

Diatom Monographs

Edited by
Andrzej WITKOWSKI

Vol. 1?

Maria Helena NOVAIS, Saúl BLANCO, Manuela
MORAIS, Lucien HOFFMANN & Luc ECTOR

Catalogue of continental diatoms
from Portugal, including the Archipelagos
of Azores and Madeira: updated nomenclature,
distribution and bibliography.

Volume 2: Distribution maps

A.R.G. Gantner Verlag K.G.

201?

Editor's address:

Prof. Dr. Andrzej WITKOWSKI
Institute of Marine Sciences
University of Szczecin
Waska 13
PL-71-415 Szczecin
Poland

e-mail: witkowski@univ.szczecin.pl
fax: +48 91 4441691

Catalogue of continental diatoms
from Portugal, including the Archipelagos of
Azores and Madeira: updated nomenclature,
distribution and bibliography.

Volume 2: Distribution maps

by

Maria Helena NOVAIS, Saúl BLANCO, Manuela
MORAIS, Lucien HOFFMANN & Luc ECTOR

A.R.G. Gantner Verlag K.G.

201?

Addresses of the authors:

Maria Helena Novais

Laboratório da Água
Universidade de Évora
Parque Industrial e Tecnológico
Rua da Barba Rala nº 1
P-7005-345 Évora, Portugal

Current address:

Department of Environment and Agro-biotechnologies (EVA)
Public Research Center - Gabriel Lippmann
Rue du Brill, 41
L-4422 Belvaux, Luxembourg
E-mail: novais@lippmann.lu

Saúl Blanco

Department of Biodiversity and Environmental Management
University of León
E-24071 León, Spain
E-mail: sblal@unileon.es

Manuela Morais

Laboratório da Água
Universidade de Évora
Parque Industrial e Tecnológico
Rua da Barba Rala nº 1
P-7005-345 Évora, Portugal
E-mail: mmorais@uevora.pt

Lucien Hoffmann and Luc Ector

Department of Environment and Agro-biotechnologies (EVA)
Public Research Center - Gabriel Lippmann
Rue du Brill, 41
L-4422 Belvaux, Luxembourg
E-mail: hoffmann@lippmann.lu; ector@lippmann.lu

ISBN

A.R.G. Gantner Verlag Kommanditgesellschaft, FL 9491 Ruggell

Distributed by

Koeltz Scientific Books. Herrnwaldstr. 6. D-61462 Königstein / Germany
Fax: (+49) 6174 937240 . E-mail: koeltz@t-online.de
Phone: (+49) 6174 93720
Internet: <http://www.koeltz.com>

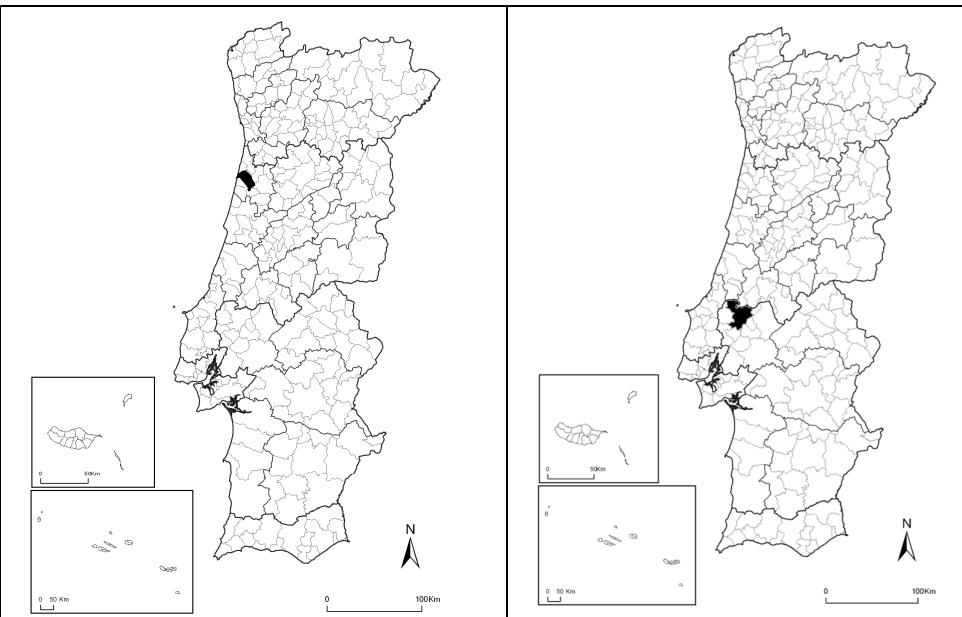


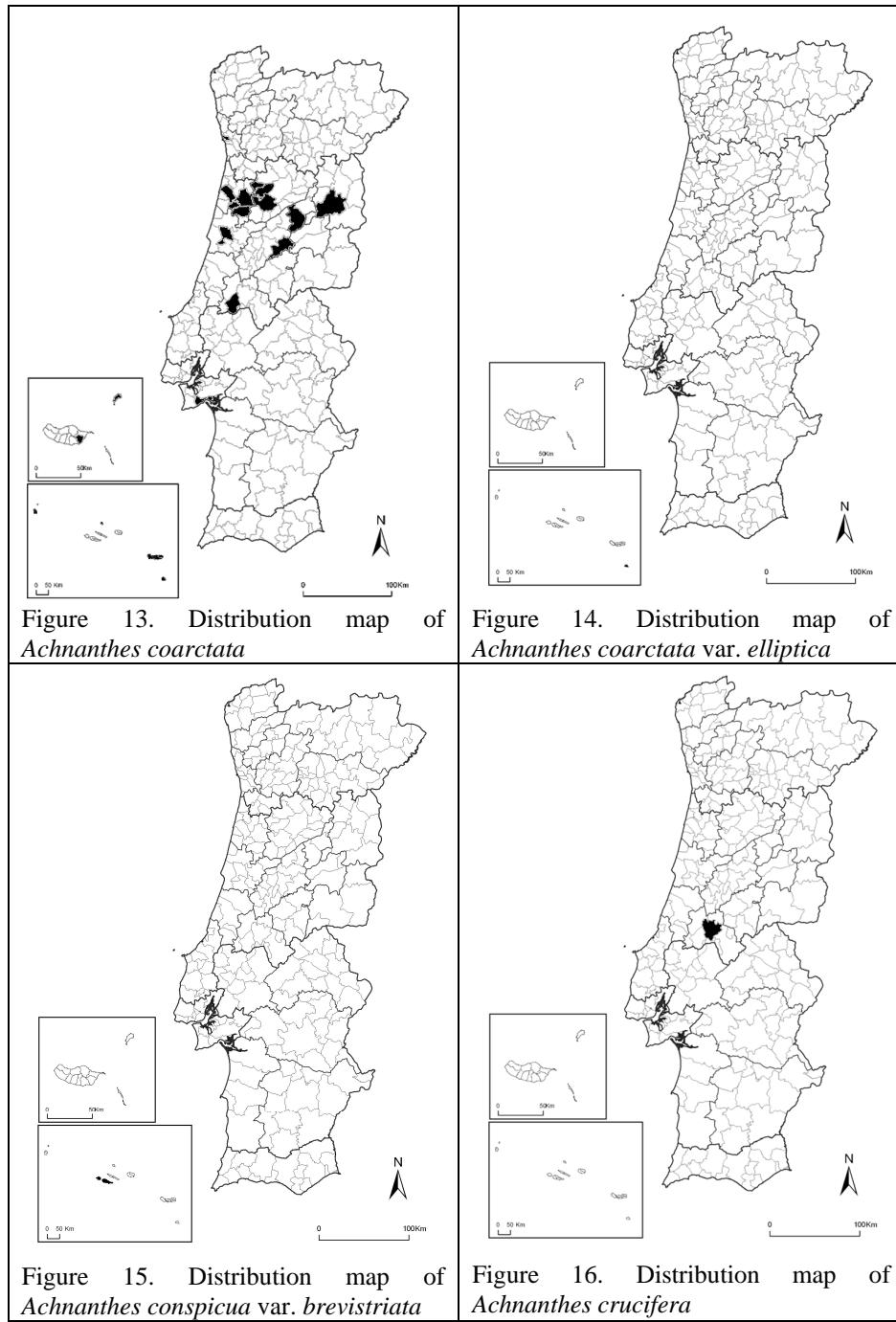
Figure 9. Distribution map of *Acanthoceras zachariasii*

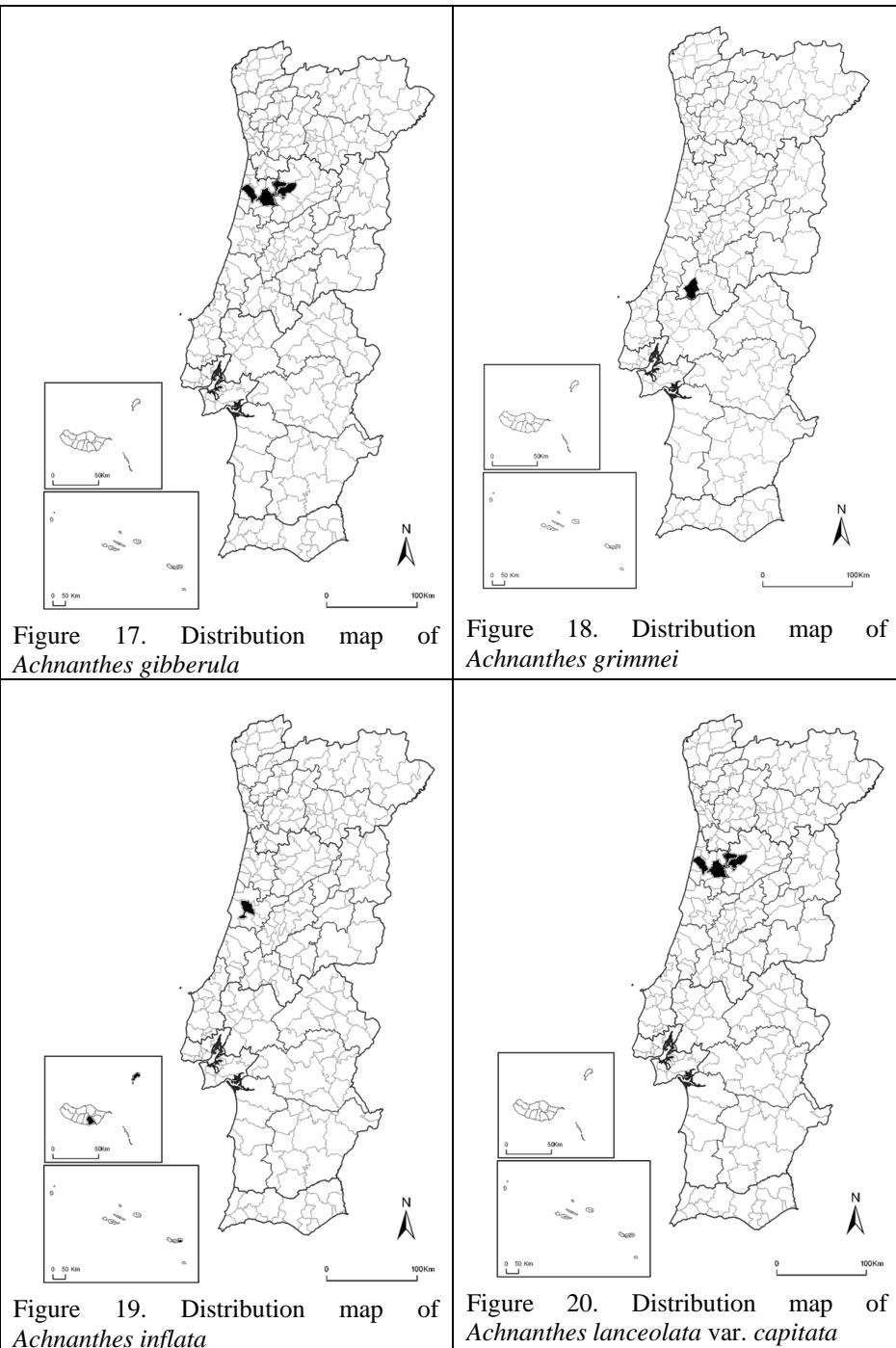
Figure 10. Distribution map of *Achnanthes brevipes*

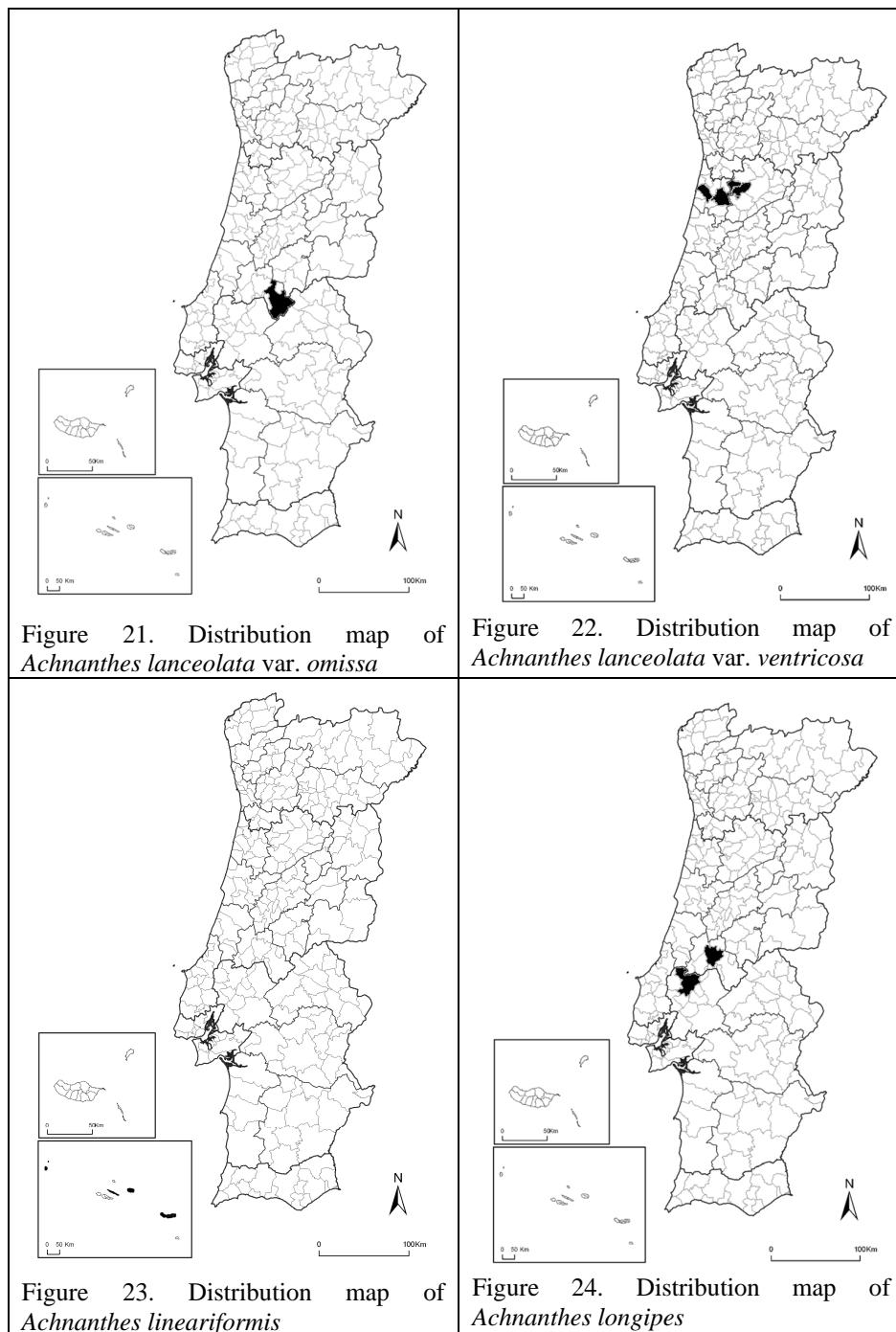


Figure 11. Distribution map of *Achnanthes brevipes* var. *intermedia*

Figure 12. Distribution map of *Achnanthes brevipes* var. *minor*







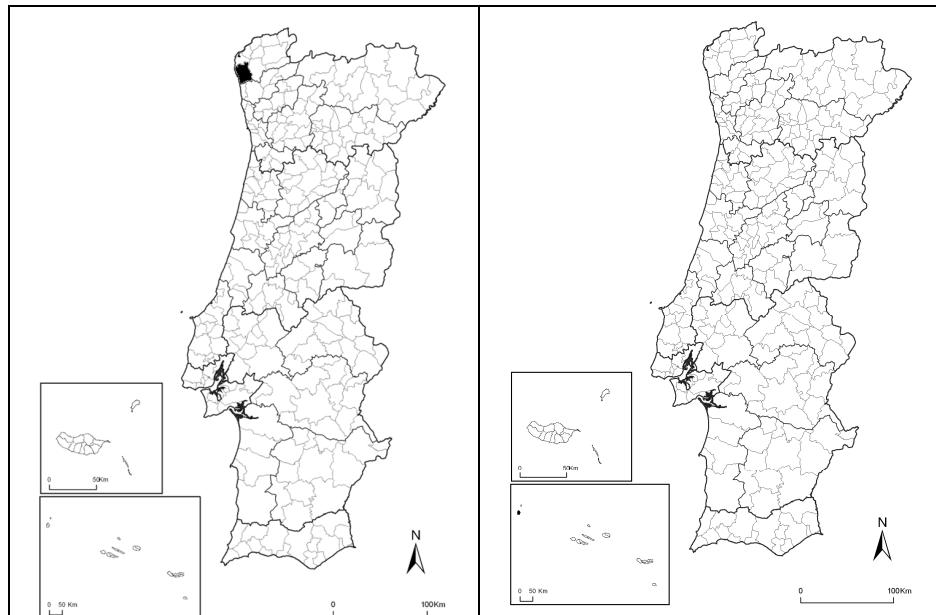


Figure 25. Distribution map of *Achnanthes longipes* f. *lata*

Figure 26. Distribution map of *Achnanthes lutheri*

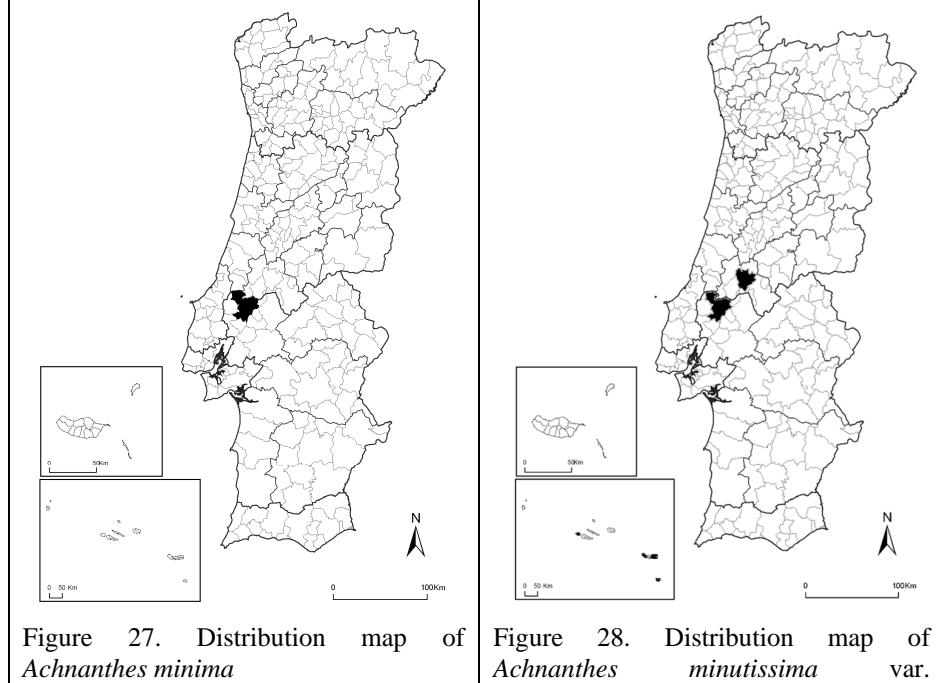
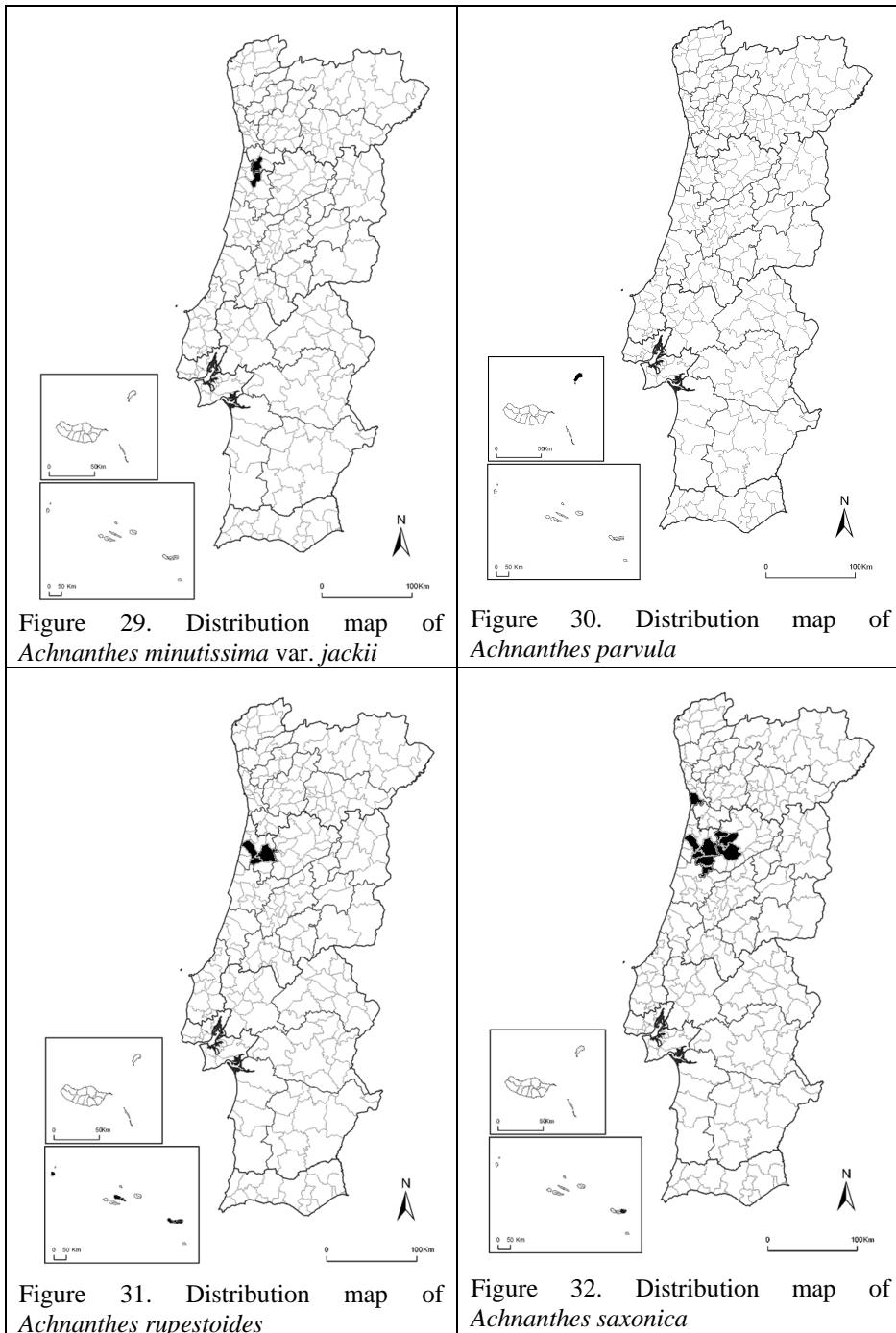
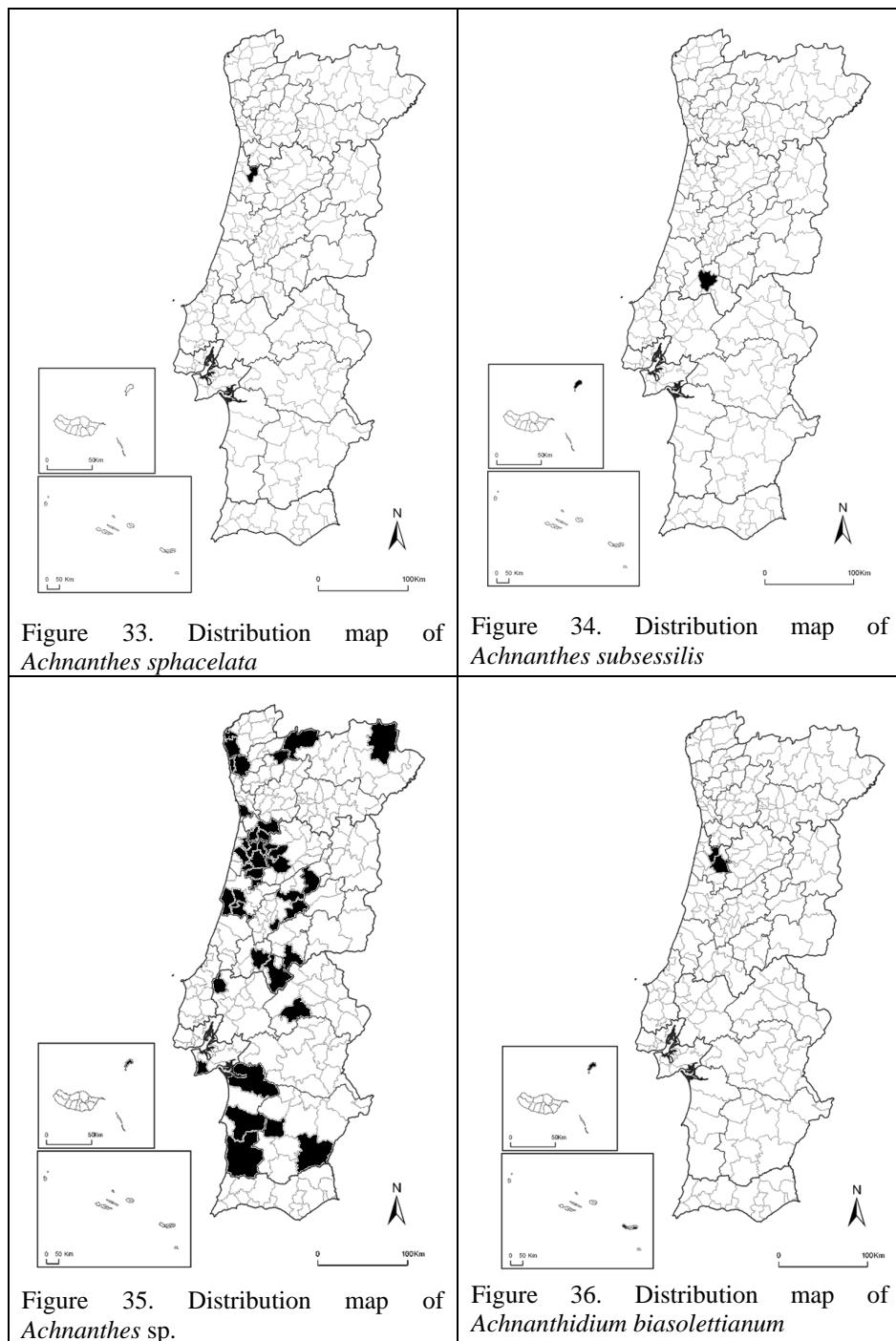
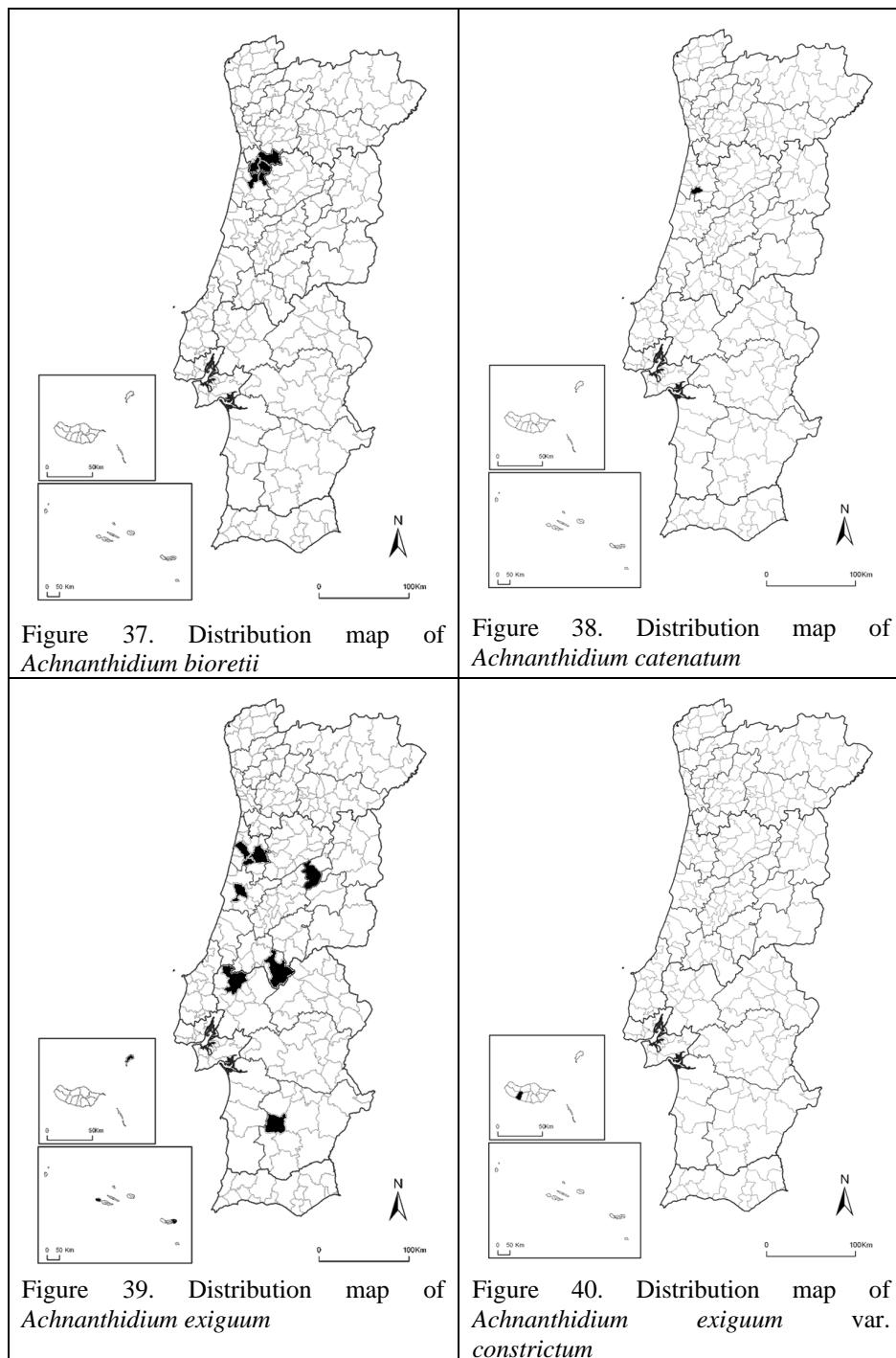


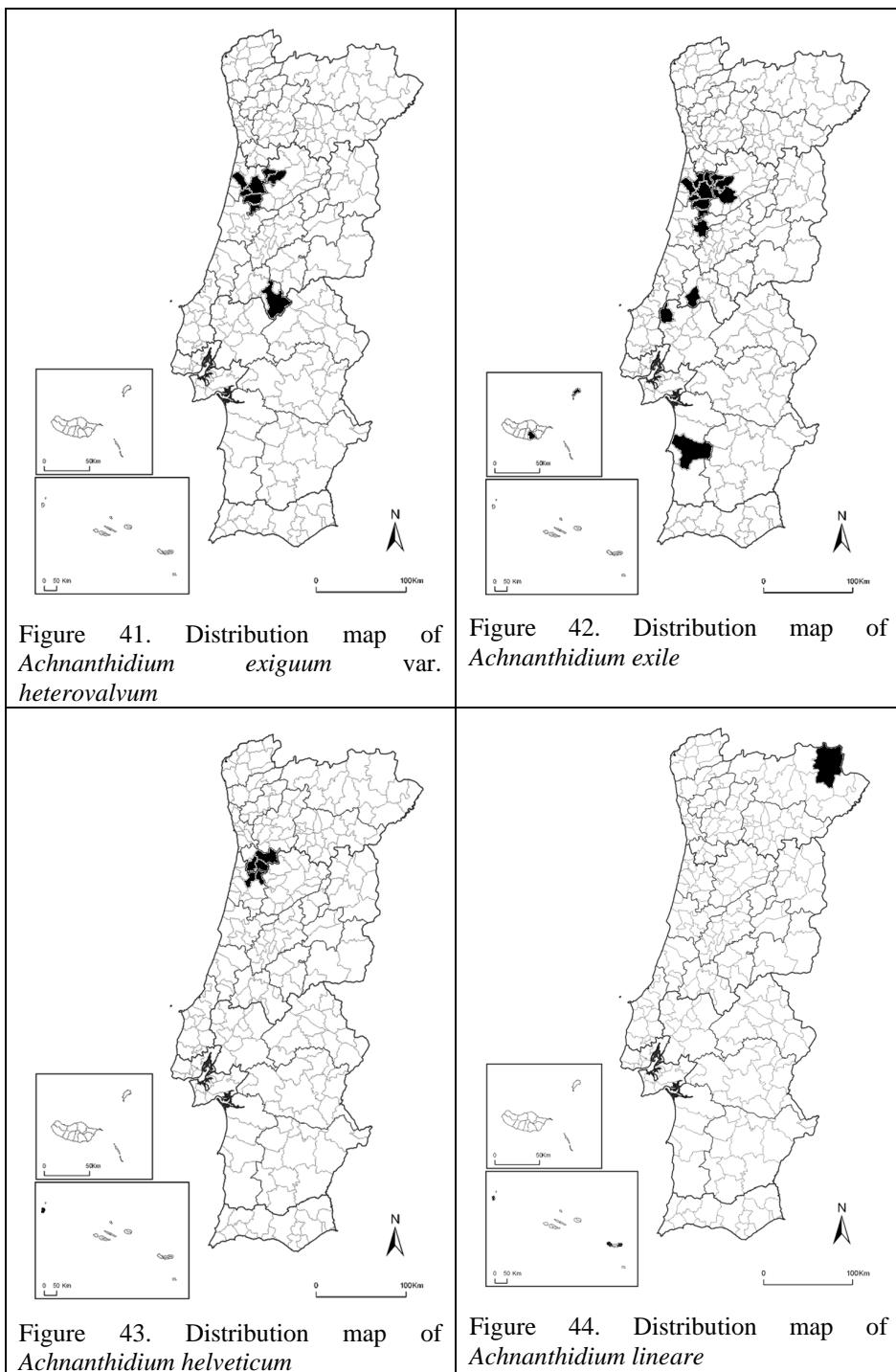
Figure 27. Distribution map of *Achnanthes minima*

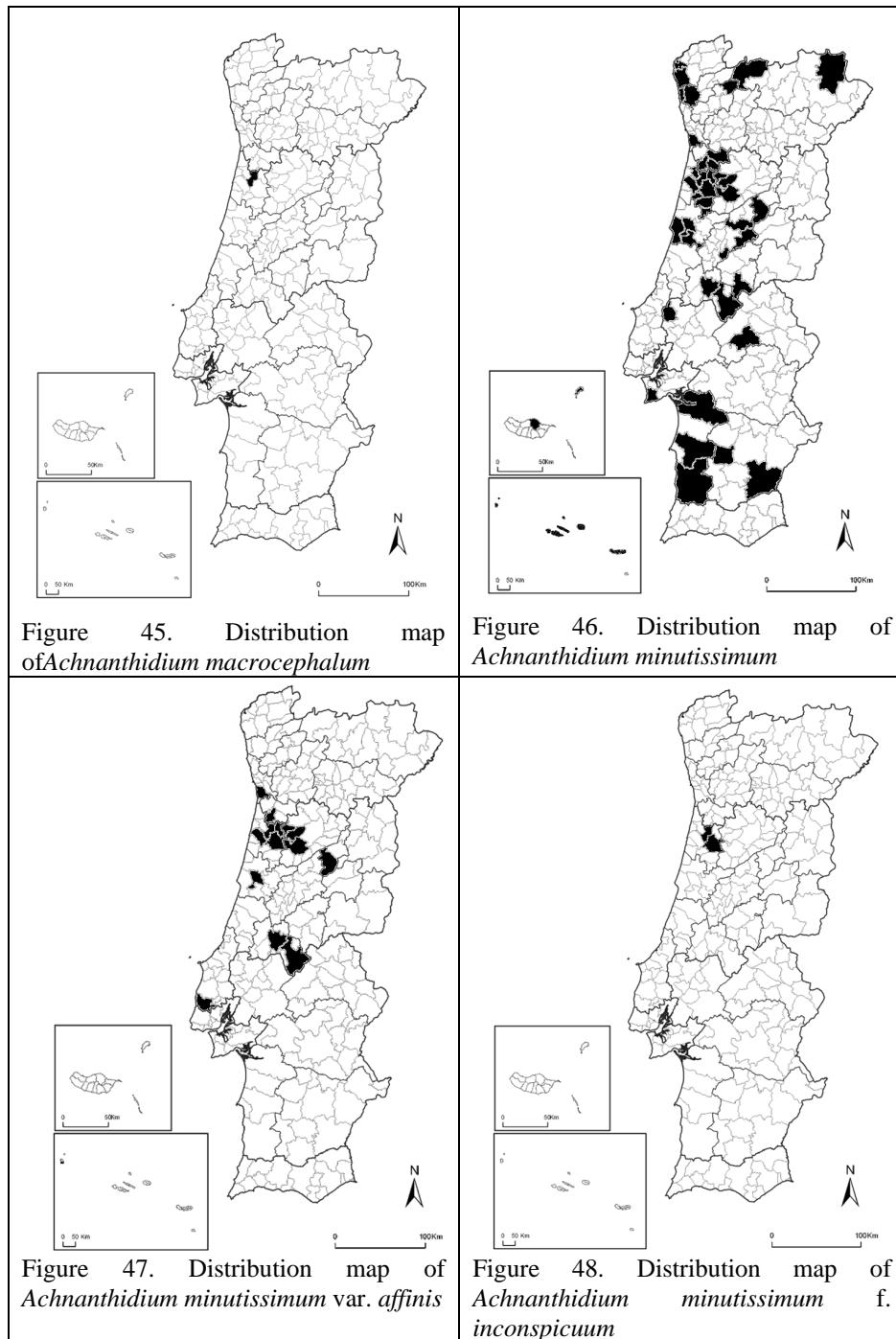
Figure 28. Distribution map of *Achnanthes minutissima* var. *cryptocephala*











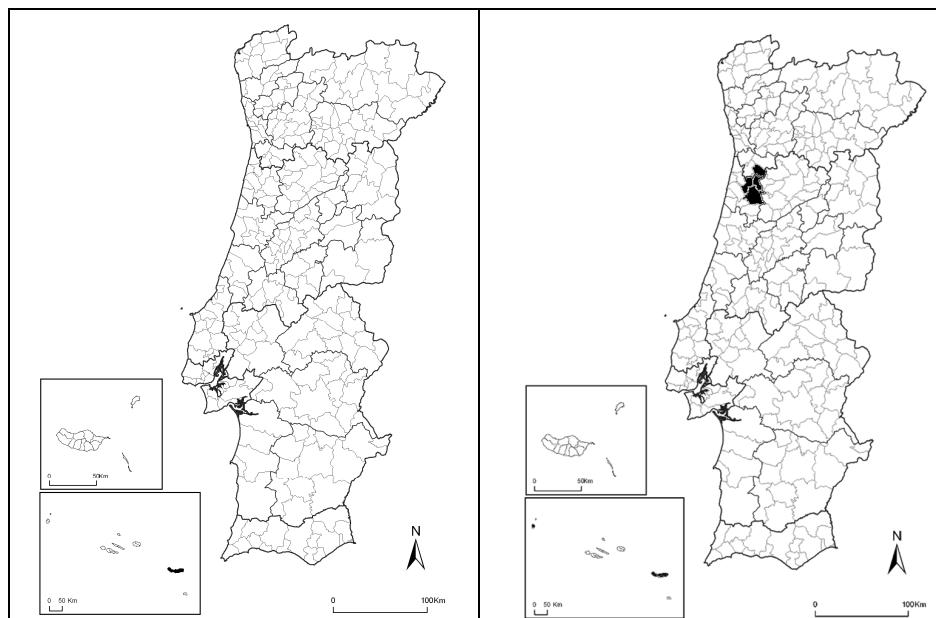


Figure 49. Distribution map of *Achnanthidium rosenstockii*

Figure 50. Distribution map of *Achnanthidium saprophilum*

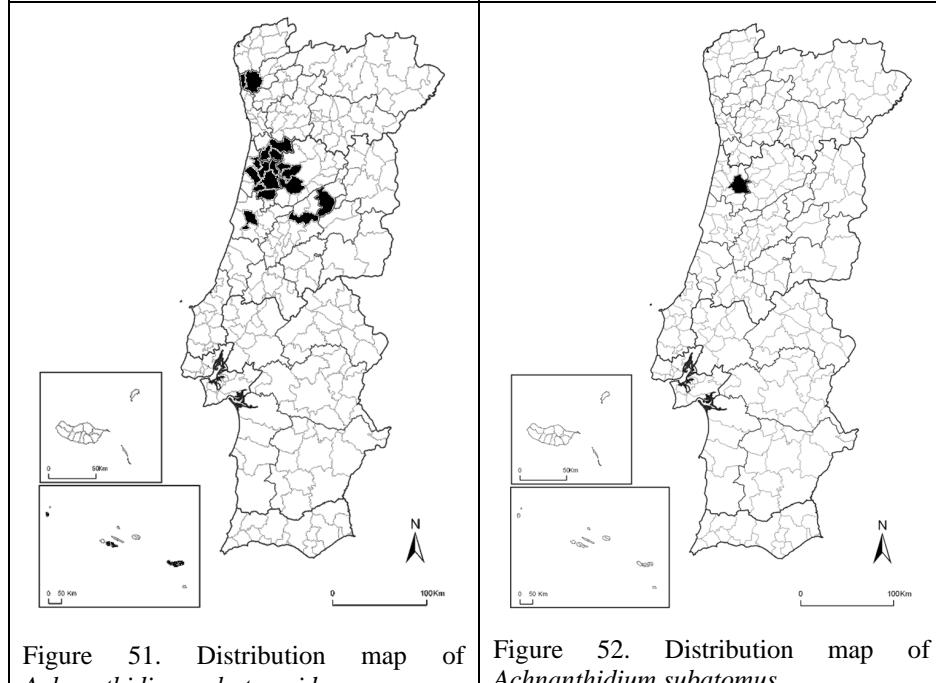


Figure 51. Distribution map of *Achnanthidium subatomoides*

Figure 52. Distribution map of *Achnanthidium subatomus*

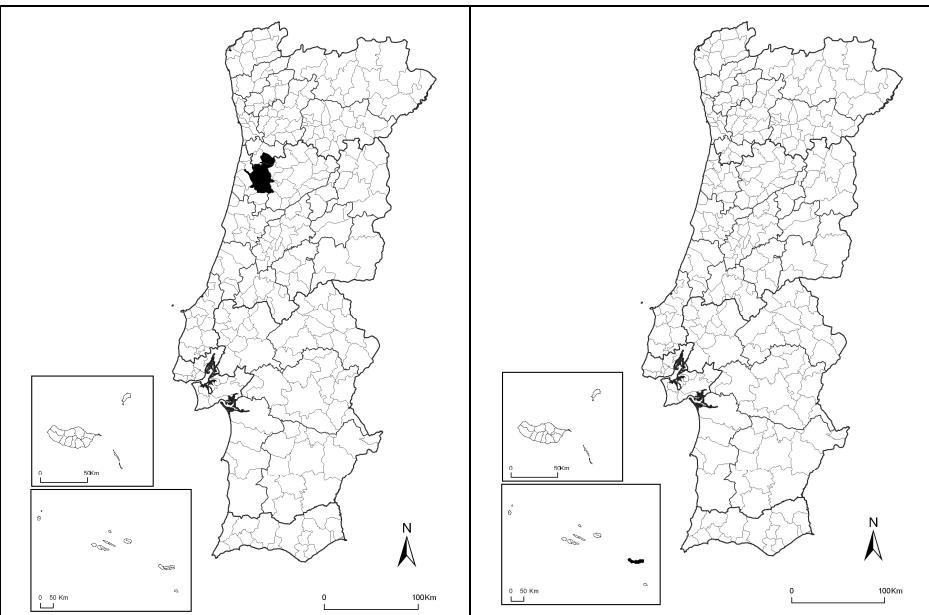


Figure 53. Distribution map of *Achnanthidium subhudsonis*

Figure 54. Distribution map of *Achnanthidium thermale*

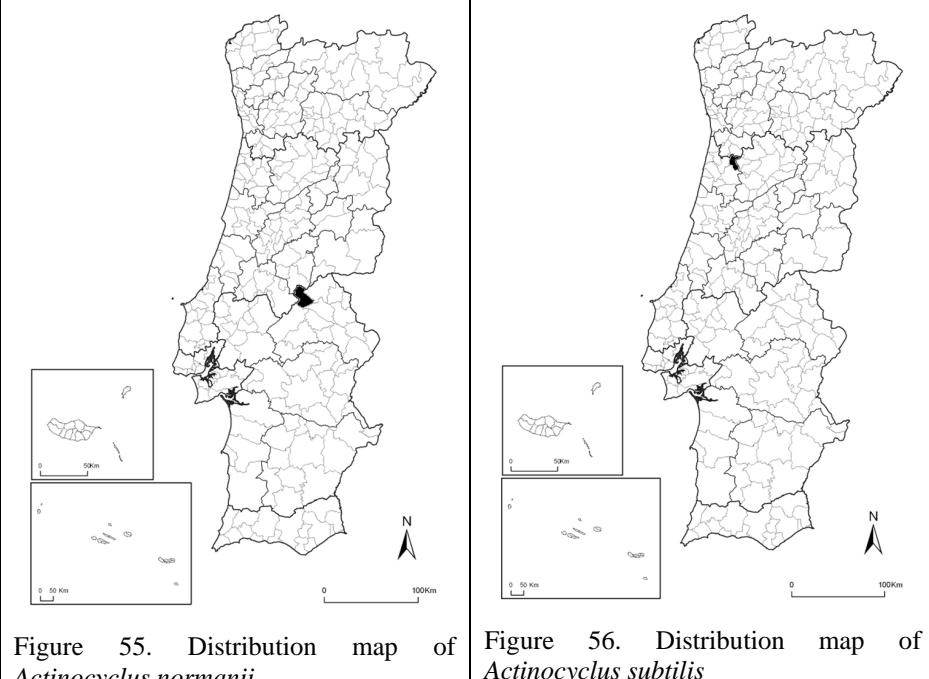


Figure 55. Distribution map of *Actinocyclus normanii*

Figure 56. Distribution map of *Actinocyclus subtilis*

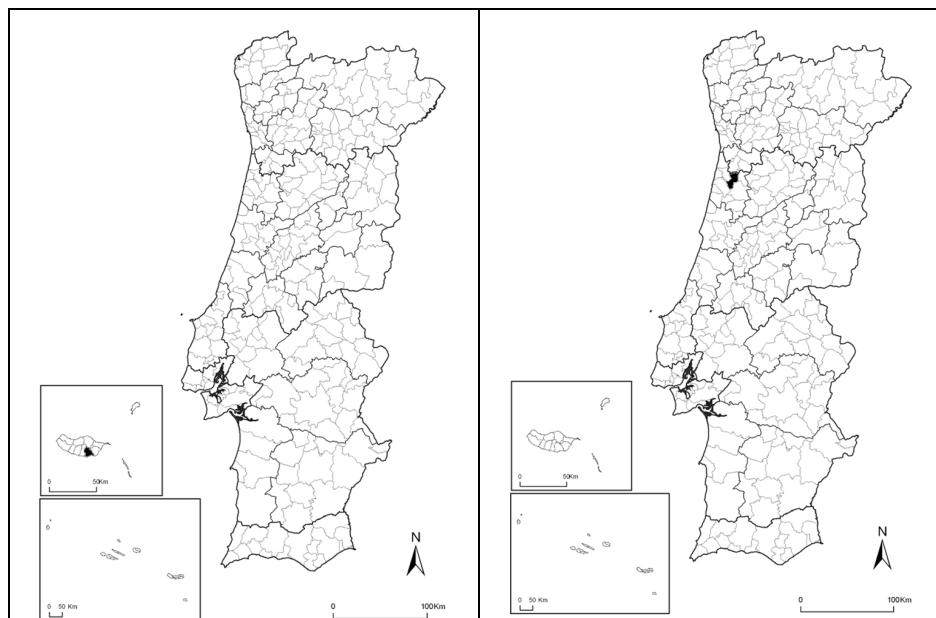


Figure 57. Distribution map of *Actinoptychus undulatus*

Figure 58. Distribution map of *Actinoptychus* sp.

