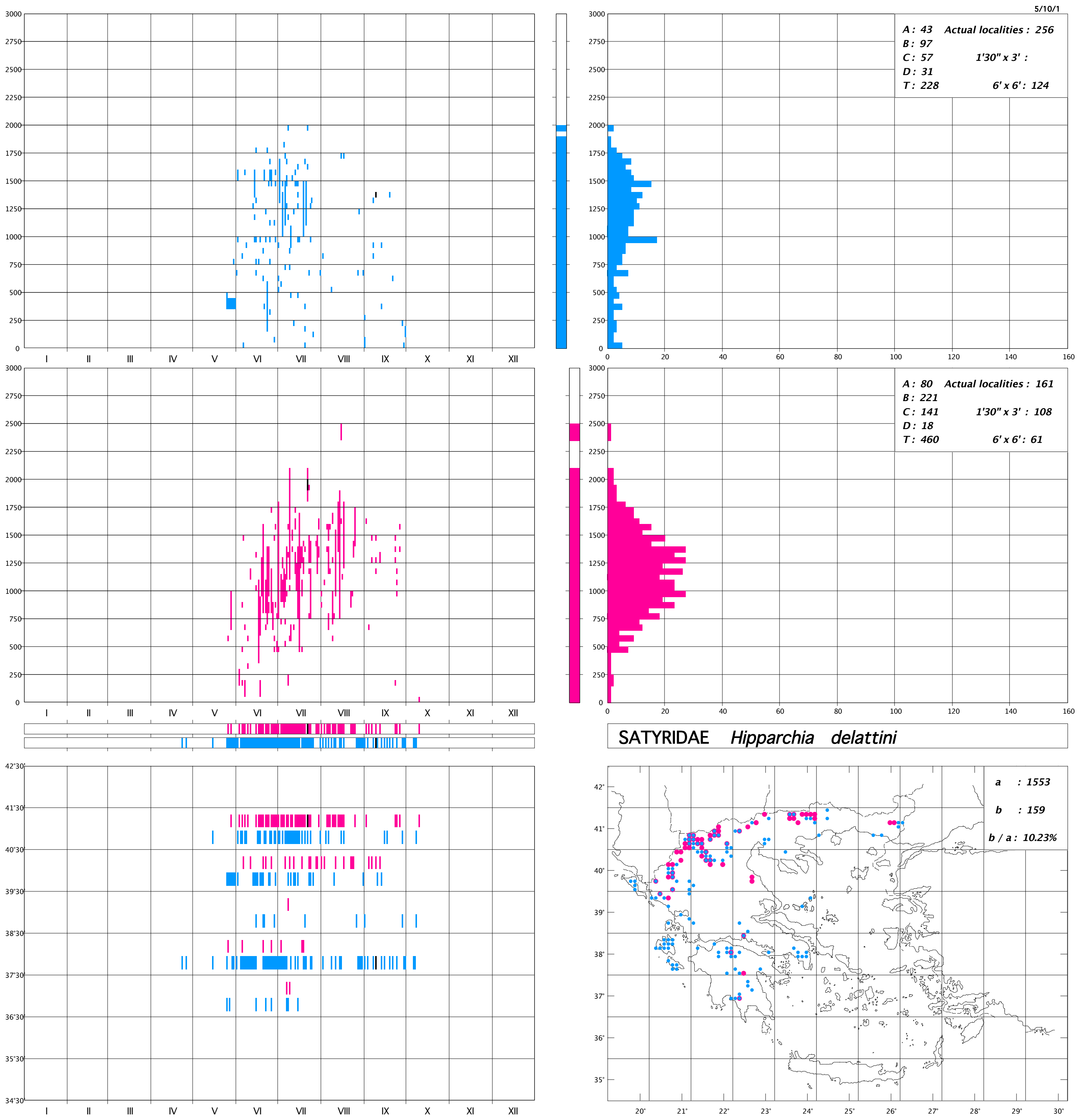
See also in http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

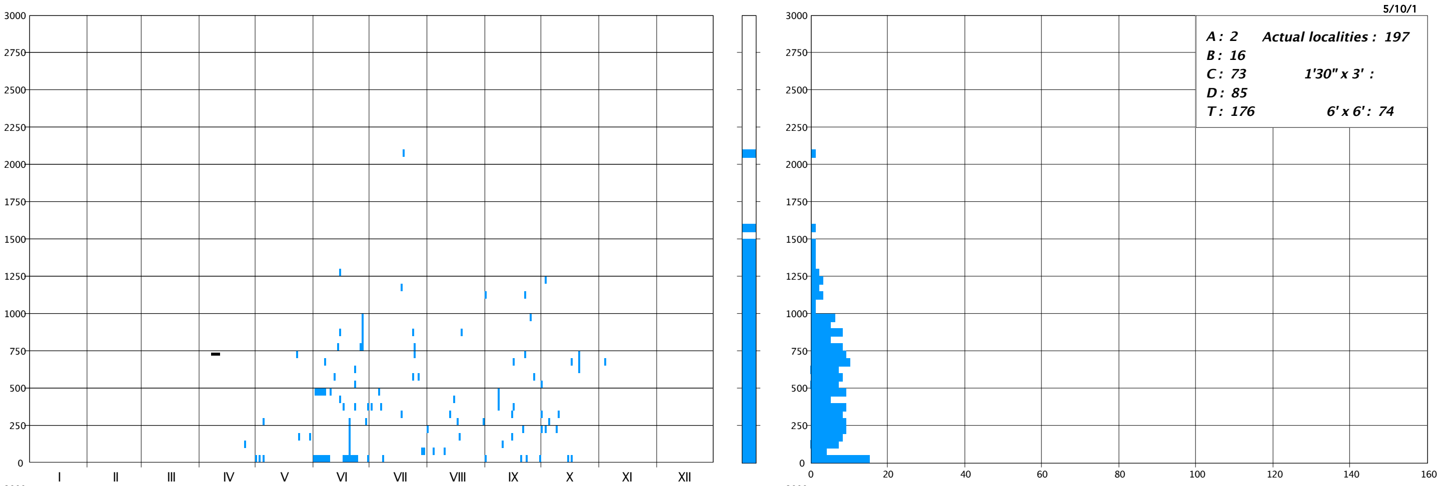
Δες επισης στο http://www.pamperis.gr/THE_BUTTERFLIES_OF_GREECE/Morphometrics_of_Hipparchia_fagi_and_H._syriaca.html

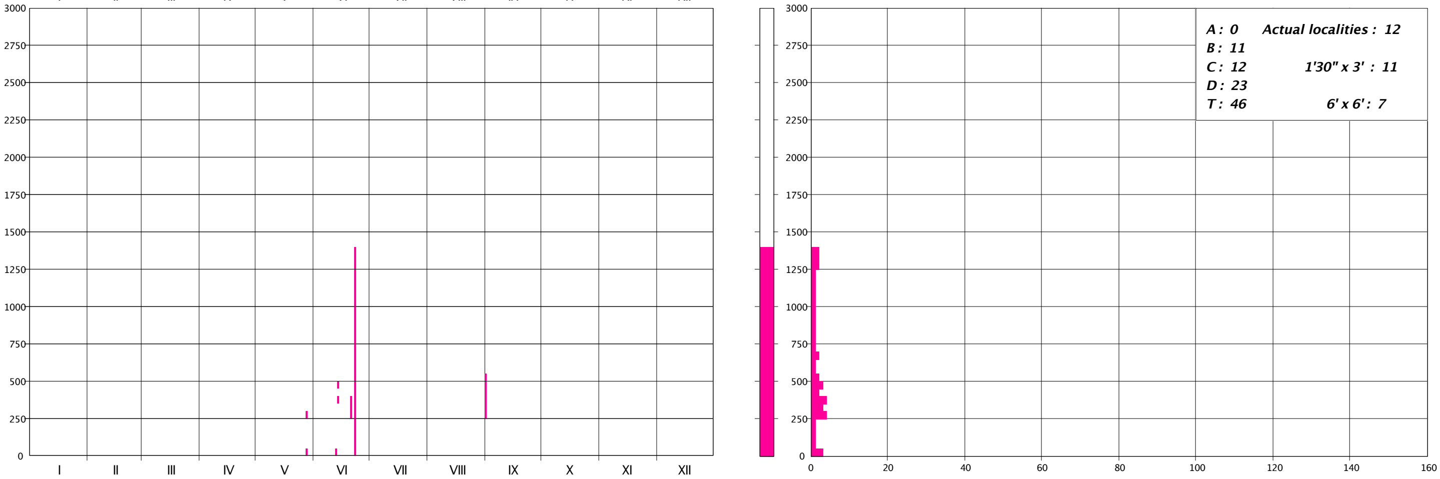


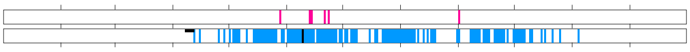
Αμφίβολη αναγνώριση / Identification uncertain



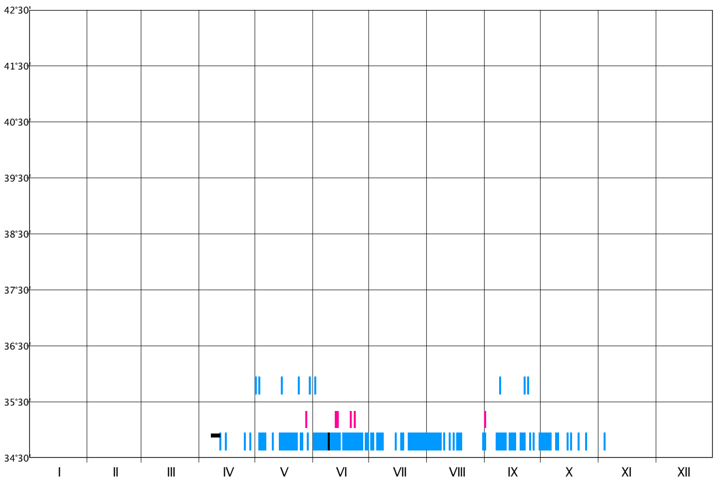
Αμφίβολη αναγνώριση / Identification uncertain

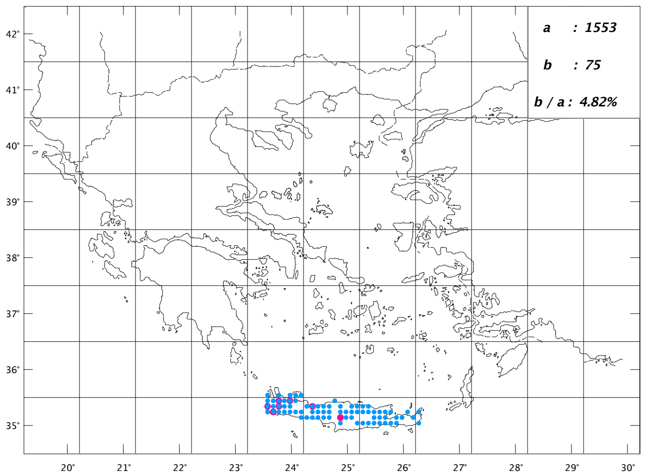


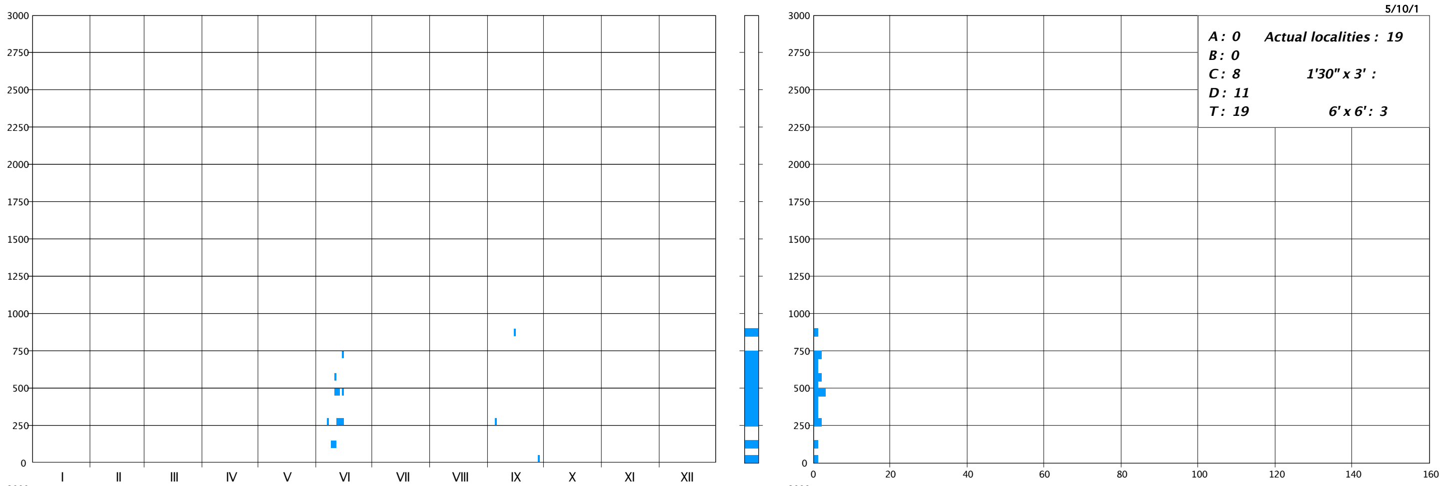


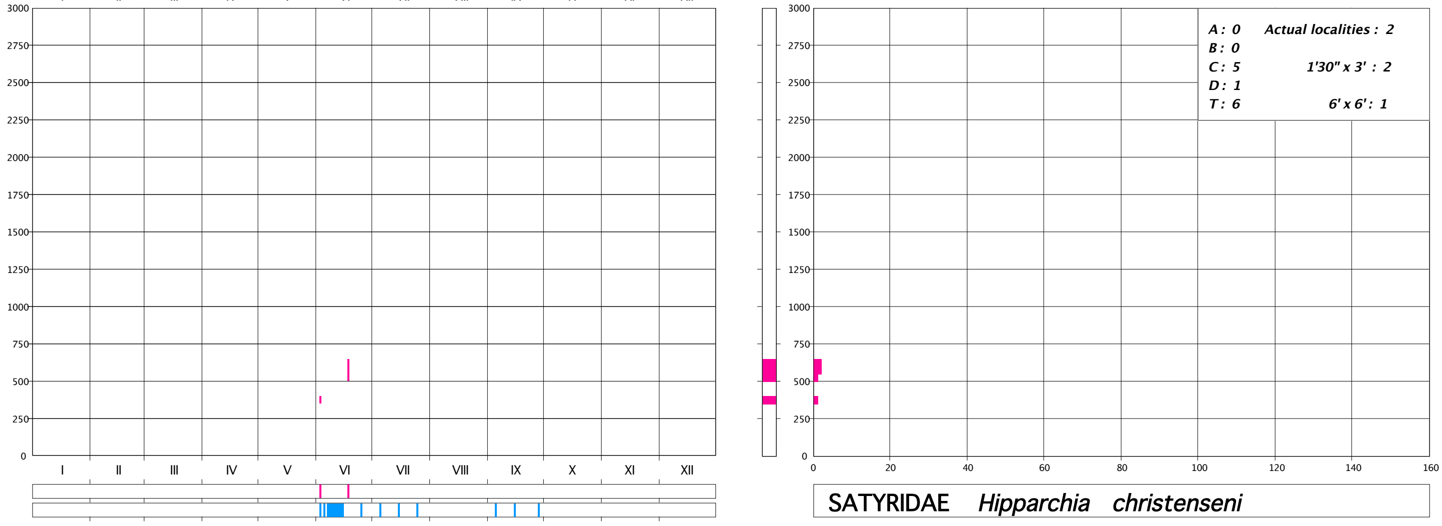


SATYRIDAE *Hipparchia cretica*

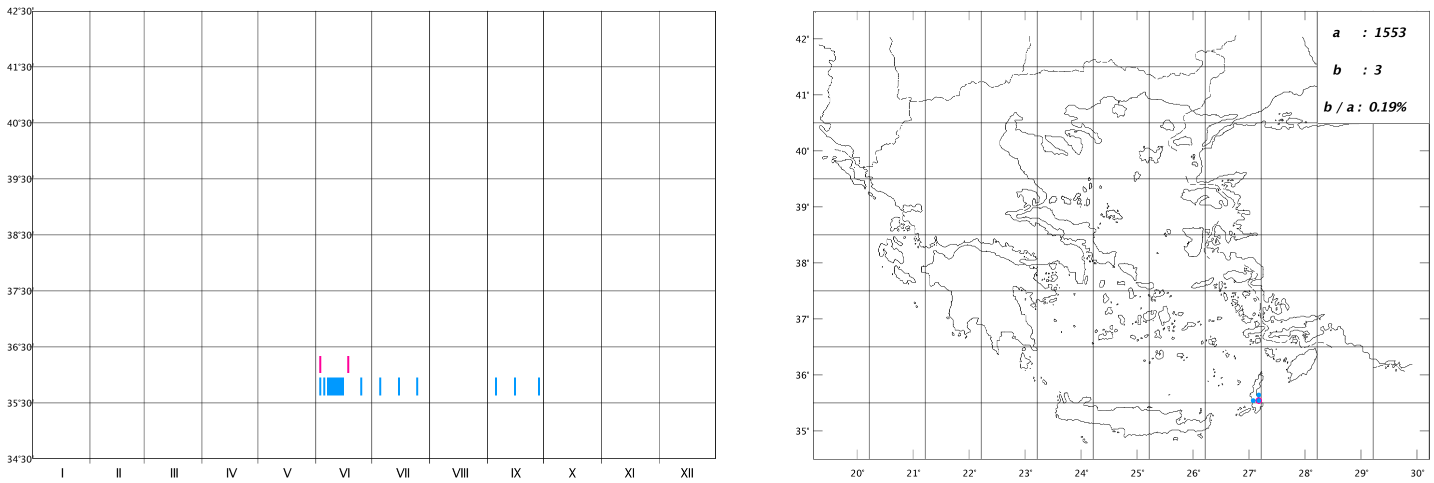


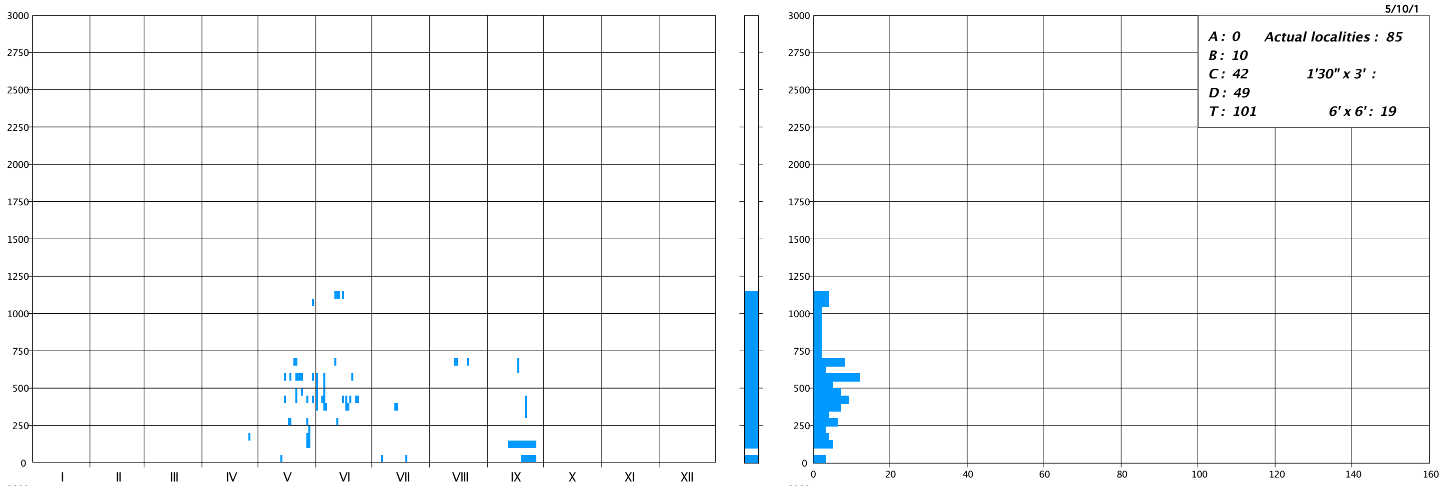


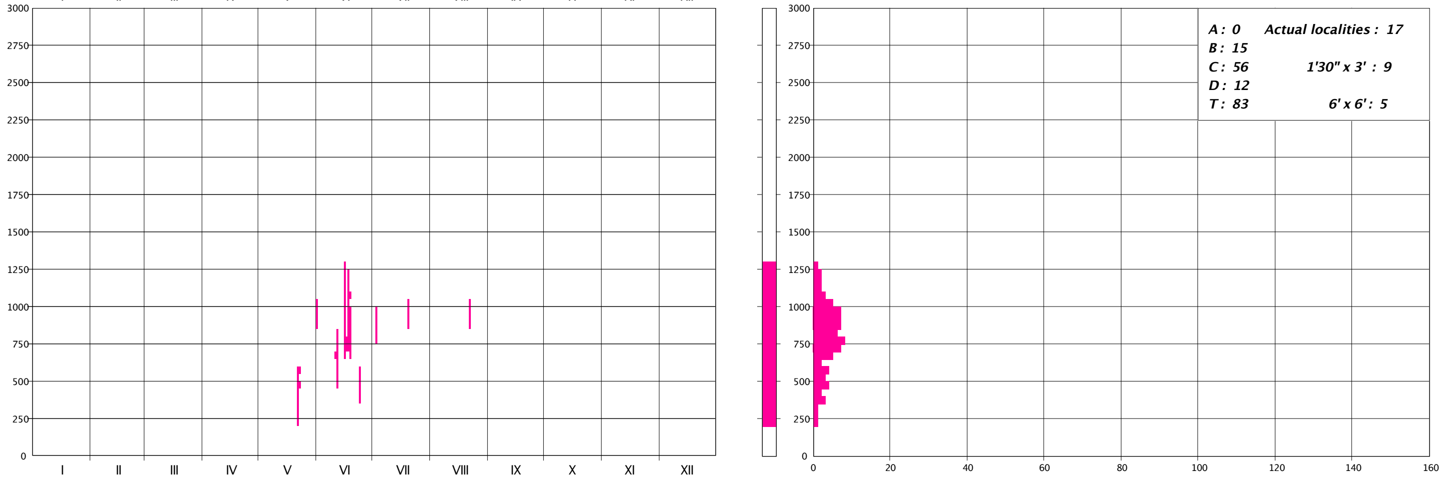


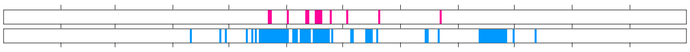


SATYRIDAE *Hipparchia christenseni*

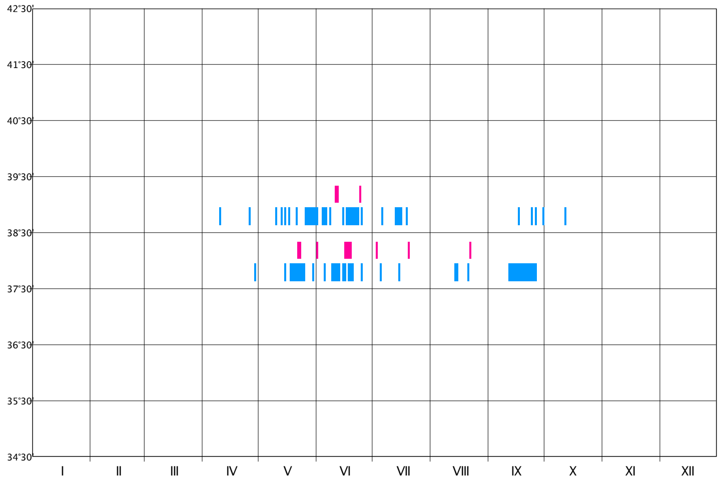


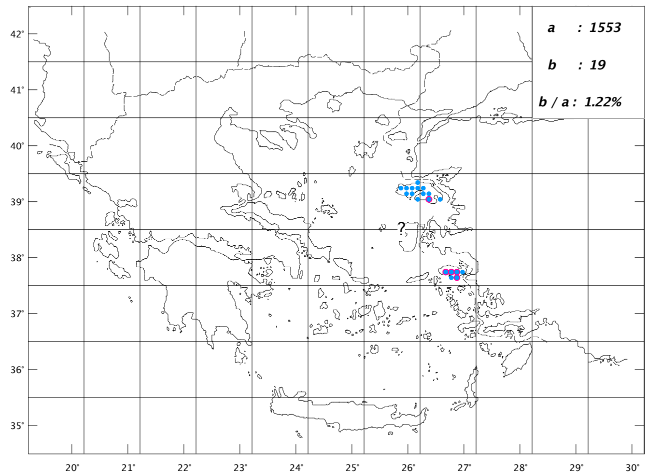


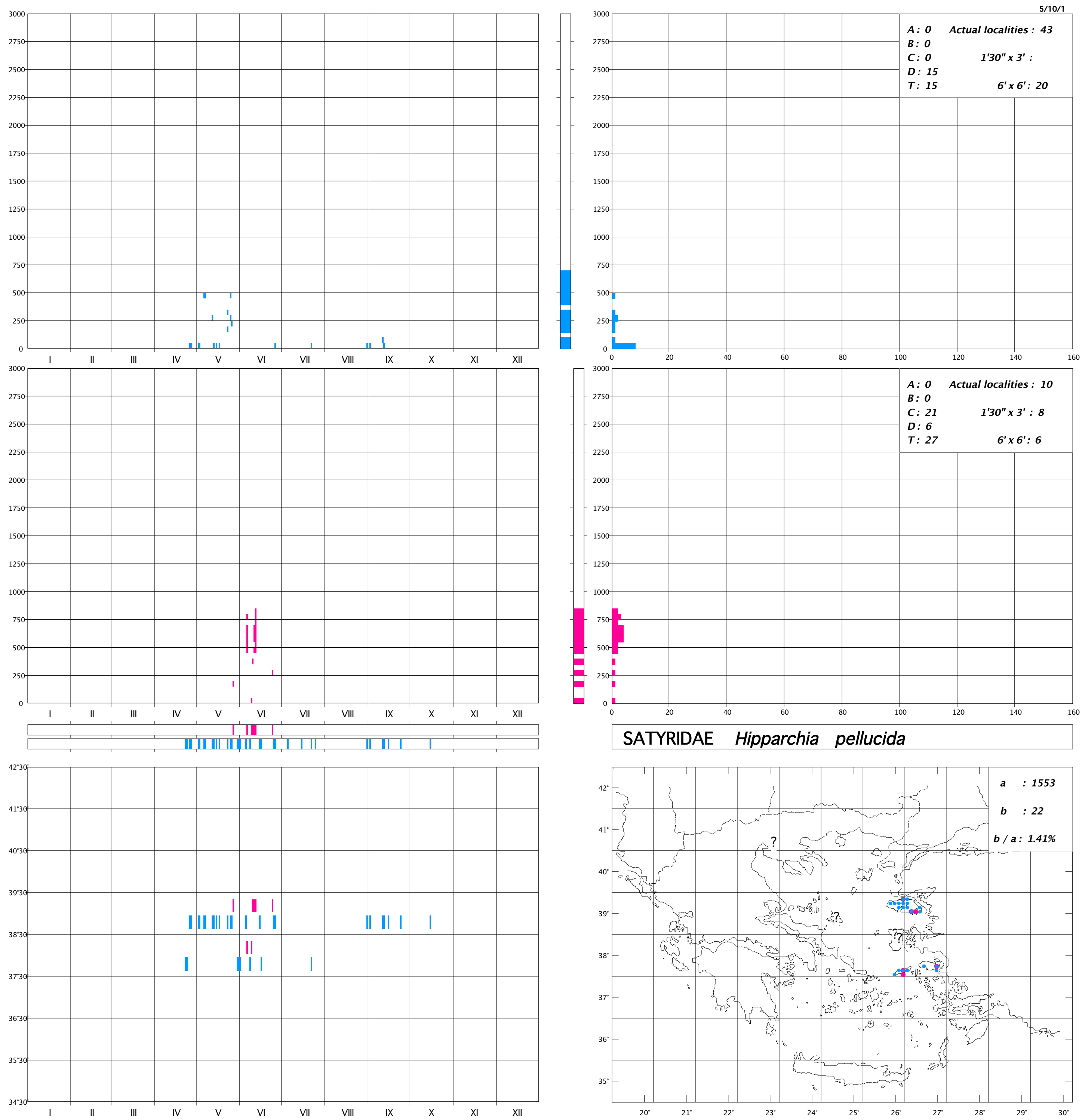




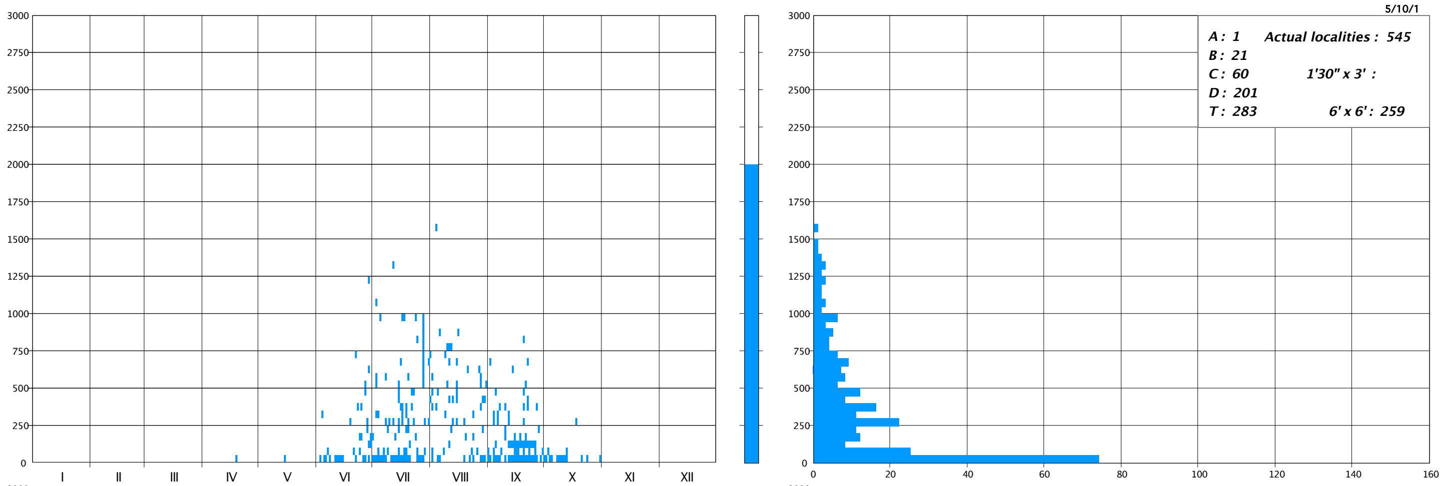
SATYRIDAE *Hipparchia mersina*

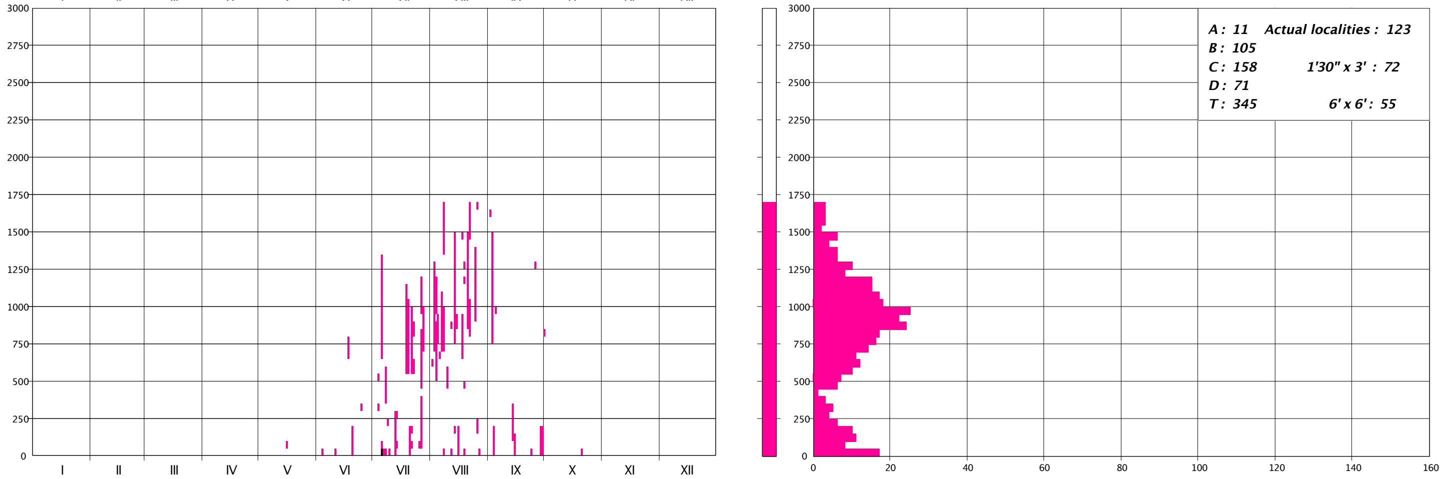




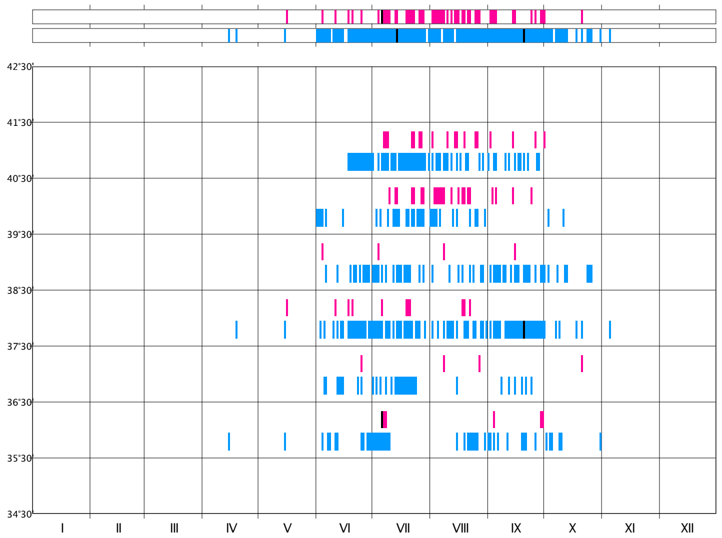


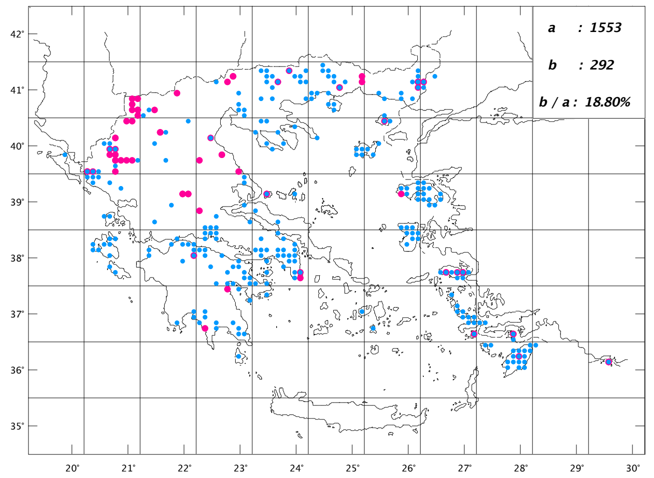
Αμφίβολη αναγνώριση / Identification uncertain

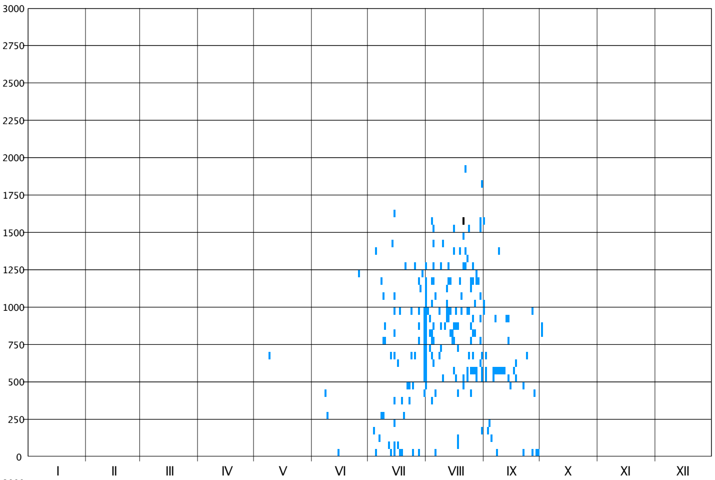


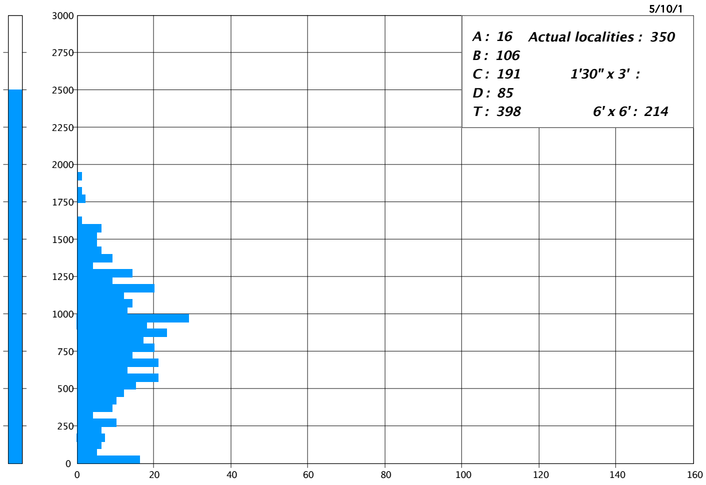


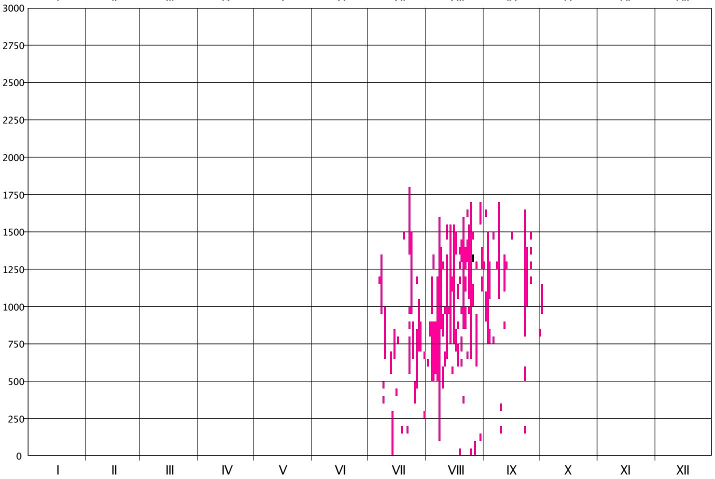
SATYRIDAE *Hipparchia fatua*

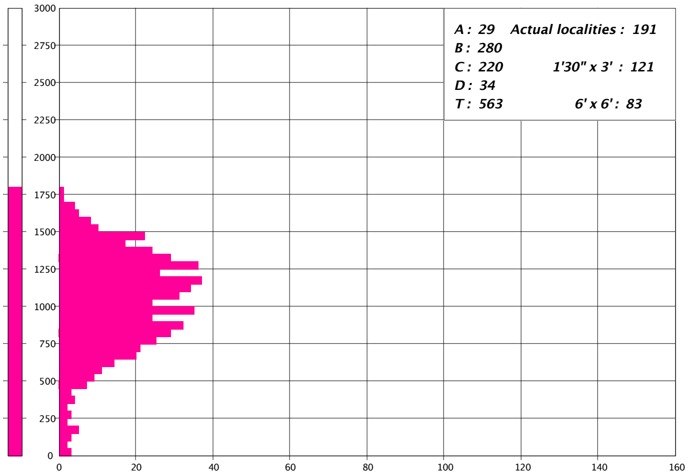


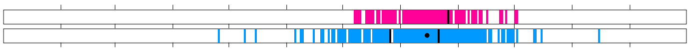




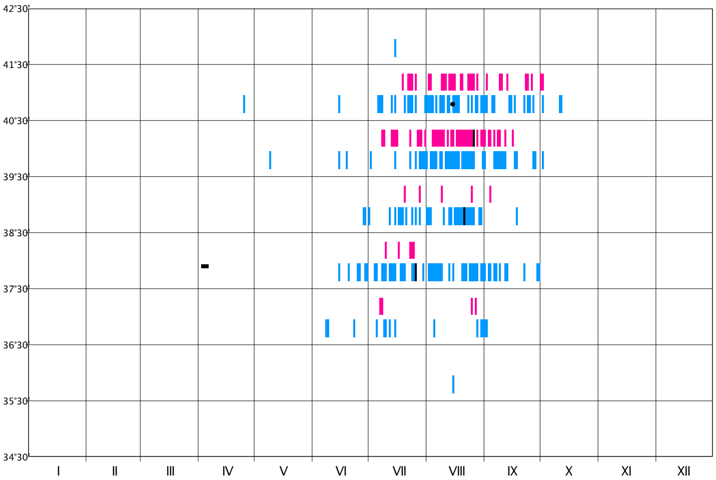


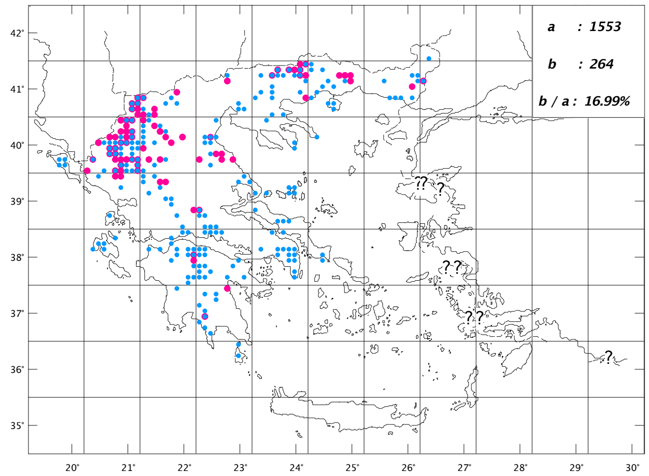


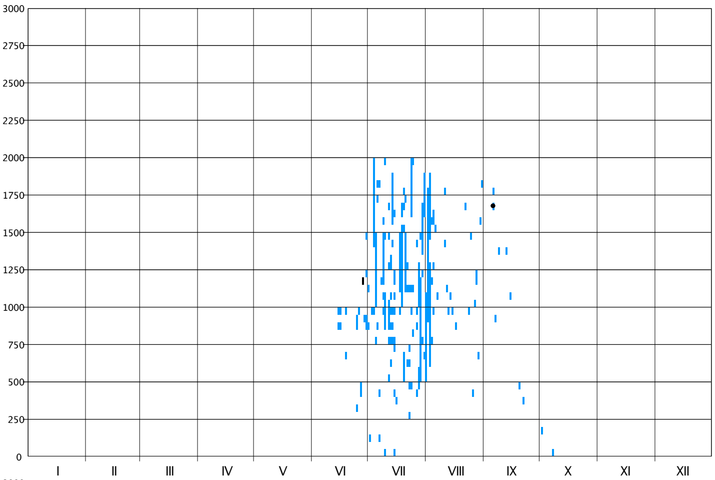


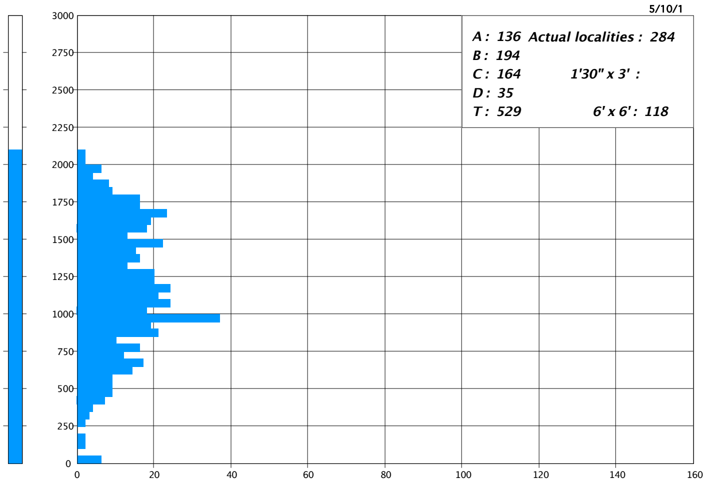


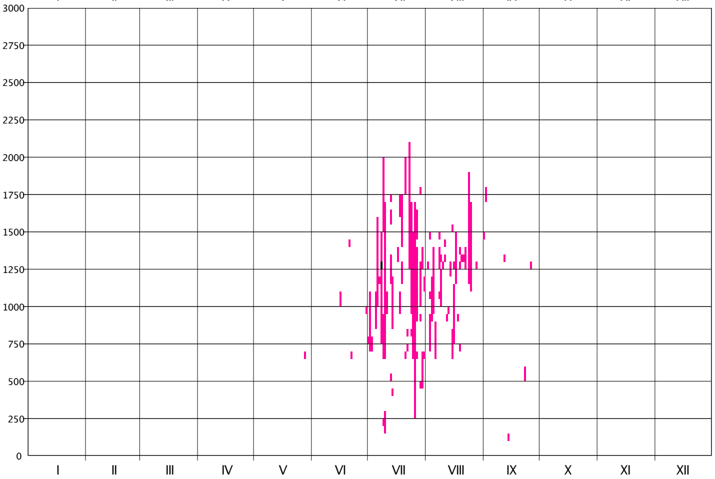
SATYRIDAE *Hipparchia statilinus*

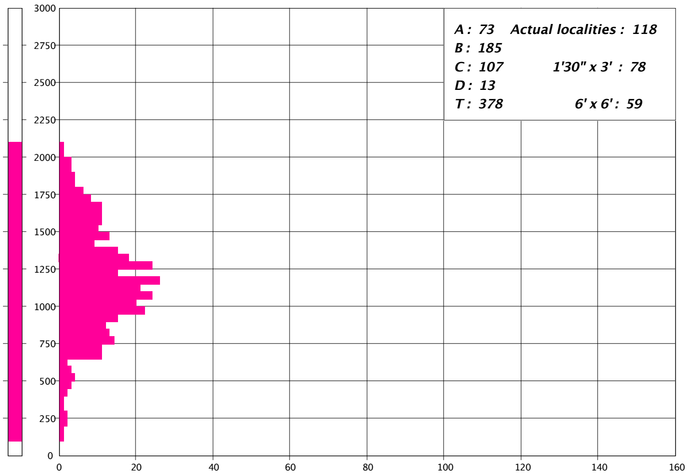


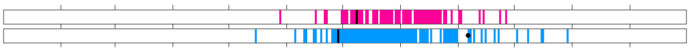




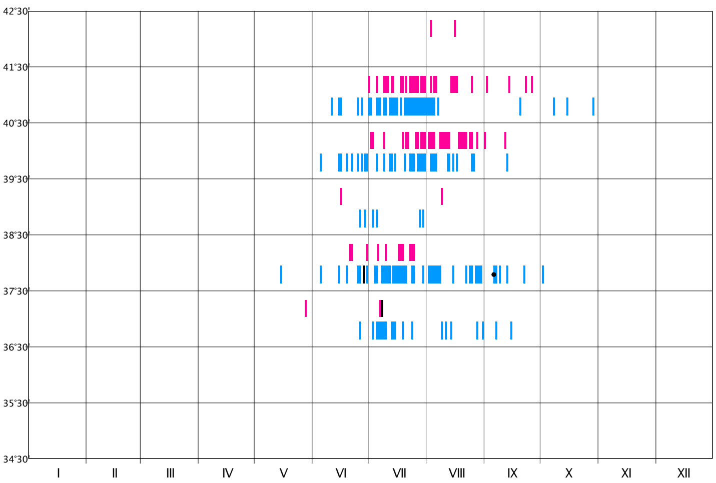


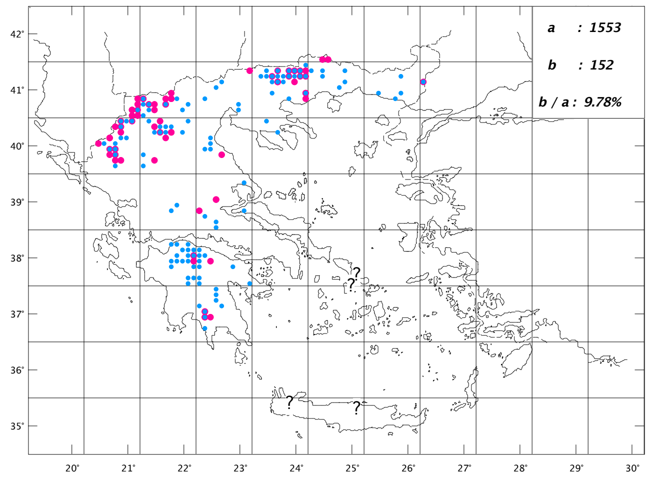


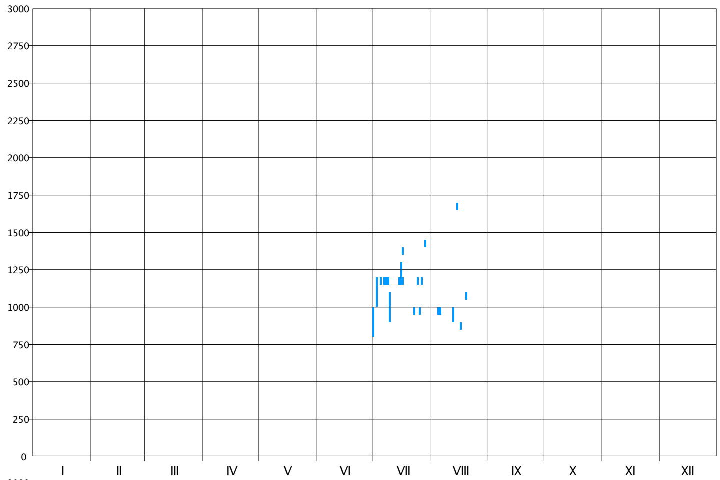


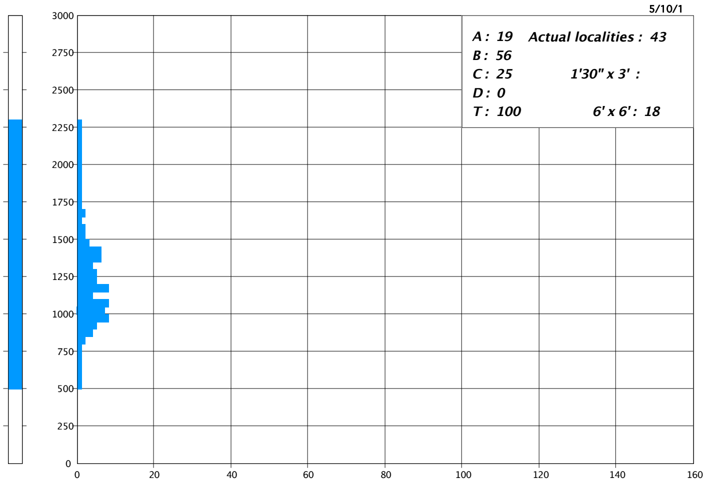


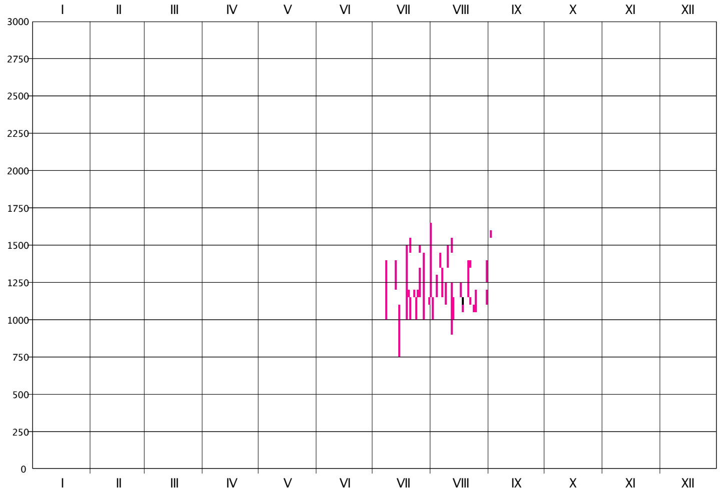
SATYRIDAE *Chazara briseis*

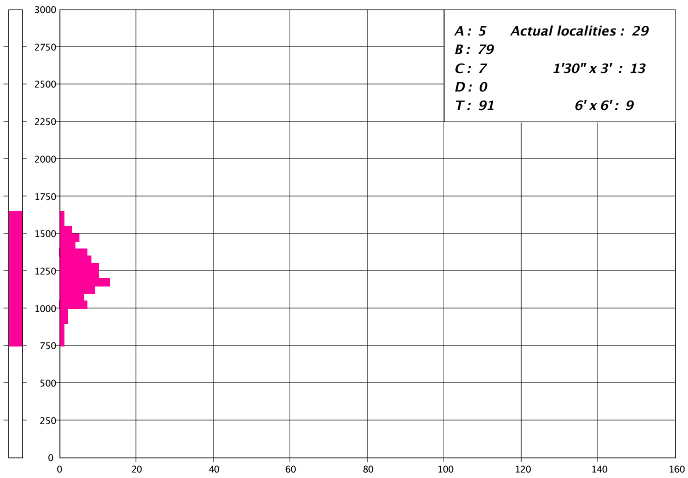


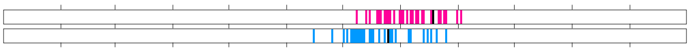




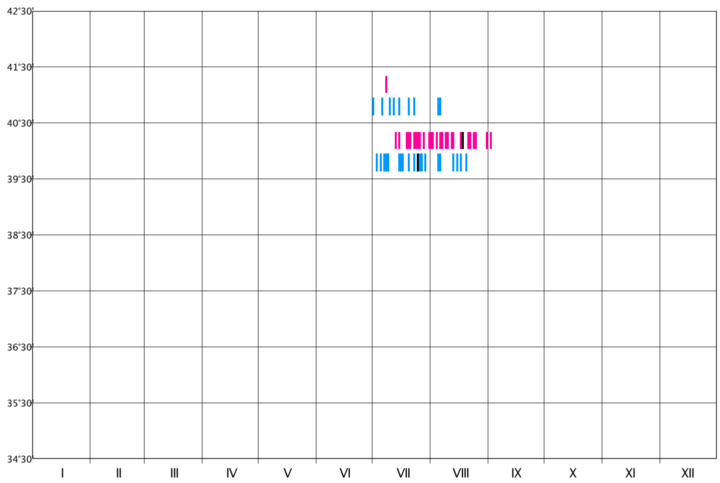


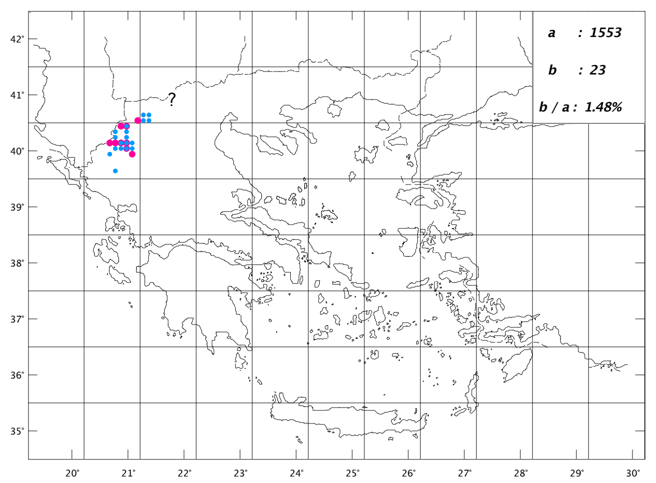


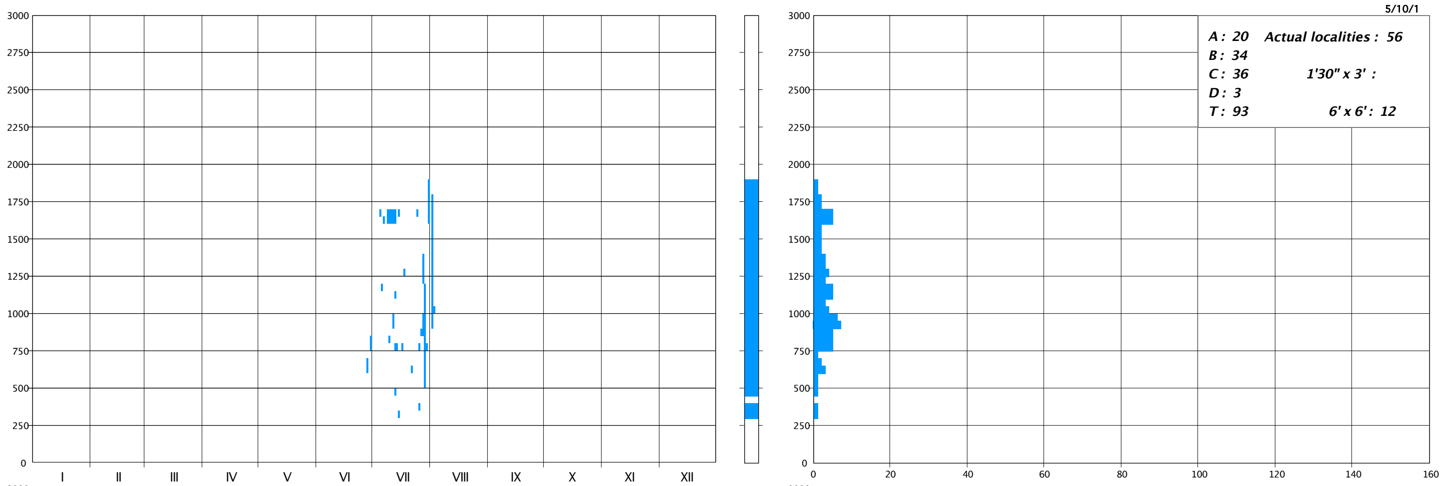


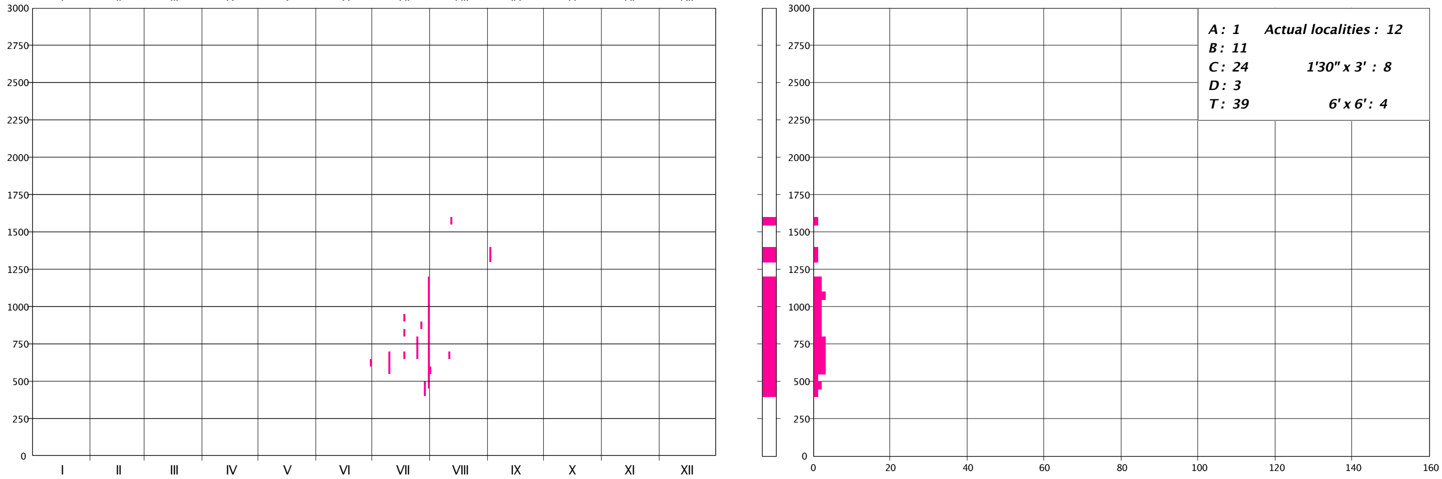


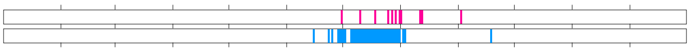
SATYRIDAE *Pseudochazara tisiphone*



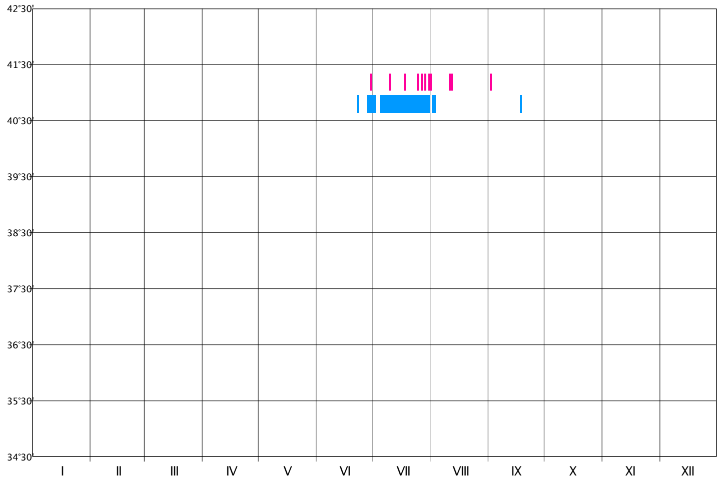


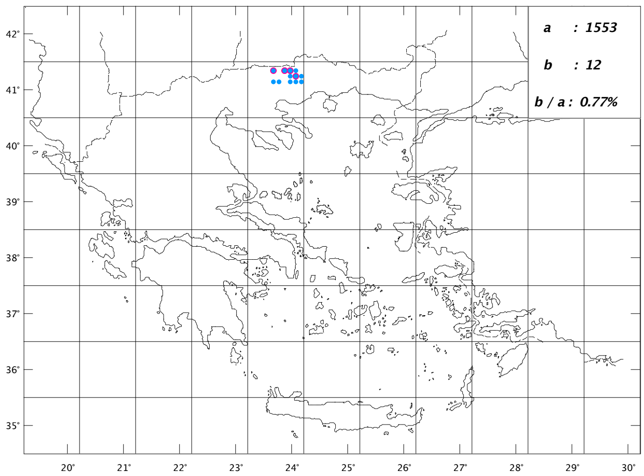


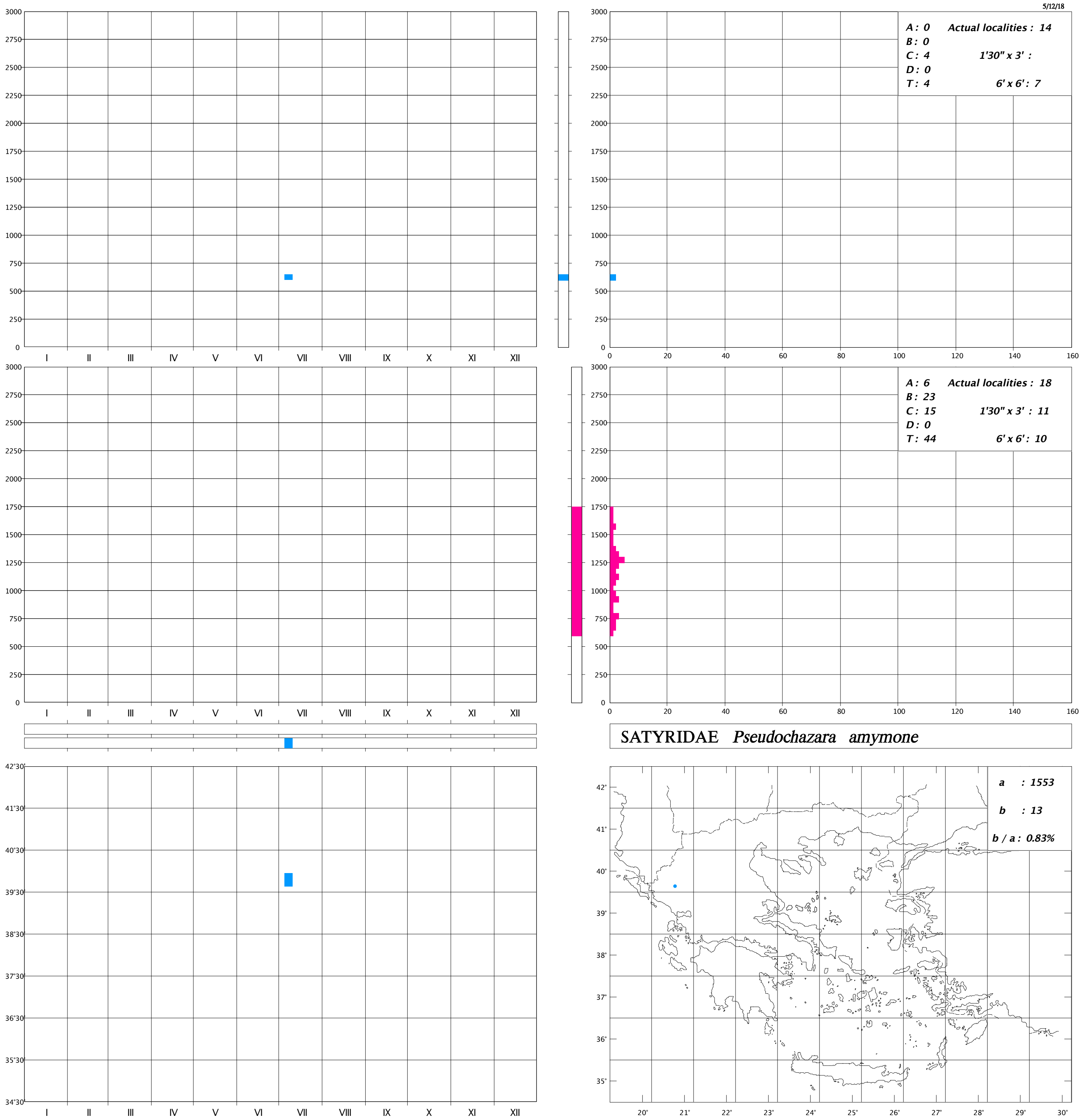




SATYRIDAE *Pseudochazara orestes*

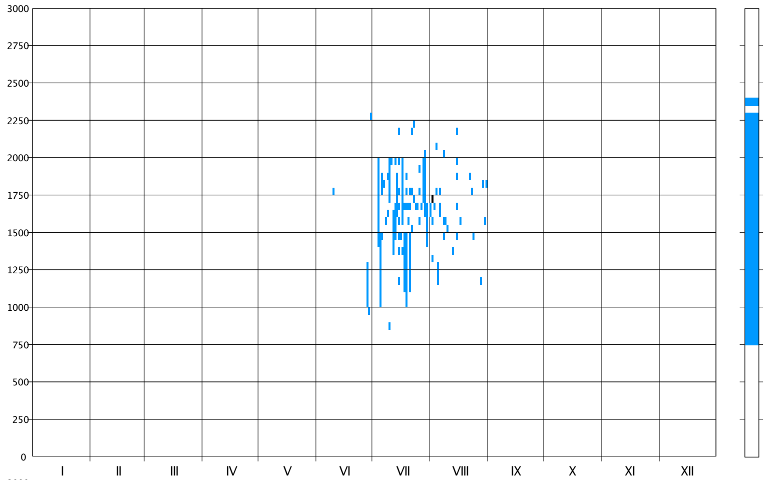


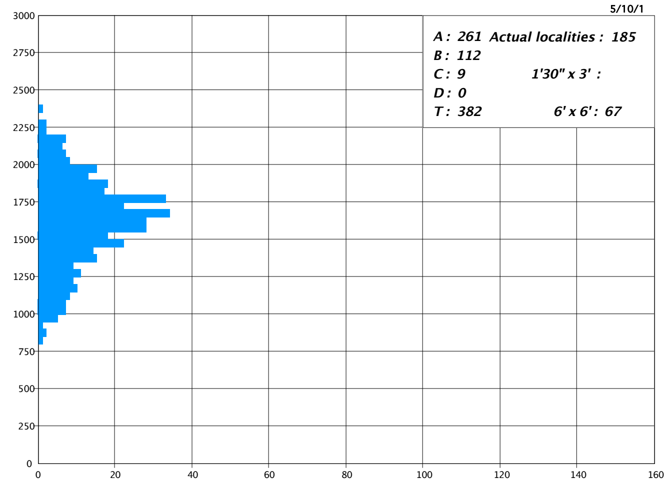


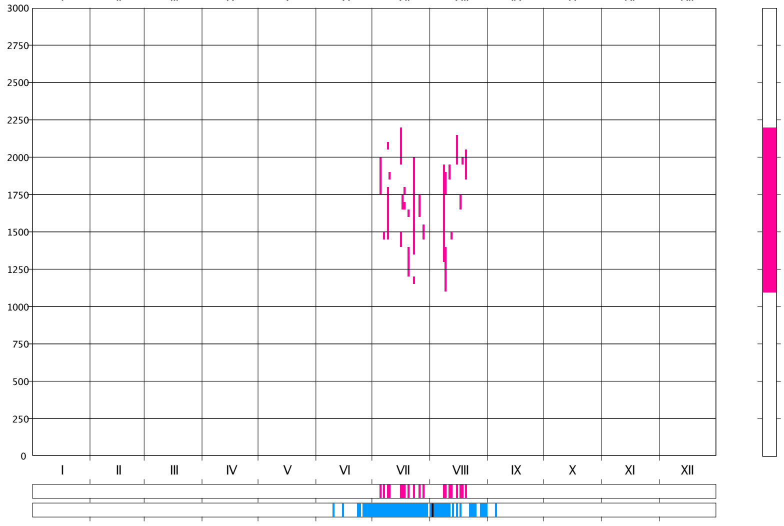


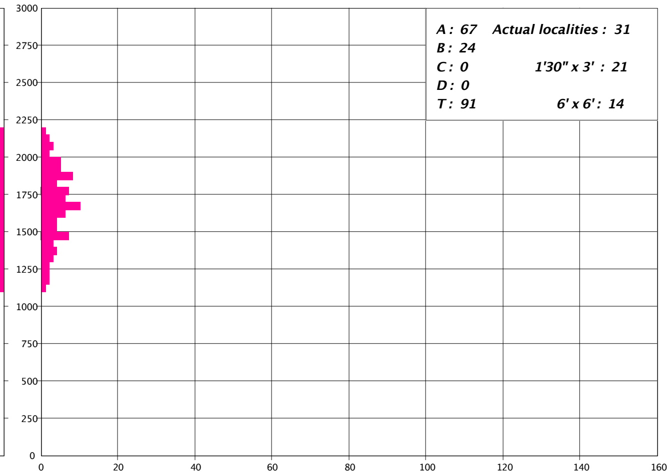
Pseudochazara amymone found in Albania in many localities