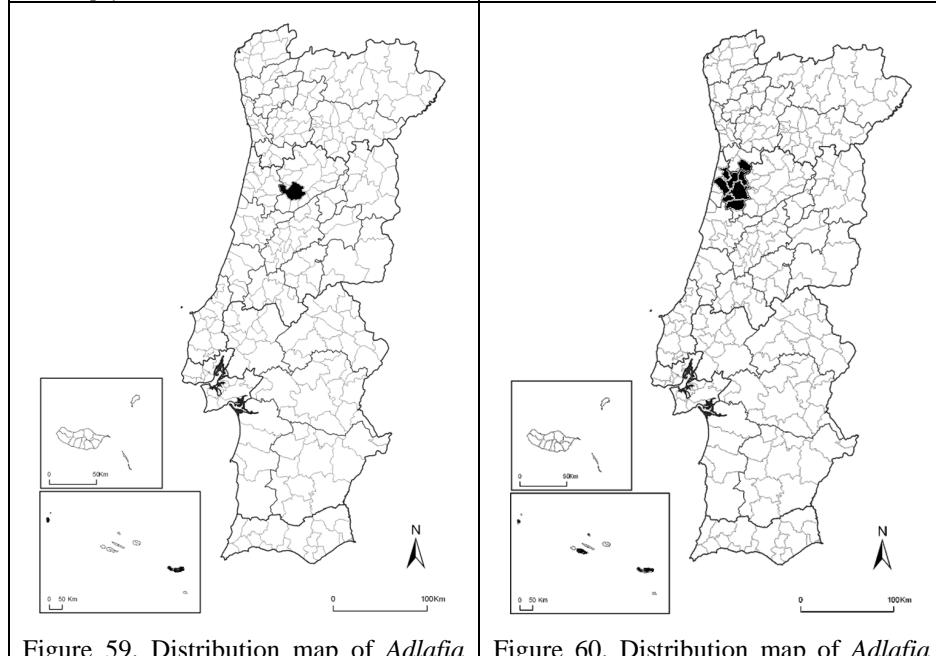
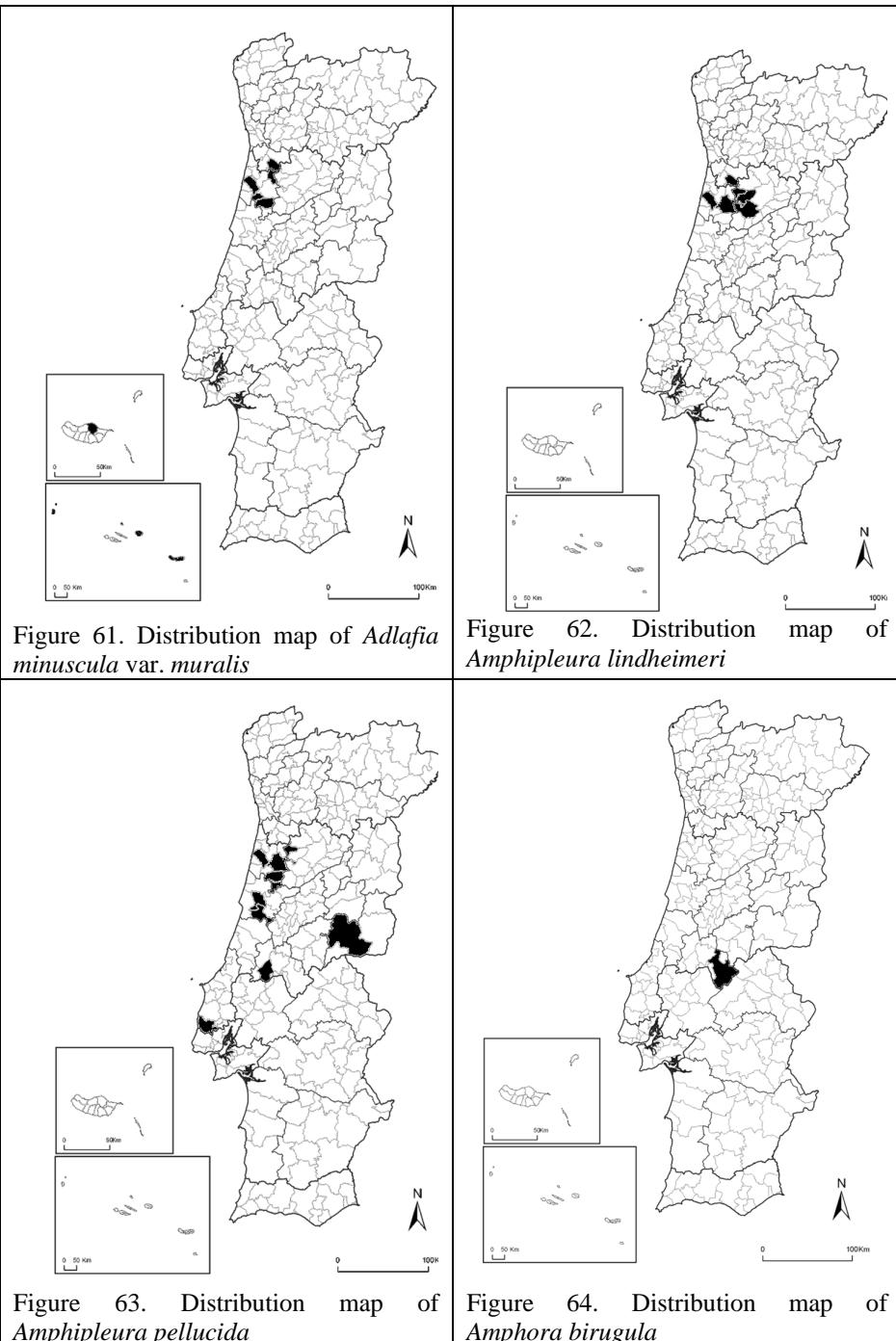


Figure 59. Distribution map of *Adlafia bryophila*

Figure 60. Distribution map of *Adlafia minuscula*



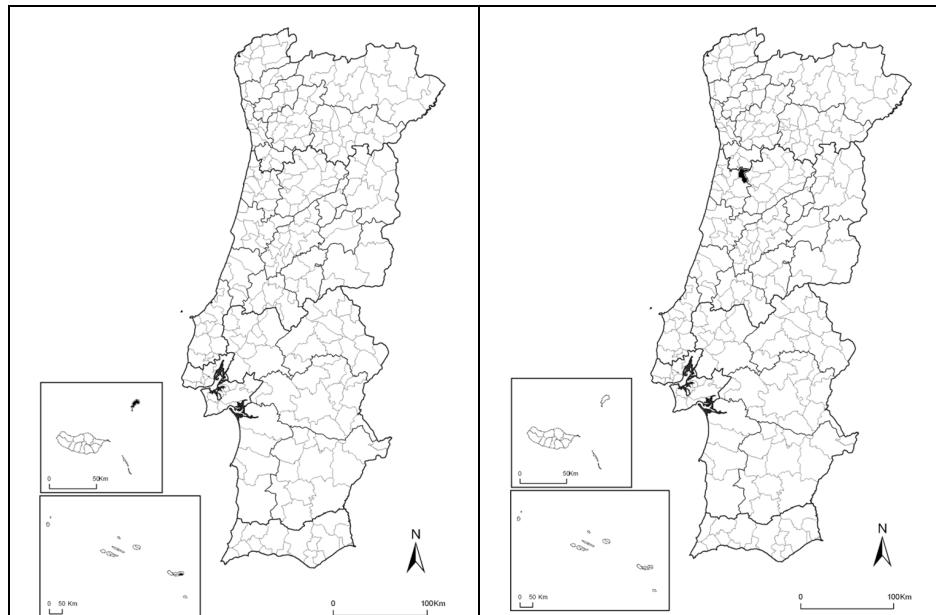


Figure 65. Distribution map of *Amphora coffeaeformis* var. *acutiuscula*

Figure 66. Distribution map of *Amphora copulata*

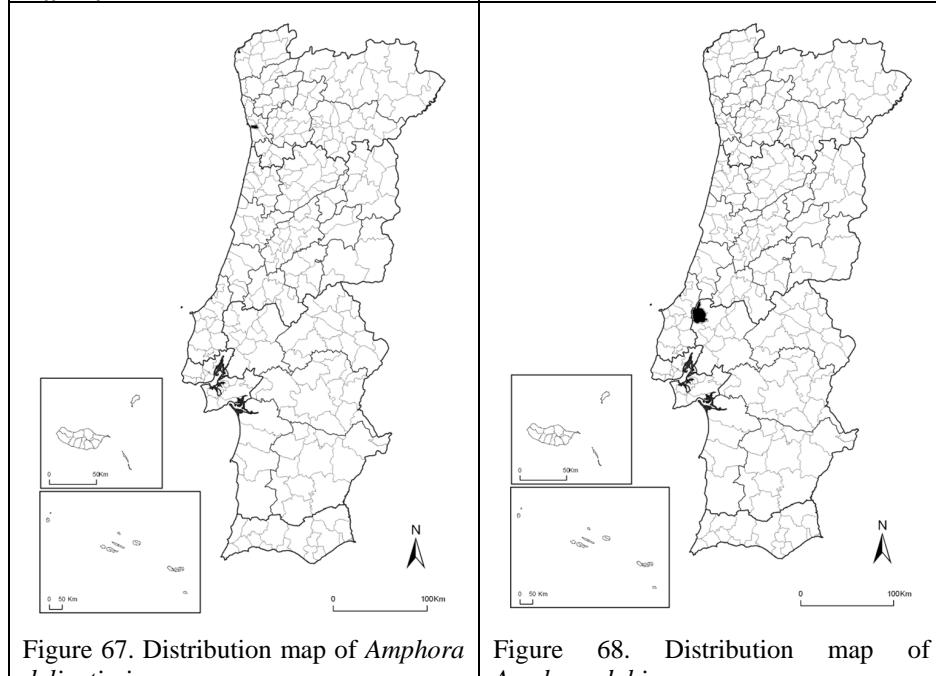


Figure 67. Distribution map of *Amphora delicatissima*

Figure 68. Distribution map of *Amphora dubia*

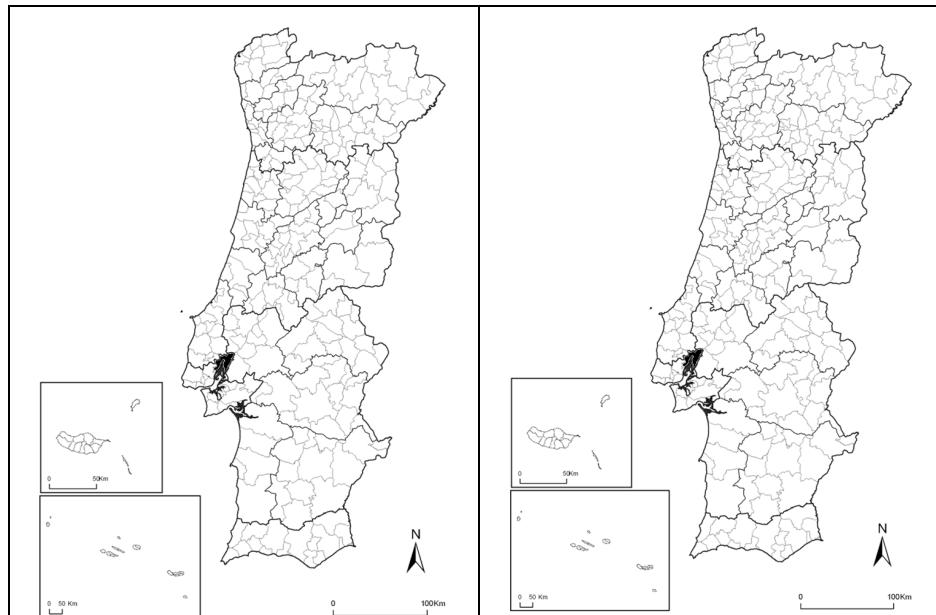


Figure 69. Distribution map of *Amphora exigua*

Figure 70. Distribution map of *Amphora fogediana*

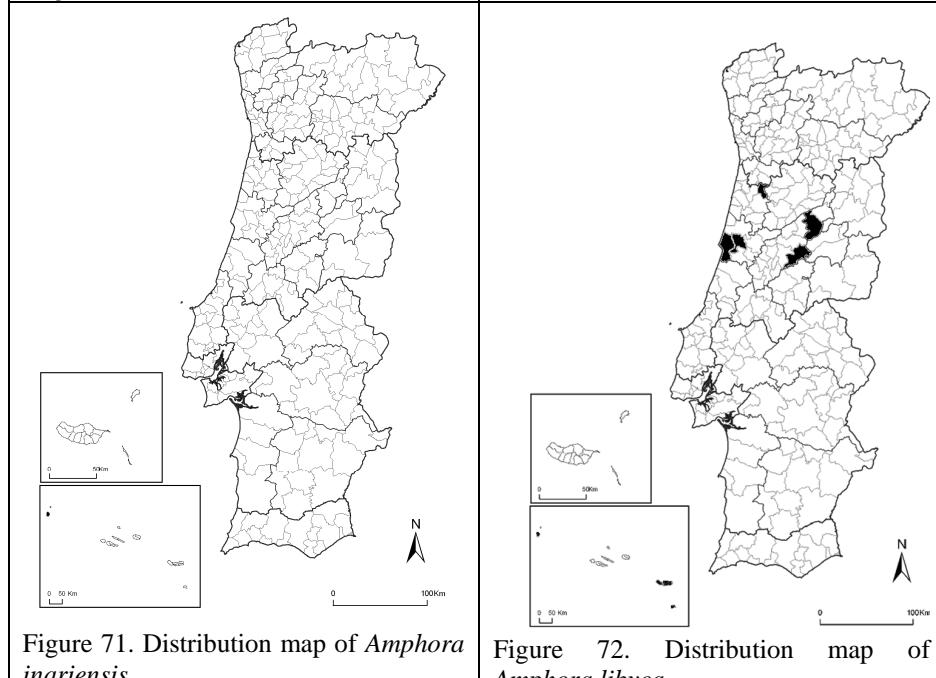


Figure 71. Distribution map of *Amphora inariensis*

Figure 72. Distribution map of *Amphora libyca*

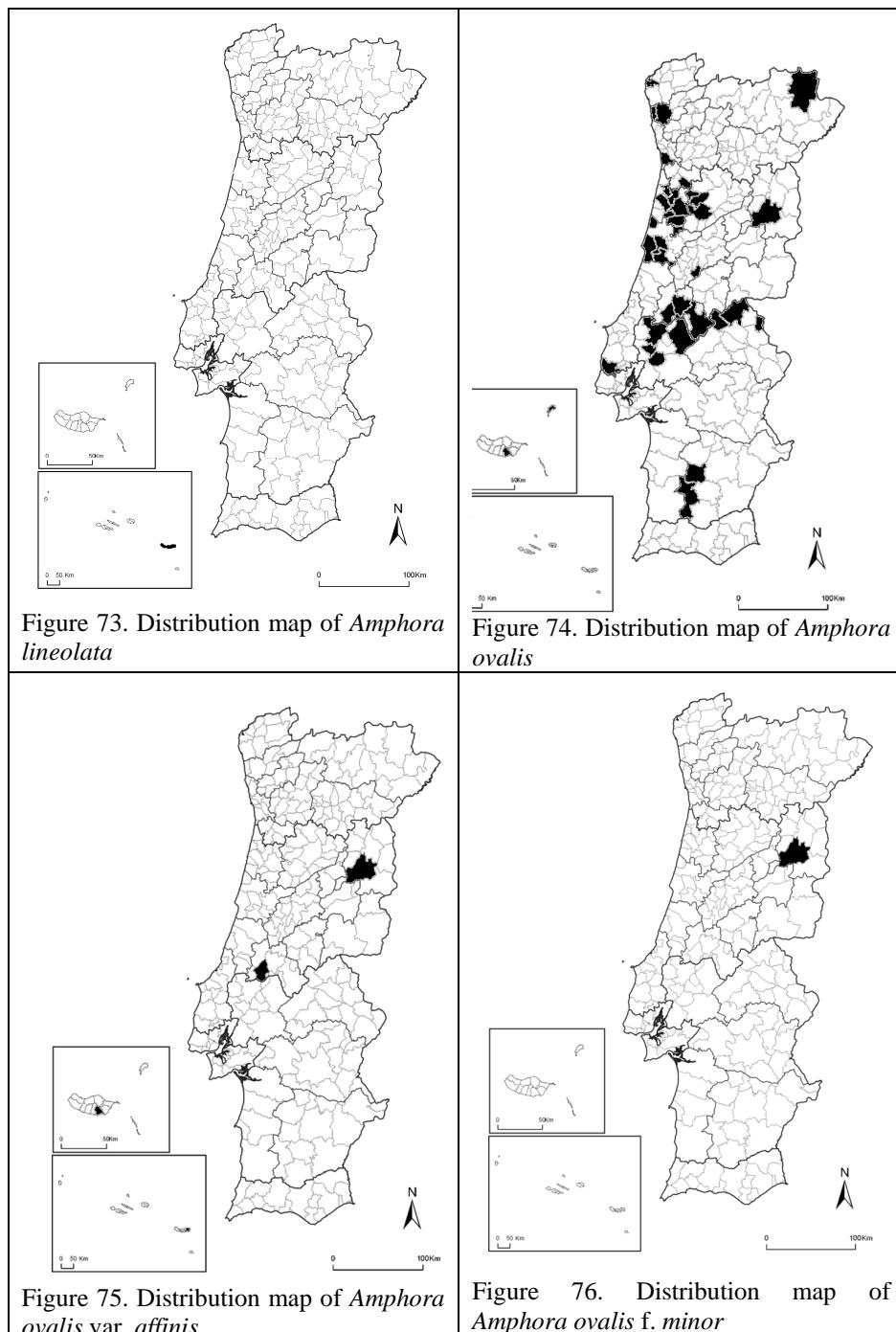


Figure 73. Distribution map of *Amphora lineolata*

Figure 74. Distribution map of *Amphora ovalis*

Figure 75. Distribution map of *Amphora ovalis* var. *affinis*

Figure 76. Distribution map of *Amphora ovalis* f. *minor*

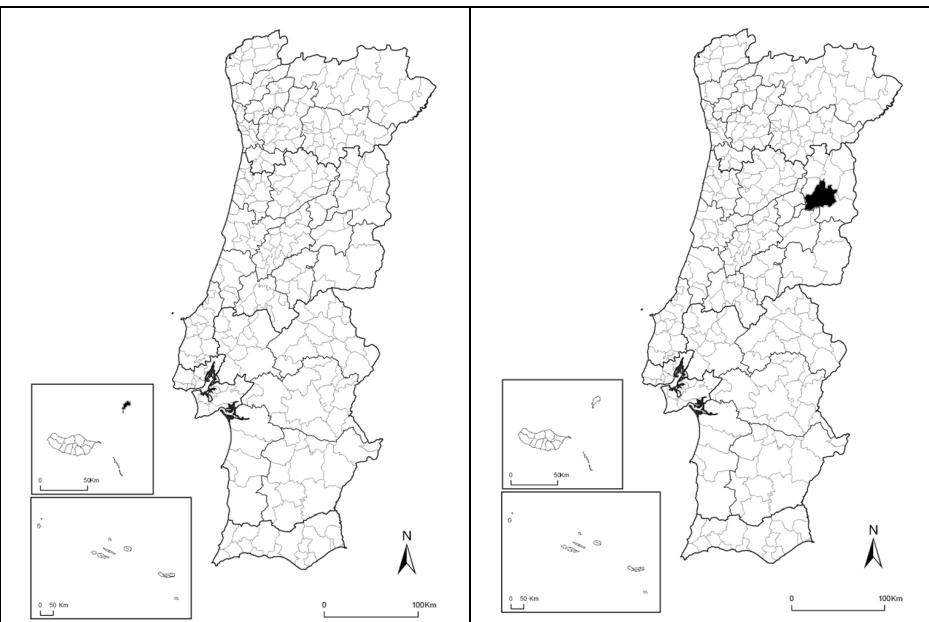


Figure 77. Distribution map of *Amphora ovalis* var. *gracilis*

Figure 78. Distribution map of *Amphora ovalis* var. *minor*

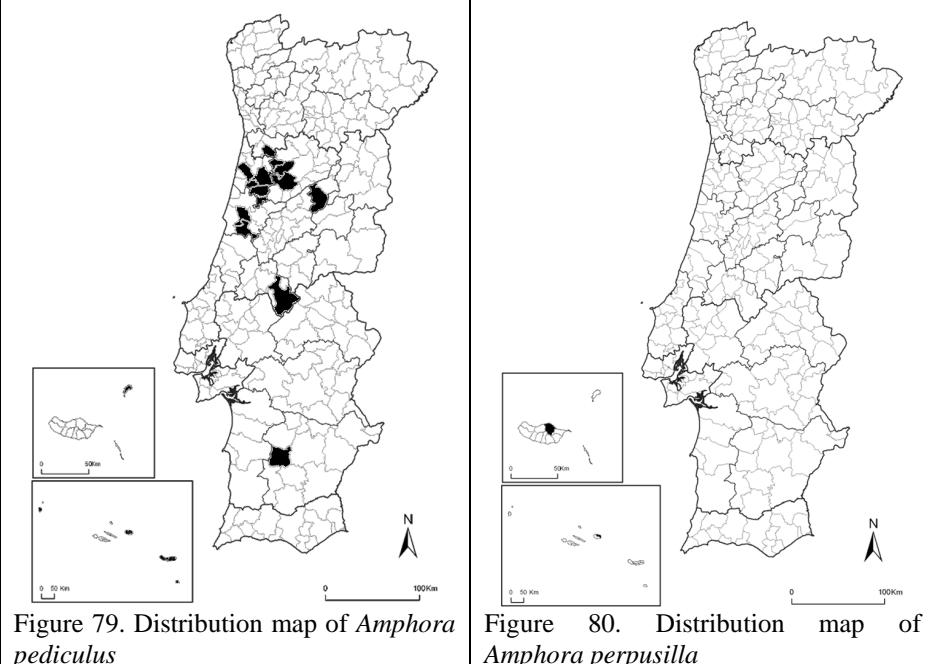


Figure 79. Distribution map of *Amphora pediculus*

Figure 80. Distribution map of *Amphora perpusilla*

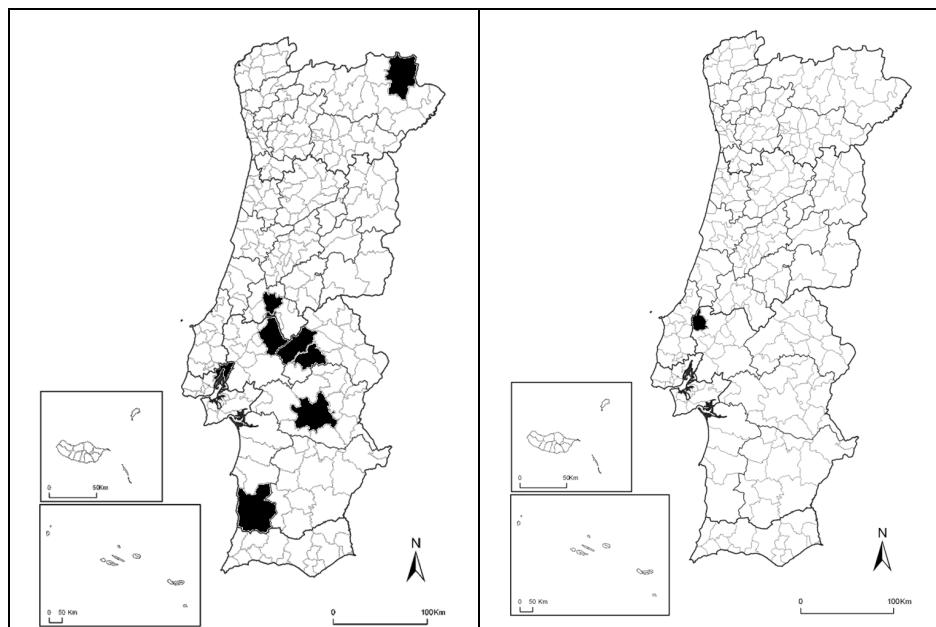


Figure 81. Distribution map of *Amphora lineolata*

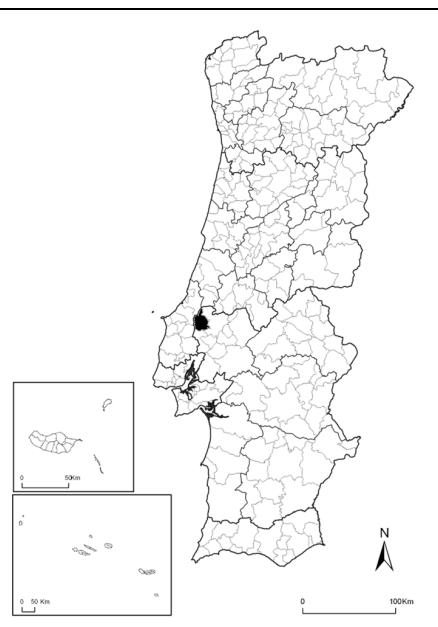


Figure 82. Distribution map of *Aneumastus laetus*

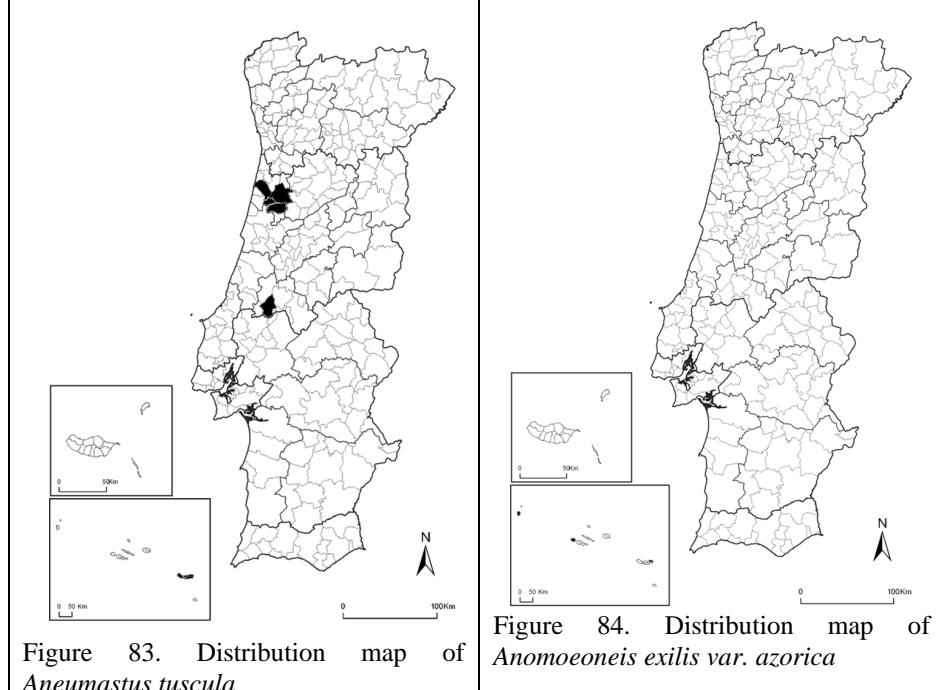


Figure 83. Distribution map of *Aneumastus tuscula*

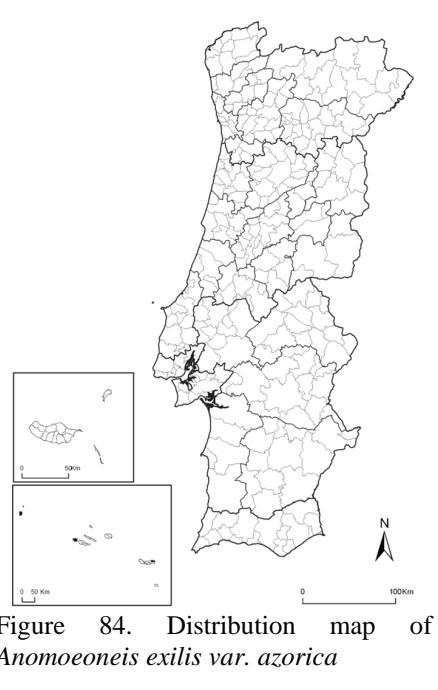
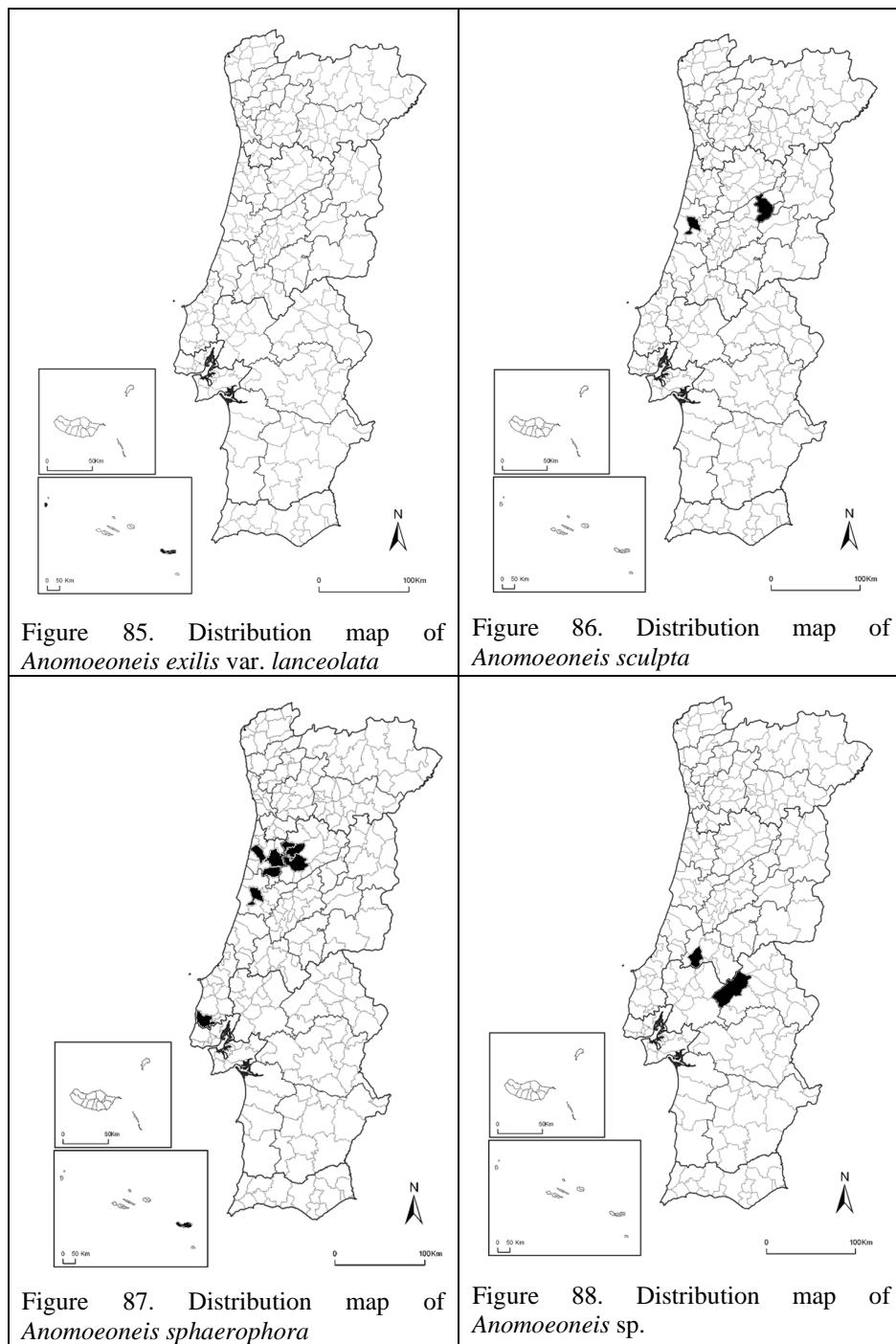
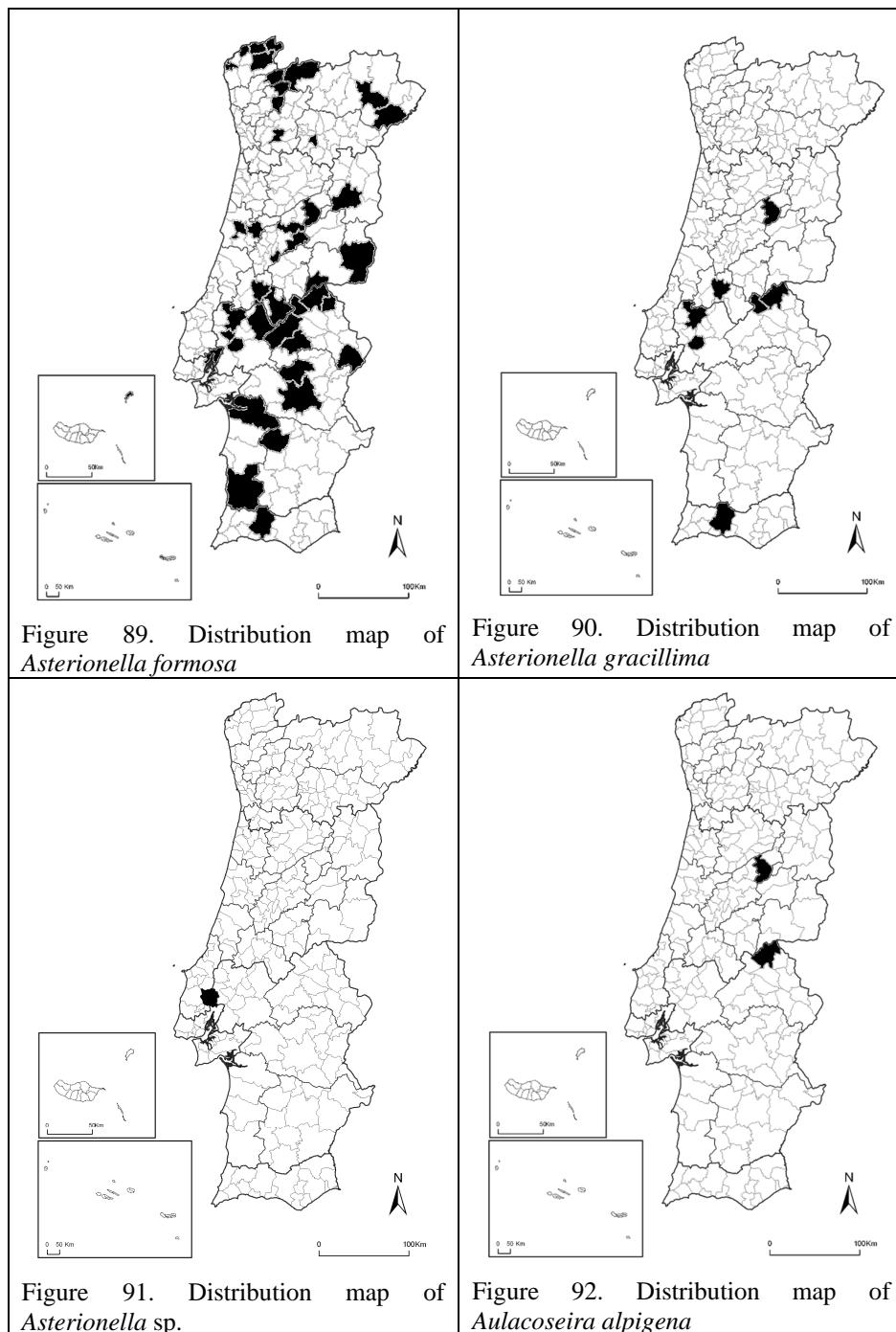


Figure 84. Distribution map of *Anomoeoneis exilis* var. *azorica*





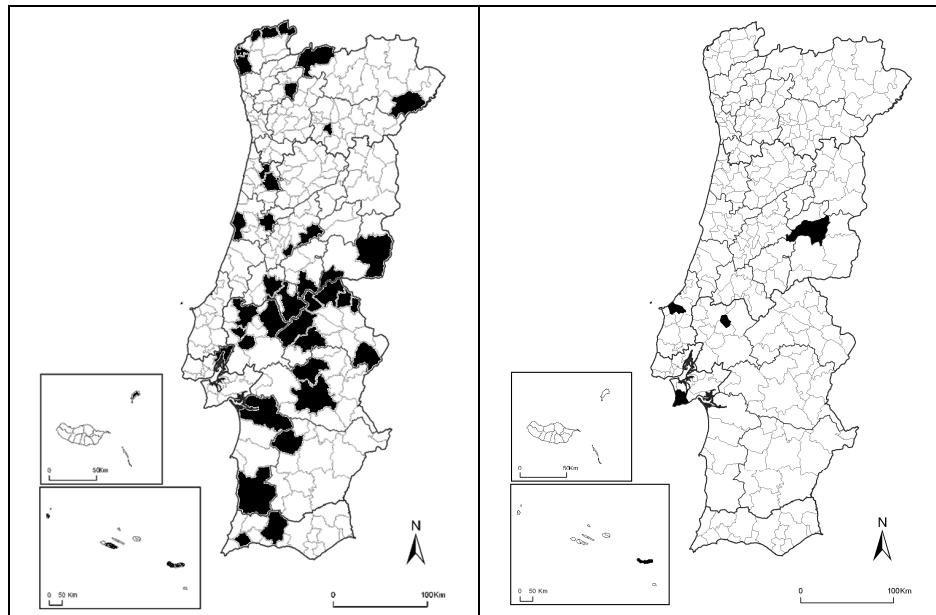


Figure 93. Distribution map of *Aulacoseira ambigua*

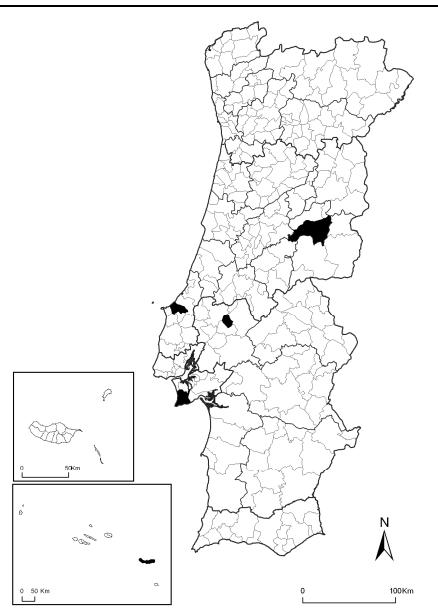


Figure 94. Distribution map of *Aulacoseira crenulata*

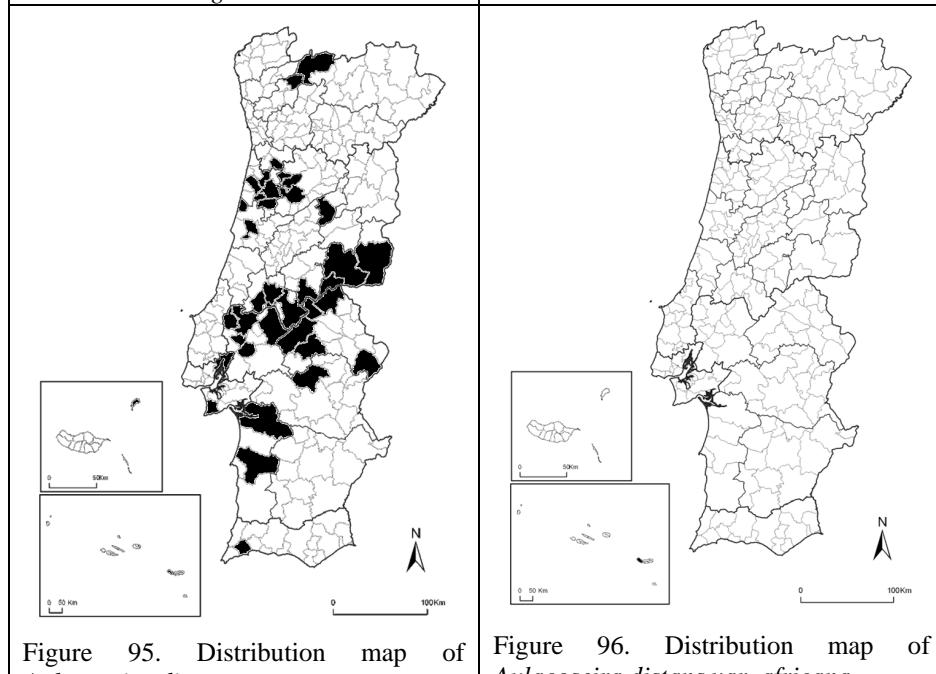


Figure 95. Distribution map of *Aulacoseira distans*

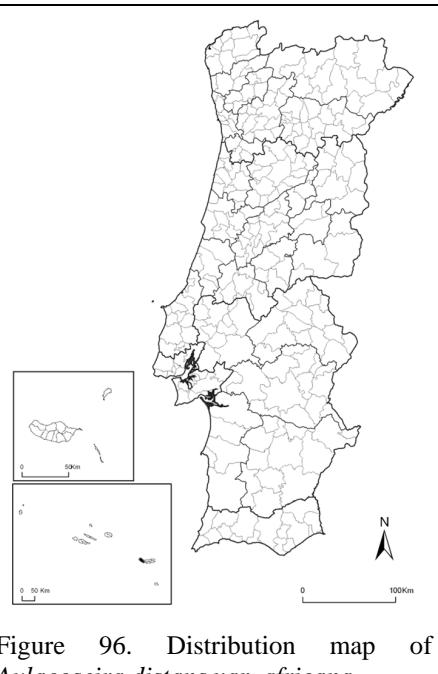


Figure 96. Distribution map of *Aulacoseira distans* var. *africana*

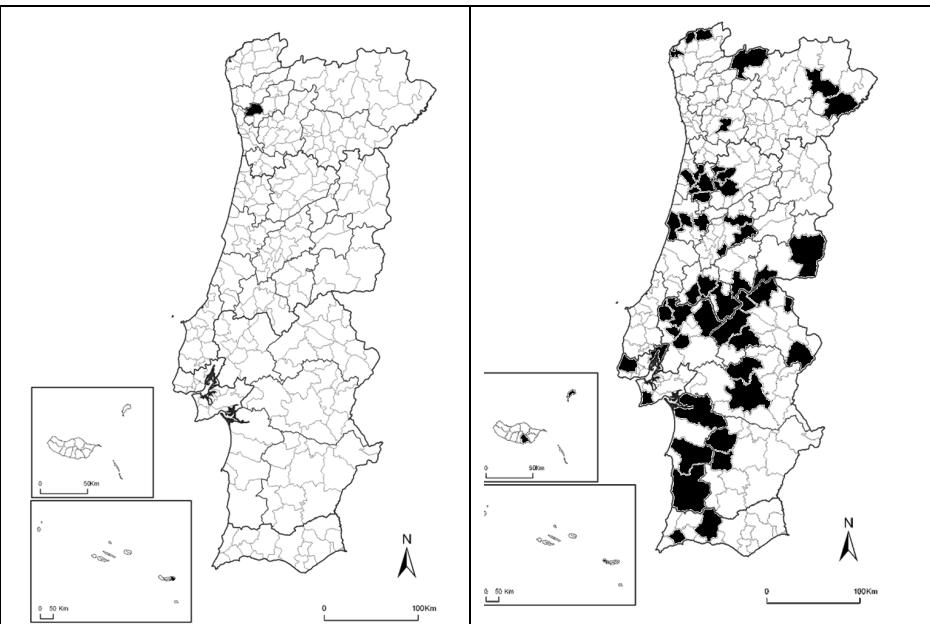


Figure 97. Distribution map of *Aulacoseira distans* var. *nivalis*

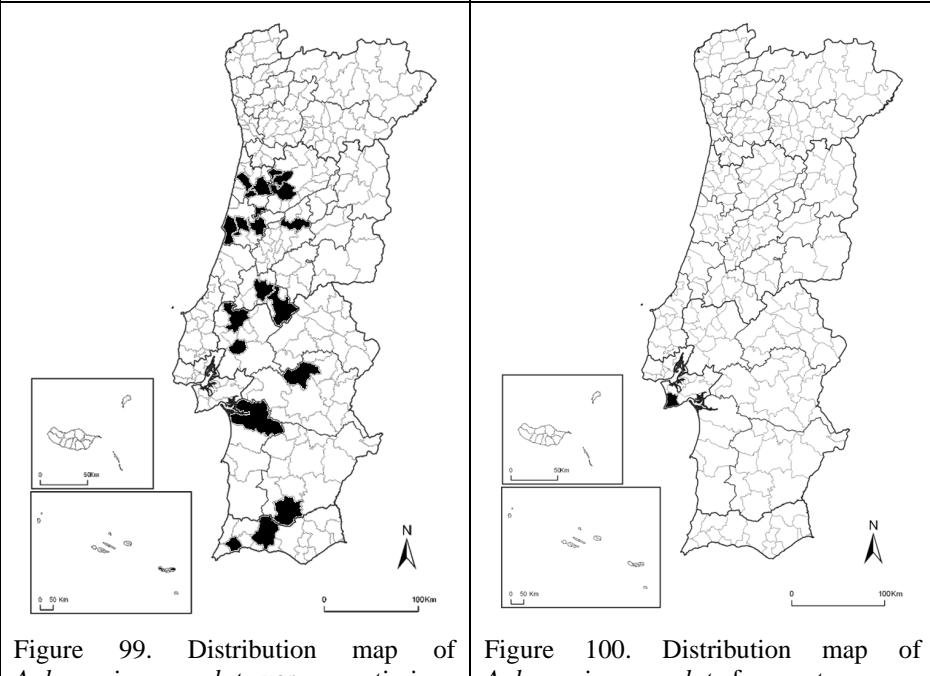


Figure 98. Distribution map of *Aulacoseira granulata*

Figure 99. Distribution map of *Aulacoseira granulata* var. *angustissima*

Figure 100. Distribution map of *Aulacoseira granulata* f. *curvata*

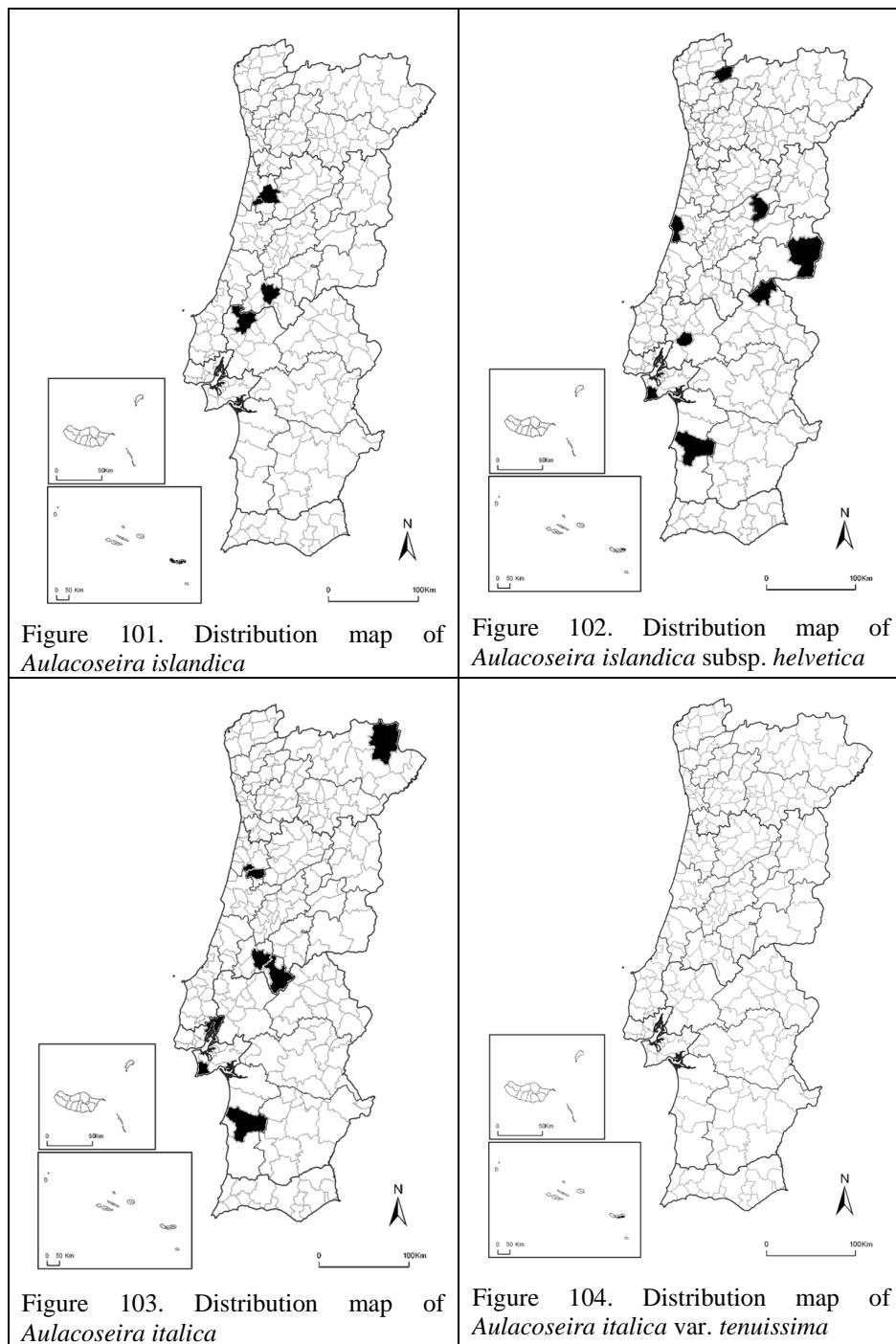
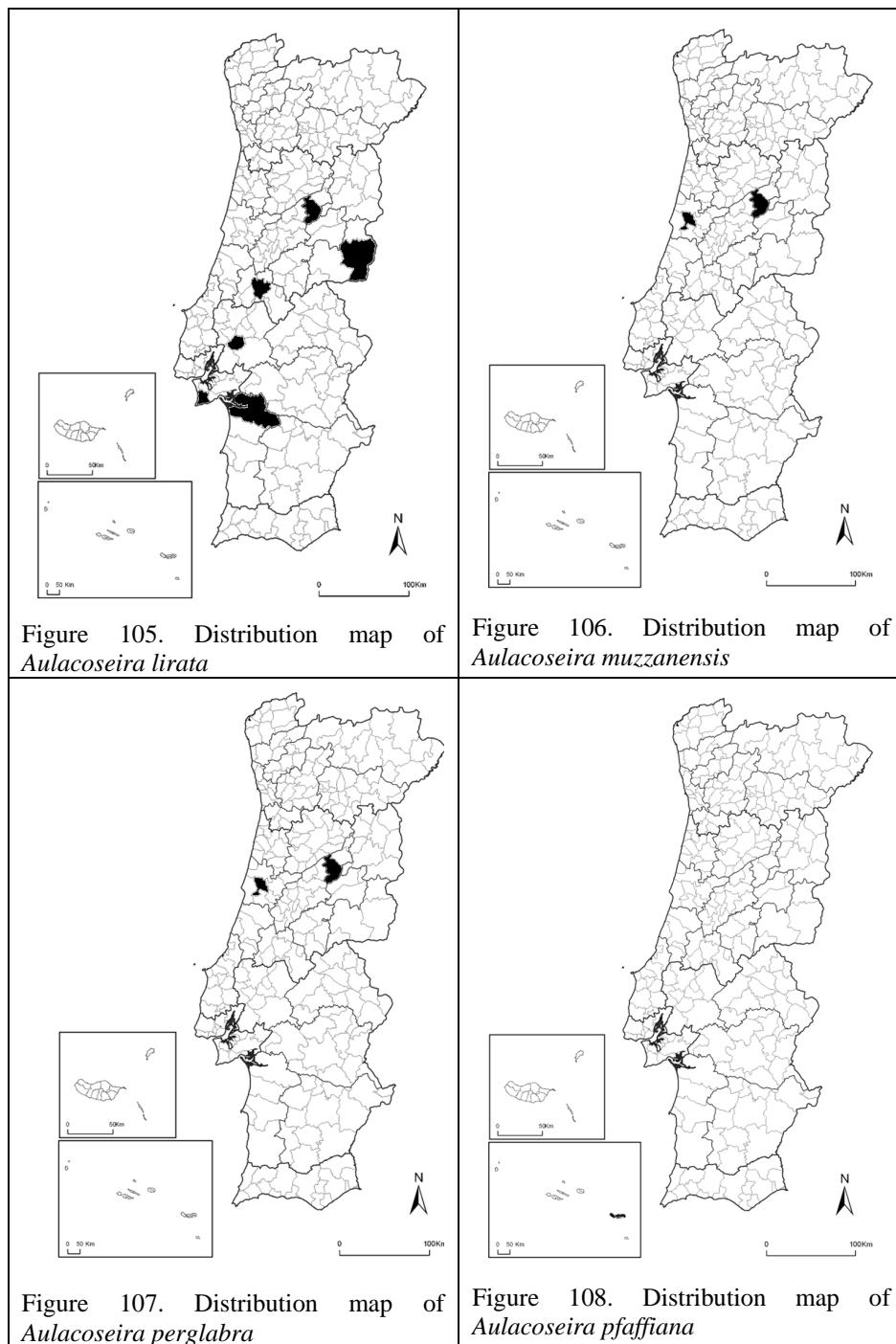


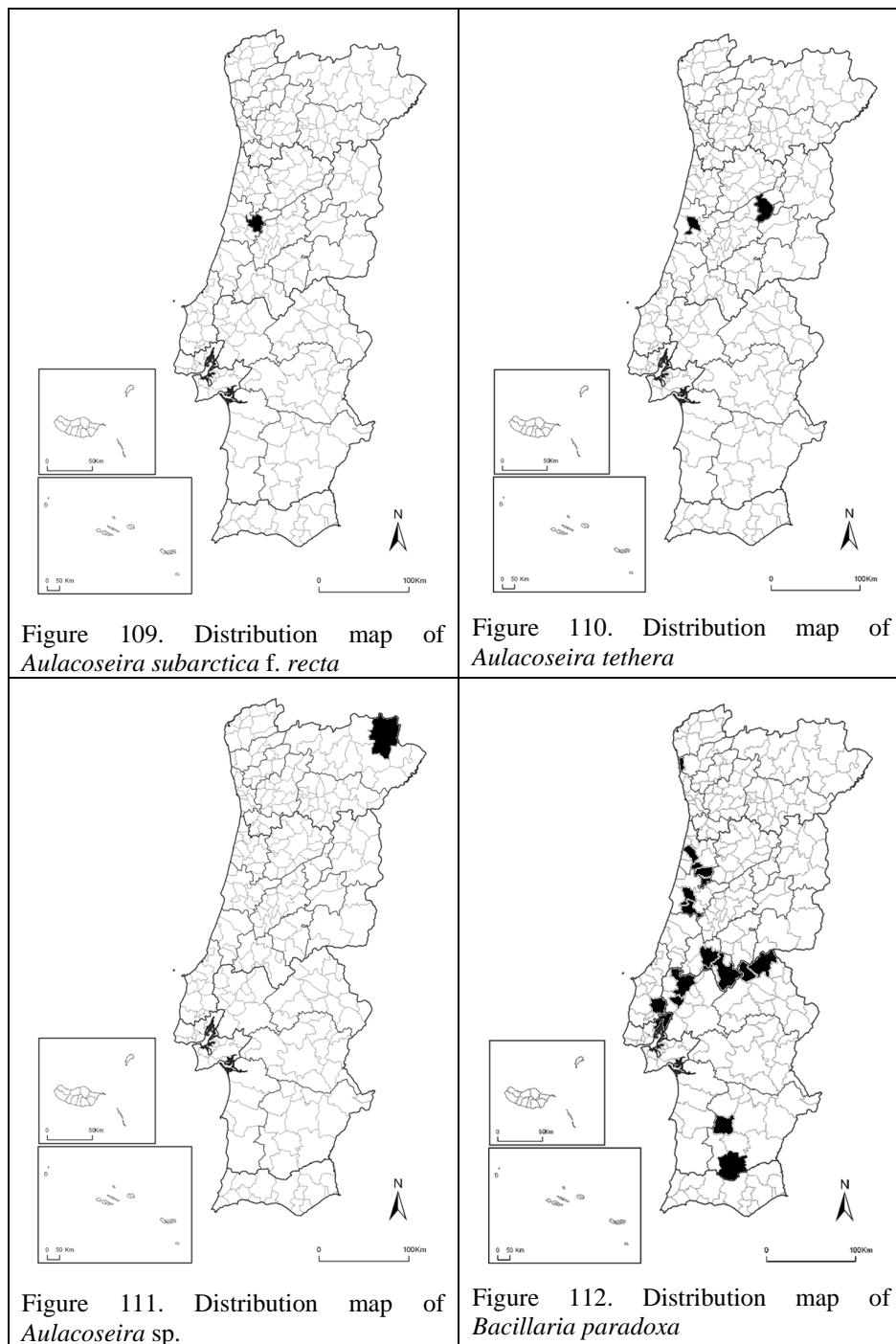
Figure 101. Distribution map of *Aulacoseira islandica*

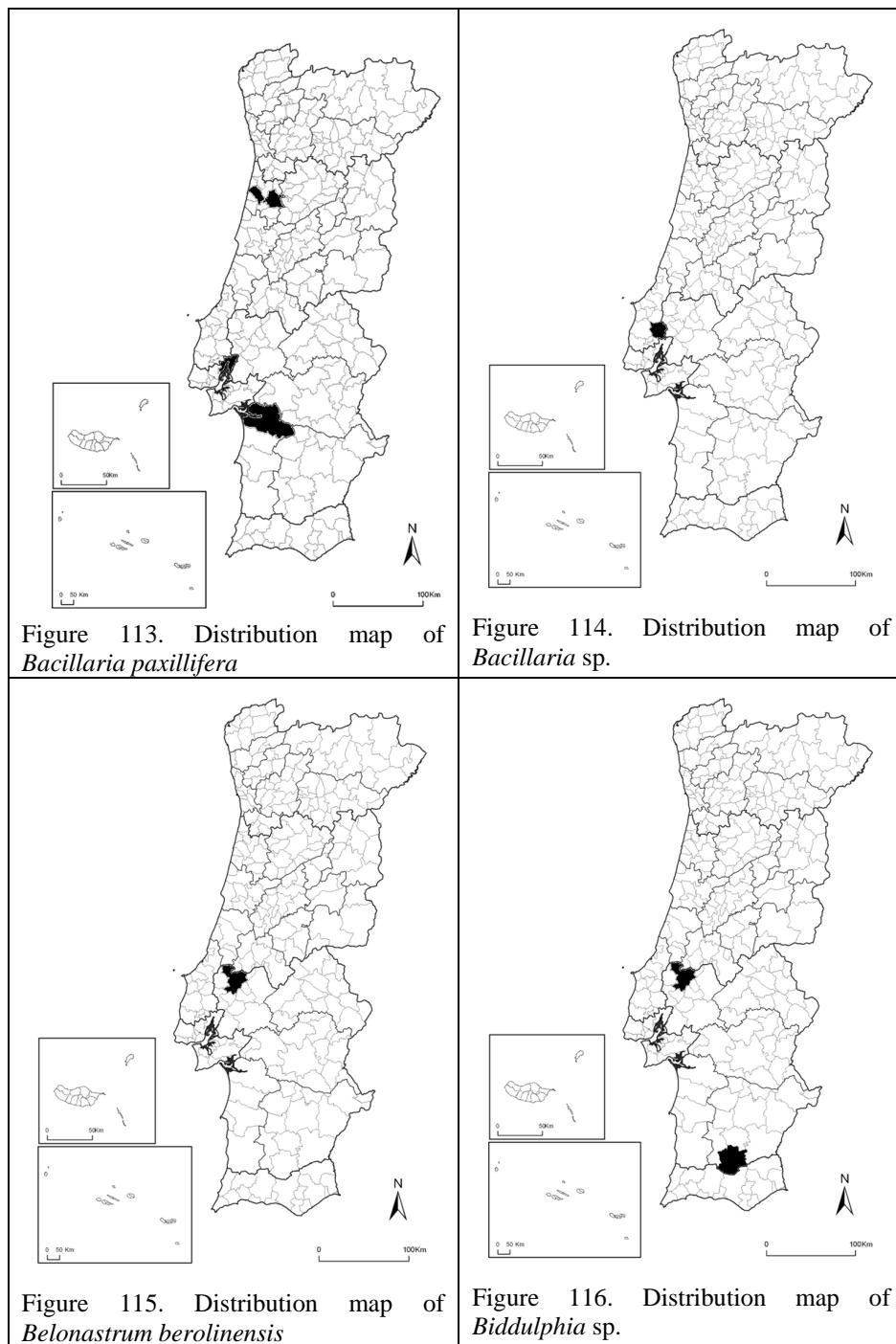
Figure 102. Distribution map of *Aulacoseira islandica* subsp. *helvetica*

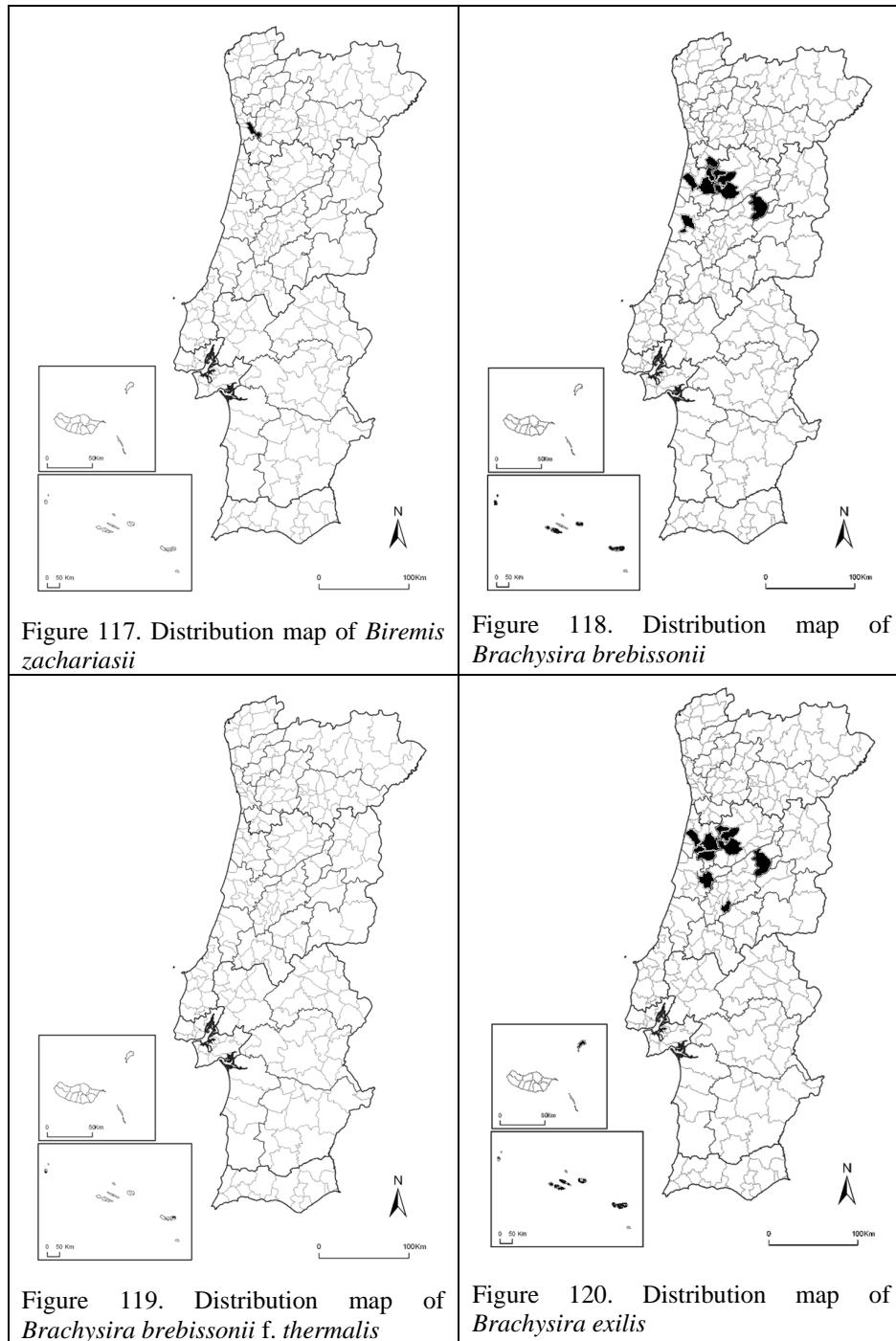
Figure 103. Distribution map of *Aulacoseira italicica*

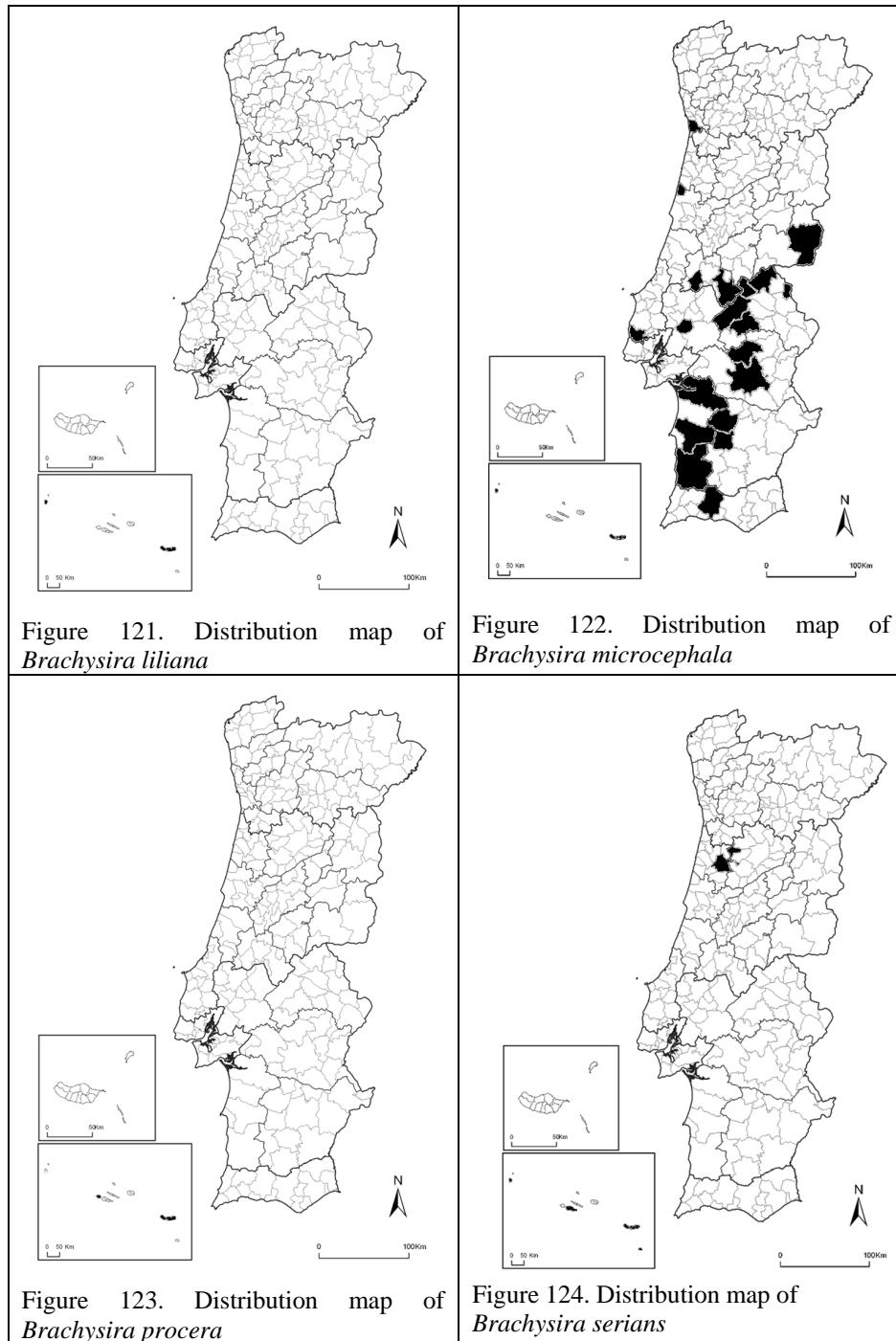
Figure 104. Distribution map of *Aulacoseira italicica* var. *tenuissima*

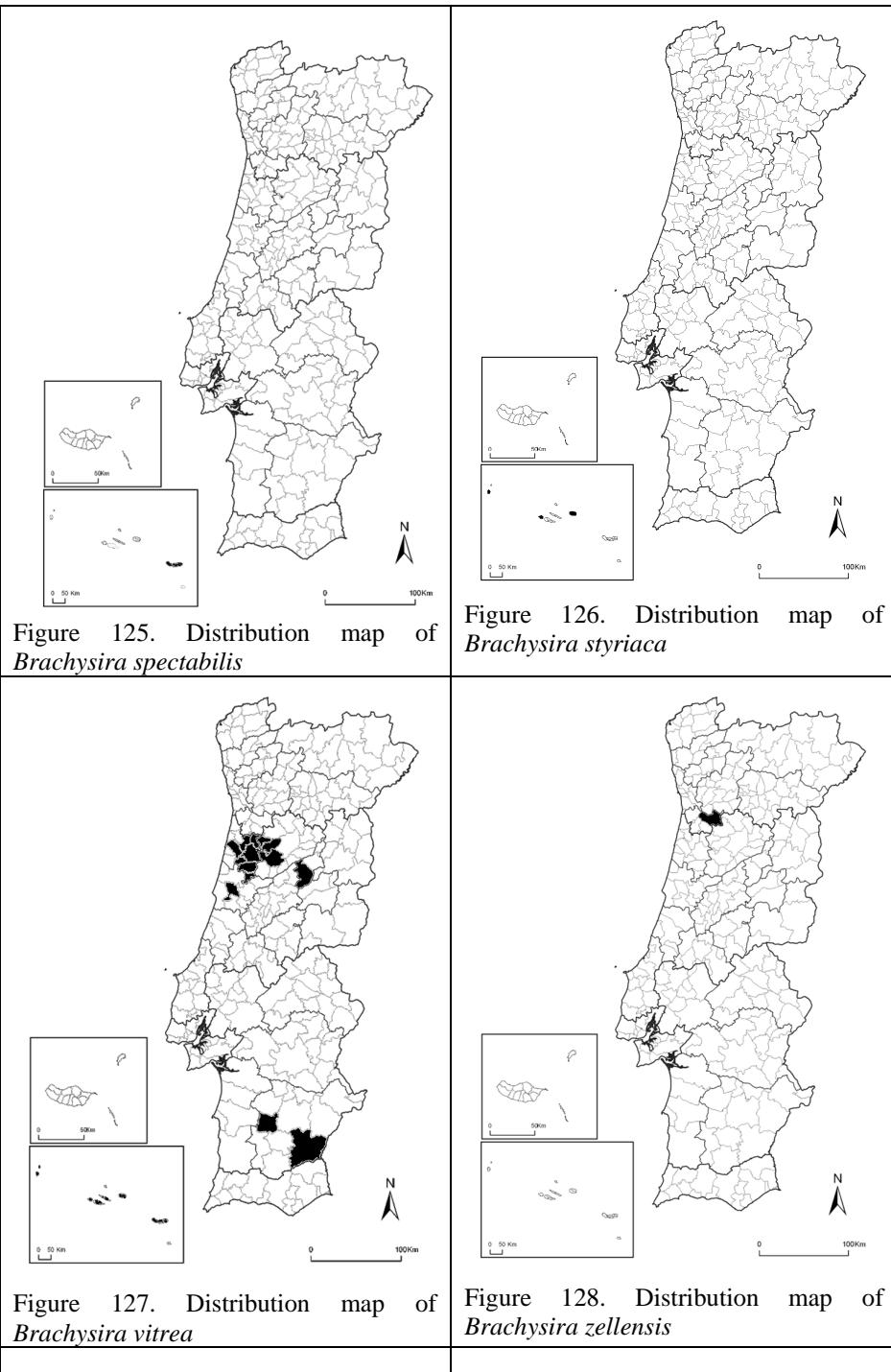












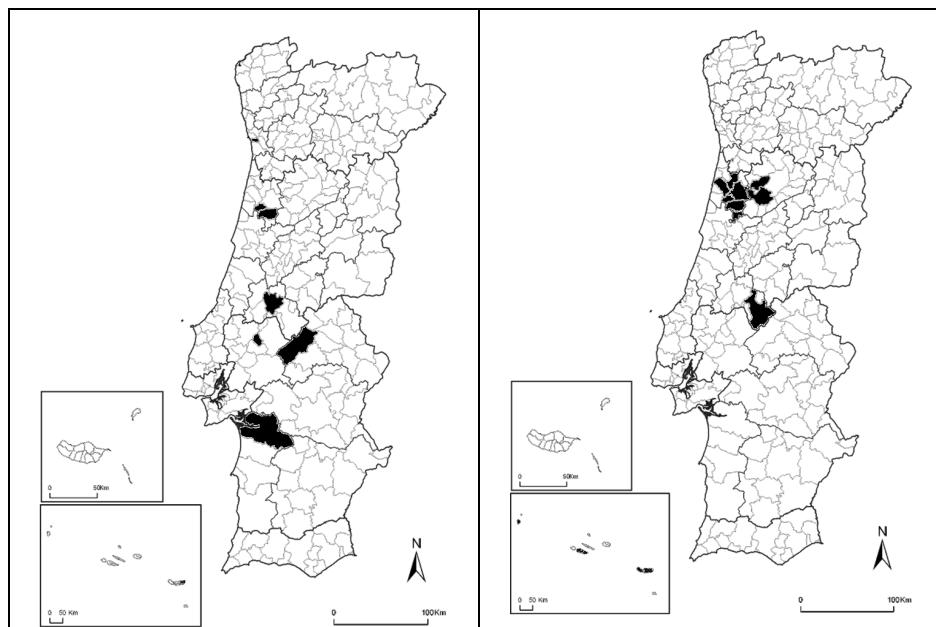


Figure 129. Distribution map of *Caloneis amphisbaena*

Figure 130. Distribution map of *Caloneis bacillum*

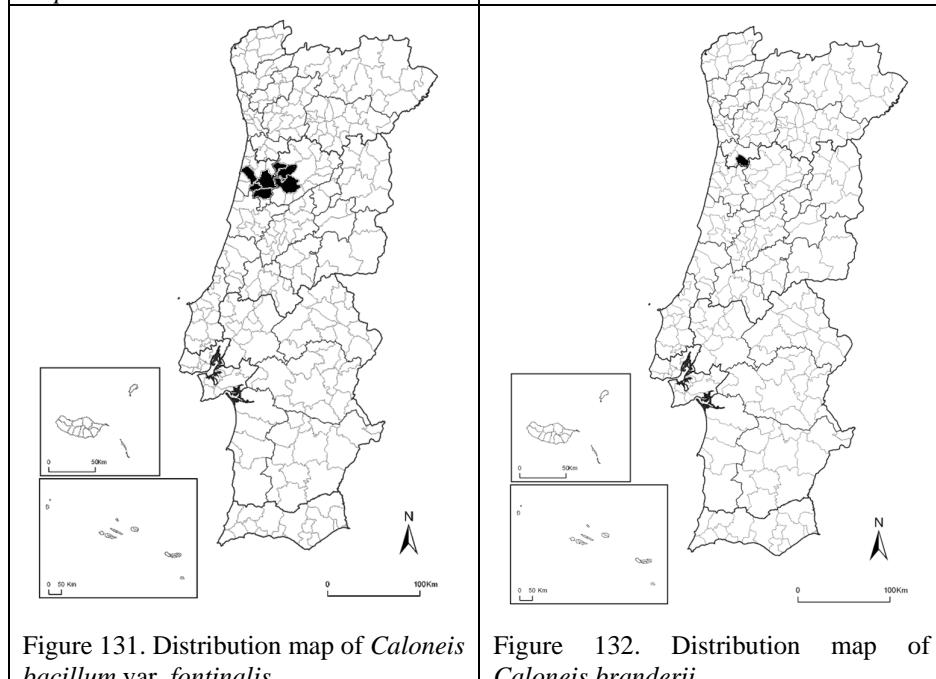


Figure 131. Distribution map of *Caloneis bacillum* var. *fontinalis*

Figure 132. Distribution map of *Caloneis branderii*

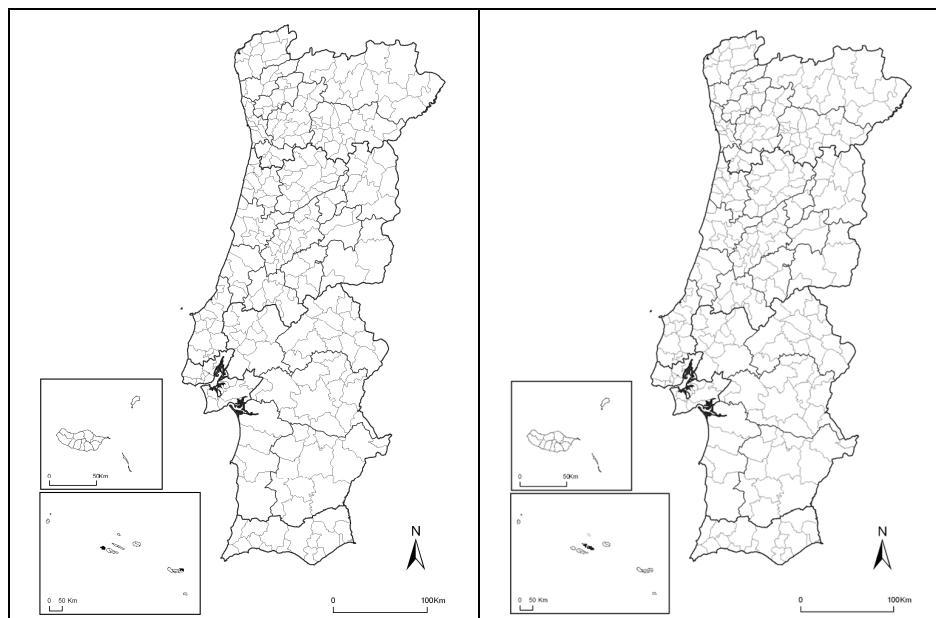


Figure 133. Distribution map of *Caloneis clevei* f. *inaequalis*

Figure 134. Distribution map of *Caloneis dubia*

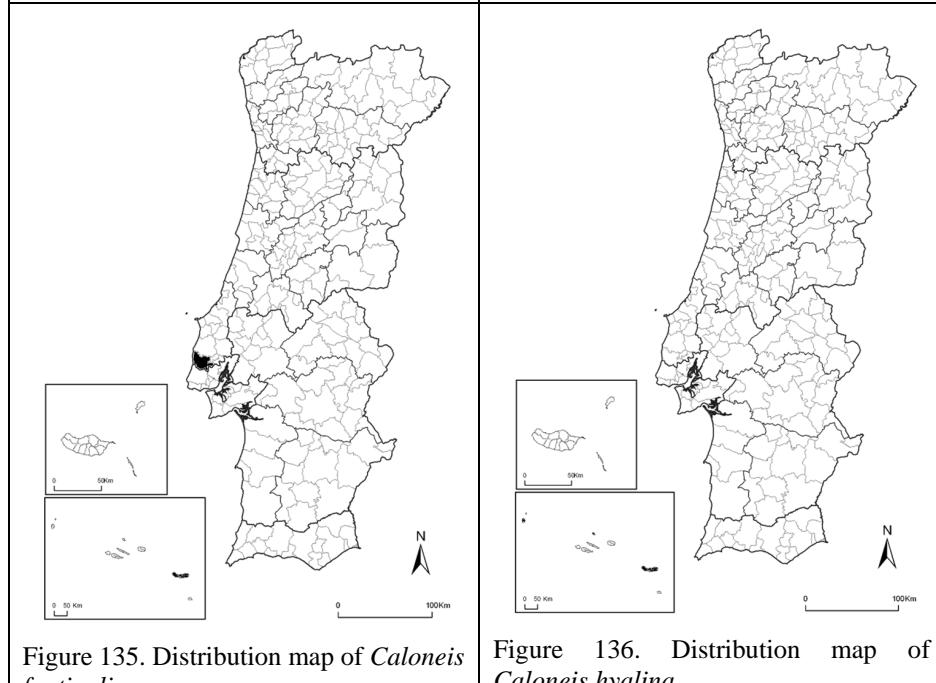
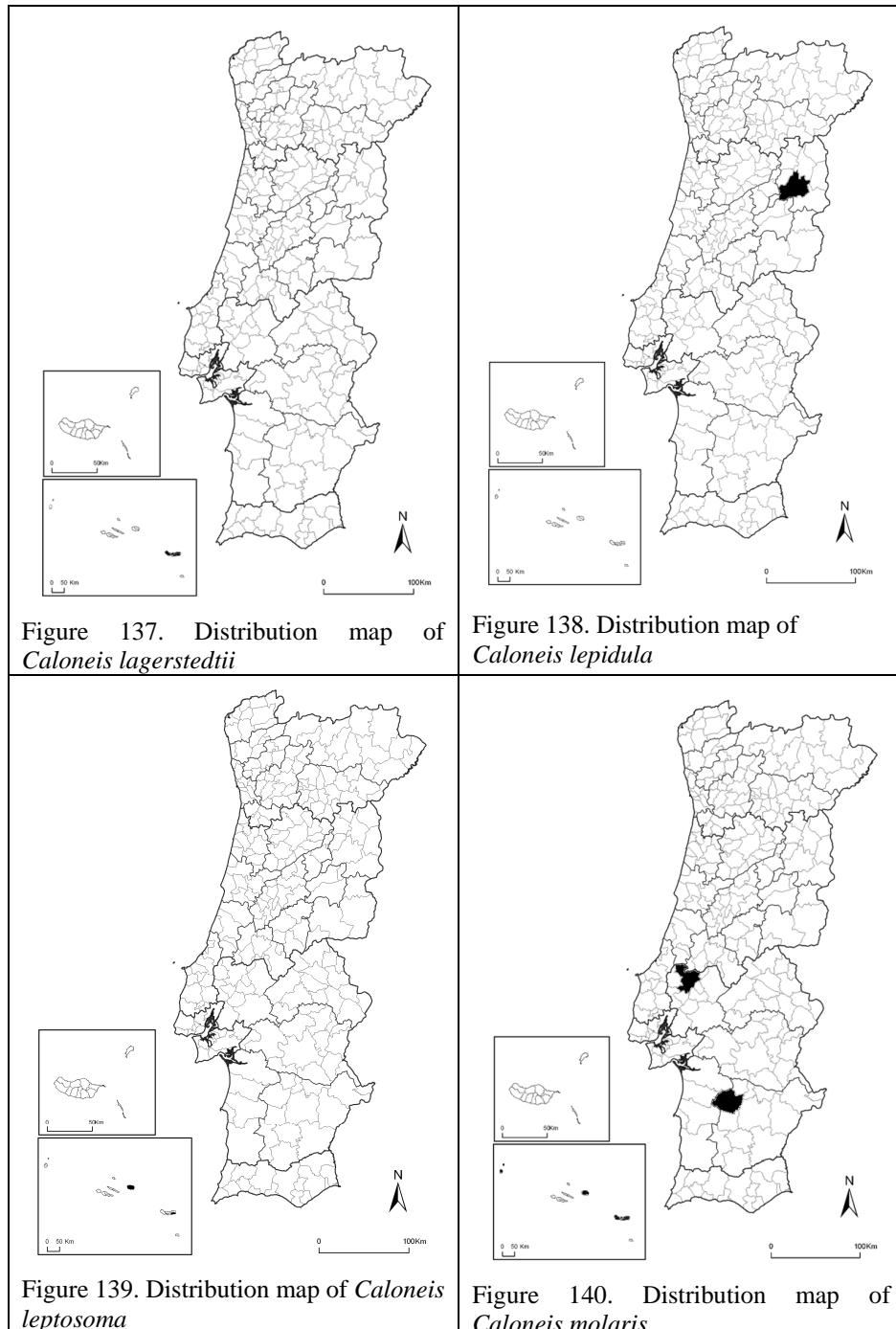


Figure 135. Distribution map of *Caloneis fontinalis*

Figure 136. Distribution map of *Caloneis hyalina*



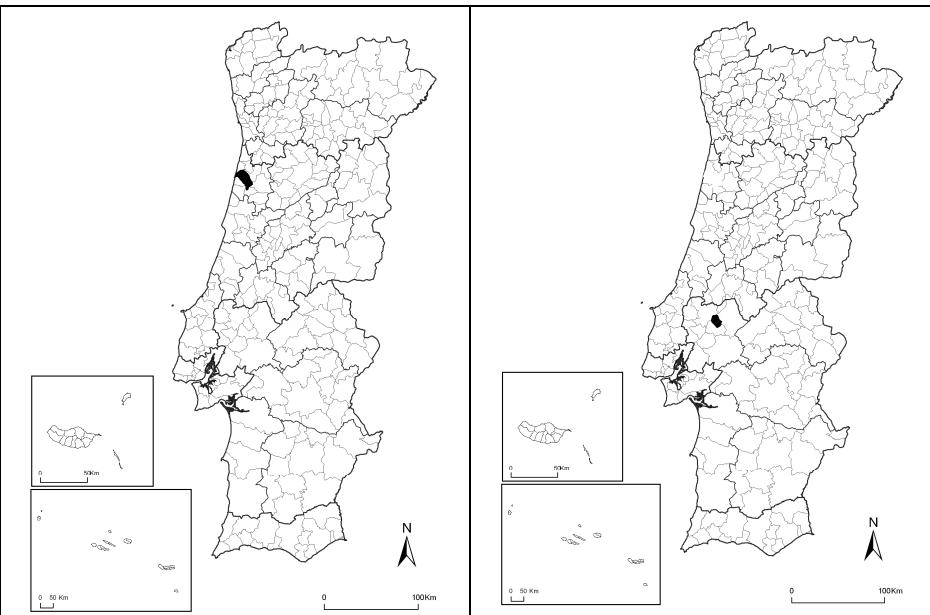


Figure 141. Distribution map of *Caloneis permagna*

Figure 142. Distribution map of *Caloneis pulchra*

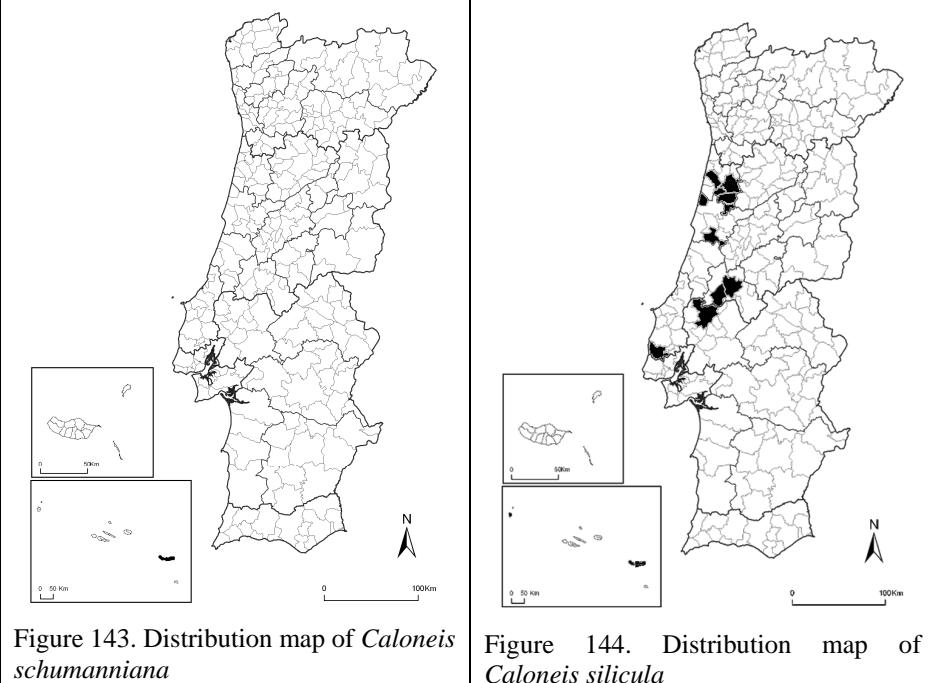


Figure 143. Distribution map of *Caloneis schumanniana*

Figure 144. Distribution map of *Caloneis silicula*

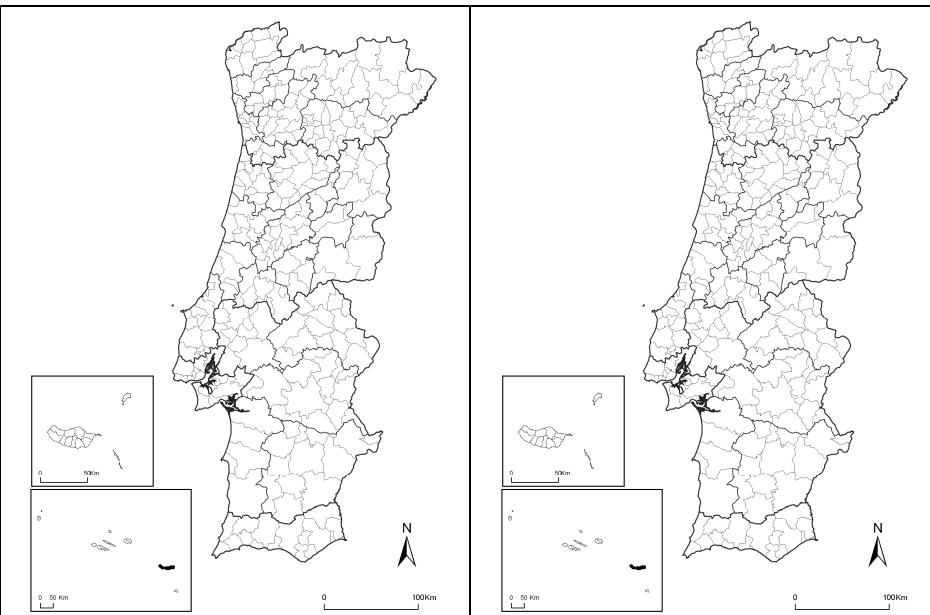


Figure 145. Distribution map of *Caloneis silicula* f. *alpina*

Figure 146. Distribution map of *Caloneis silicula* var. *genuina*

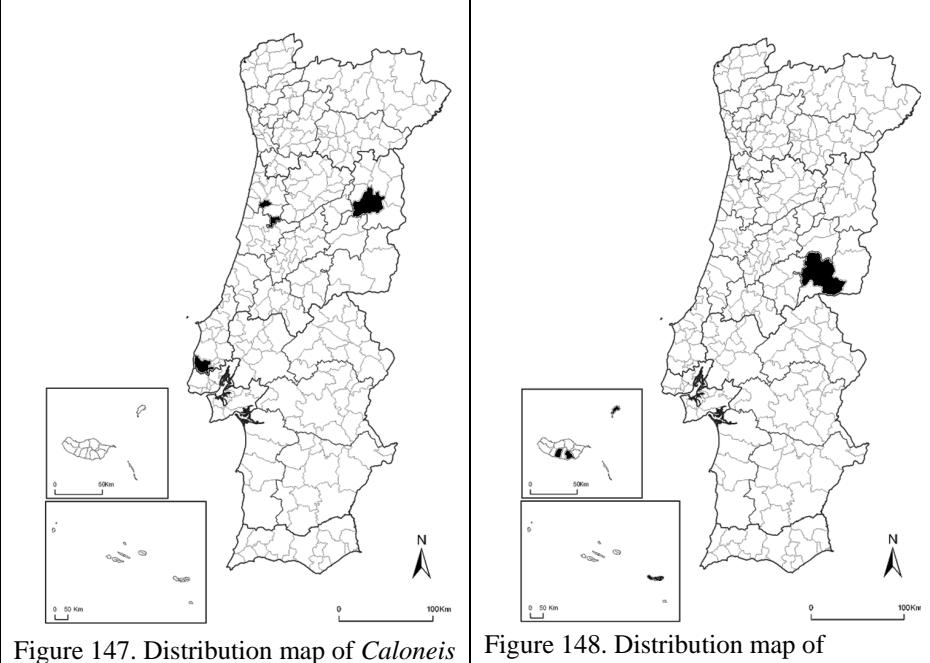


Figure 147. Distribution map of *Caloneis silicula* var. *gibberula*

Figure 148. Distribution map of *Caloneis silicula* var. *limosa*

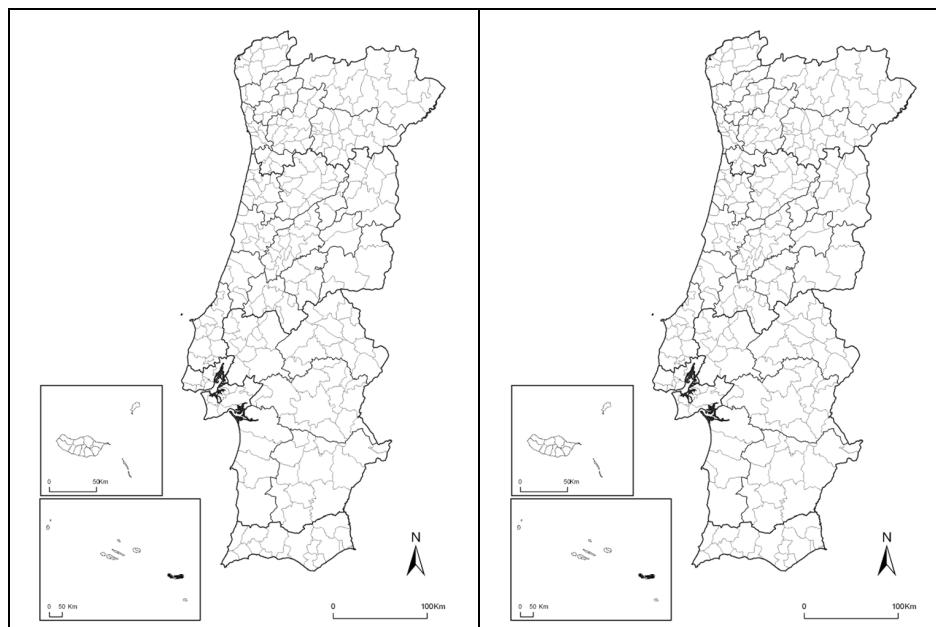


Figure 149. Distribution map of *Caloneis thermalis*

Figure 150. Distribution map of *Caloneis undosa*

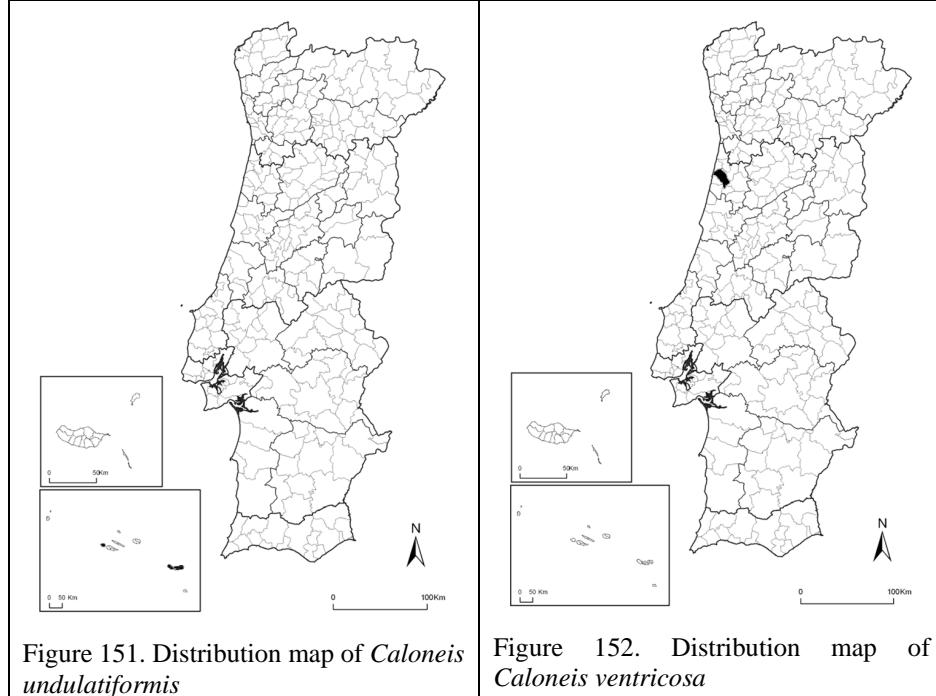


Figure 151. Distribution map of *Caloneis undulatiformis*

Figure 152. Distribution map of *Caloneis ventricosa*

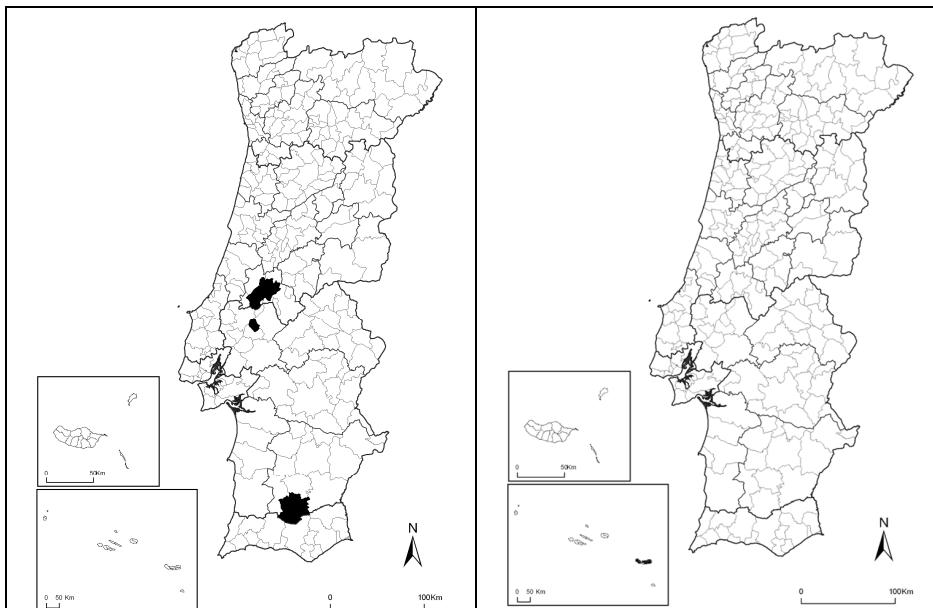


Figure 153. Distribution map of *Caloneis* sp.