Το είδος Pseudochazara amymone βρέθηκε σε πολλές τοποθεσίες στην Αλβανία

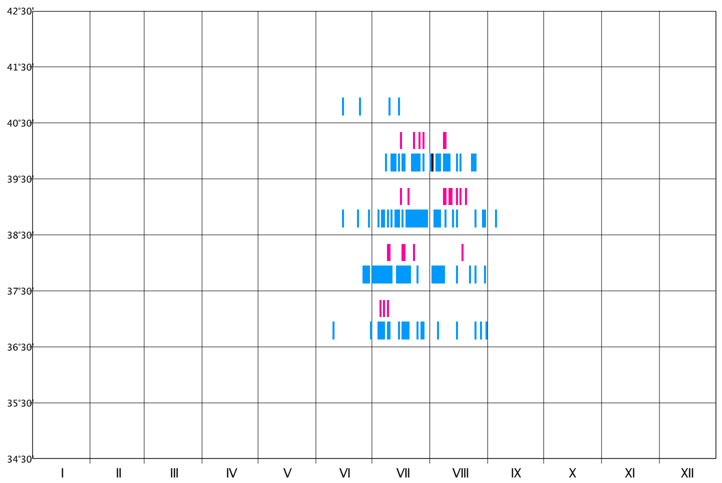


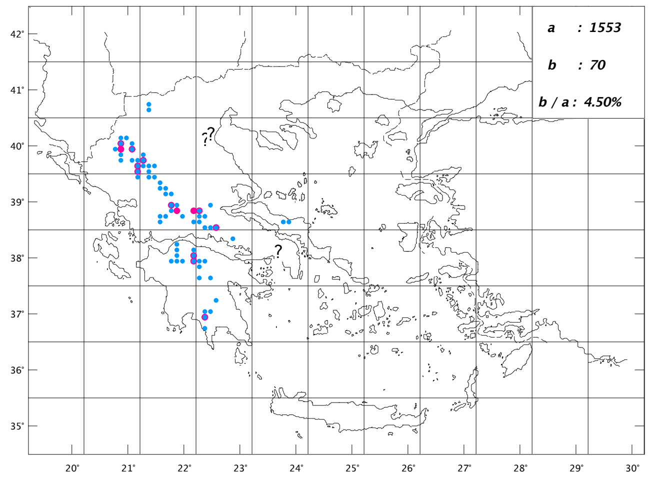


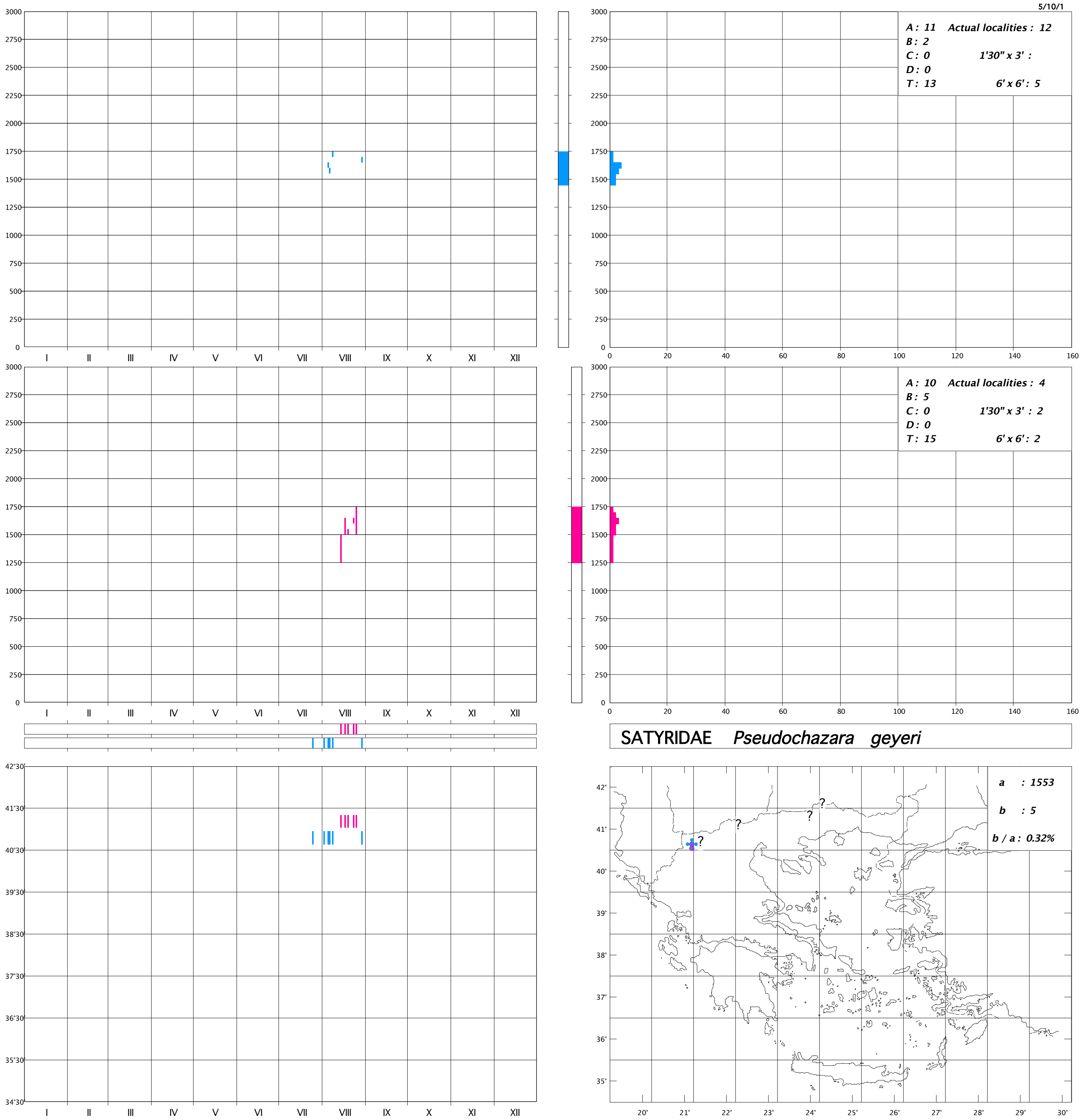


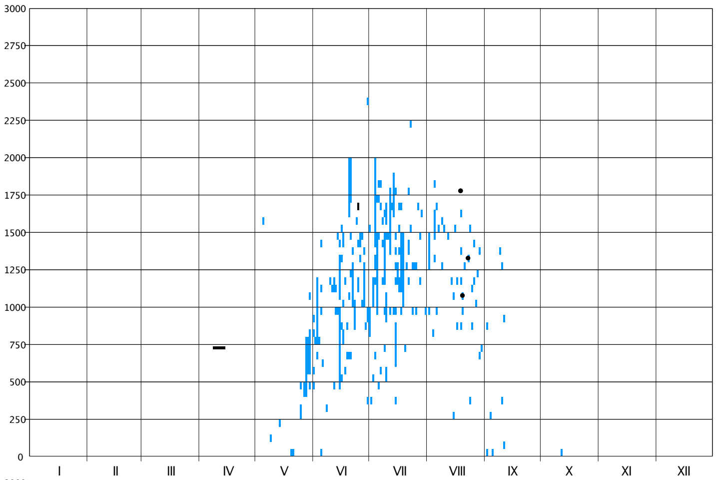


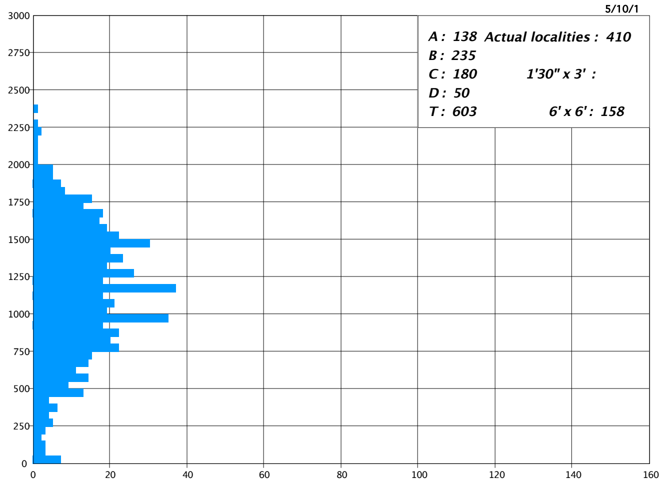
SATYRIDAE *Pseudochazara graeca*

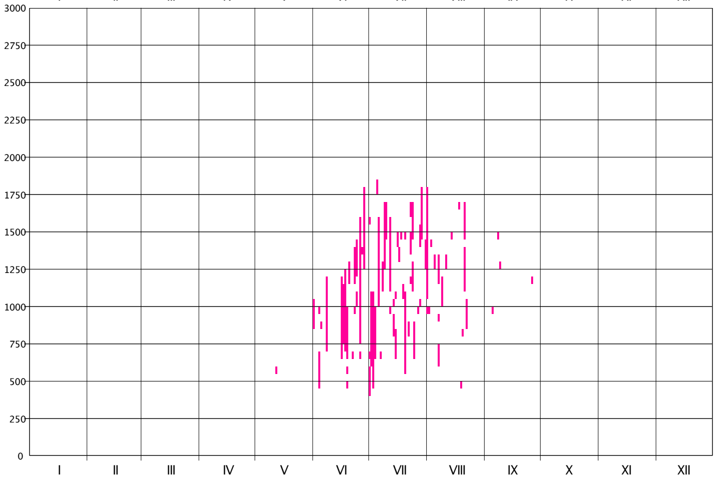


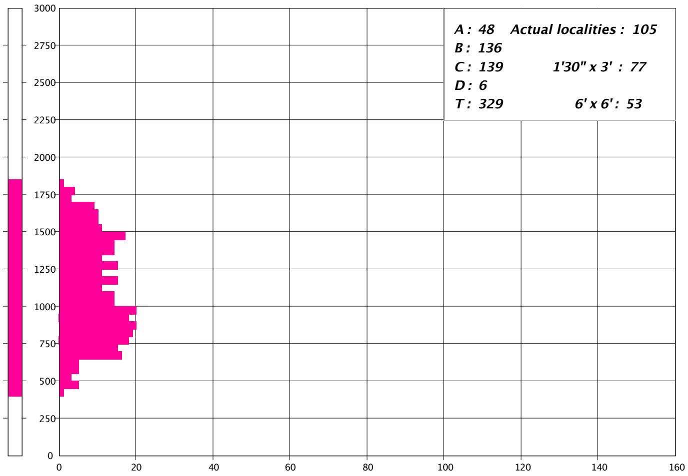


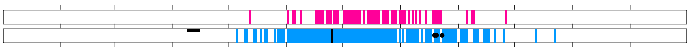

5/10/1
A : 11 Actual localities : 12
B : 2
C : 0 1'30" x 3' :
D : 0
T : 13 6' x 6' : 5
A : 10 Actual localities : 4
B : 5
C : 0 1'30" x 3' : 2
D : 0
T : 15 6' x 6' : 2
SATYRIDAE Pseudochazara geyeri
a : 1553
b : 5
b / a : 0.32%



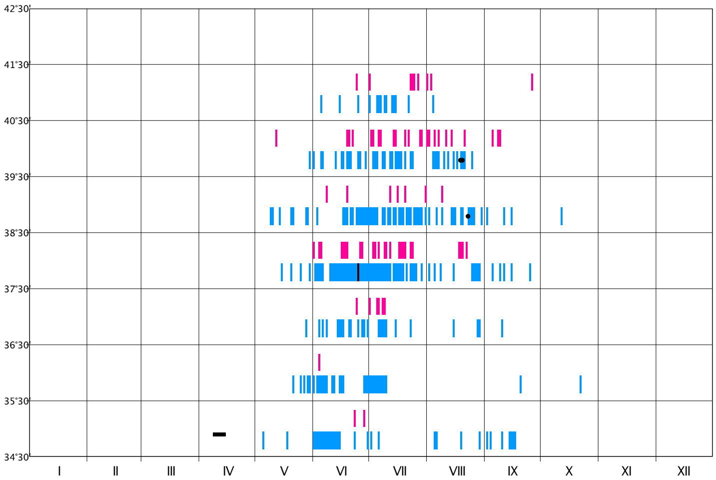


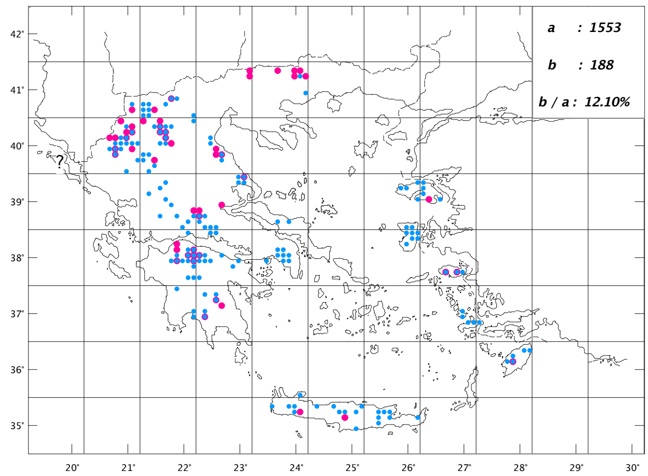


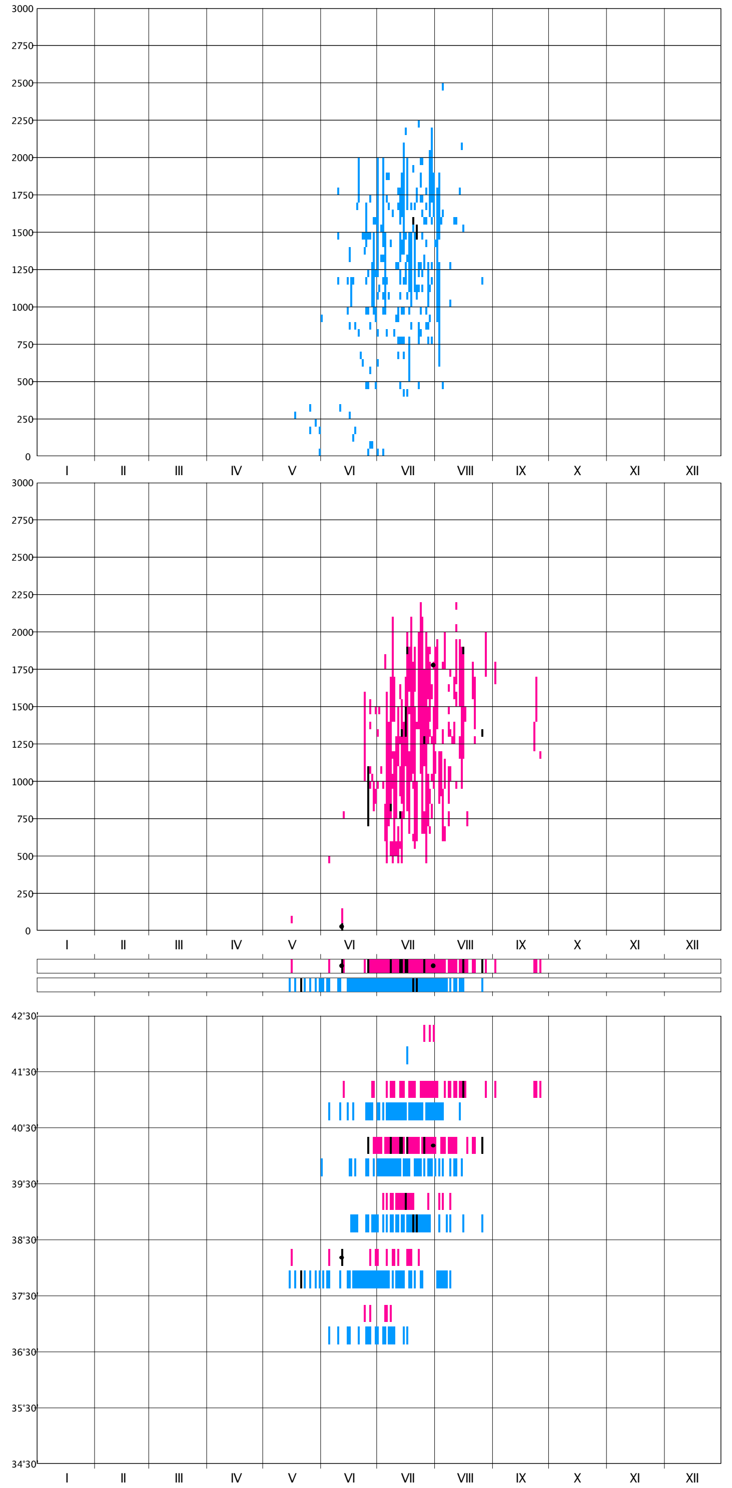


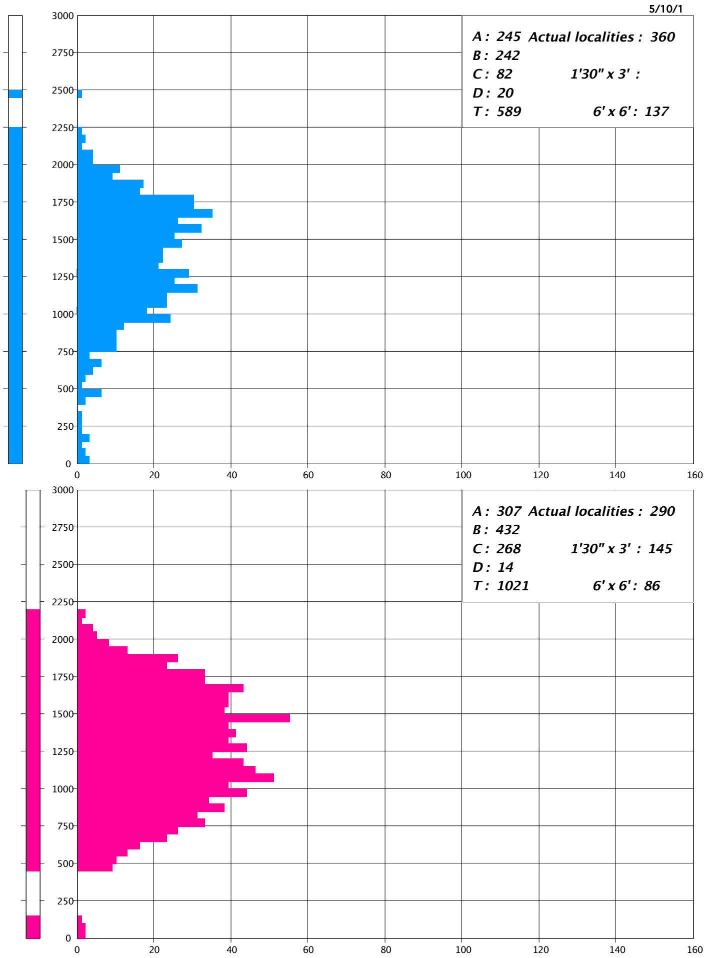


SATYRIDAE *Pseudochazara anthelea*

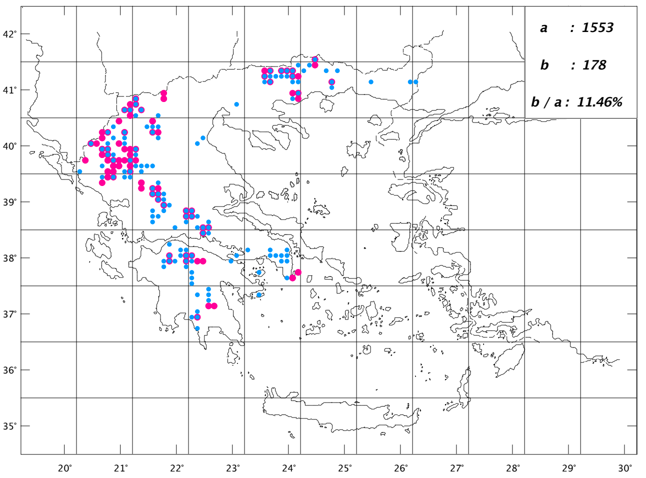


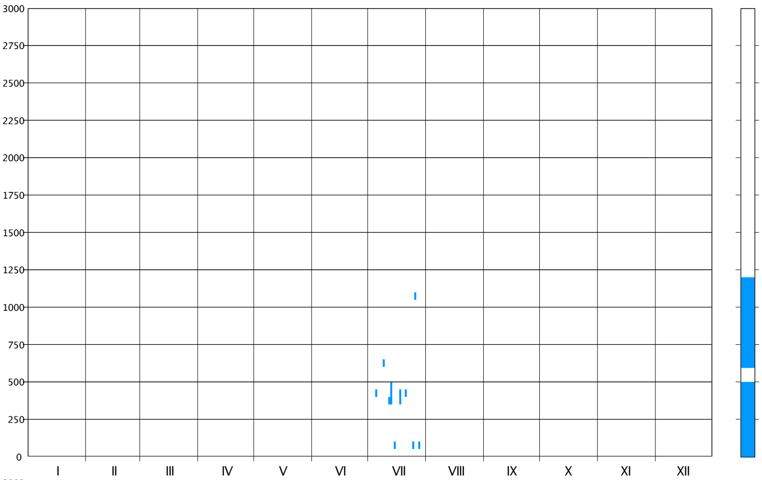


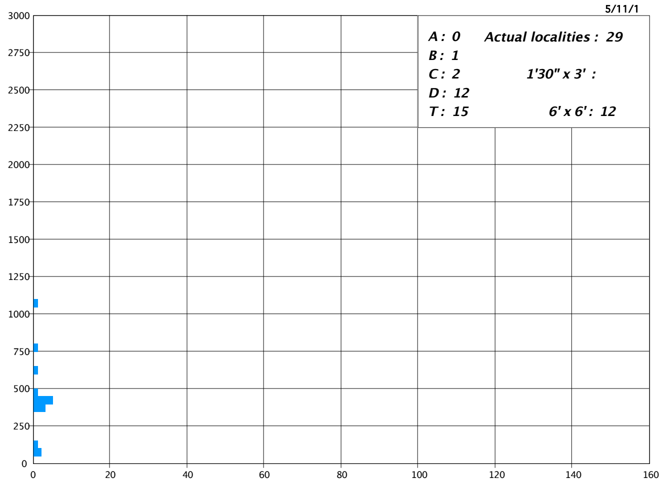


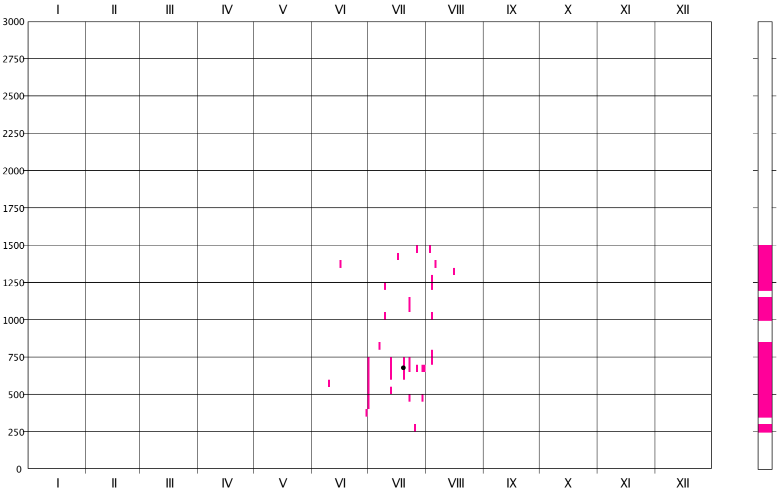


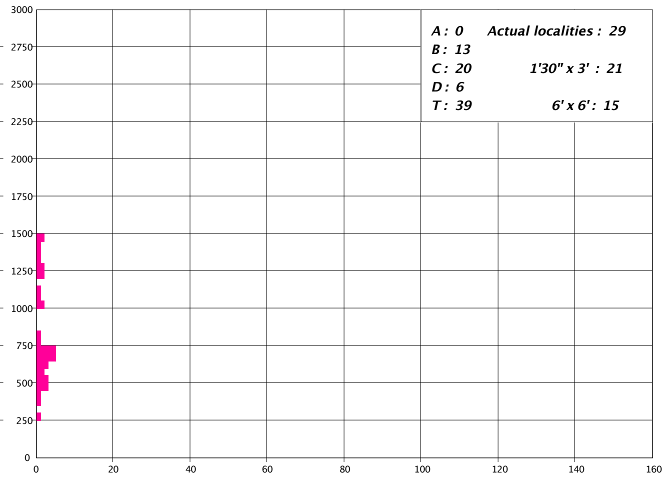
SATYRIDAE *Satyrus ferula*

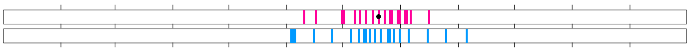




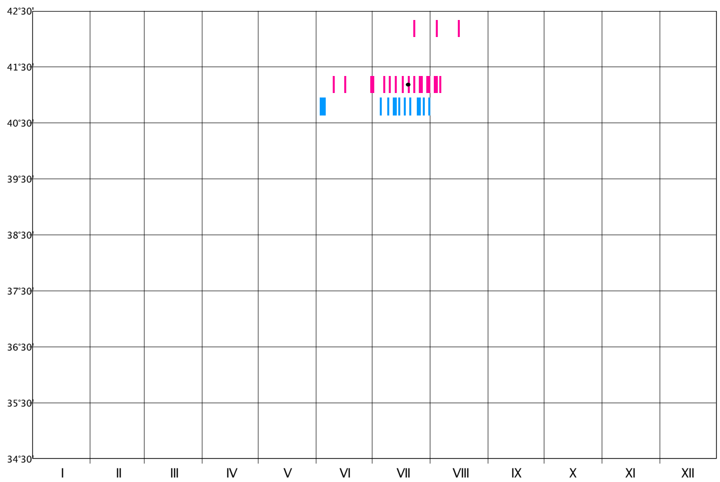


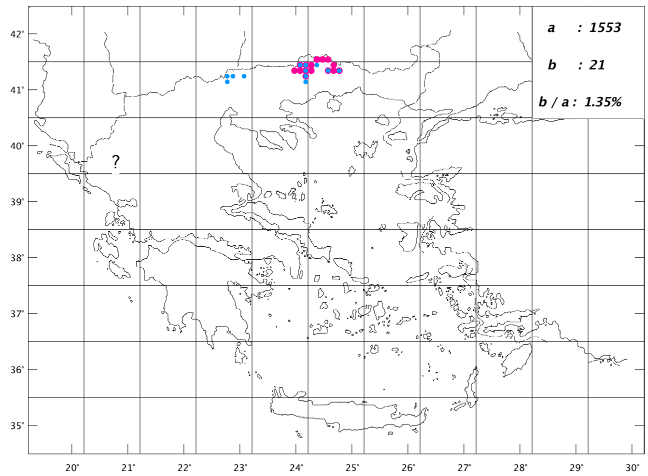


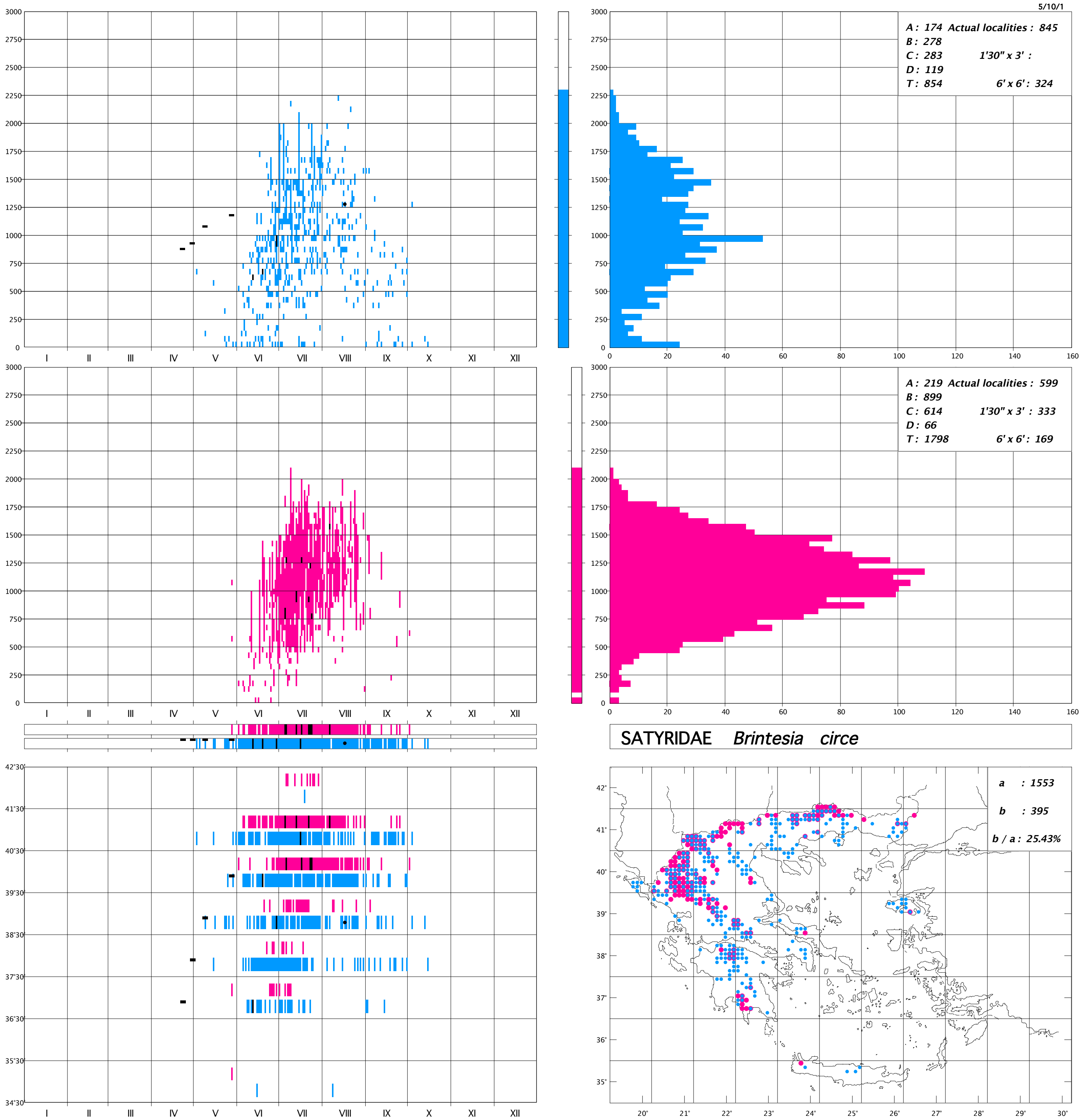


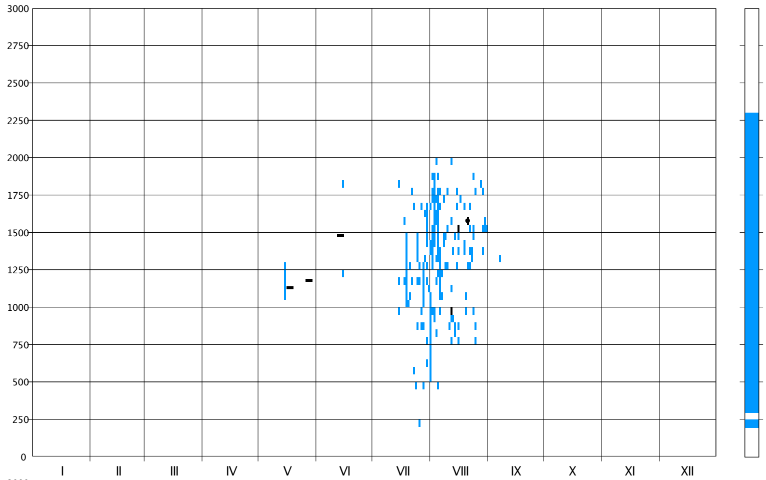


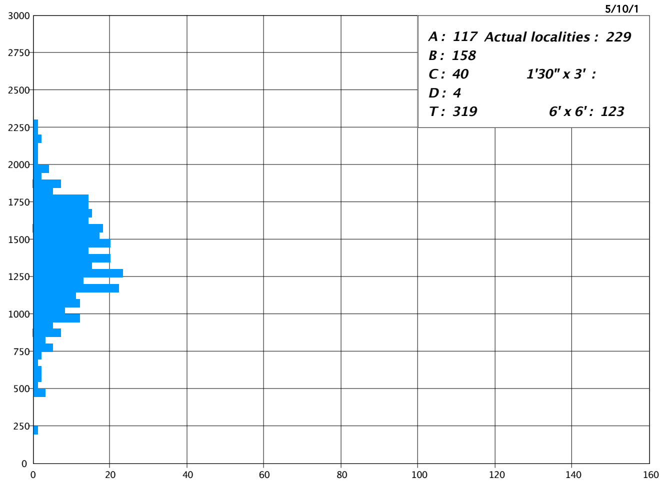
SATYRIDAE *Minois dryas*

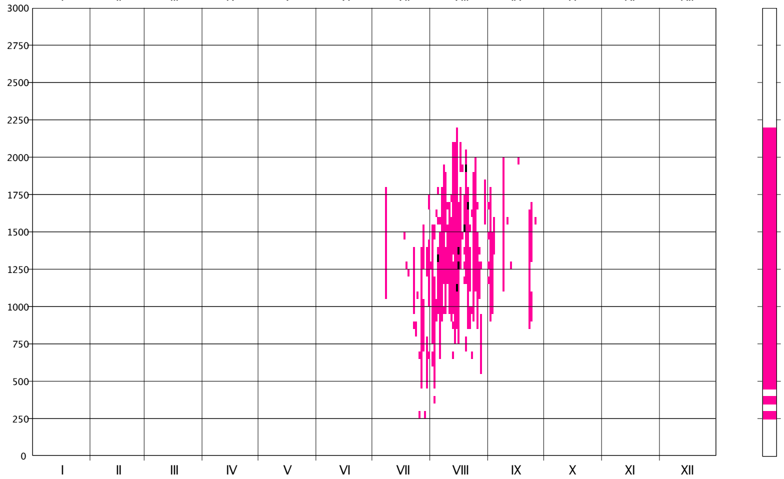


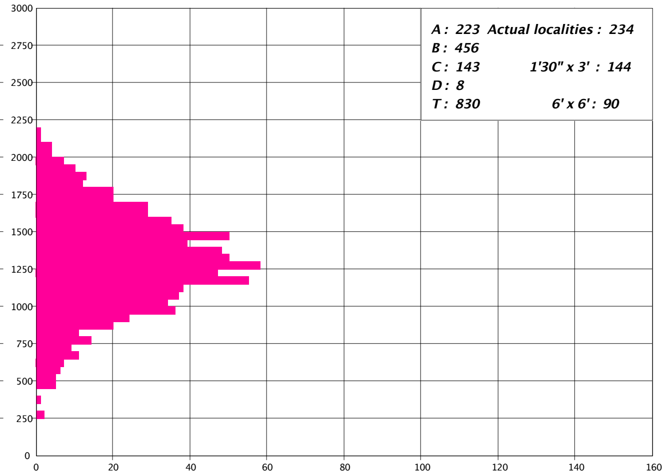



A : 174 Actual localities : 845
B : 278
C : 283 1'30" x 3' :
D : 119
T : 854 6' x 6' : 324
A : 219 Actual localities : 599
B : 899
C : 614 1'30" x 3' : 333
D : 66
T : 1798 6' x 6' : 169
SATYRIDAE Brintesia circe
a : 1553
b : 395
b / a : 25.43%