Figure 154. Distribution map of *Campylodiscus costatus*

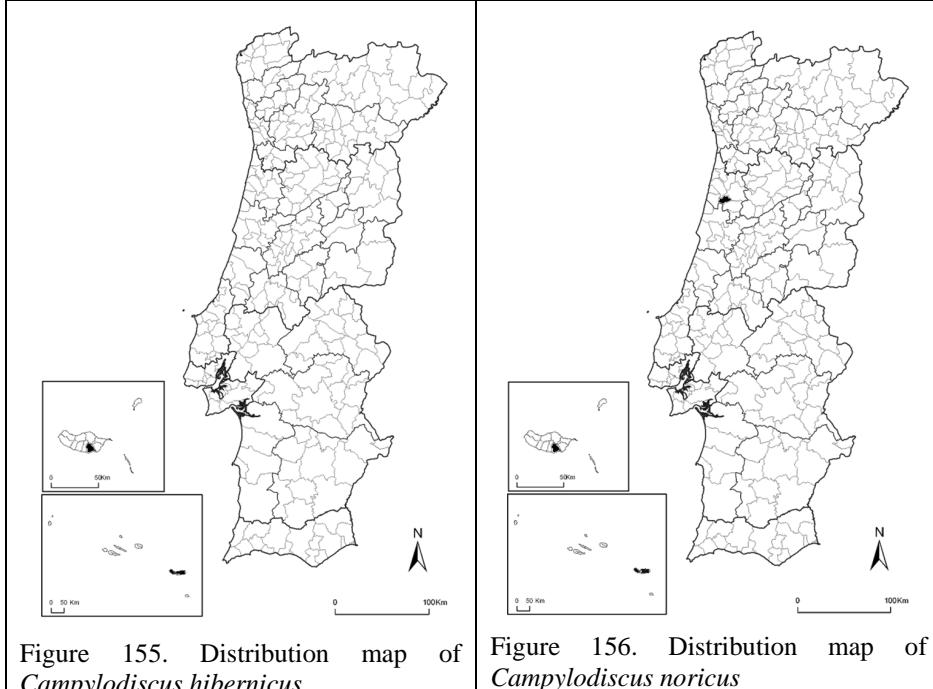


Figure 155. Distribution map of *Campylodiscus hibernicus*

Figure 156. Distribution map of *Campylodiscus noricus*

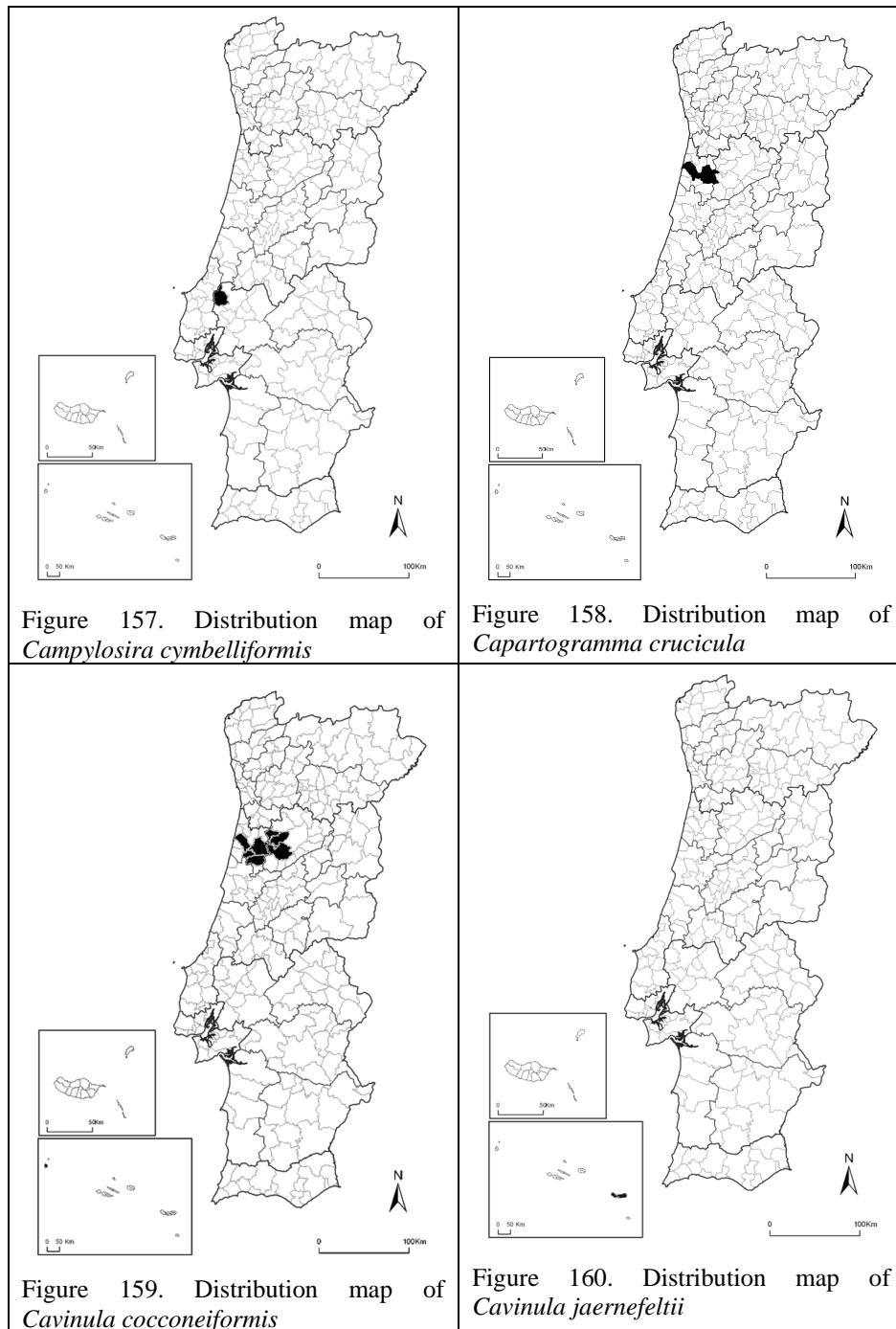
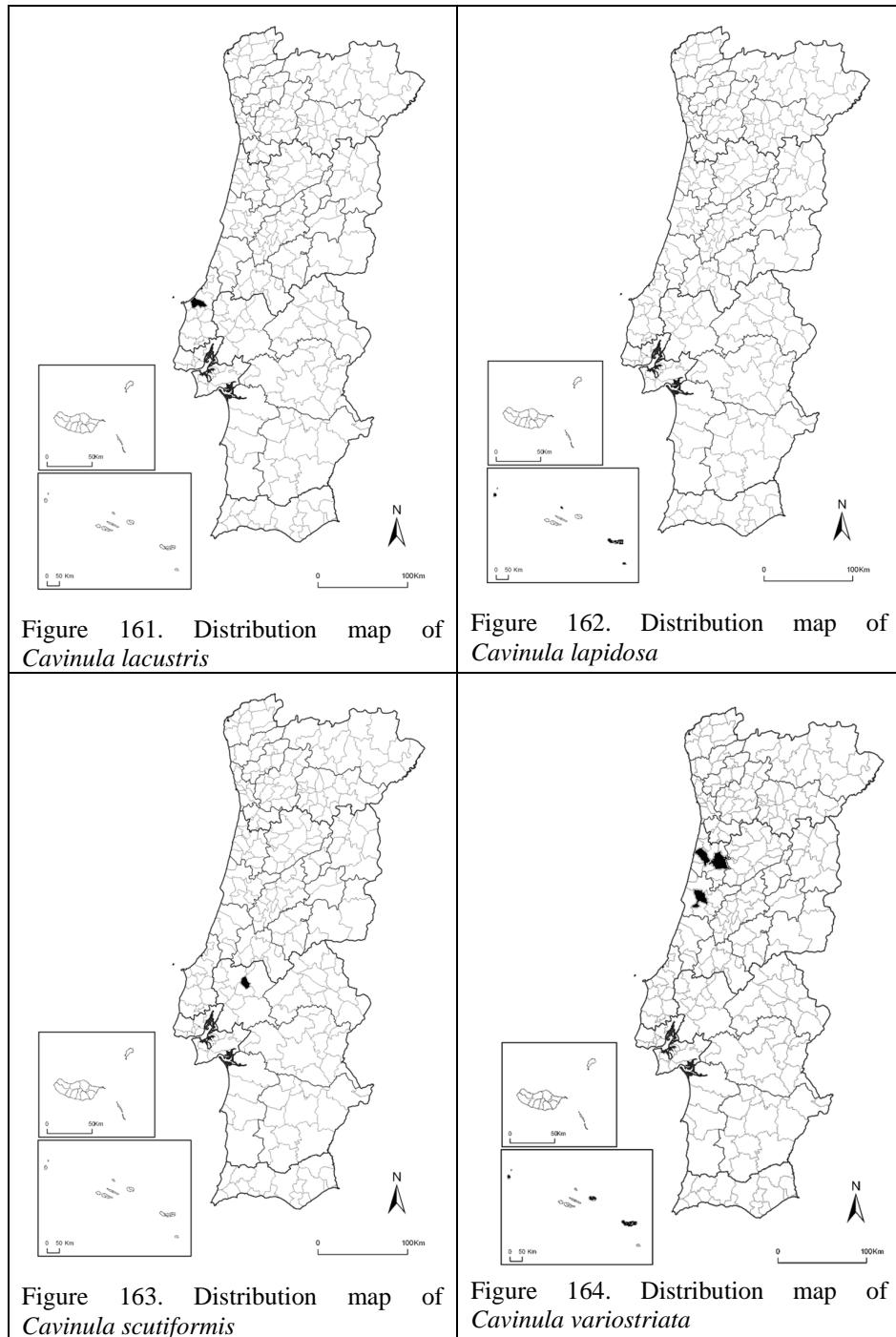


Figure 157. Distribution map of *Campylosira cymbelliformis*

Figure 158. Distribution map of *Capartogramma crucicula*

Figure 159. Distribution map of *Cavinula coccineiformis*

Figure 160. Distribution map of *Cavinula jaernefeltii*



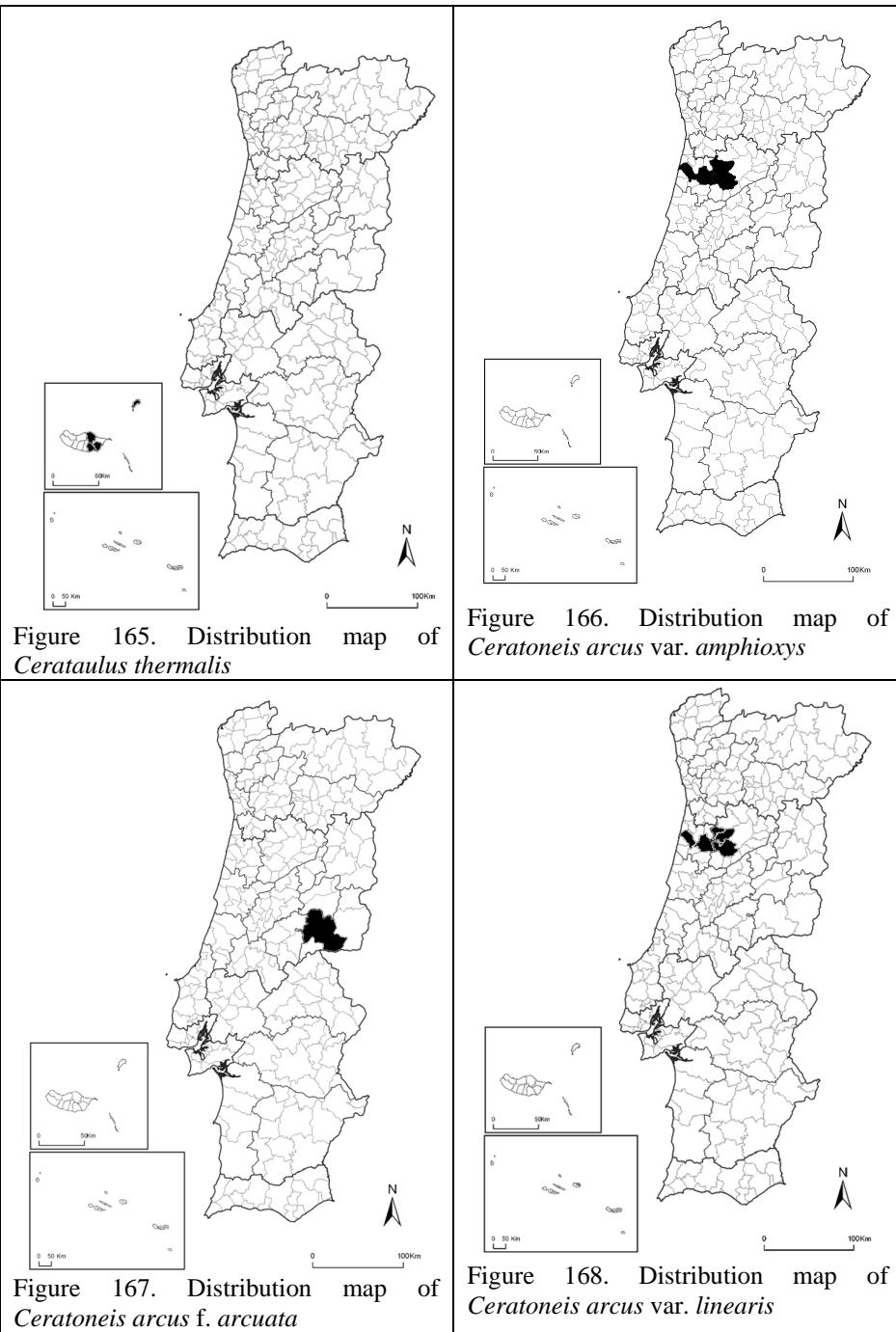
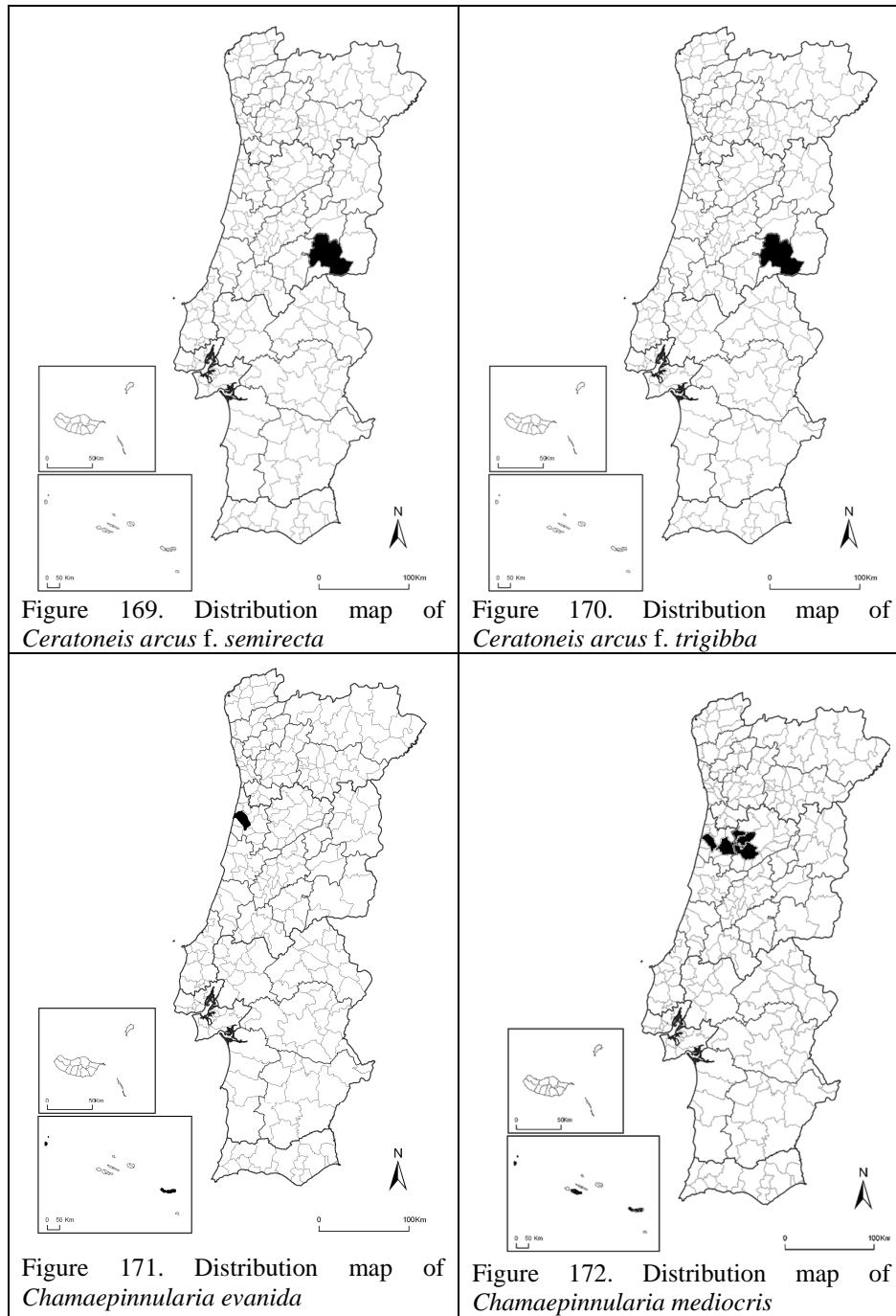


Figure 165. Distribution map of *Cerataulus thermalis*

Figure 166. Distribution map of *Ceratoneis arcus* var. *amphioxys*

Figure 167. Distribution map of *Ceratoneis arcus* f. *arcuata*

Figure 168. Distribution map of *Ceratoneis arcus* var. *linearis*



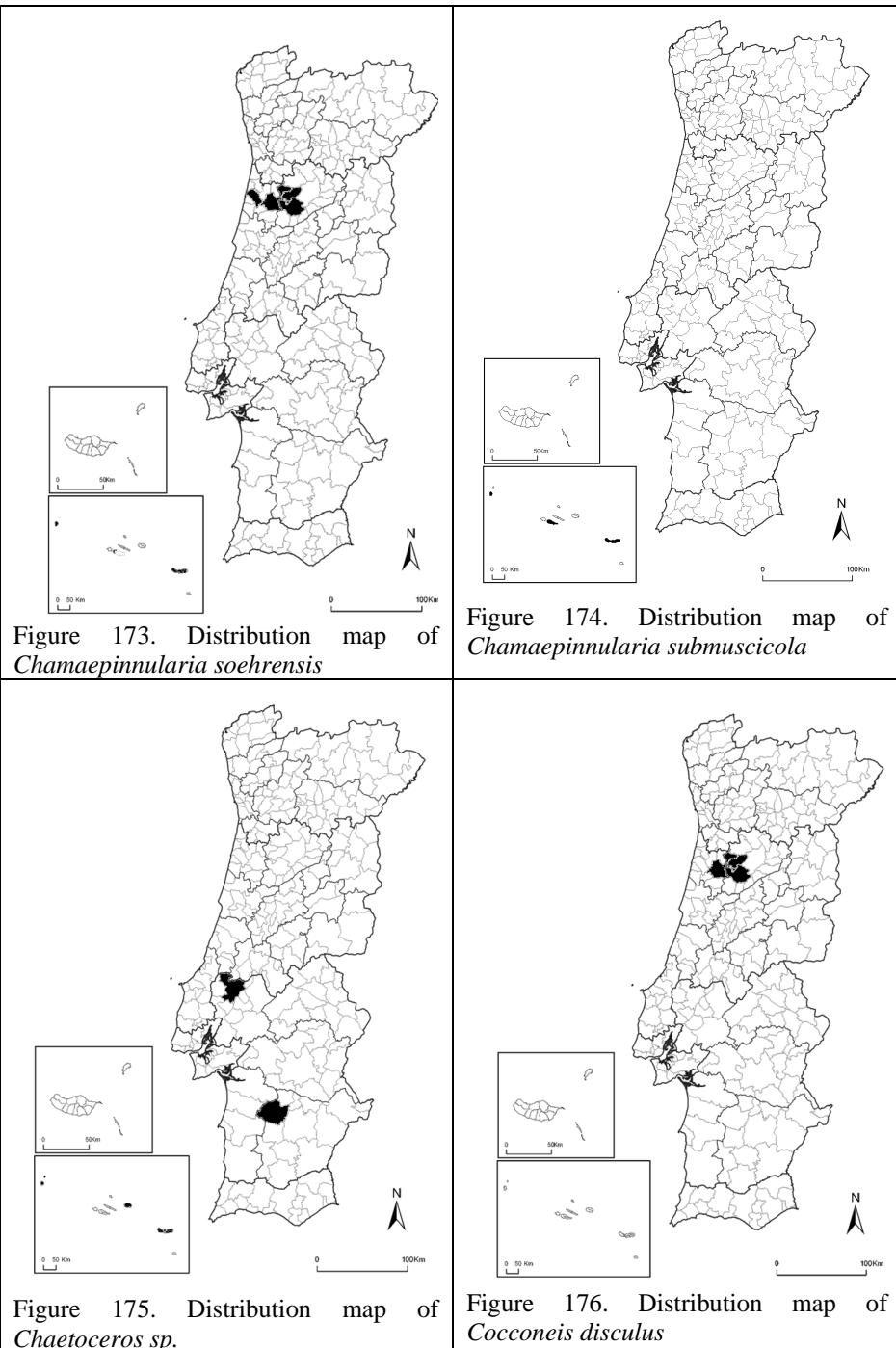
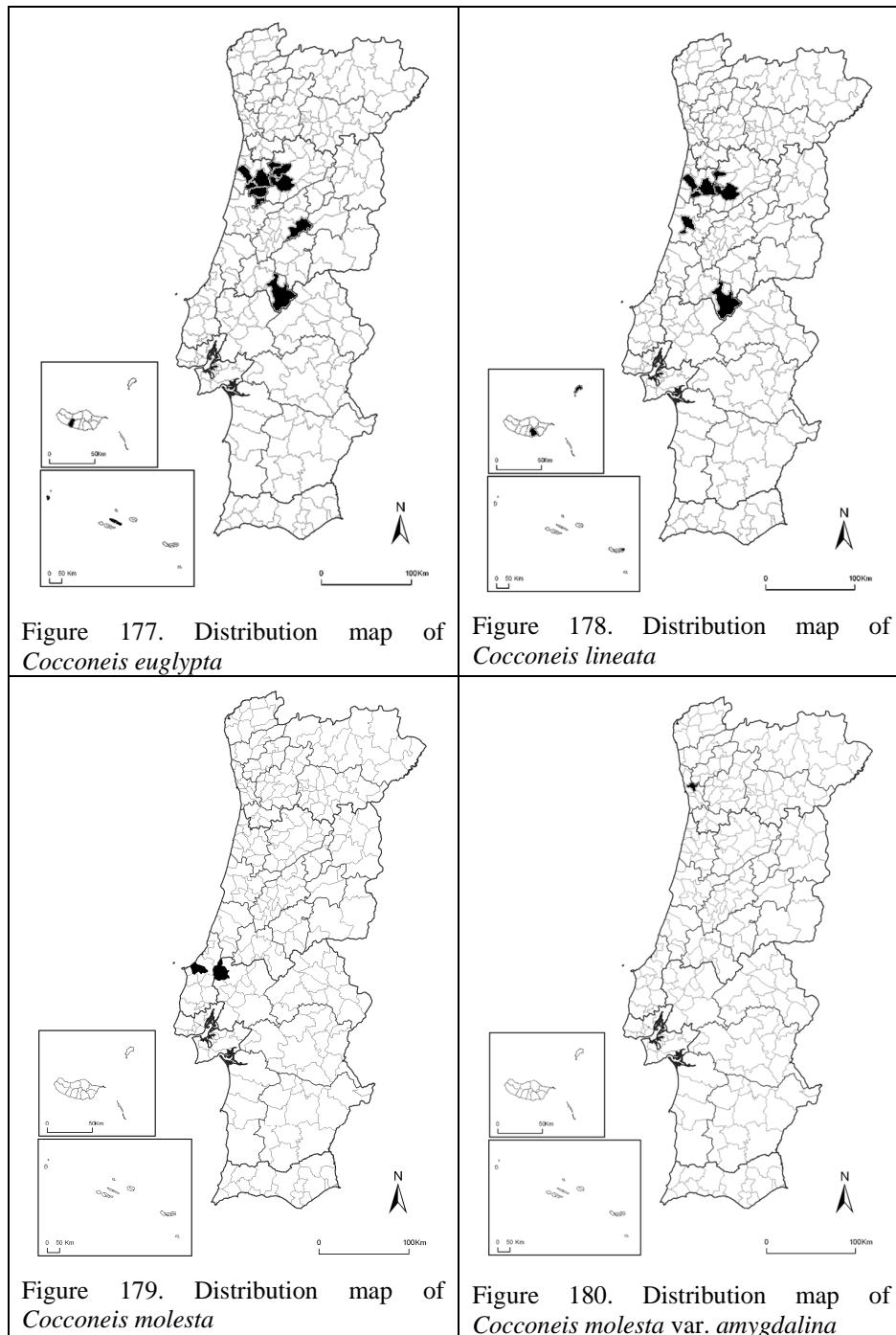


Figure 173. Distribution map of *Chamaepinnularia soehrensis*

Figure 174. Distribution map of *Chamaepinnularia submuscicola*

Figure 175. Distribution map of *Chaetoceros sp.*

Figure 176. Distribution map of *Cocconeis disculus*



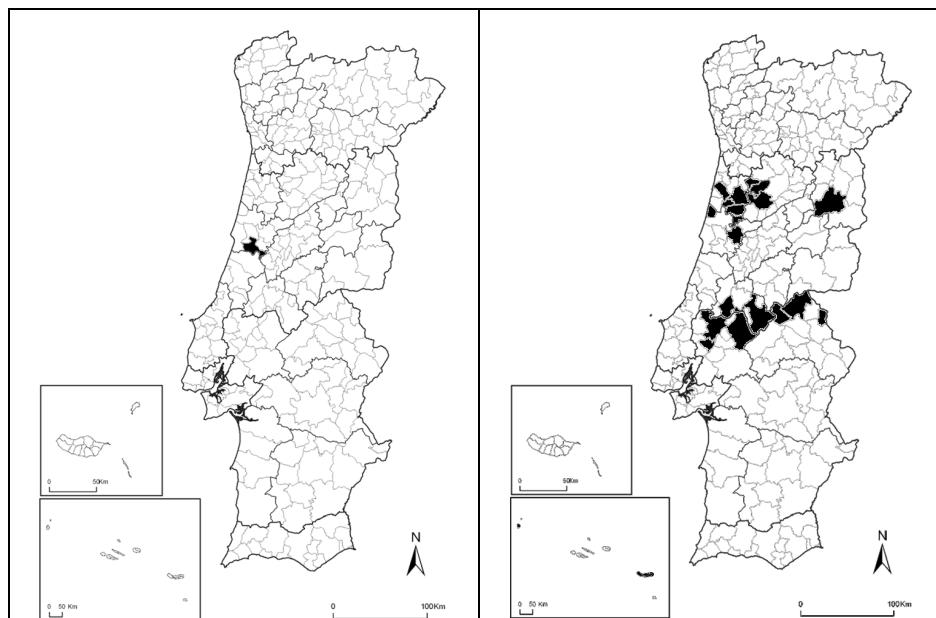


Figure 181. Distribution map of *Cocconeis neodiminuta*

Figure 182. Distribution map of *Cocconeis pediculus*

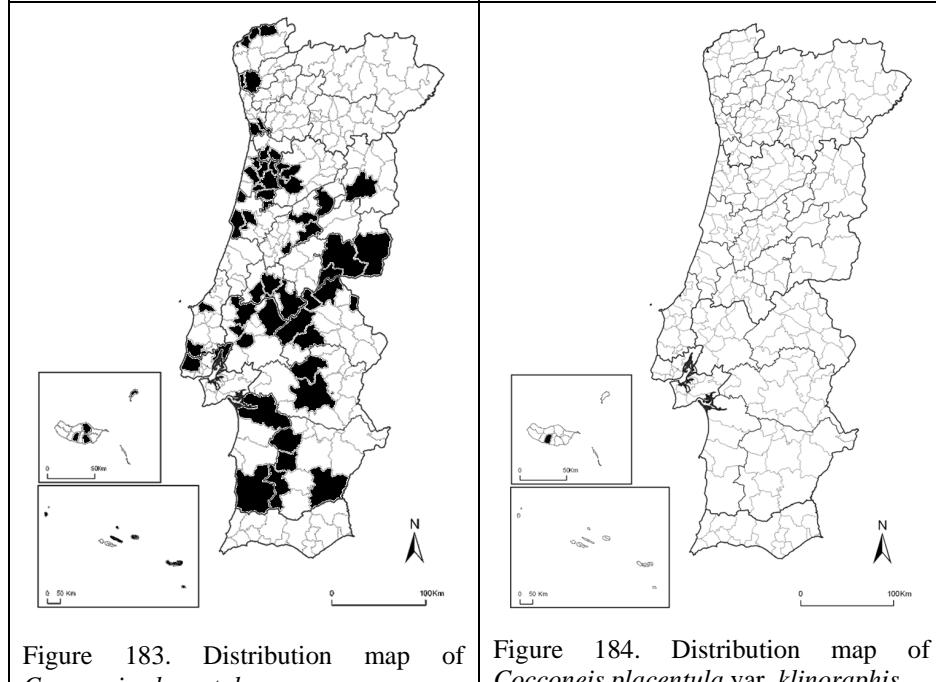
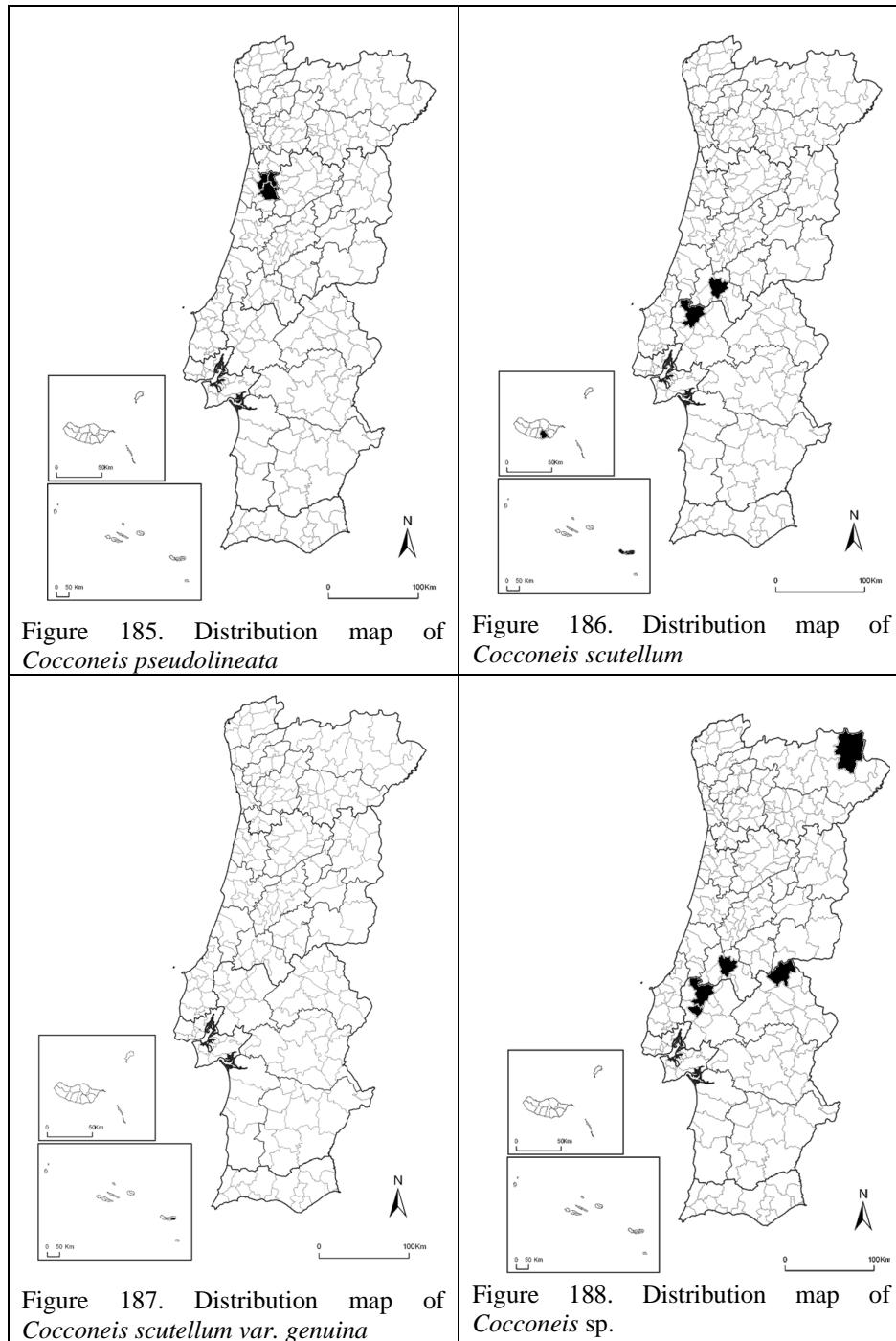


Figure 183. Distribution map of *Cocconeis placentula*

Figure 184. Distribution map of *Cocconeis placentula* var. *klinoraphis*



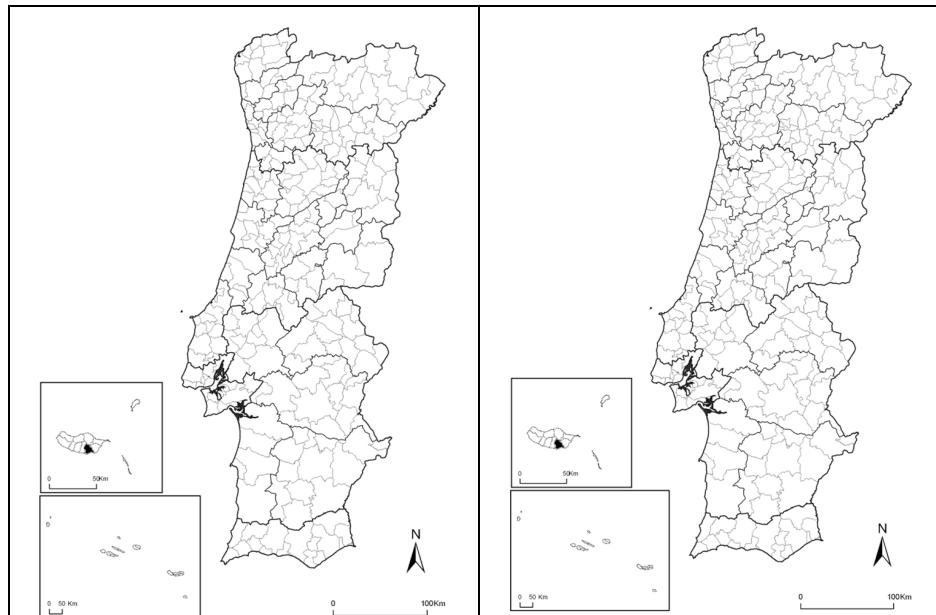


Figure 189. Distribution map of *Coscinodiscus africanus*

Figure 190. Distribution map of *Coscinodiscus curvatulus*

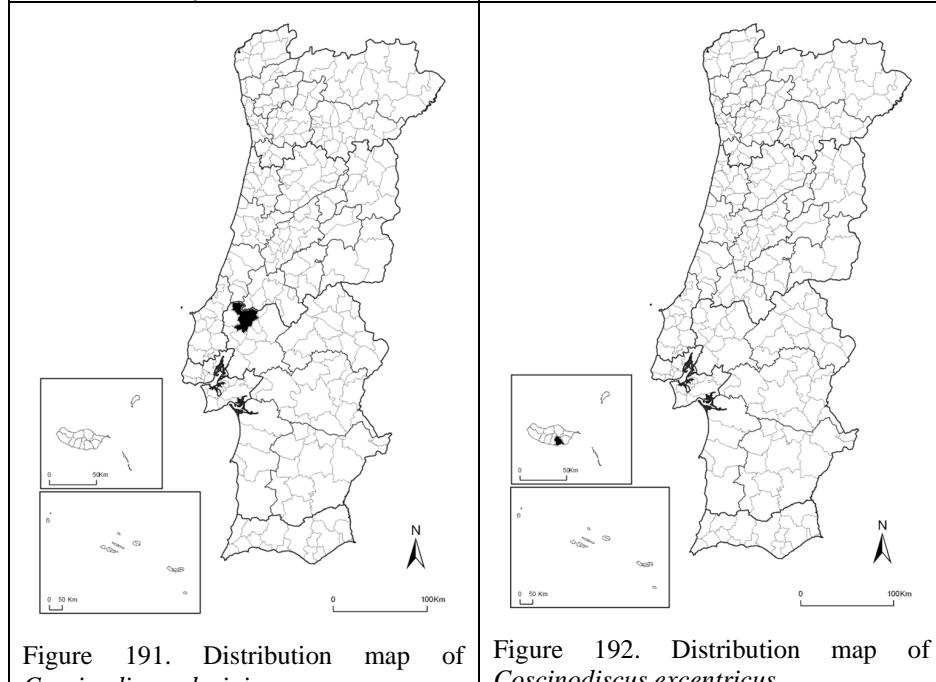


Figure 191. Distribution map of *Coscinodiscus decipiens*

Figure 192. Distribution map of *Coscinodiscus excentricus*

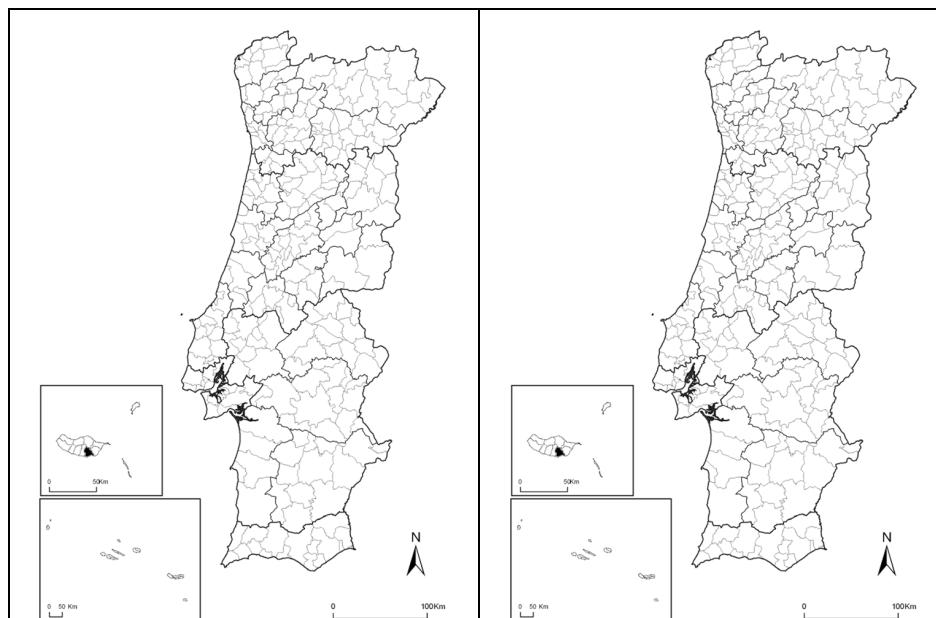


Figure 193. Distribution map of *Coscinodiscus lineatus*

Figure 194. Distribution map of *Coscinodiscus nodulifer*

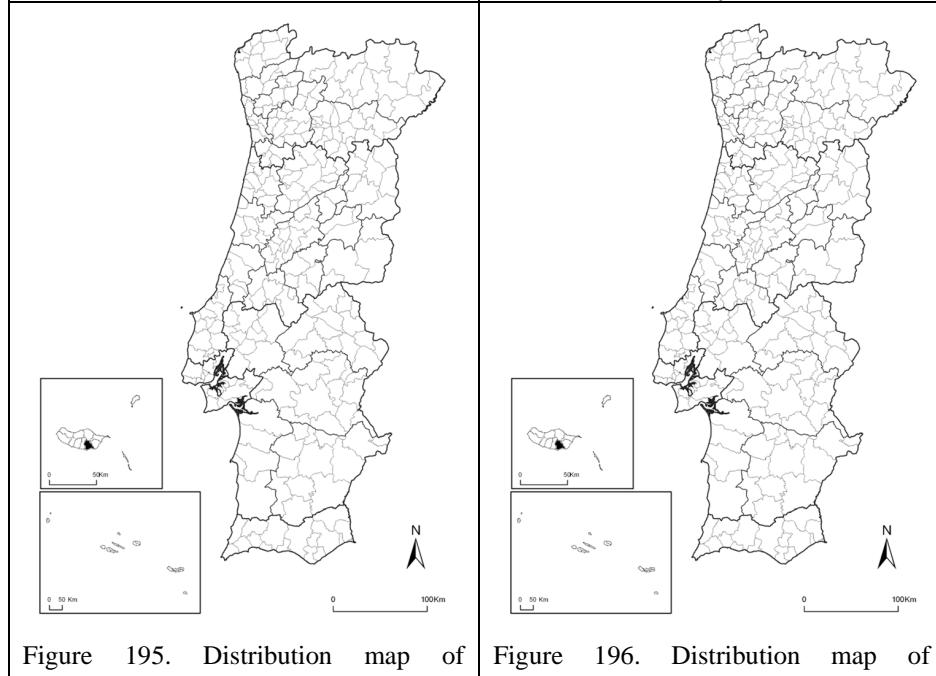
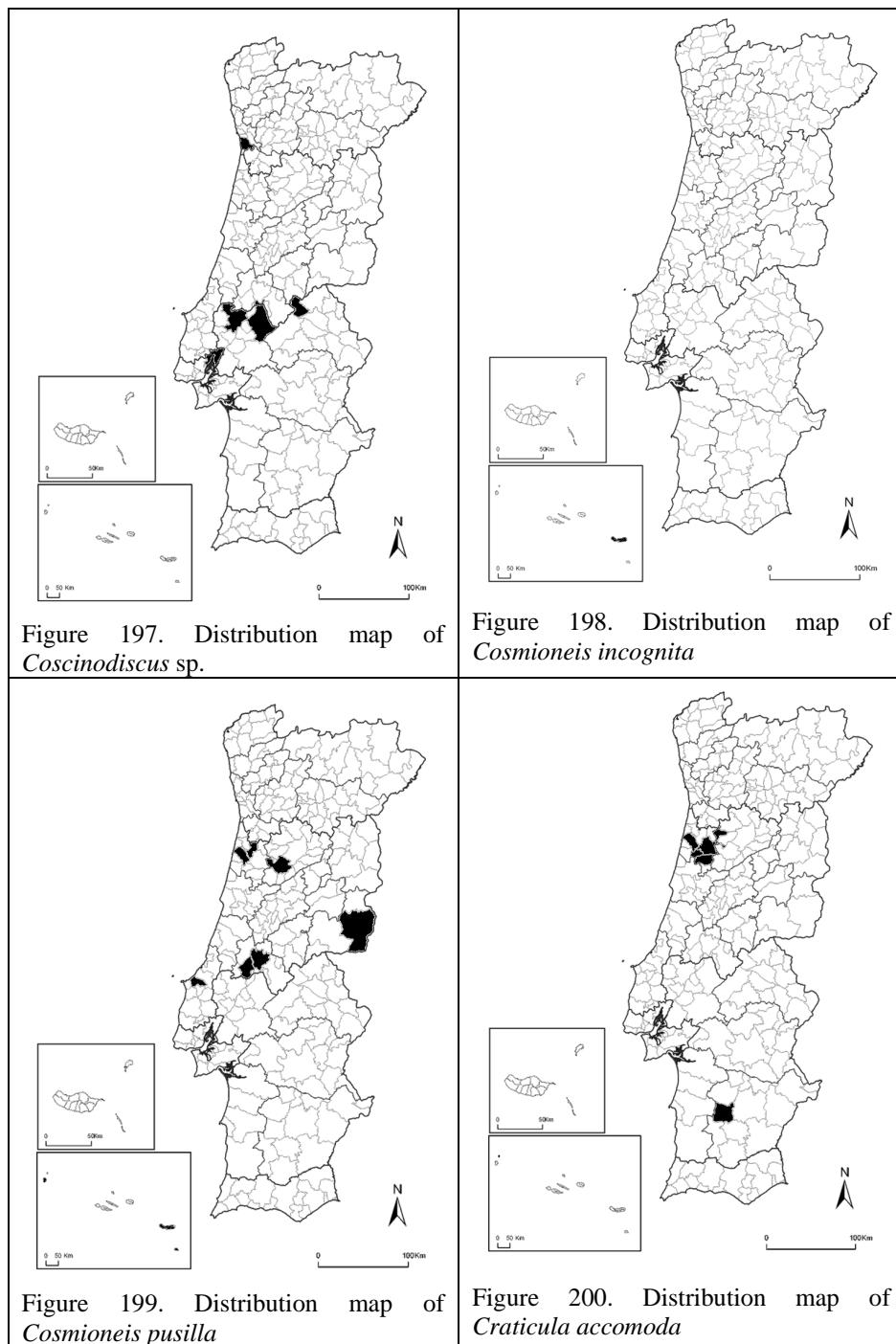


Figure 195. Distribution map of *Coscinodiscus nodulifer* f. *minor*

Figure 196. Distribution map of *Coscinodiscus oculus-iridis*



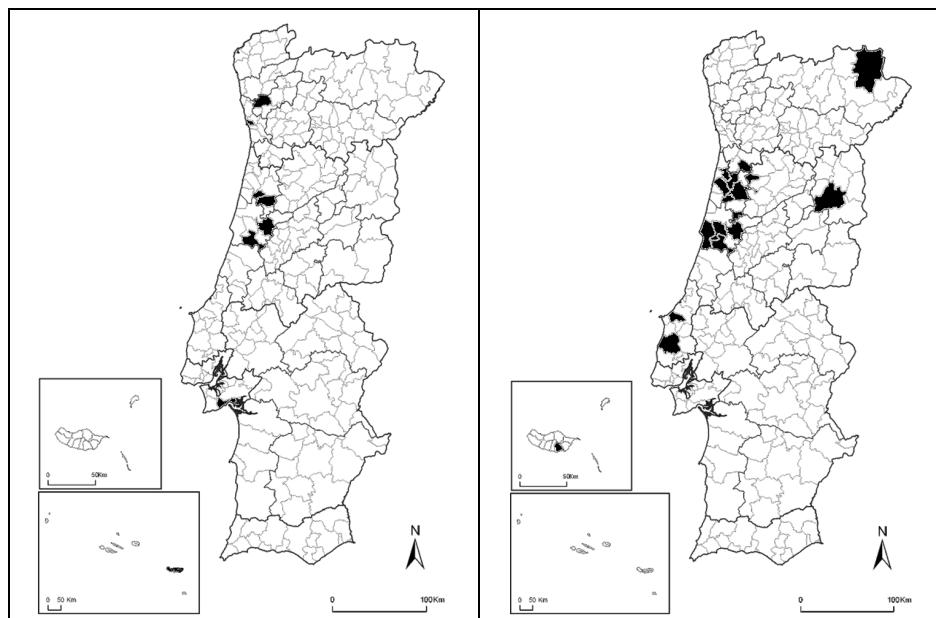


Figure 201. Distribution map of *Craticula ambigua*

Figure 202. Distribution map of *Craticula cuspidata*

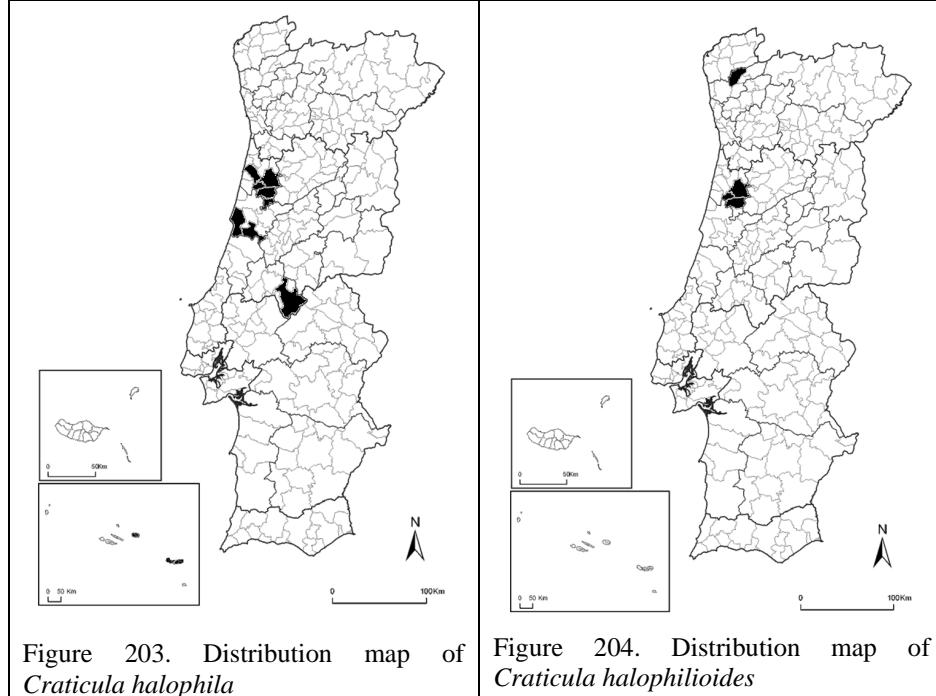
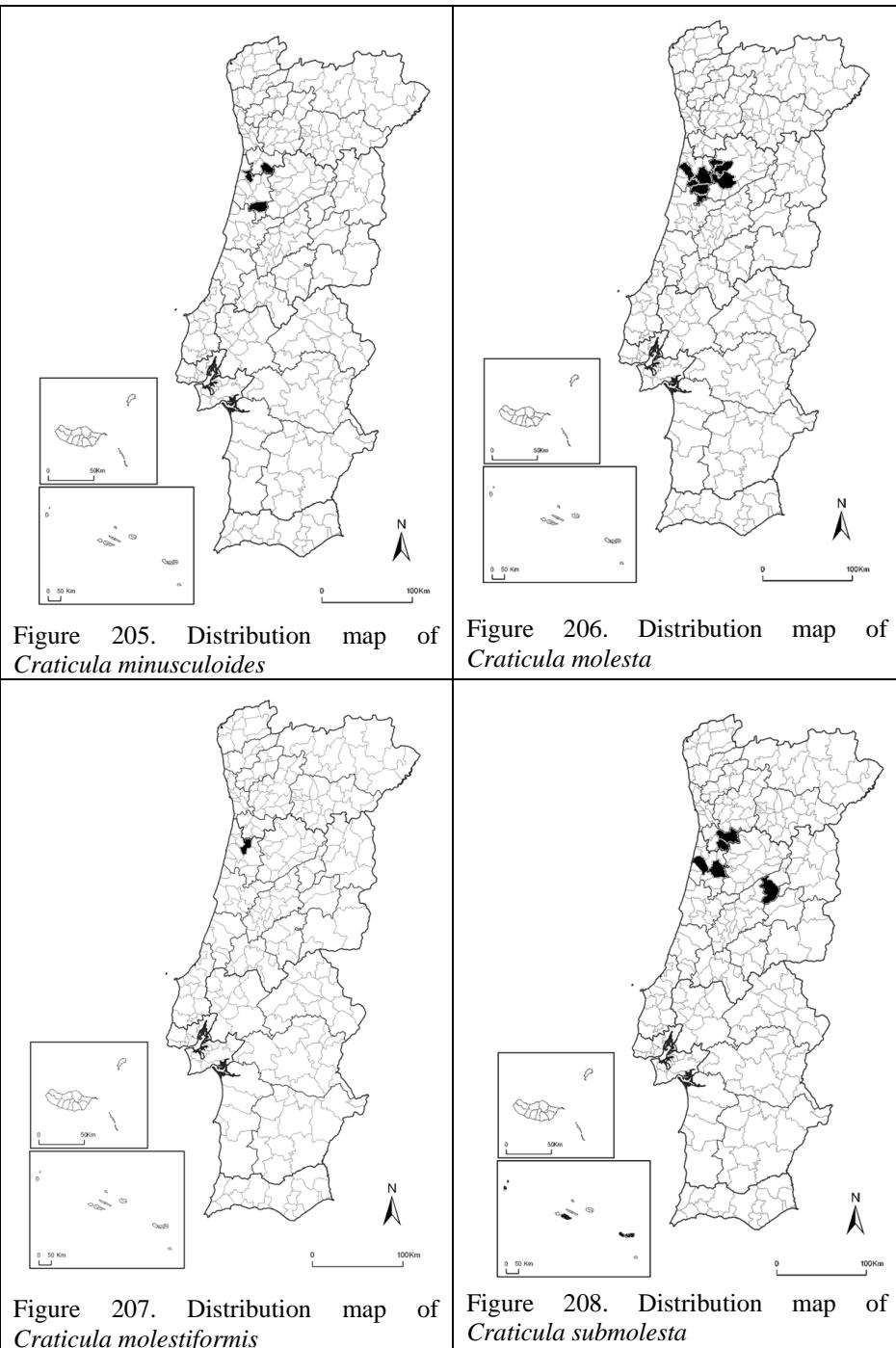
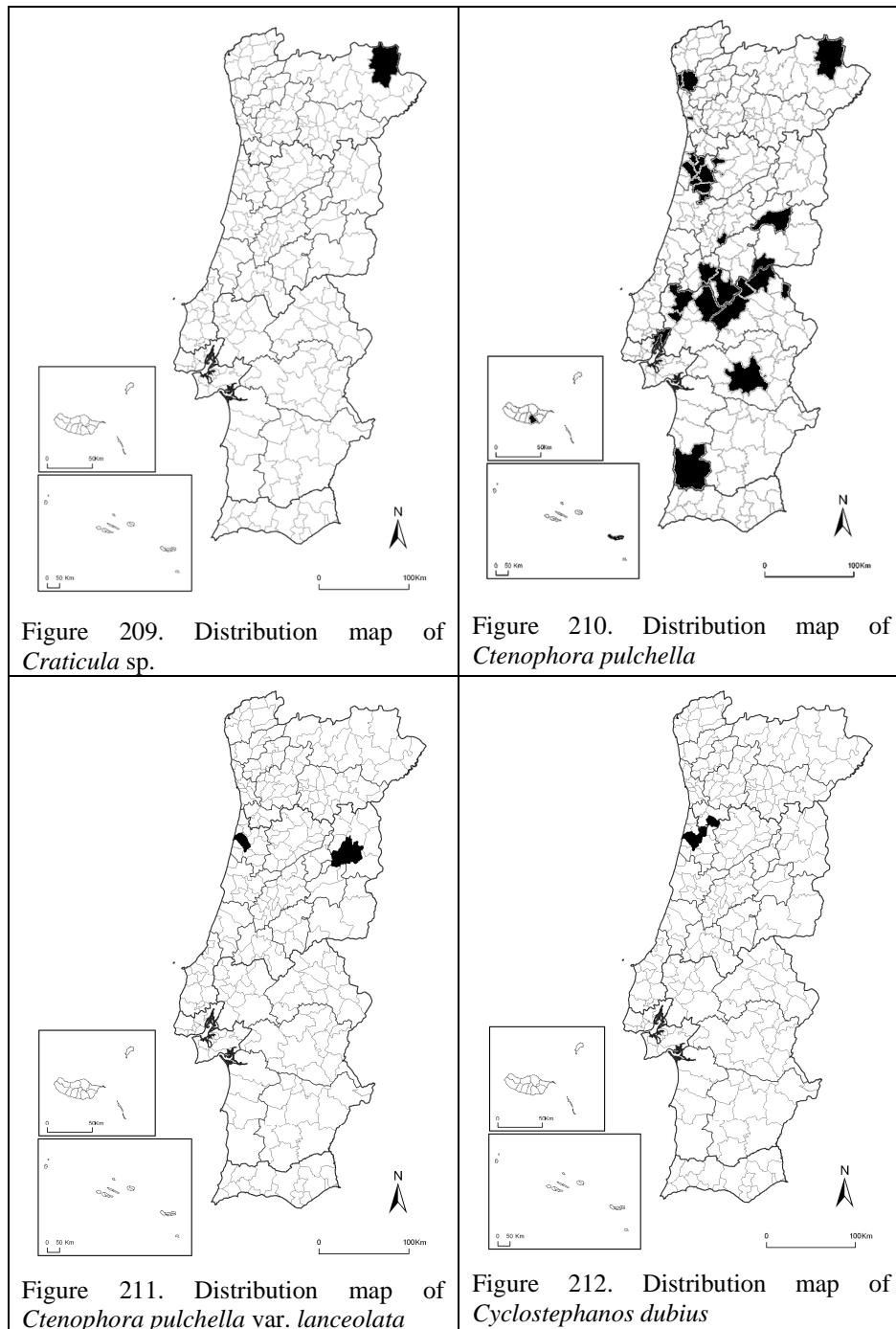


Figure 203. Distribution map of *Craticula halophila*

Figure 204. Distribution map of *Craticula halophiloides*





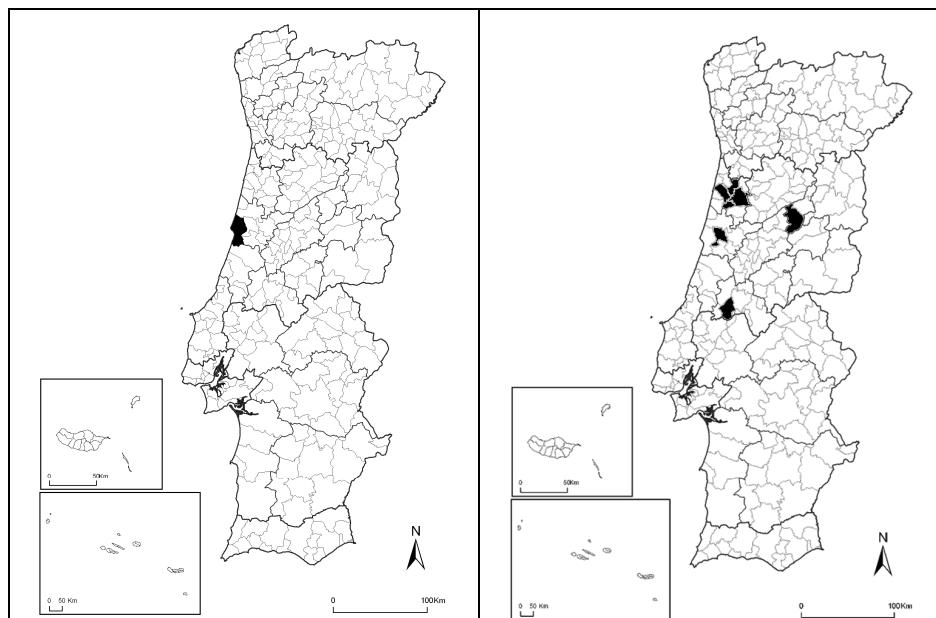


Figure 213. Distribution map of *Cyclostephanos invisitatus*

Figure 214. Distribution map of *Cyclotella atomus*

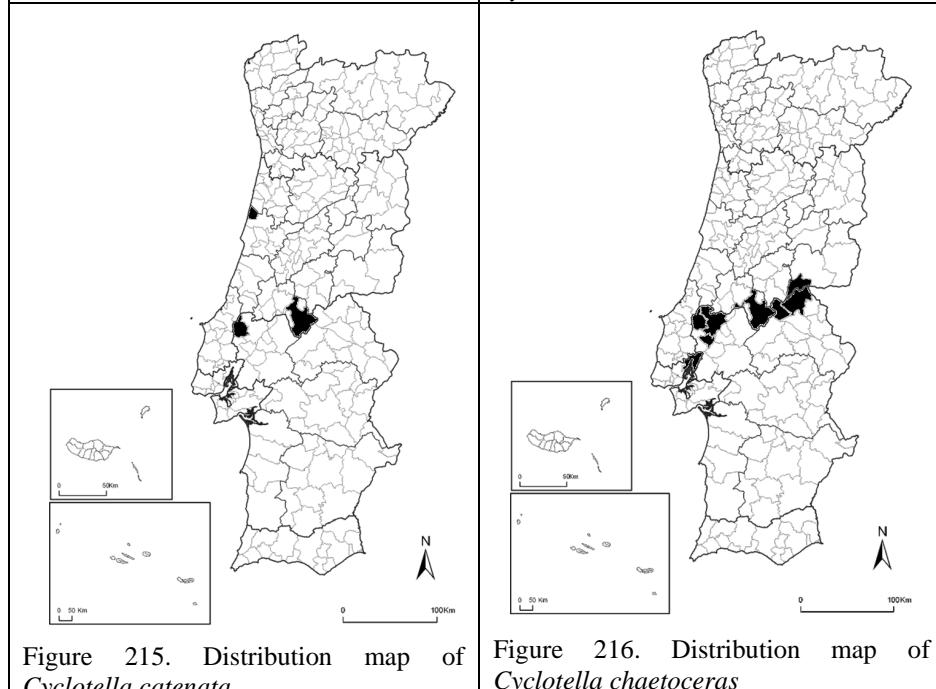
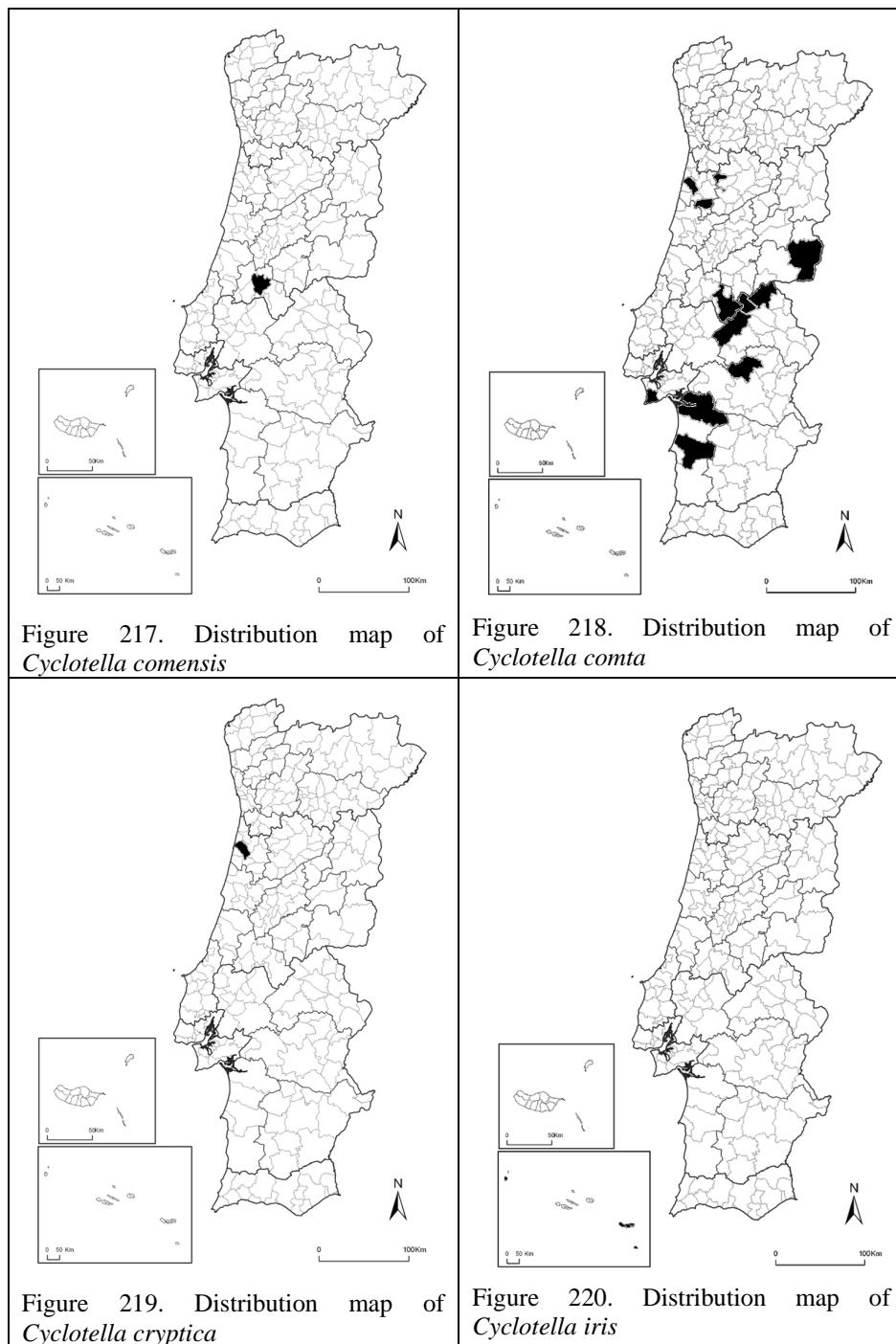
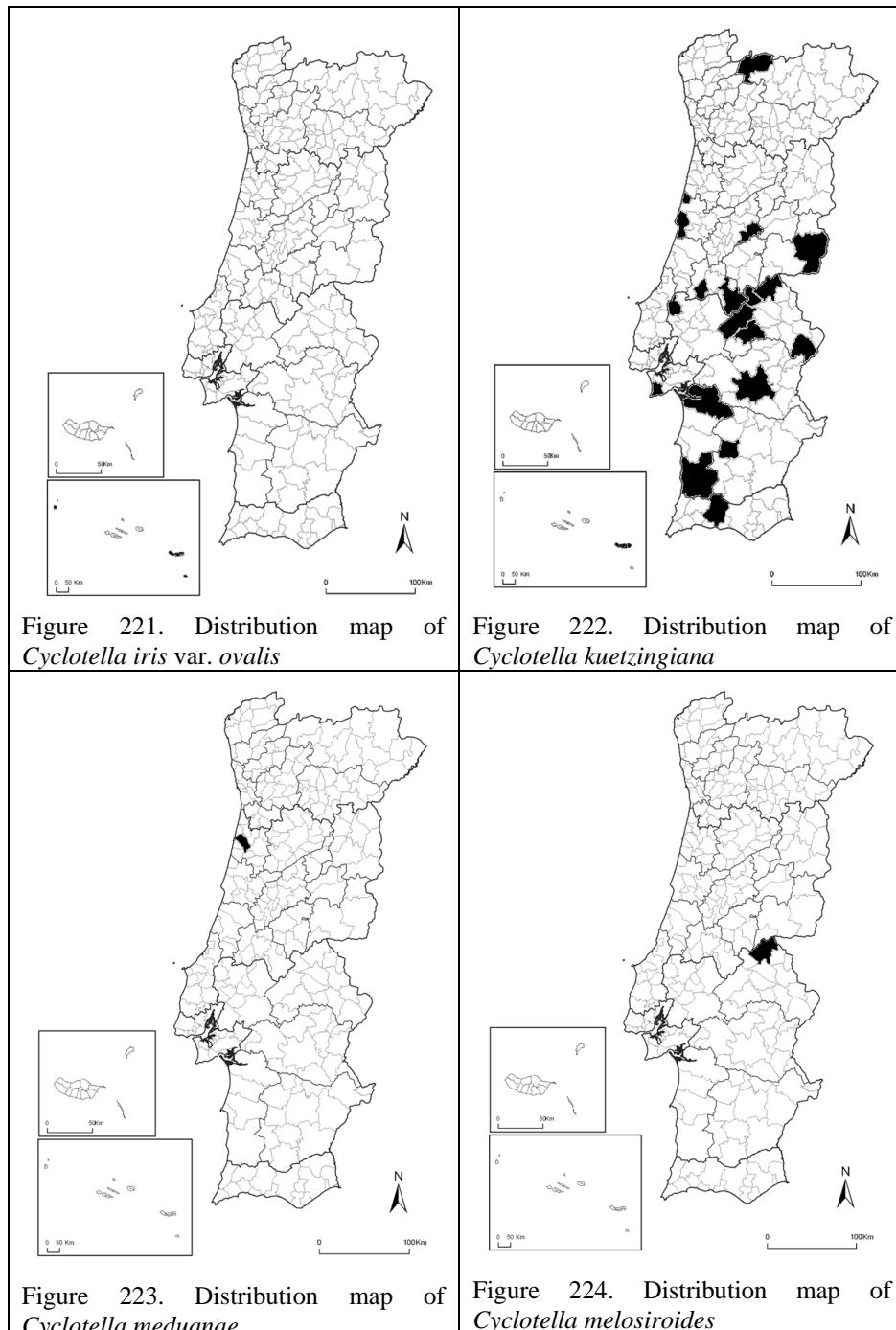
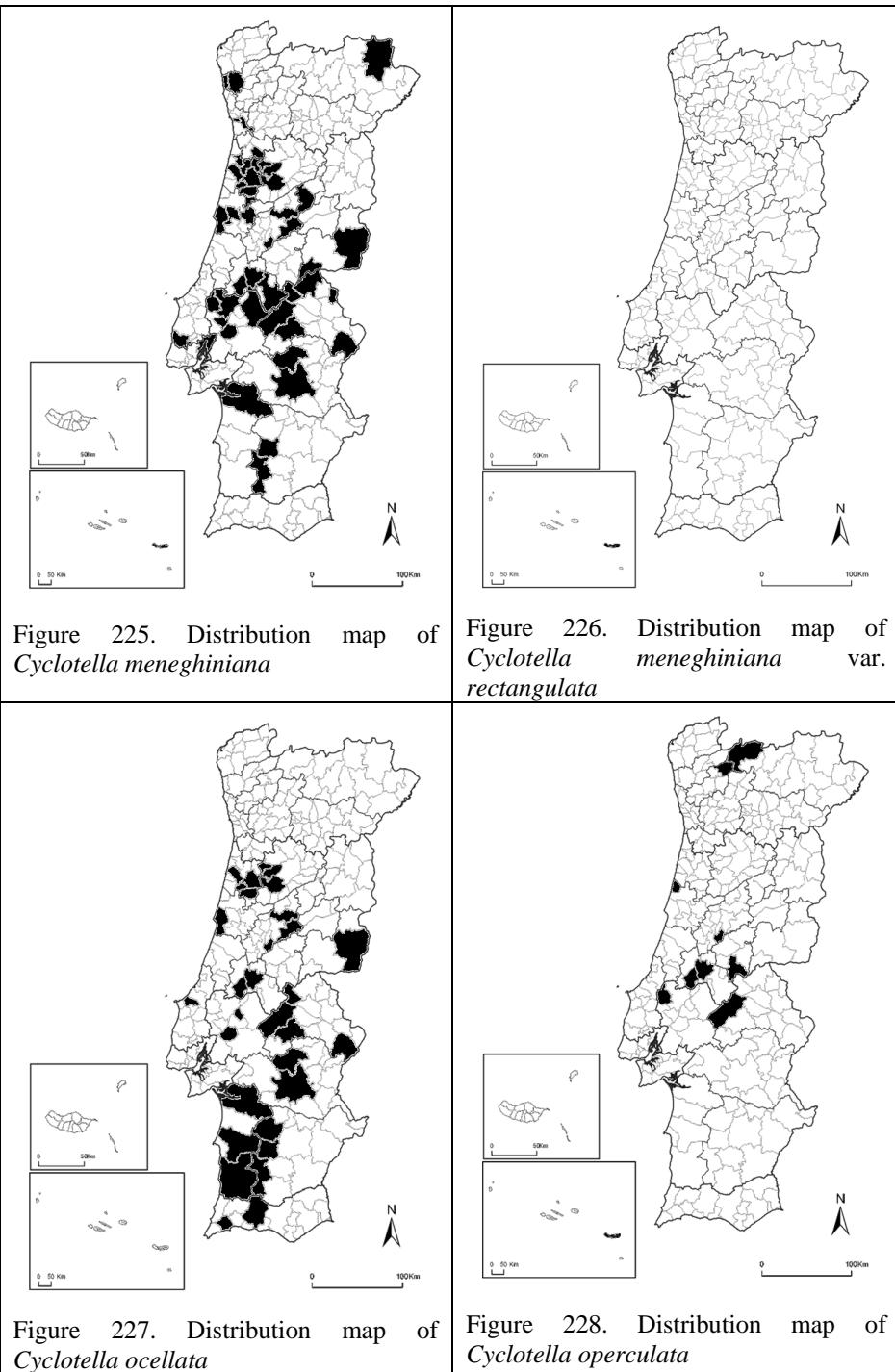


Figure 215. Distribution map of *Cyclotella catenata*

Figure 216. Distribution map of *Cyclotella chaetoceras*







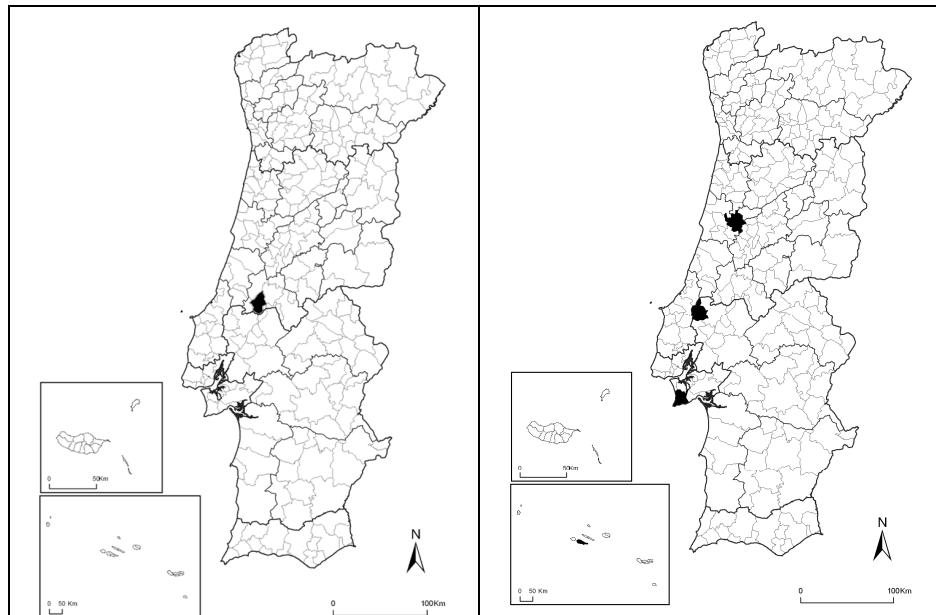


Figure 229. Distribution map of *Cyclotella plantonica*

Figure 230. Distribution map of *Cyclotella striata*

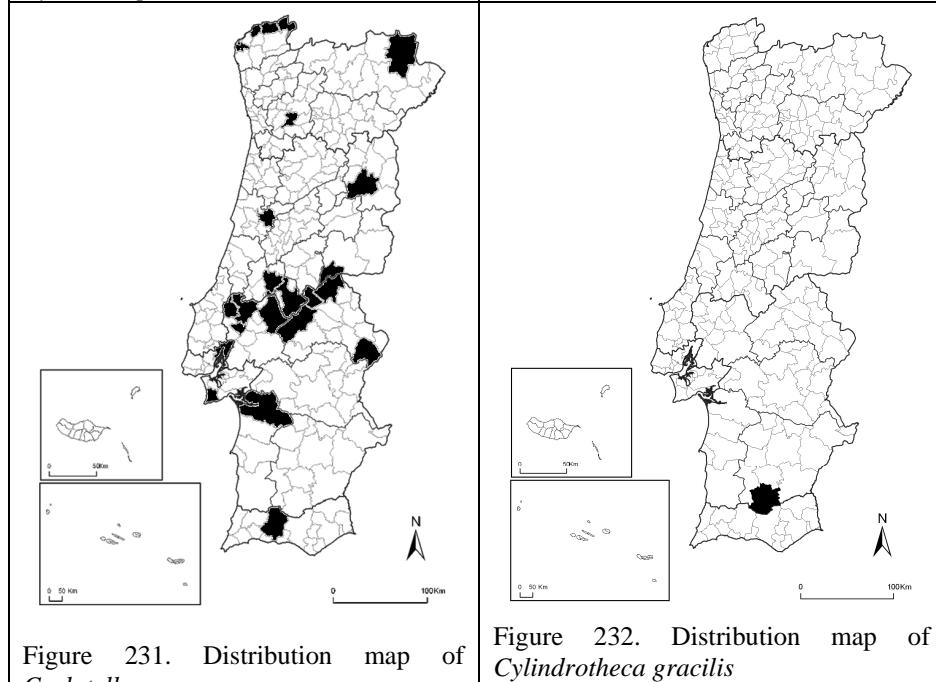


Figure 231. Distribution map of *Cyclotella* sp.

Figure 232. Distribution map of *Cylindrotheca gracilis*

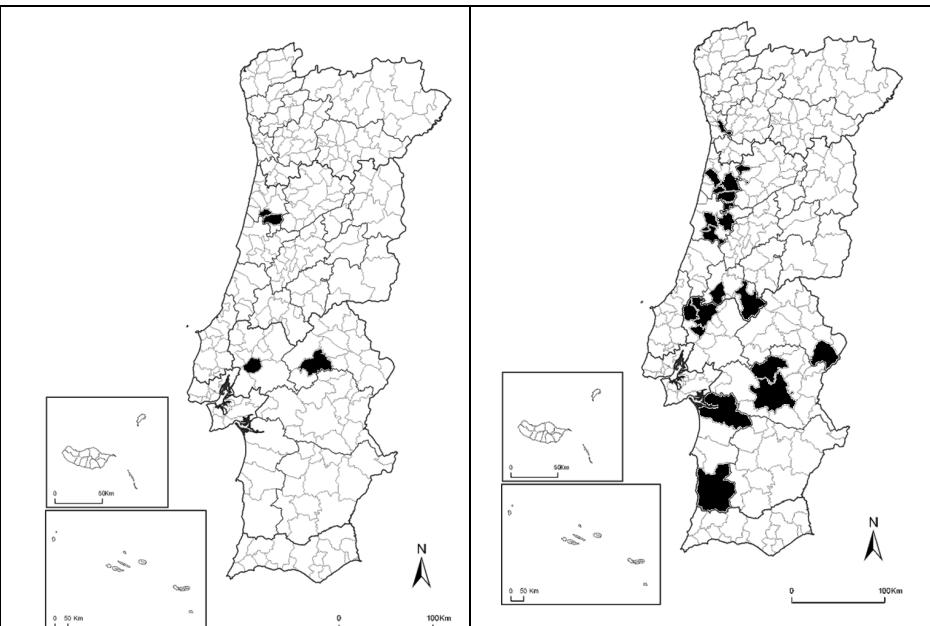


Figure 233. Distribution map of *Cymatopleura elliptica*

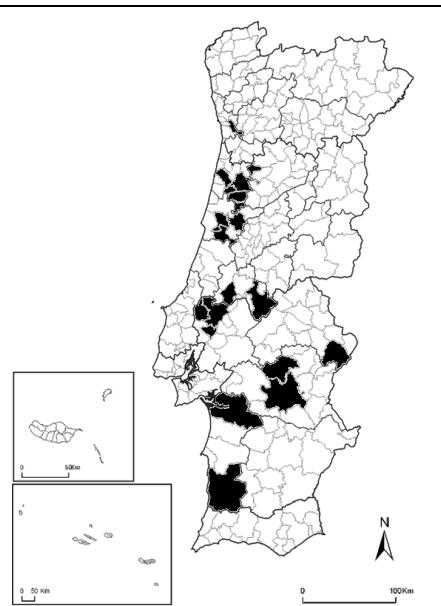


Figure 234. Distribution map of *Cymatopleura solea*

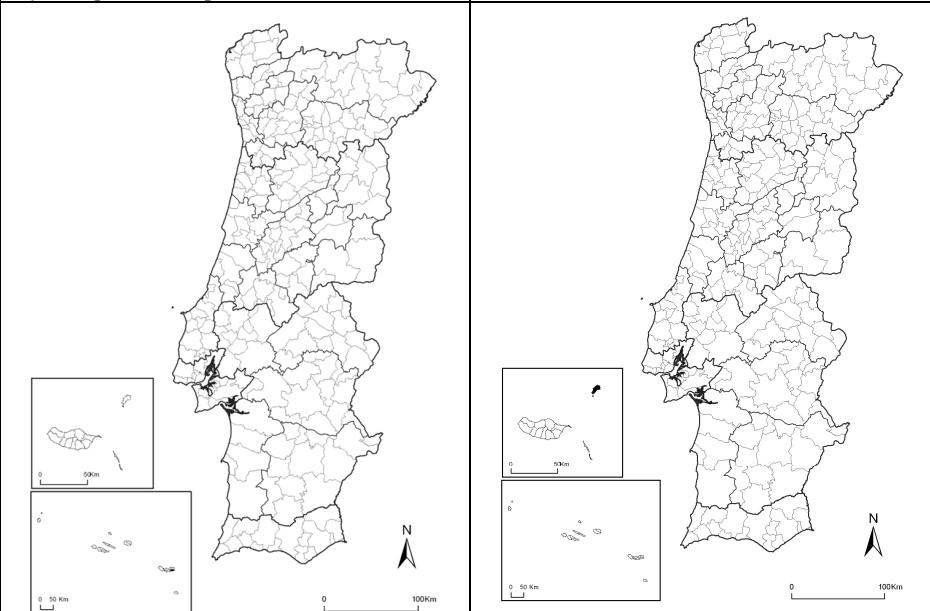


Figure 235. Distribution map of *Cymatosira belgica*

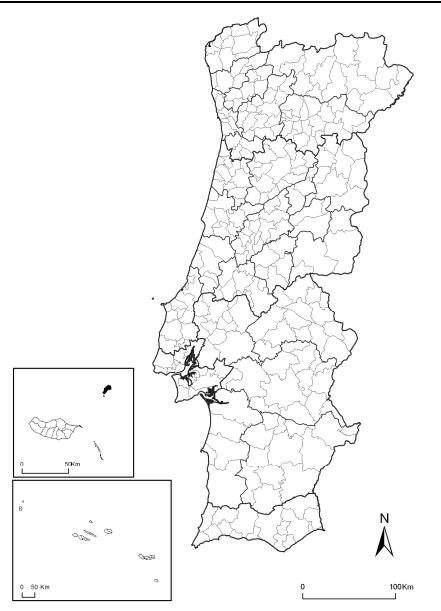


Figure 236. Distribution map of *Cymbella aequalis* var. *subaequalis*

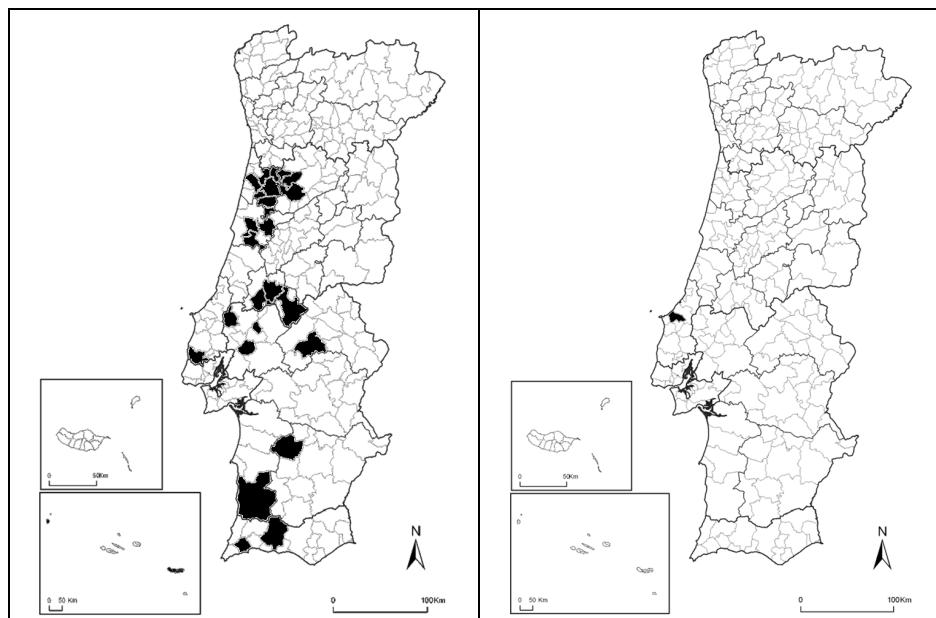


Figure 237. Distribution map of *Cymbella affinis*

Figure 238. Distribution map of *Cymbella amphioxys*

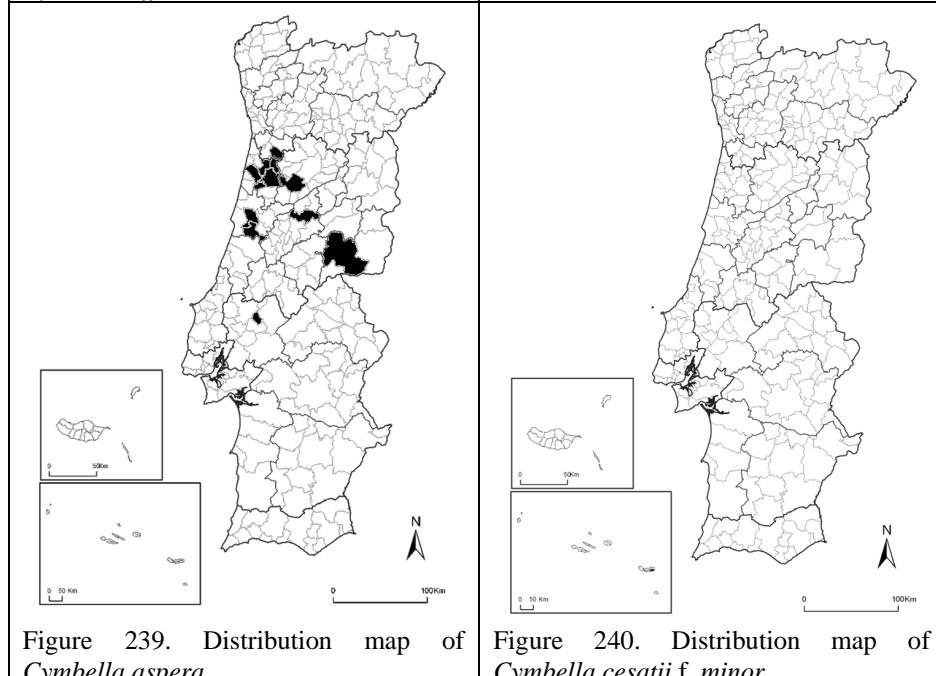
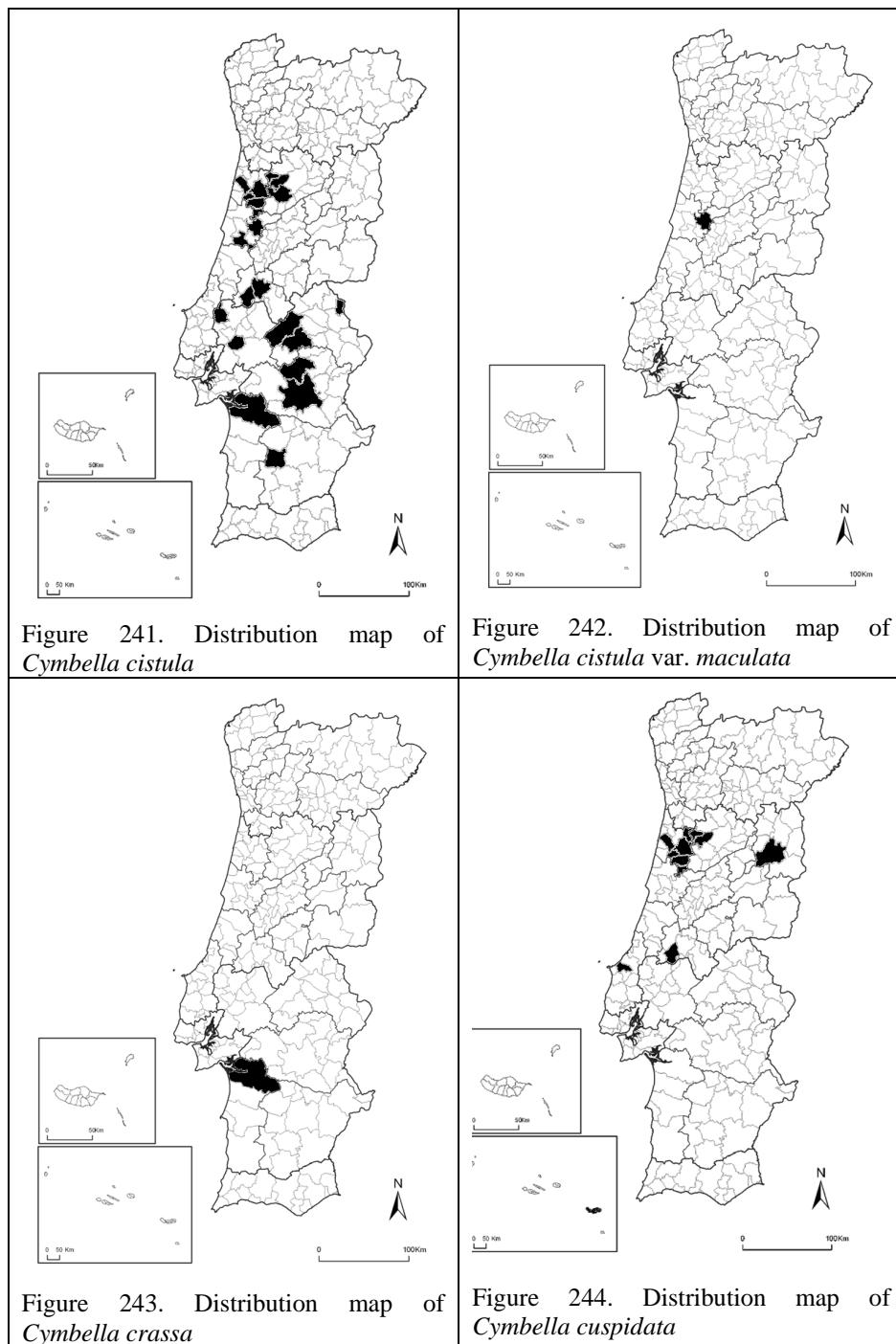
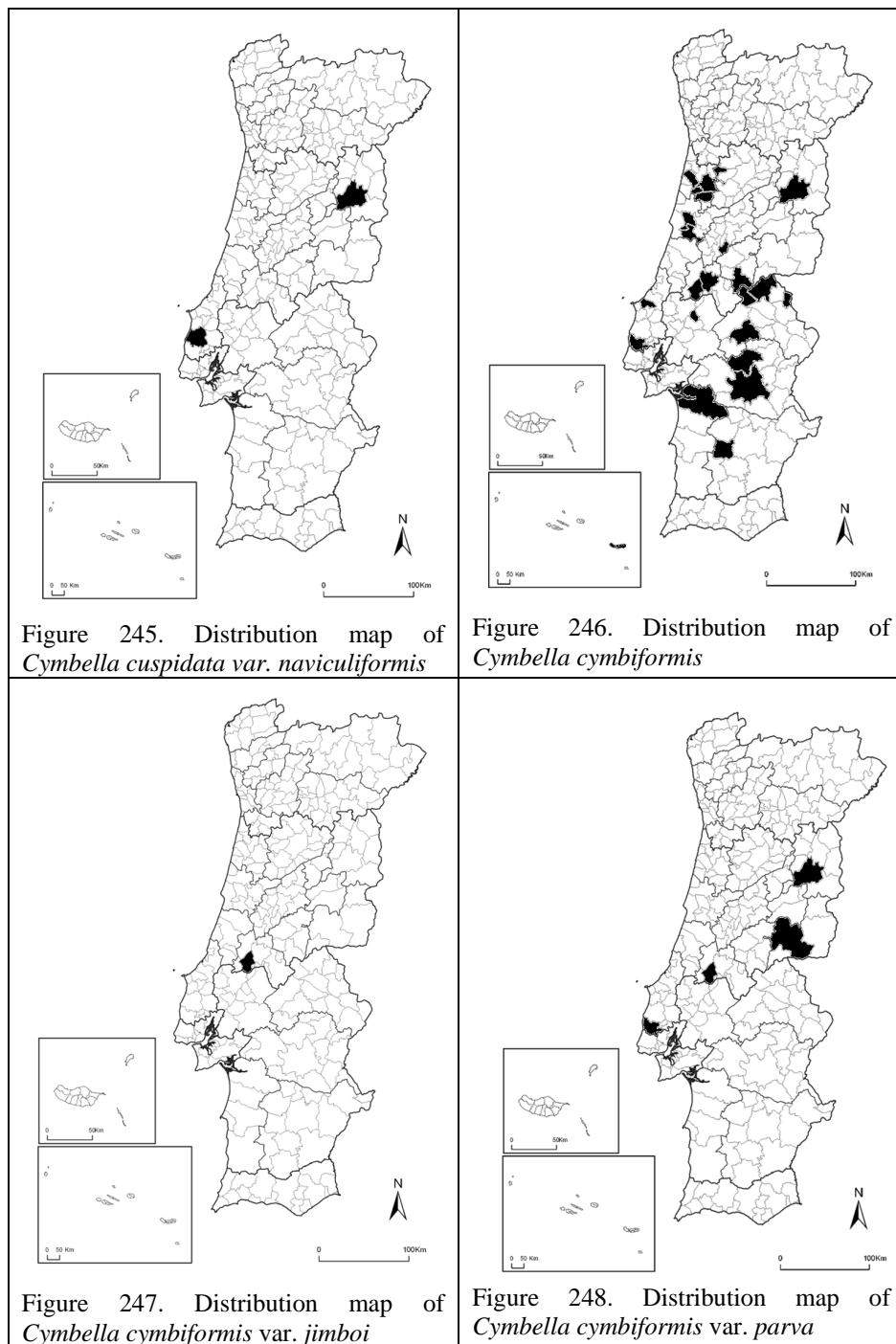
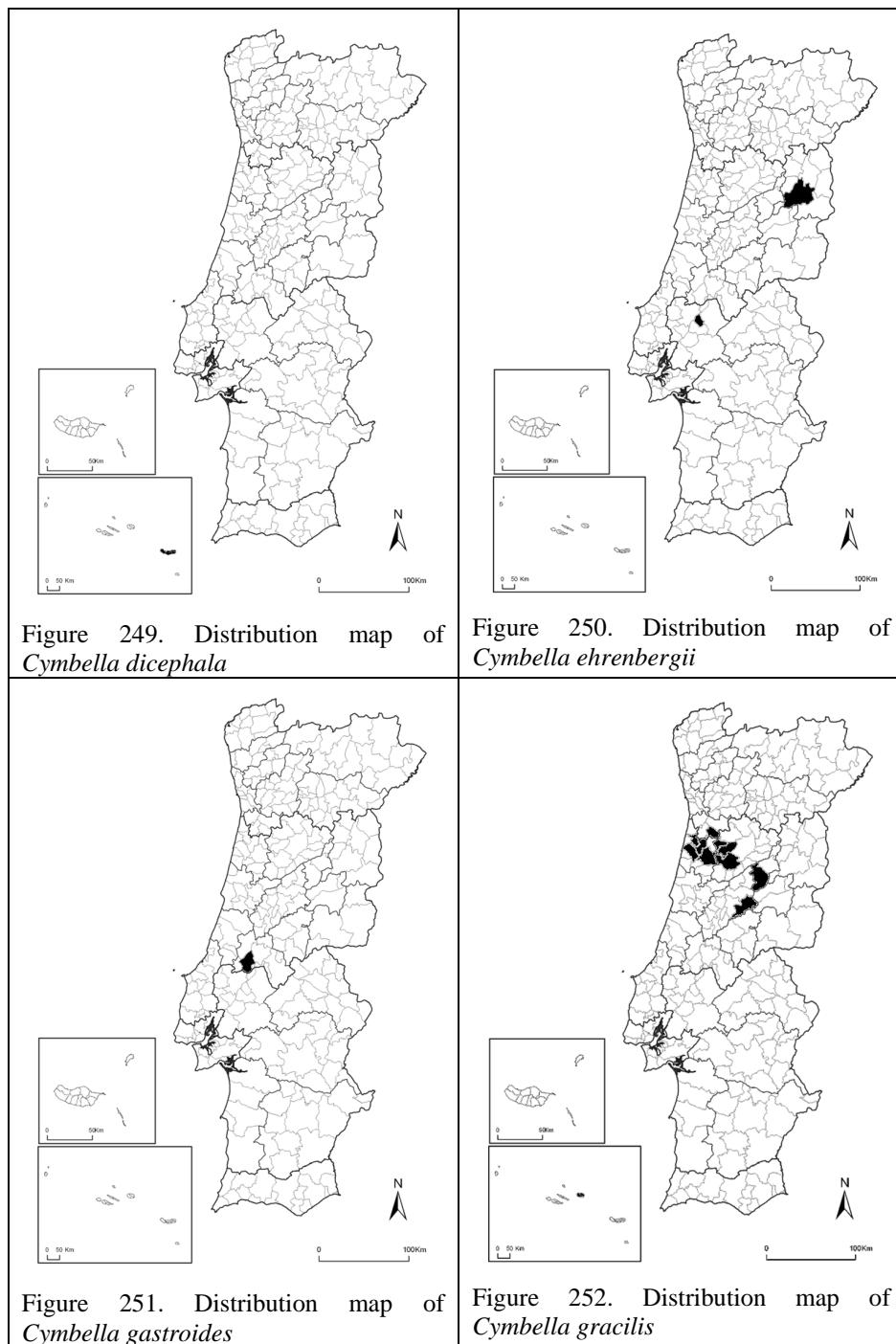


Figure 239. Distribution map of *Cymbella aspera*

Figure 240. Distribution map of *Cymbella cesatii* f. *minor*







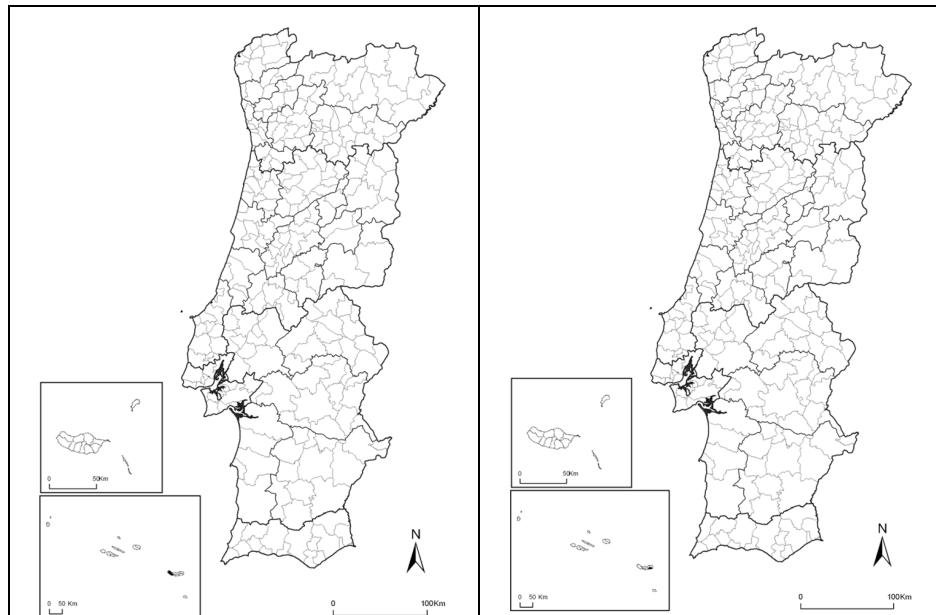


Figure 253. Distribution map of *Cymbella gracilis* var. *capitata*

Figure 254. Distribution map of *Cymbella gracilis* var. *laevis*

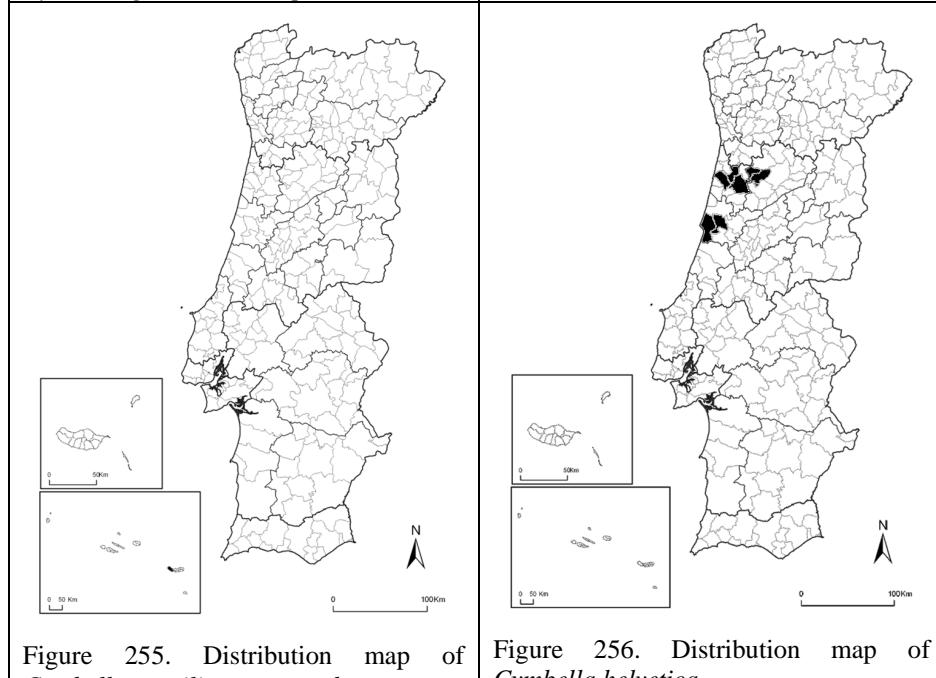
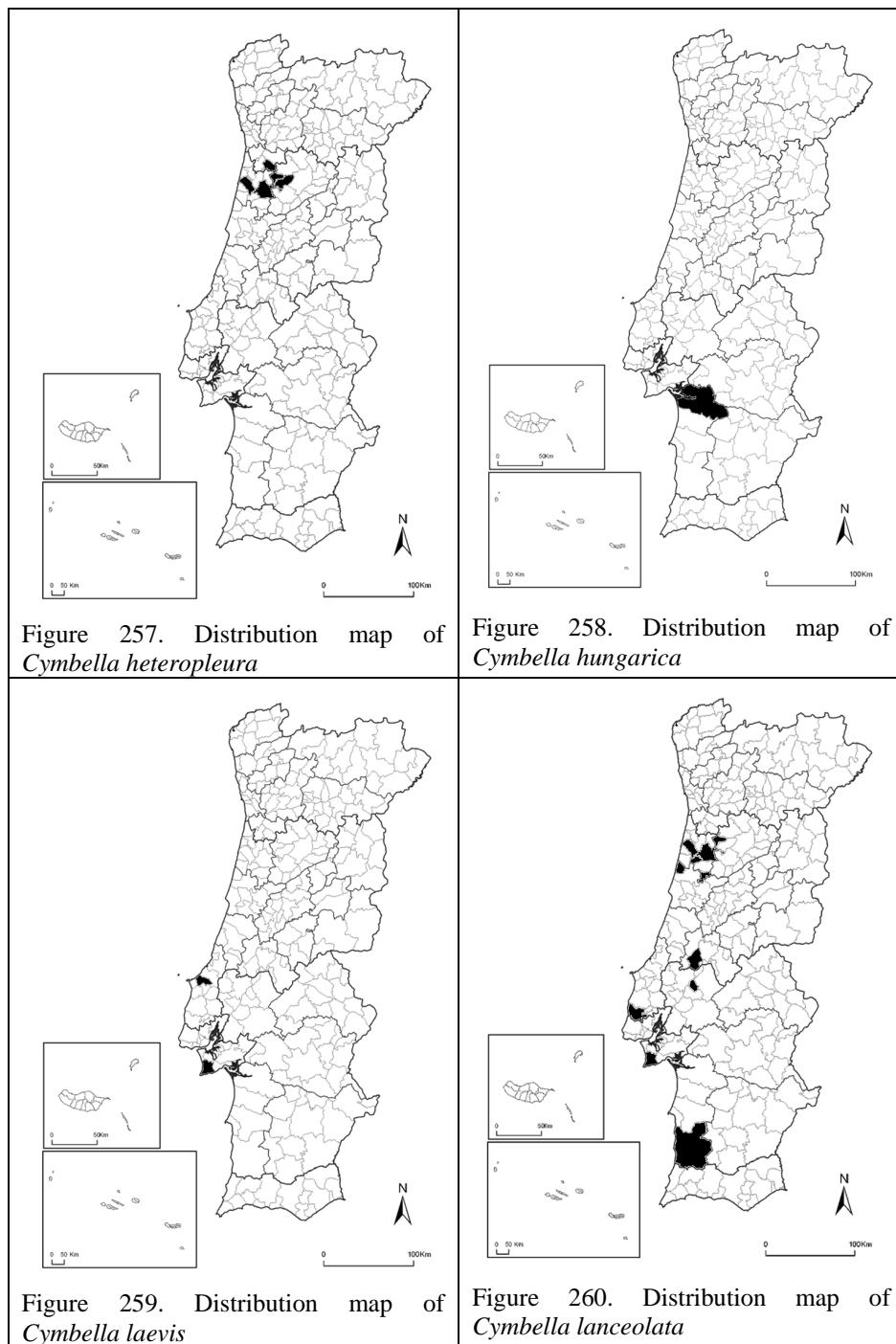
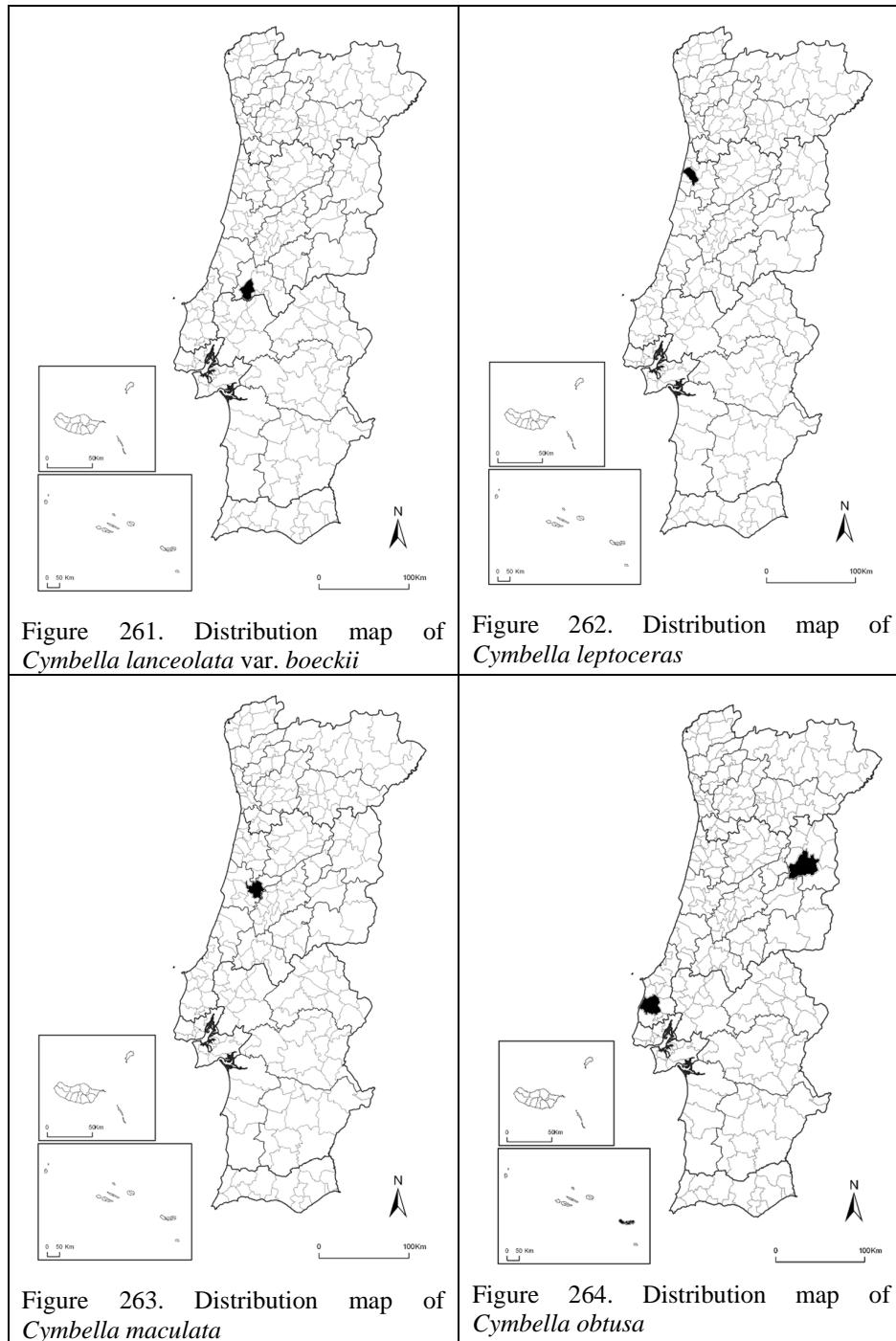
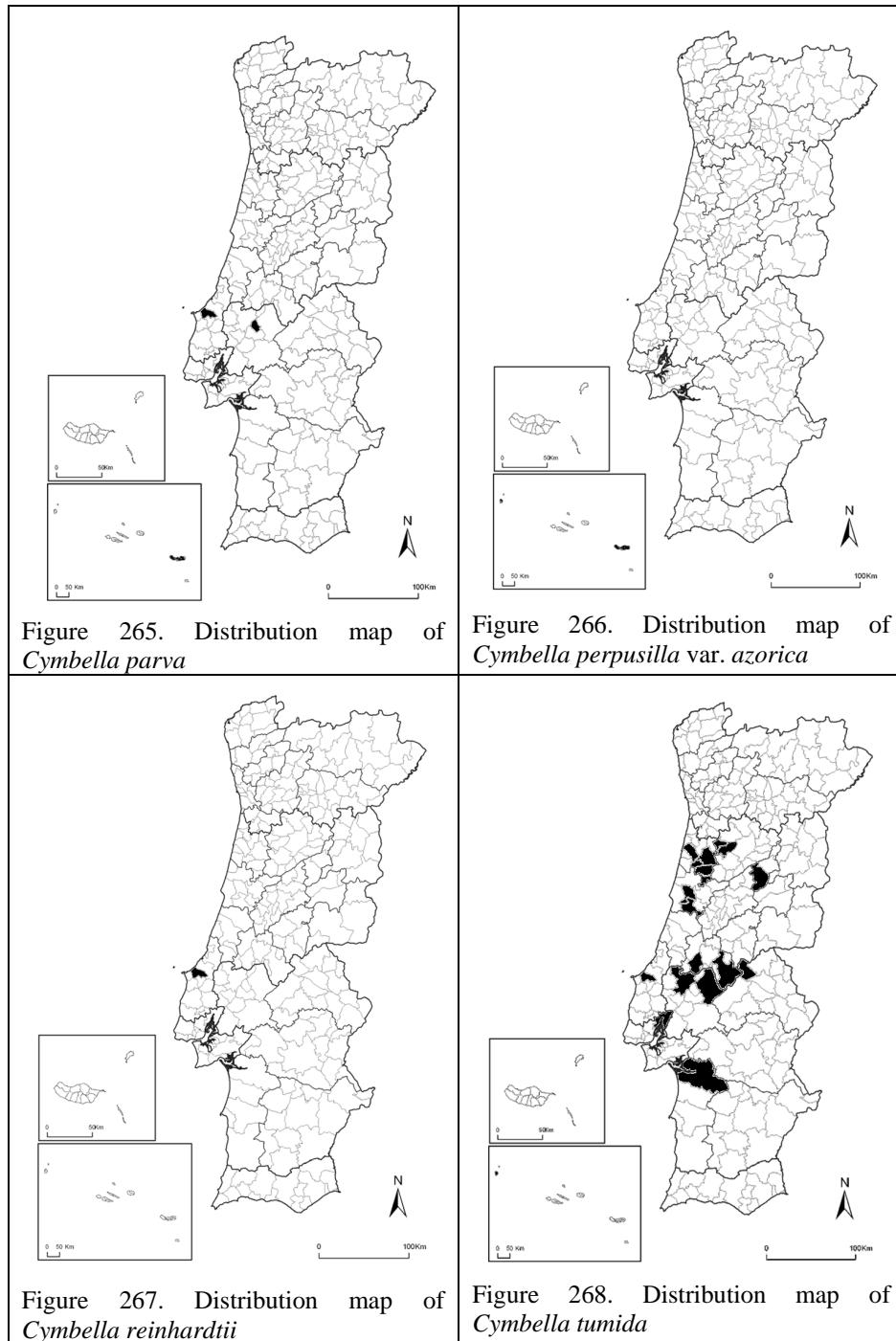


Figure 255. Distribution map of *Cymbella gracilis* var. *rotundata*

Figure 256. Distribution map of *Cymbella helvetica*







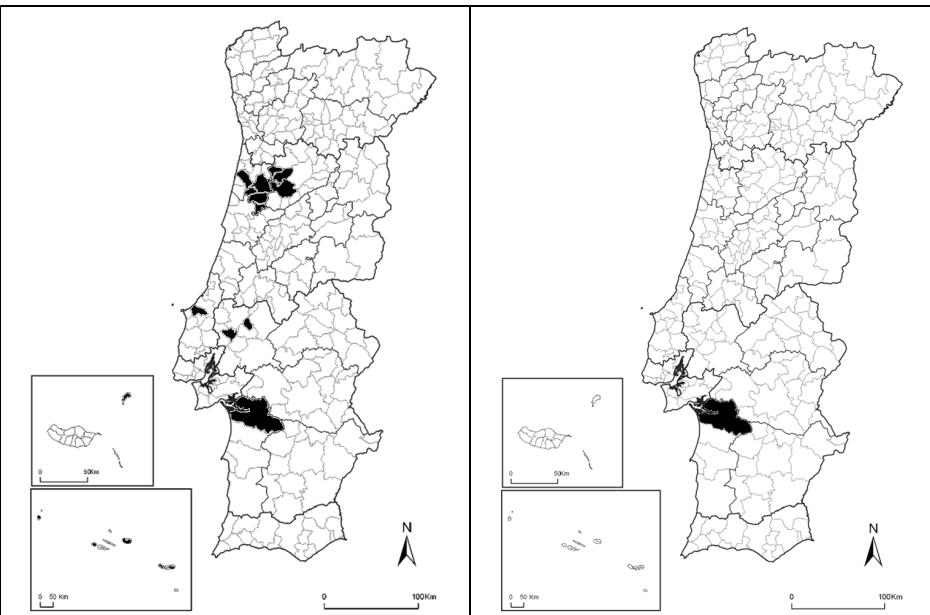


Figure 269. Distribution map of *Cymbella turgida*

Figure 270. Distribution map of *Cymbella turgidula*

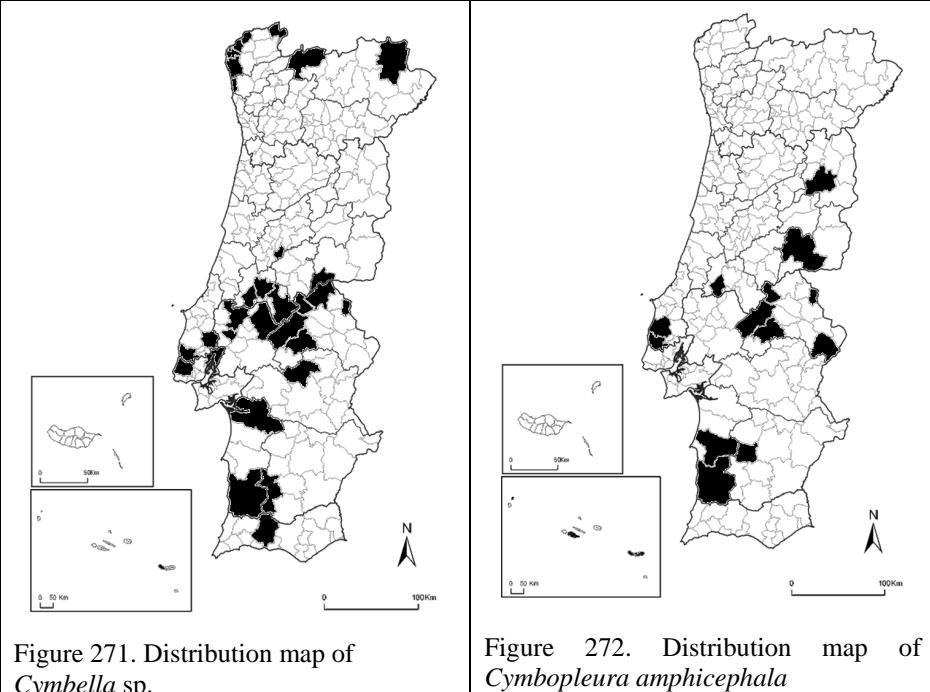


Figure 271. Distribution map of *Cymbella* sp.