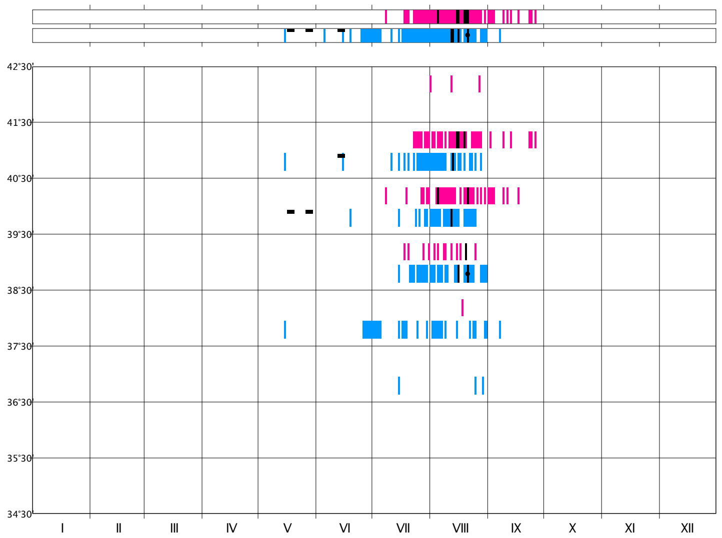


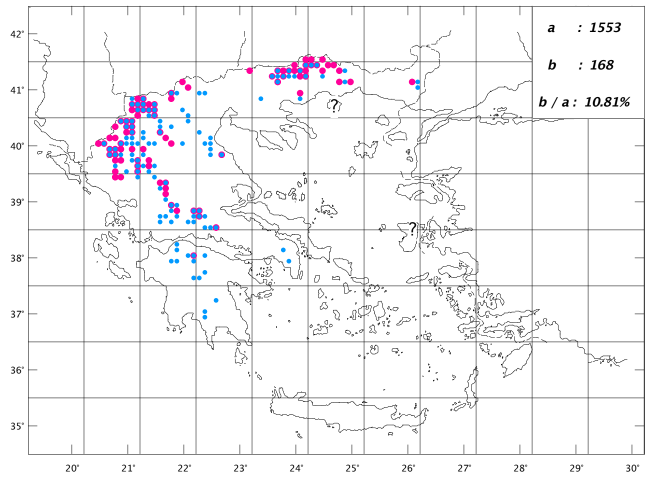


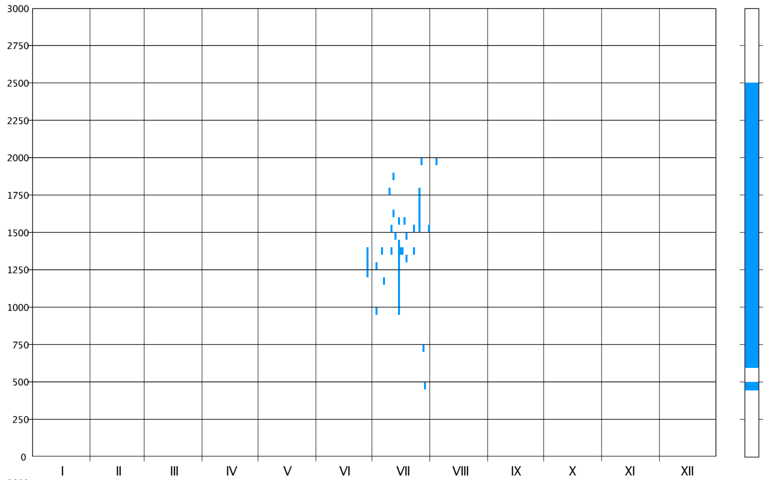


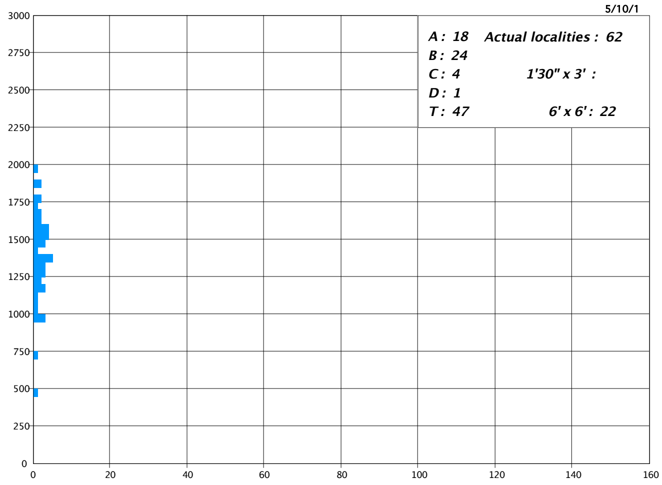


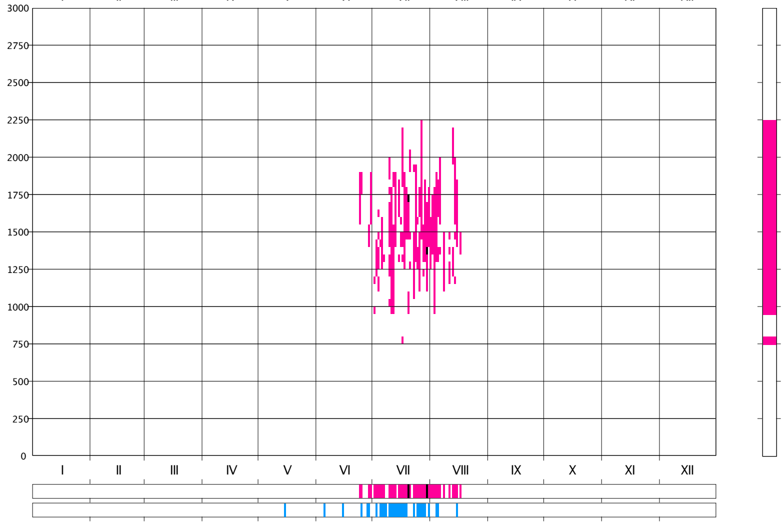
SATYRIDAE *Arethusana arethusa*

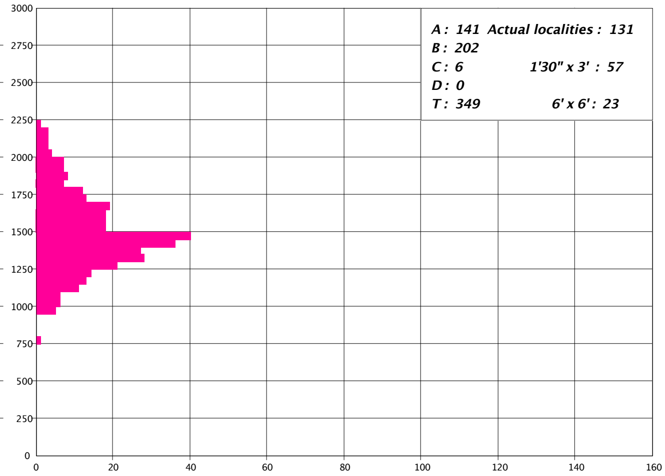




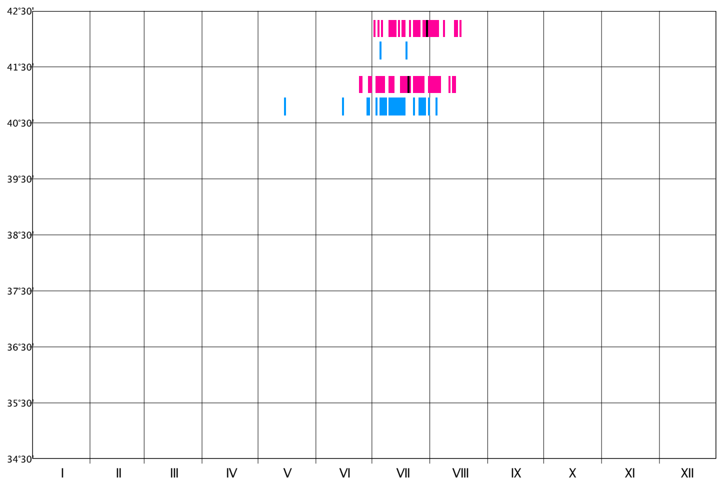


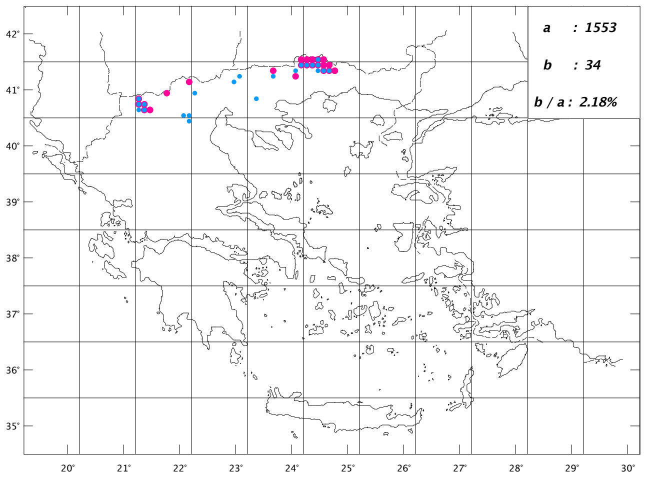


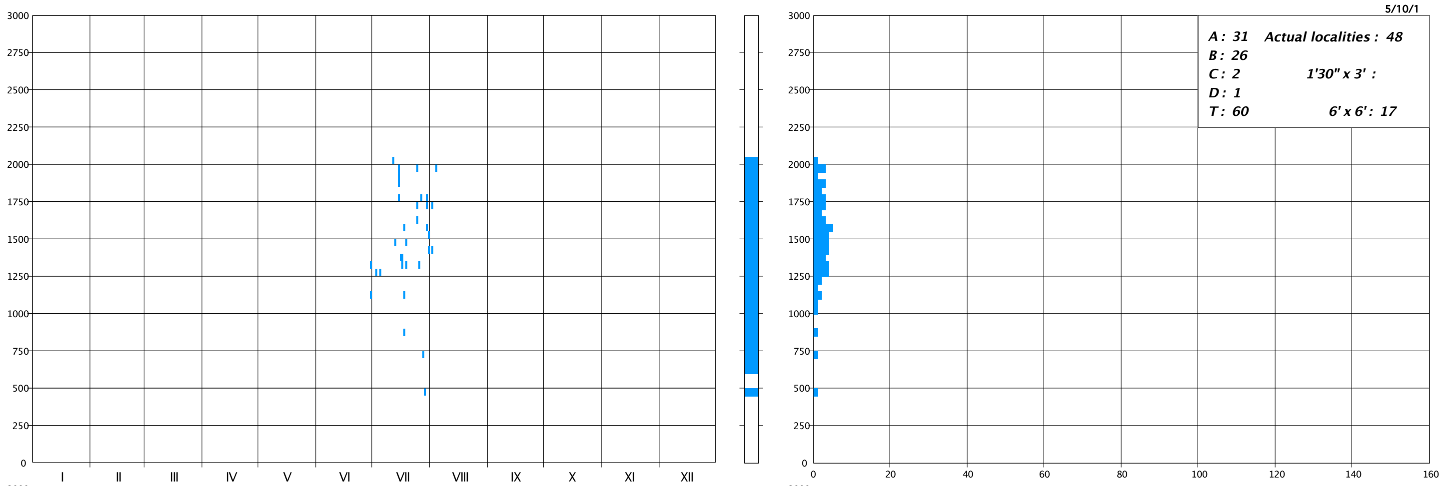


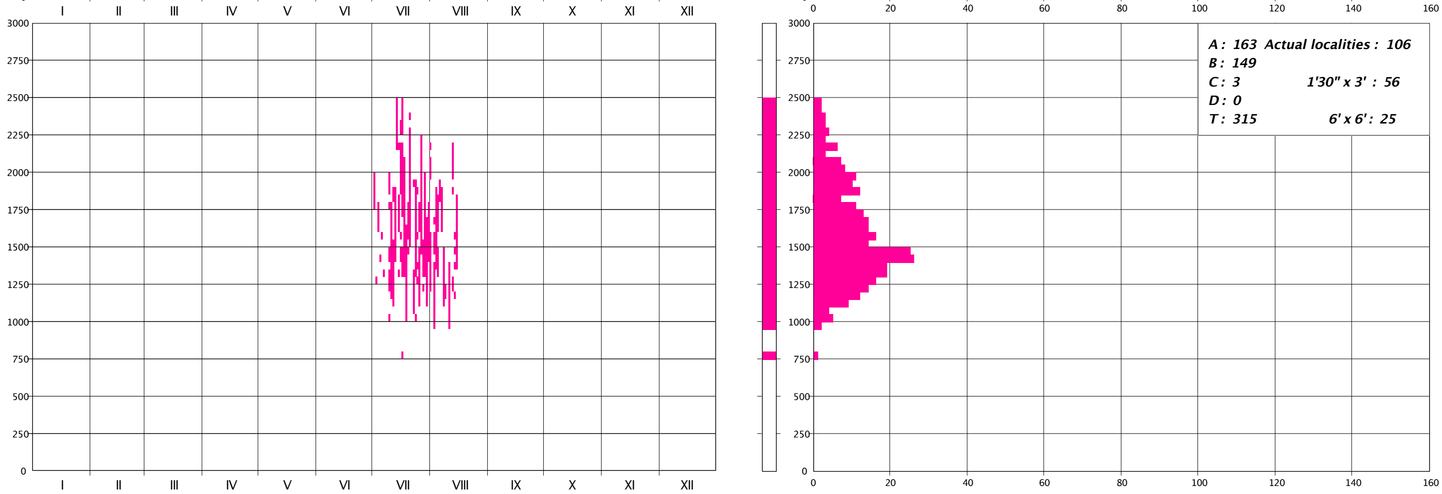


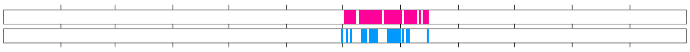
SATYRIDAE *Erebia ligea*



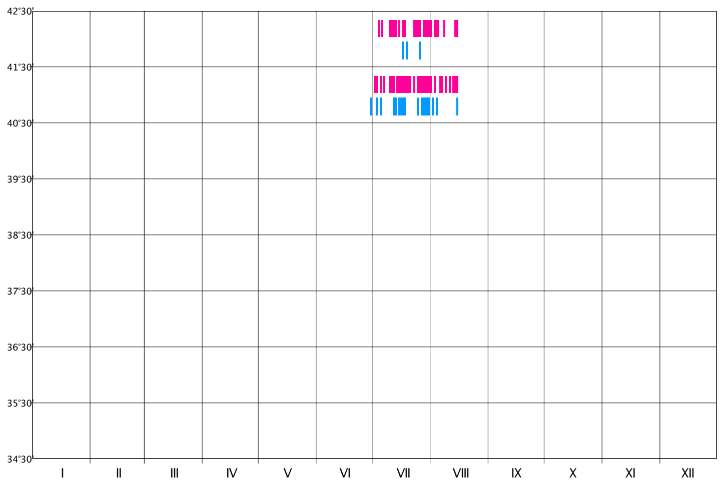


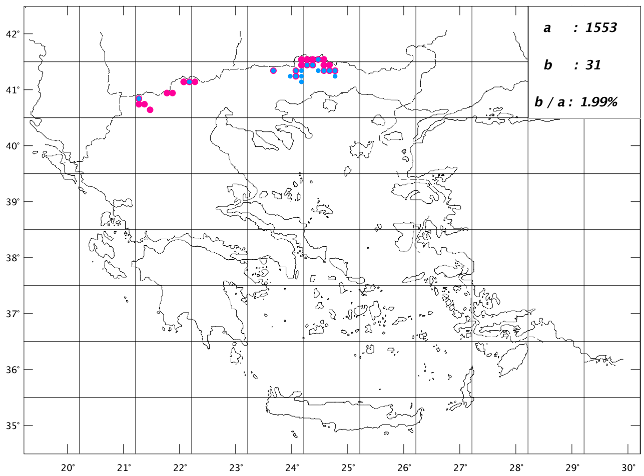


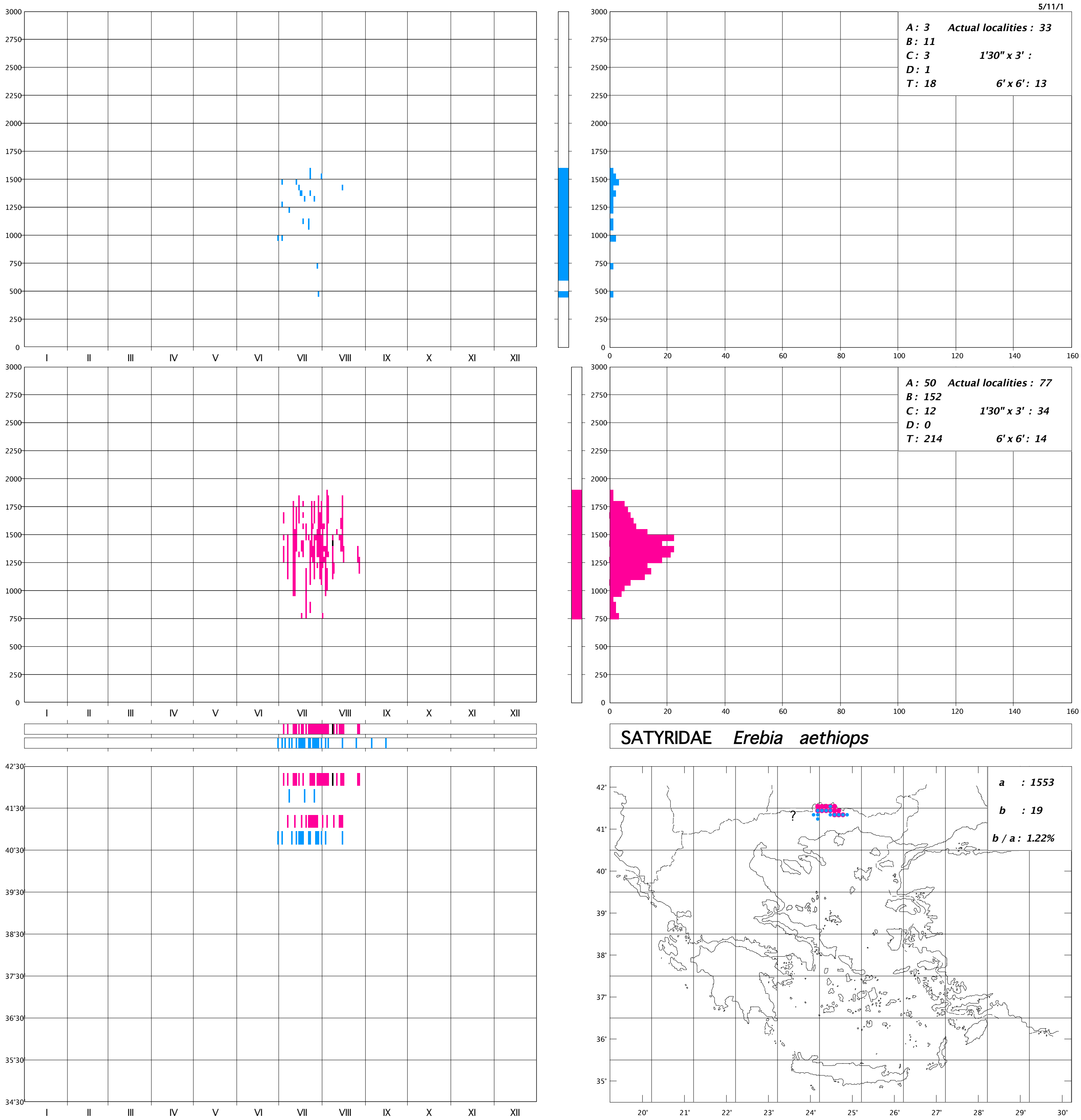


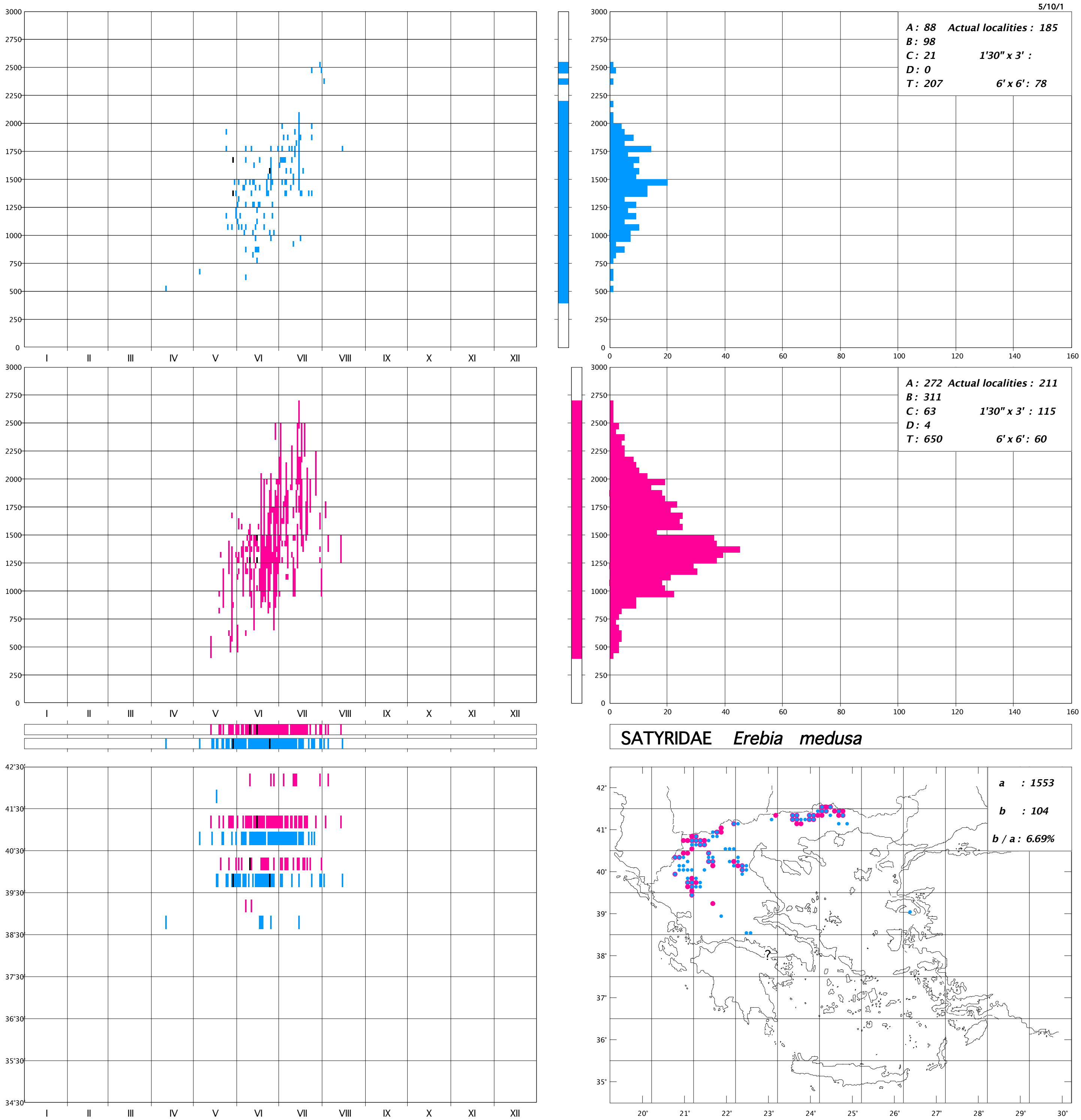


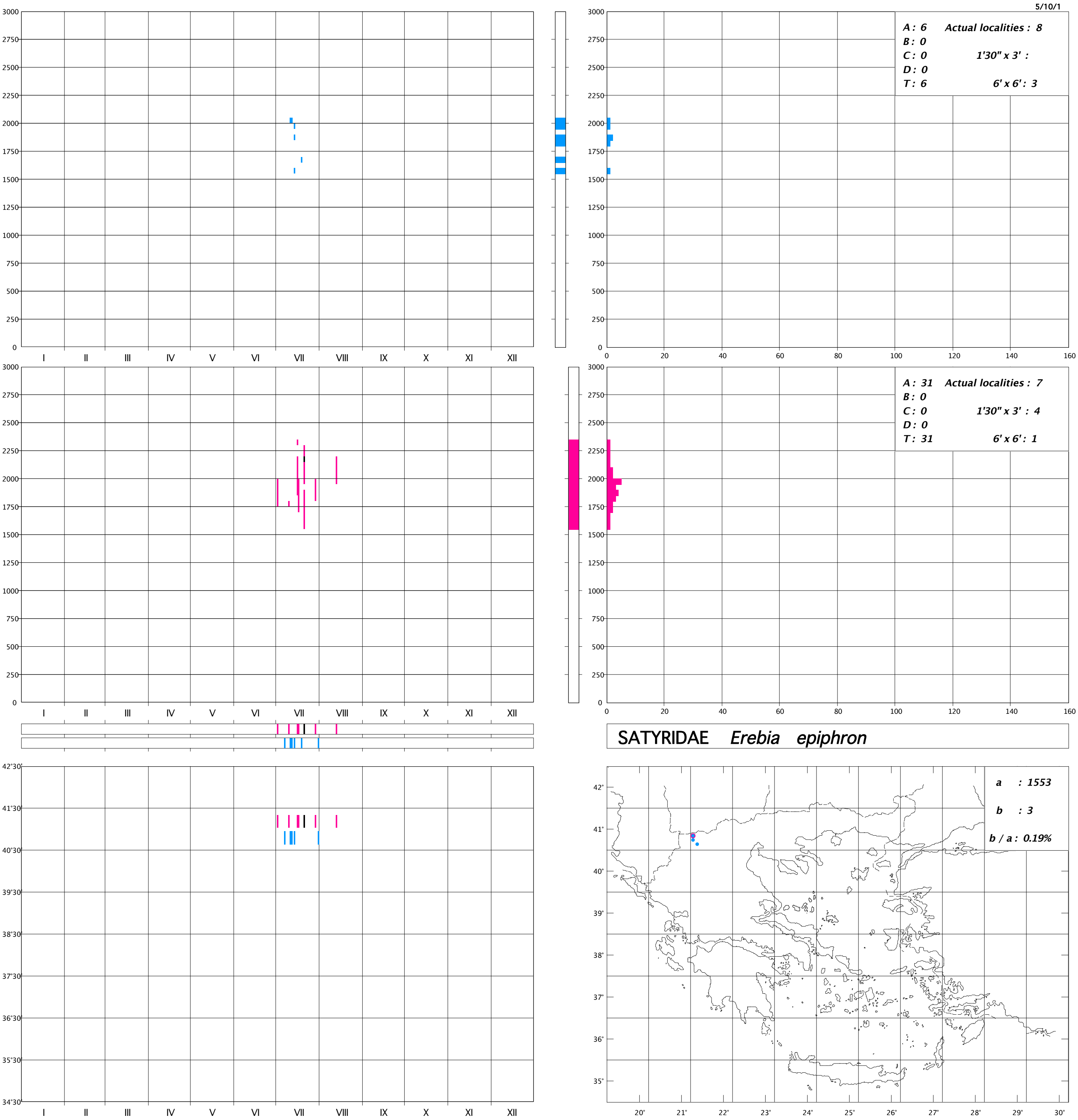
SATYRIDAE *Erebia euryale*

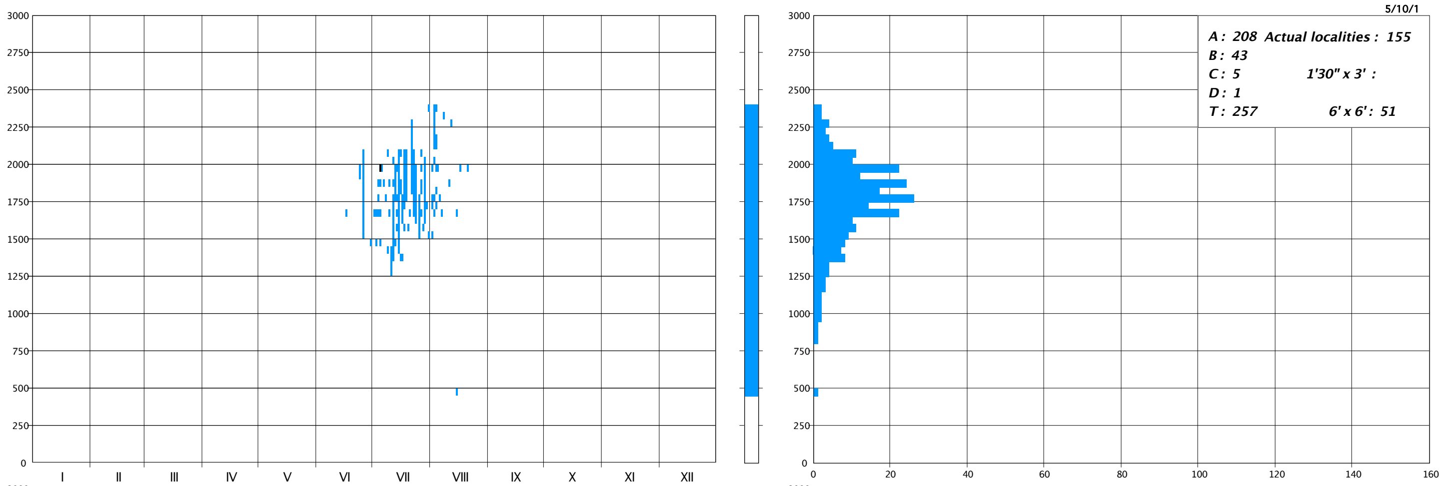


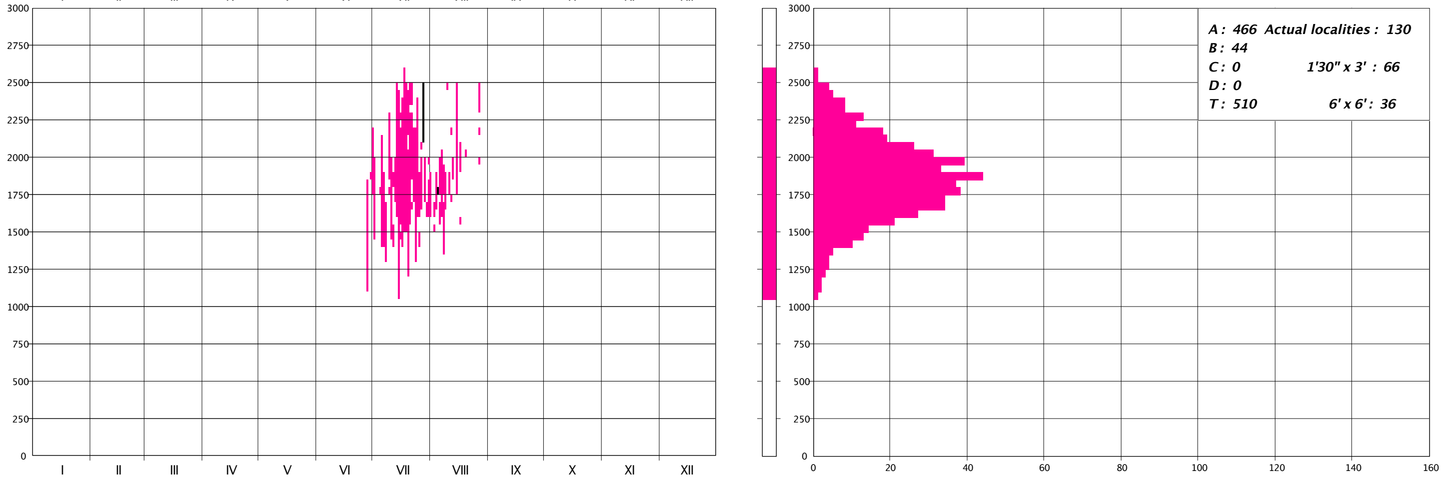



A : 3 Actual localities : 33
B : 11
C : 3 1'30" x 3' :
D : 1
T : 18 6' x 6' : 13
A : 50 Actual localities : 77
B : 152
C : 12 1'30" x 3' : 34
D : 0
T : 214 6' x 6' : 14
SATYRIDAE Erebia aethiops
a : 1553
b : 19
b / a : 1.22%
?

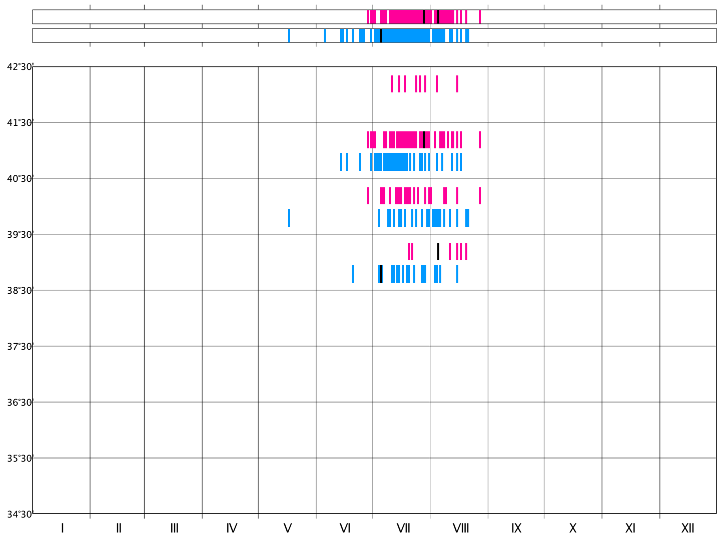

A : 88 Actual localities : 185
B : 98
C : 21 1'30" x 3' :
D : 0
T : 207 6' x 6' : 78
A : 272 Actual localities : 211
B : 311
C : 63 1'30" x 3' : 115
D : 4
T : 650 6' x 6' : 60
SATYRIDAE *Erebia medusa*
a : 1553
b : 104
b / a : 6.69%

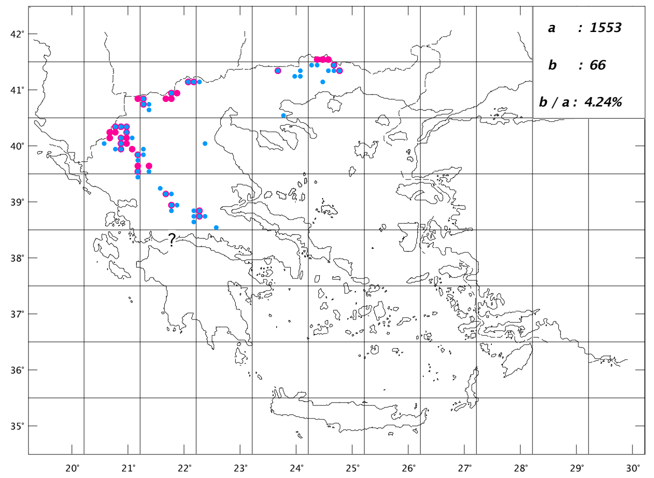

5/10/1
A : 6 Actual localities : 8
B : 0
C : 0 1'30" x 3' :
D : 0
T : 6 6' x 6' : 3
A : 31 Actual localities : 7
B : 0
C : 0 1'30" x 3' : 4
D : 0
T : 31 6' x 6' : 1
SATYRIDAE Erebia epiphron
a : 1553
b : 3
b / a : 0.19%