Figure 272. Distribution map of *Cymbopleura amphicephala*

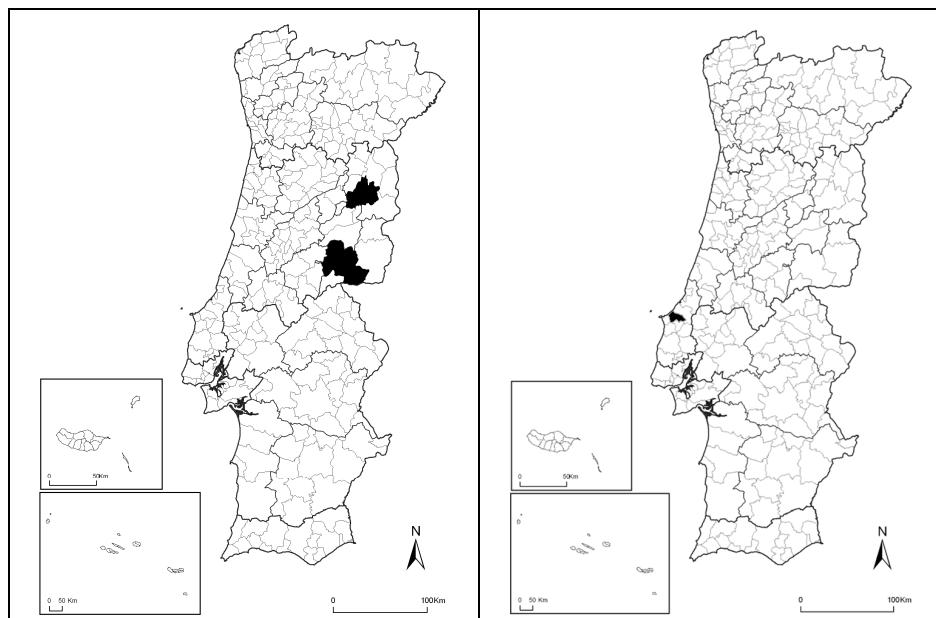


Figure 273. Distribution map of *Cymbopleura anglica*

Figure 274. Distribution map of *Cymbopleura hauckii*

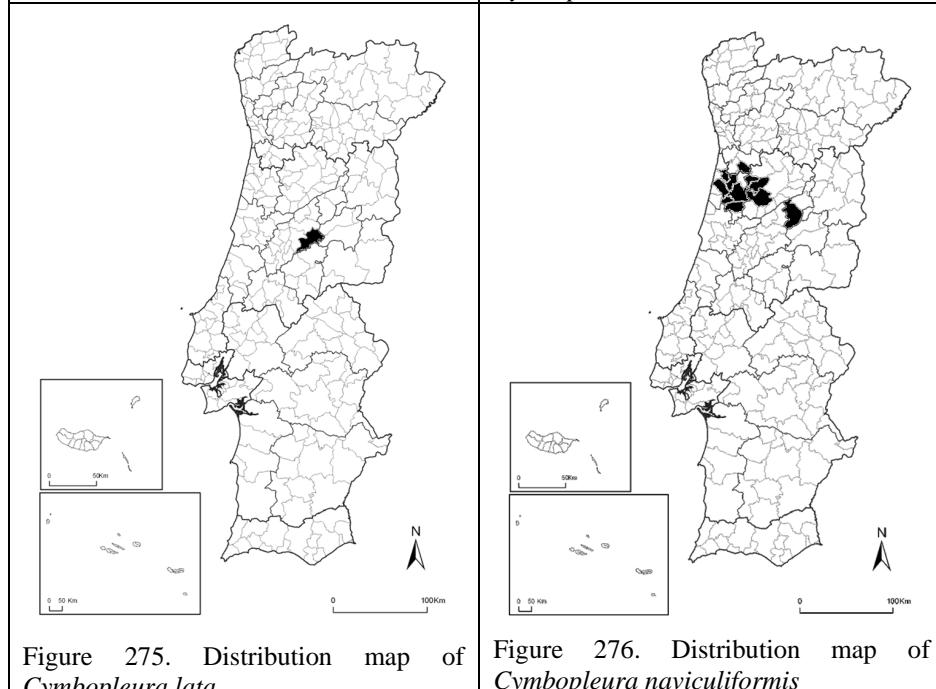
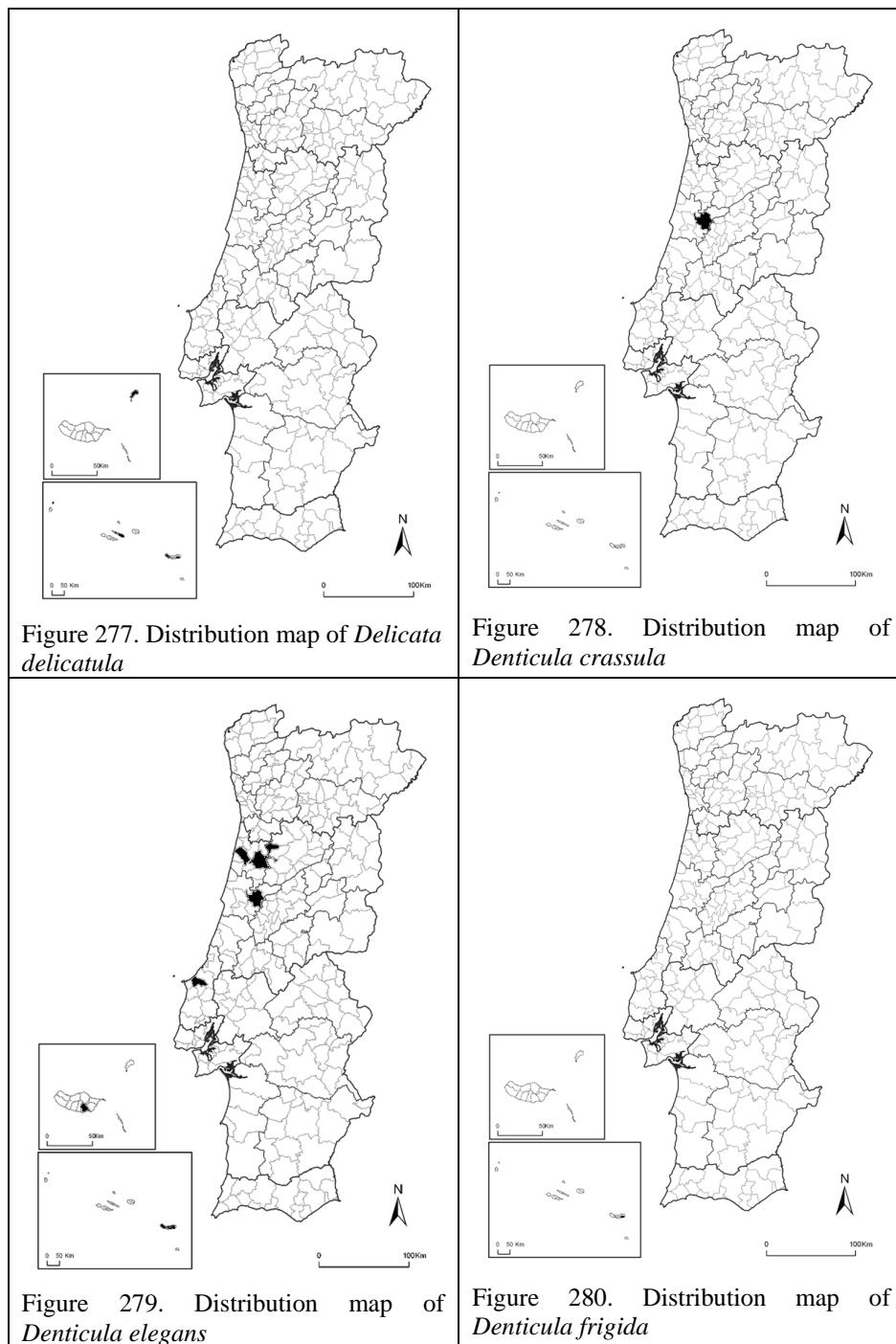
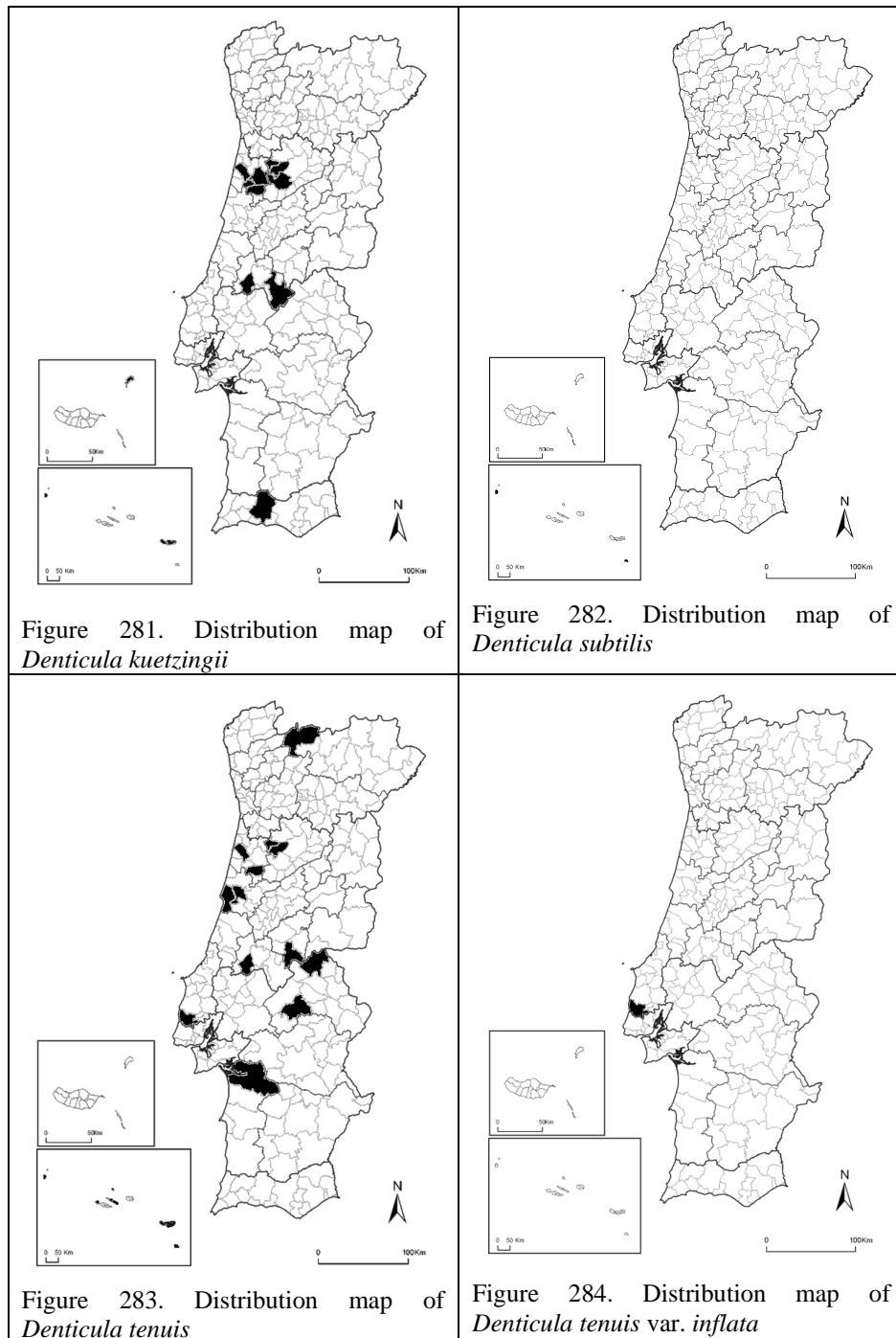
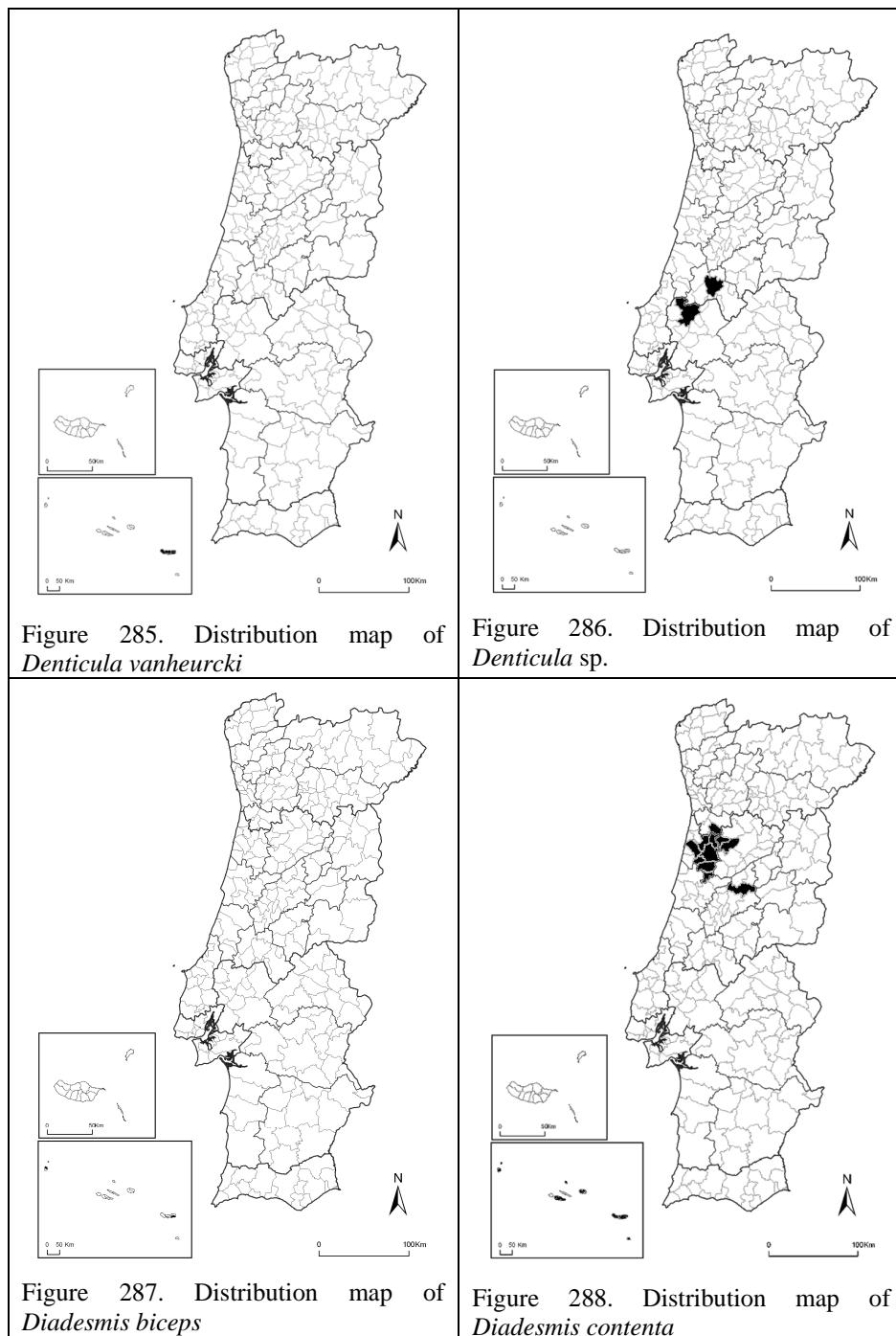


Figure 275. Distribution map of *Cymbopleura lata*

Figure 276. Distribution map of *Cymbopleura naviculiformis*







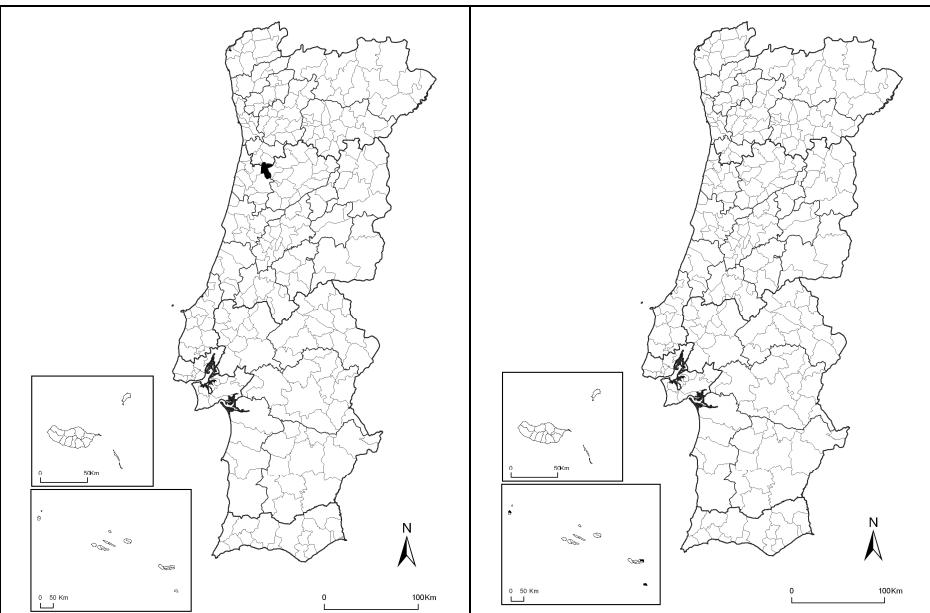


Figure 289. Distribution map of *Diadesmis contenta* var. *biceps*

Figure 290. Distribution map of *Diadesmis contenta* var. *parallela*

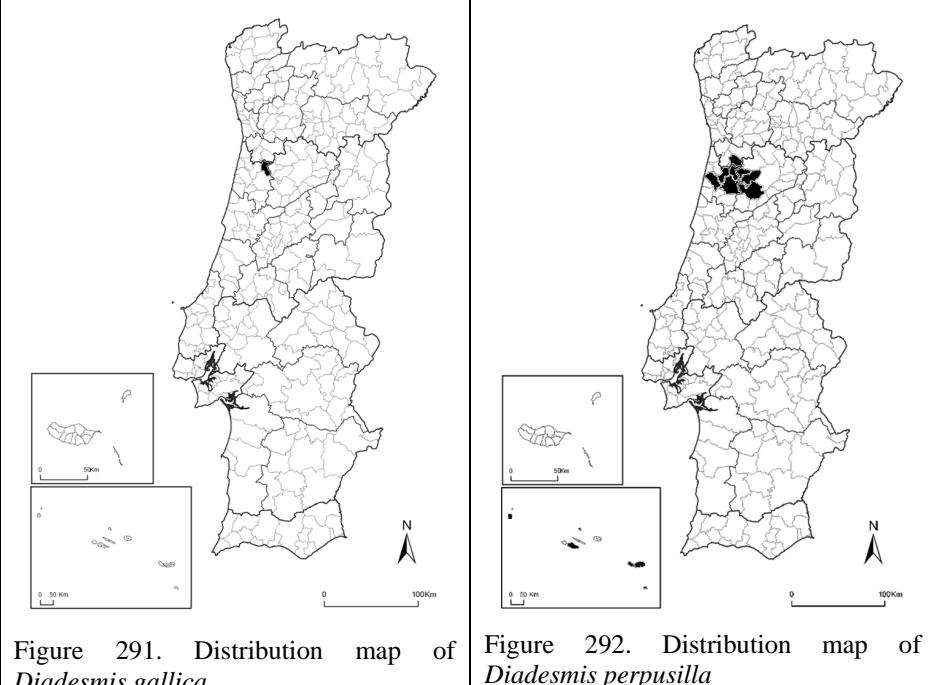
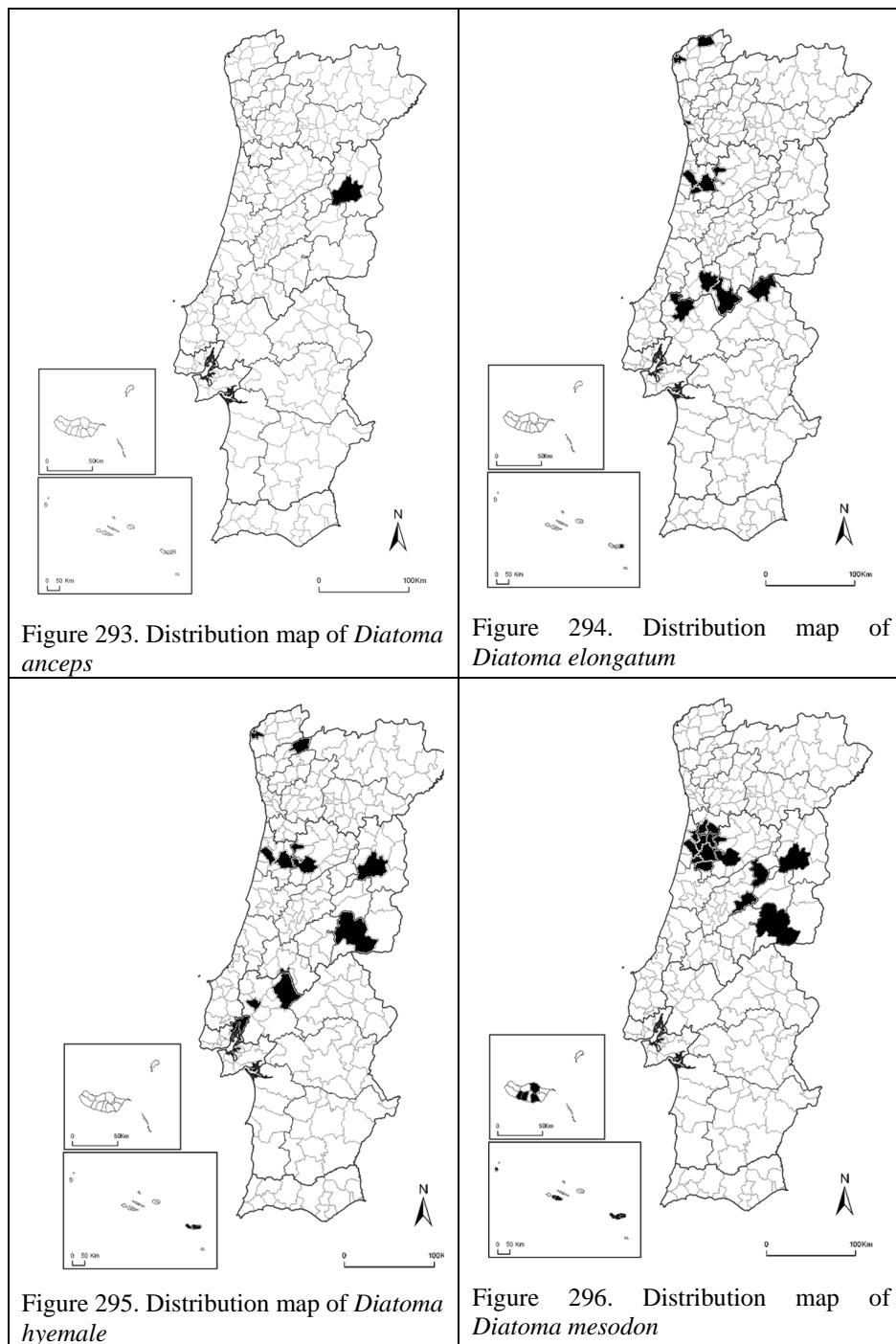
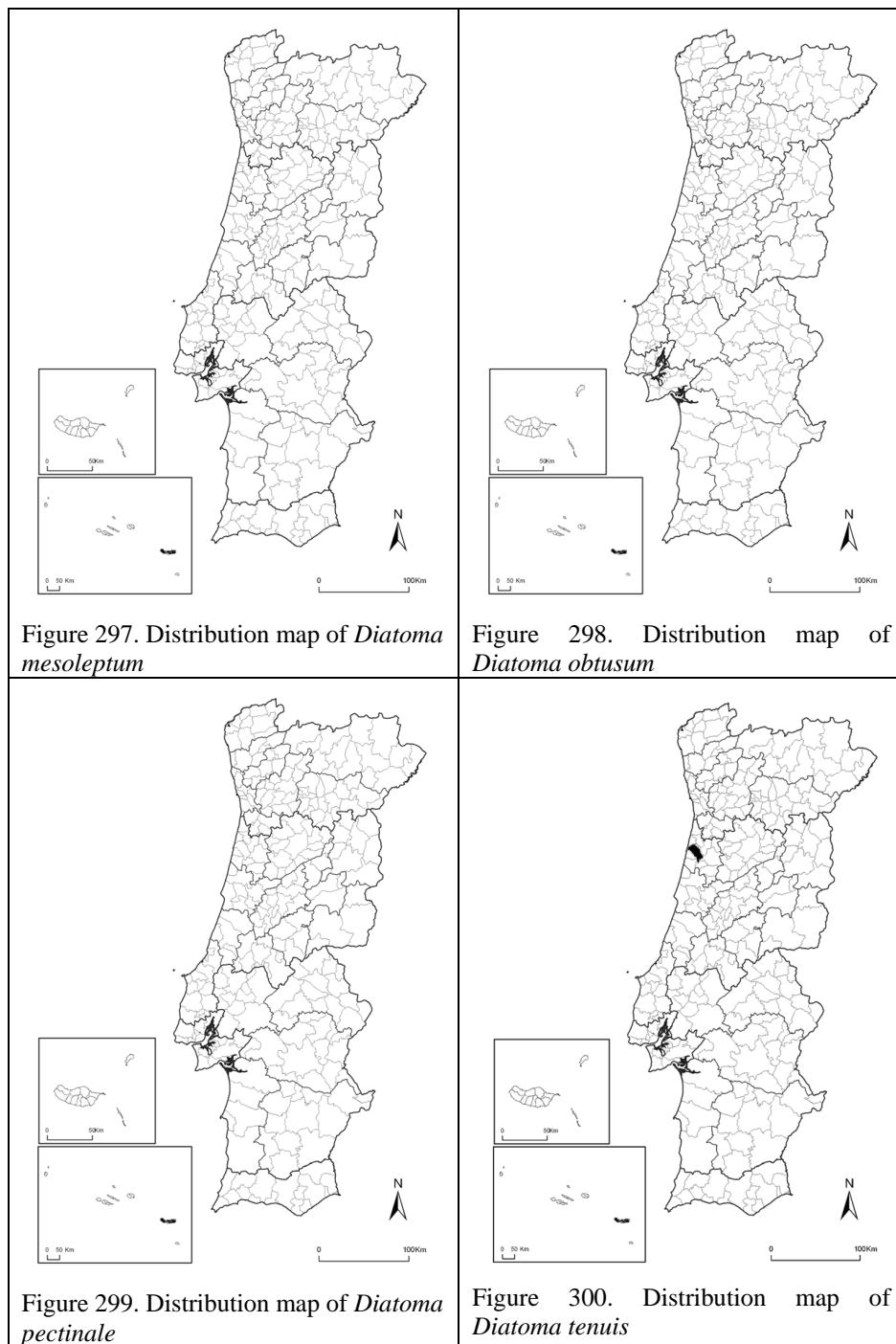
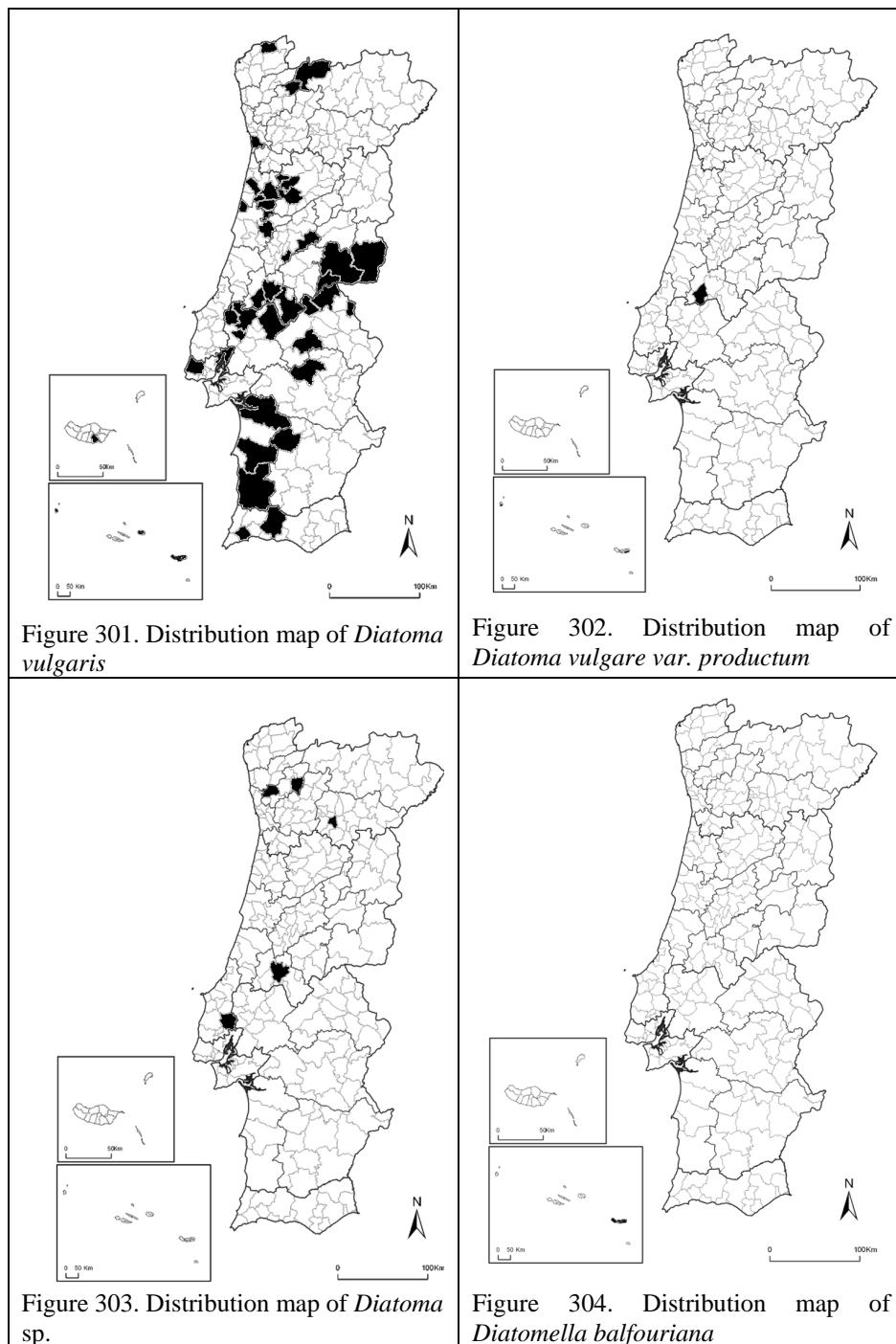


Figure 291. Distribution map of *Diadesmis gallica*

Figure 292. Distribution map of *Diadesmis perpusilla*







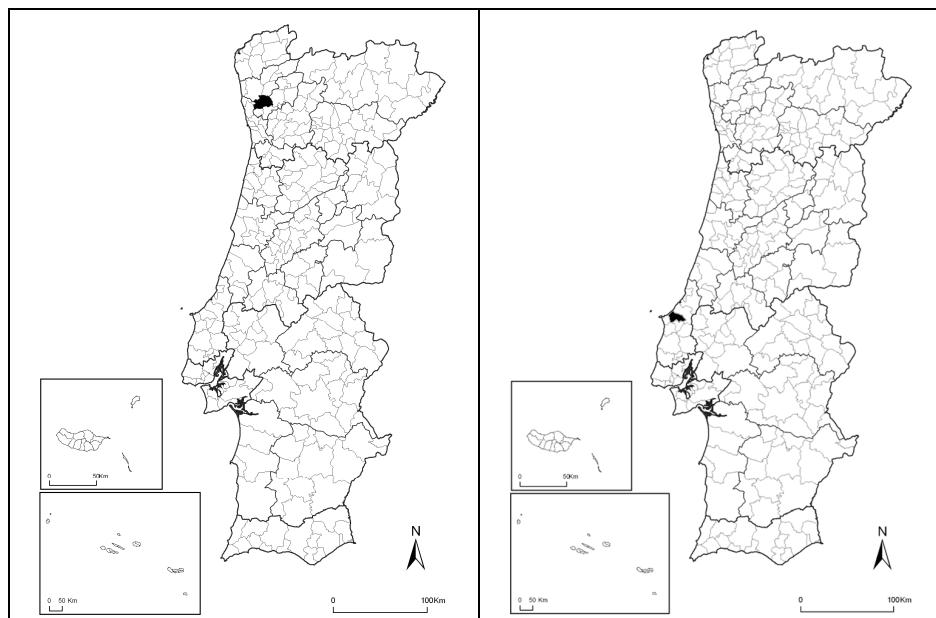


Figure 305. Distribution map of *Didymosphenia geminata*

Figure 306. Distribution map of *Diploneis didyma*

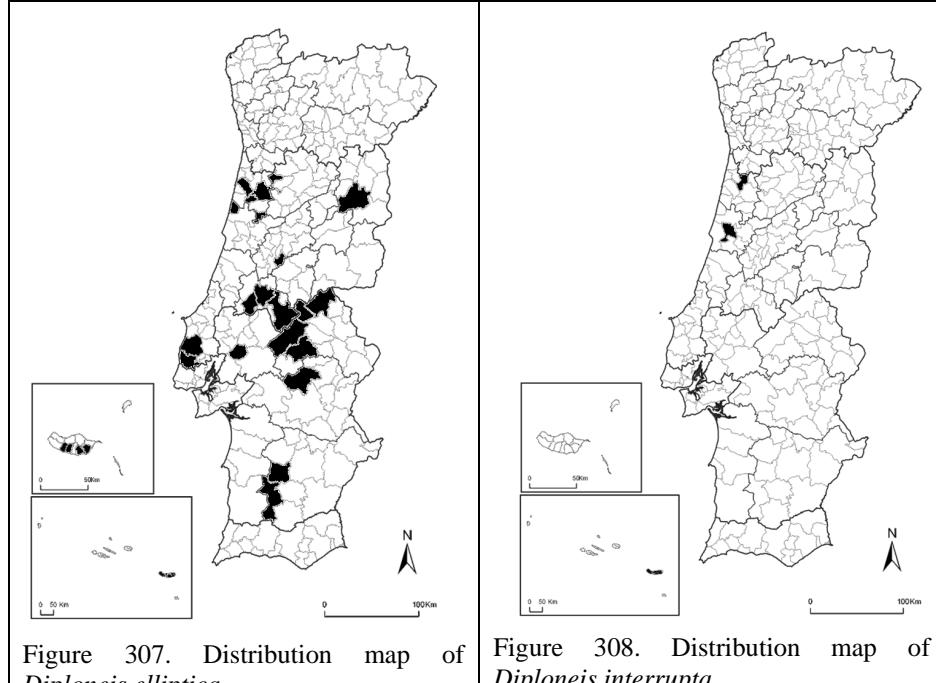
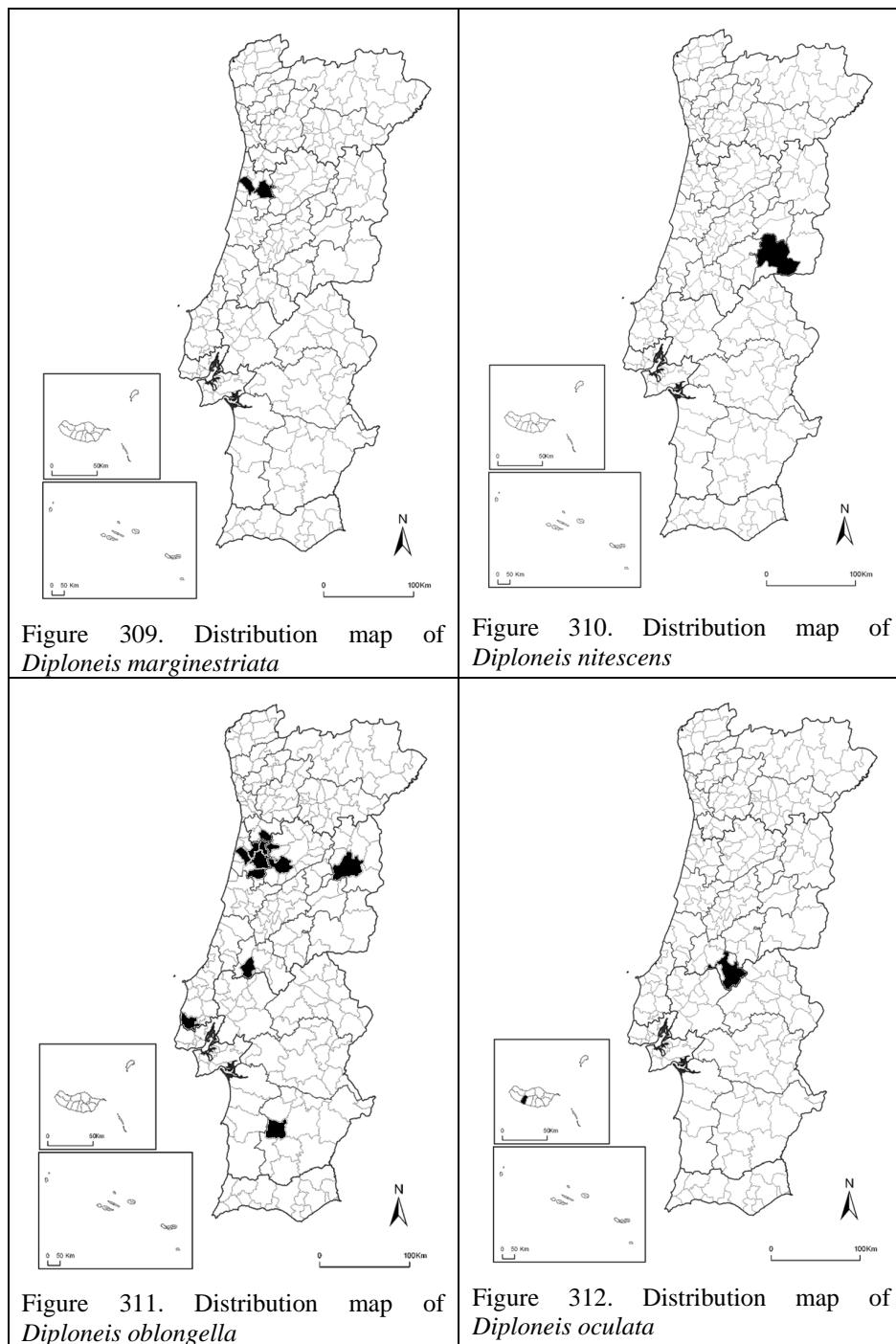
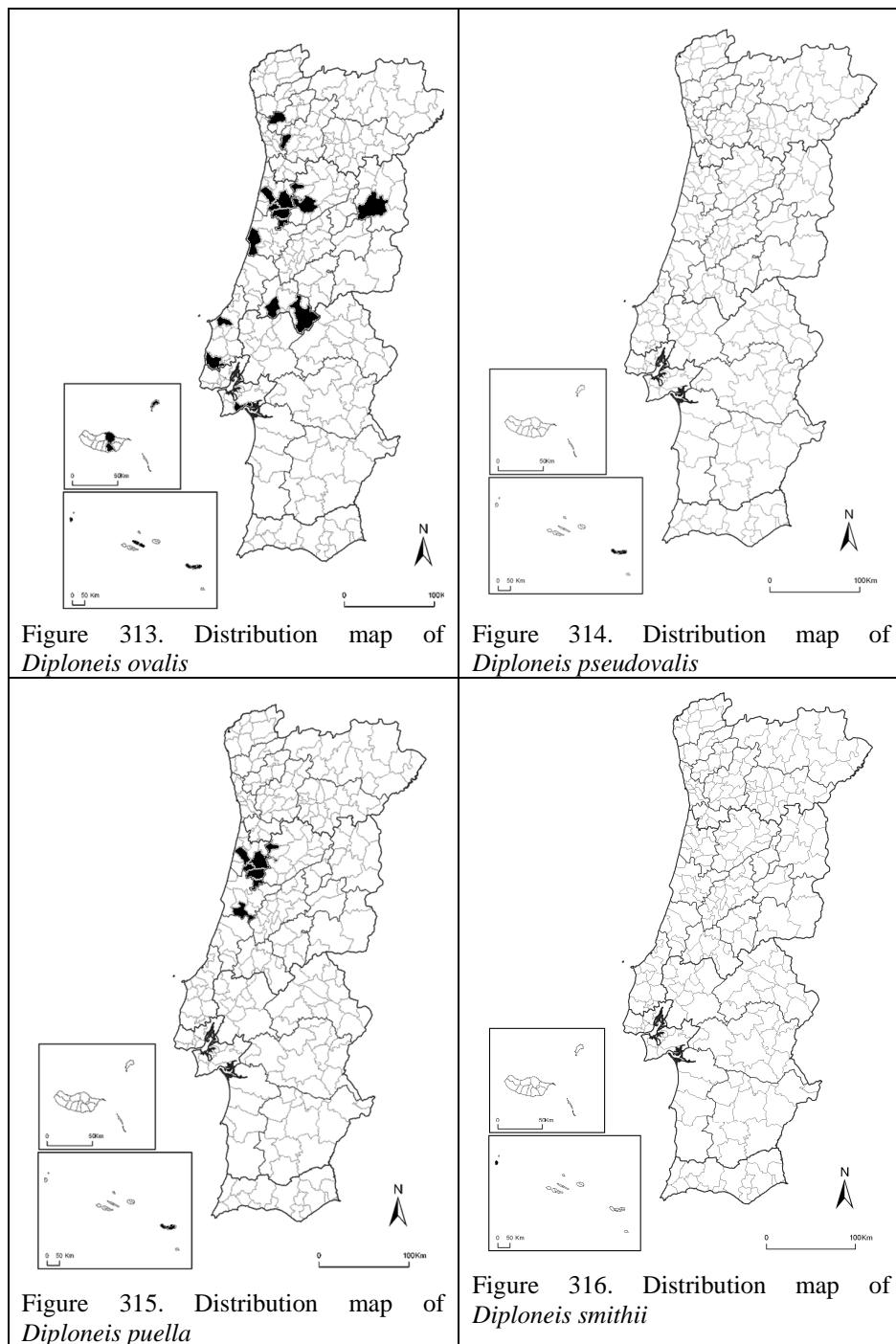
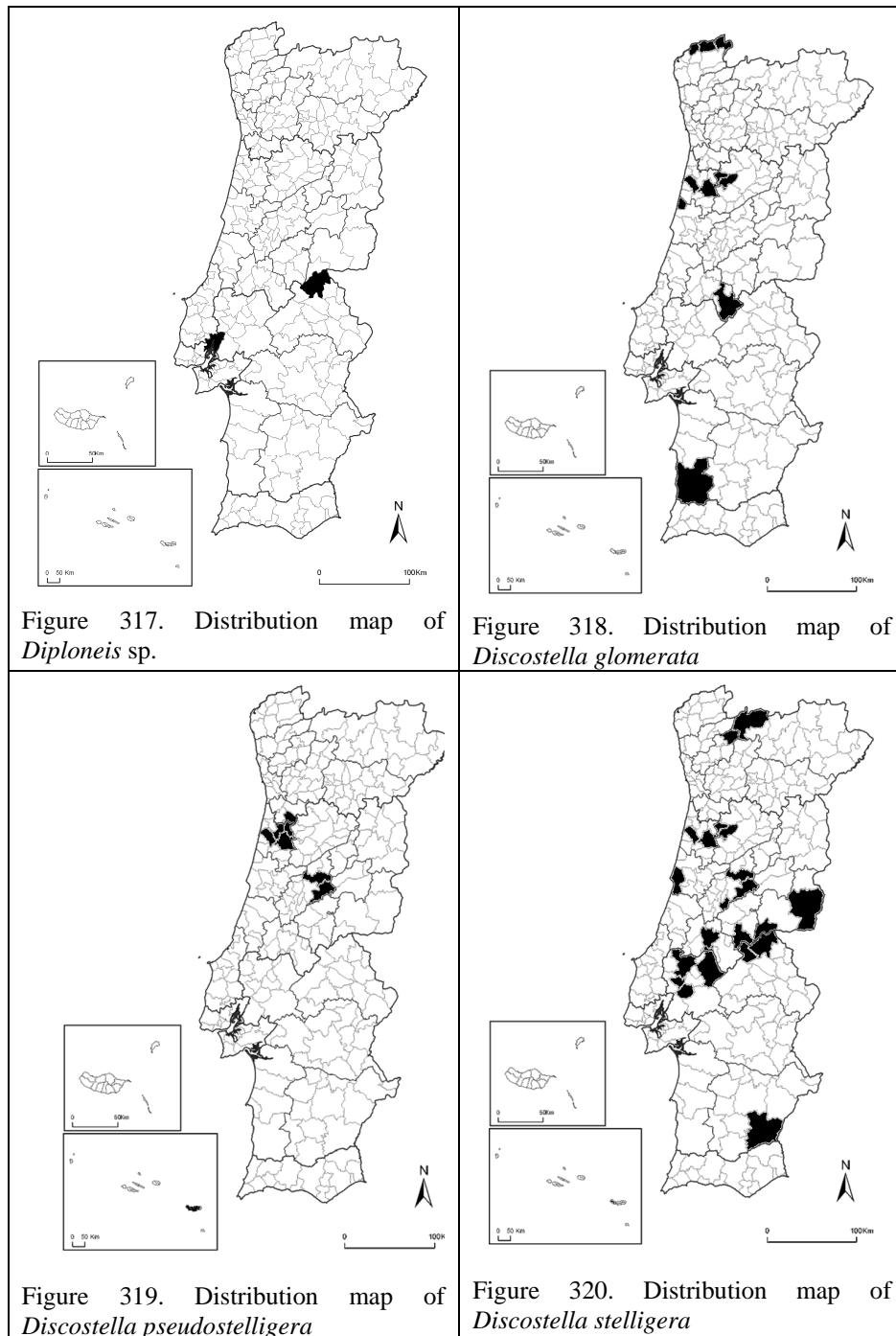