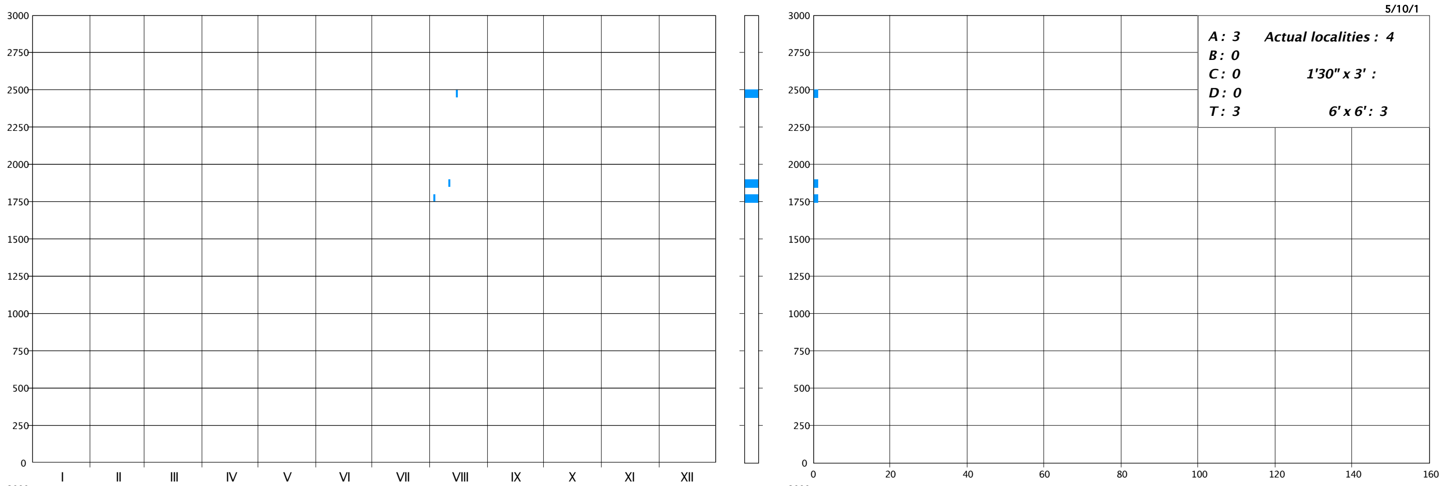


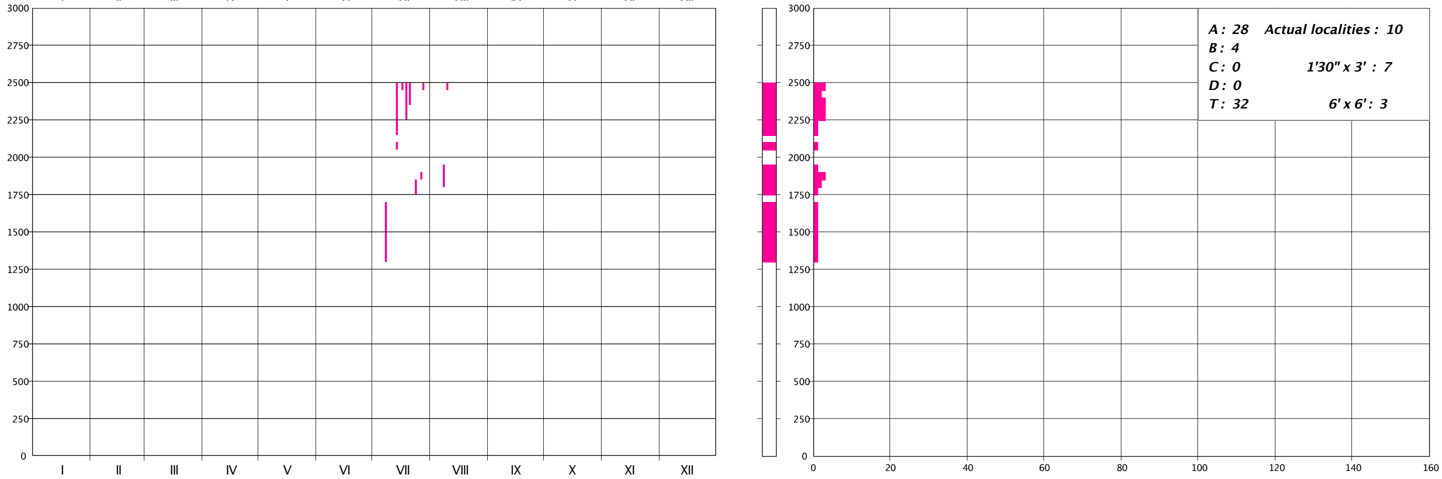


SATYRIDAE *Erebia ottomana*

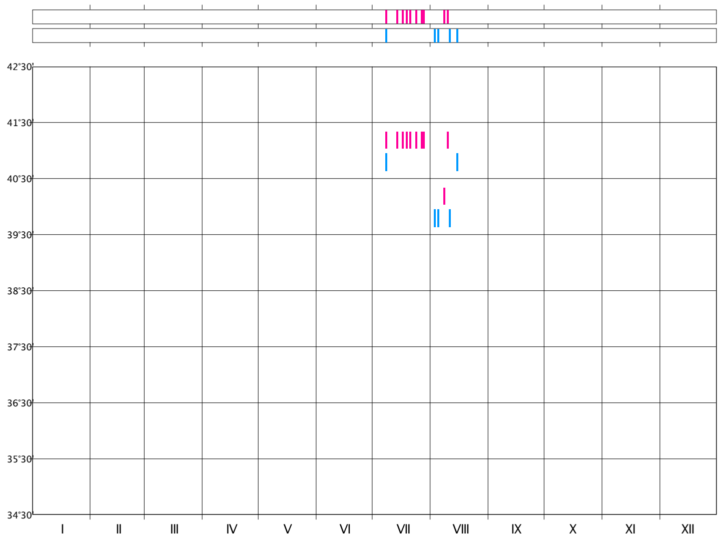


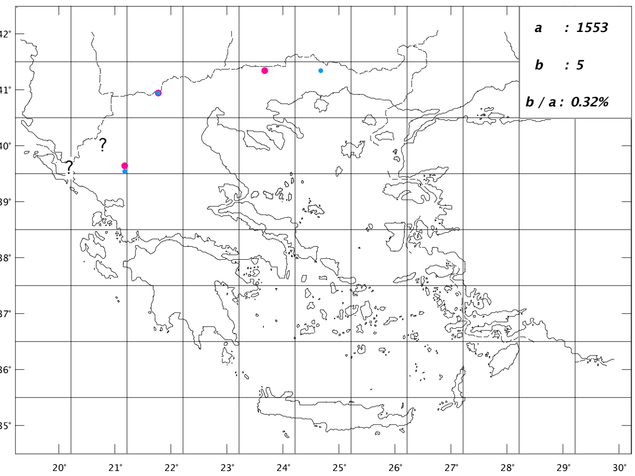


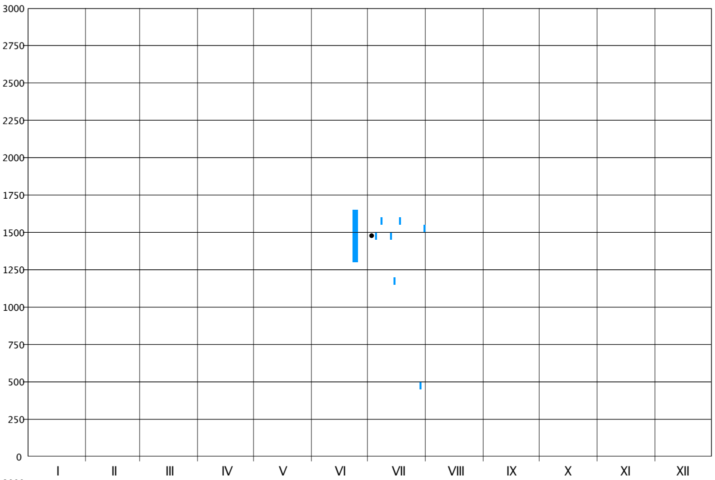


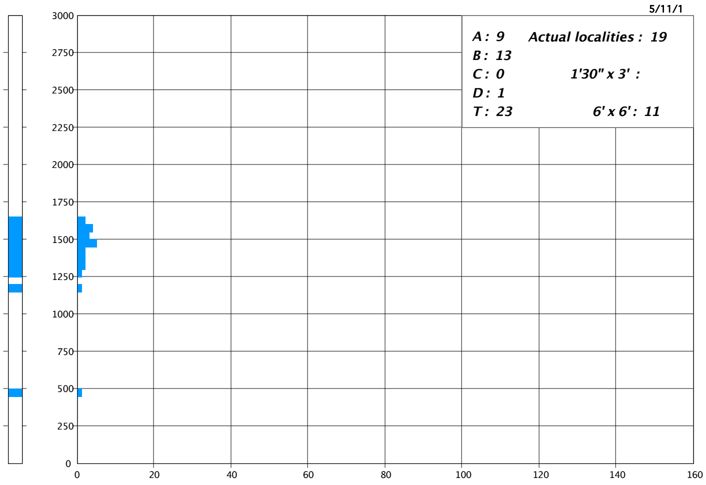


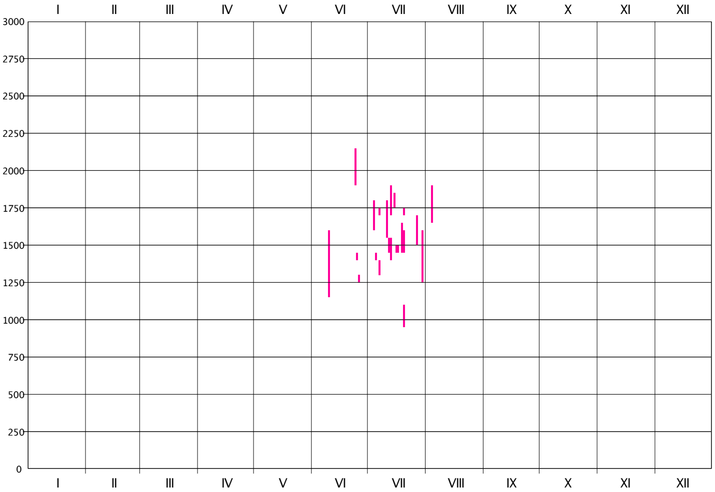
SATYRIDAE *Erebia cassioides*

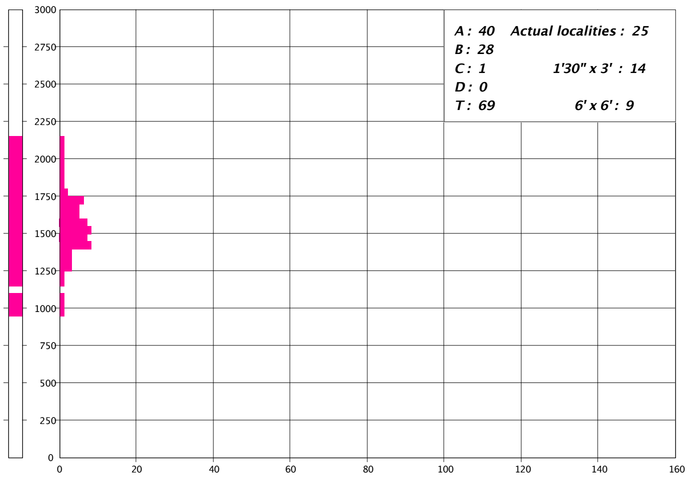


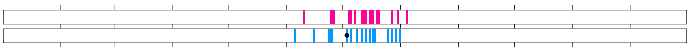




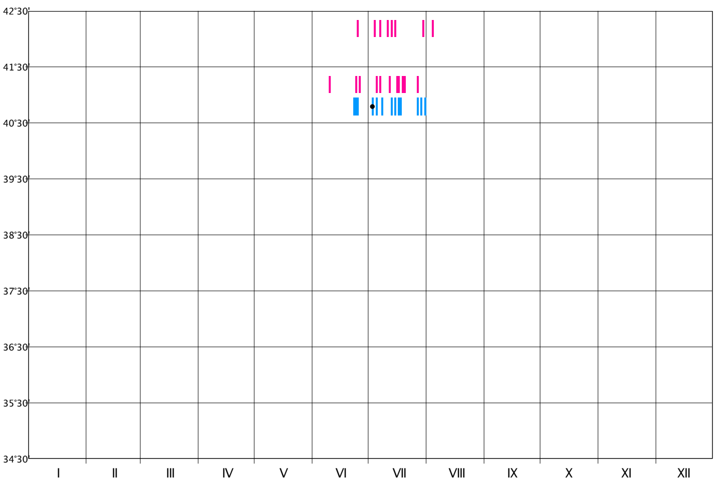


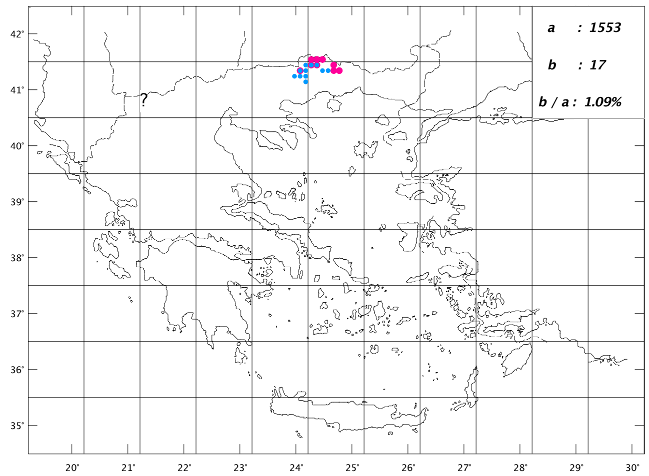


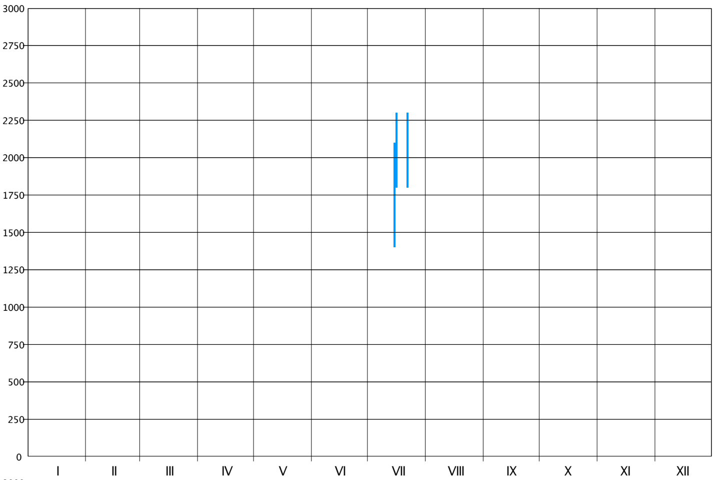


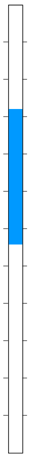


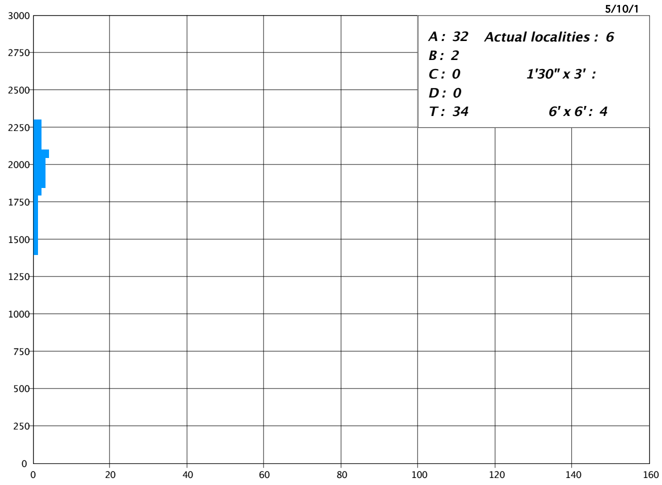
SATYRIDAE *Erebia oeme*

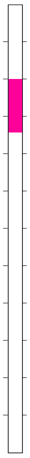


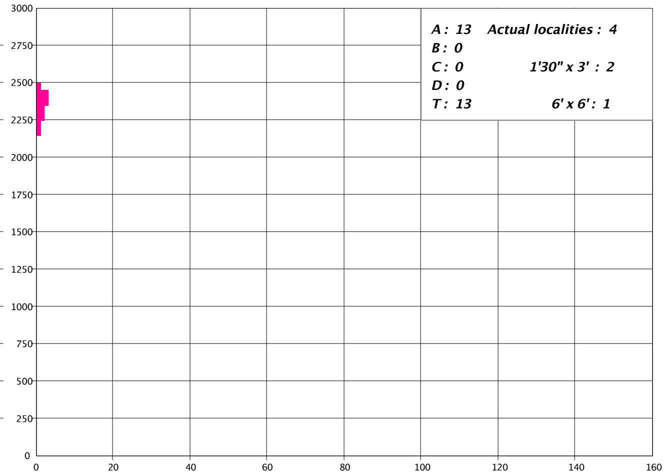


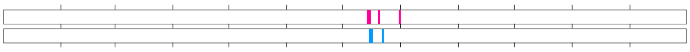




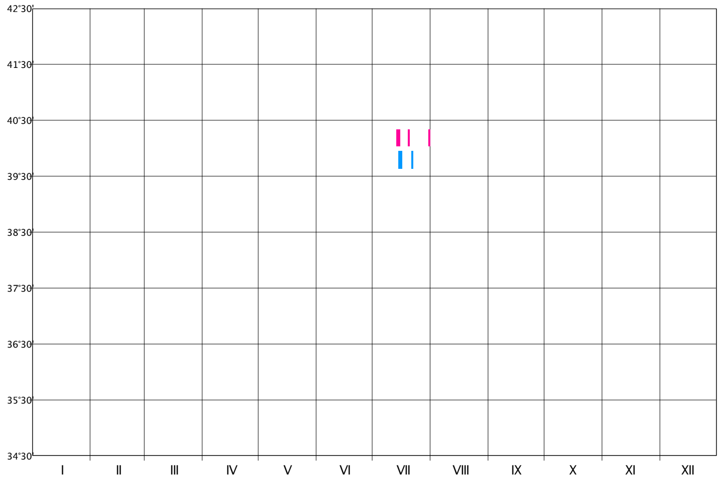


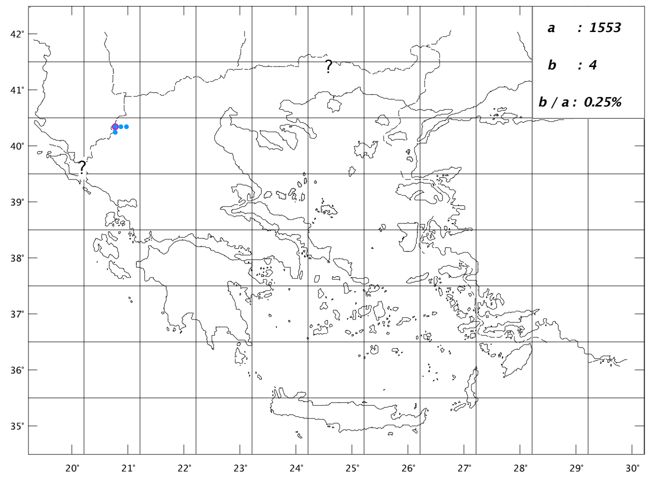


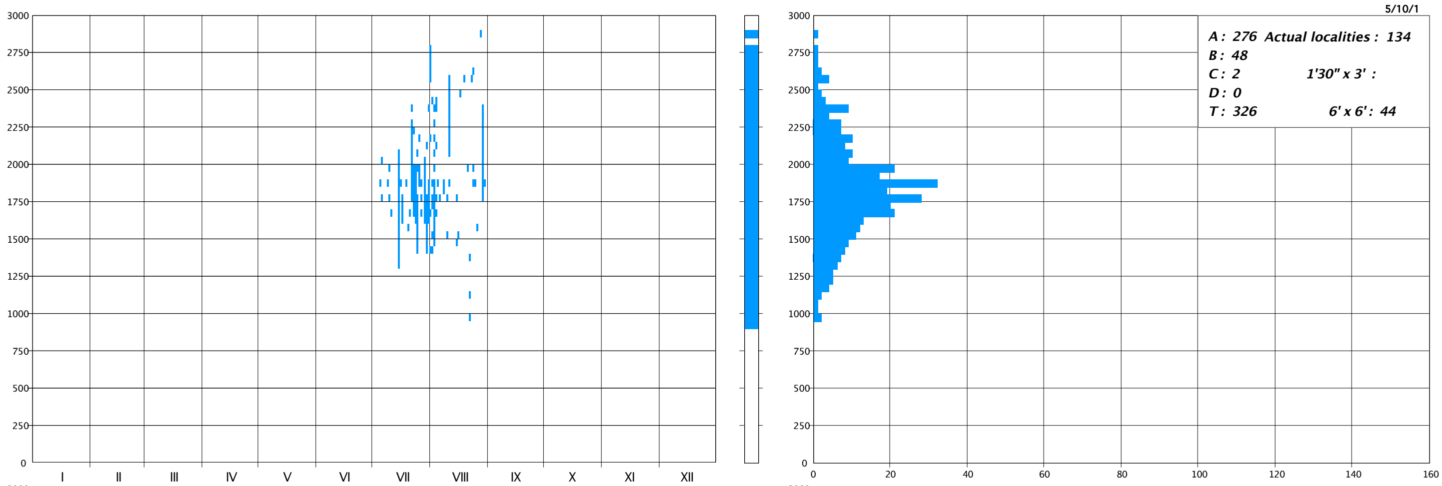


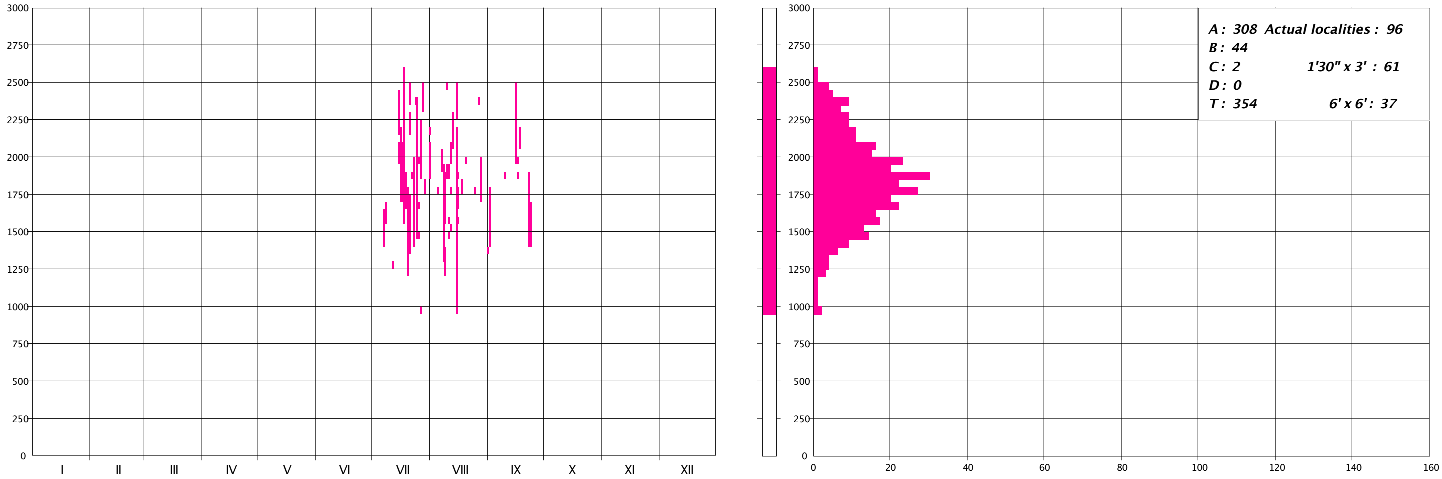


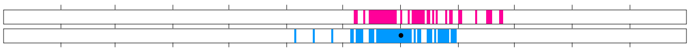
SATYRIDAE *Erebia rhodopensis*



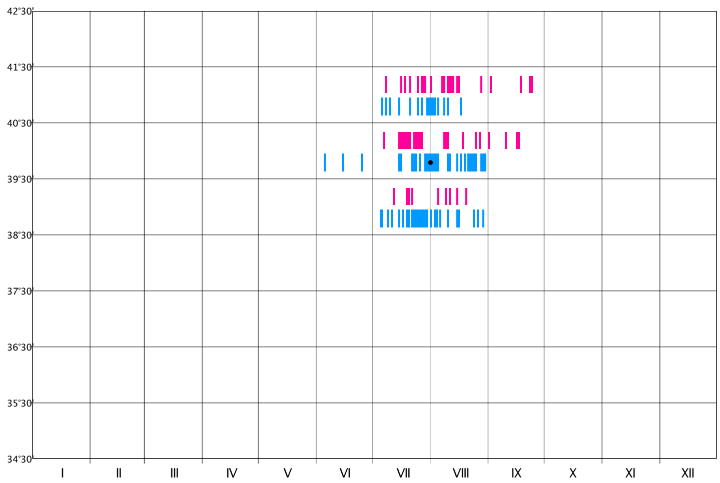


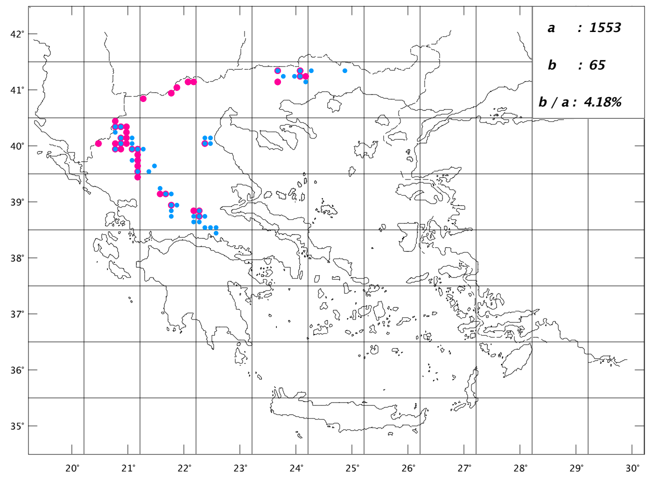


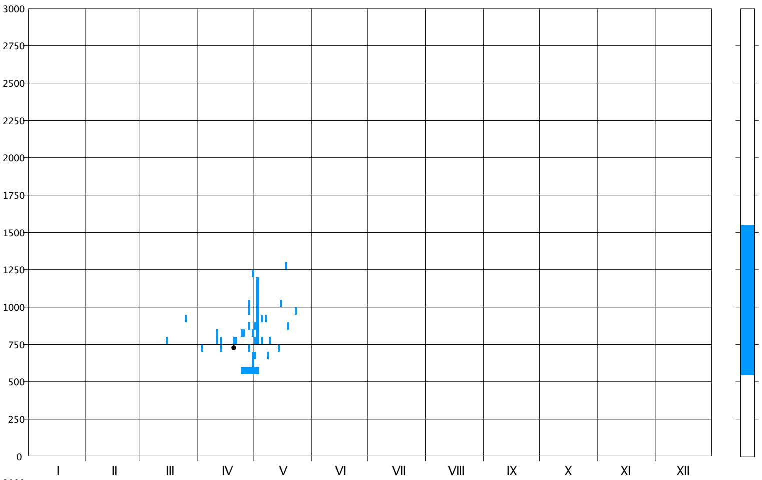


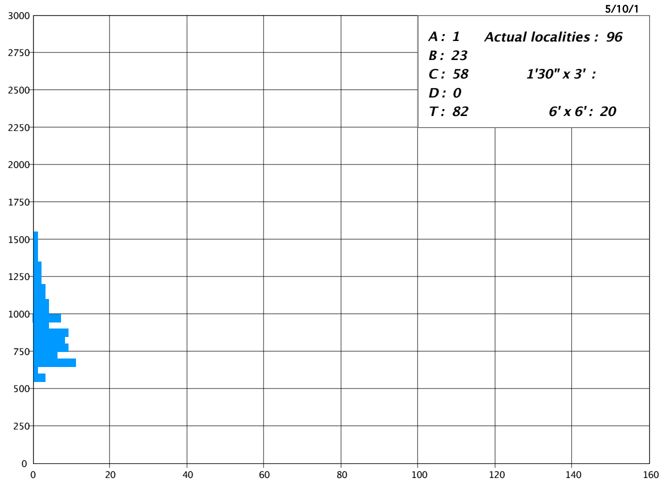


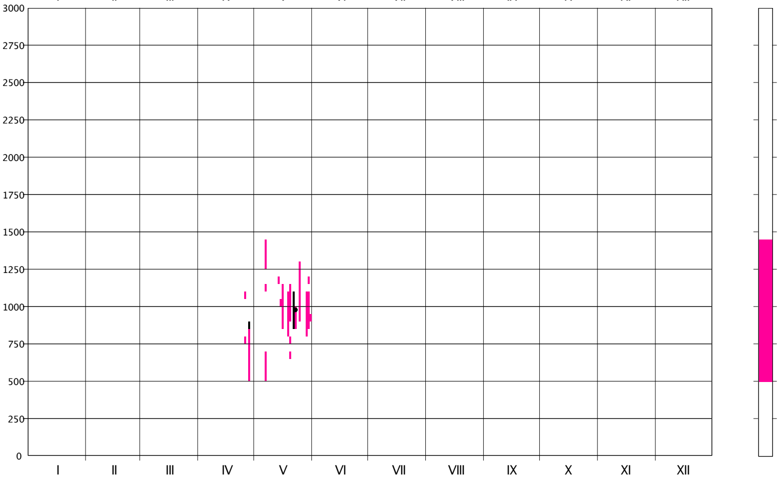
SATYRIDAE *Erebia melas*

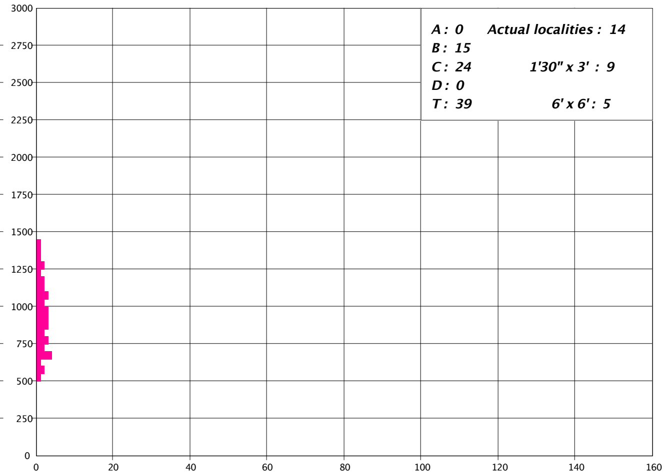




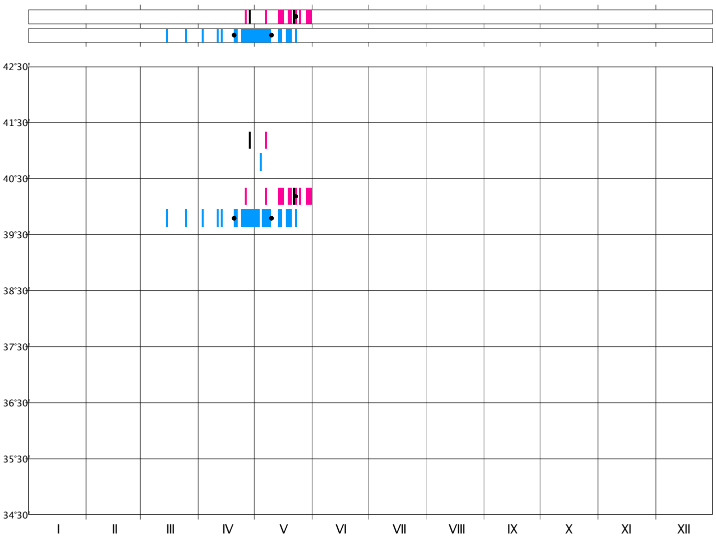


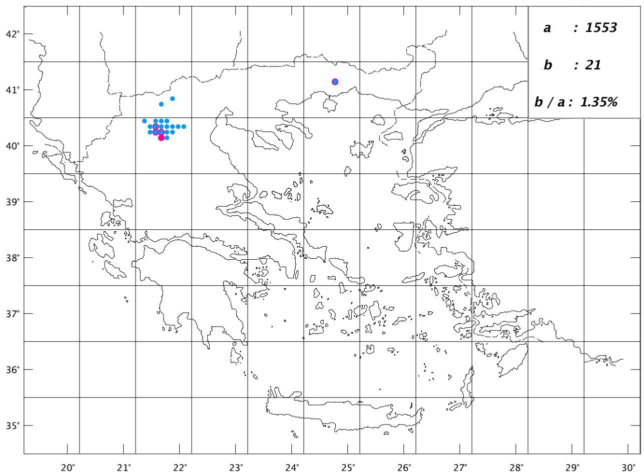


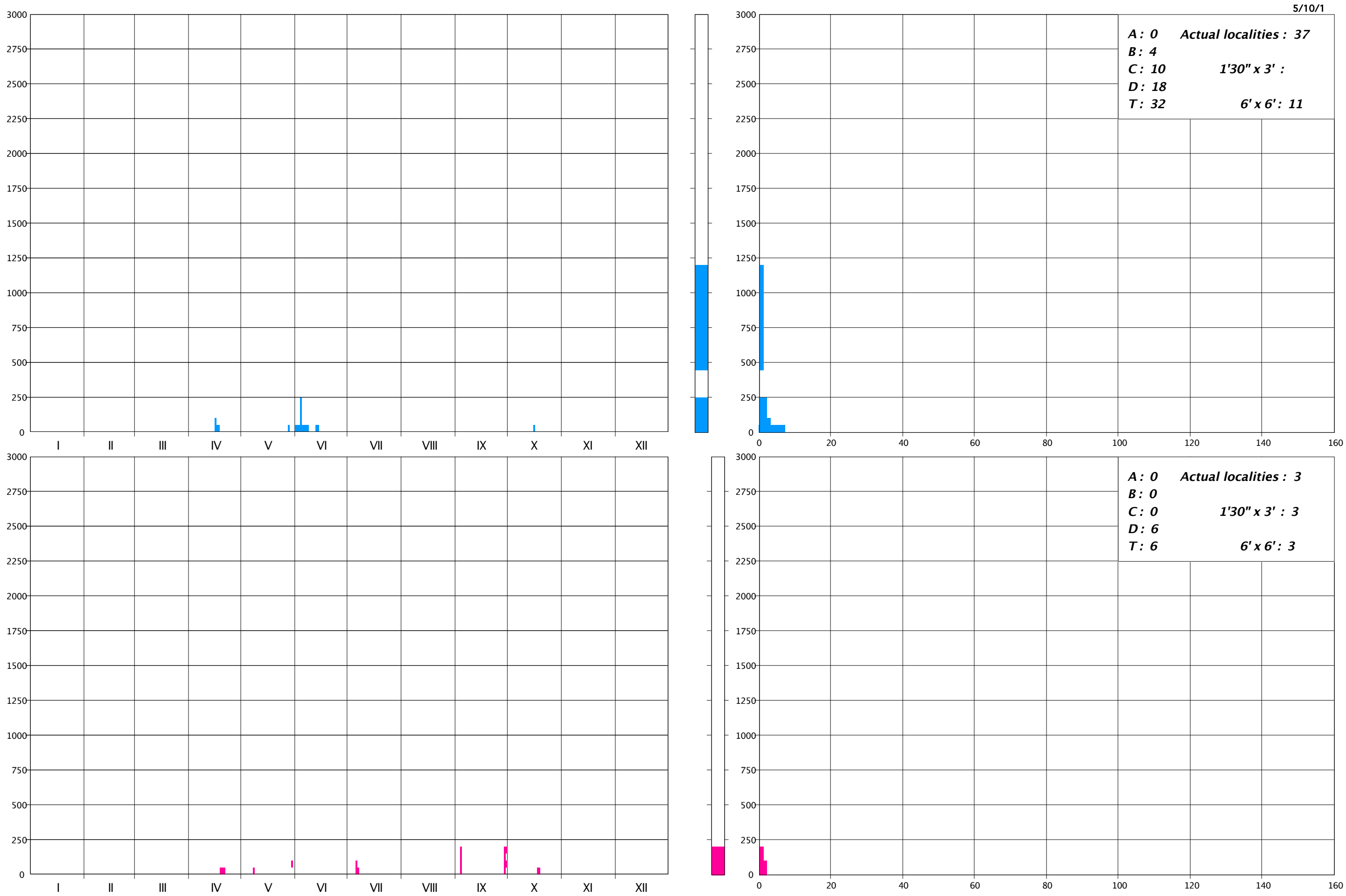




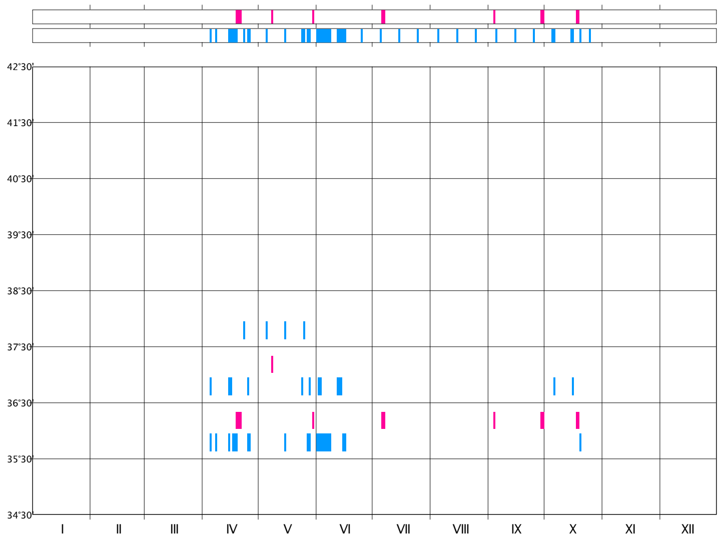
SATYRIDAE *Proterebia afra*

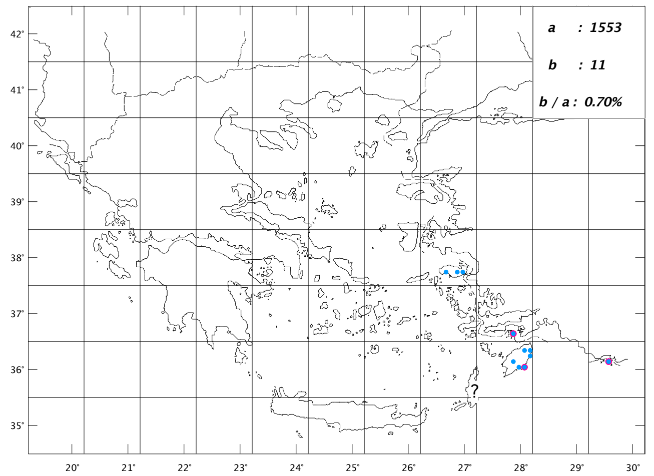


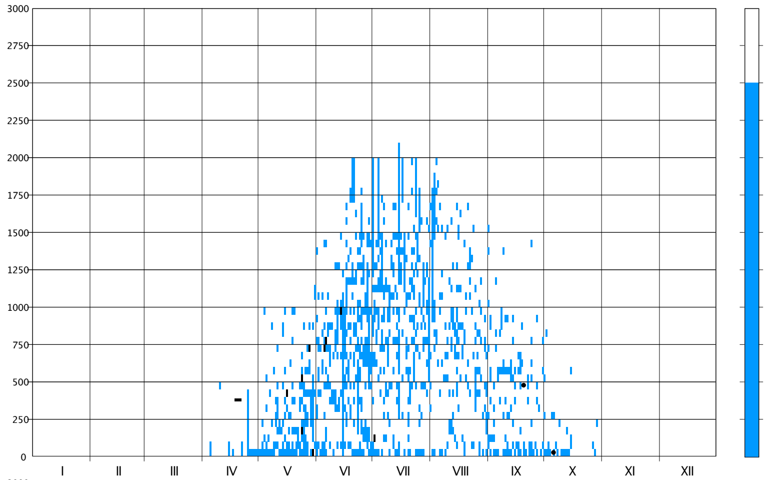


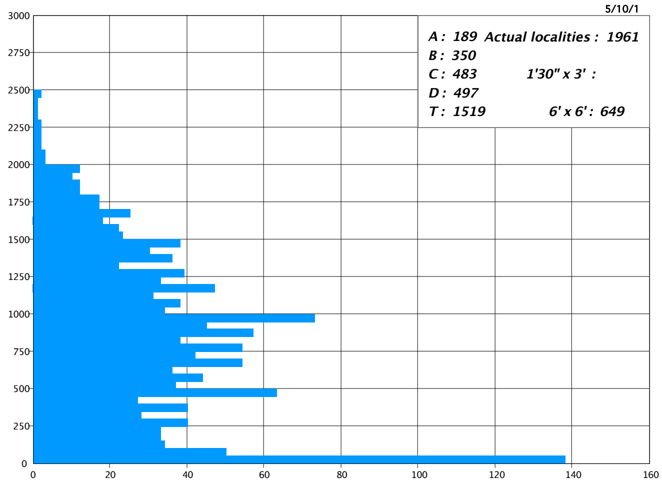


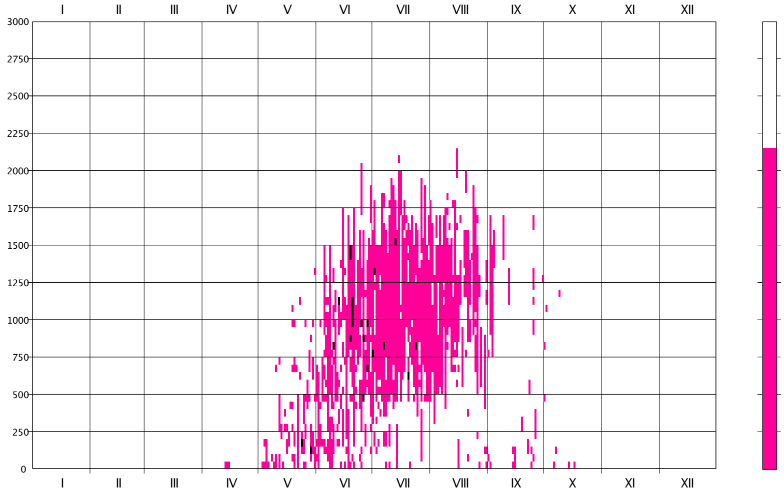
SATYRIDAE *Ypthima asterope*

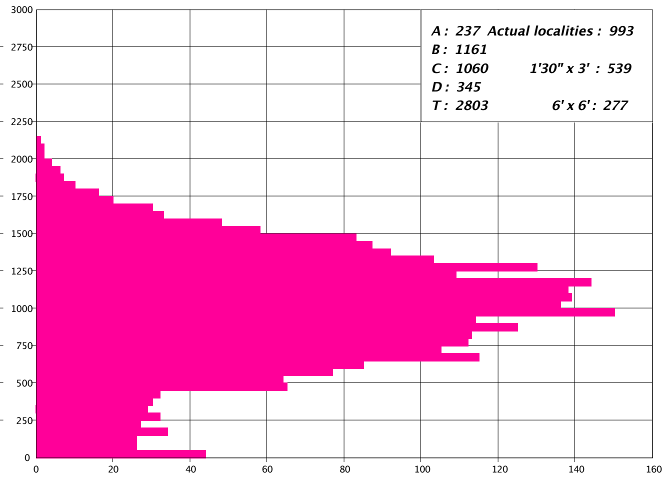




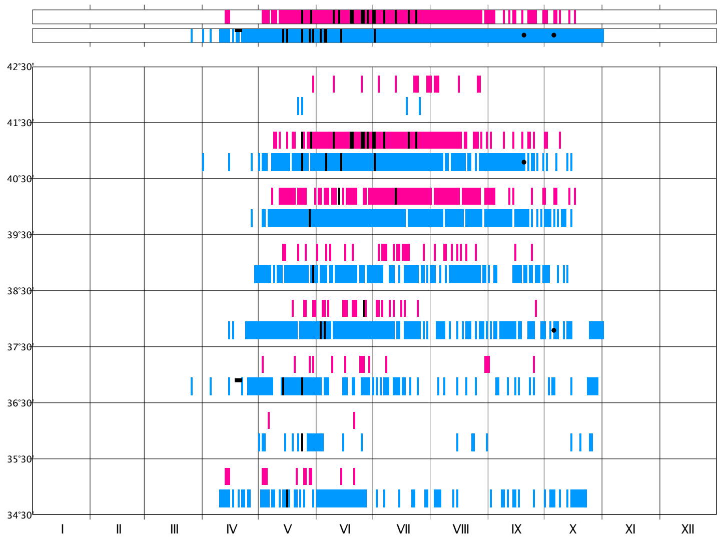


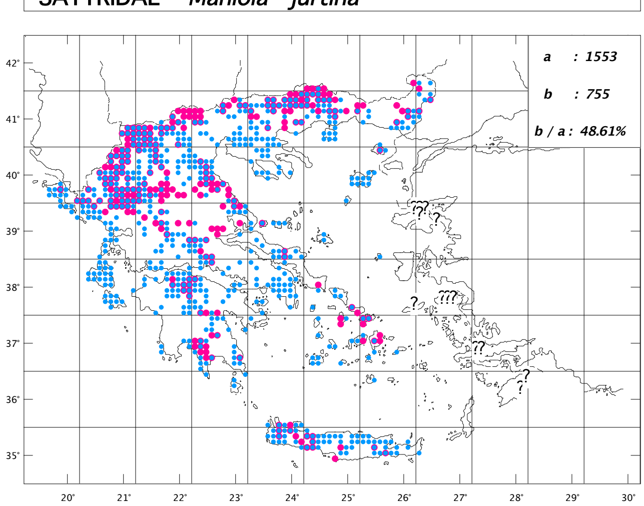


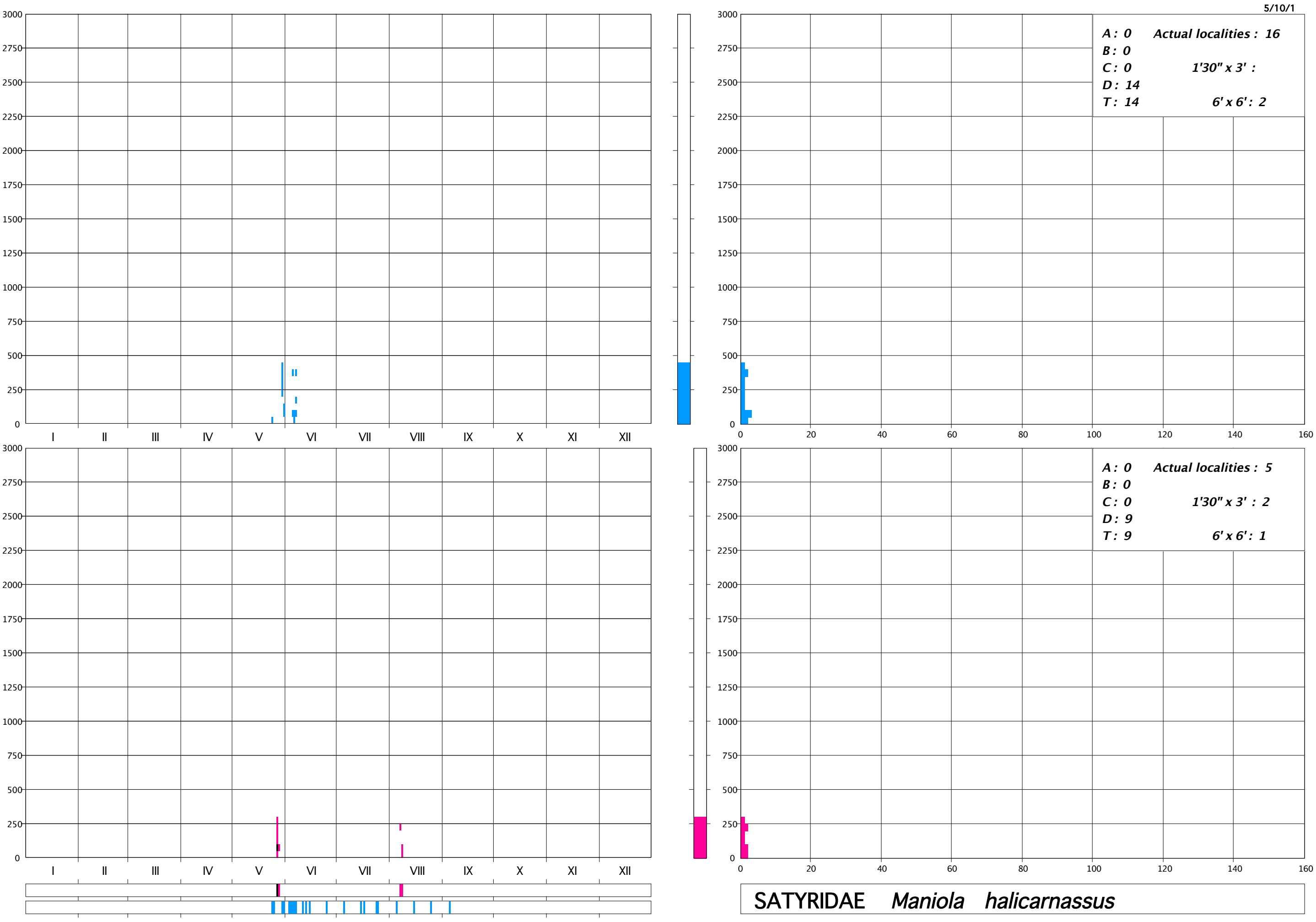




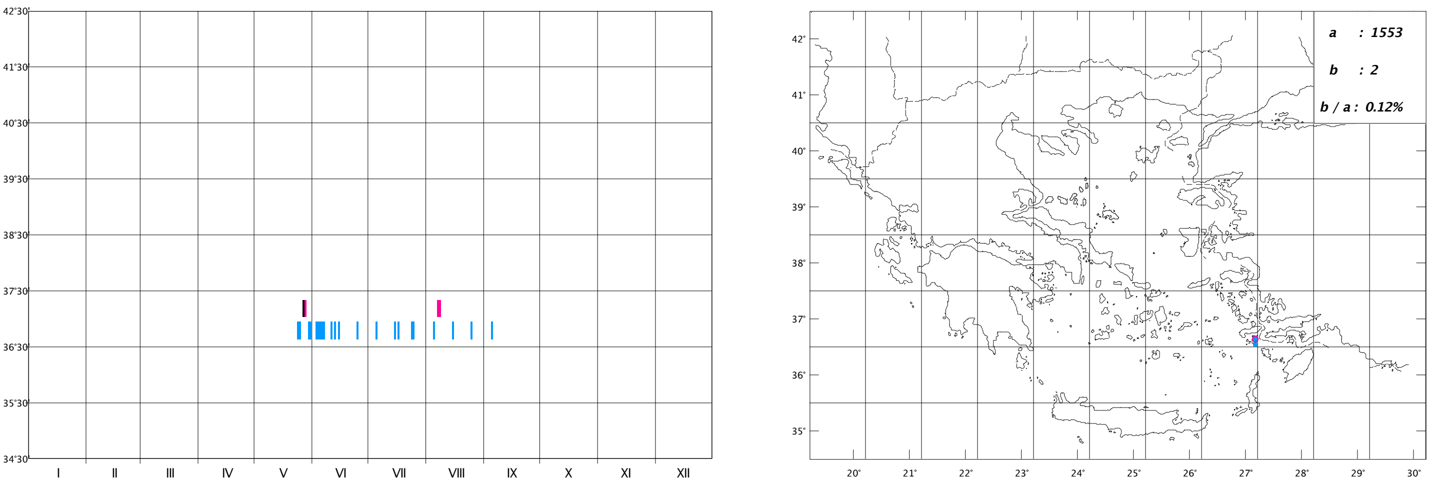
SATYRIDAE *Maniola jurtina*

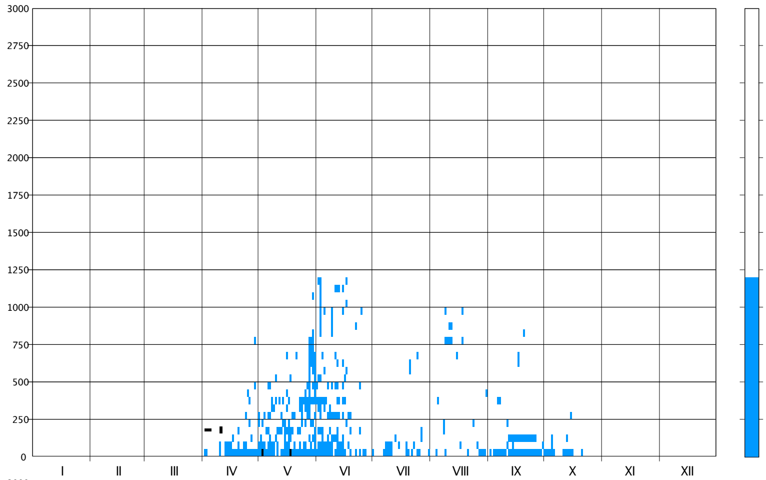


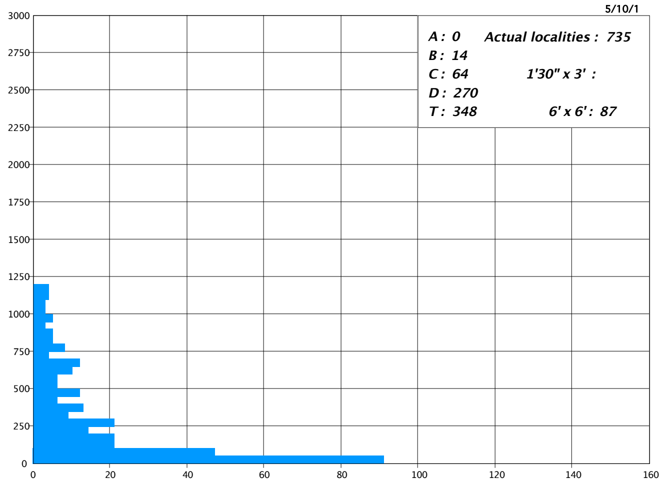


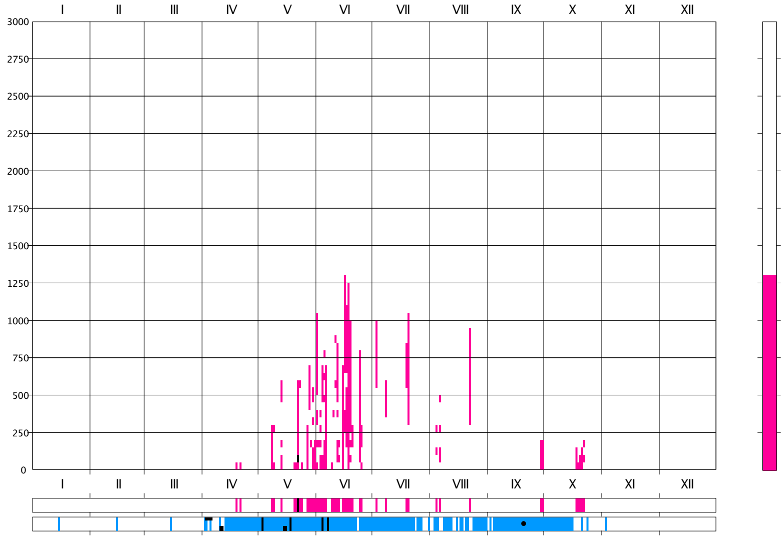


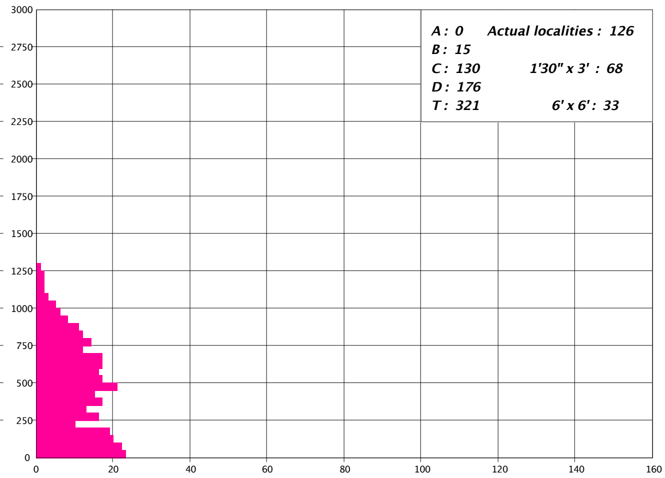
SATYRIDAE *Maniola halicarnassus*



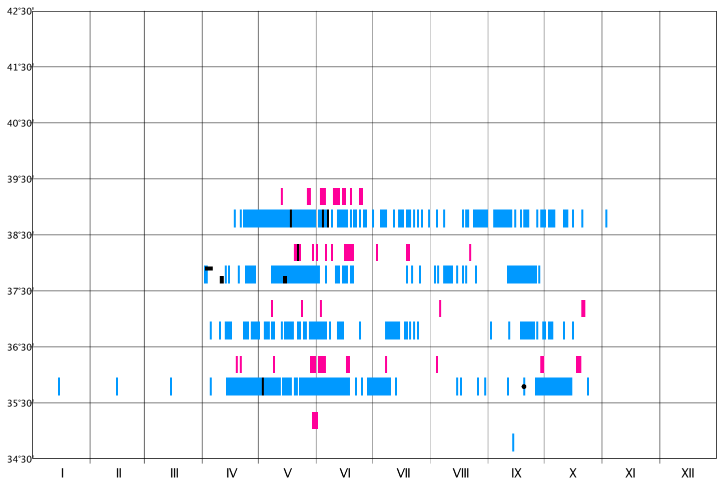


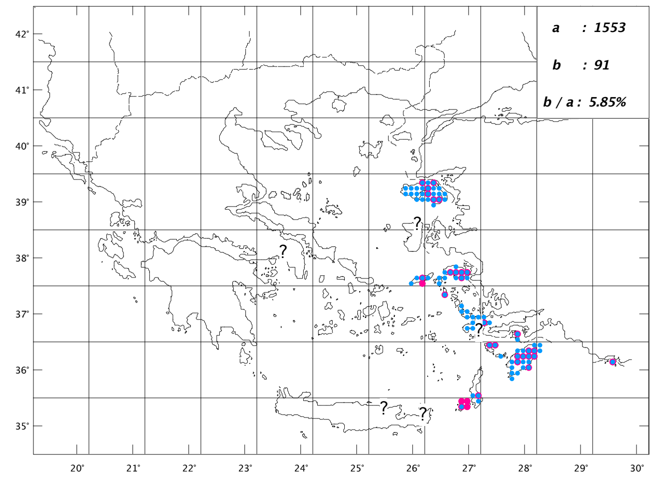


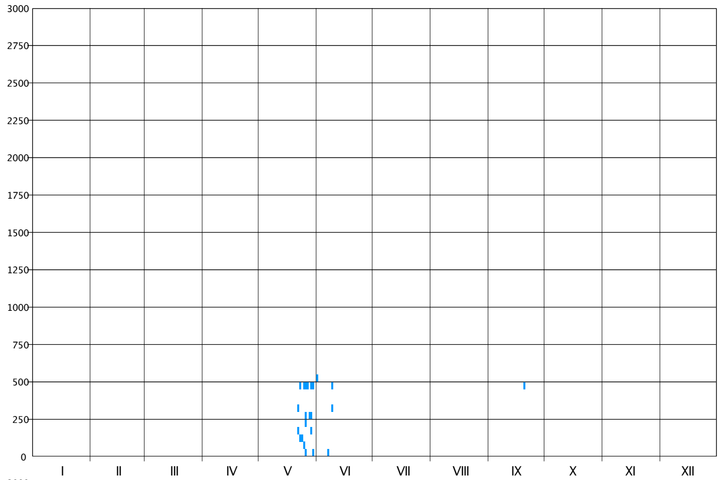


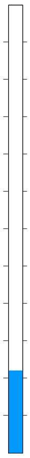


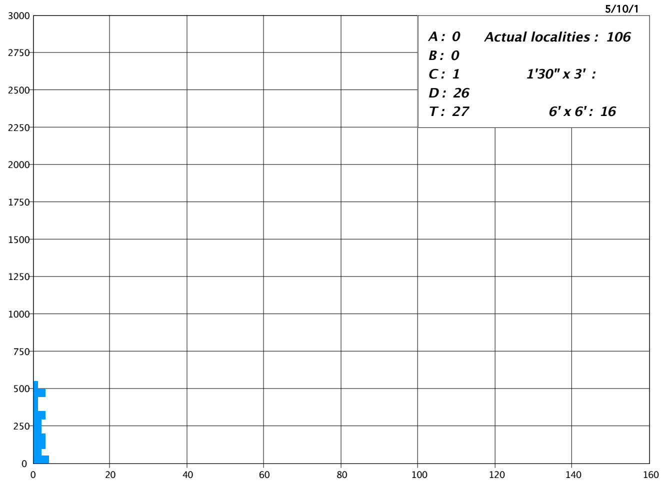
SATYRIDAE *Maniola telmessia*

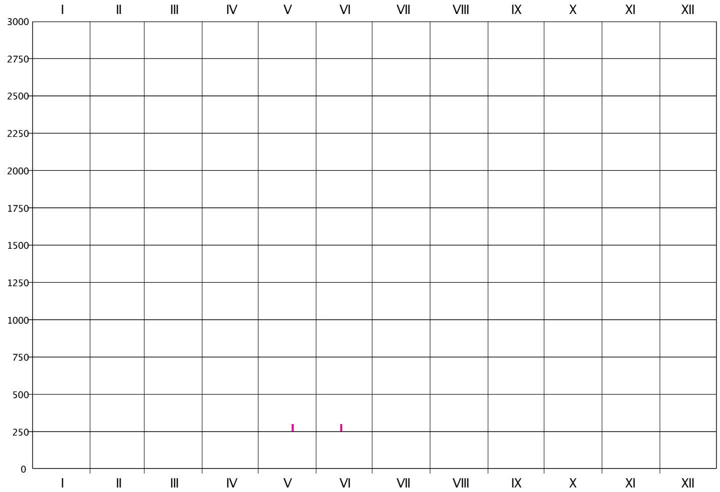


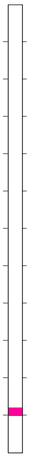


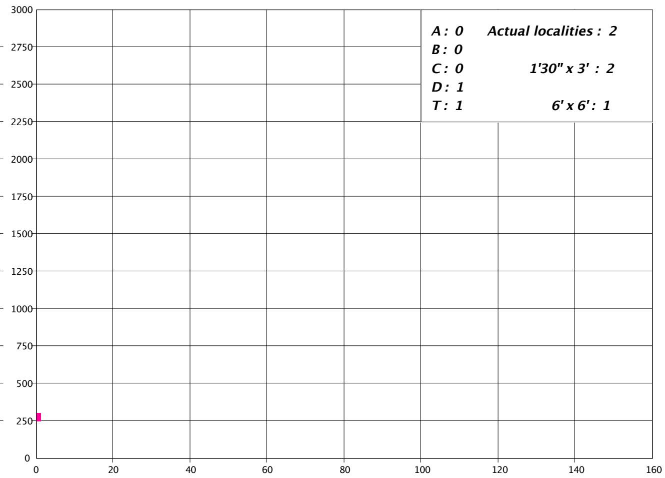


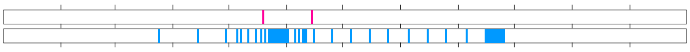




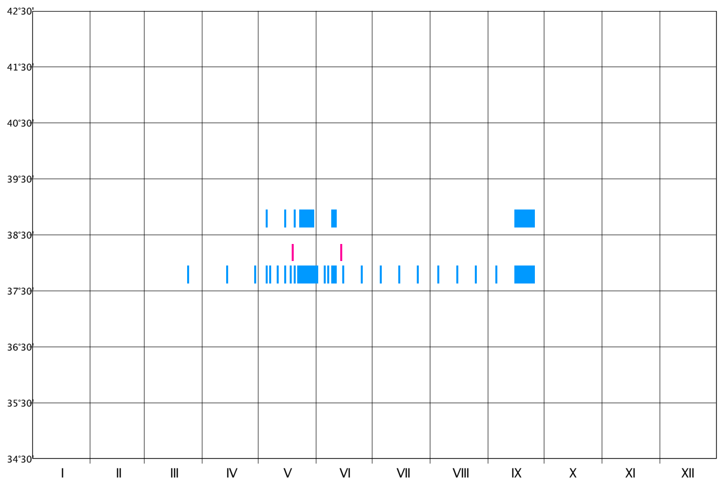


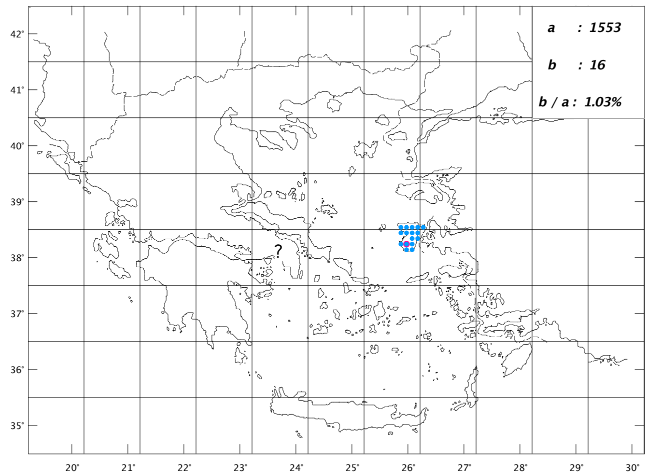


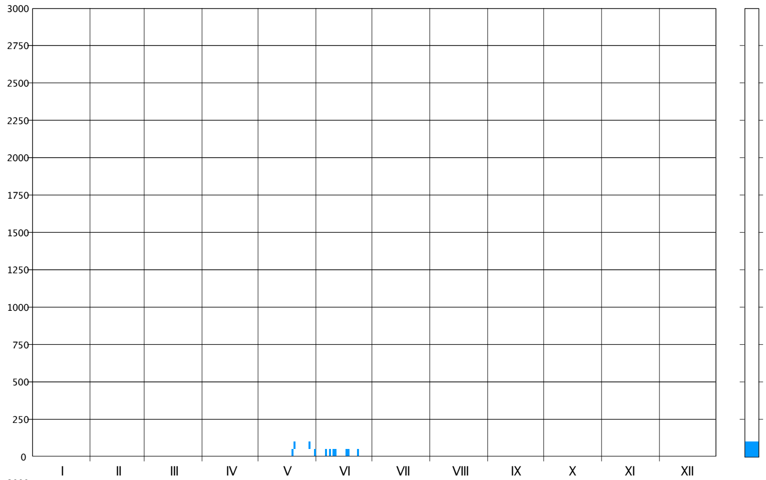


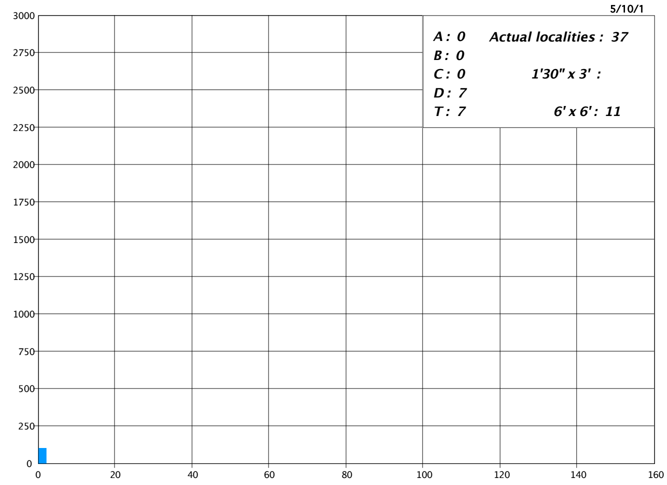


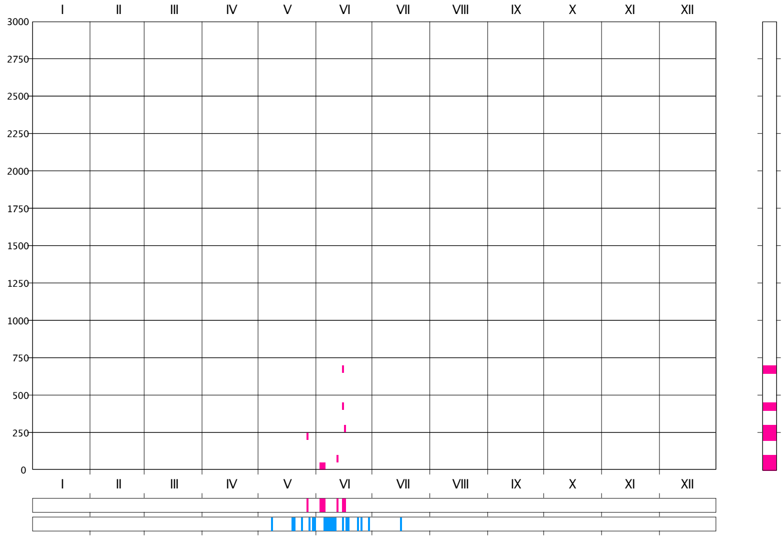
SATYRIDAE *Maniola chia*

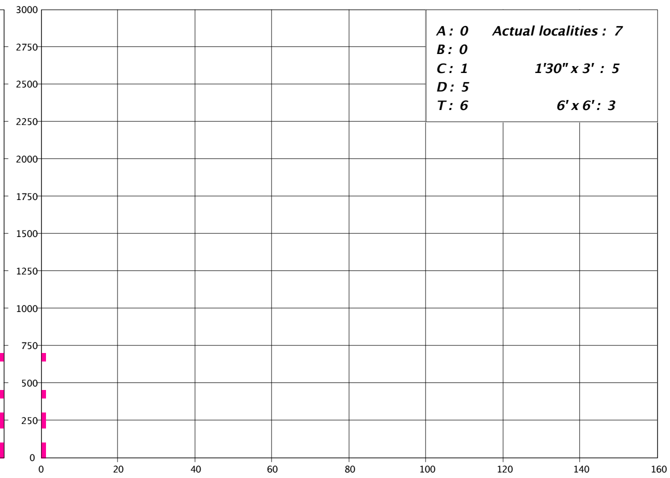




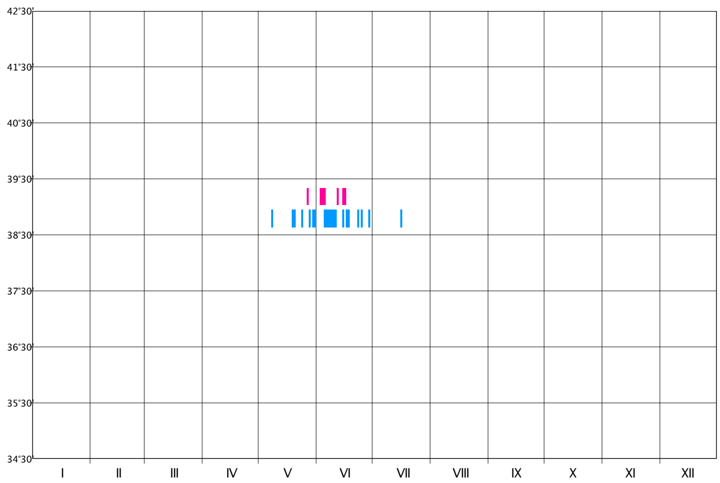


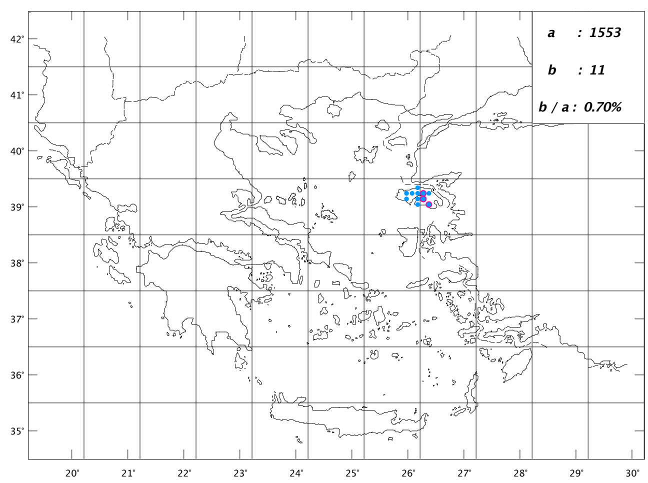


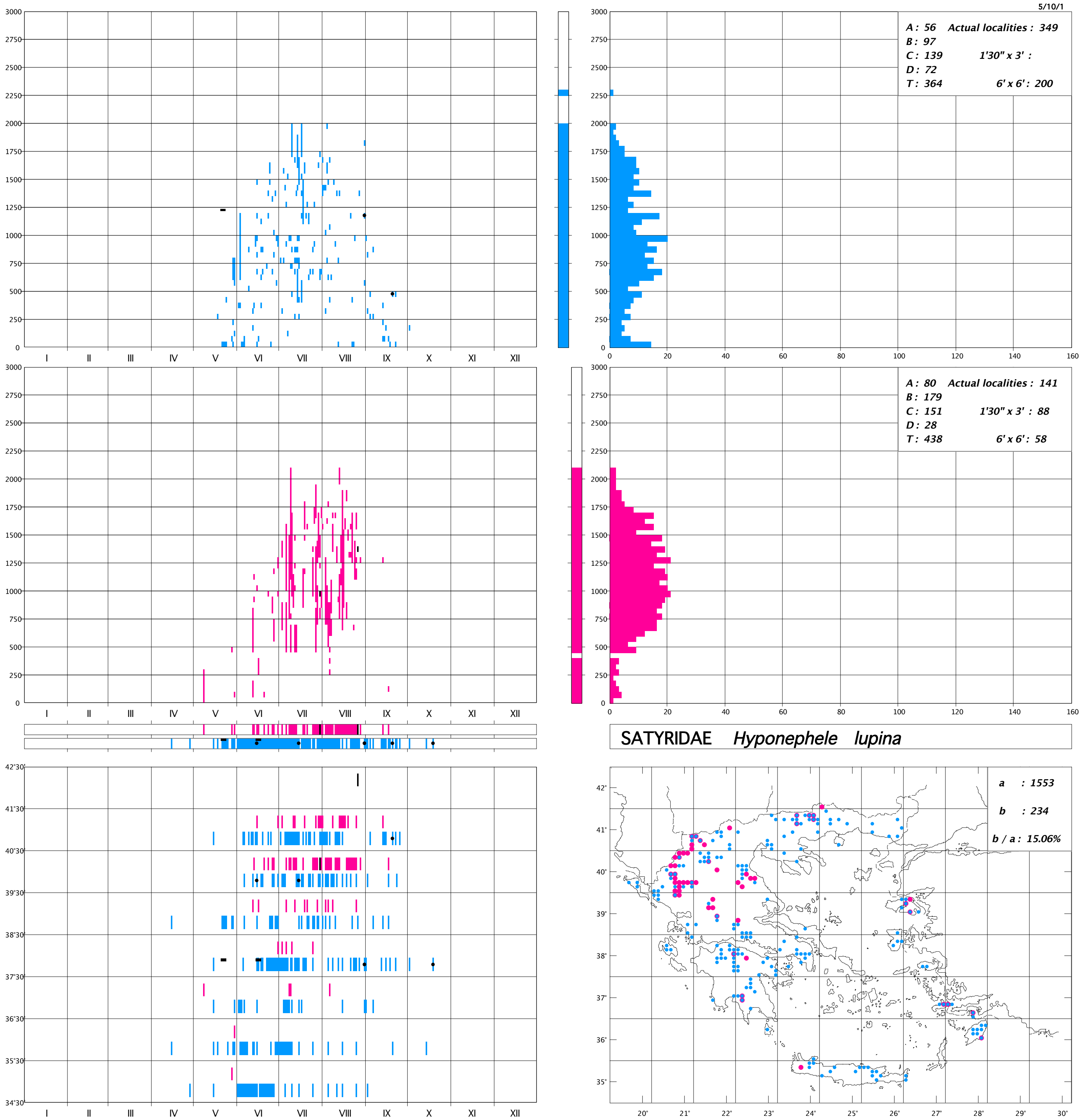


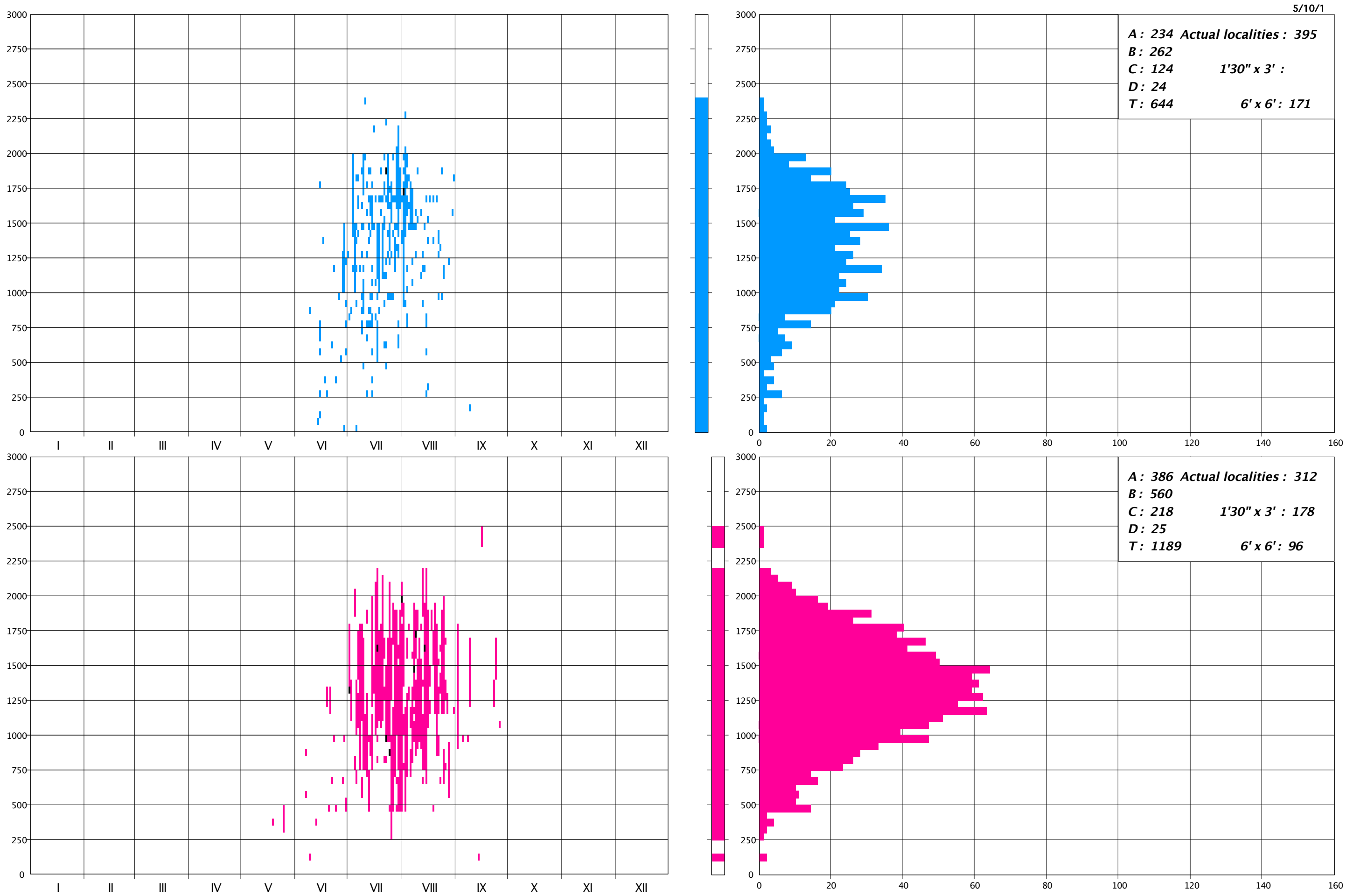


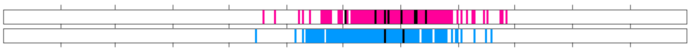
SATYRIDAE *Maniola megala*



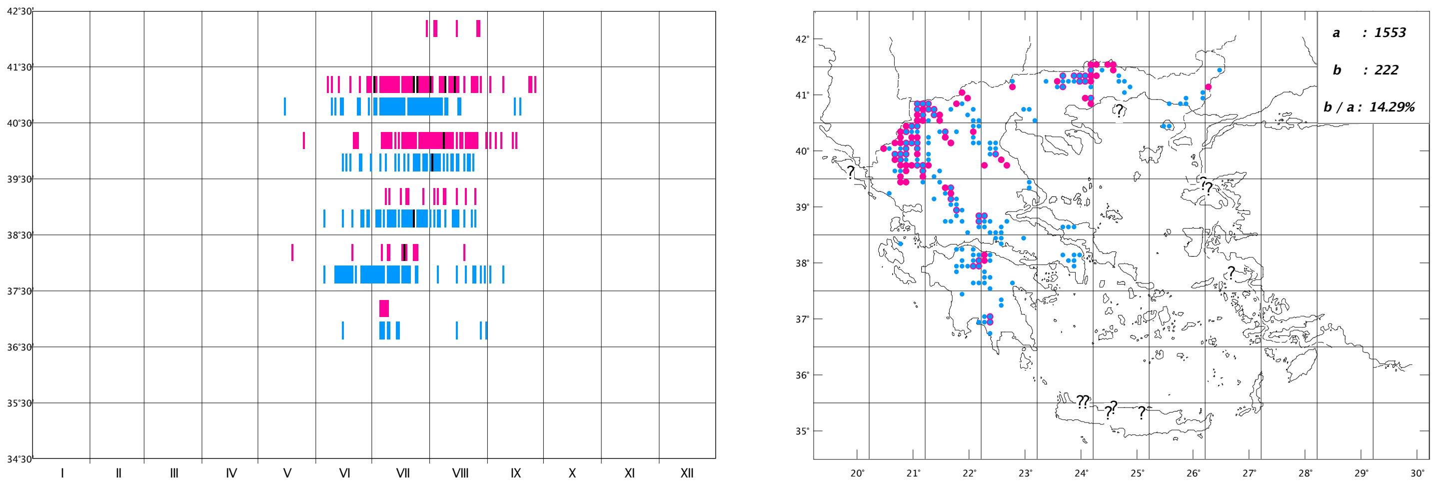


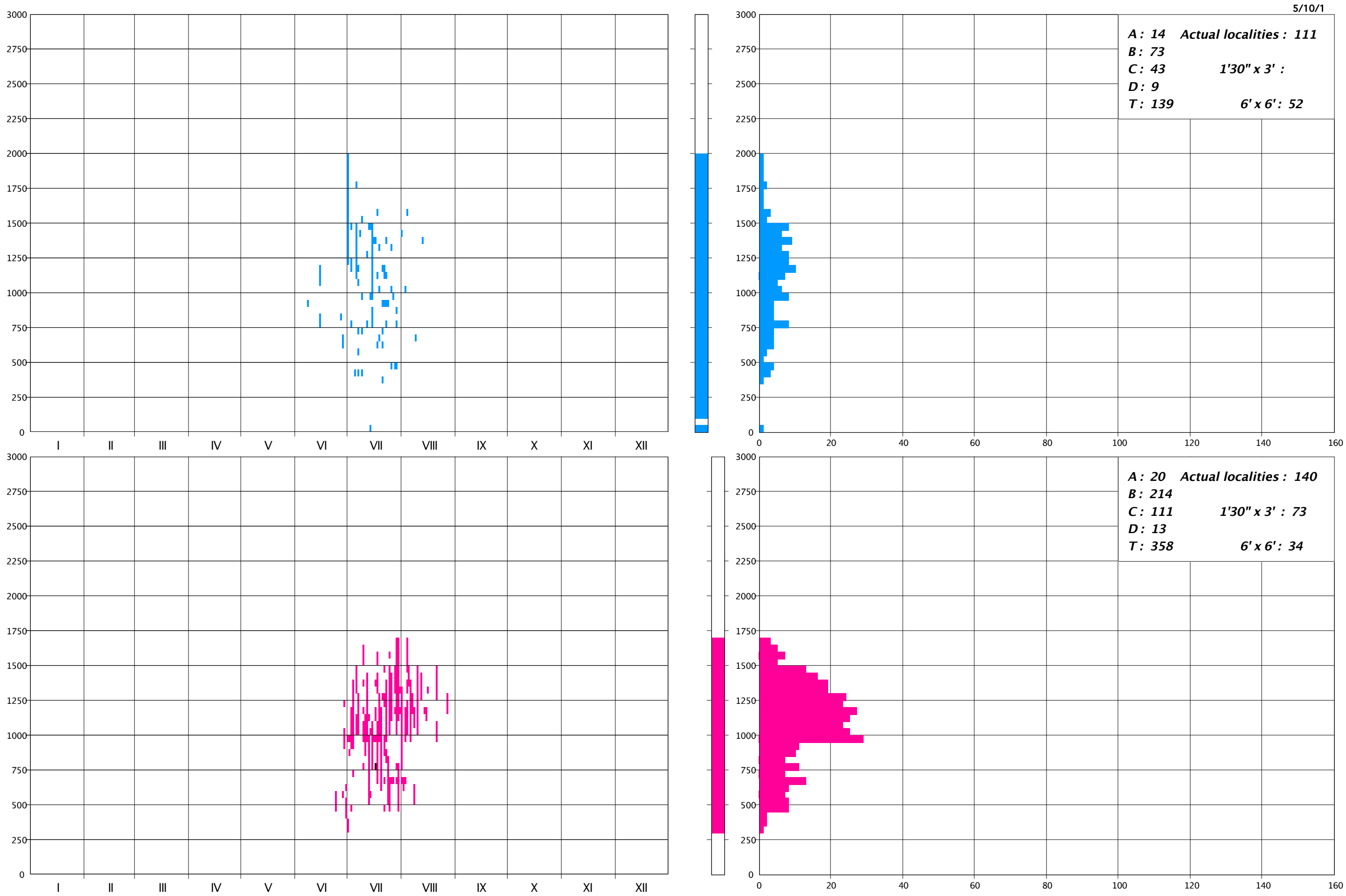

A : 56 Actual localities : 349
B : 97
C : 139 1'30" x 3' :
D : 72
T : 364 6' x 6' : 200
A : 80 Actual localities : 141
B : 179
C : 151 1'30" x 3' : 88
D : 28
T : 438 6' x 6' : 58
SATYRIDAE Hyponephele lupina
a : 1553
b : 234
b / a : 15.06%

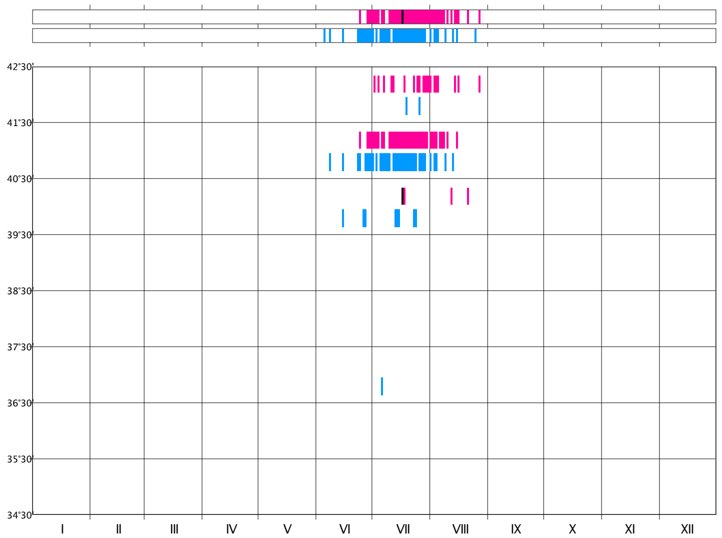




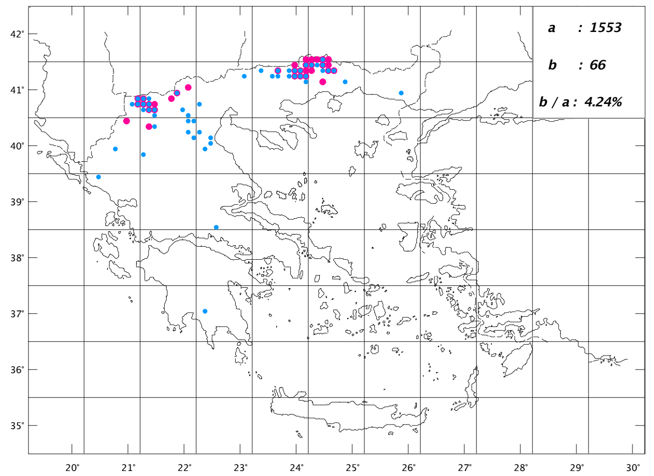
SATYRIDAE *Hyponephele lycaon*

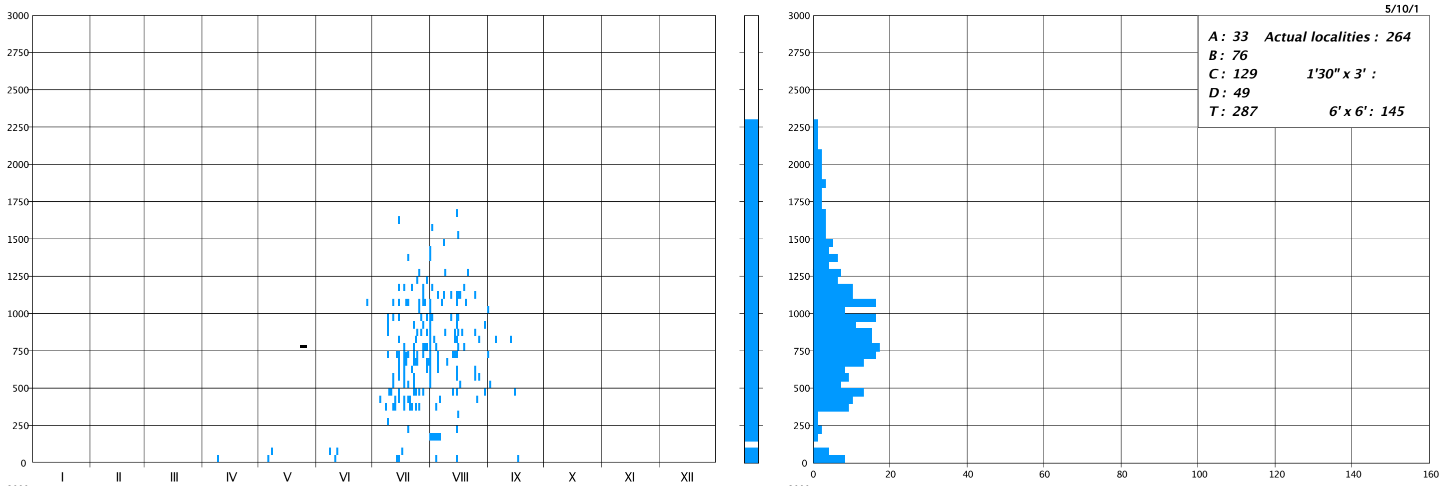


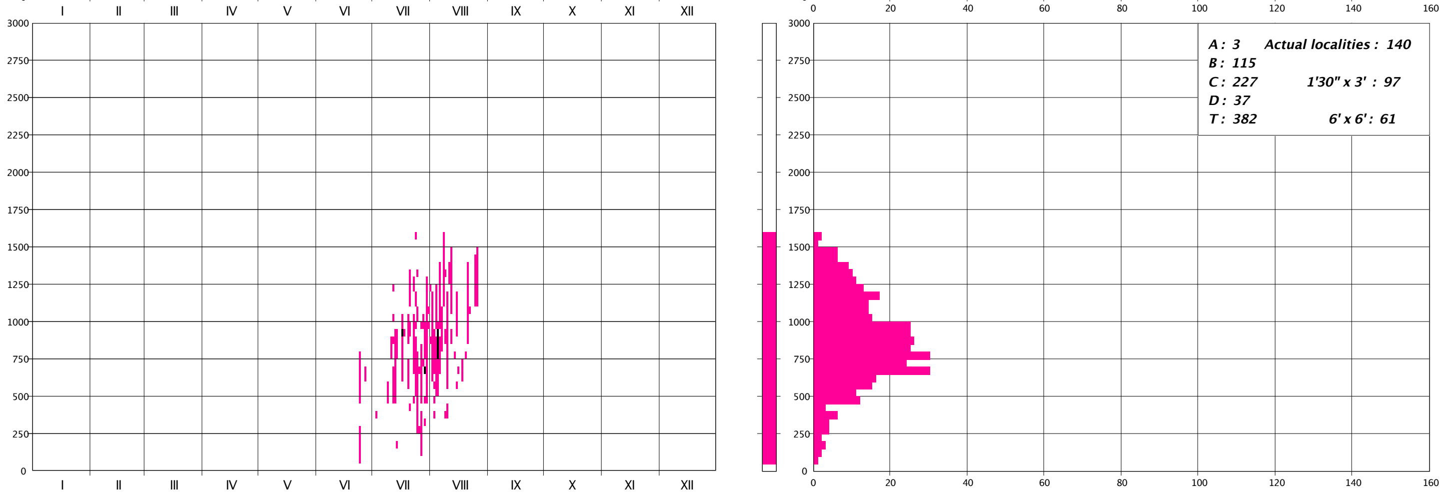




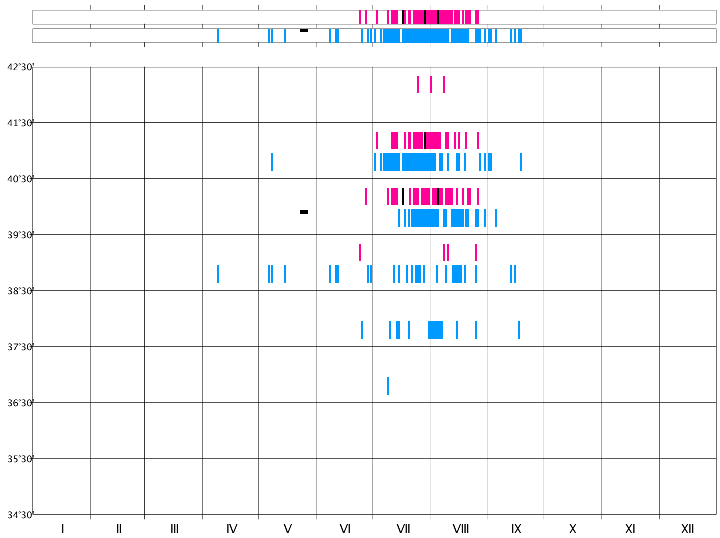
SATYRIDAE *Aphantopus hyperantus*

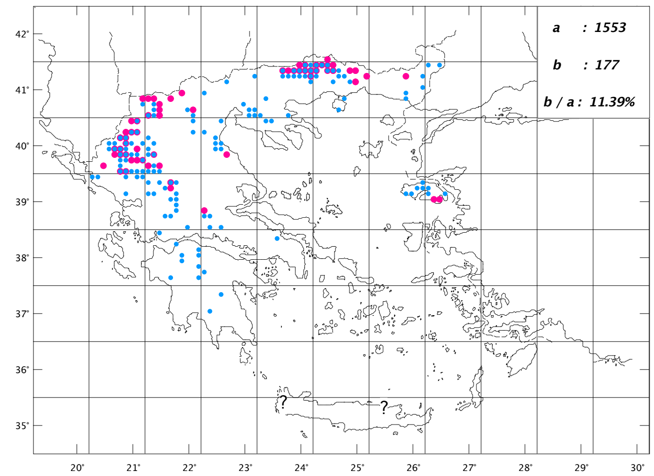


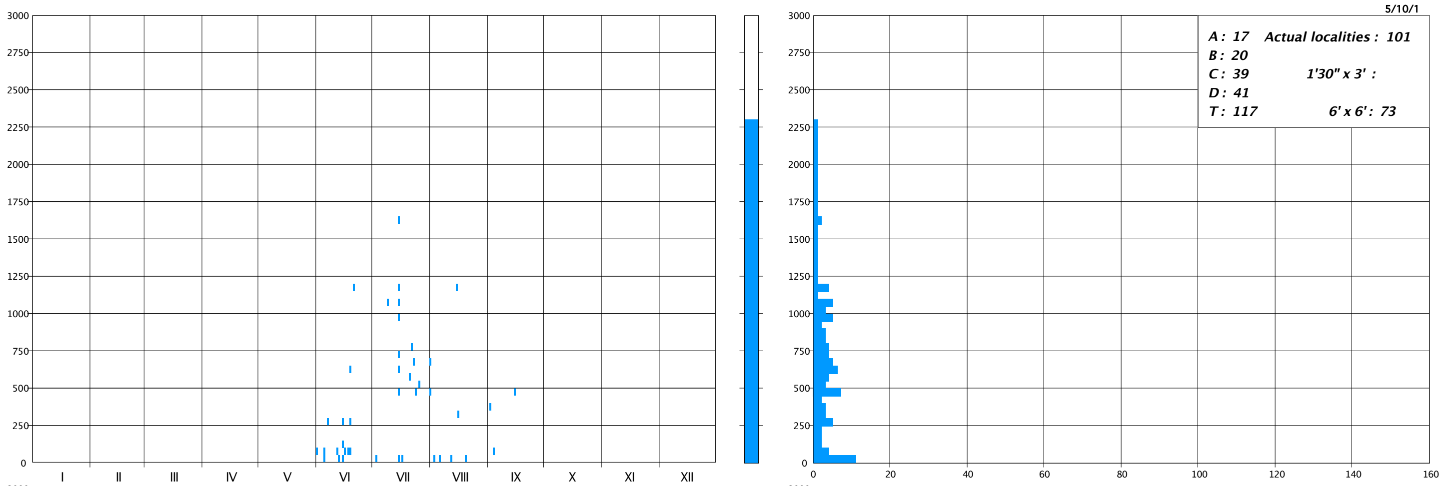


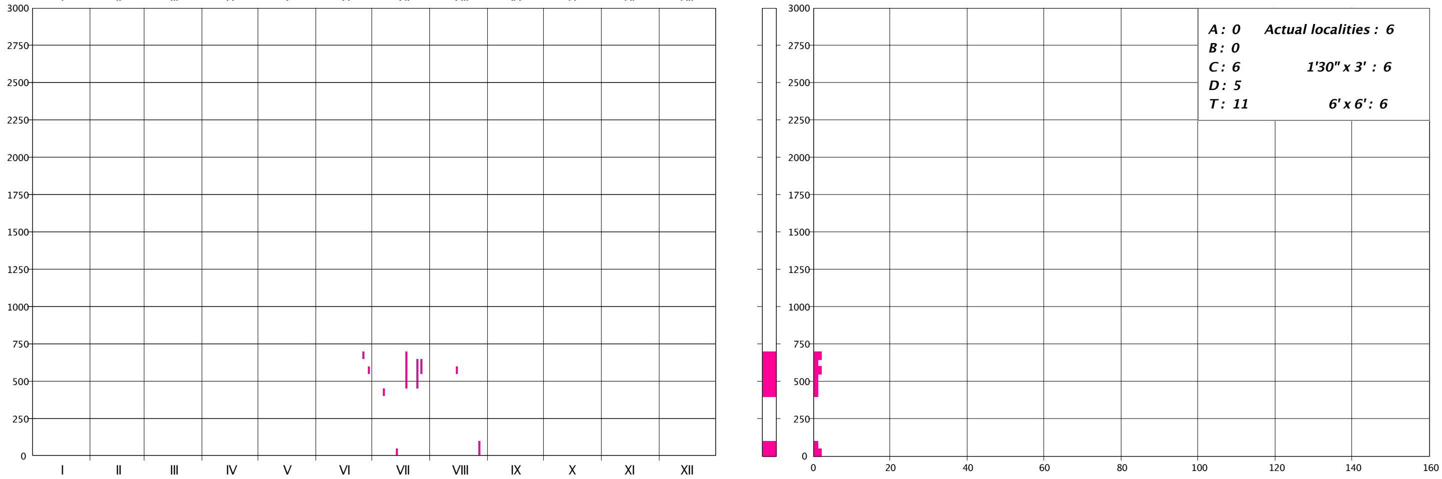


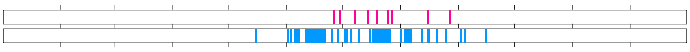
SATYRIDAE *Pyronia tithonus*



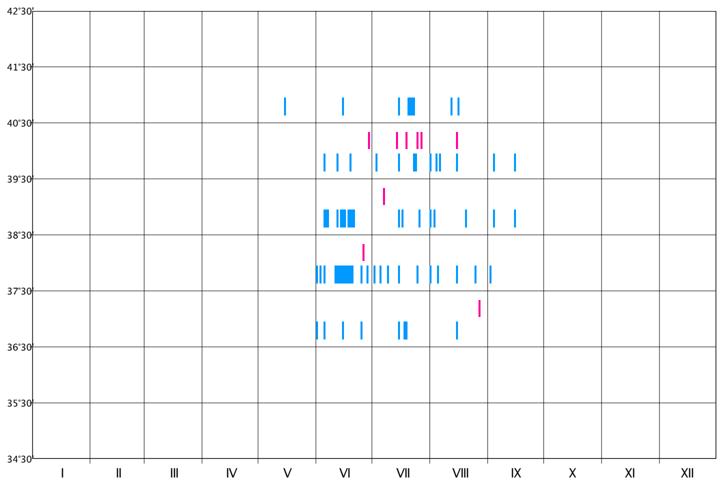


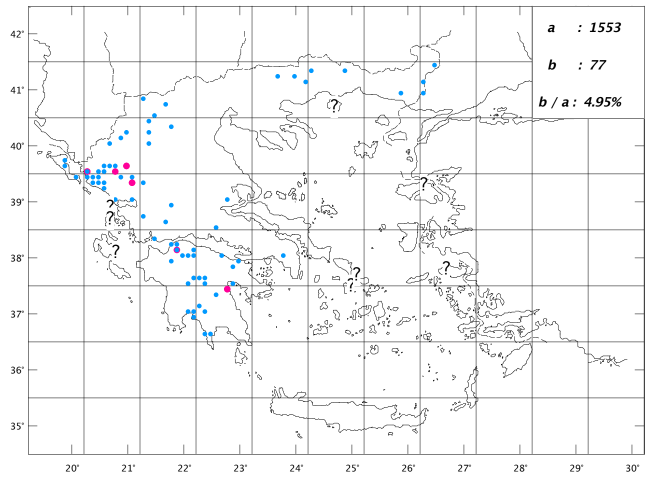




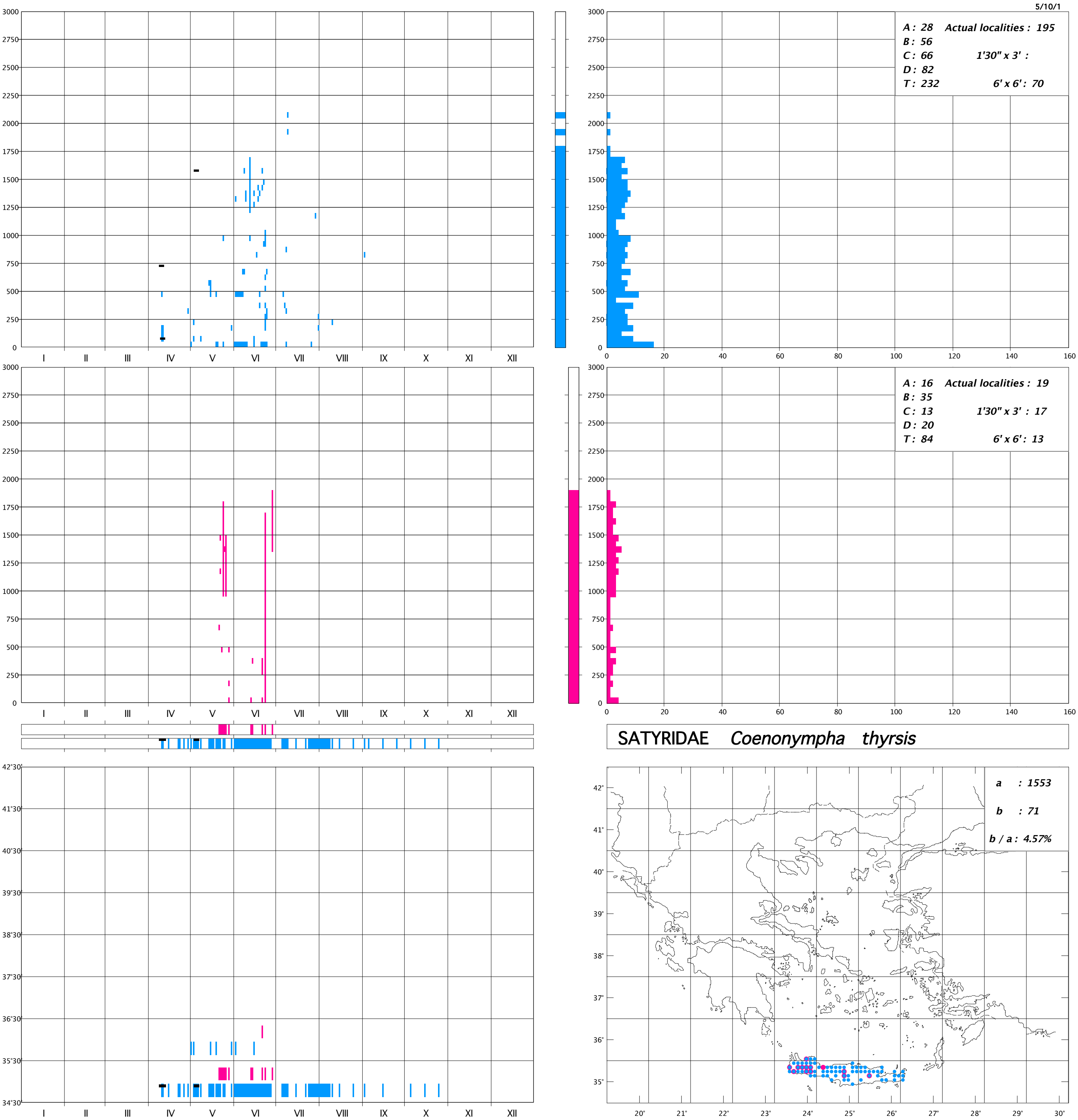


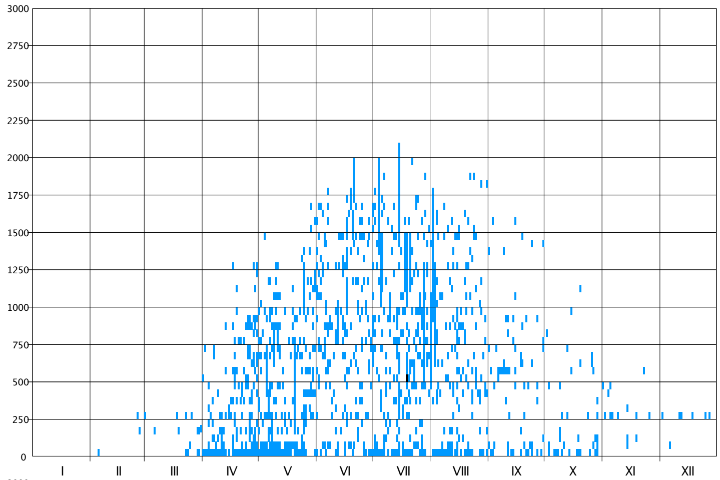
SATYRIDAE *Pyronia cecilia*

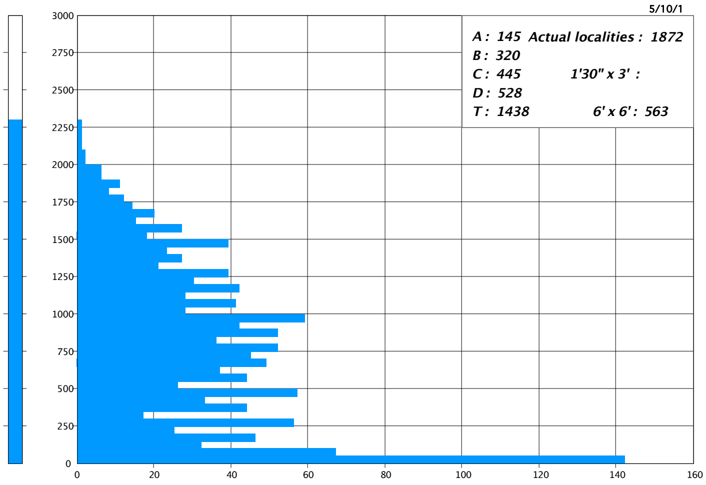


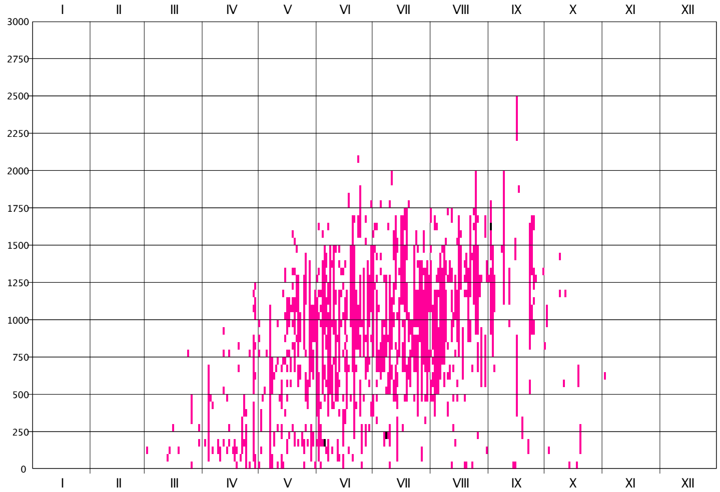


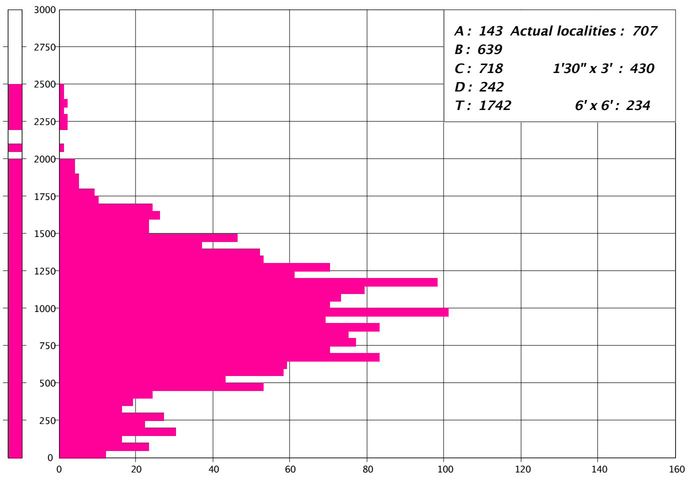
SATYRIDAE *Coenonympha thyrsis*

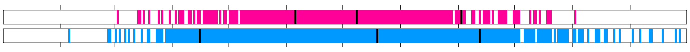




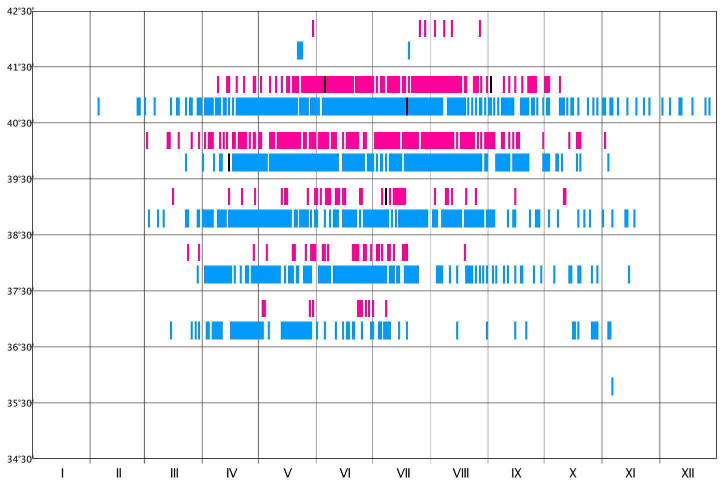


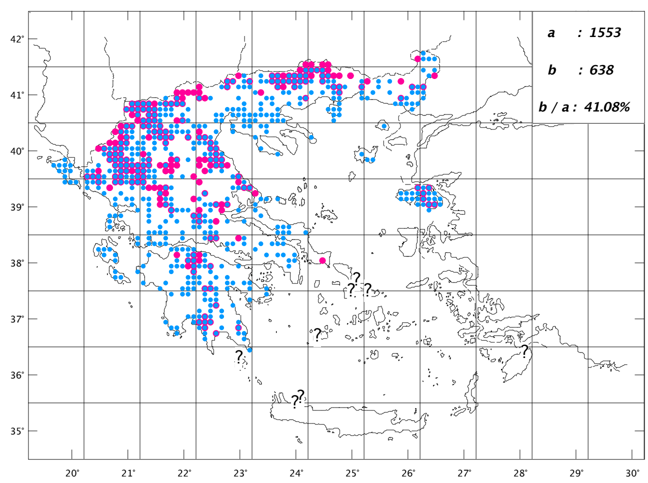


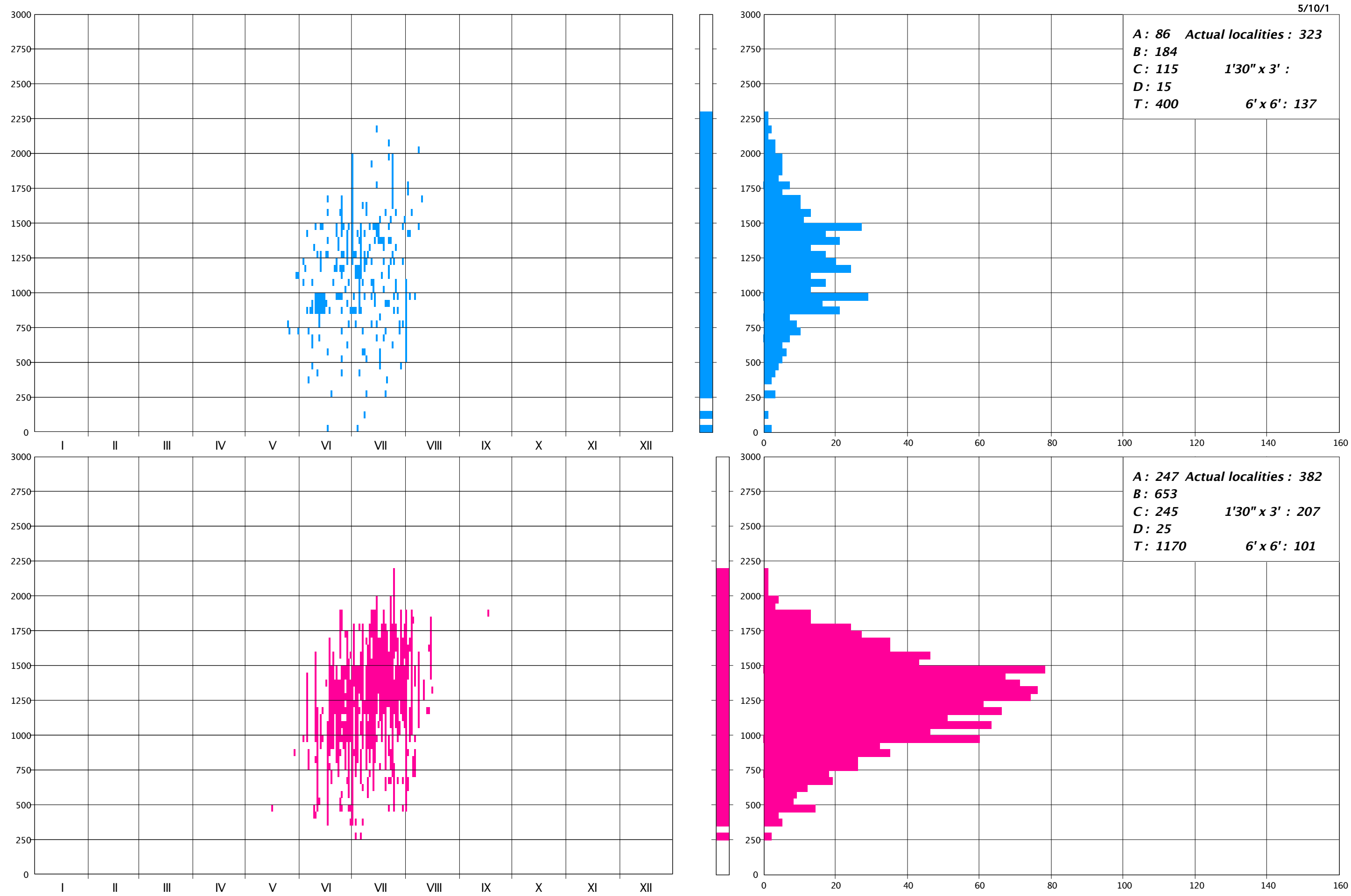


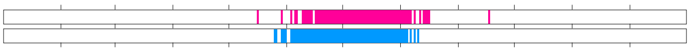


SATYRIDAE *Coenonympha pamphilus*

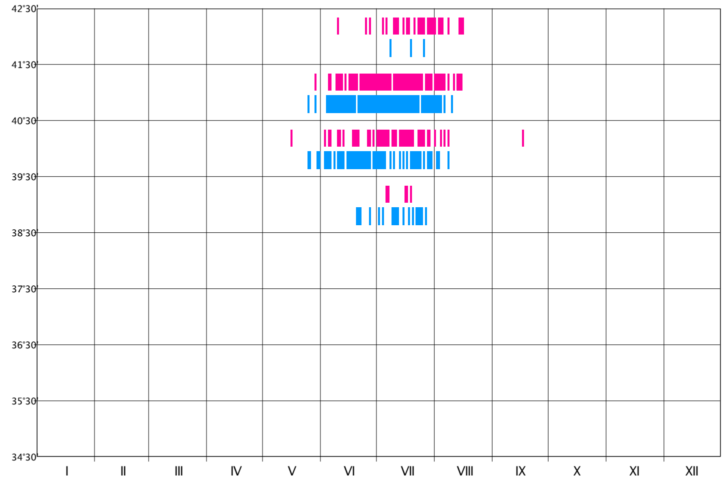


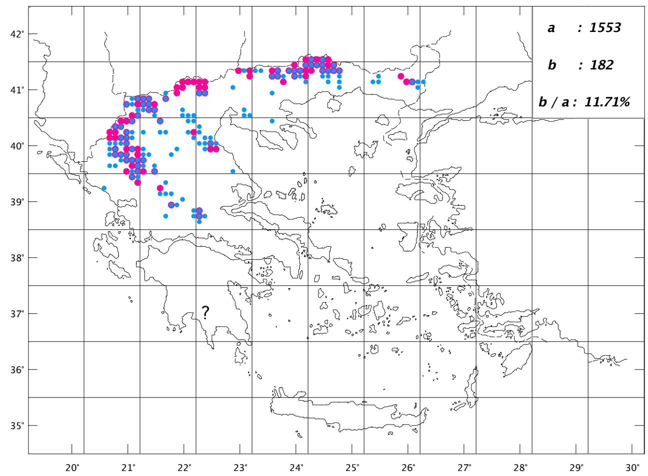




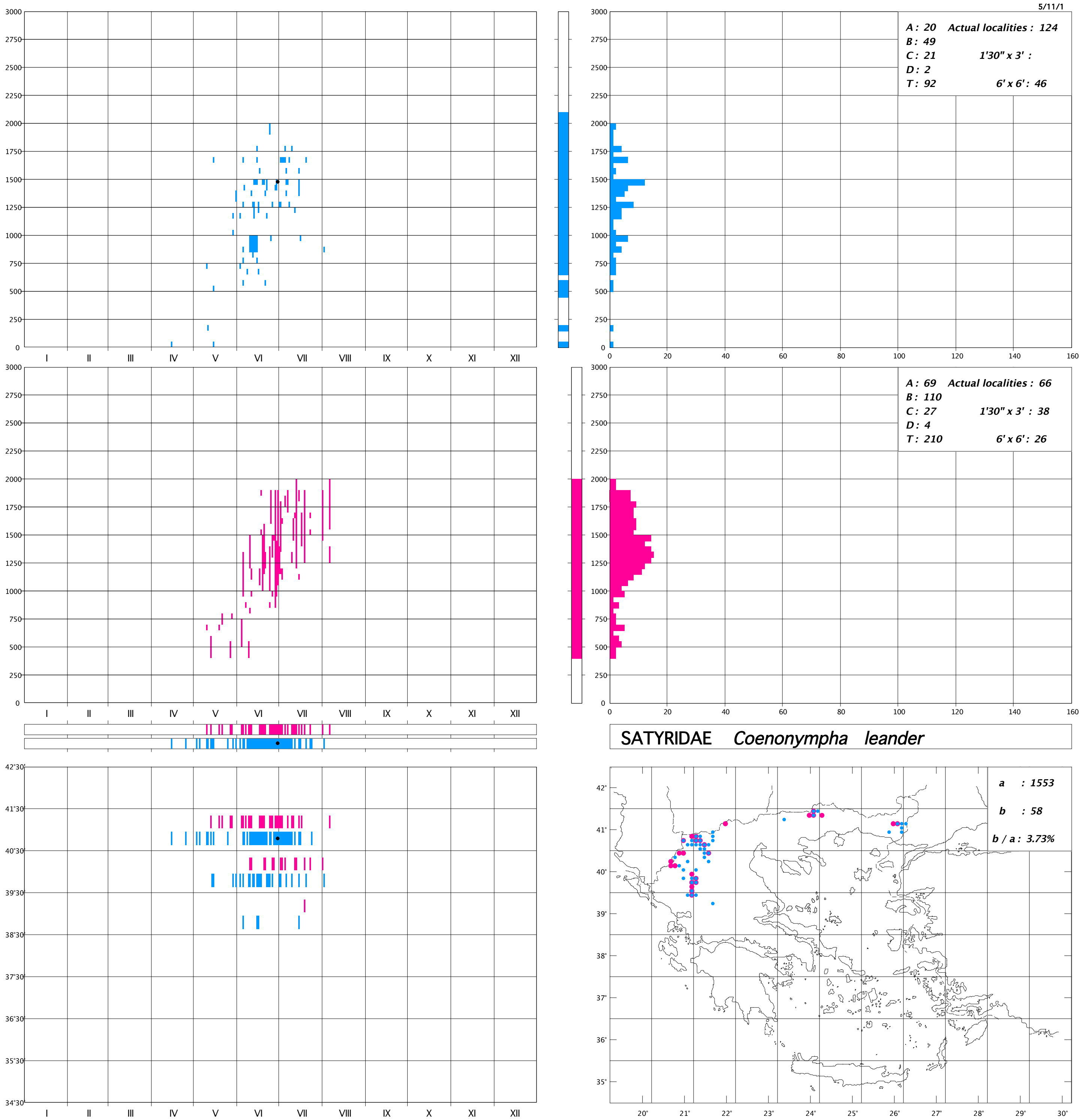


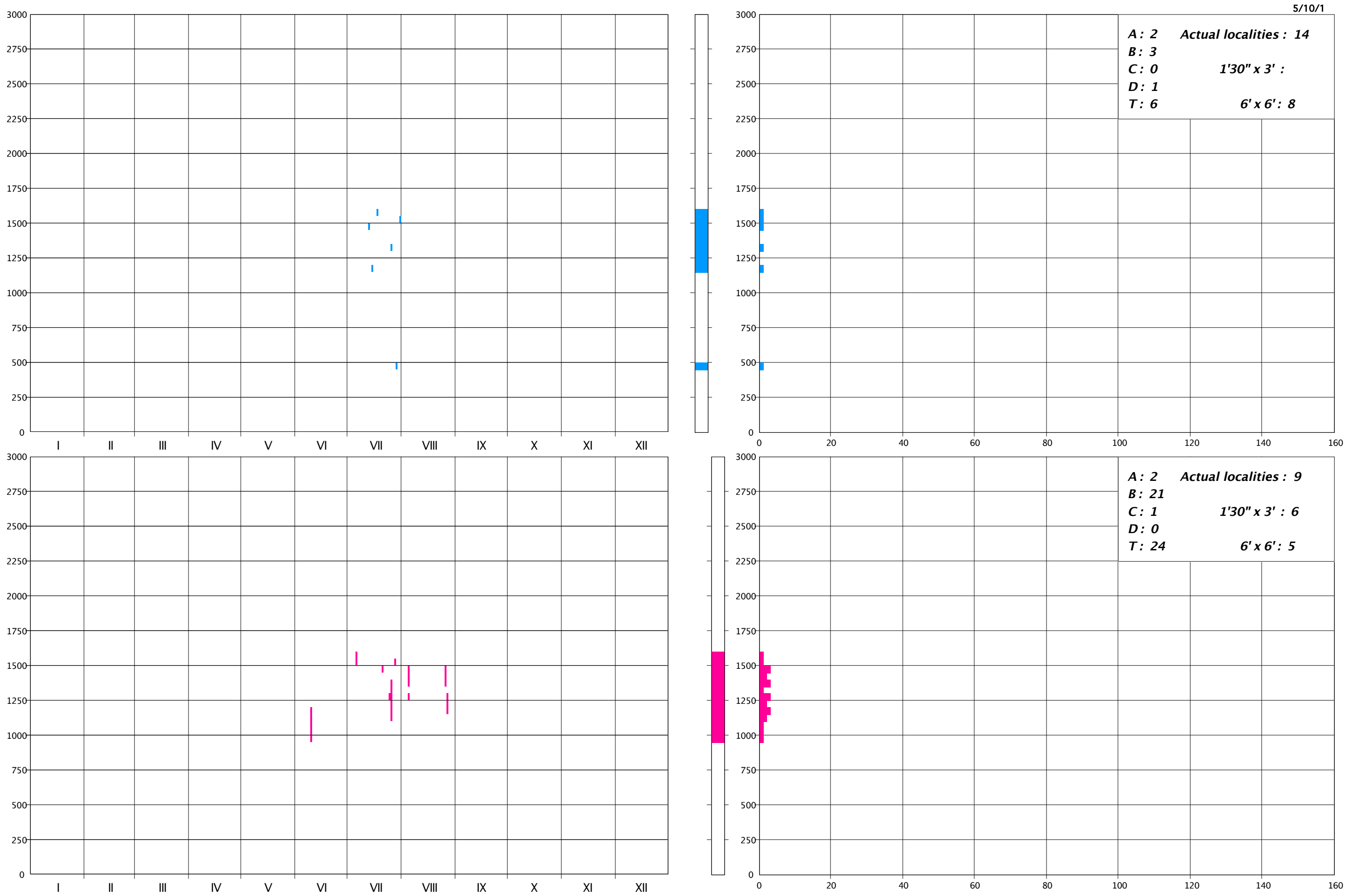
SATYRIDAE *Coenonympha arcania*



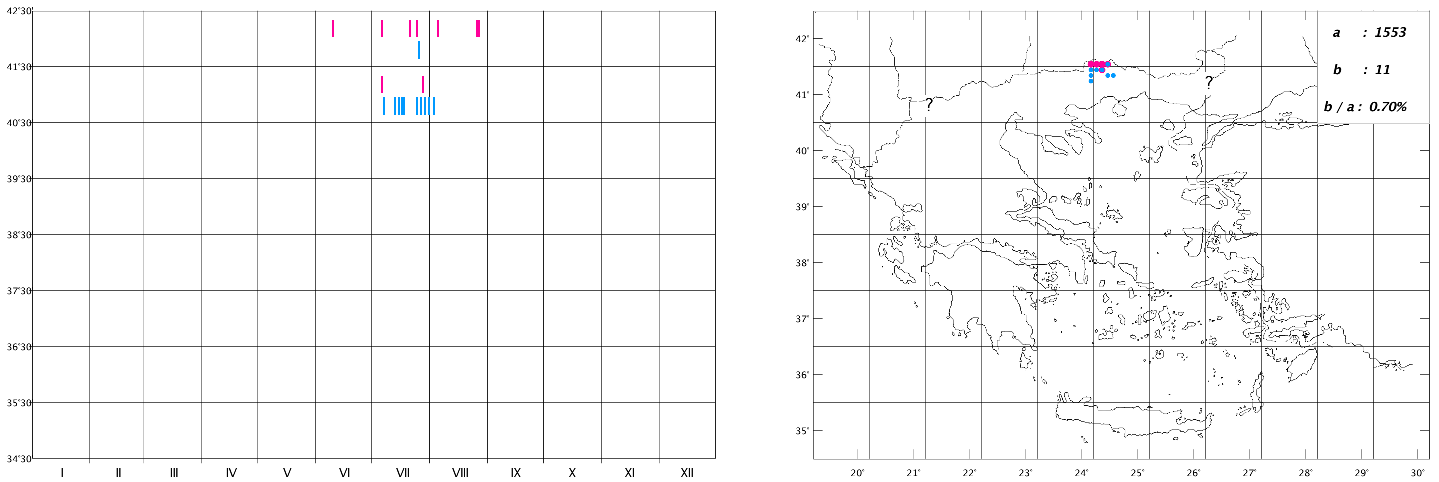


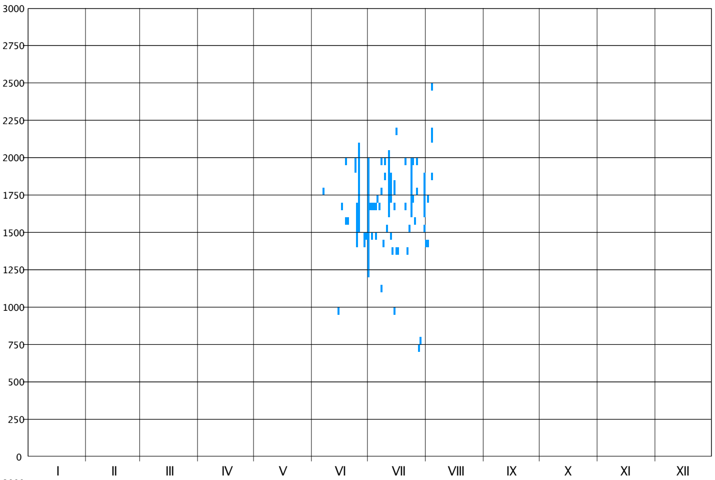
5/11/1

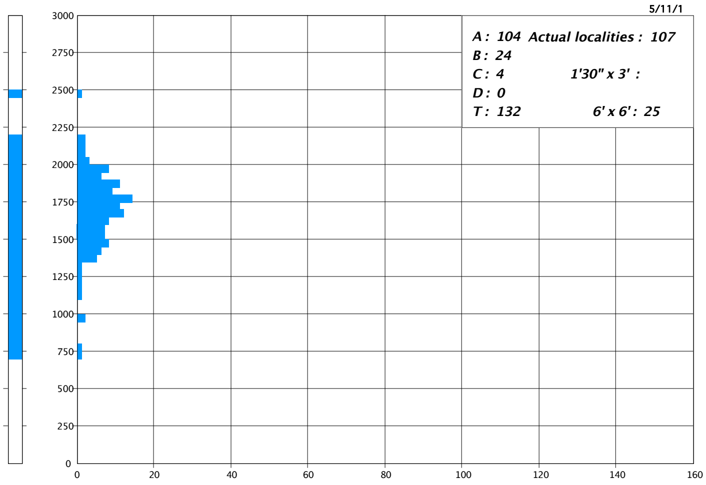

A : 20 Actual localities : 124
B : 49
C : 21 1'30" x 3' :
D : 2
T : 92 6' x 6' : 46
A : 69 Actual localities : 66
B : 110
C : 27 1'30" x 3' : 38
D : 4
T : 210 6' x 6' : 26
SATYRIDAE Coenonympha leander
a : 1553
b : 58
b / a : 3.73%
I II III IV V VI VII VIII IX X XI XII
42°30' 41°30' 40°30' 39°30' 38°30' 37°30' 36°30' 35°30' 34°30'
20° 21° 22° 23° 24° 25° 26° 27° 28° 29° 30°

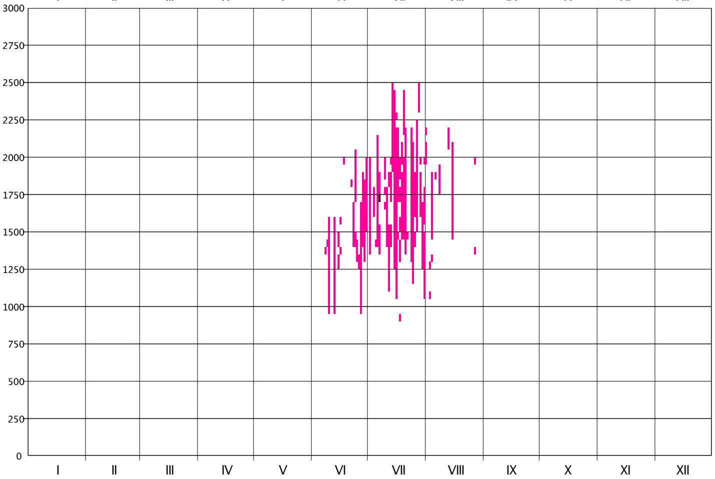


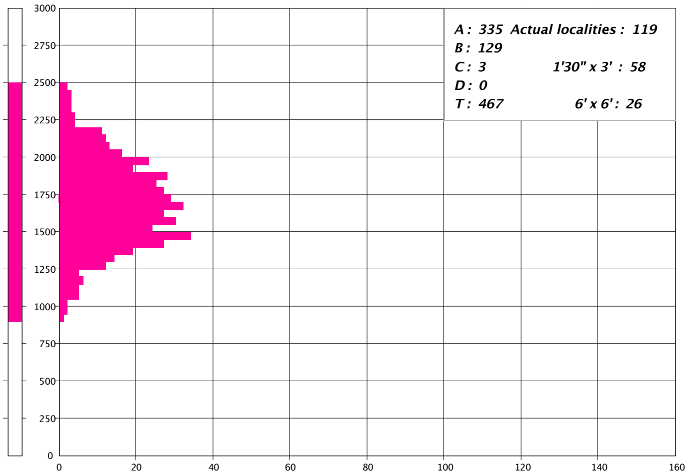
SATYRIDAE *Coenonympha glycerion*

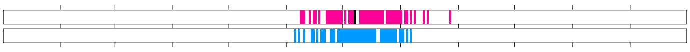




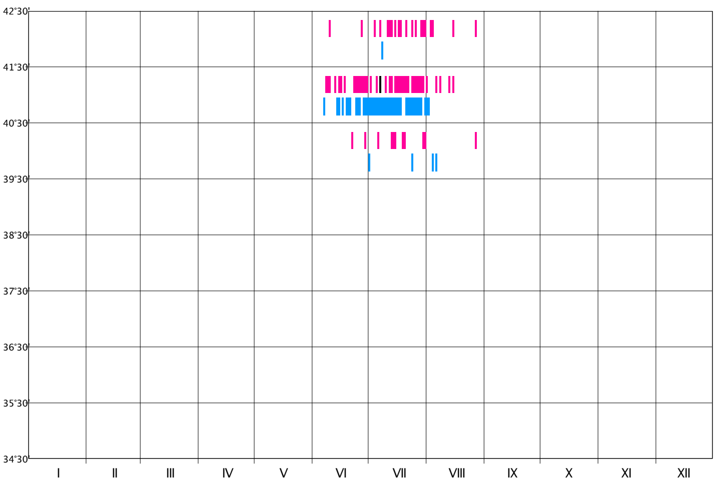


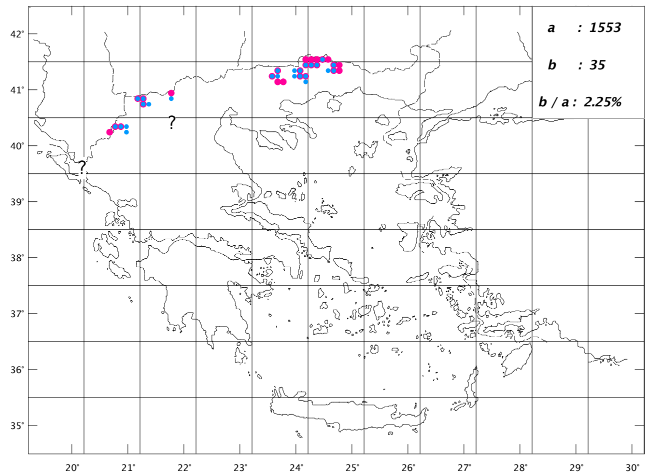


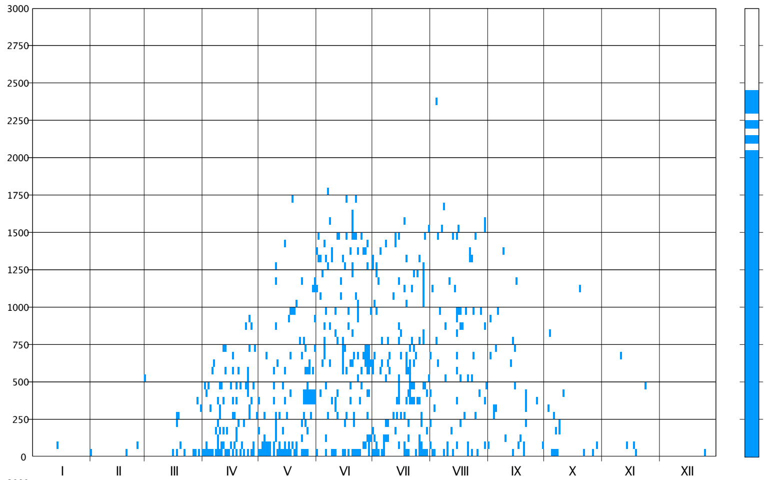


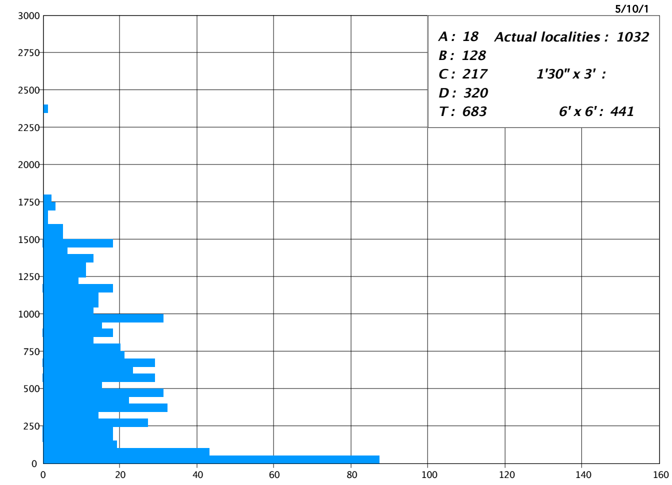


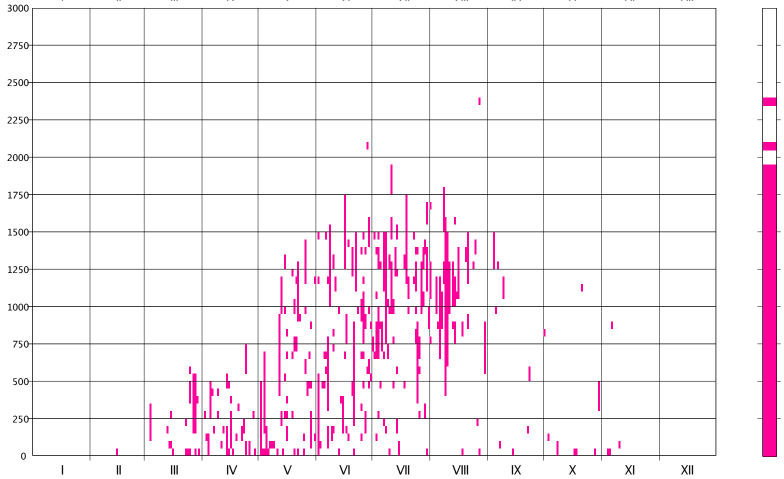
SATYRIDAE *Coenonympha rhodopensis*

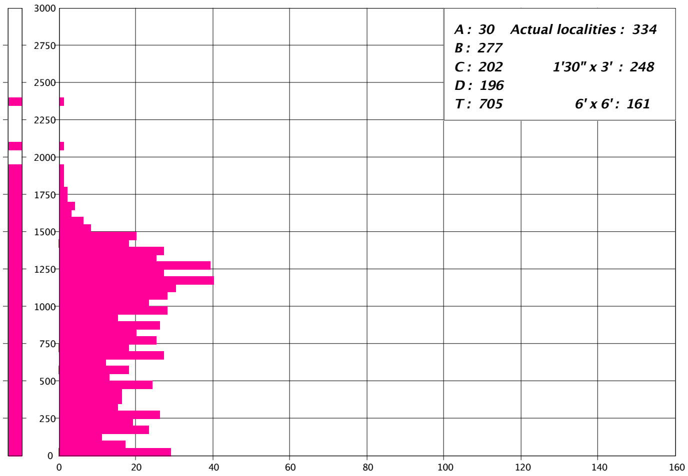




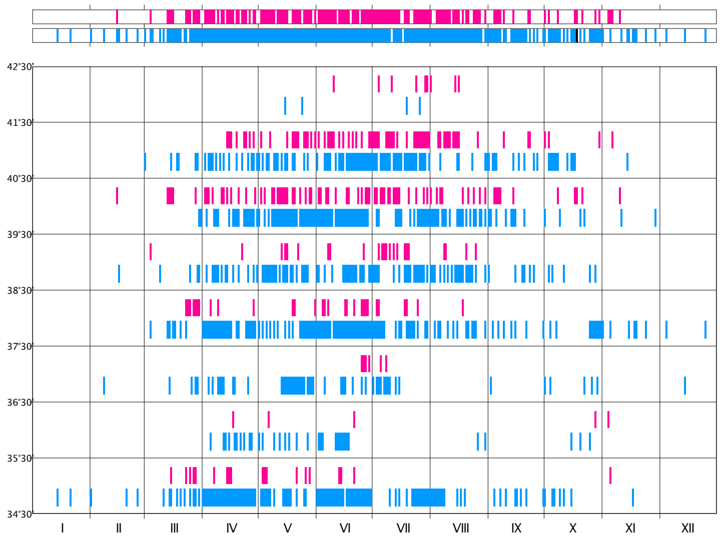


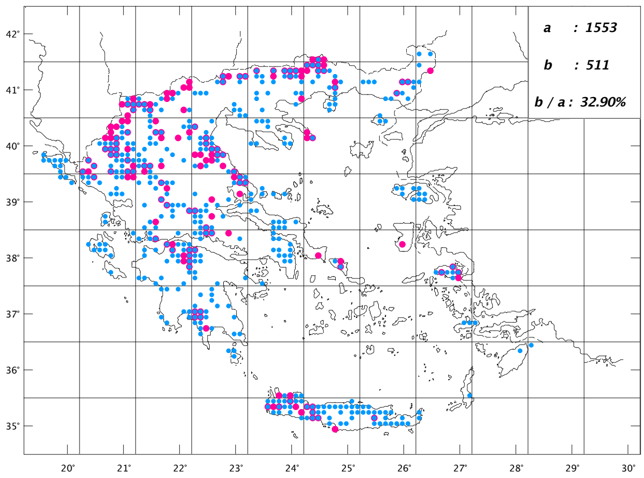


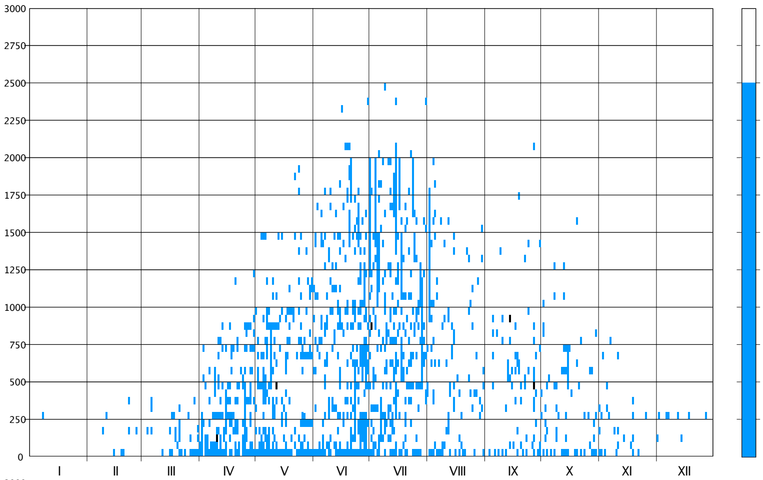


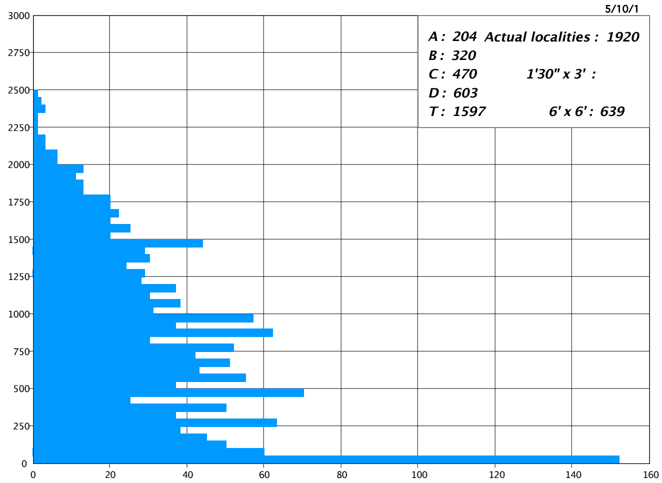


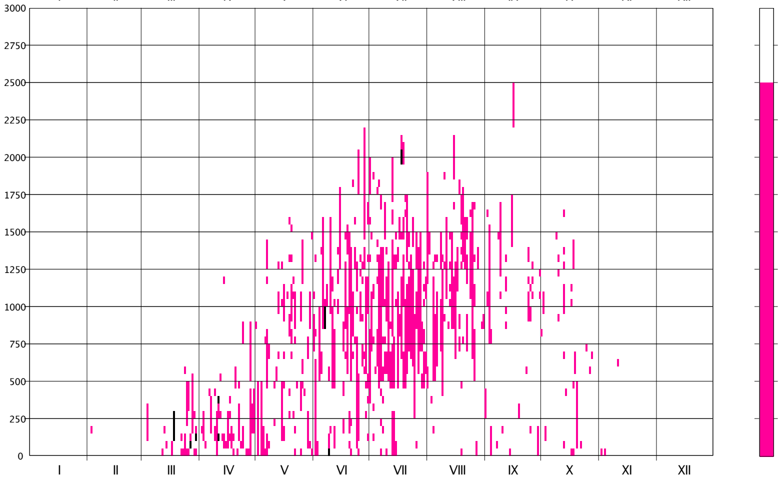
SATYRIDAE *Pararge aegeria*

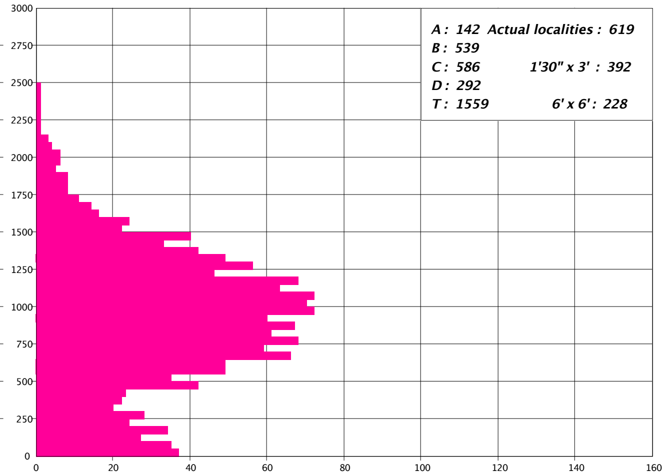




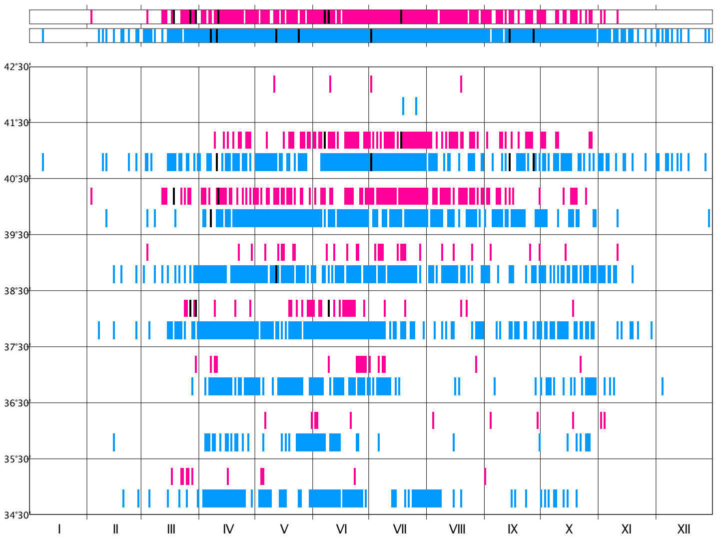


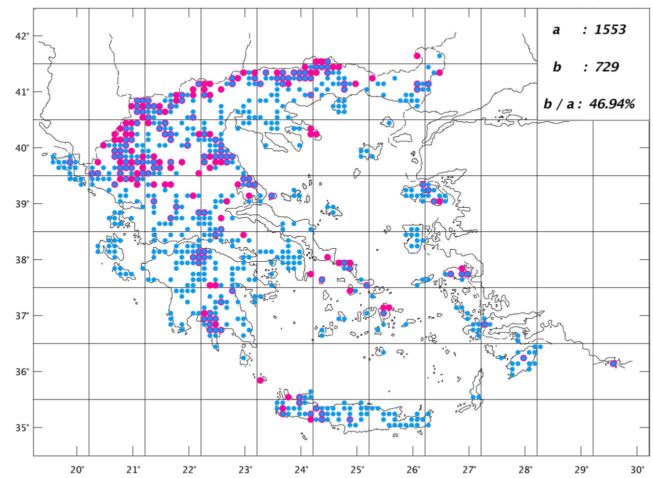


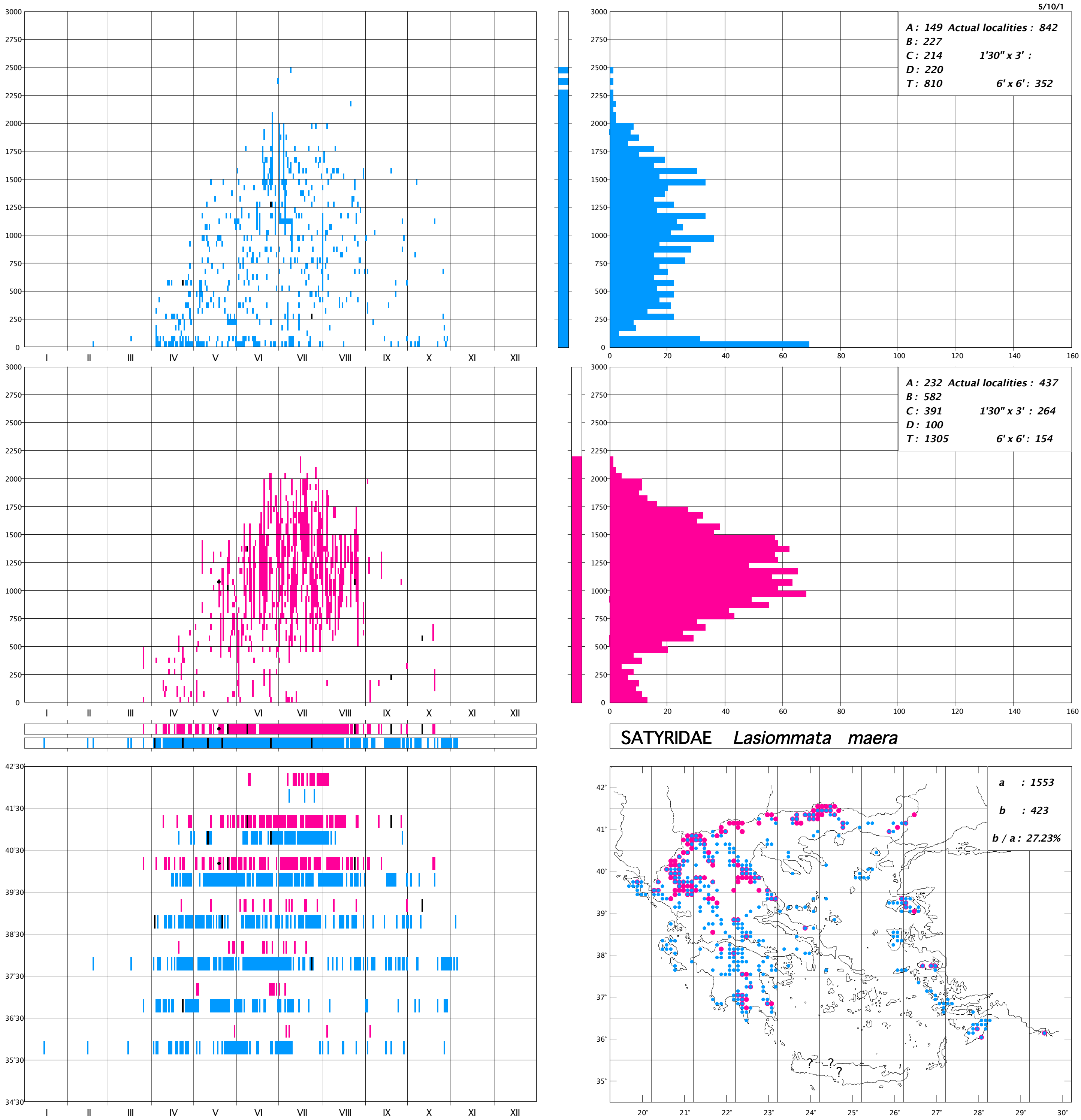




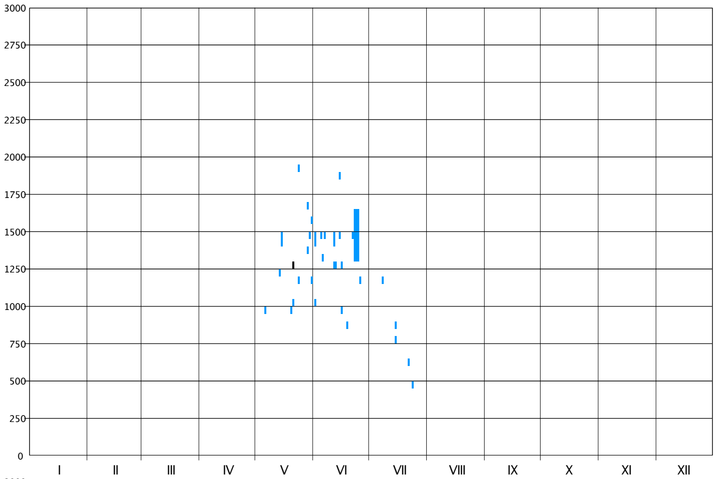
SATYRIDAE *Lasiommata megera*

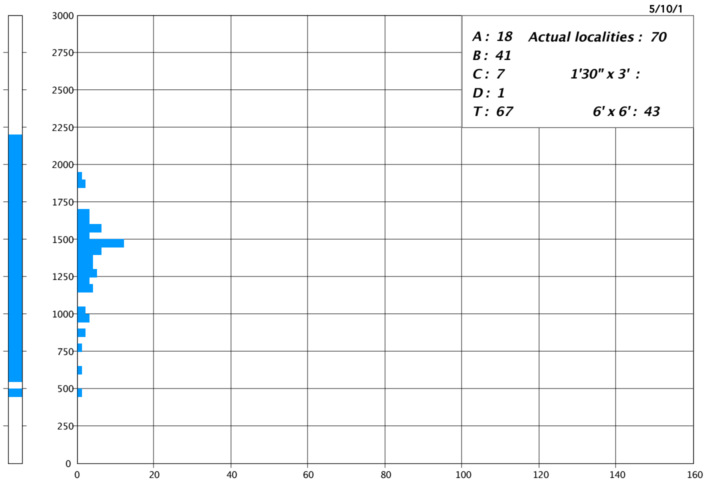


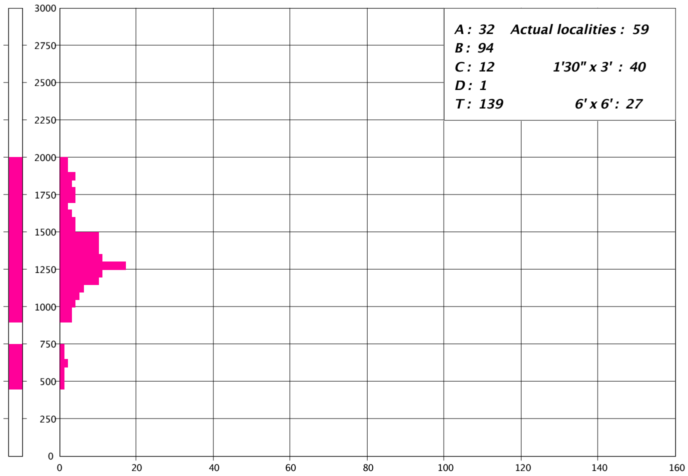


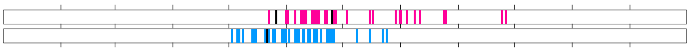

A : 149 Actual localities : 842
B : 227
C : 214 1'30" x 3' :
D : 220
T : 810 6' x 6' : 352
A : 232 Actual localities : 437
B : 582
C : 391 1'30" x 3' : 264
D : 100
T : 1305 6' x 6' : 154
SATYRIDAE Lasiommata maera
a : 1553
b : 423
b / a : 27.23%