Figure 307. Distribution map of *Diploneis elliptica*

Figure 308. Distribution map of *Diploneis interrupta*







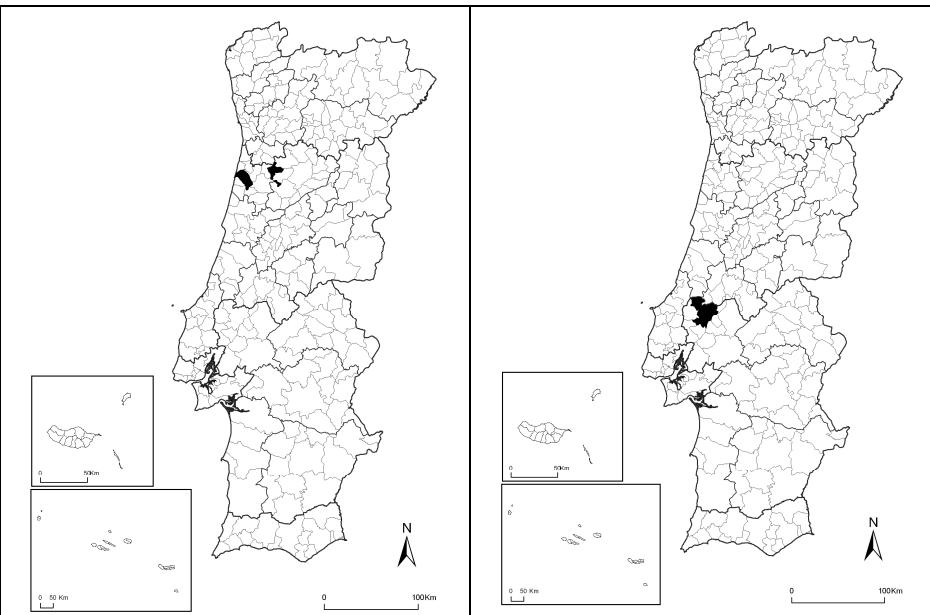


Figure 321. Distribution map of *Ellerbeckia arenaria*

Figure 322. Distribution map of *Ellerbeckia sol*

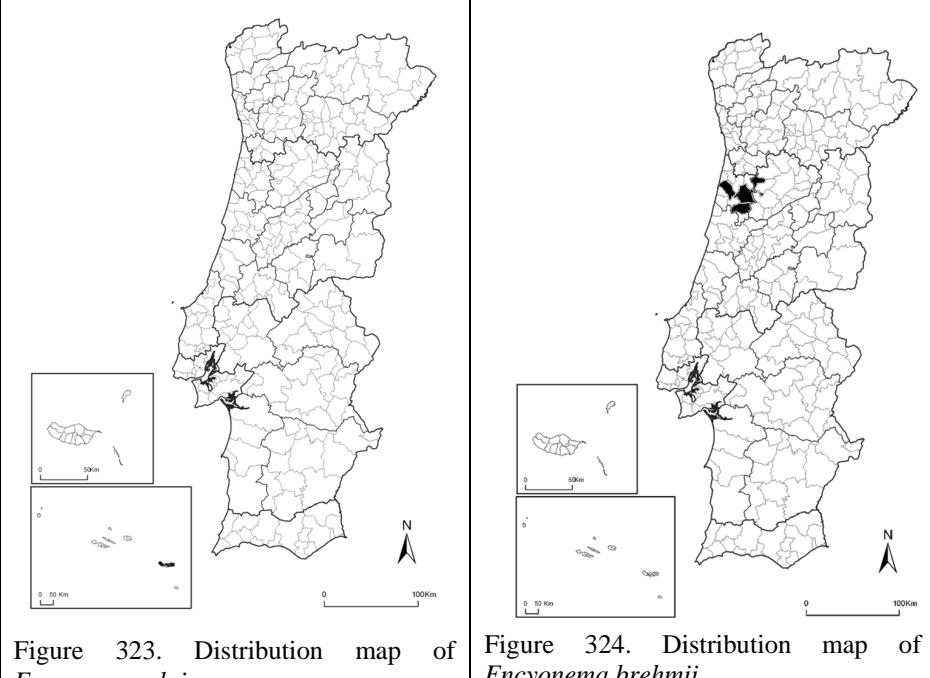


Figure 323. Distribution map of *Encyonema alpinum*

Figure 324. Distribution map of *Encyonema brehmii*

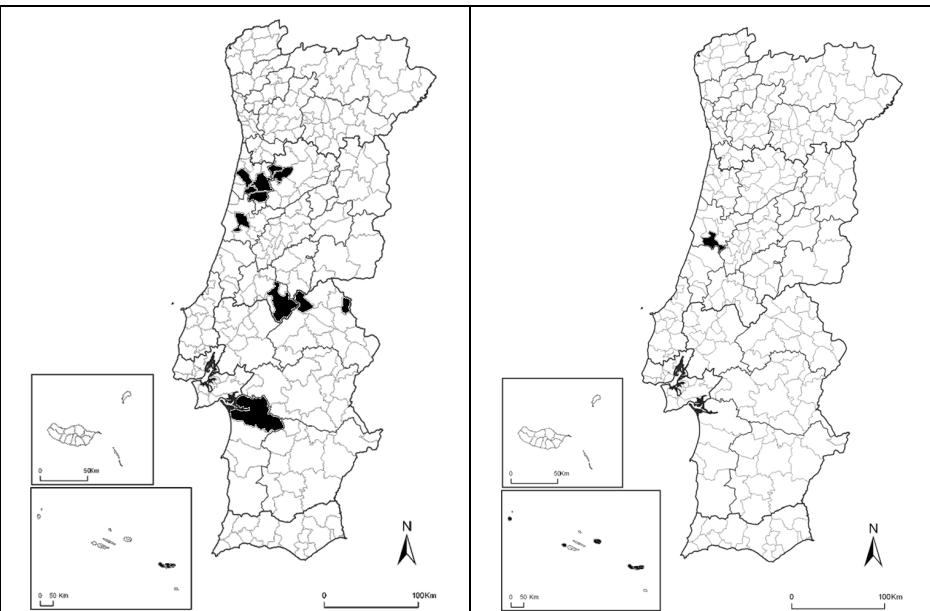


Figure 325. Distribution map of *Encyonema caespitosum*

Figure 326. Distribution map of *Encyonema elginense*

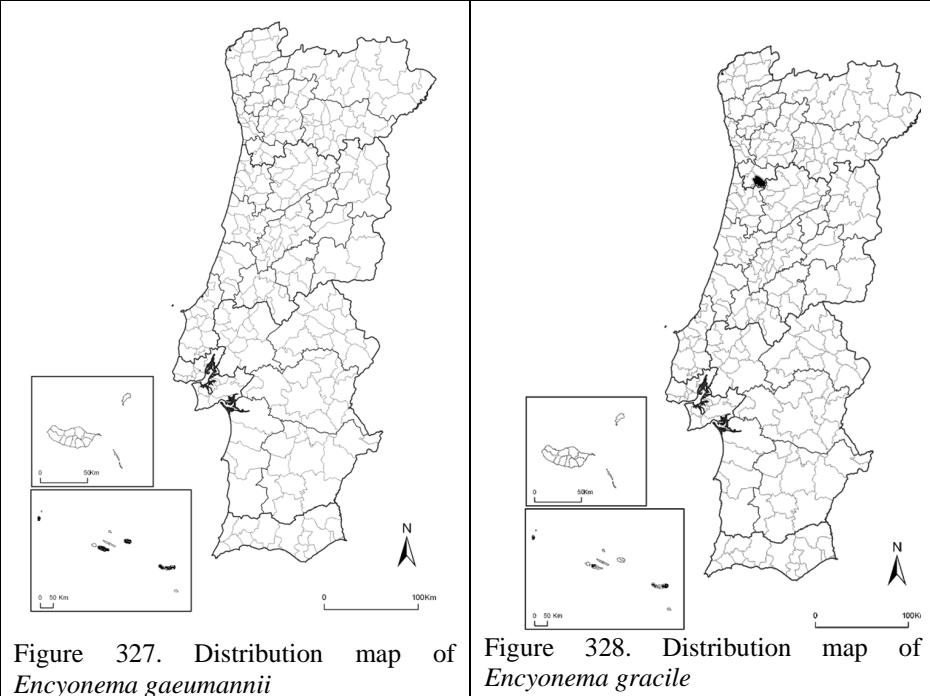
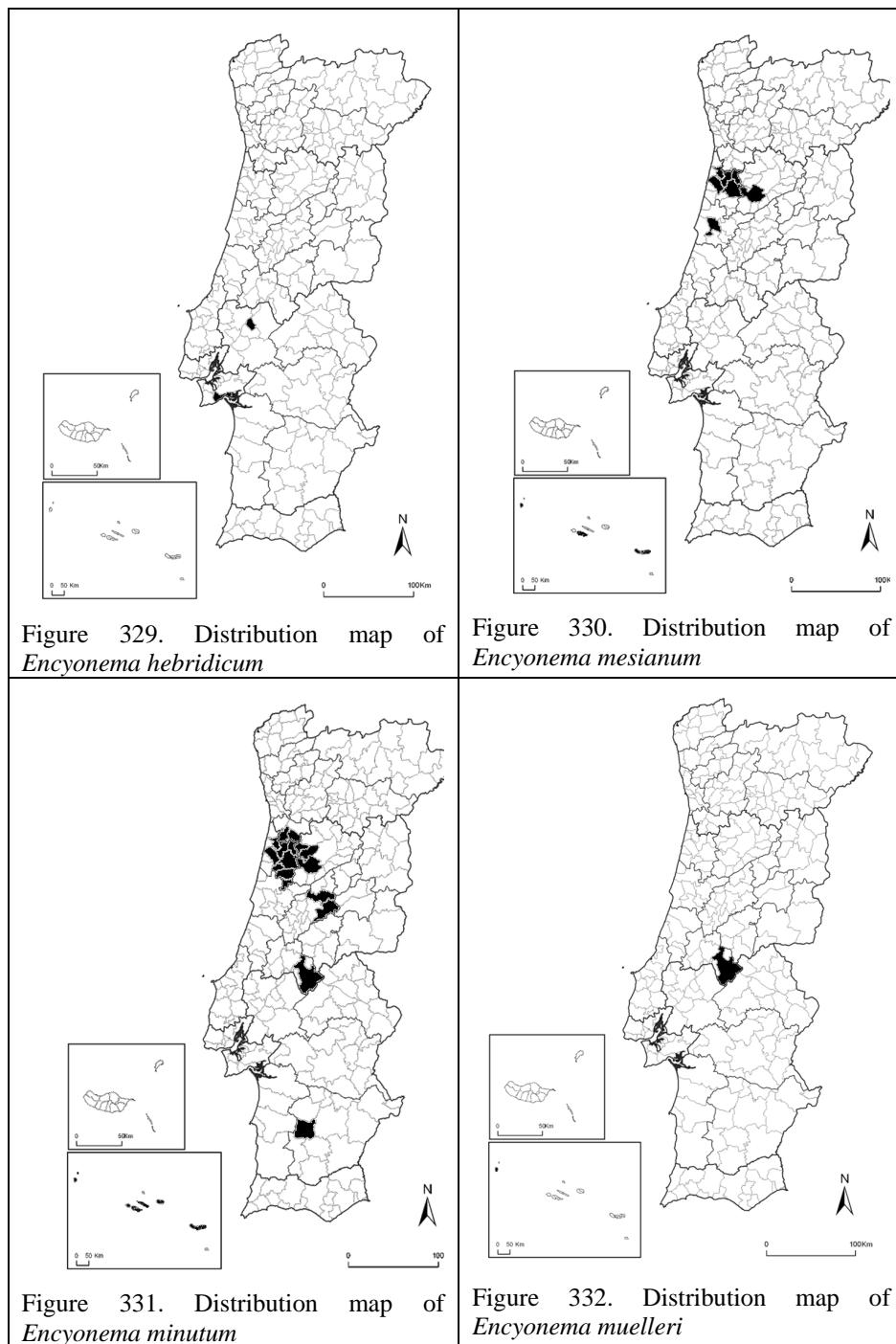
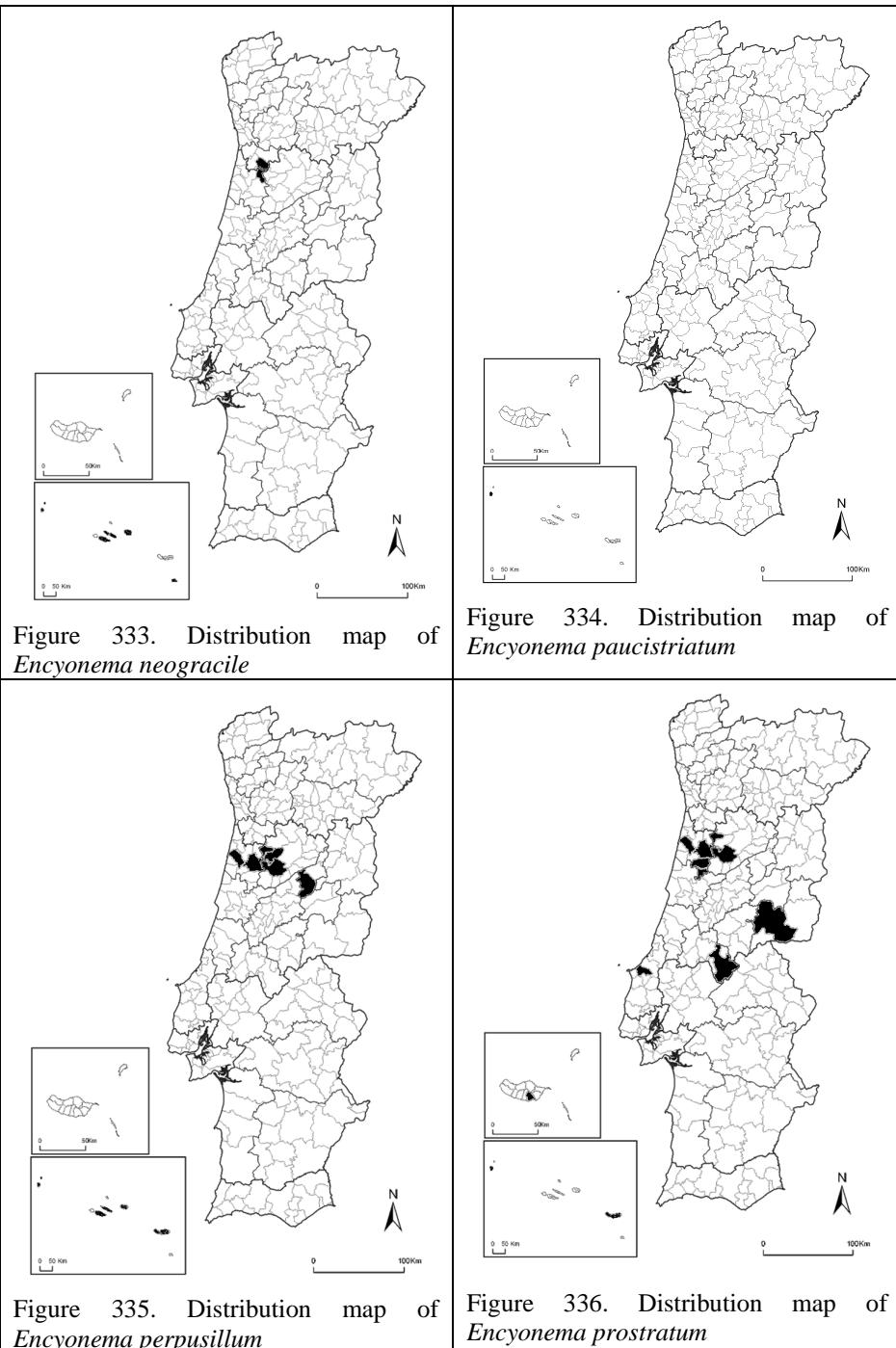
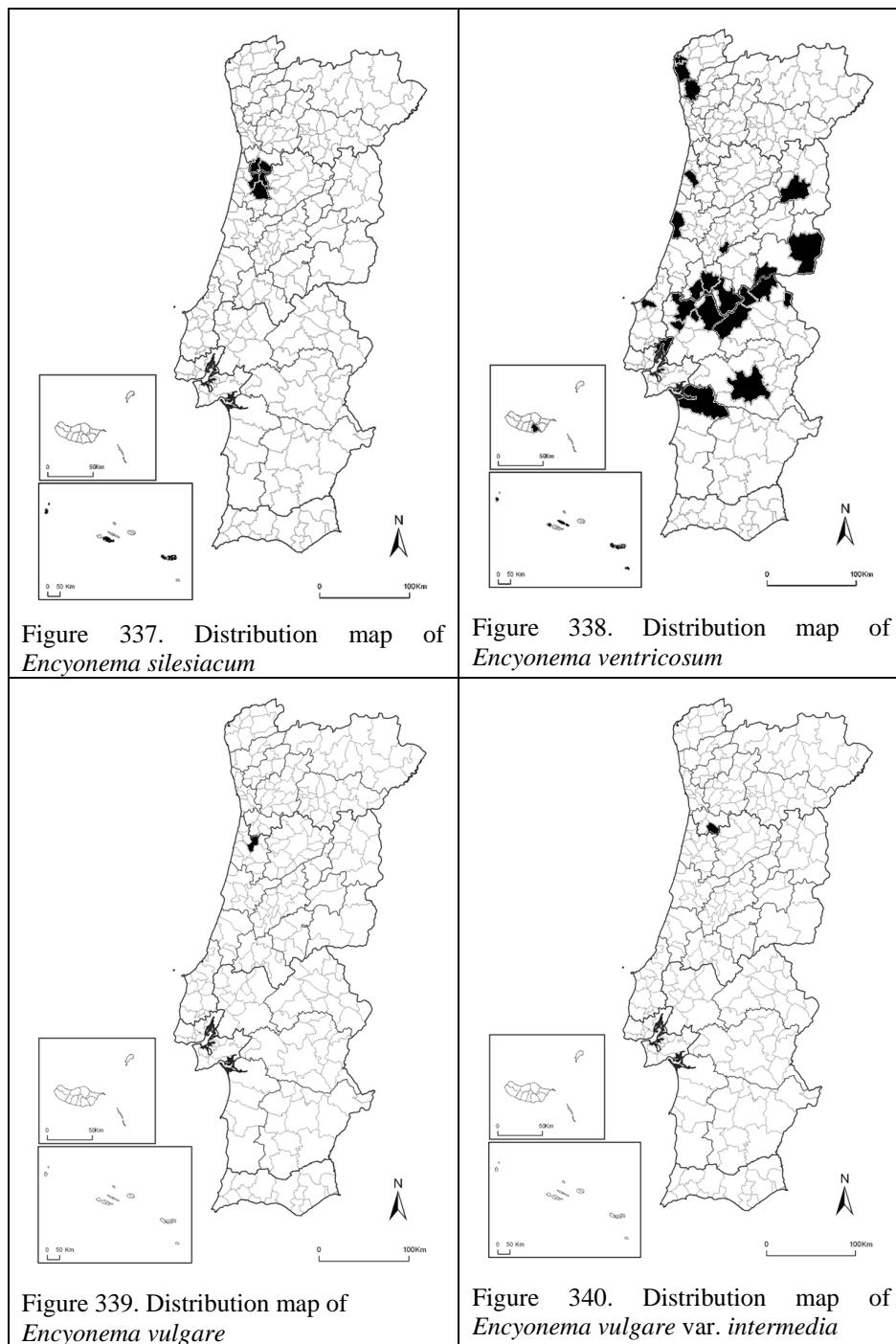


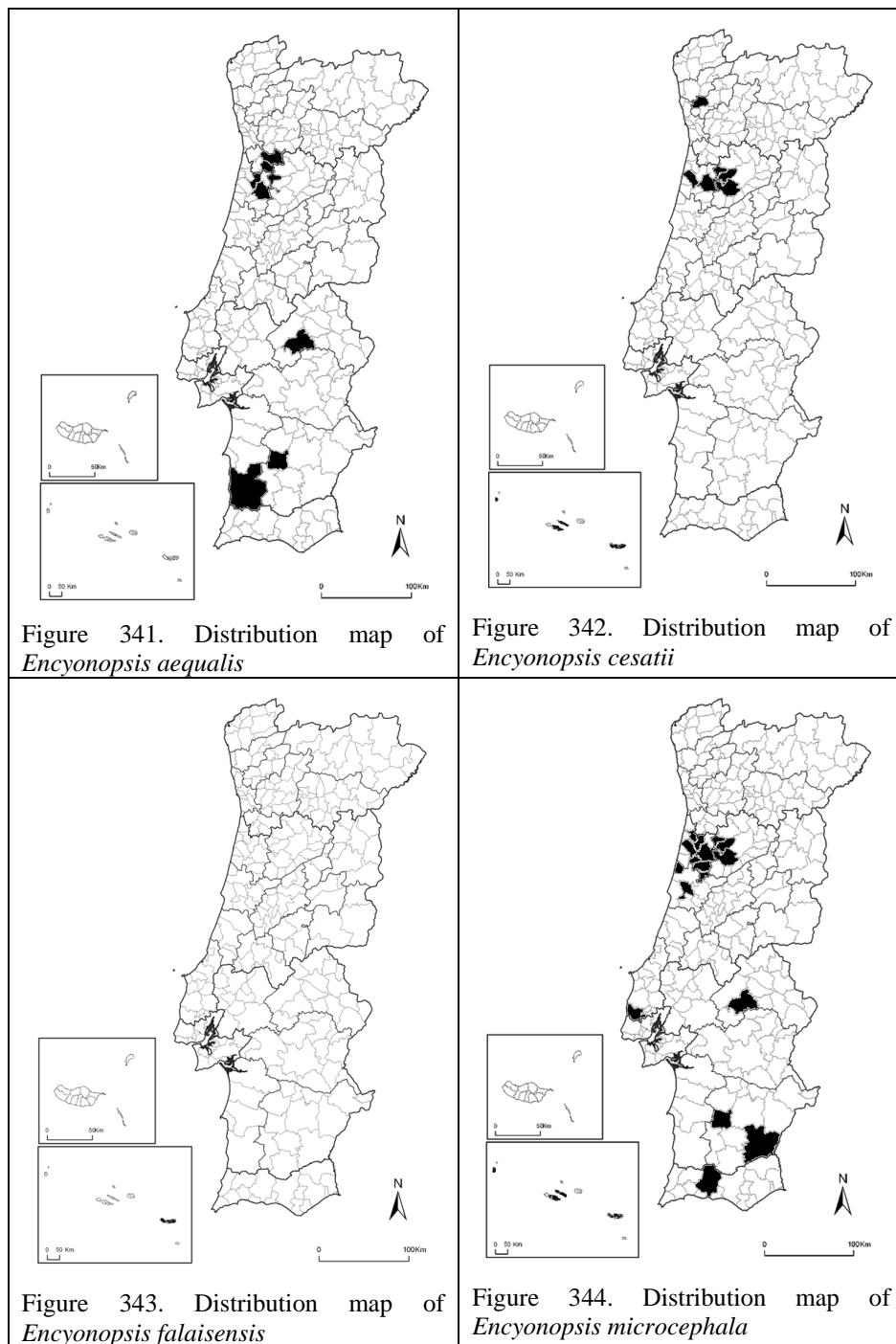
Figure 327. Distribution map of *Encyonema gaeumannii*

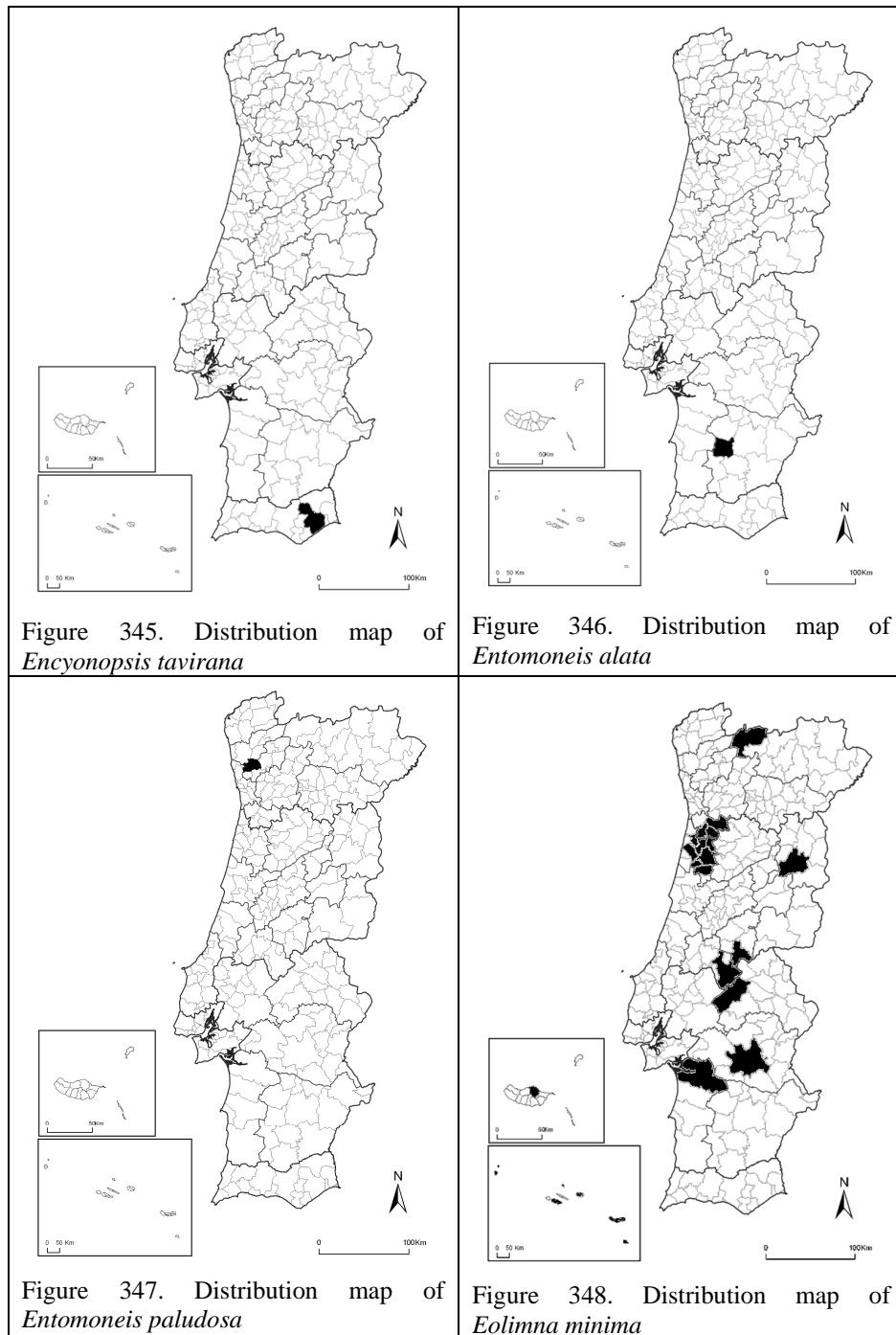
Figure 328. Distribution map of *Encyonema gracile*











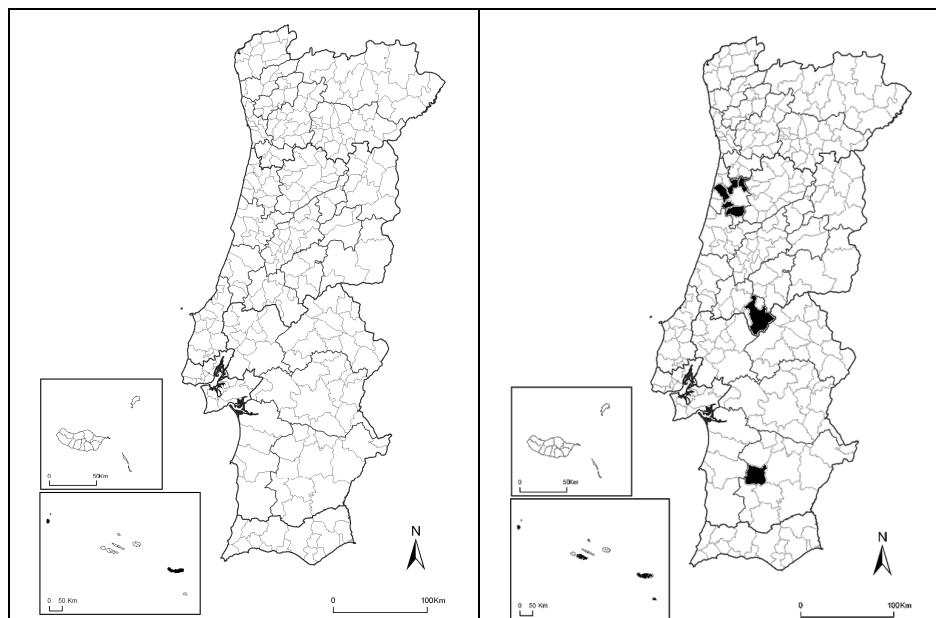


Figure 349. Distribution map of *Eolimna ruttneri*

Figure 350. Distribution map of *Eolimna subminuscula*

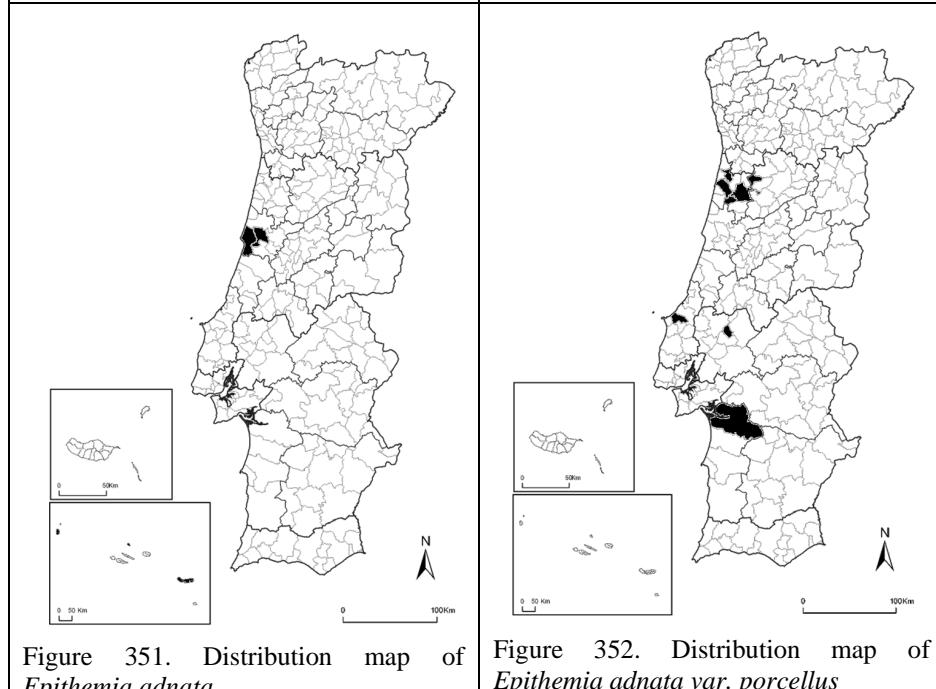


Figure 351. Distribution map of *Epithemia adnata*

Figure 352. Distribution map of *Epithemia adnata* var. *porcellus*

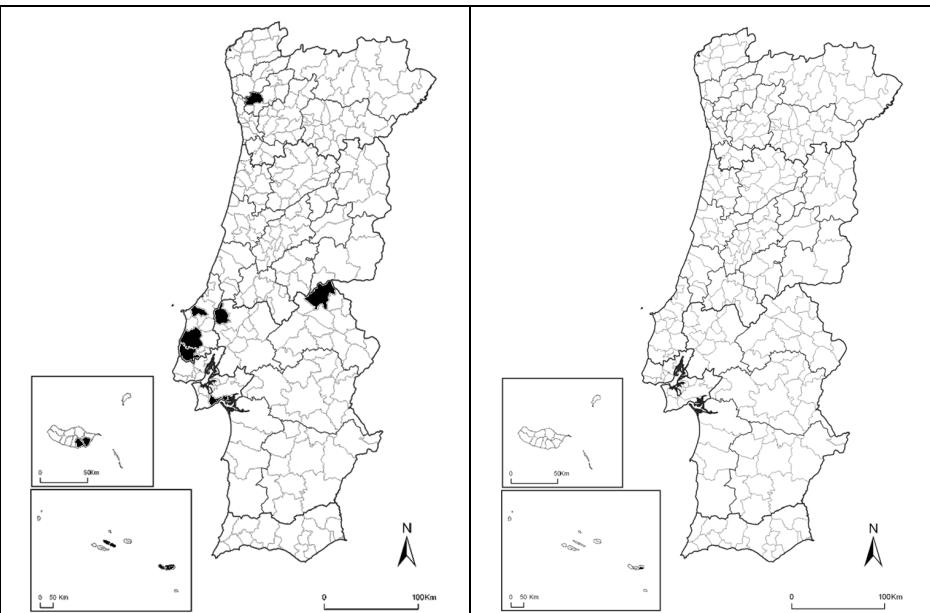


Figure 353. Distribution map of *Epithemis argus*

Figure 354. Distribution map of *Epithemis argus* var. *alpestris*

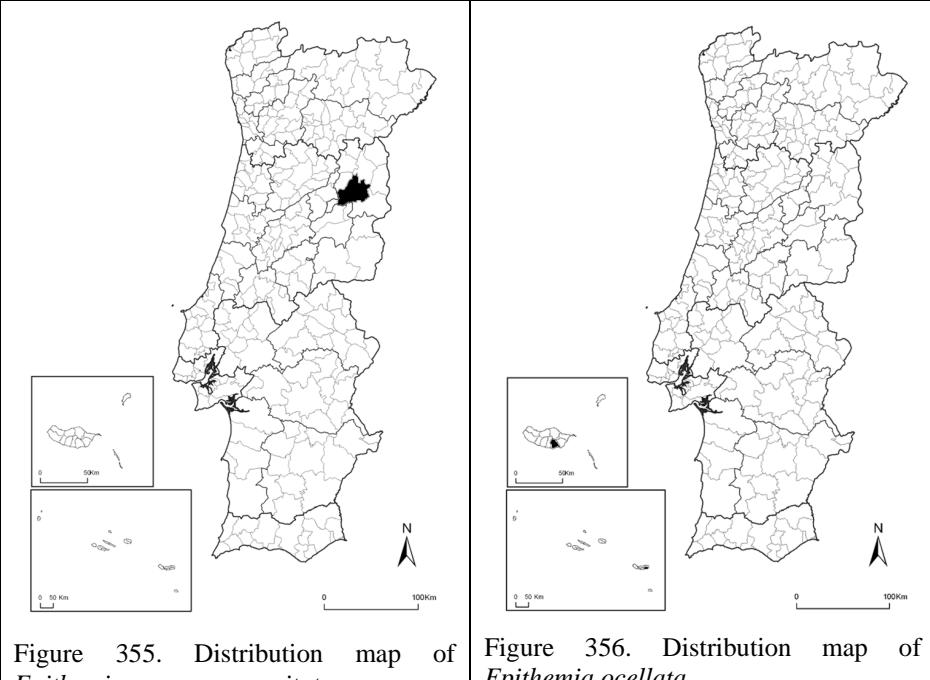
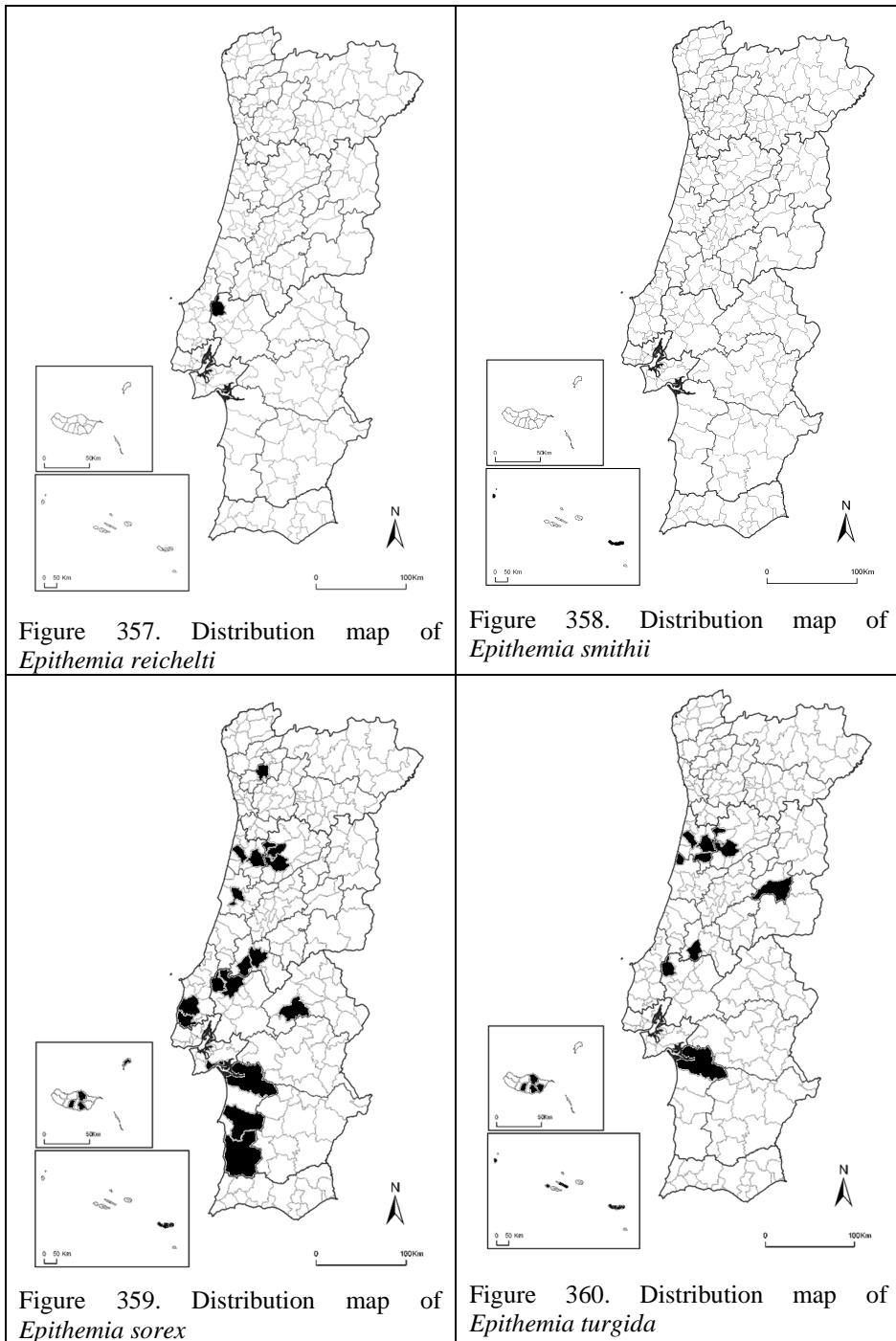
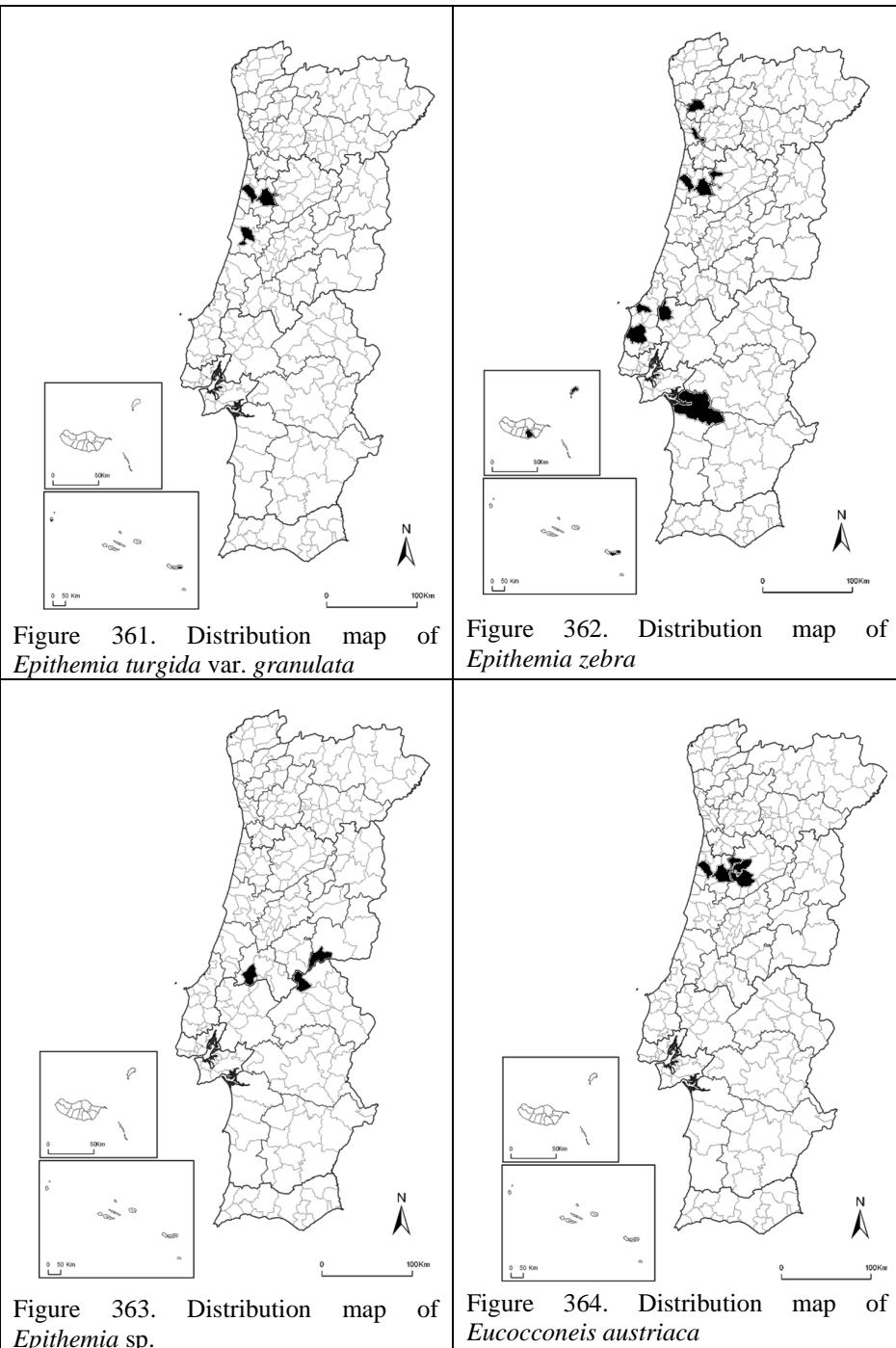
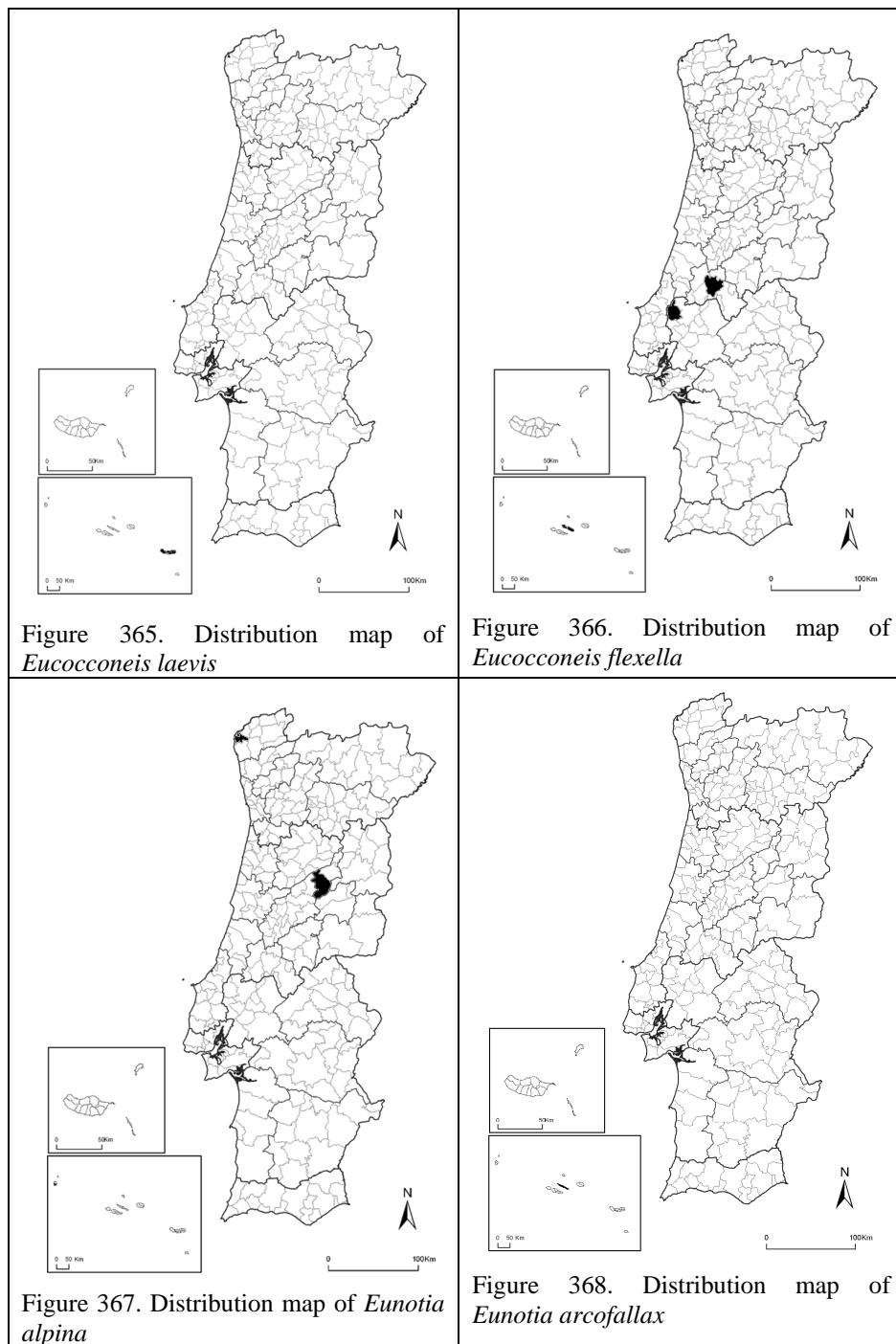


Figure 355. Distribution map of *Epithemis argus* var. *capitata*

Figure 356. Distribution map of *Epithemis ocellata*







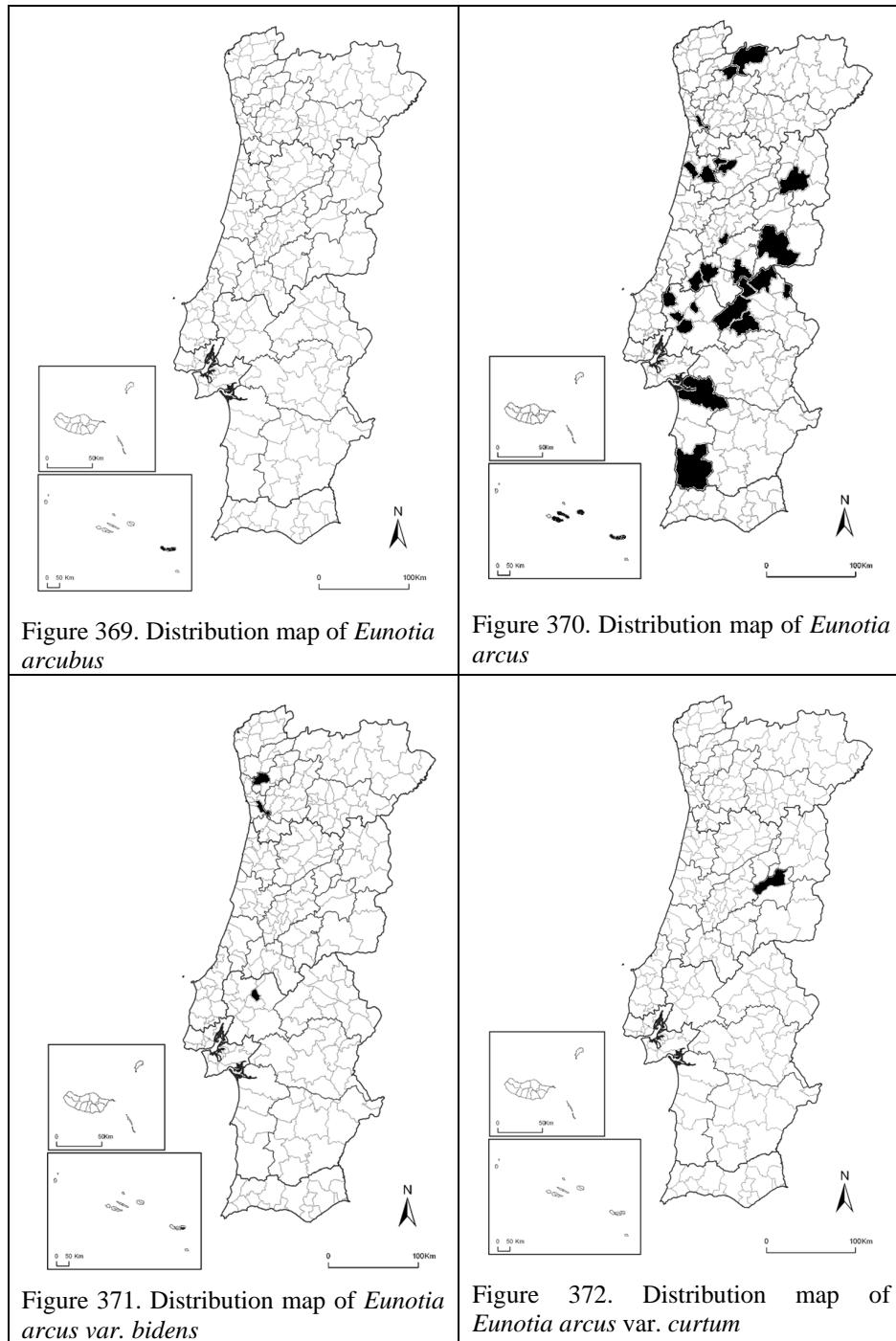
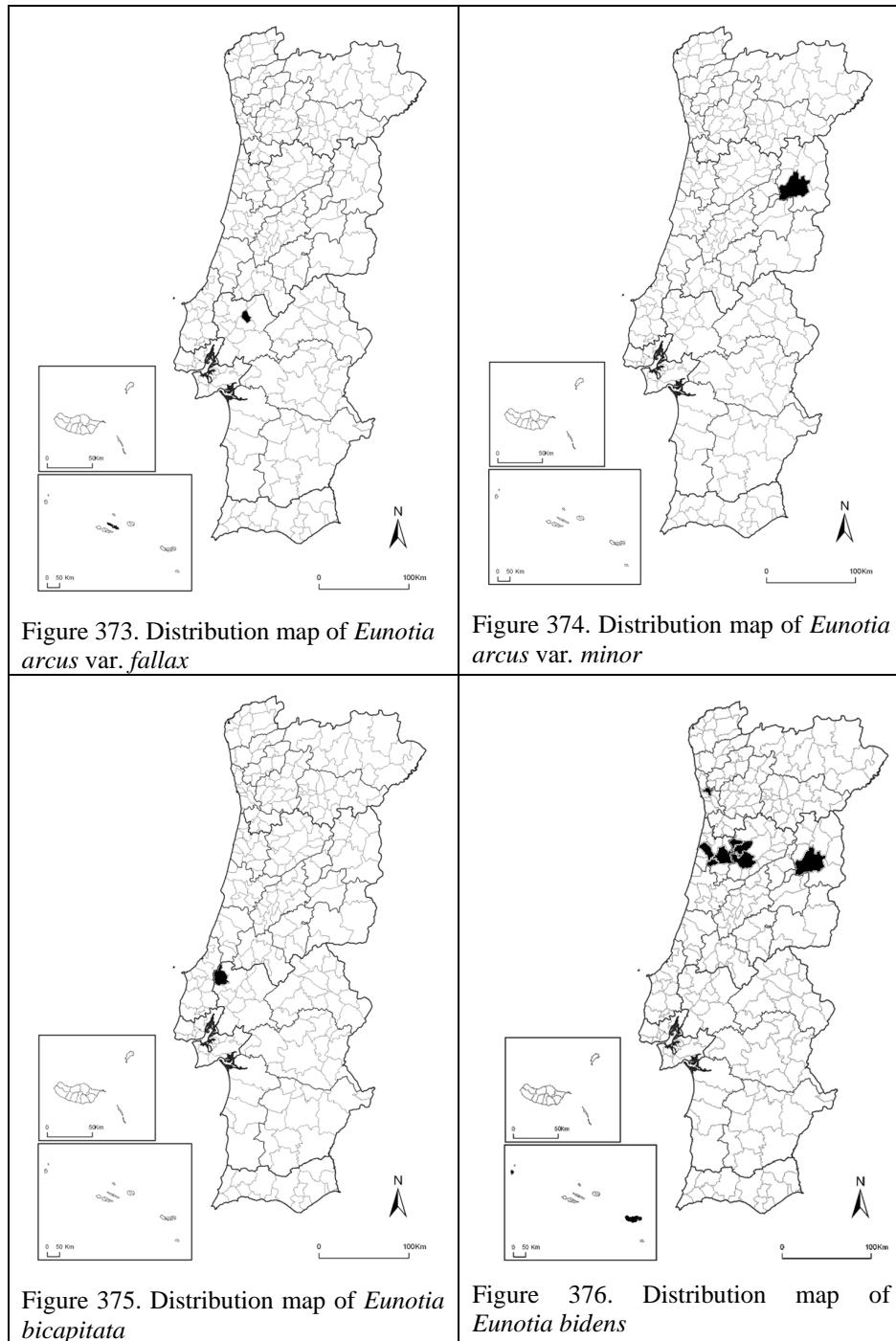