5/10/1

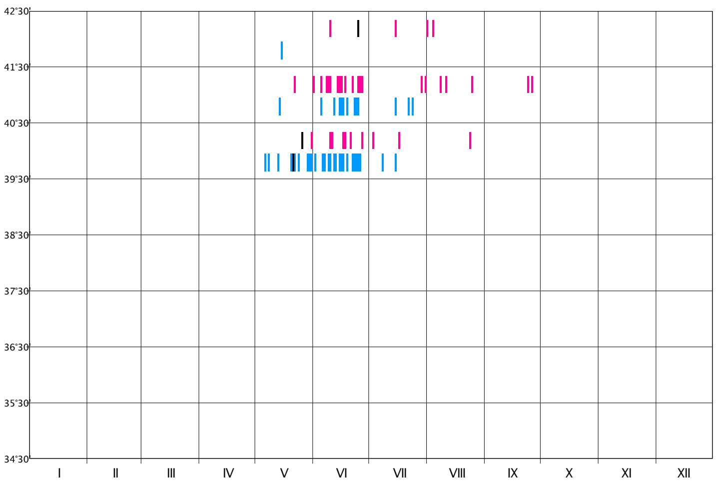


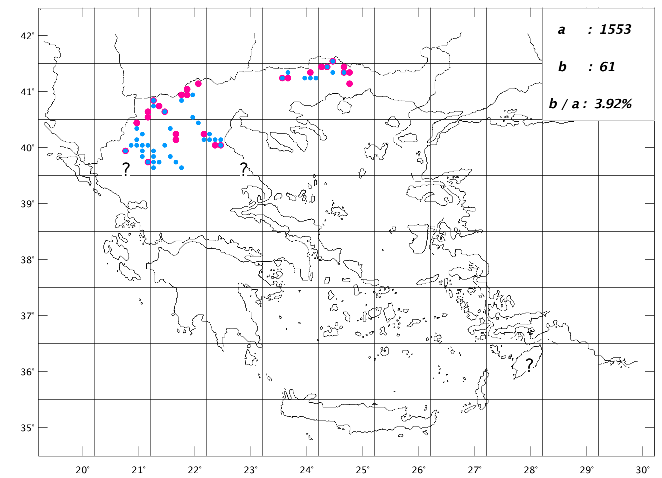


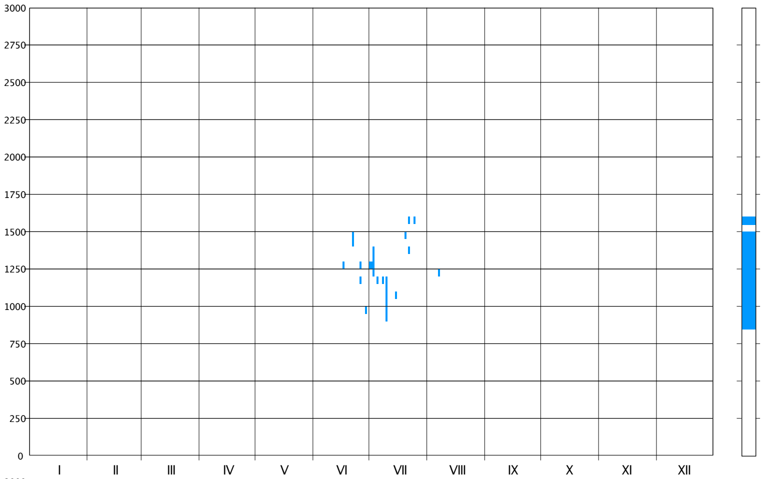


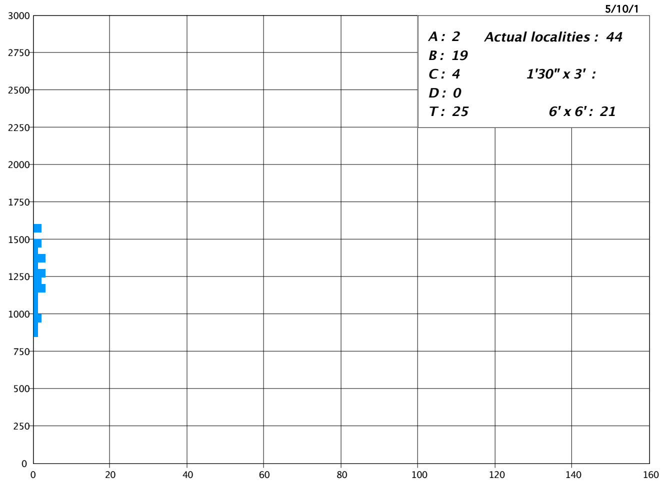


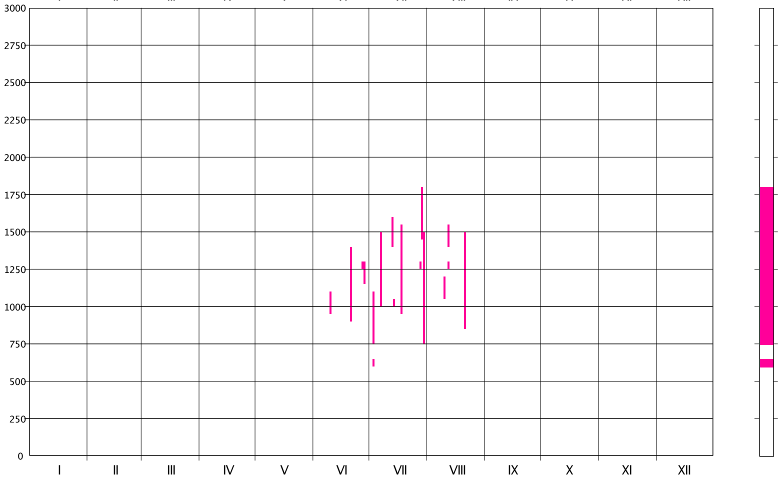
SATYRIDAE *Lasiommata petropolitana*

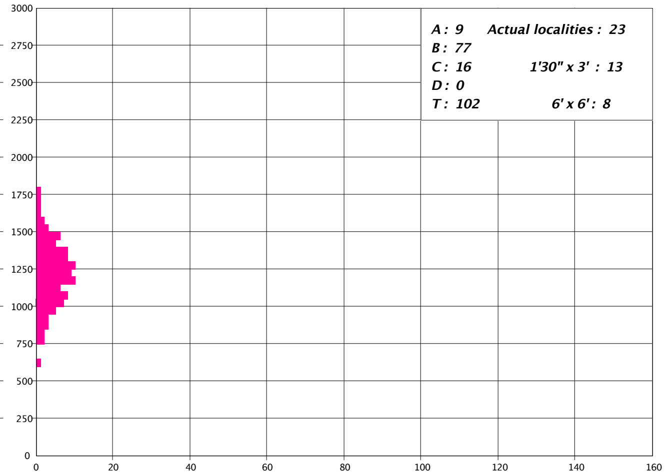




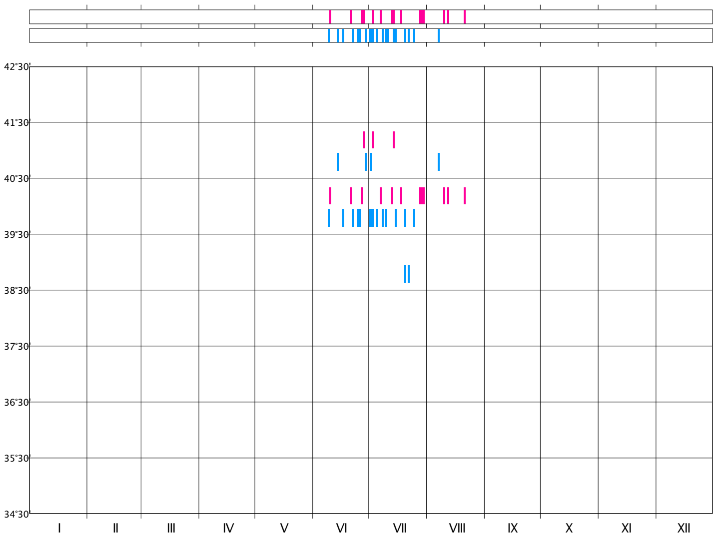


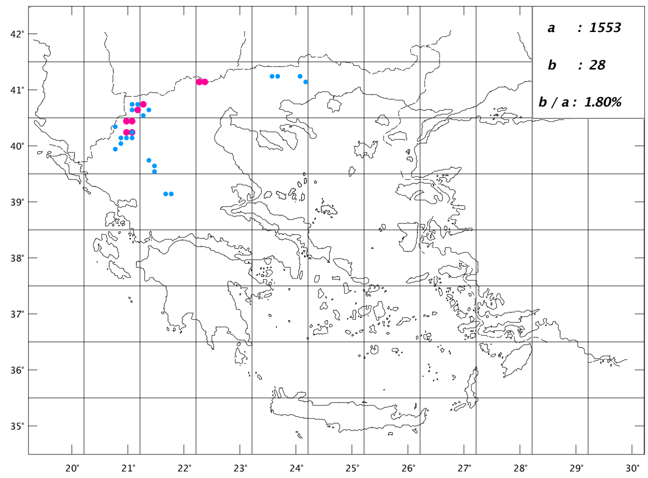


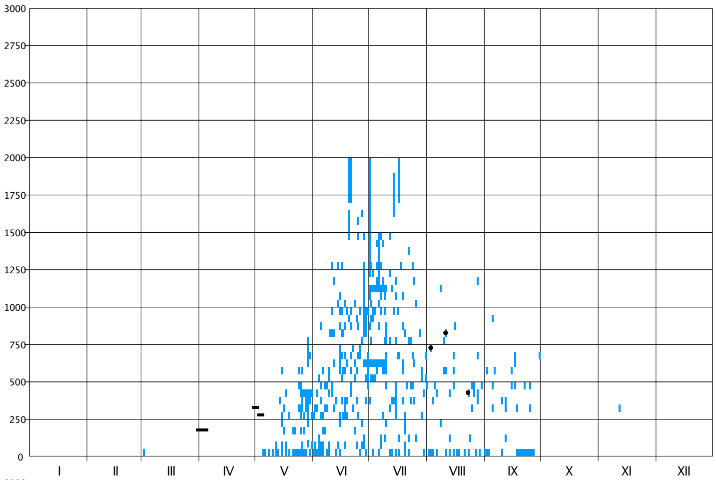


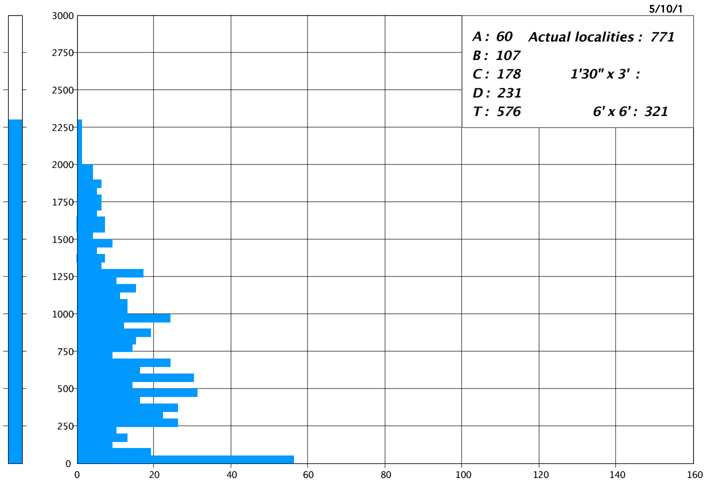


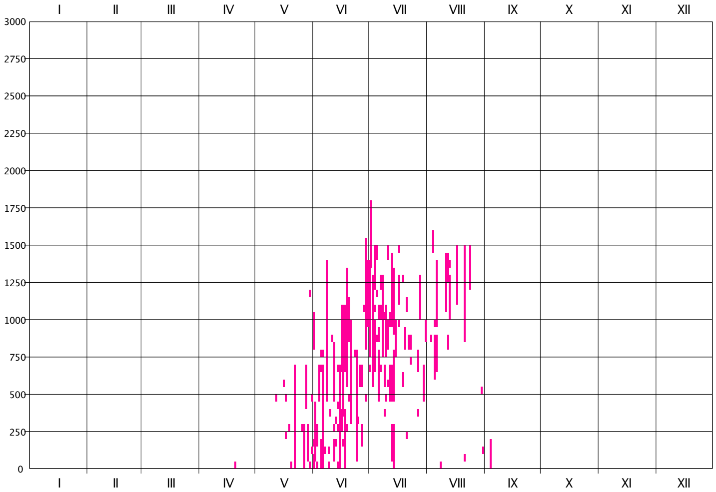
SATYRIDAE *Esperarge climene*

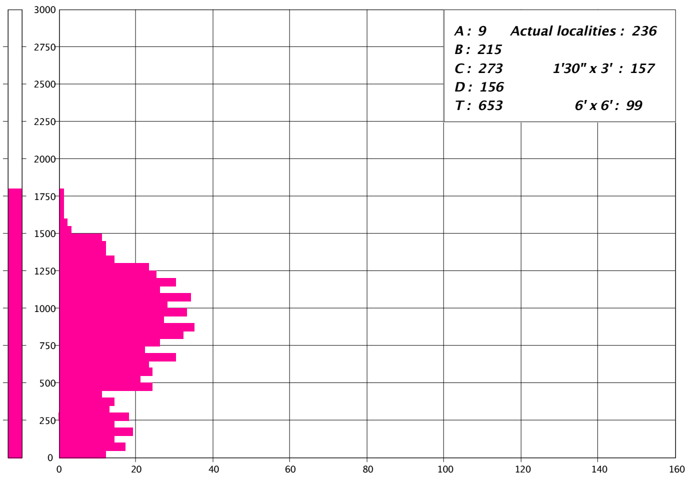


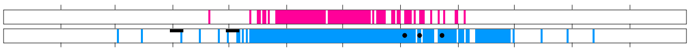




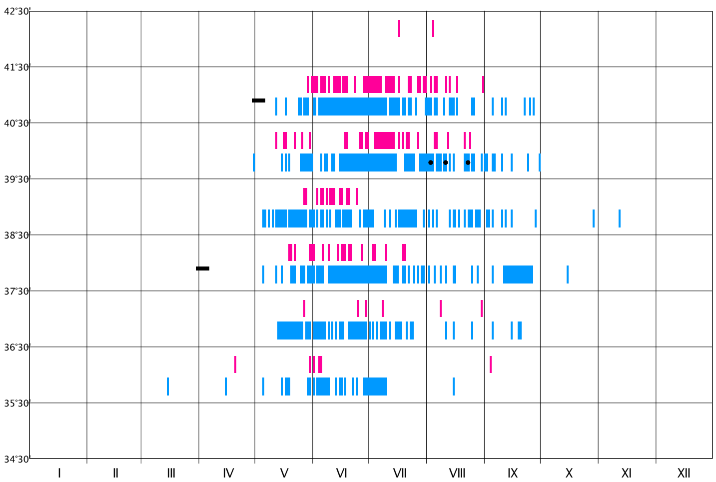


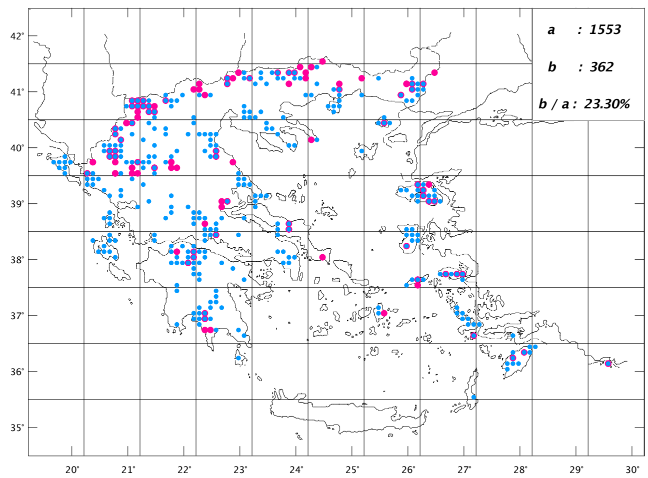


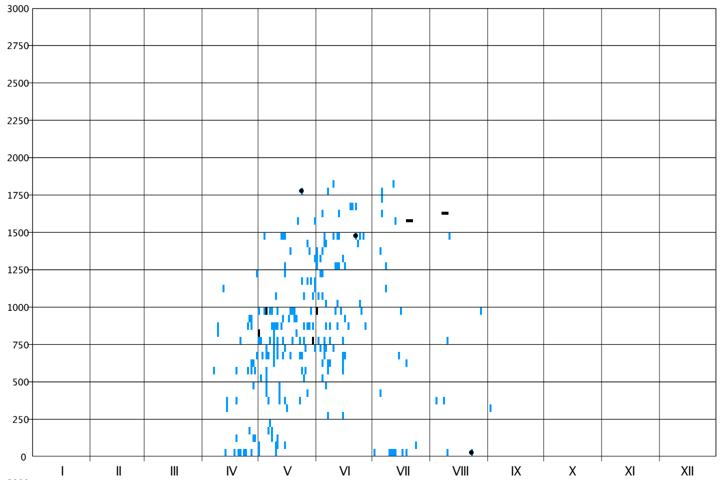


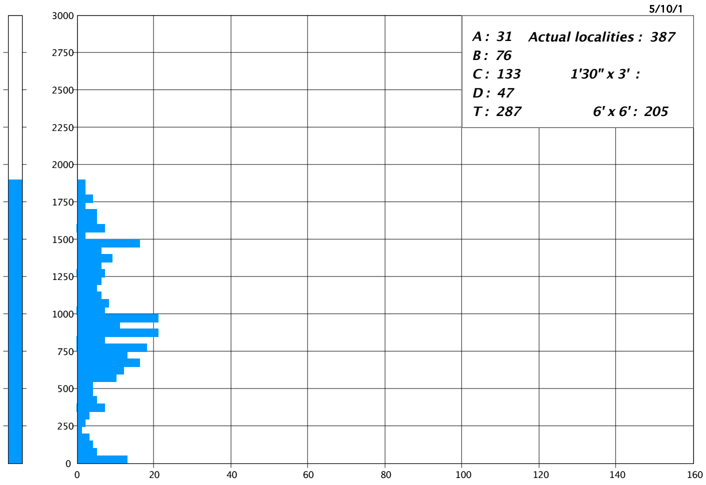


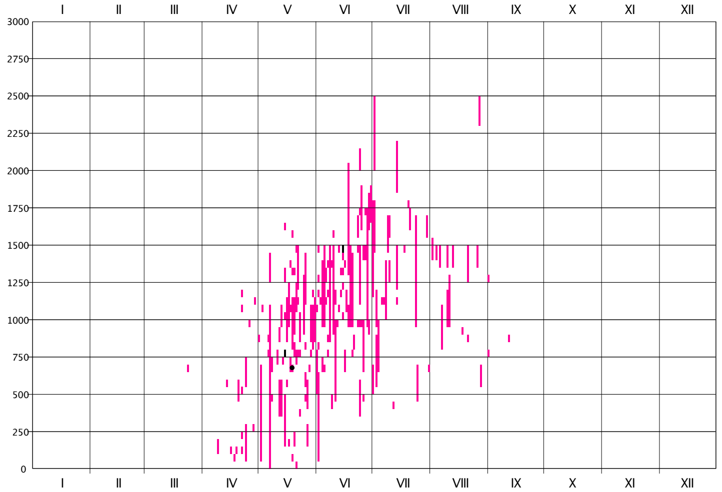
SATYRIDAE *Kirinia roxelana*

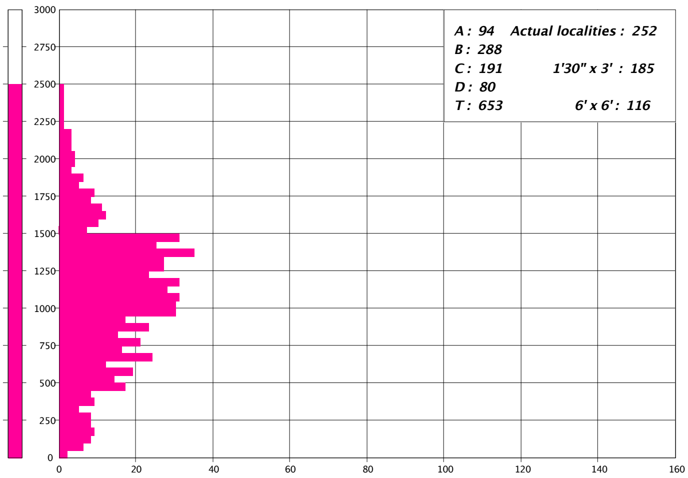


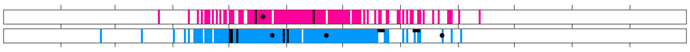




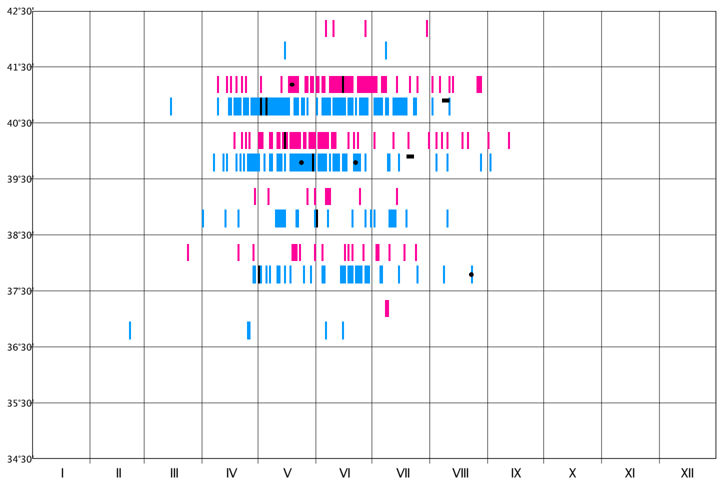


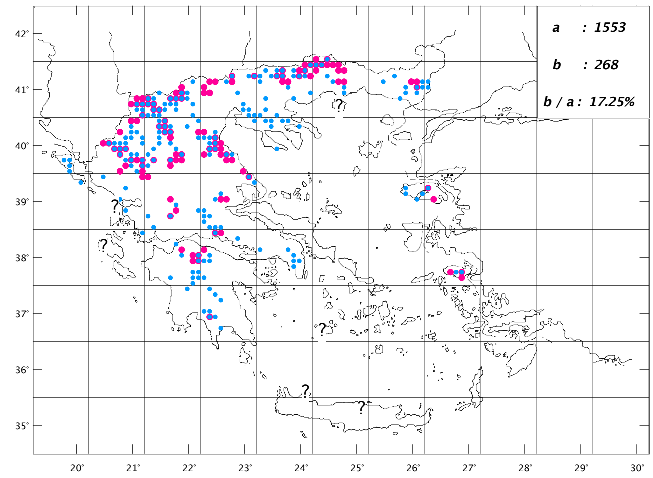


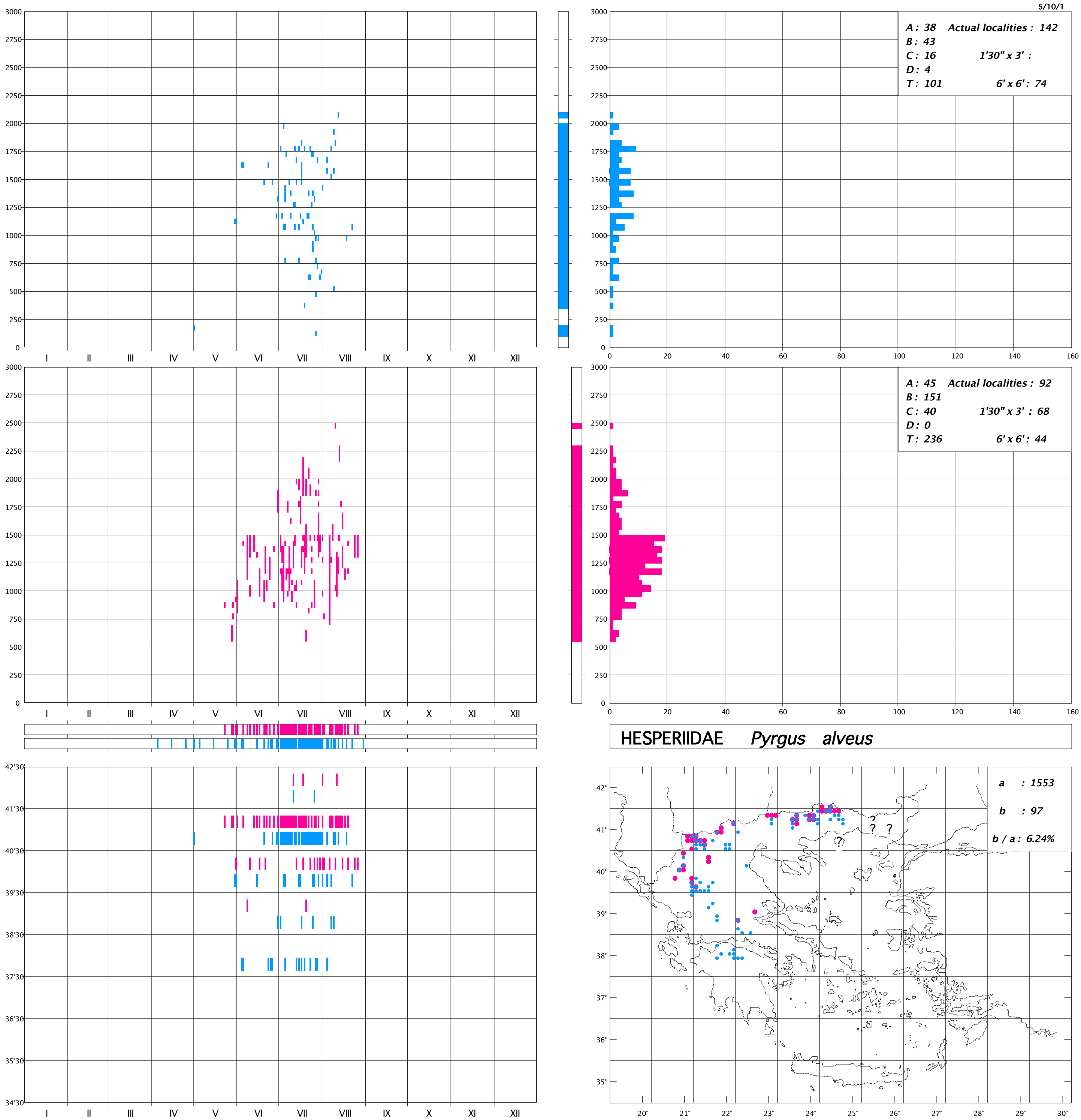




HESPERIIDAE *Pyrgus malvae*



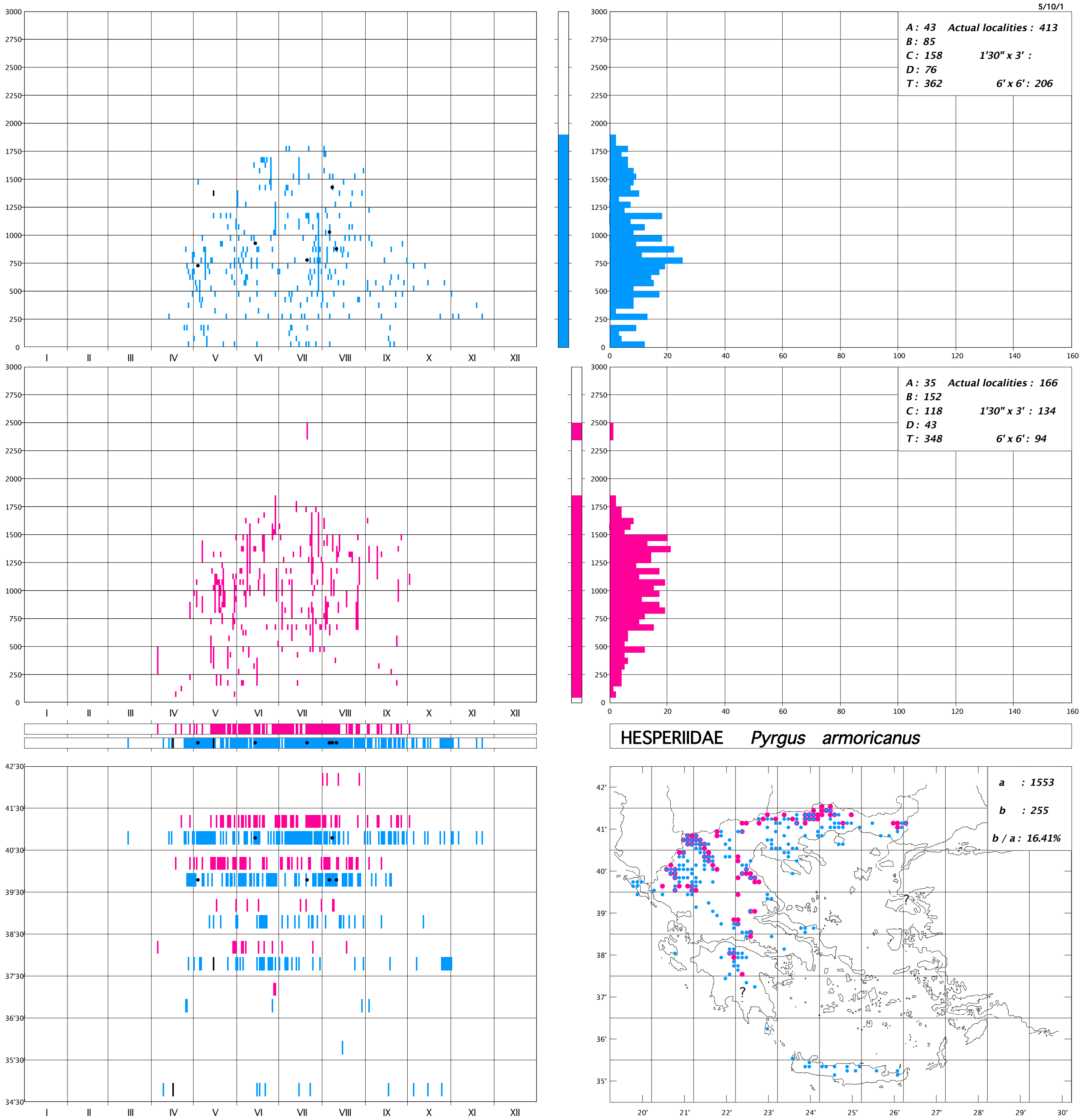




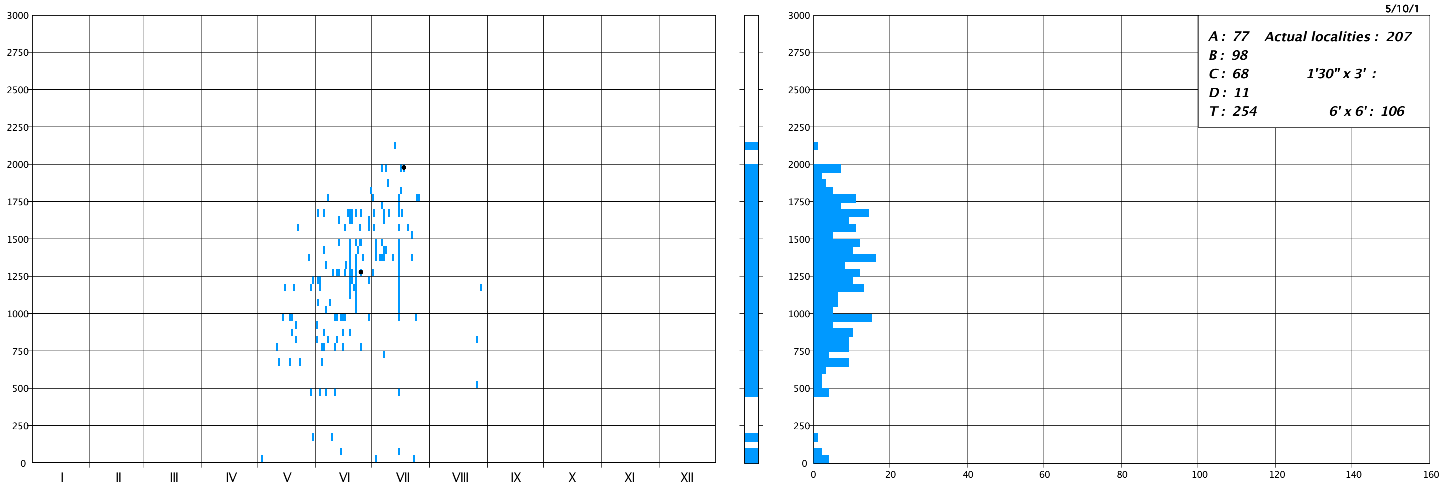
Αμφίβολη αναγνώριση / Identification uncertain

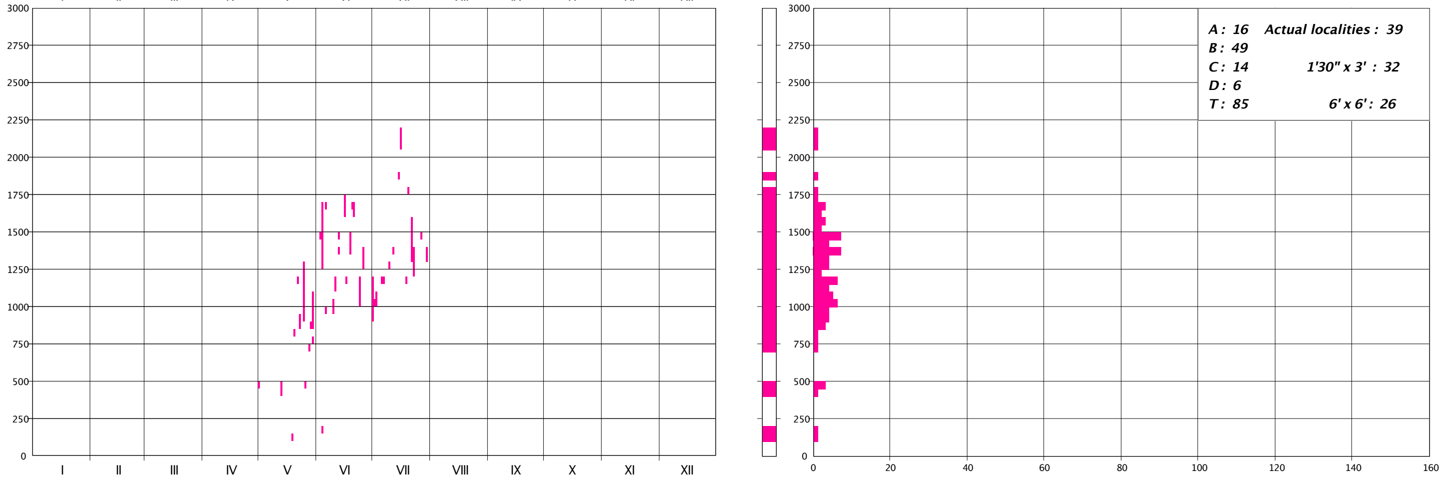
Two morphs of *Pyrgus alveus* occur in Greece (see in Coutsis J. G. & De Prins W.: The Pyrgus alveus -complex in Greece (Lepidoptera: Hesperiidae).Phegea 42(3): 50–54)

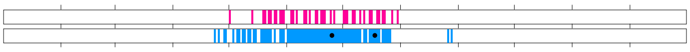
Δύο μορφές του *Pyrgus alveus* υπάρχουν στην Ελλάδα (δες στο Coutsis J. G. & De Prins W.: The Pyrgus alveus -complex in Greece (Lepidoptera: Hesperiidae).Phegea 42(3): 50–54)



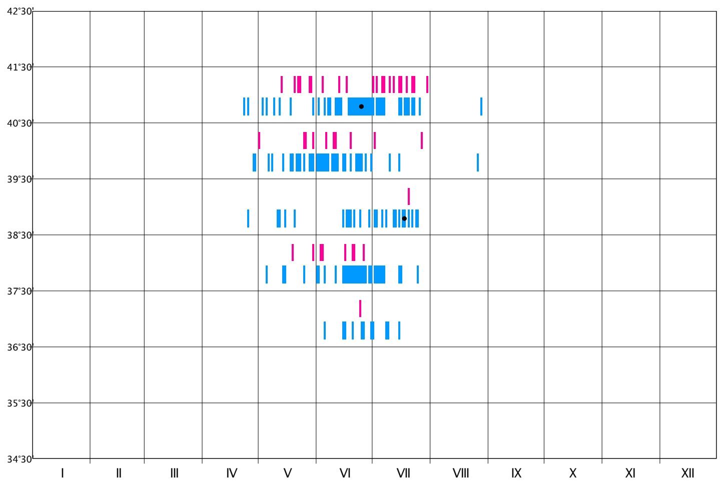
Αμφίβολη αναγνώριση / Identification uncertain

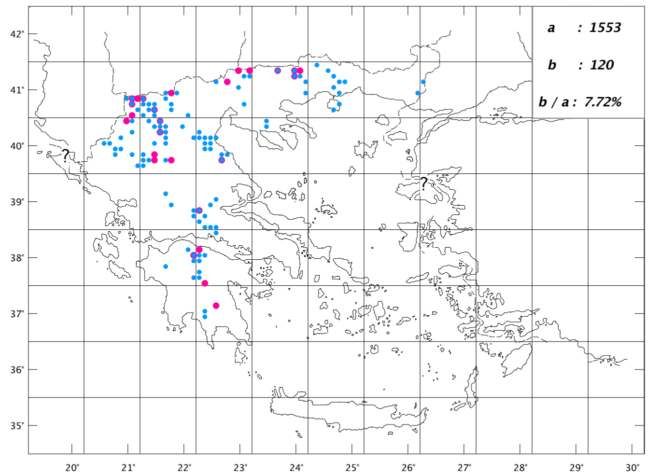


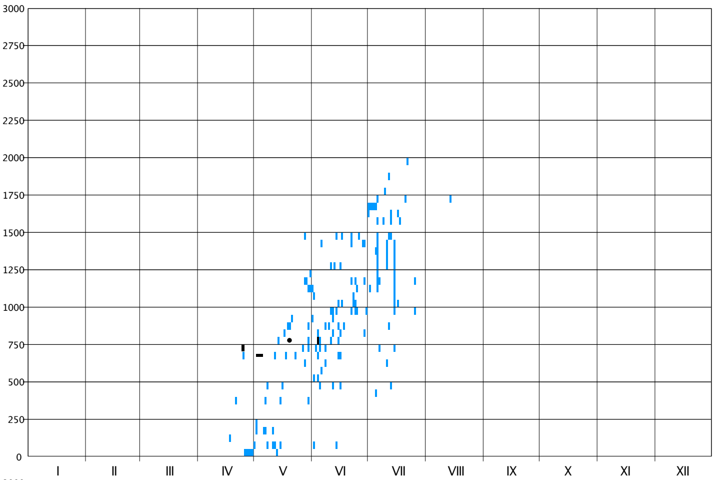


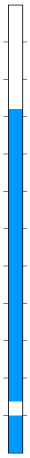


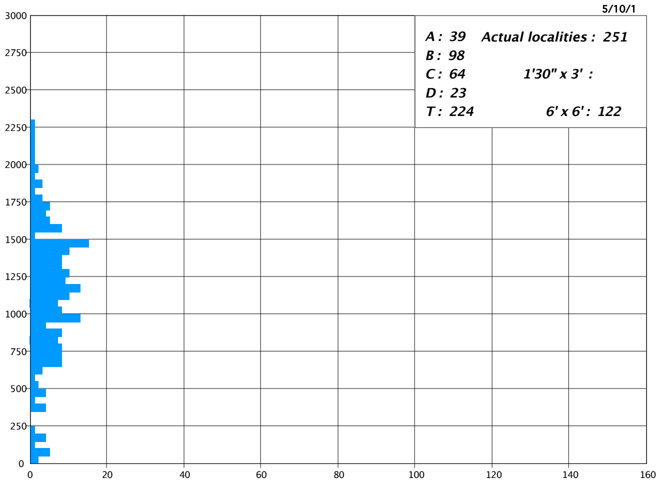
HESPERIIDAE *Pyrgus serratulae*

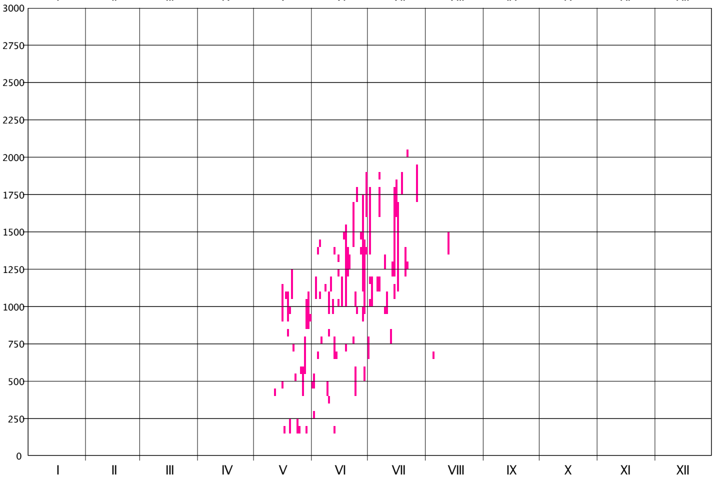


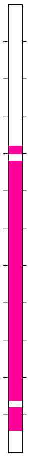


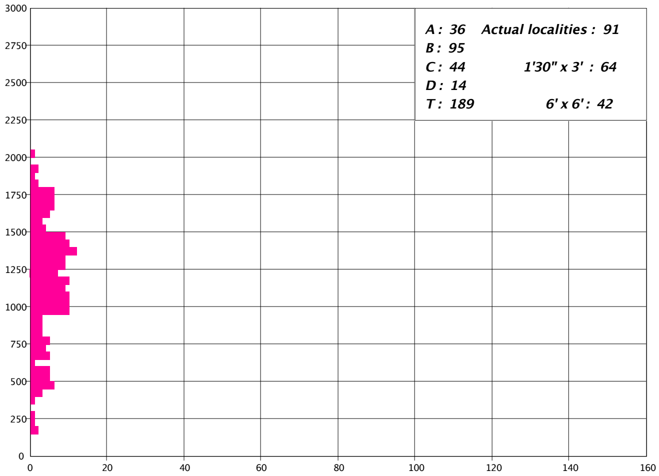


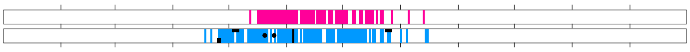




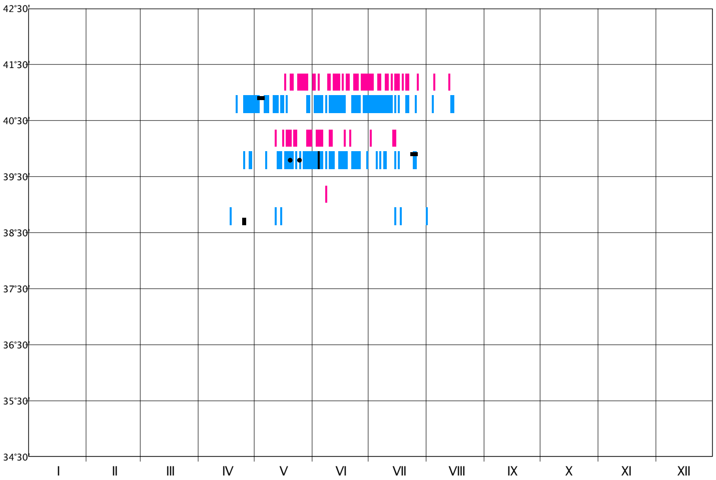


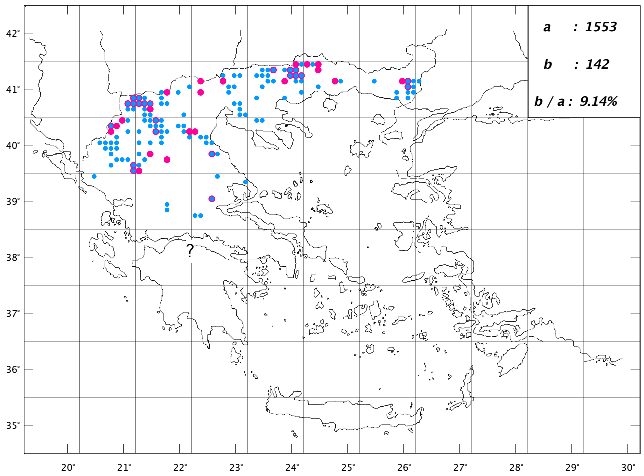


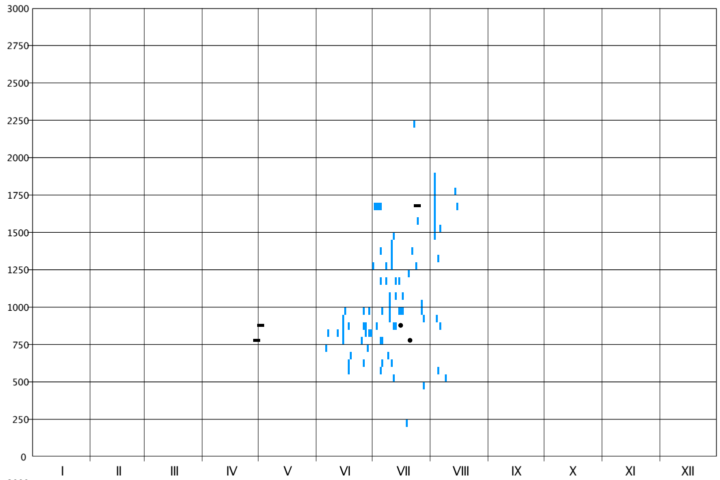


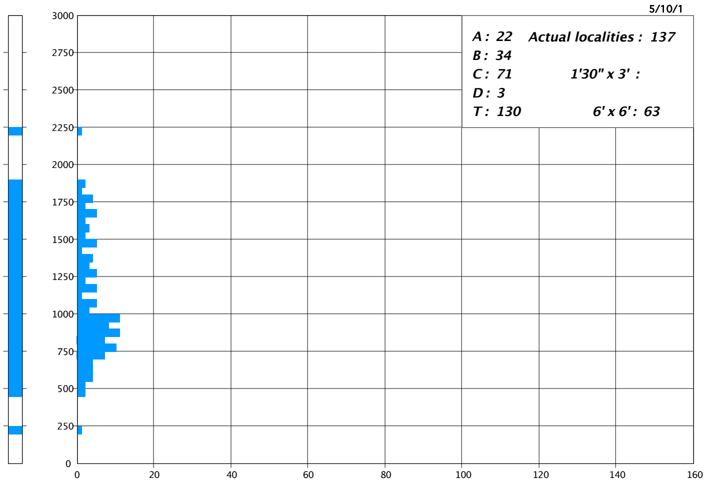


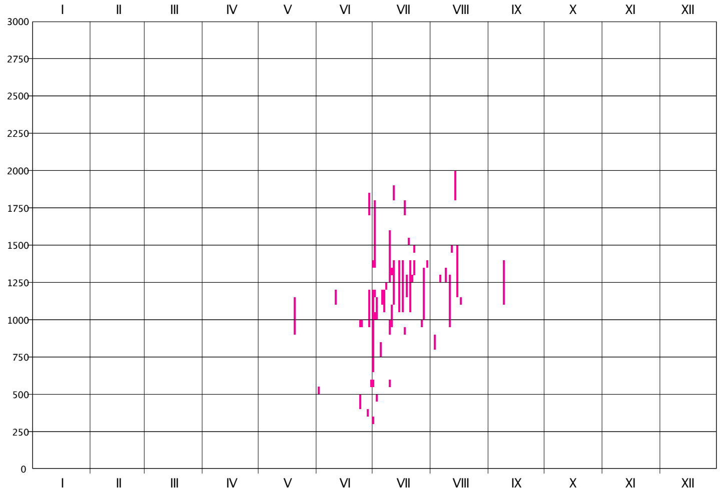
HESPERIIDAE *Pyrgus sidae*

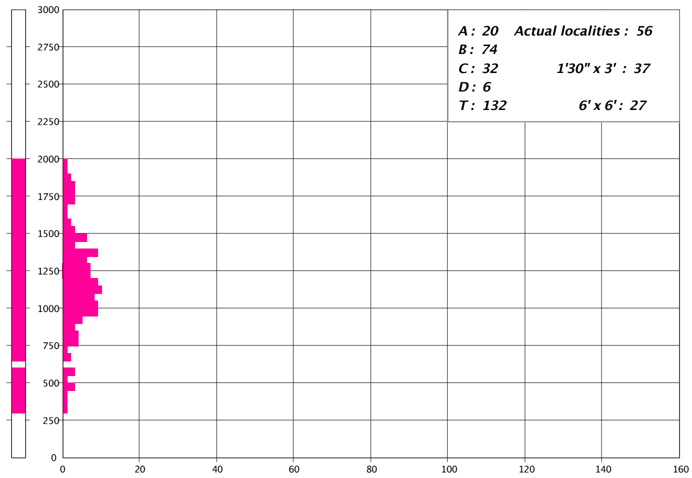


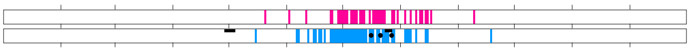




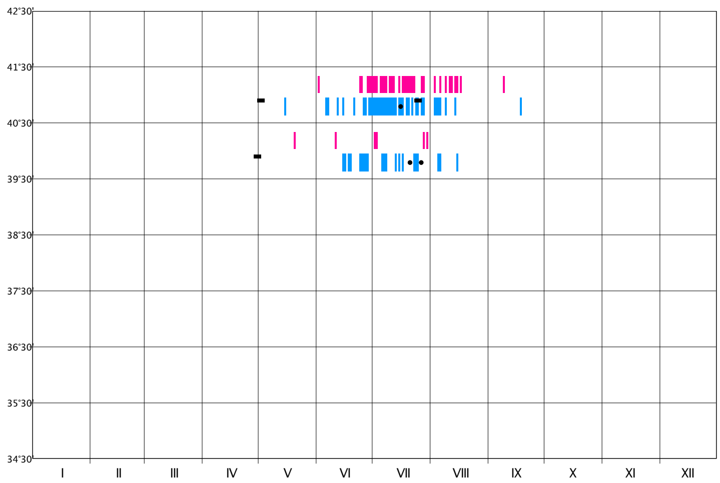


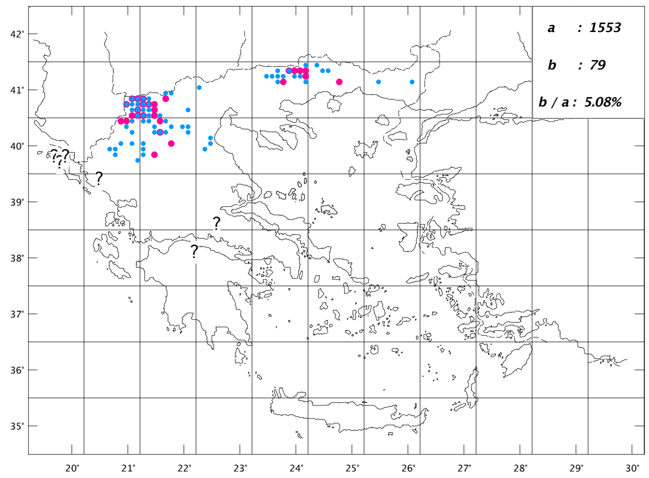


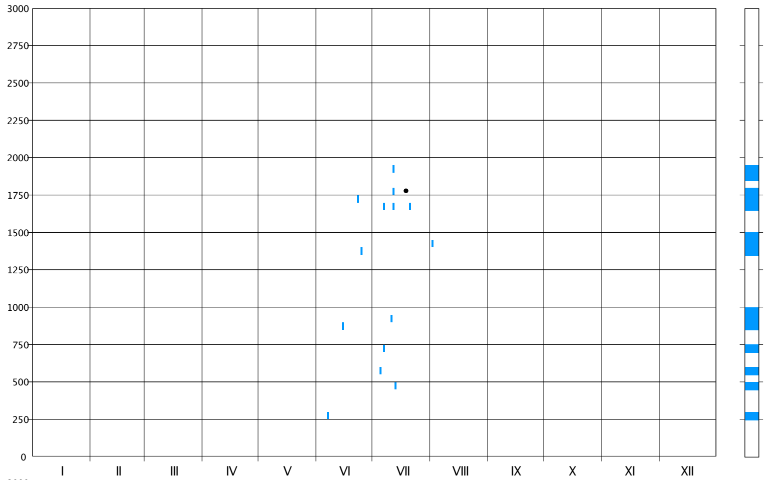


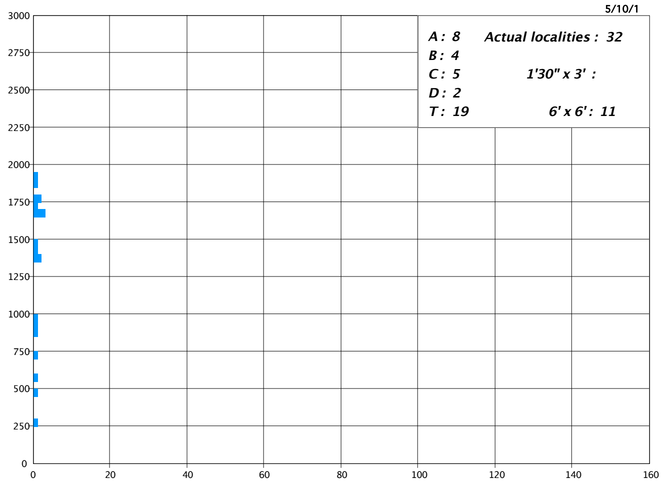


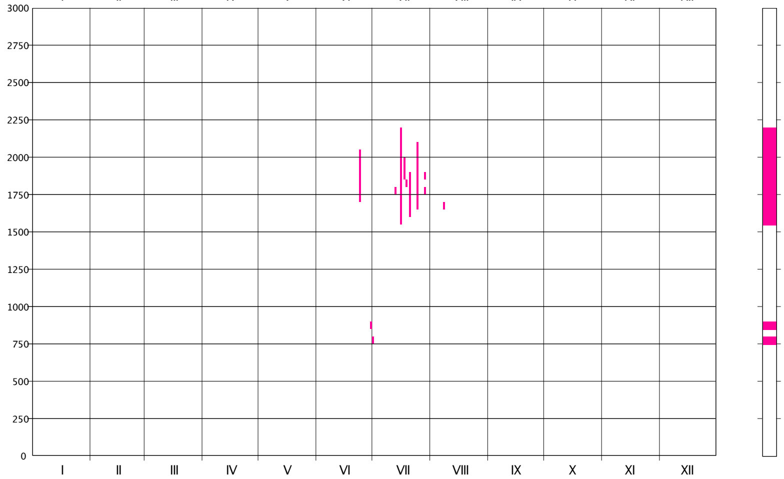
HESPERIIDAE *Pyrgus cinarae*

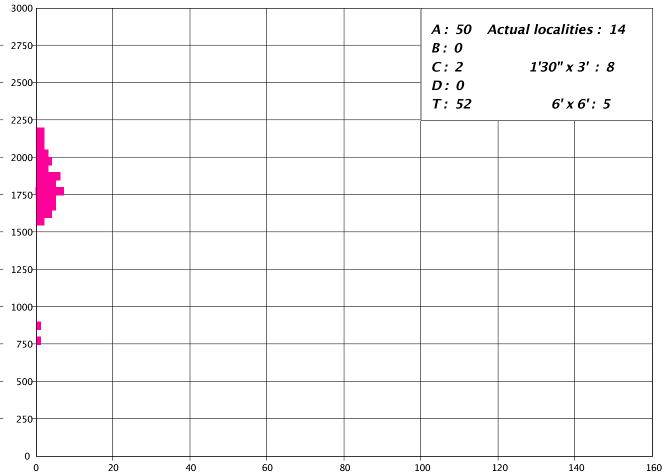




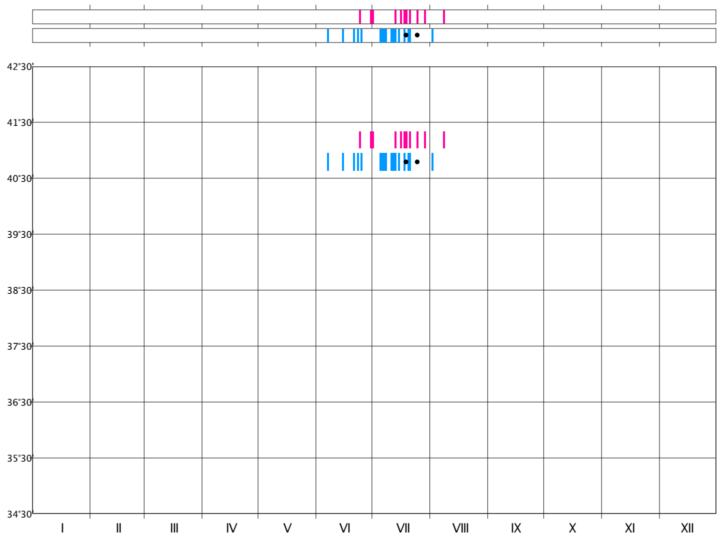


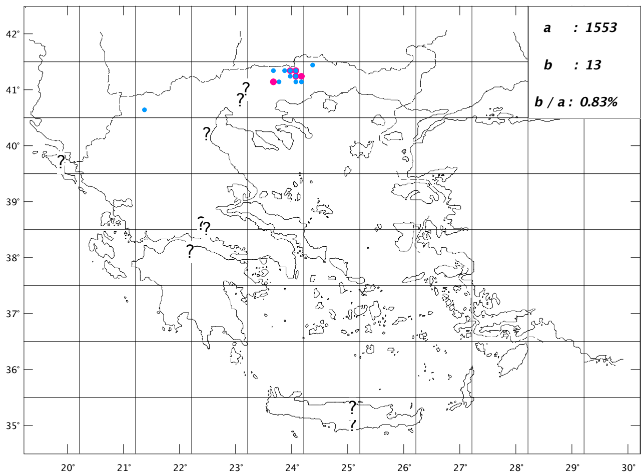


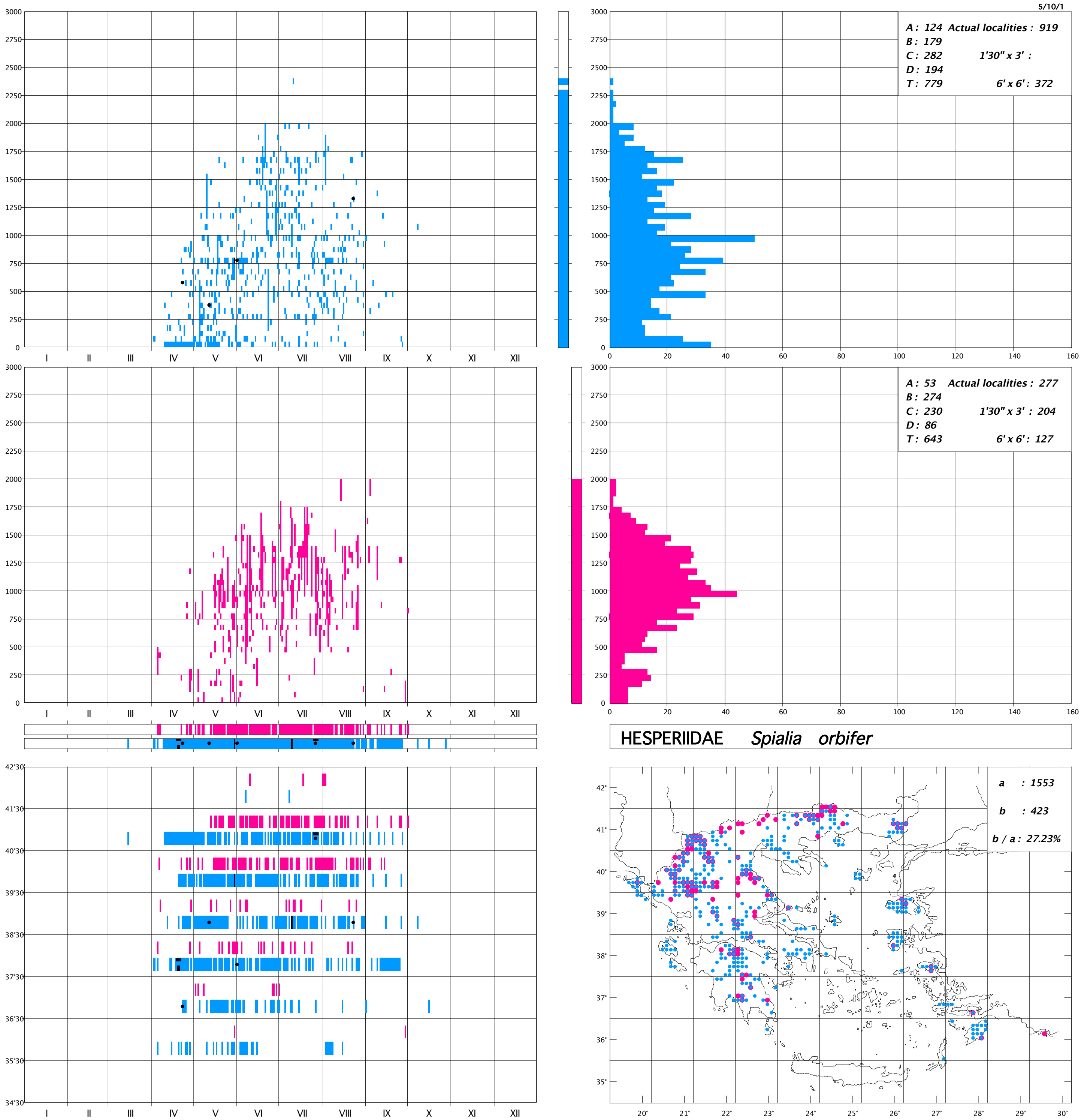


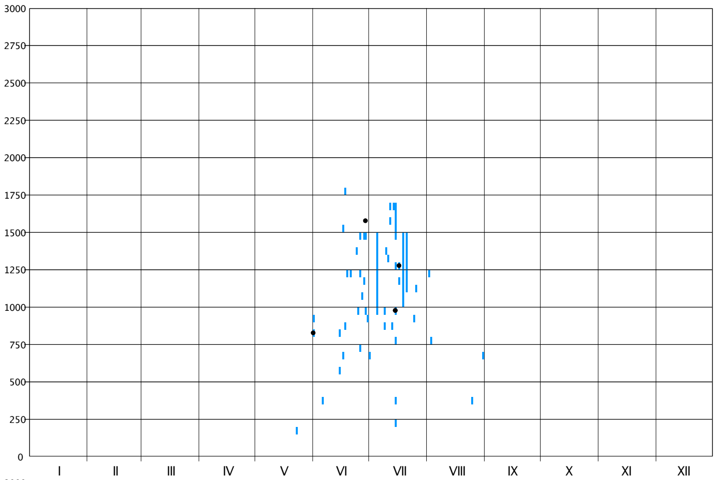


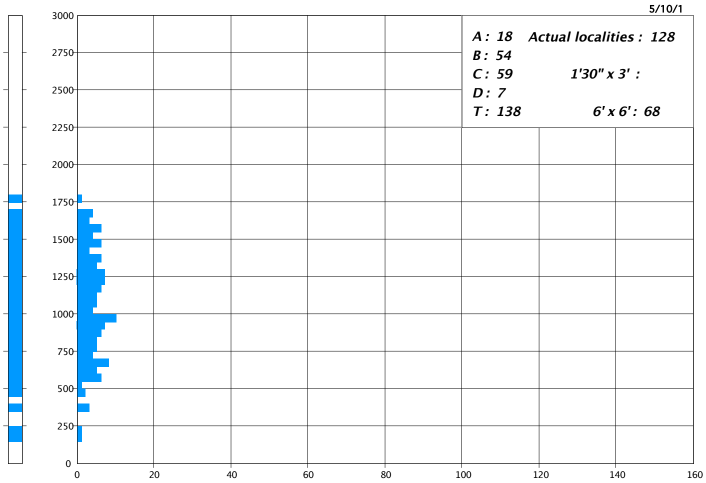
HESPERIIDAE *Pyrgus carthami*

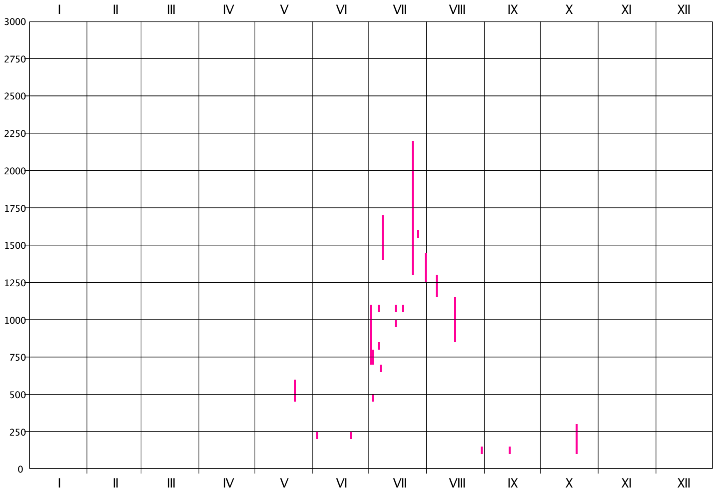


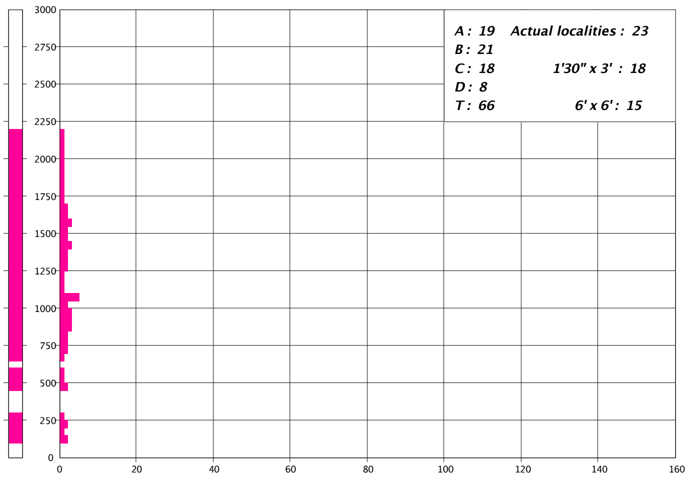


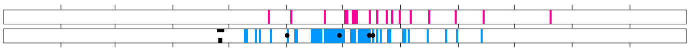

5/10/1
A : 124 Actual localities : 919
B : 179
C : 282 1'30" x 3' :
D : 194
T : 779 6' x 6' : 372
A : 53 Actual localities : 277
B : 274
C : 230 1'30" x 3' : 204
D : 86
T : 643 6' x 6' : 127
HESPERIIDAE Spialia orbifer
a : 1553
b : 423
b / a : 27.23%



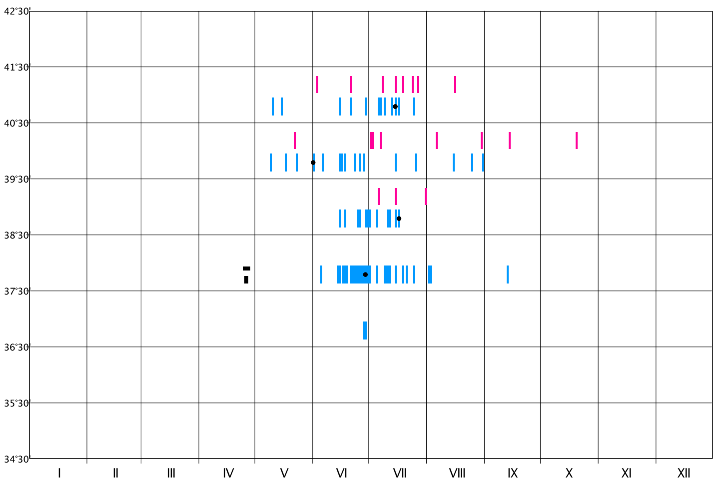


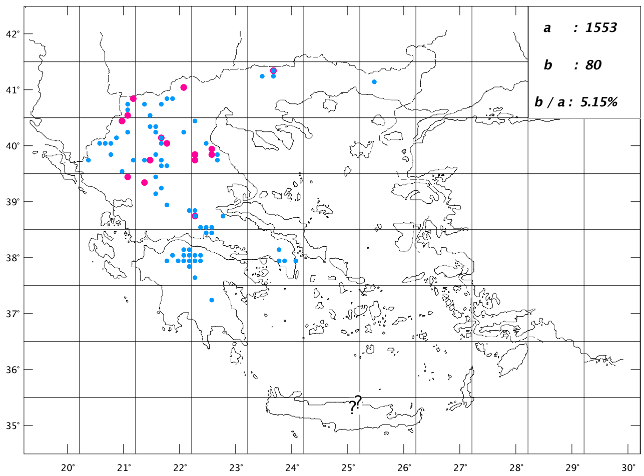


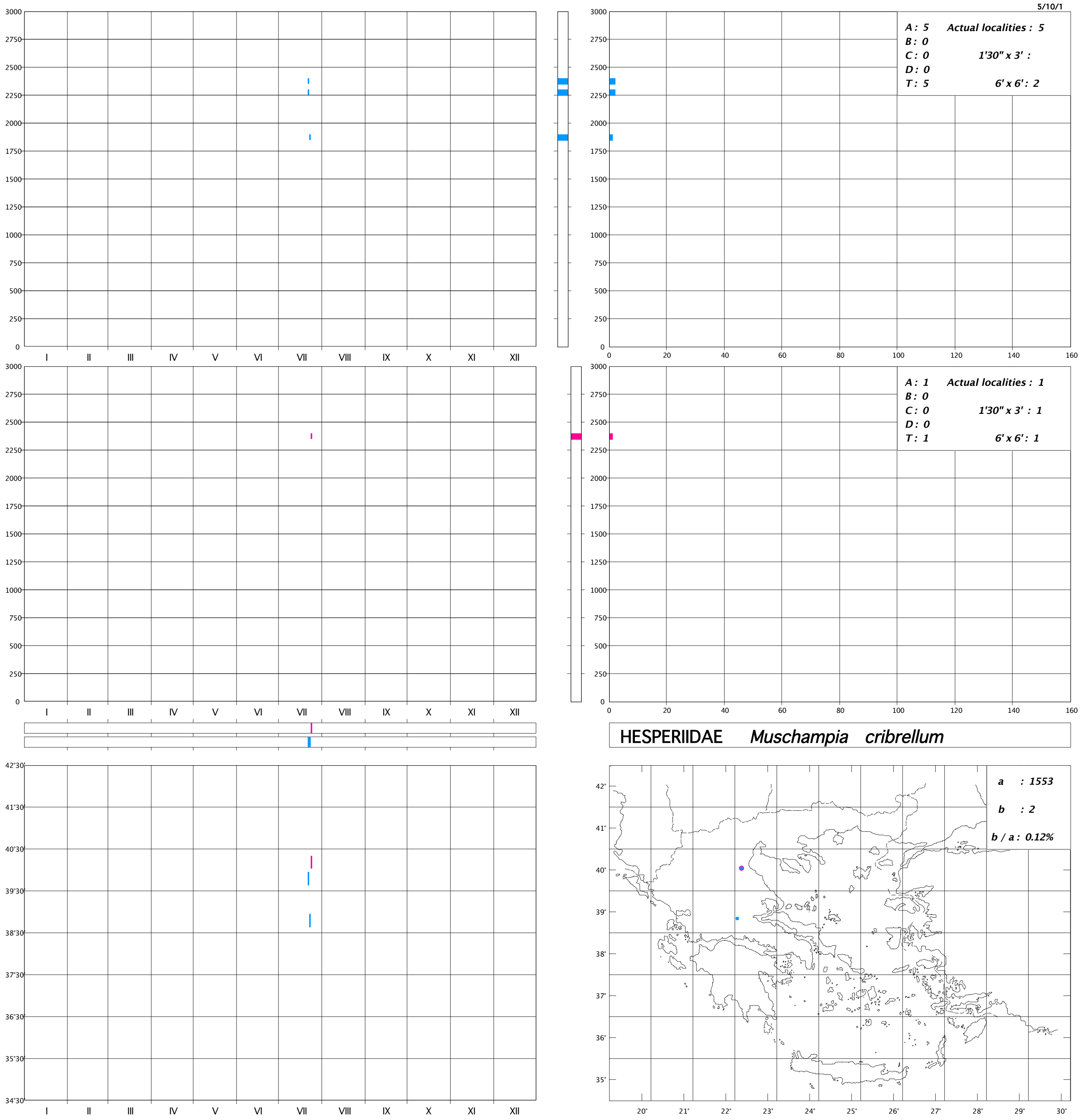




HESPERIIDAE *Spialia phlomidis*

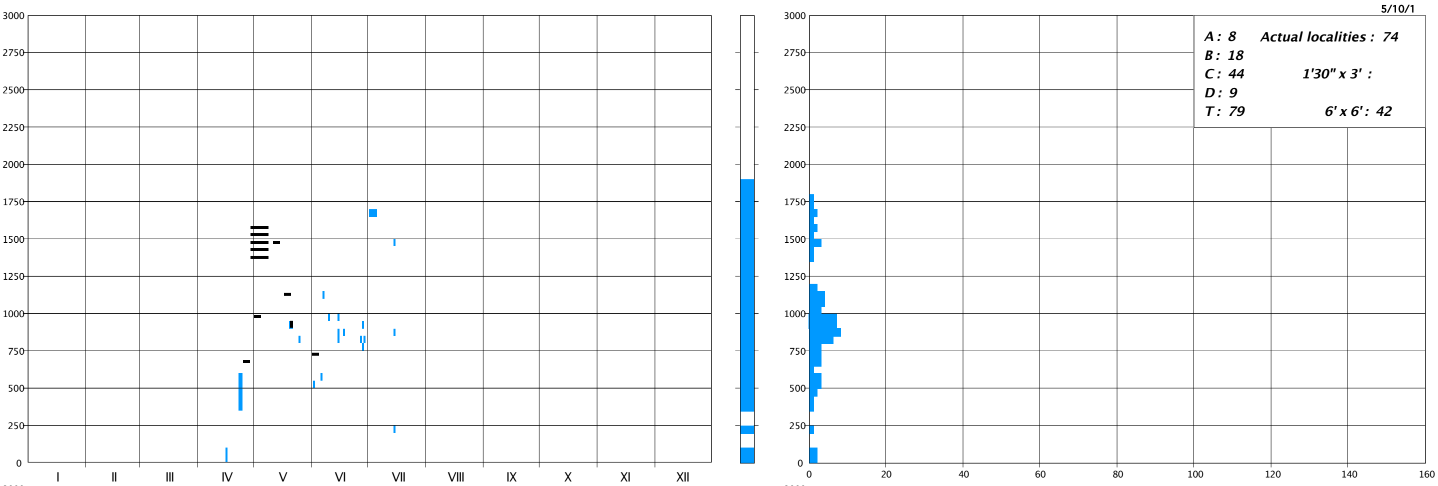


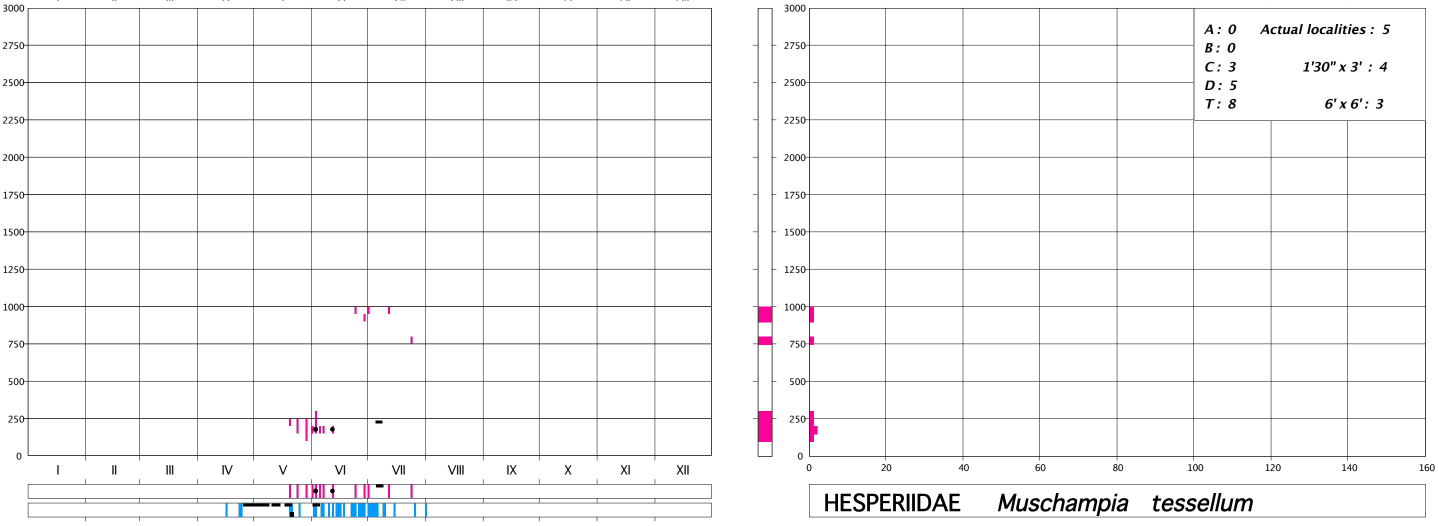




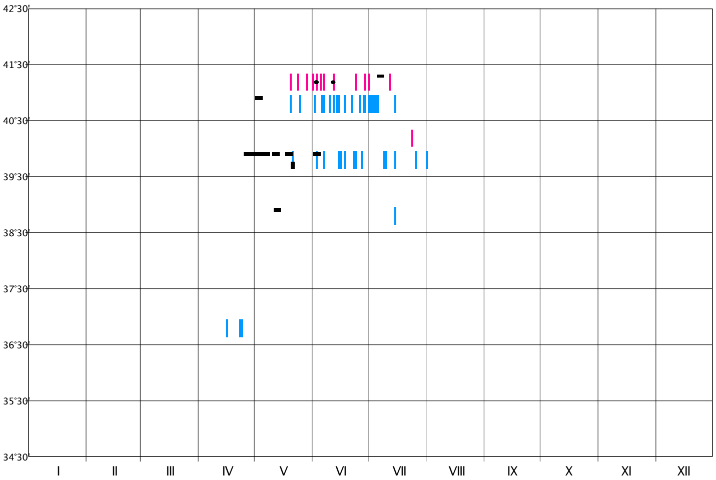
Muschampia cribrellum found in Mt Olympos and Mt. Oite (see in DAVKOV, SLOBODAN & XAVIER MÉRIT: Muschampia cribrellum (Eversmann, 1841) new to the Greek butterfly fauna and found in an unexpected alpine ecosystem (Lepidoptera : Hesperiidae), at: https://www.researchgate.net/publication/316740359)

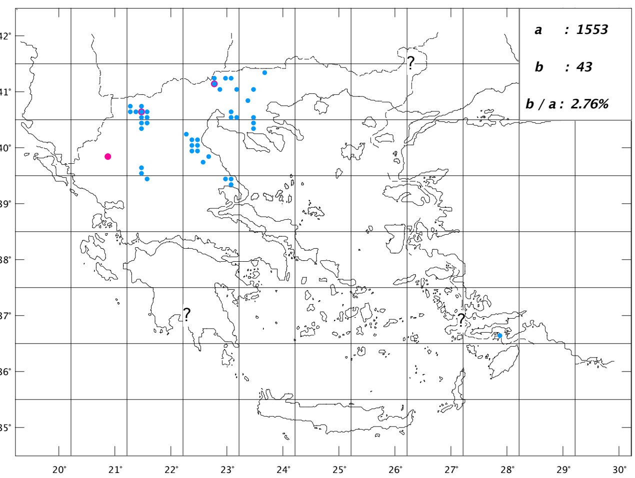
To *Muschampia cribrellum* βρέθηκε στον Όλυμπο και στην Οίτη (δες στο DAVKOV, SLOBODAN & XAVIER MÉRIT: Muschampia cribrellum (Eversmann, 1841) new to the Greek butterfly fauna and found in an unexpected alpine ecosystem (Lepidoptera : Hesperiidae), at: https://www.researchgate.net/publication/316740359)

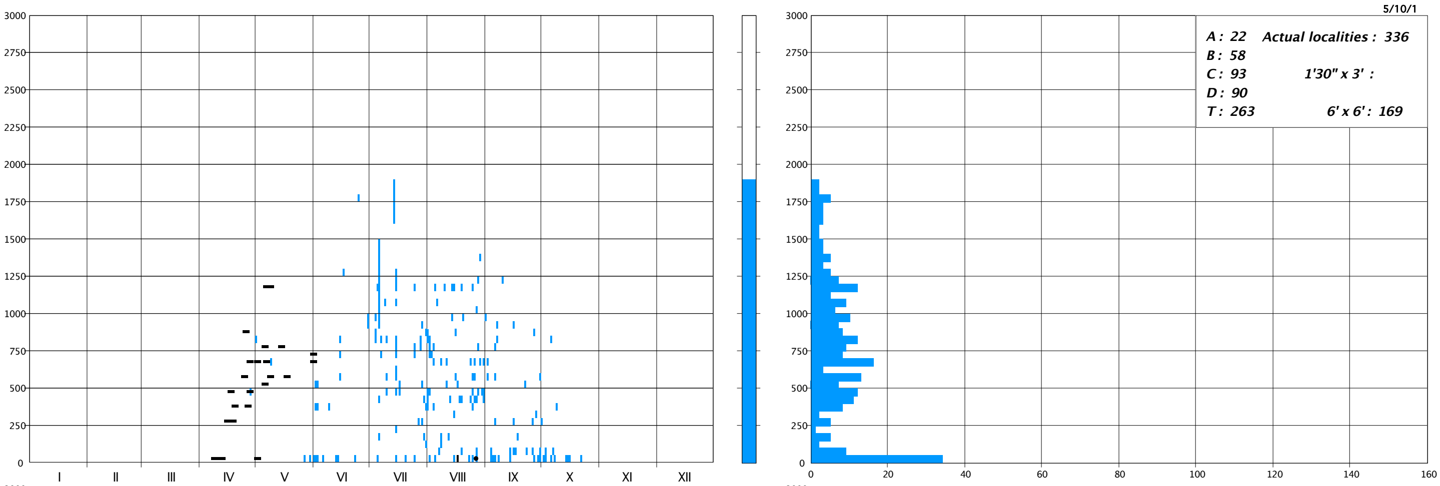


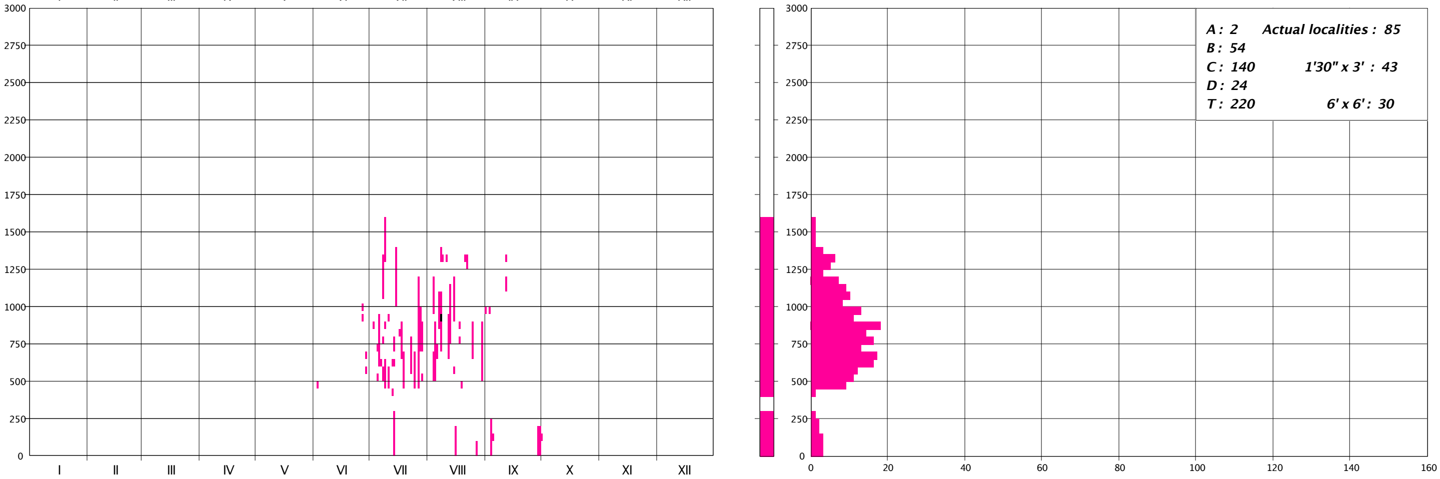


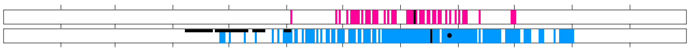
HESPERIIDAE *Muschampia tessellum*



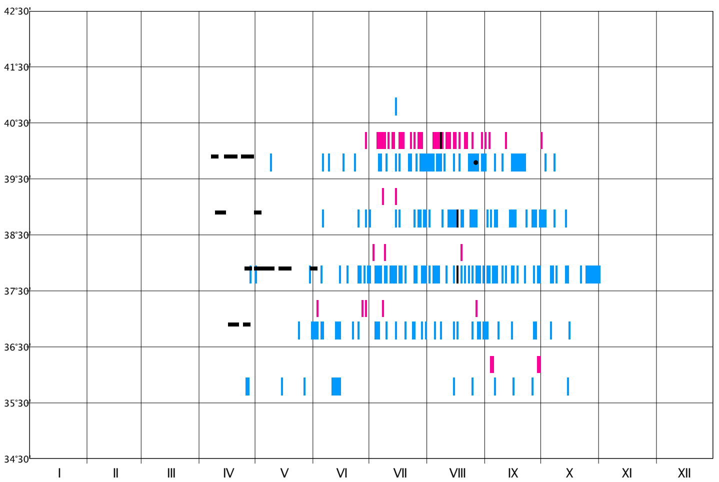


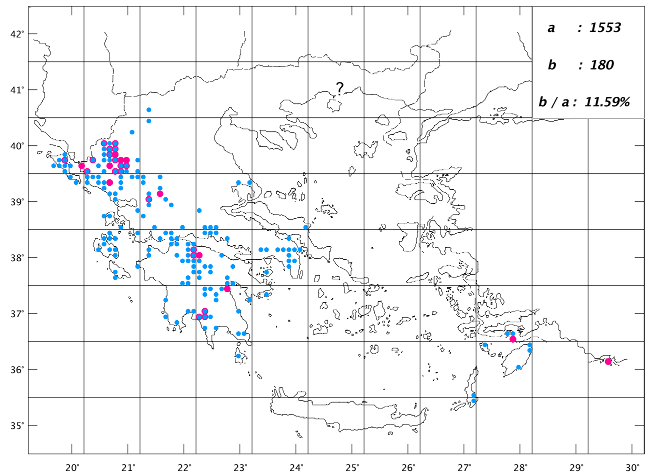


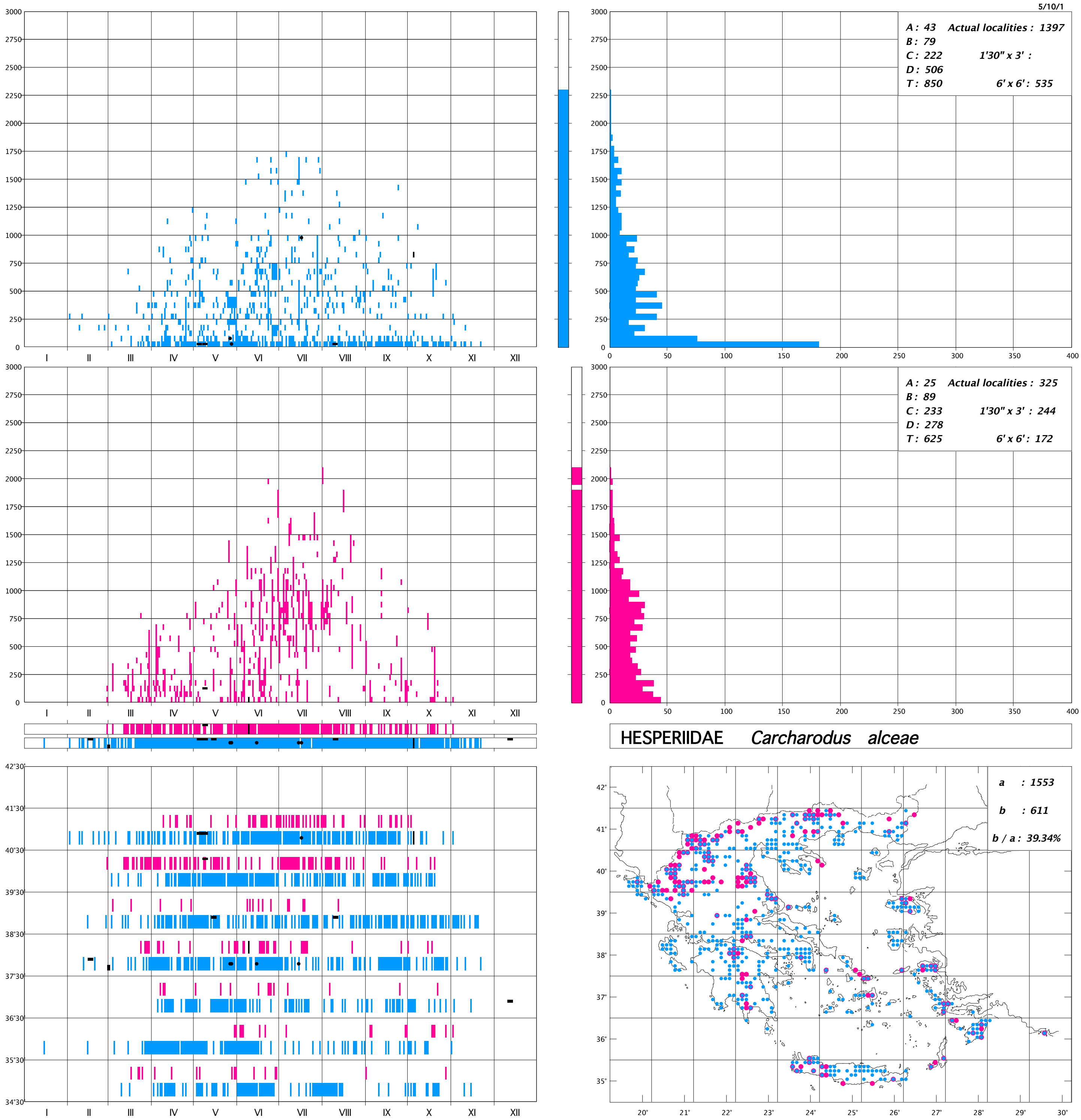


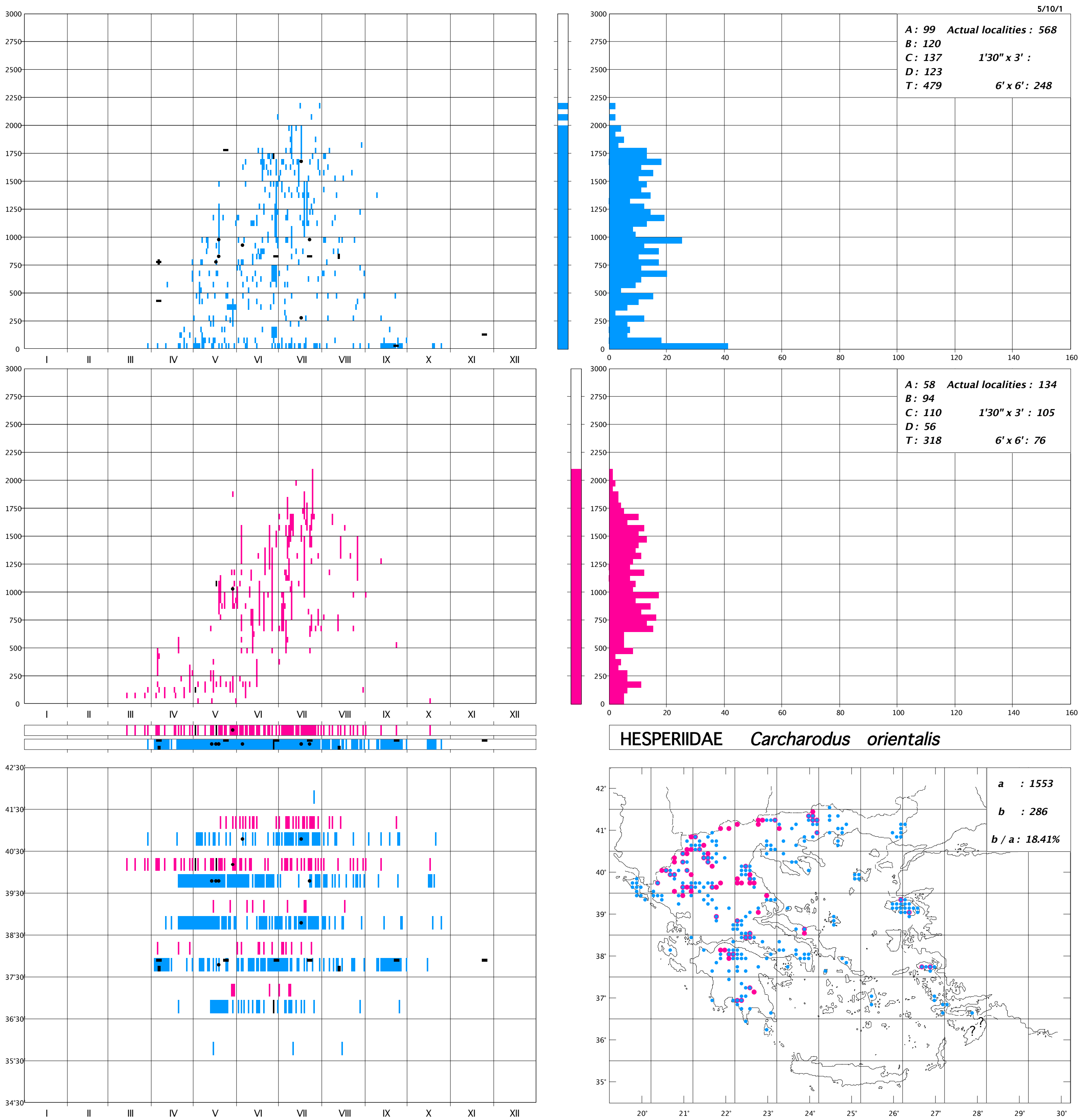


HESPERIIDAE *Muschampia proto*

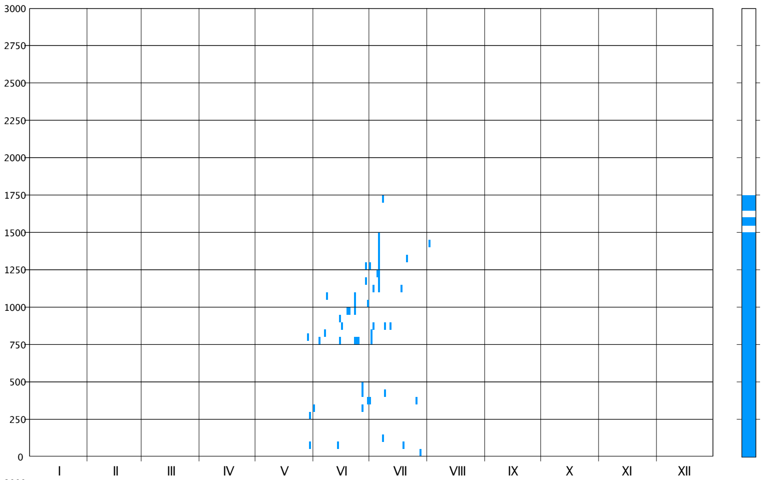


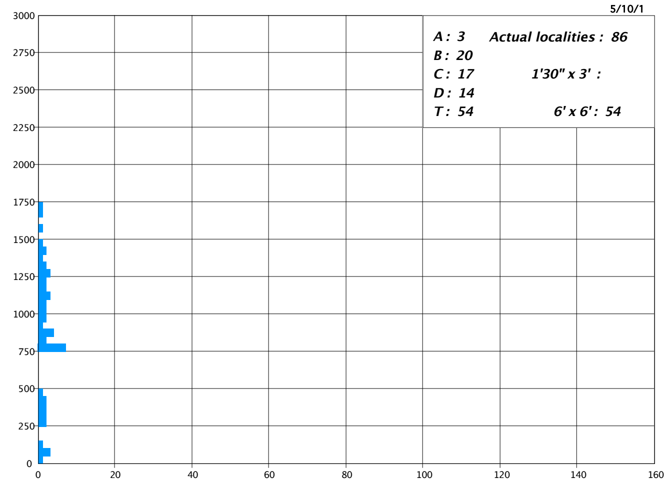


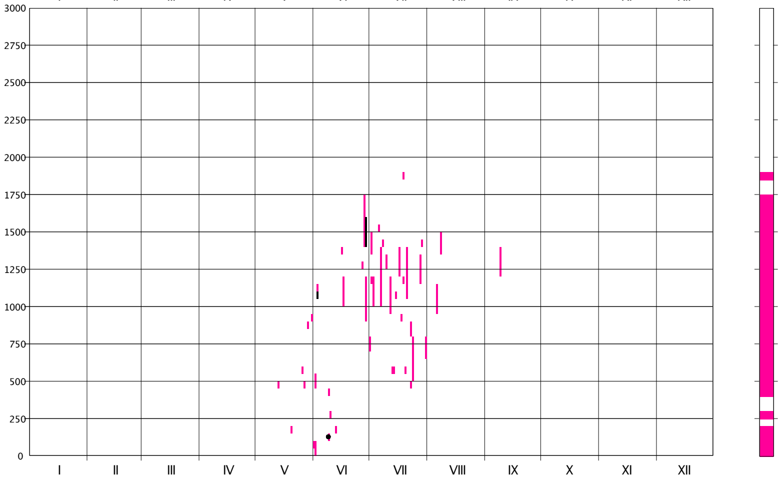

5/10/1
A : 43 Actual localities : 1397
B : 79
C : 222 1'30" x 3' :
D : 506
T : 850 6' x 6' : 535
A : 25 Actual localities : 325
B : 89
C : 233 1'30" x 3' : 244
D : 278
T : 625 6' x 6' : 172
HESPERIIDAE *Carcharodus alceae*
a : 1553
b : 611
b / a : 39.34%
I II III IV V VI VII VIII IX X XI XII

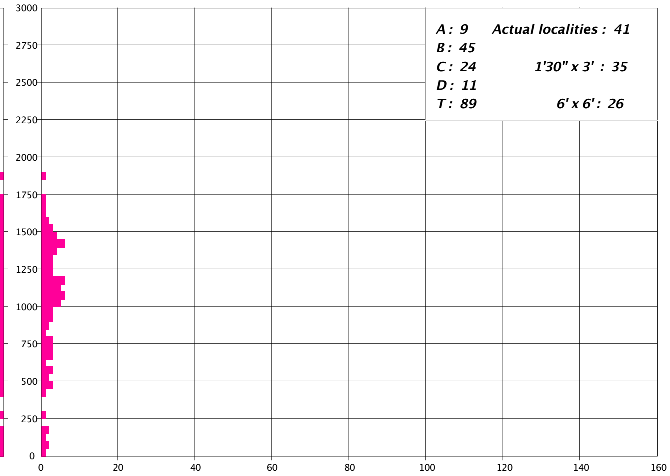


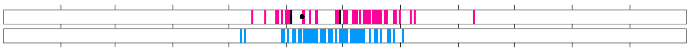
Αμφίβολη αναγνώριση / Identification uncertain



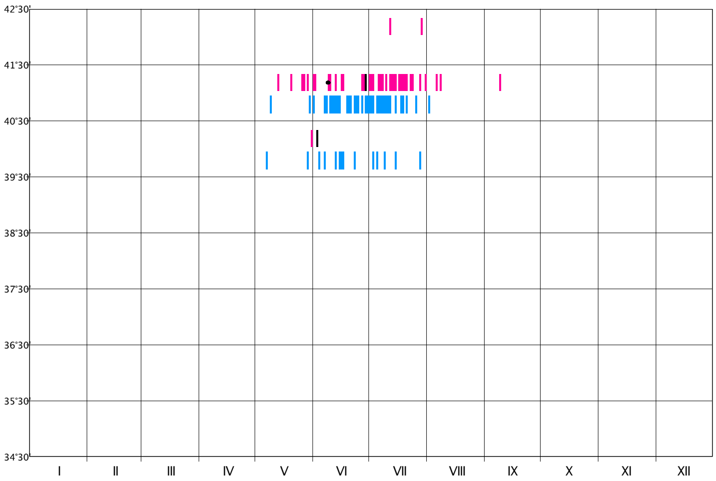


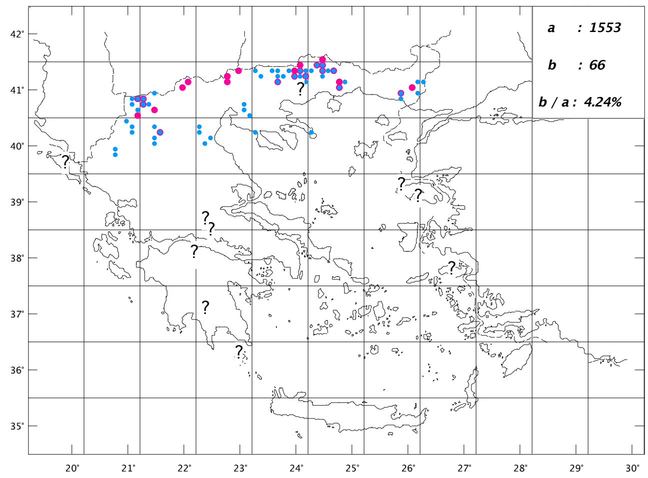


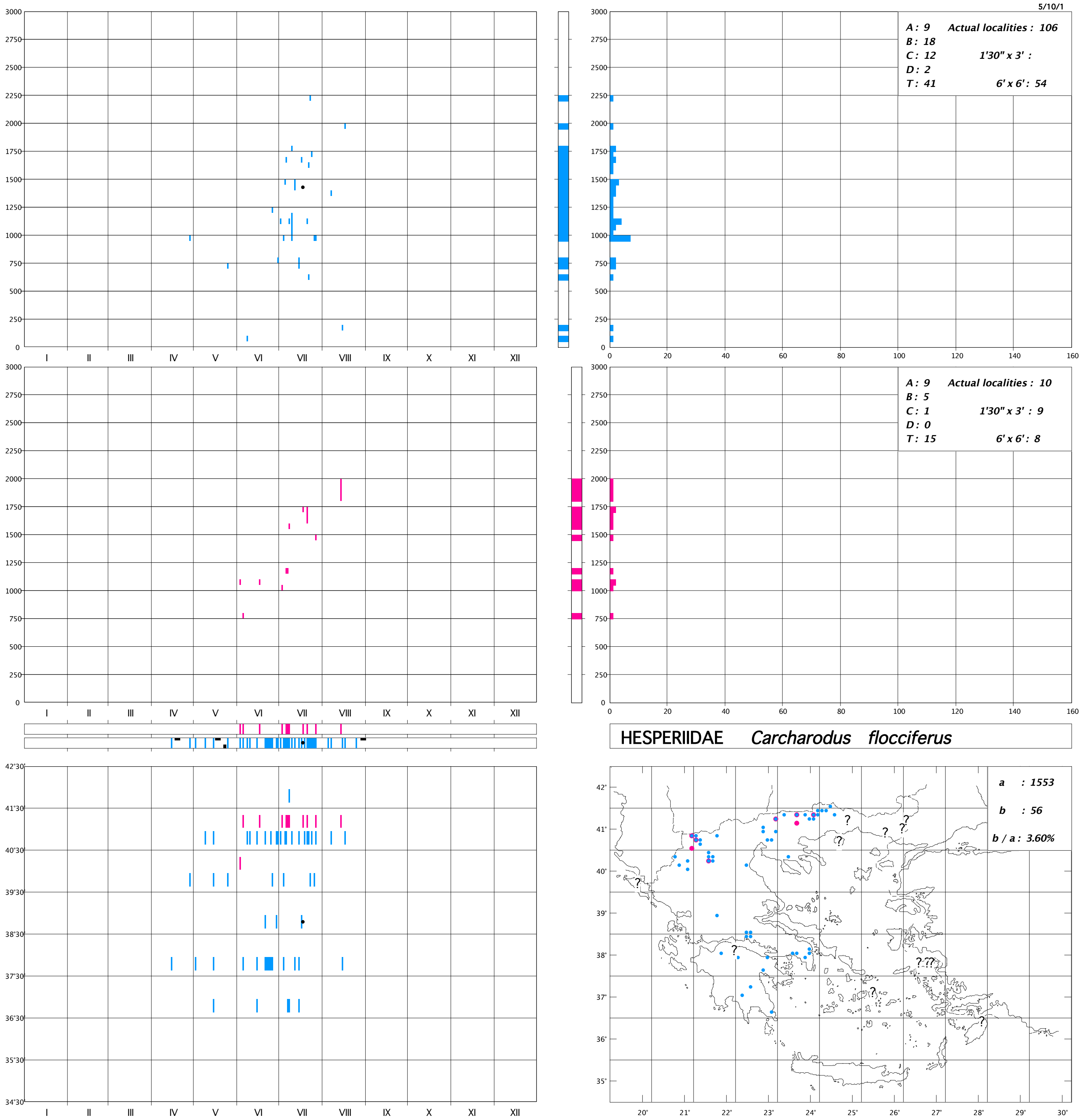




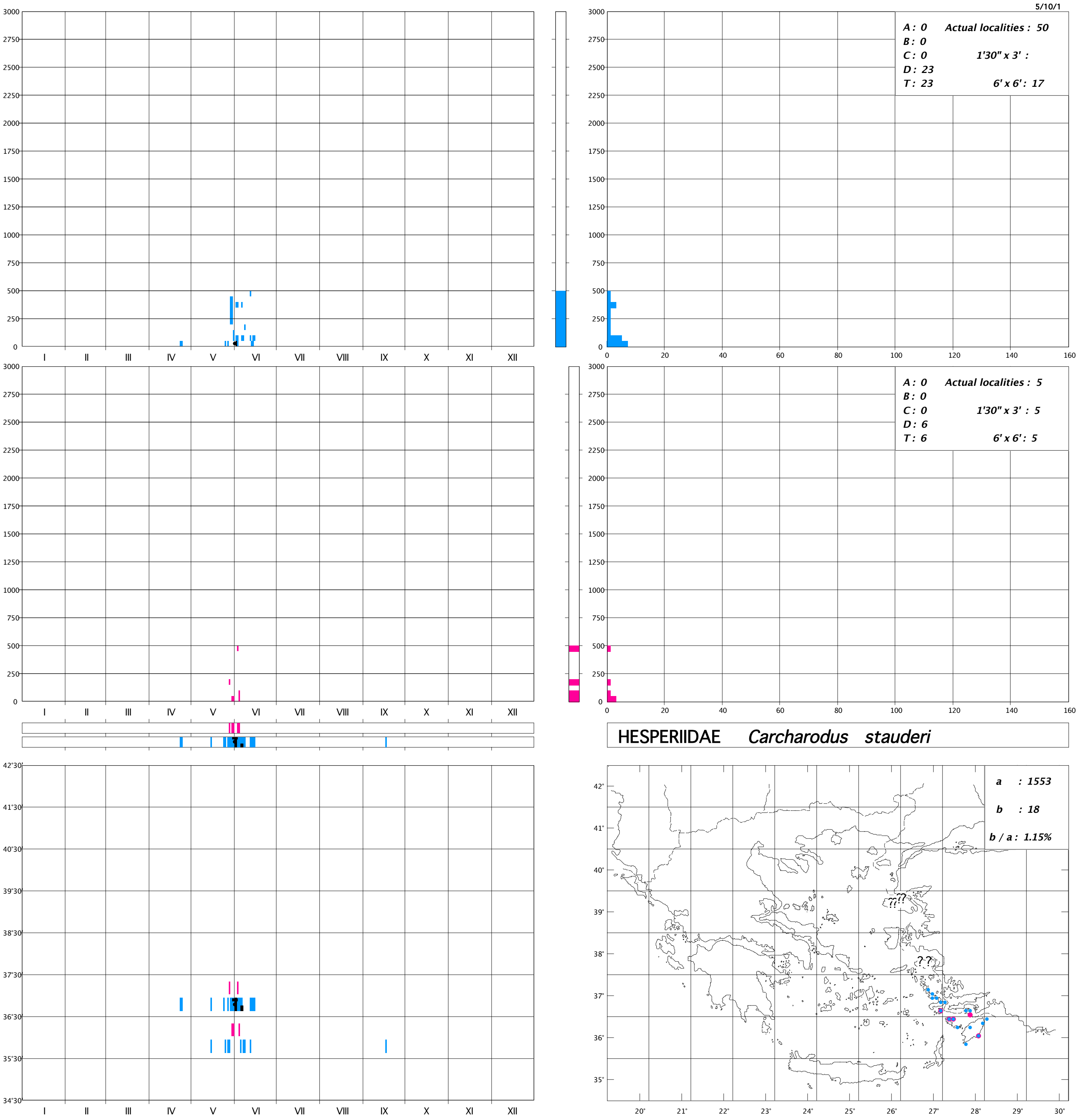
HESPERIIDAE *Carcharodus lavatherae*



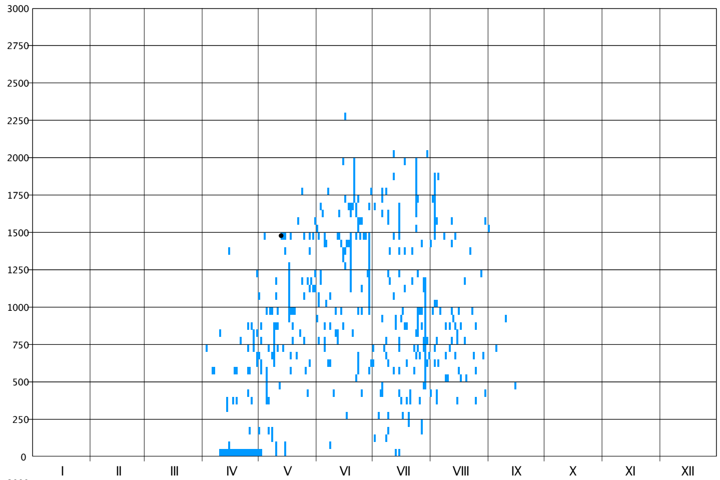


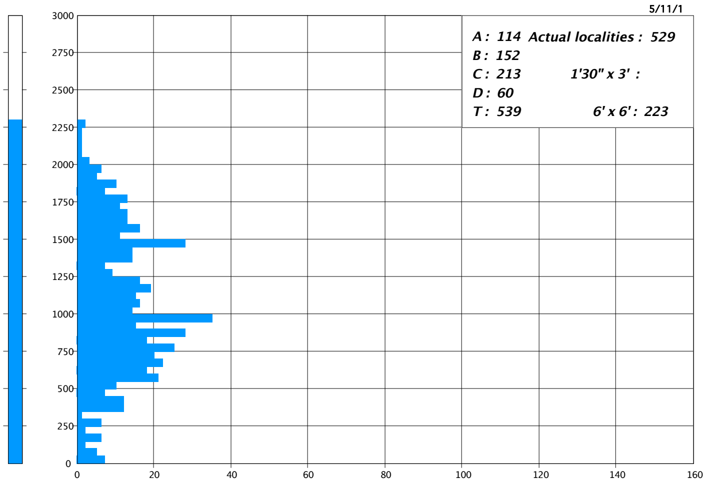


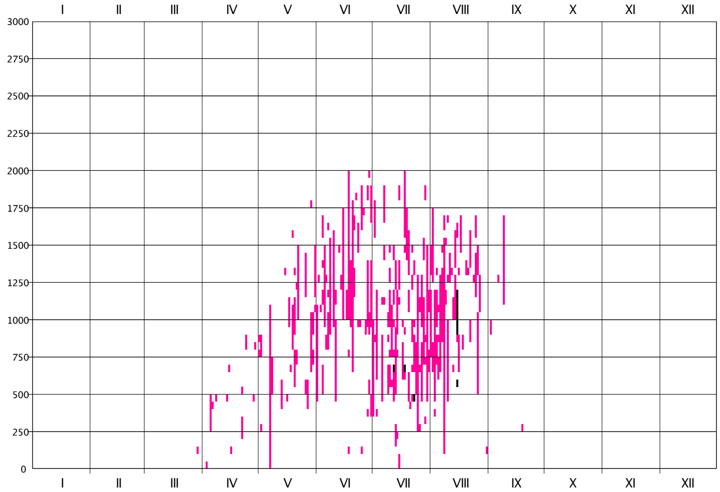
Αμφίβολη αναγνώριση / Identification uncertain

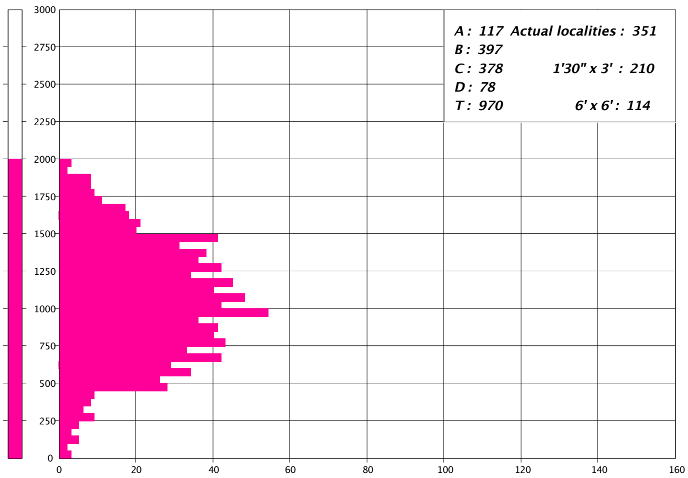


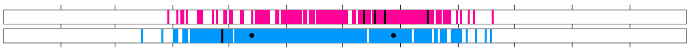
Αμφίβολη αναγνώριση / Identification uncertain



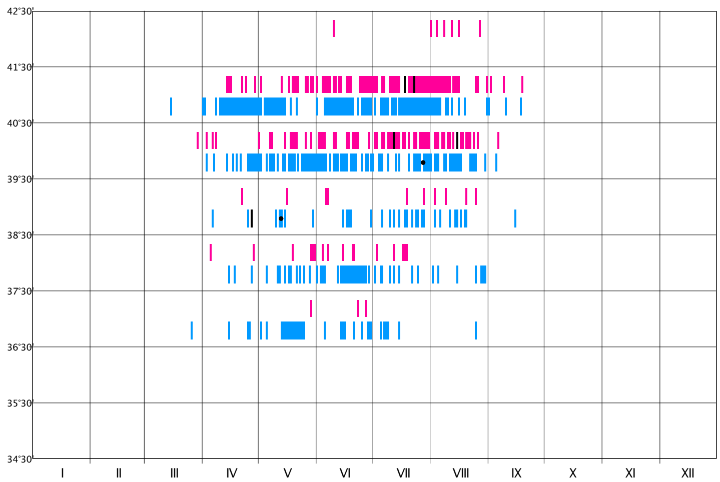


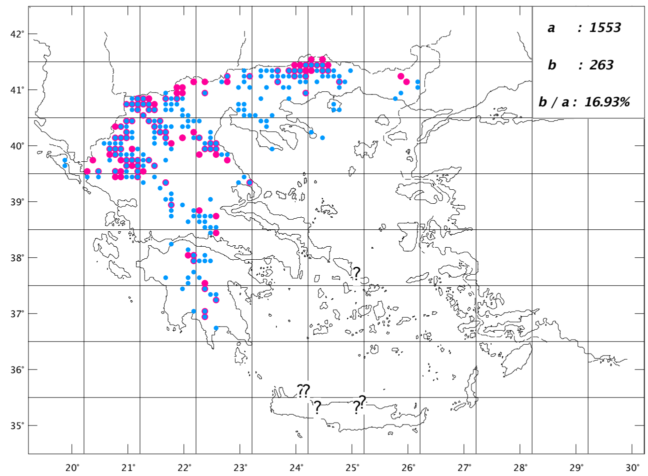


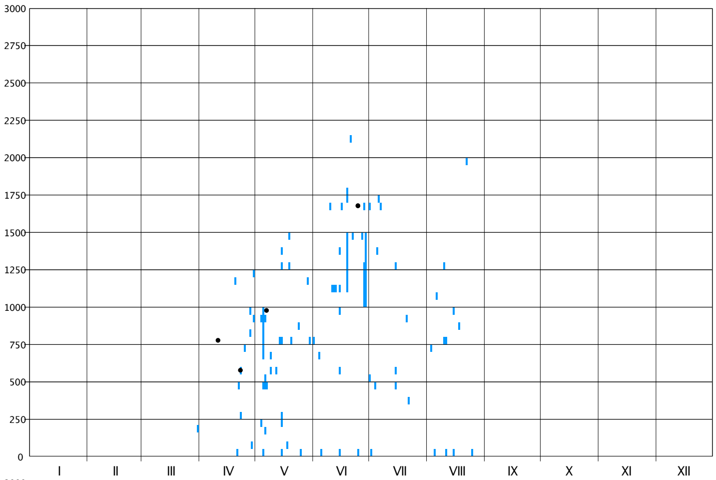


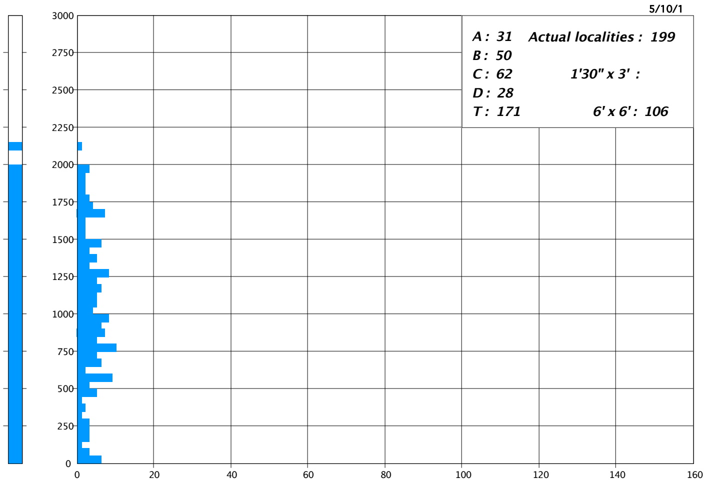


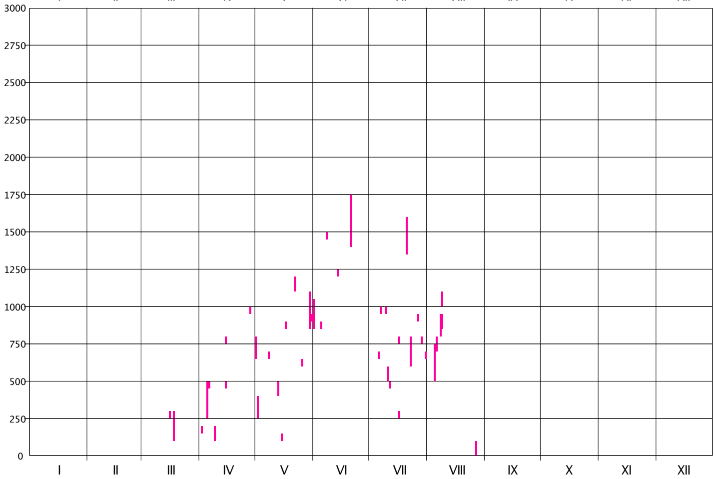
HESPERIIDAE *Erynnis tages*

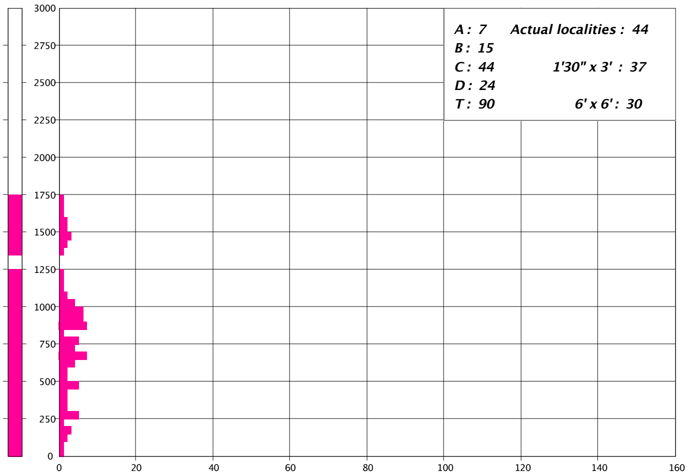


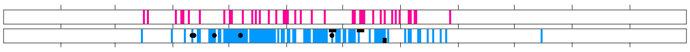




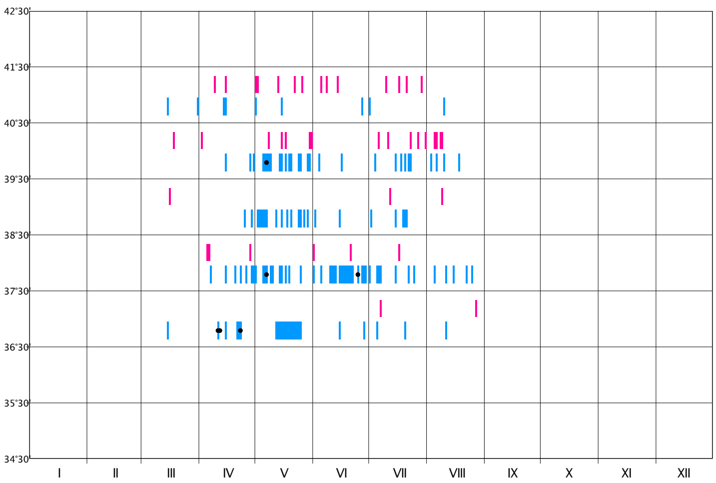


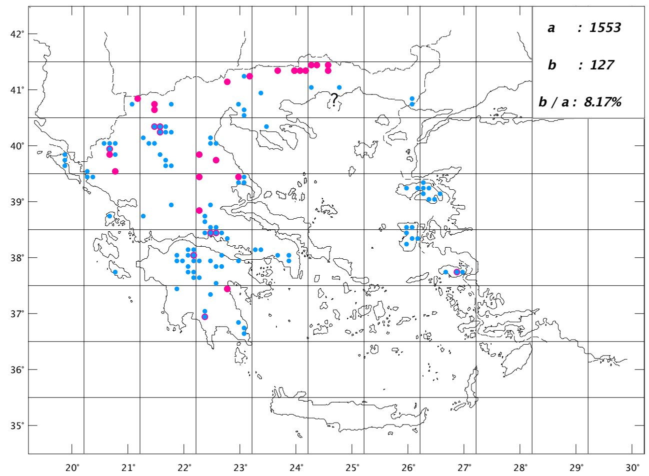




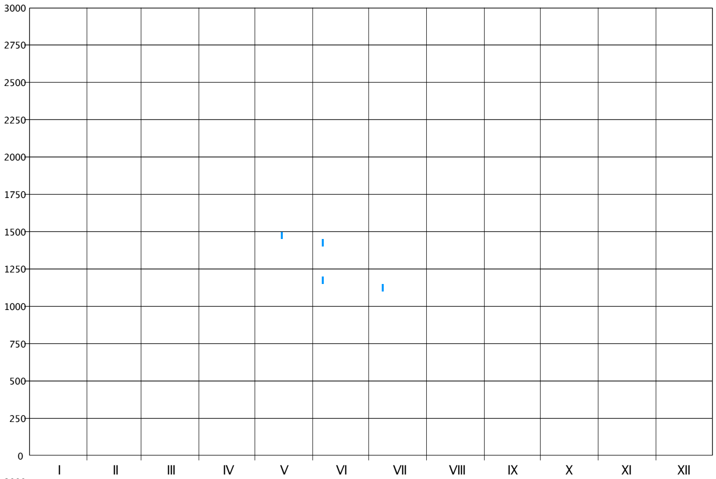


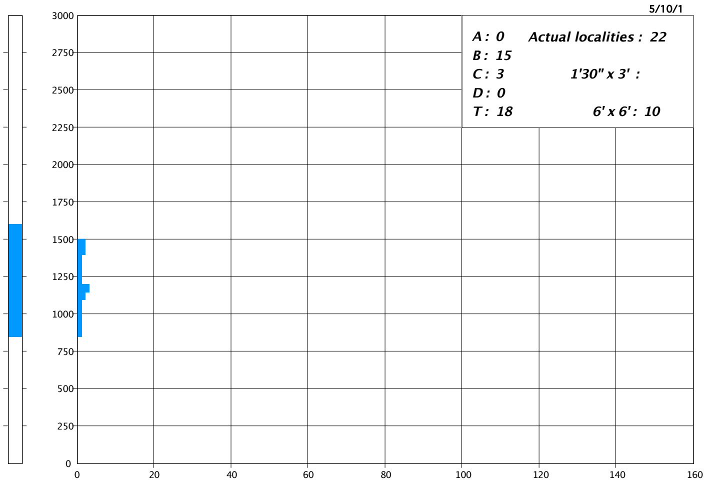
HESPERIIDAE *Erynnis marloyi*

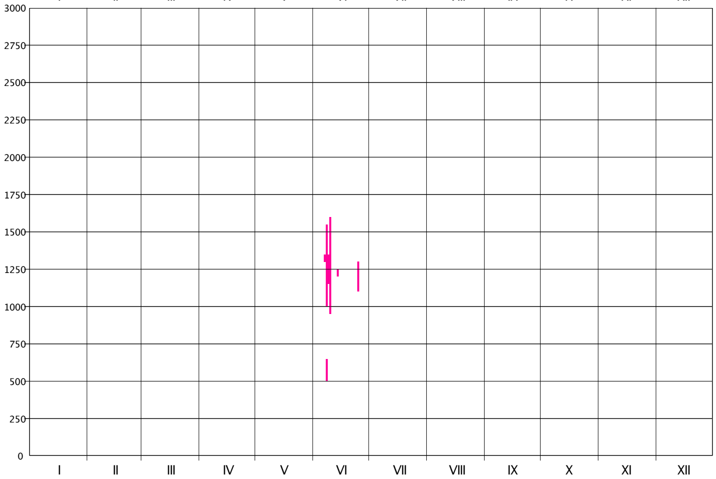


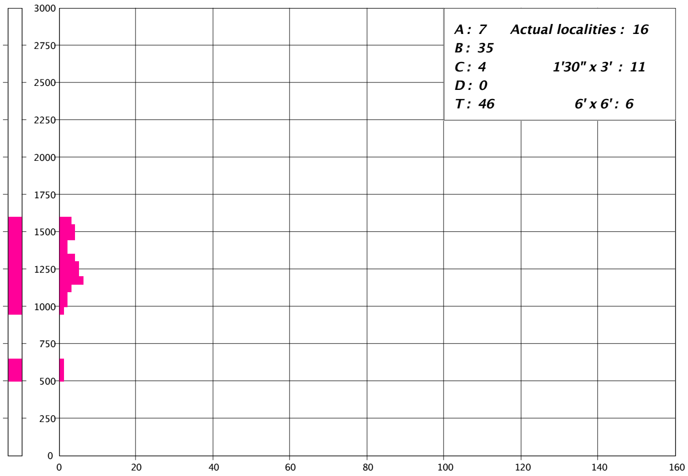


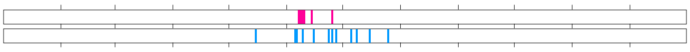
5/10/1



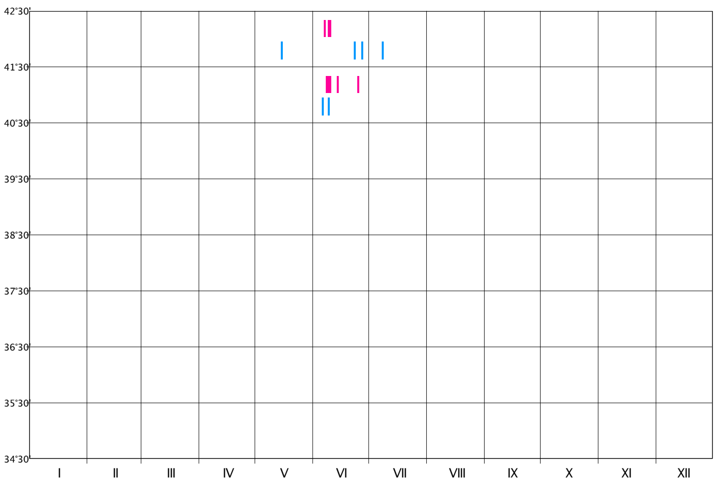


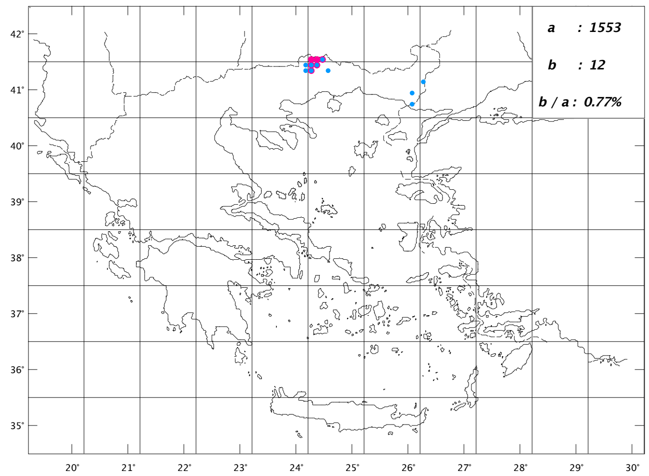


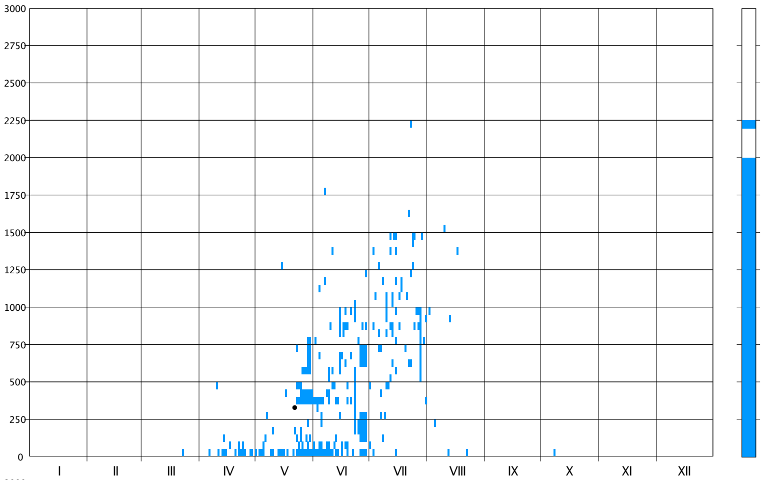


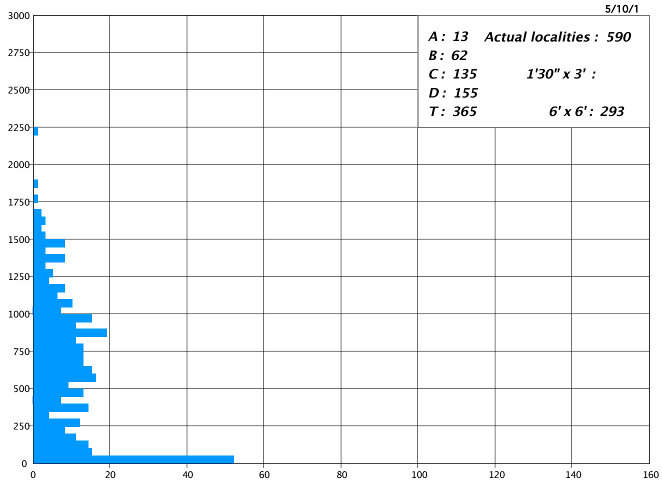


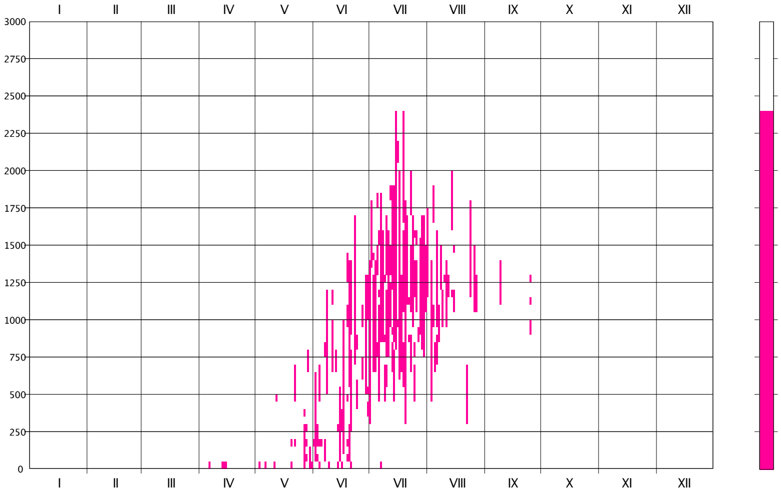
HESPERIIDAE *Carterocephalus palaemon*

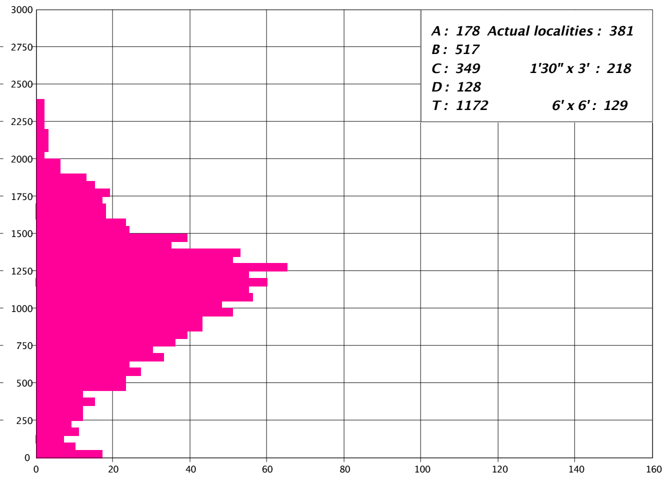


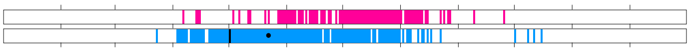




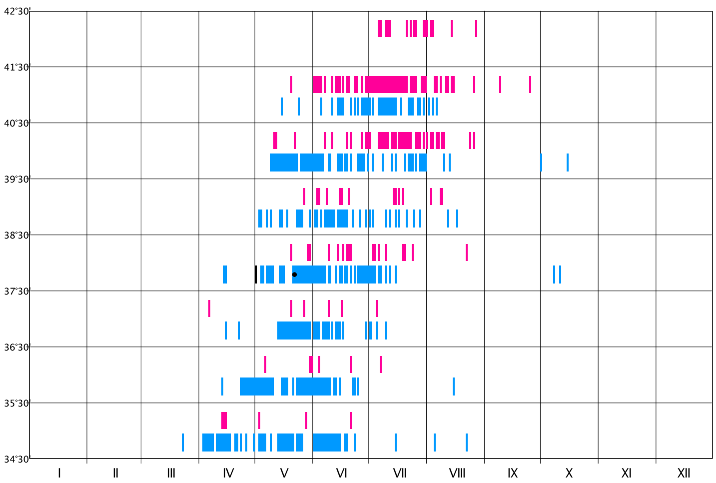


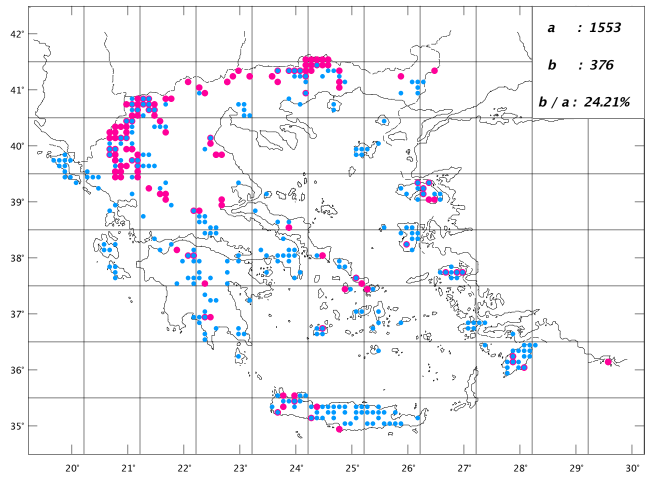


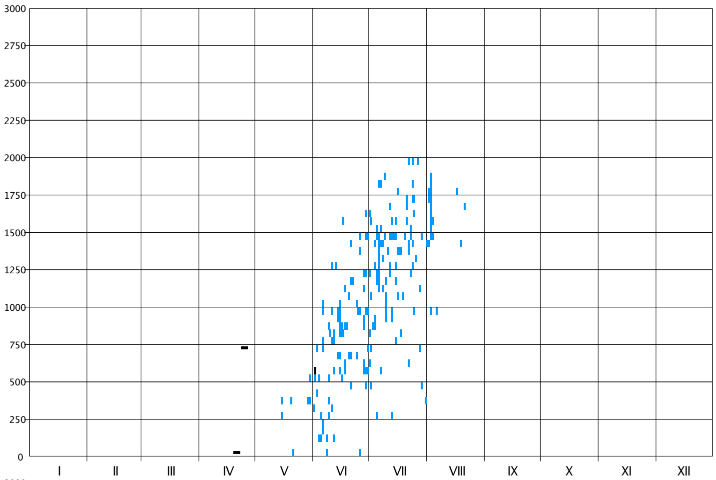


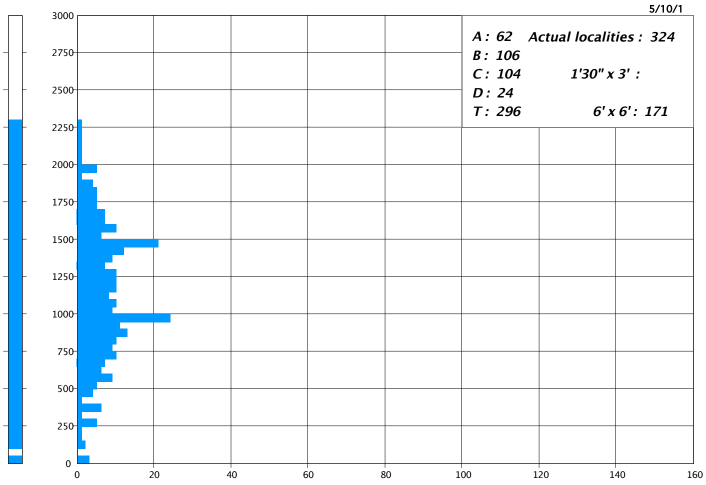


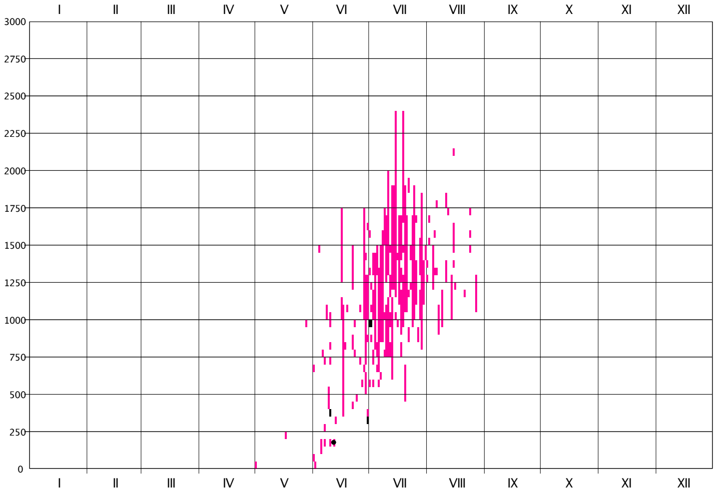
HESPERIIDAE *Thymelicus acteon*

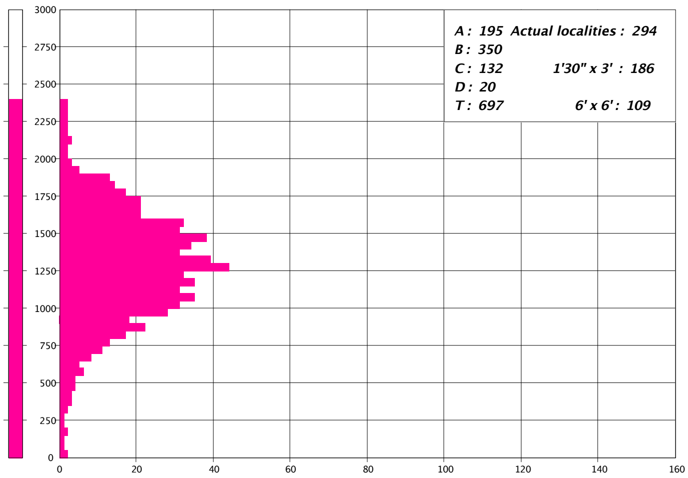


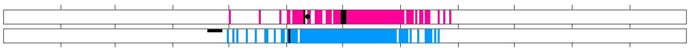




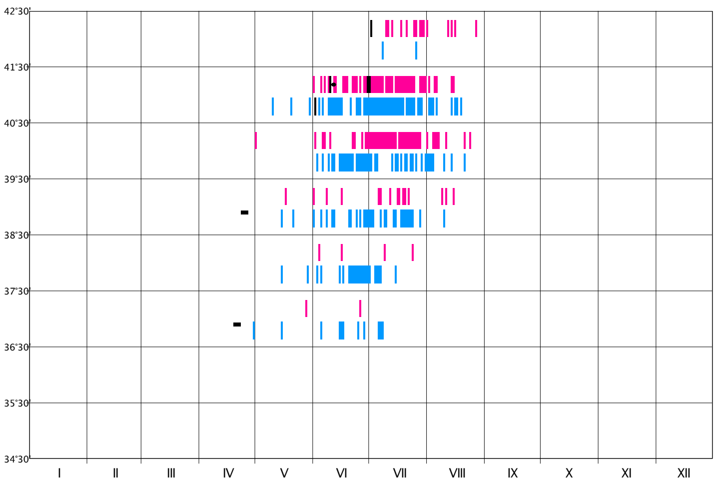


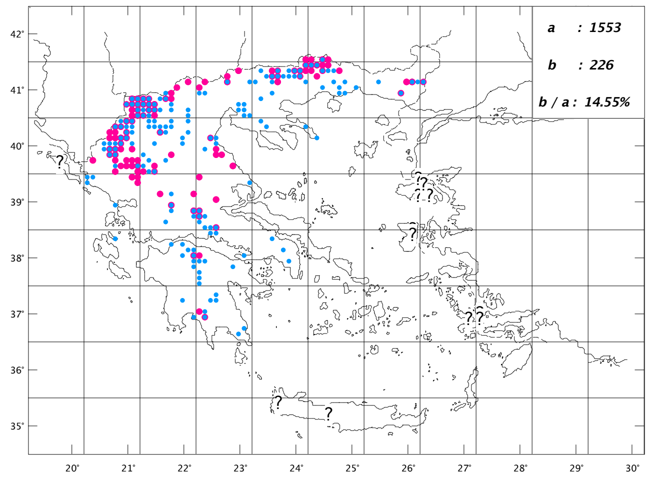


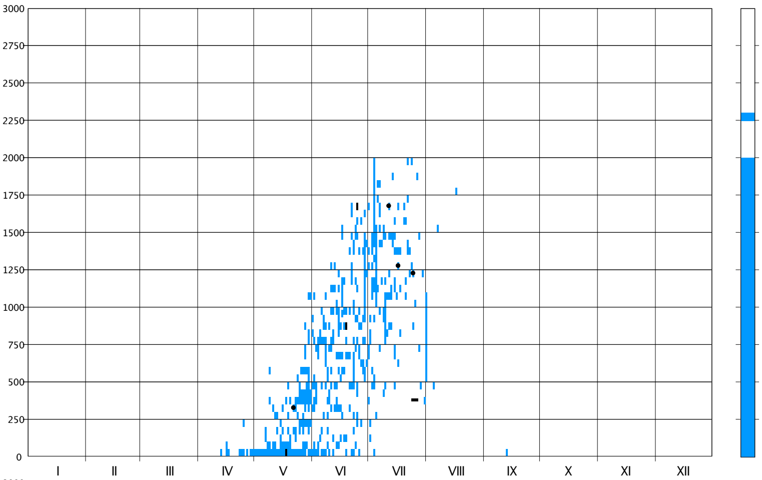


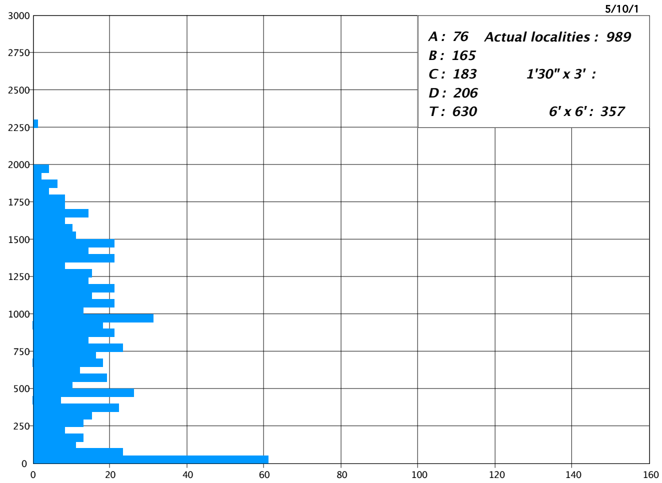


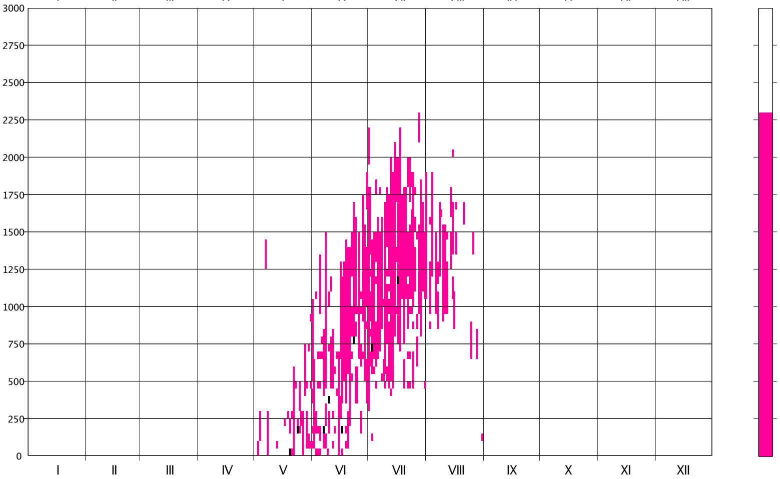
HESPERIIDAE *Thymelicus lineola*

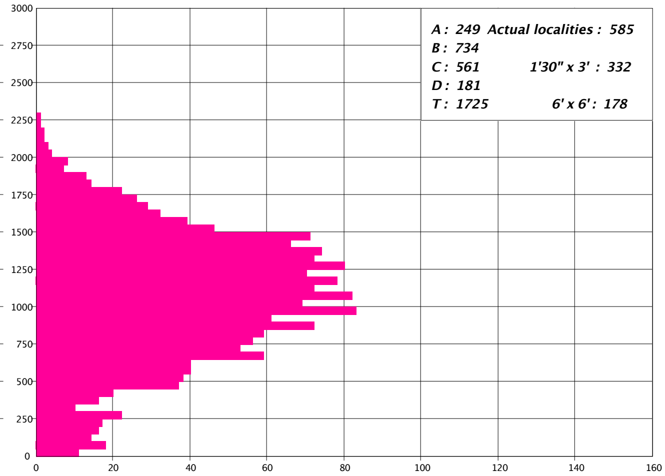




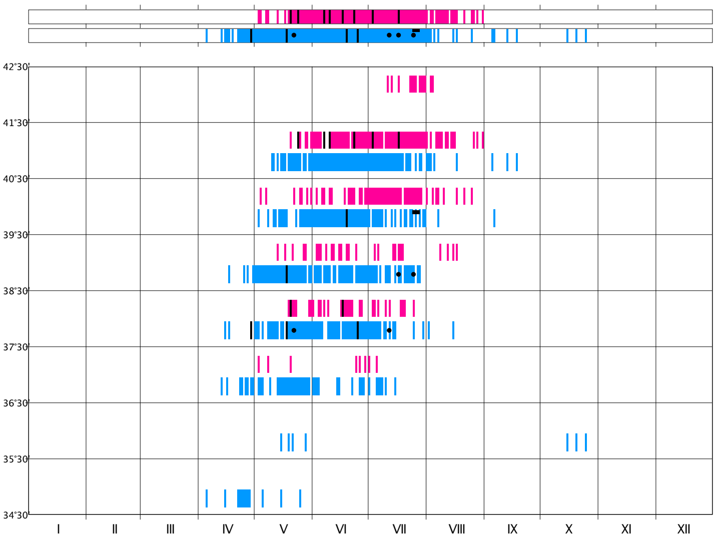


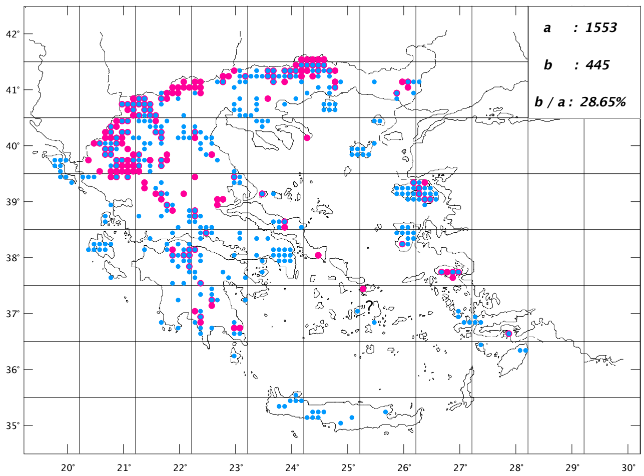


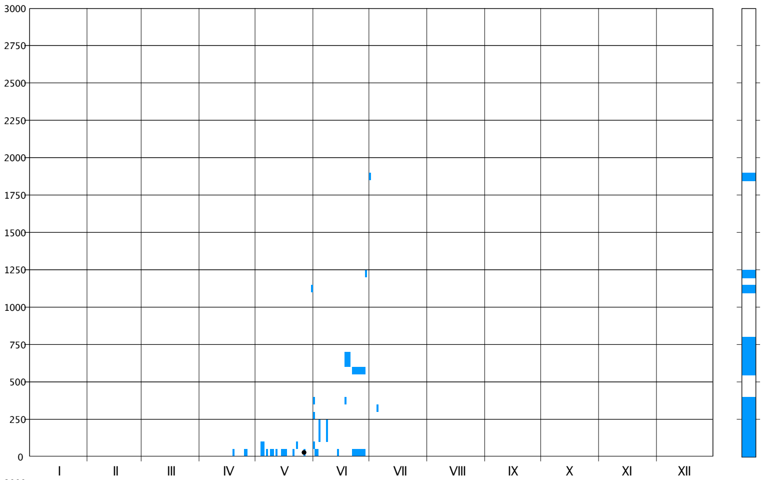


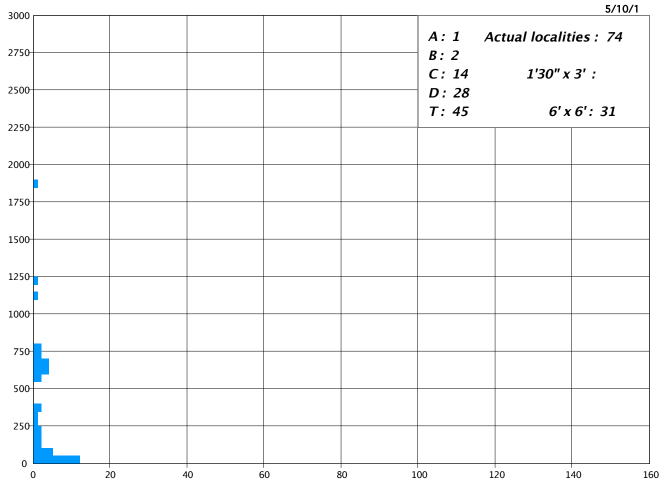


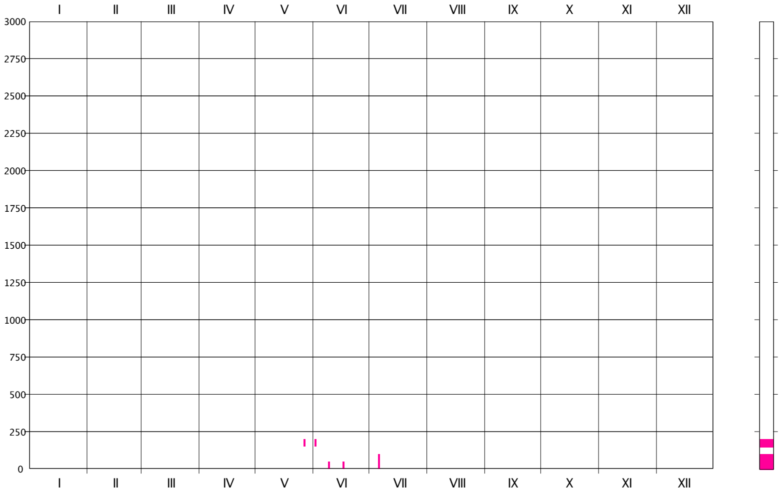
HESPERIIDAE *Thymelicus sylvestris*

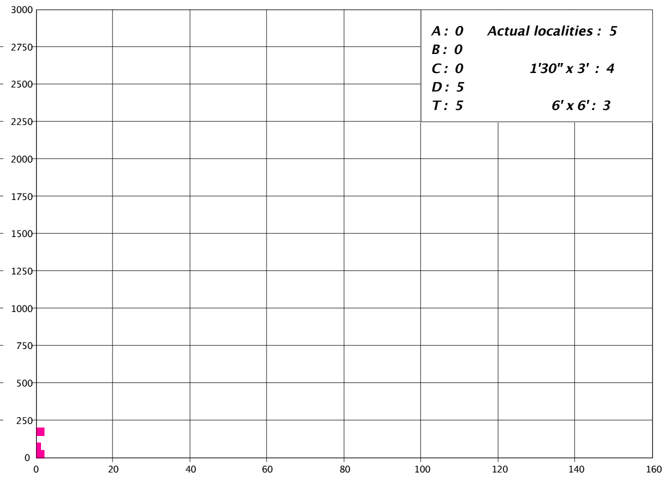




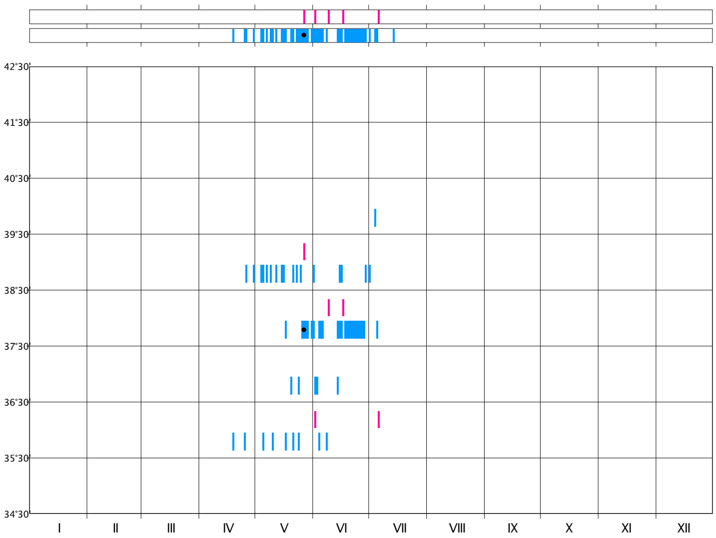


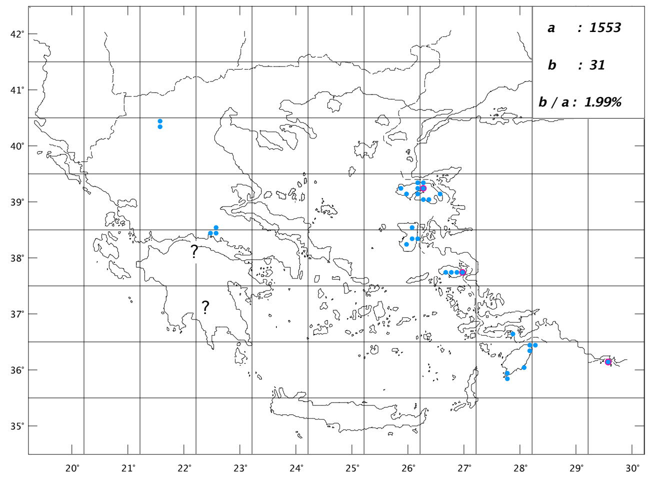


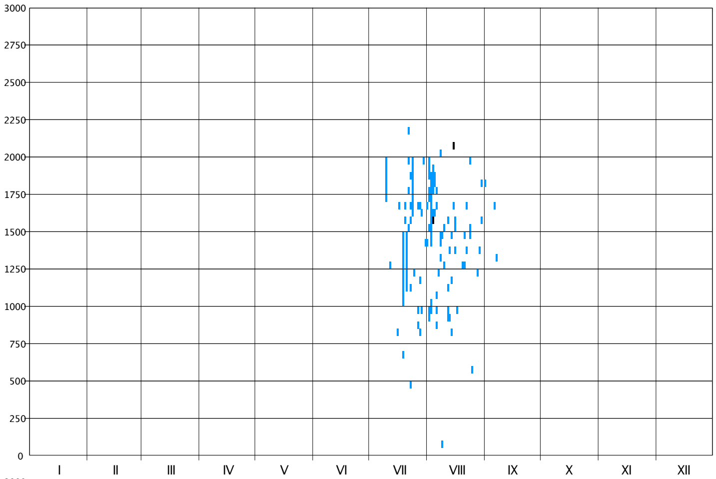


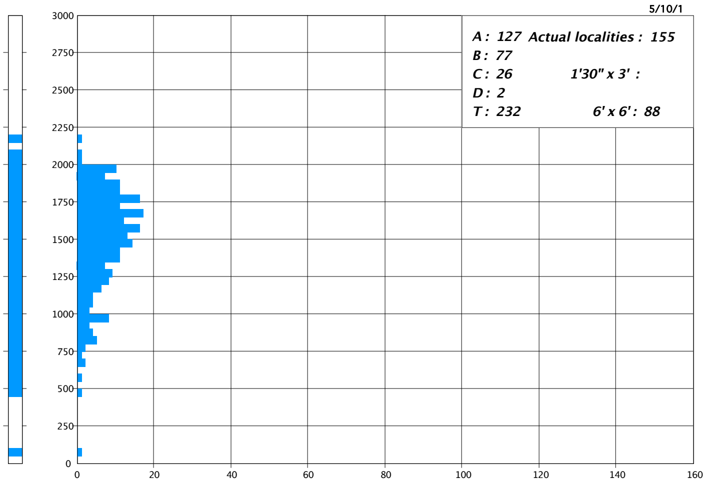


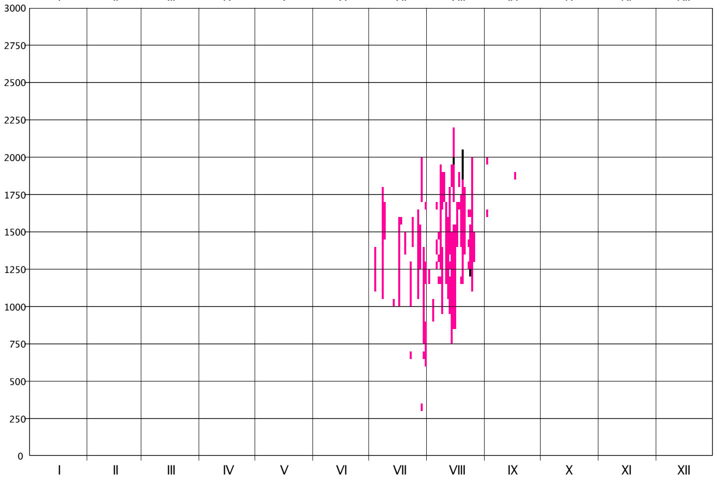
HESPERIIDAE *Thymelicus hyrax*

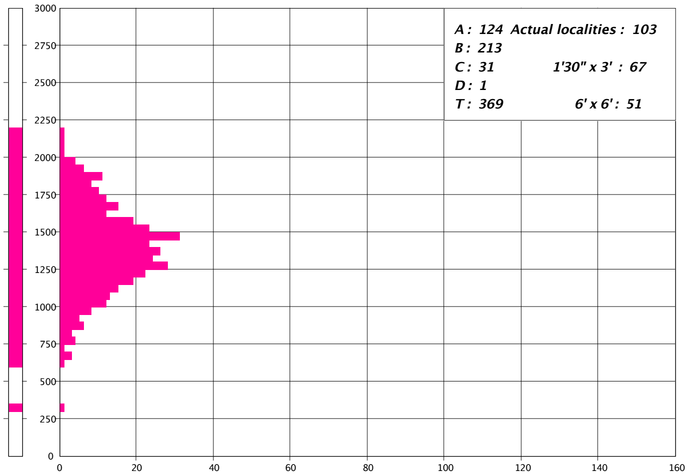


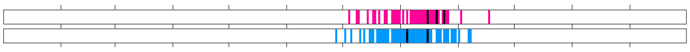




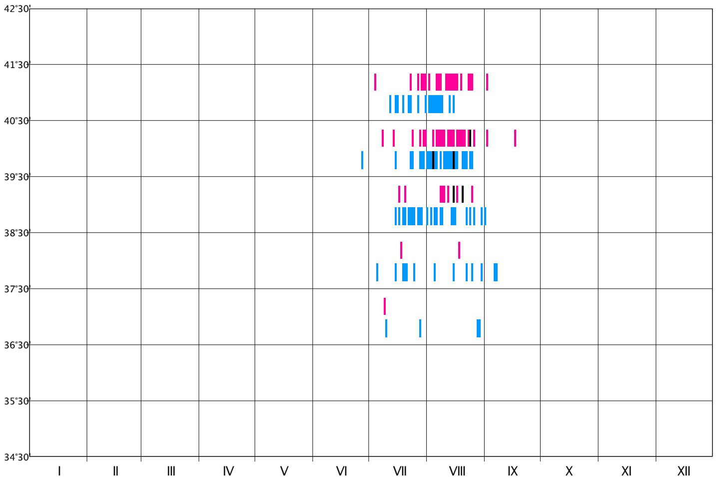


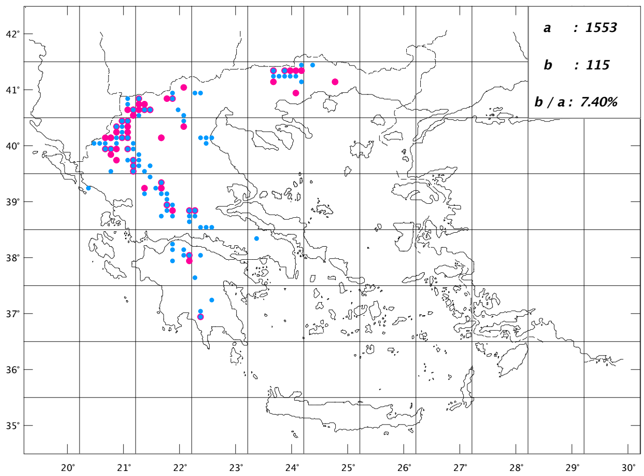






HESPERIIDAE *Hesperia comma*





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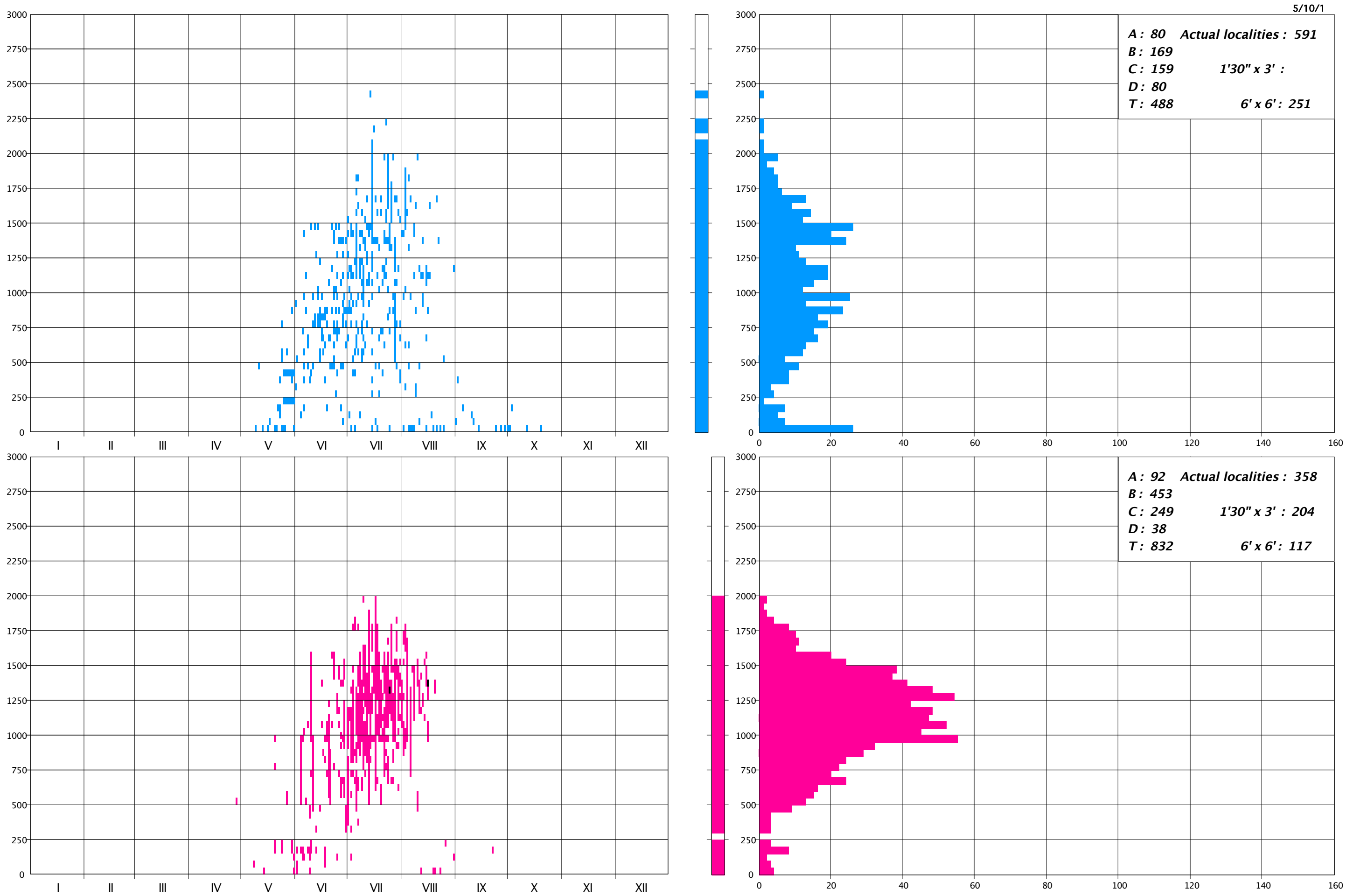
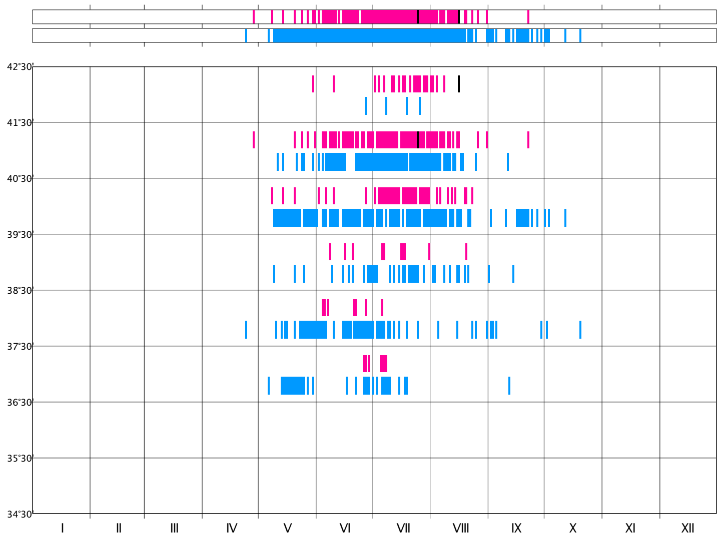
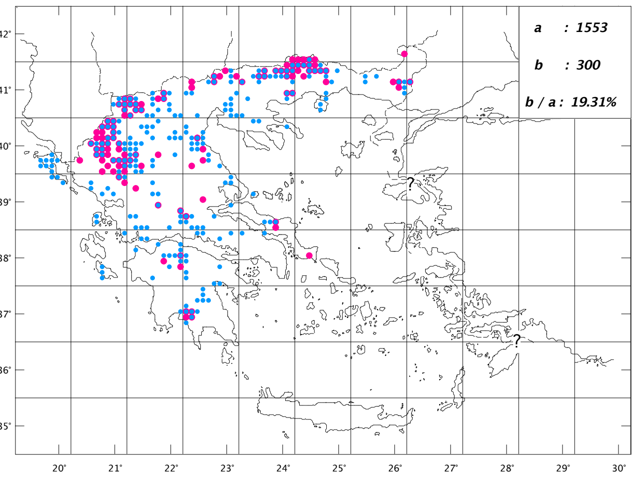
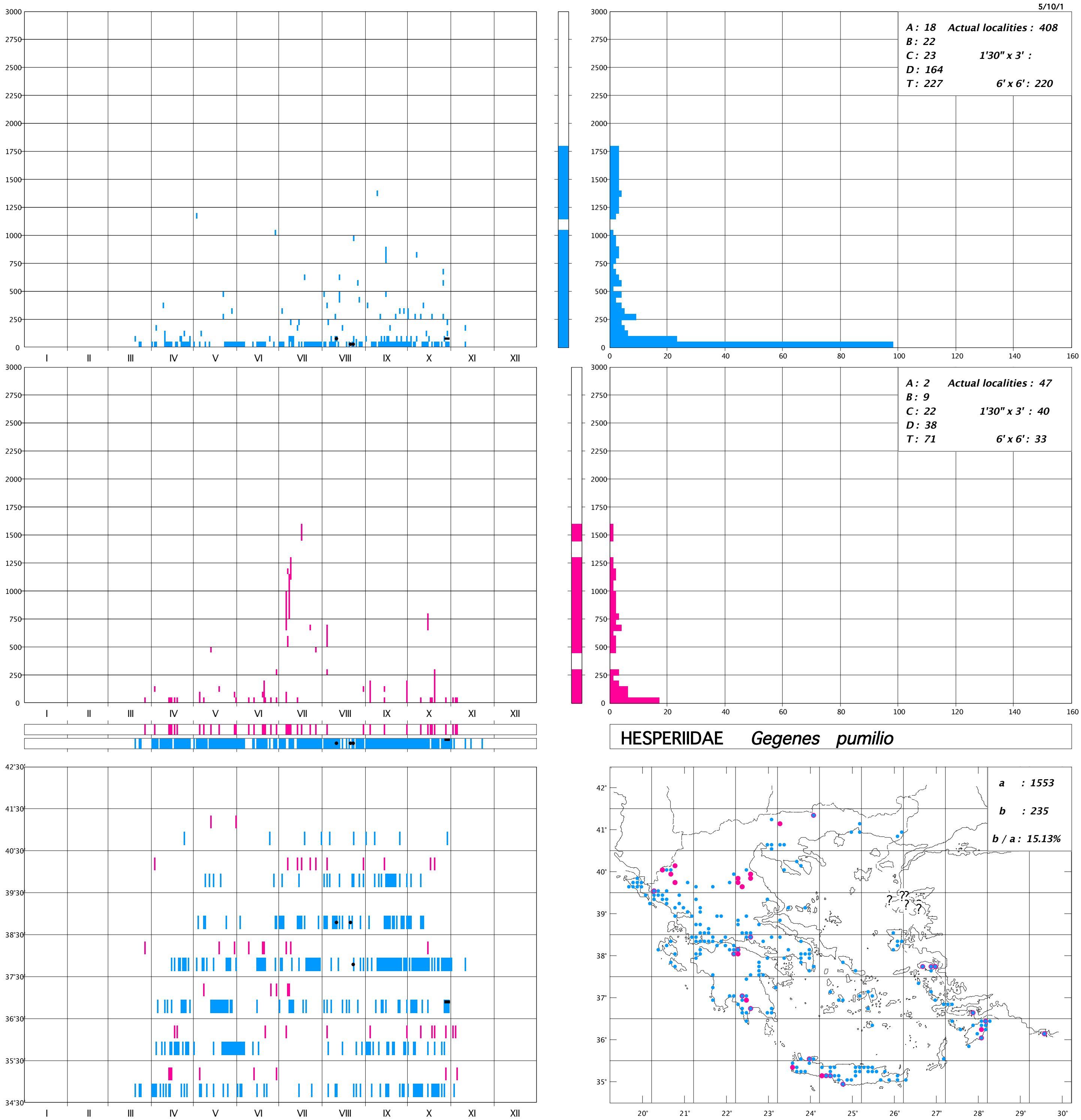


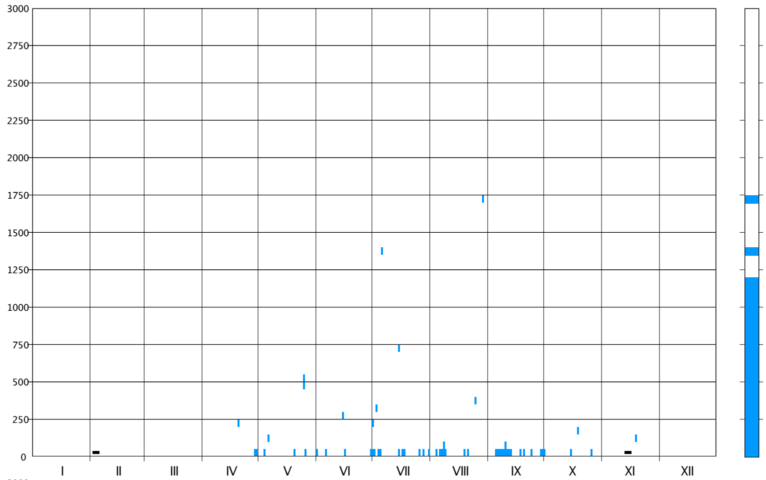
HESPERIIDAE *Ochlodes sylvanus*

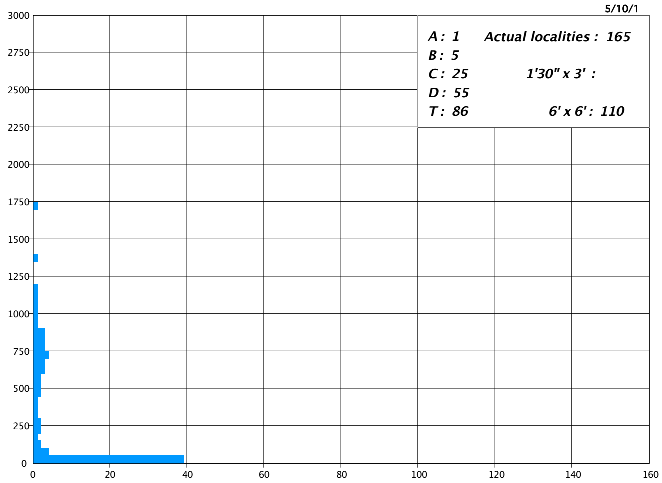


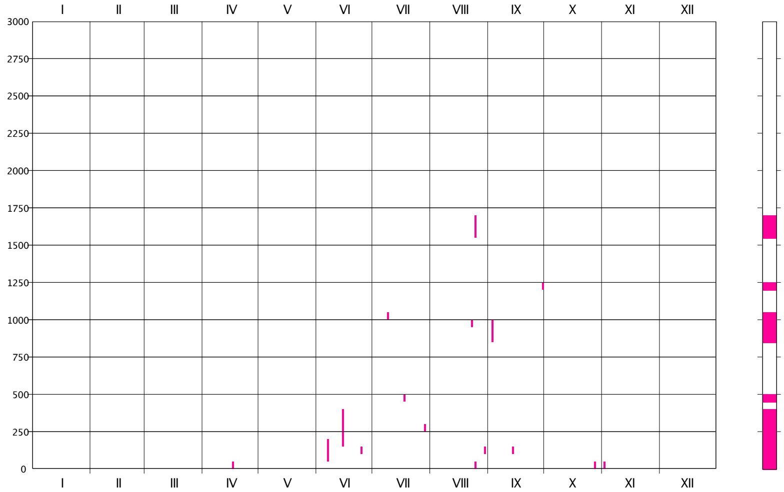


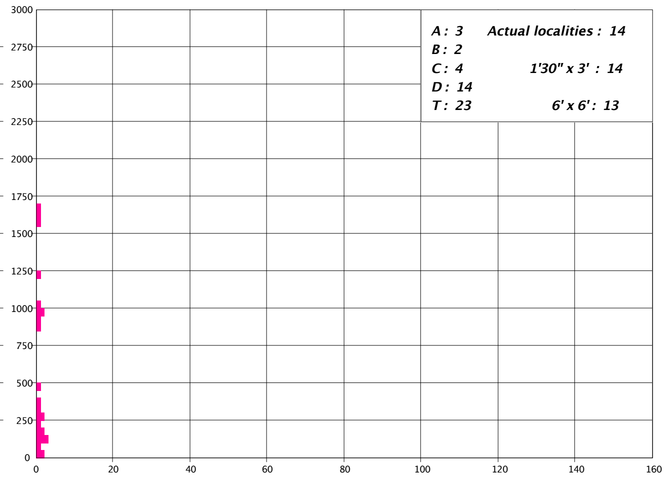


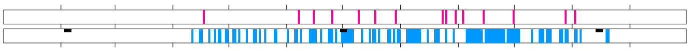
HESPERIIDAE *Gegenes pumilio*



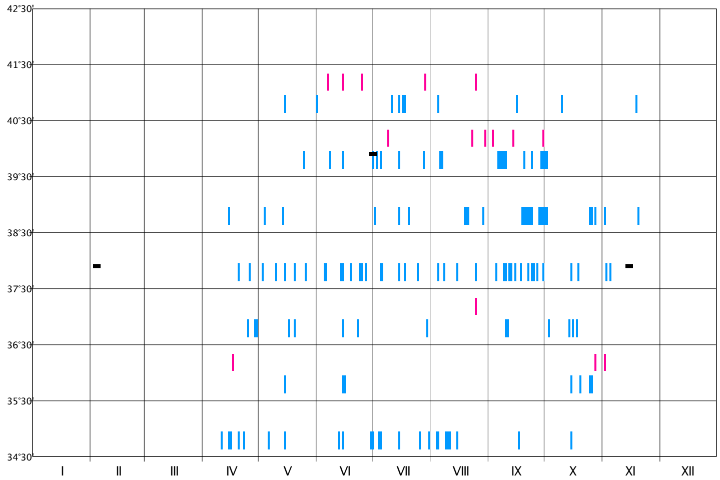


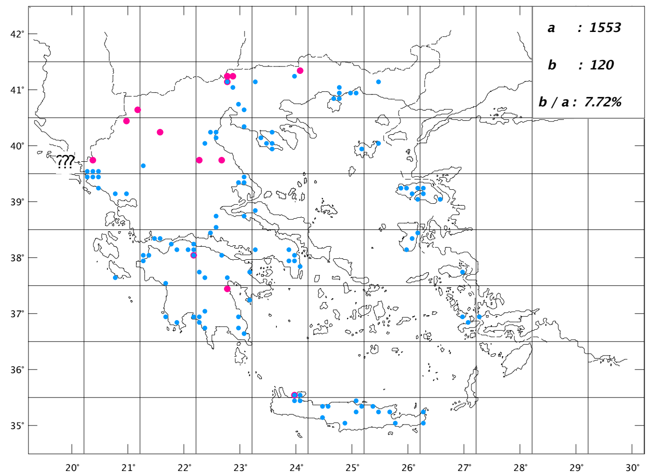


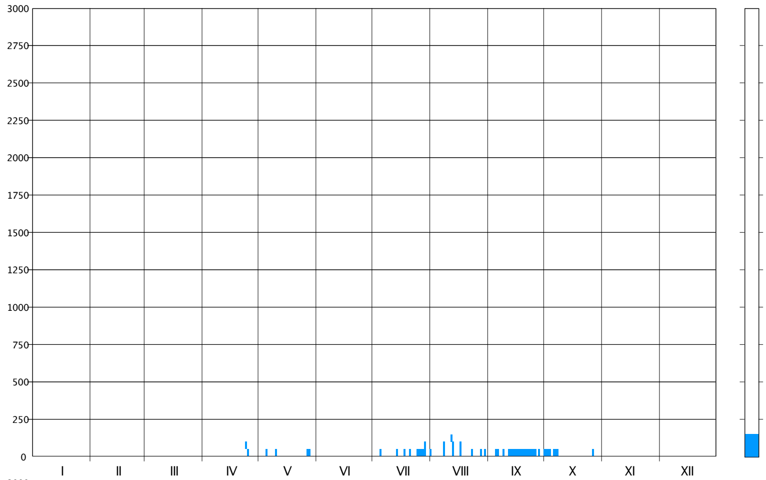


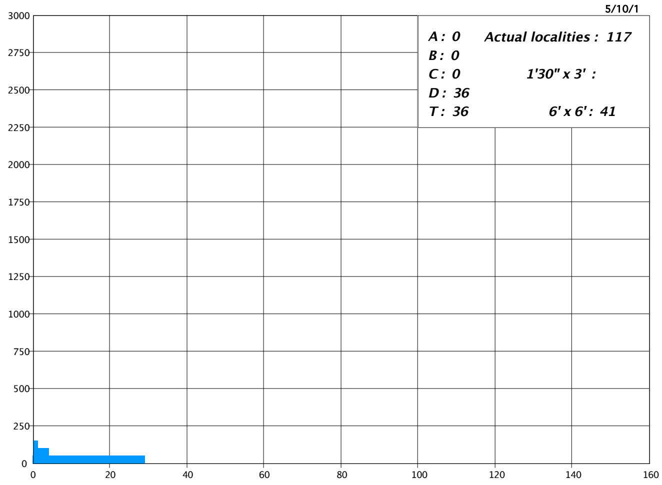


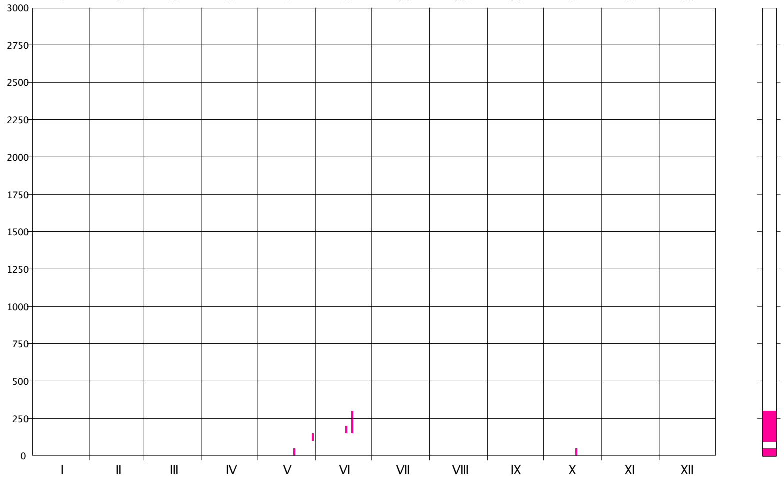
HESPERIIDAE *Gegenes nostrodamus*

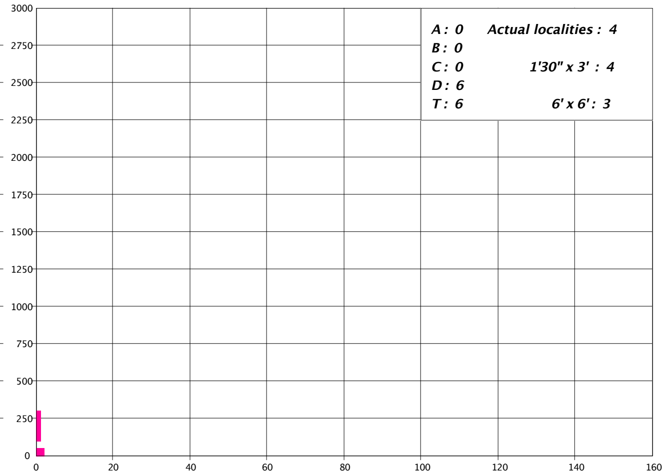


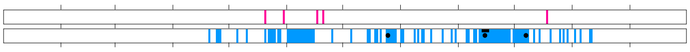




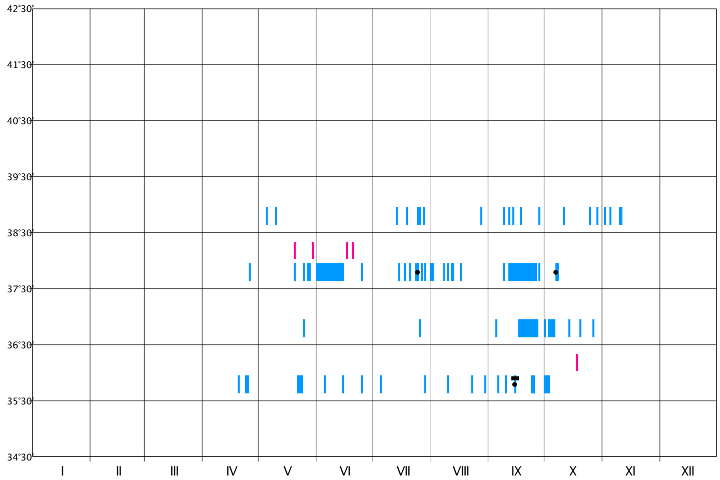


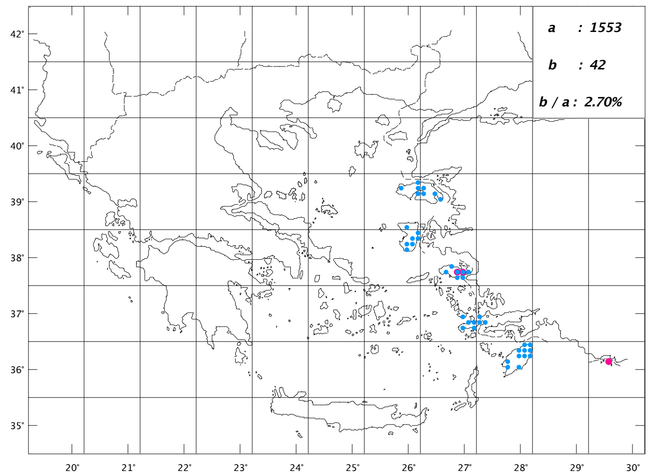


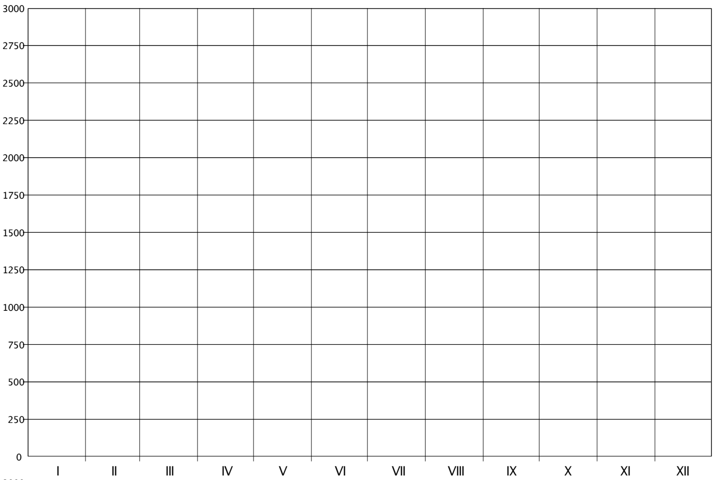


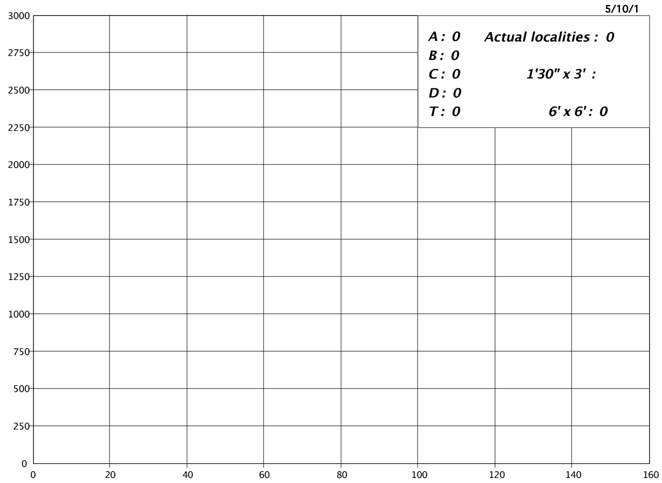


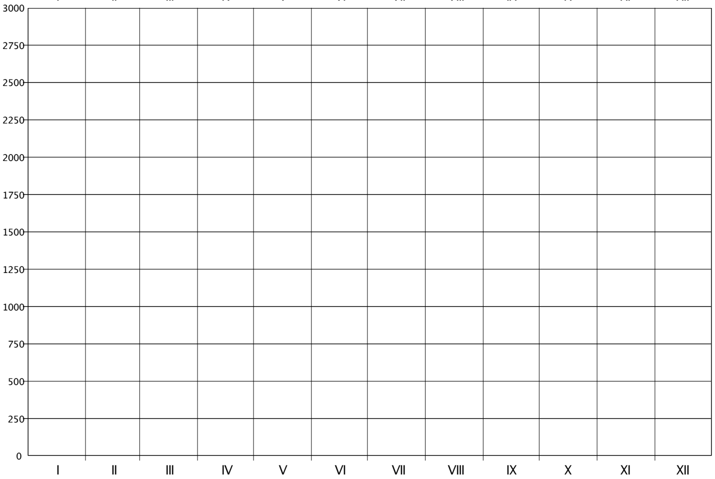
HESPERIIDAE *Pelopidas thrax*

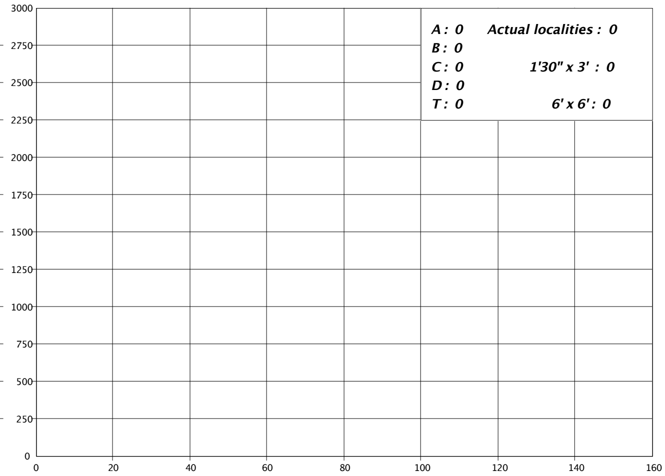




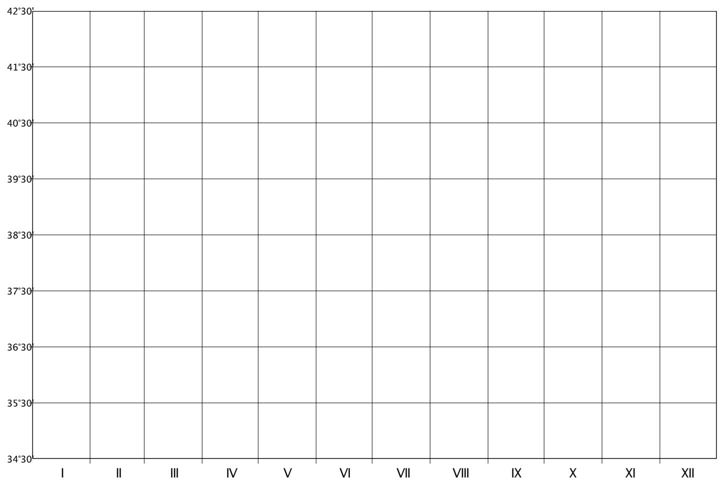


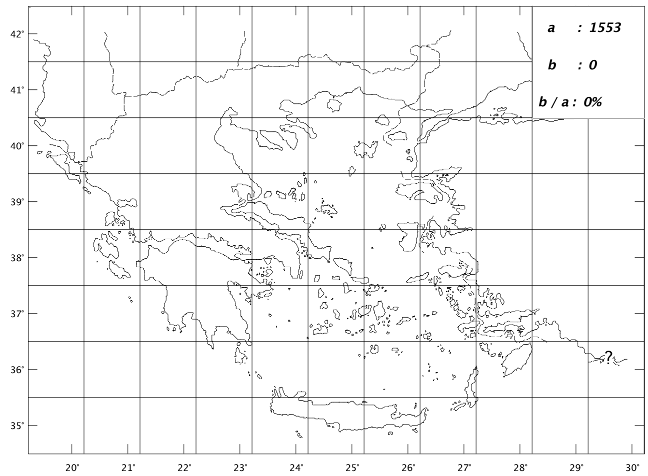


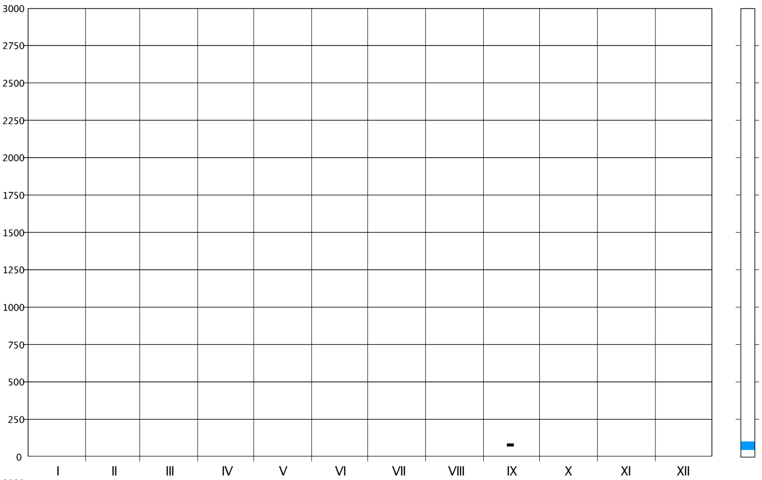


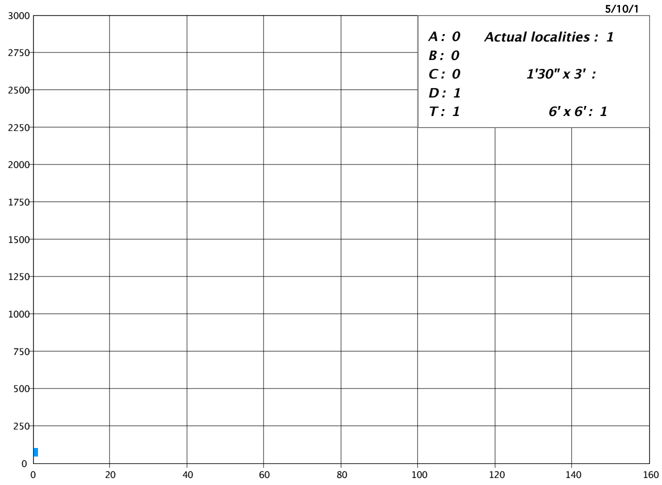


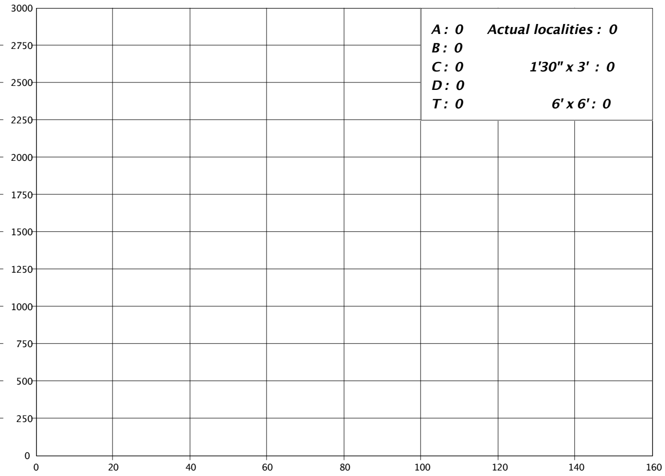
NYMPHALIDAE *Thaleropis ionia*

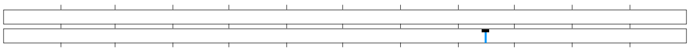












LYCAENIDAE *Deudorix livia*