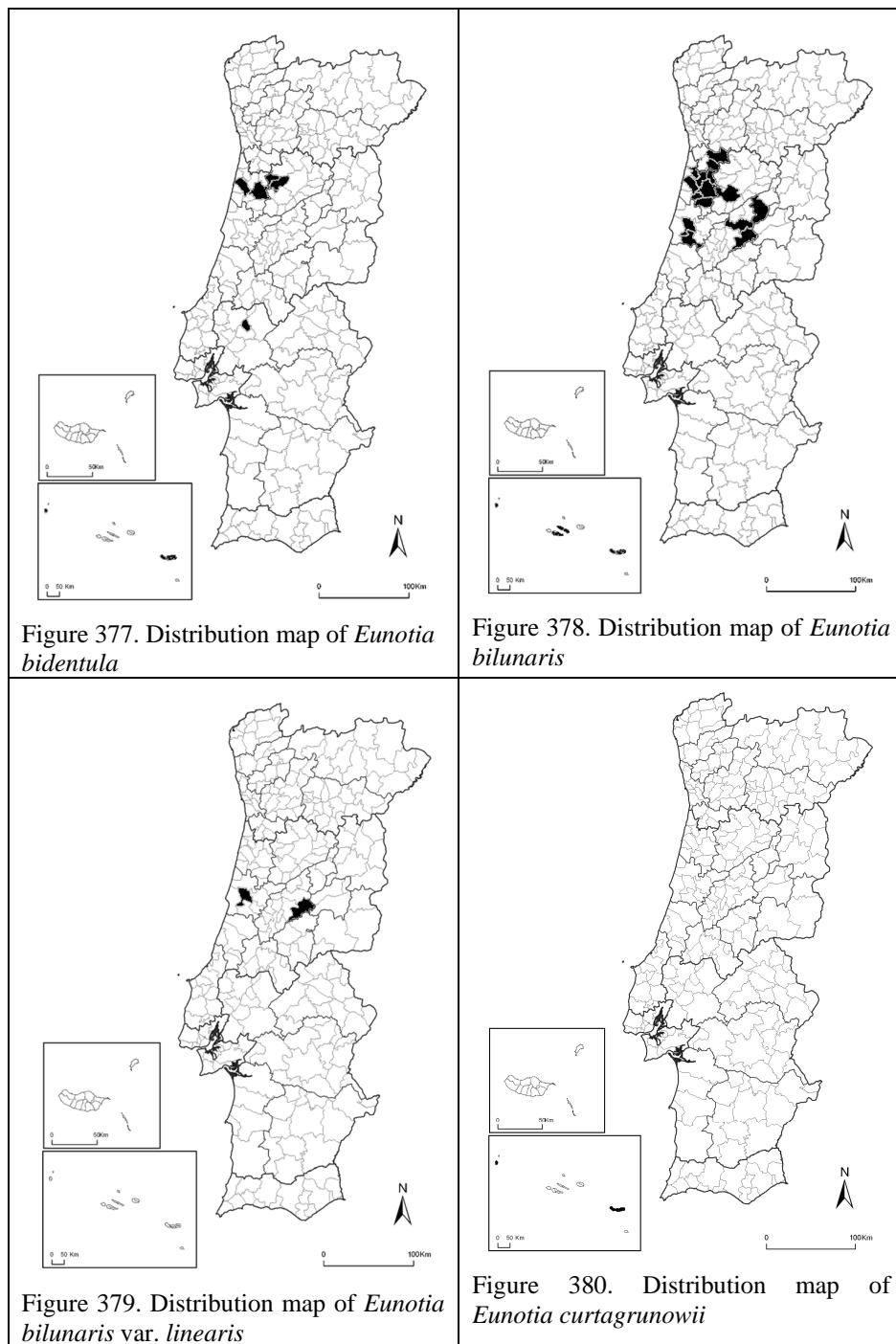
Figure 369. Distribution map of *Eunotia arcubus*

Figure 370. Distribution map of *Eunotia arcus*

Figure 371. Distribution map of *Eunotia arcus* var. *bidens*

Figure 372. Distribution map of *Eunotia arcus* var. *curtum*





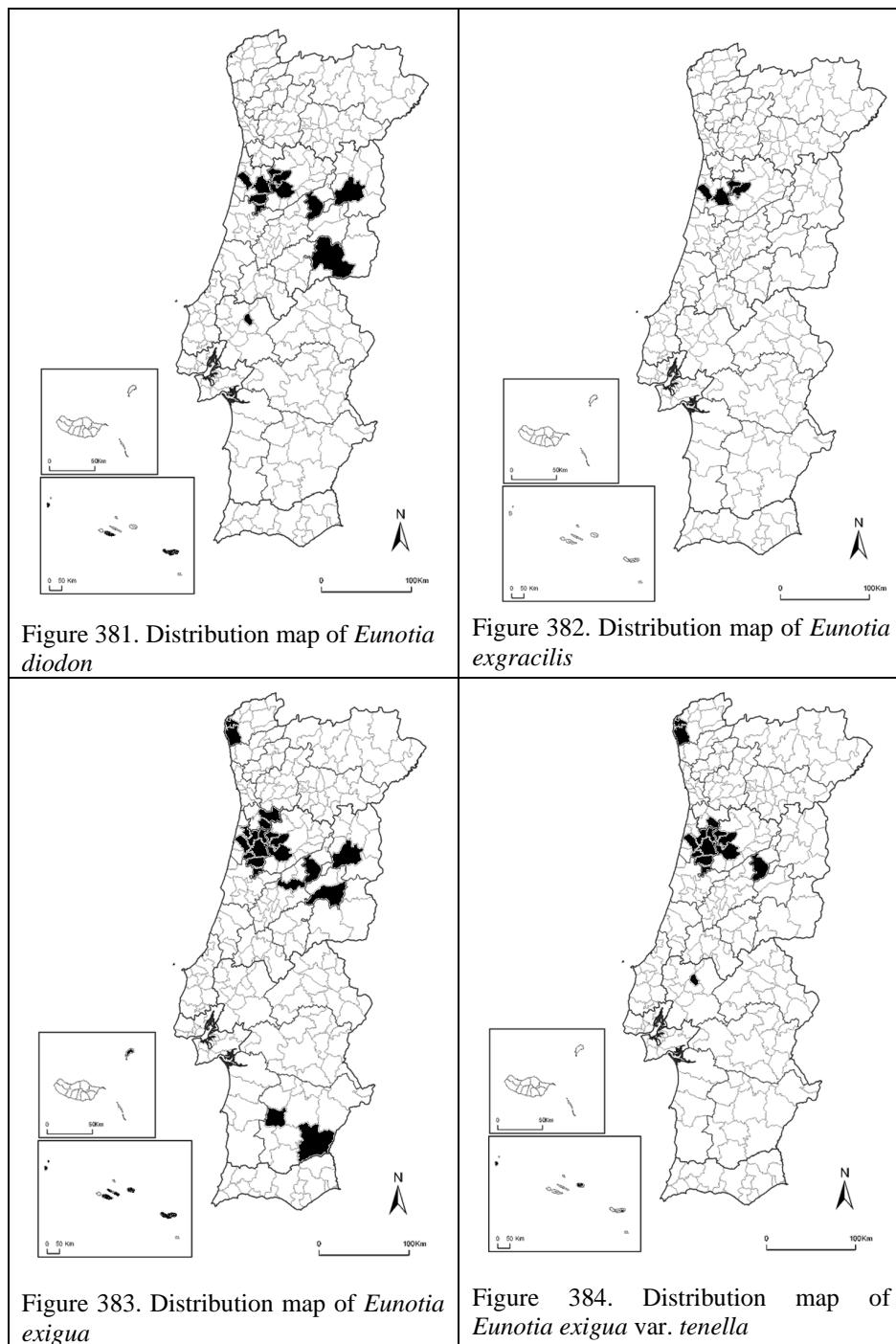
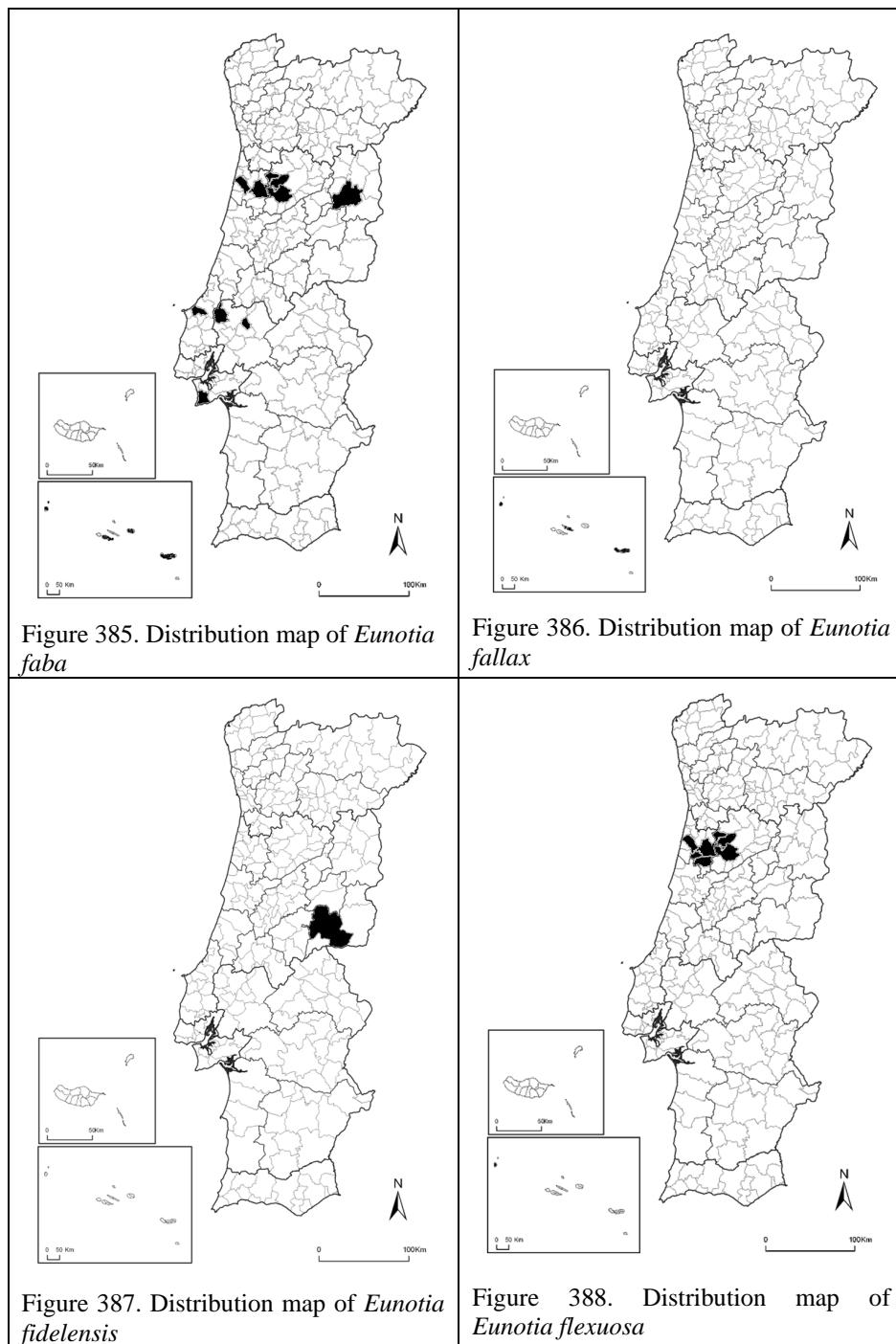


Figure 381. Distribution map of *Eunotia diodon*

Figure 382. Distribution map of *Eunotia exgracilis*

Figure 383. Distribution map of *Eunotia exigua*

Figure 384. Distribution map of *Eunotia exigua* var. *tenella*



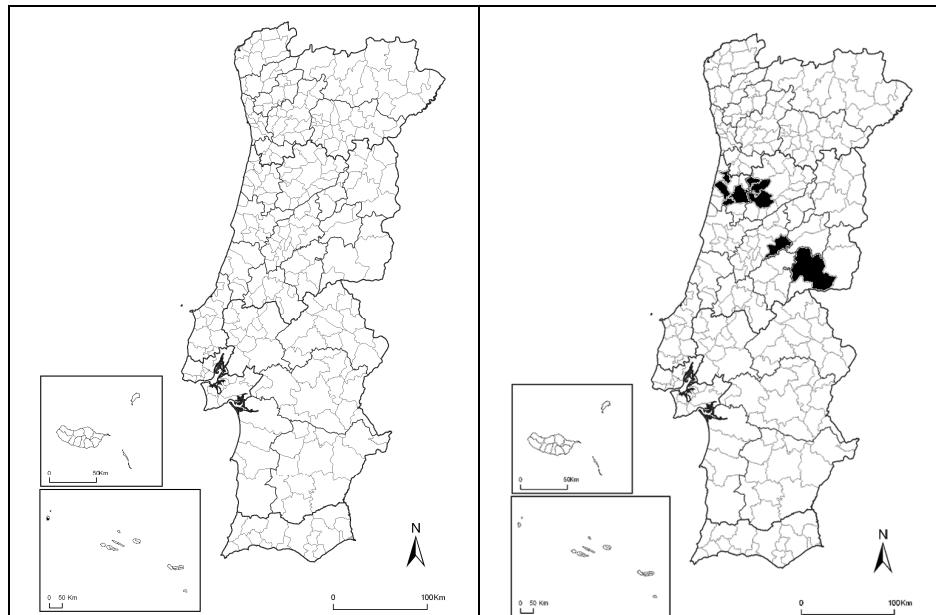


Figure 389. Distribution map of *Eunotia flexuosa* var. *vasconiensis*

Figure 390. Distribution map of *Eunotia formica*

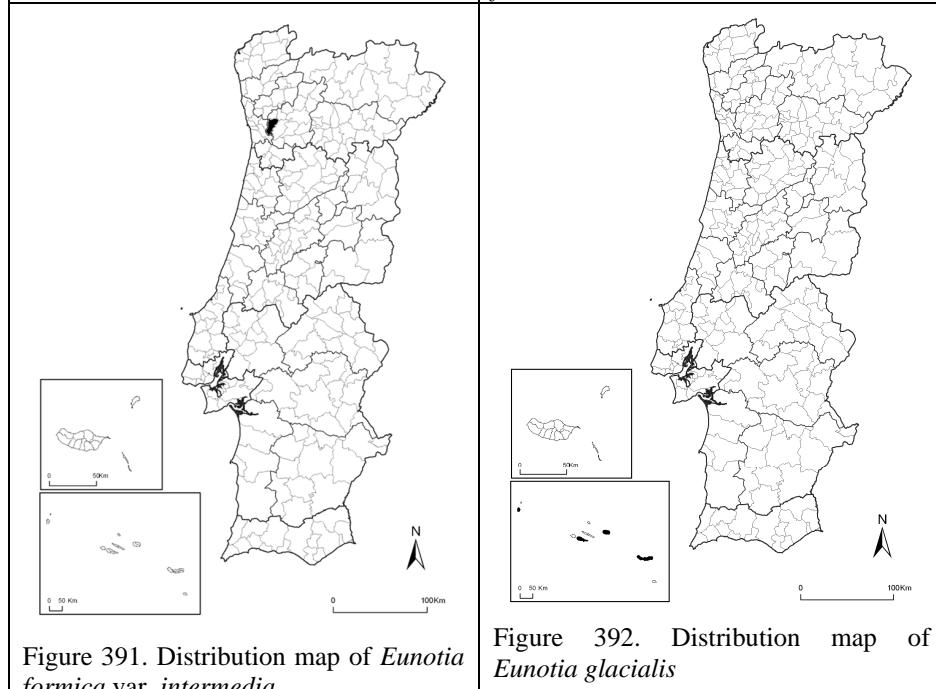


Figure 391. Distribution map of *Eunotia formica* var. *intermedia*

Figure 392. Distribution map of *Eunotia glacialis*

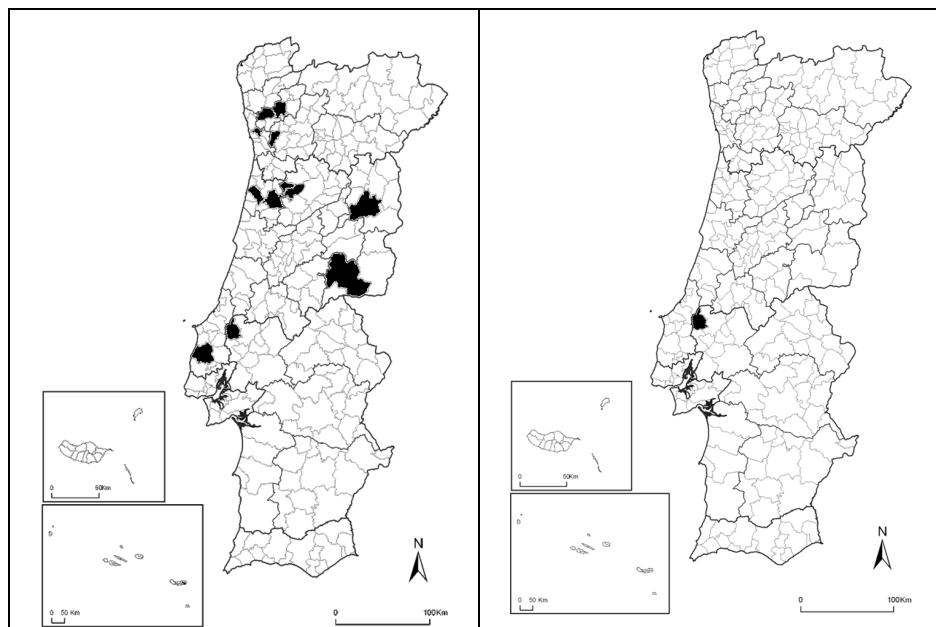


Figure 393. Distribution map of *Eunotia gracilis*

Figure 394. Distribution map of *Eunotia gracilis* var. *ventralis*

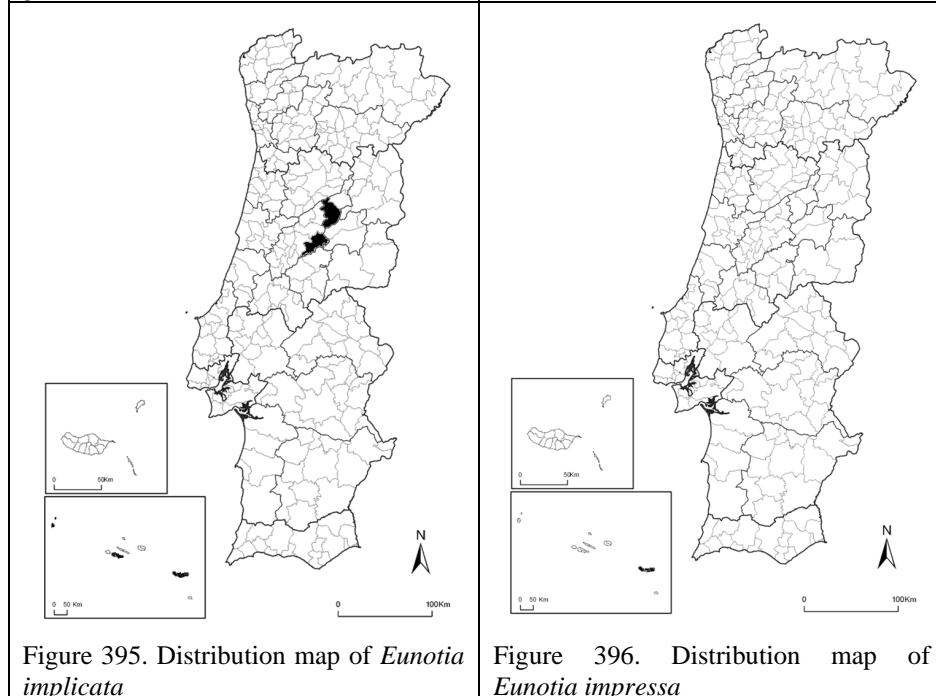
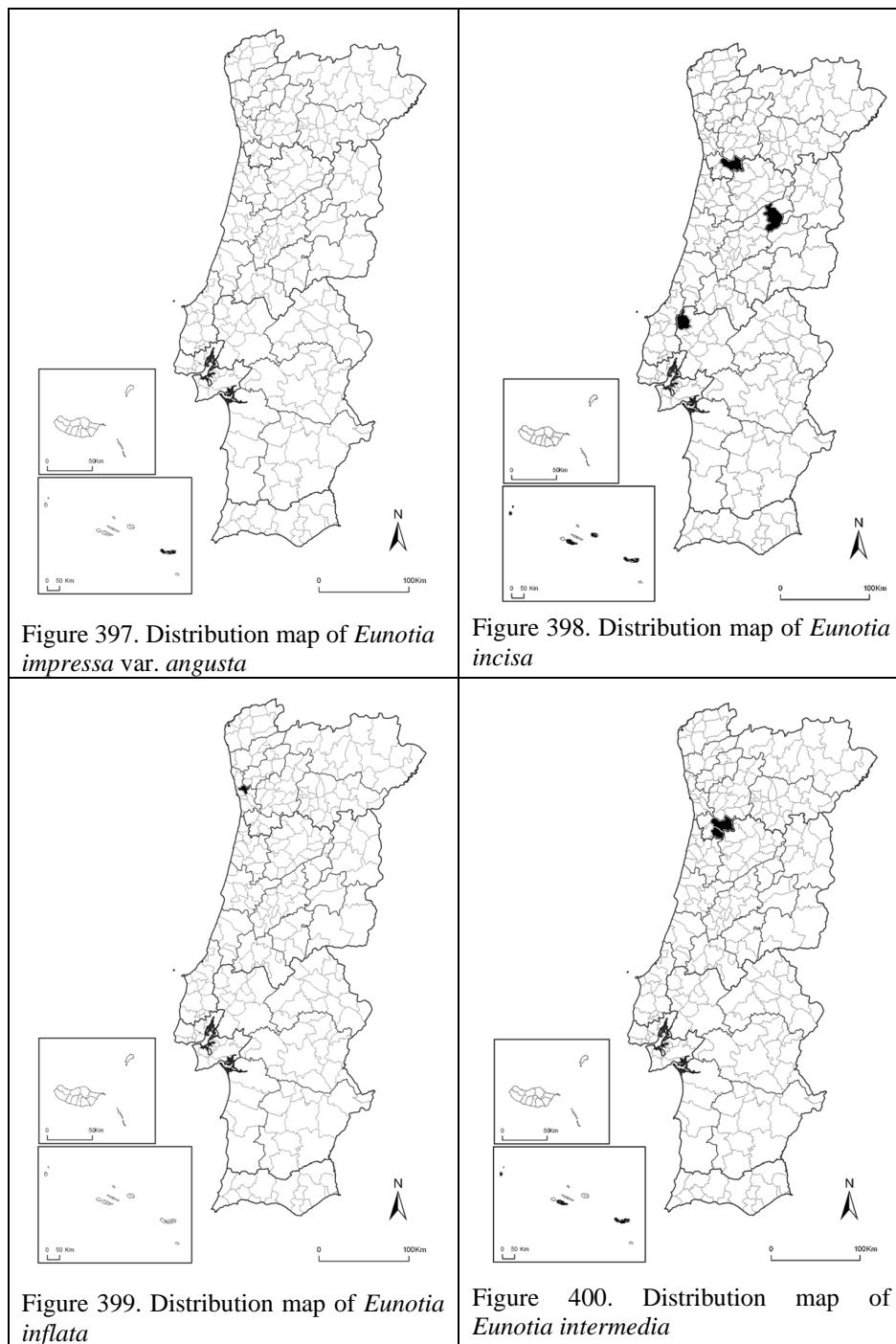
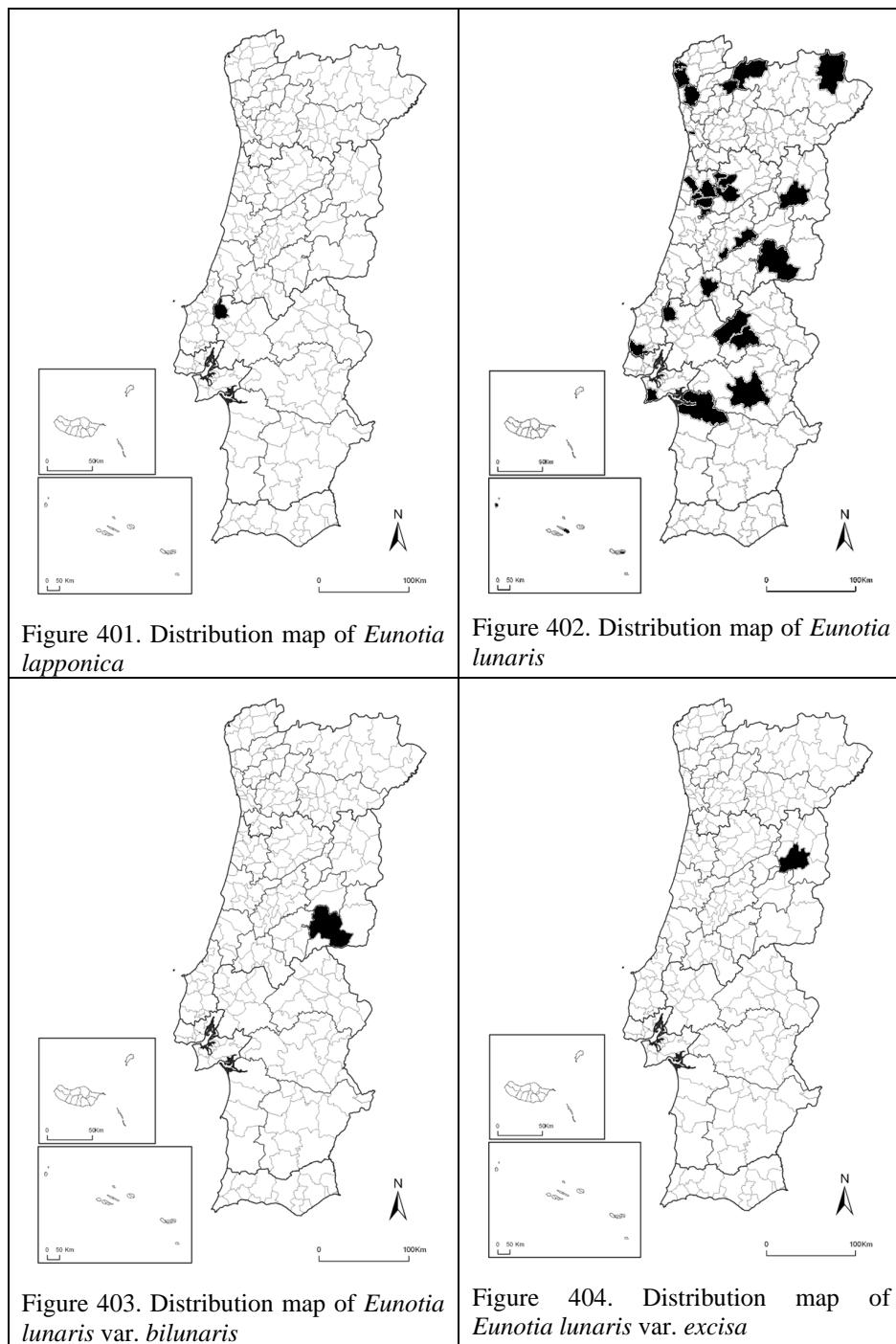


Figure 395. Distribution map of *Eunotia implicata*

Figure 396. Distribution map of *Eunotia impressa*





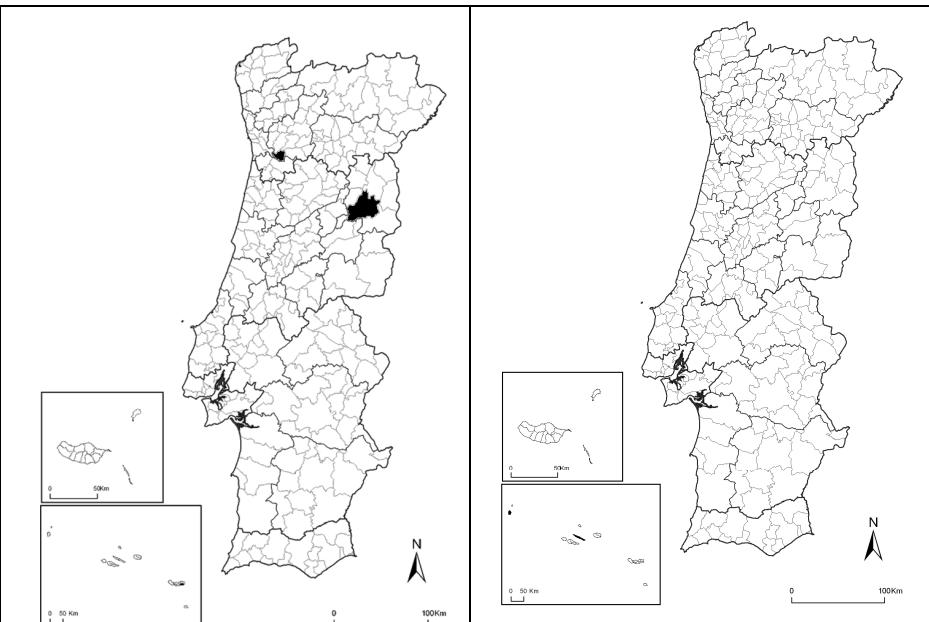


Figure 405. Distribution map of *Eunotia impressa*

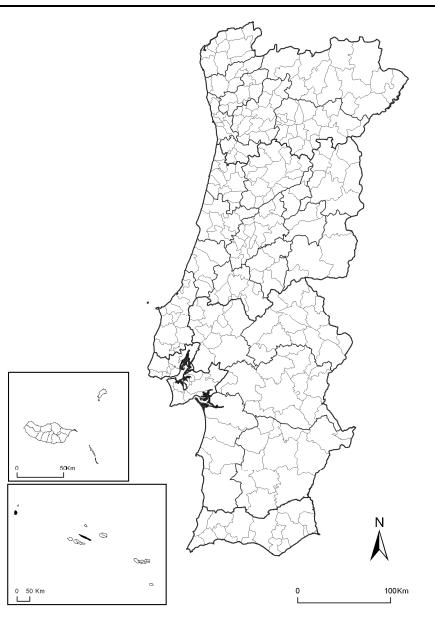


Figure 406. Distribution map of *Eunotia microcephala*

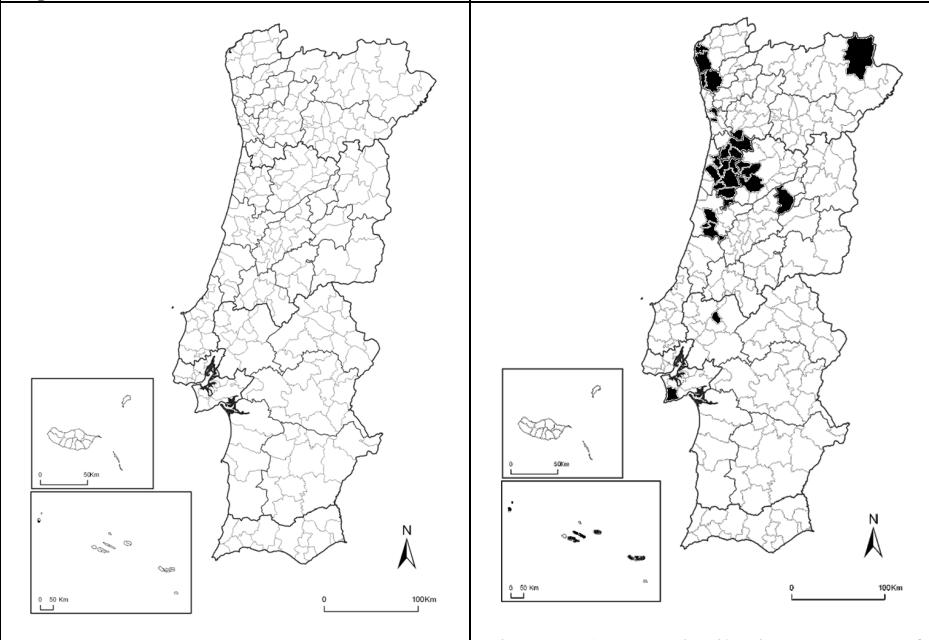


Figure 407. Distribution map of *Eunotia microcephala* var. *tridentata*

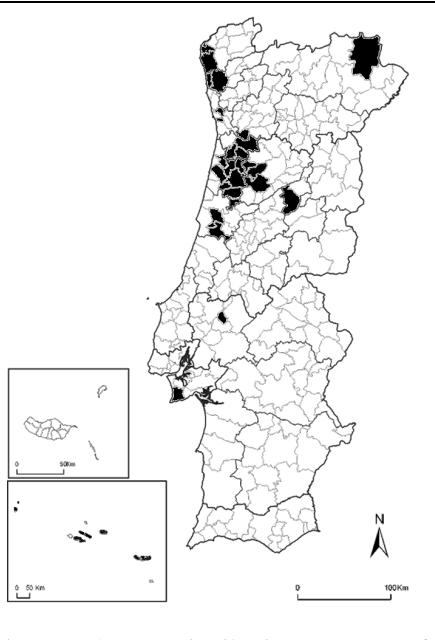


Figure 408. Distribution map of *Eunotia minor*

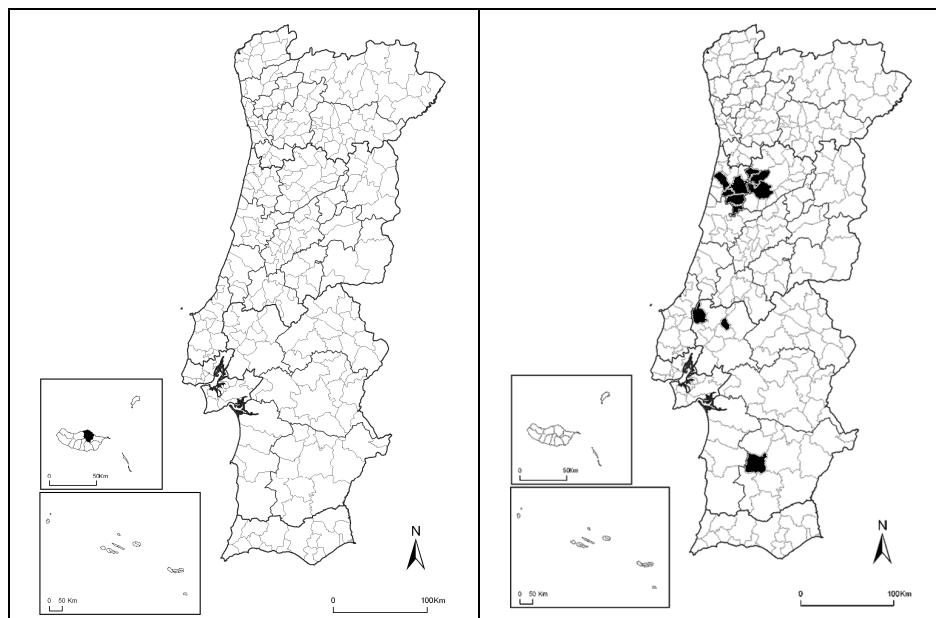


Figure 409. Distribution map of *Eunotia minutula*

Figure 410. Distribution map of *Eunotia monodon*

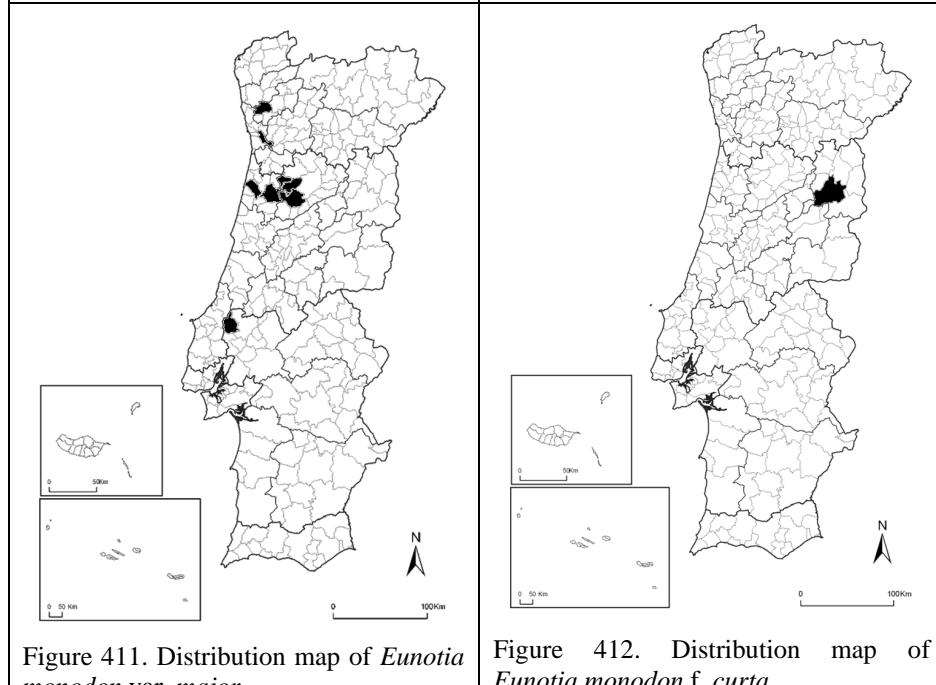
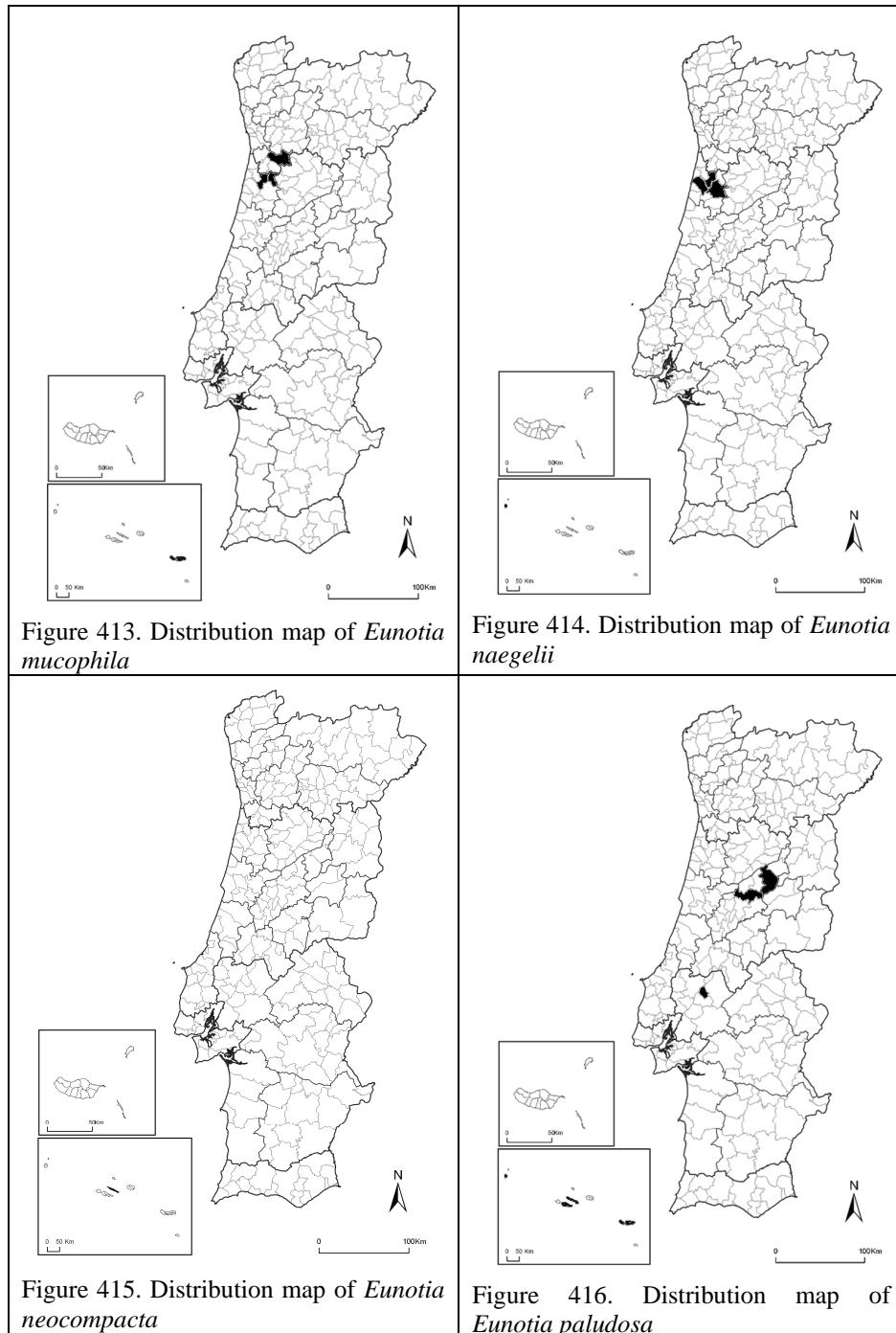
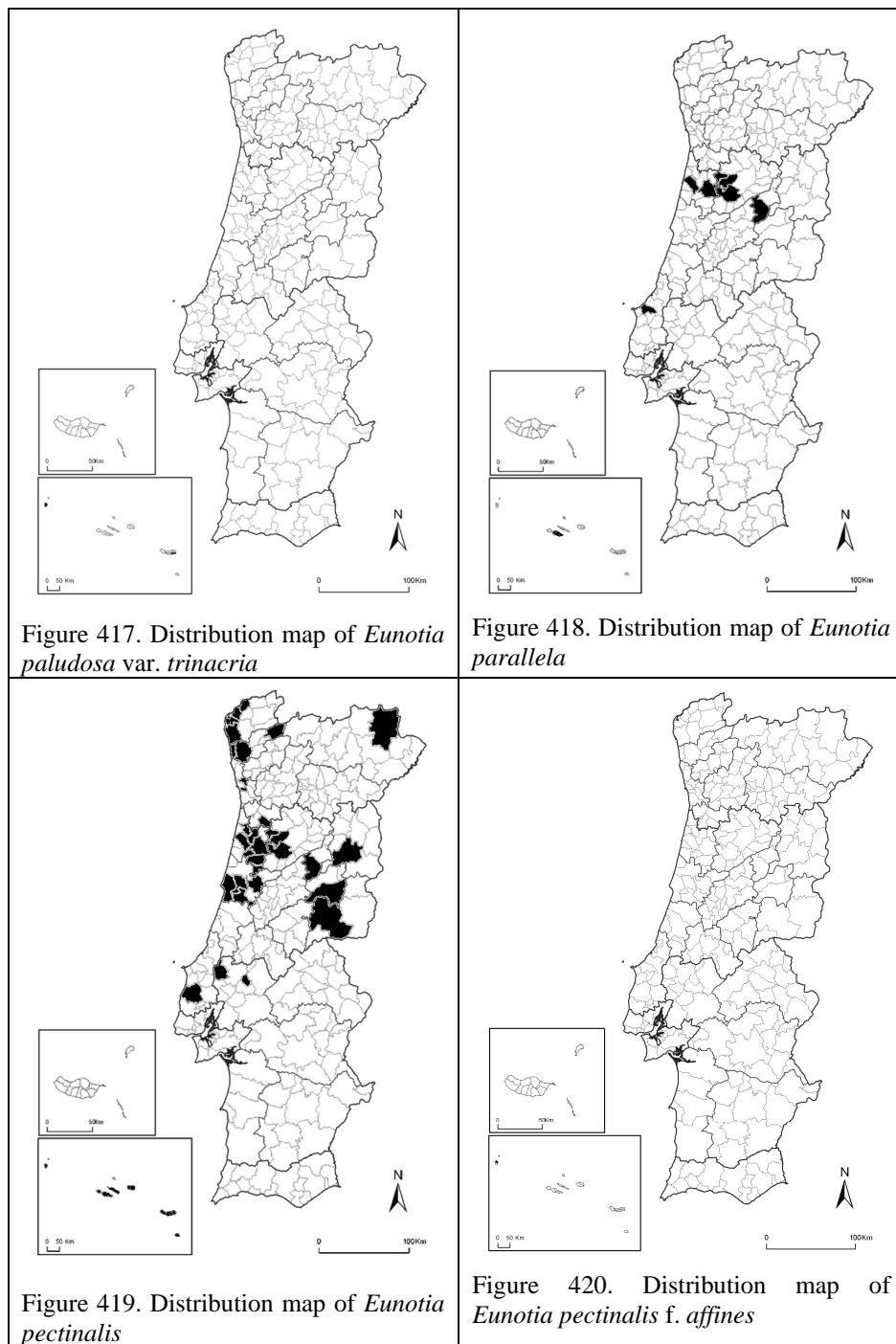


Figure 411. Distribution map of *Eunotia monodon* var. *major*

Figure 412. Distribution map of *Eunotia monodon* f. *curta*





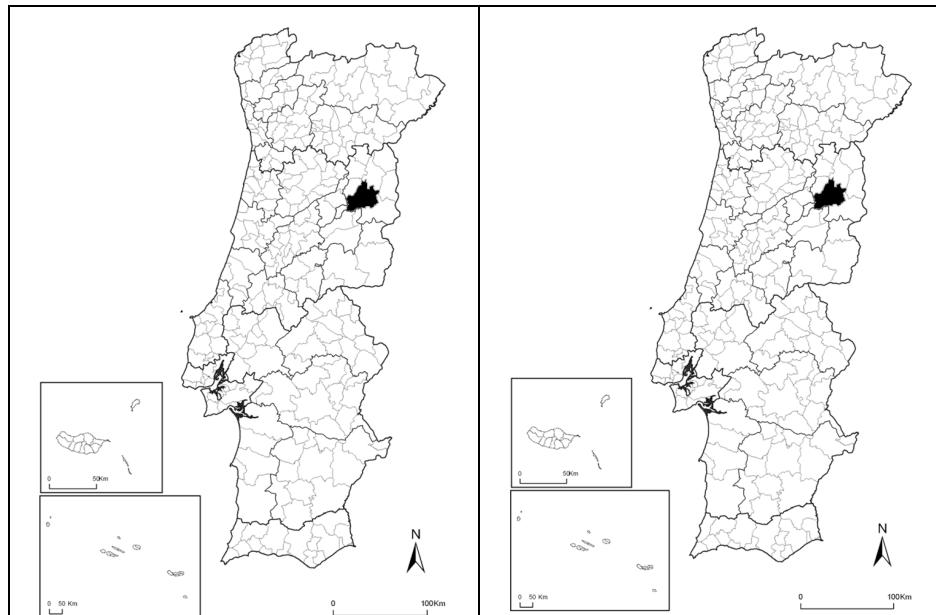


Figure 421. Distribution map of *Eunotia pectinalis* f. *curta*

Figure 422. Distribution map of *Eunotia pectinalis* f. *elongata*

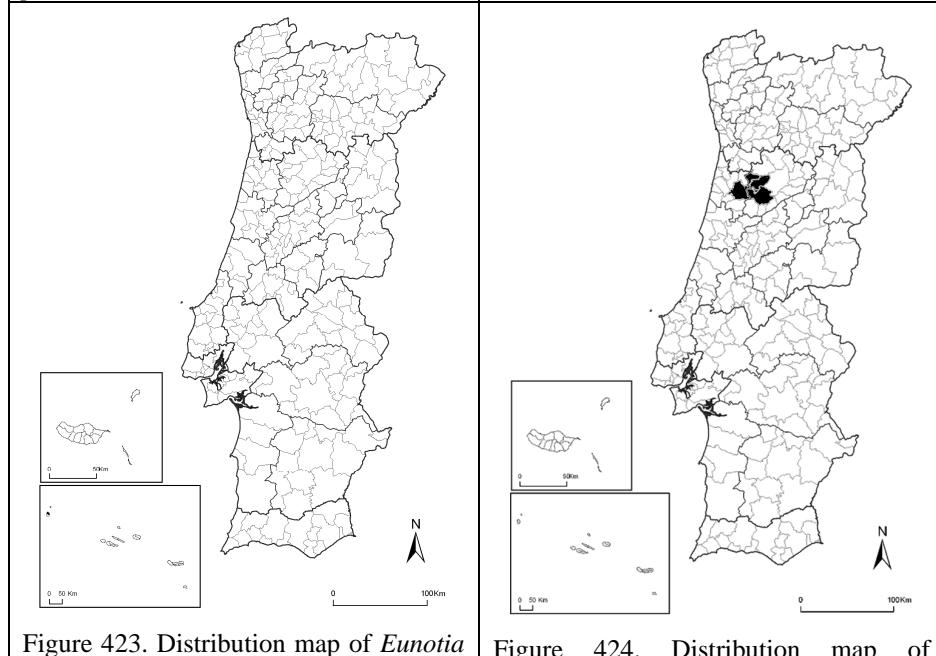
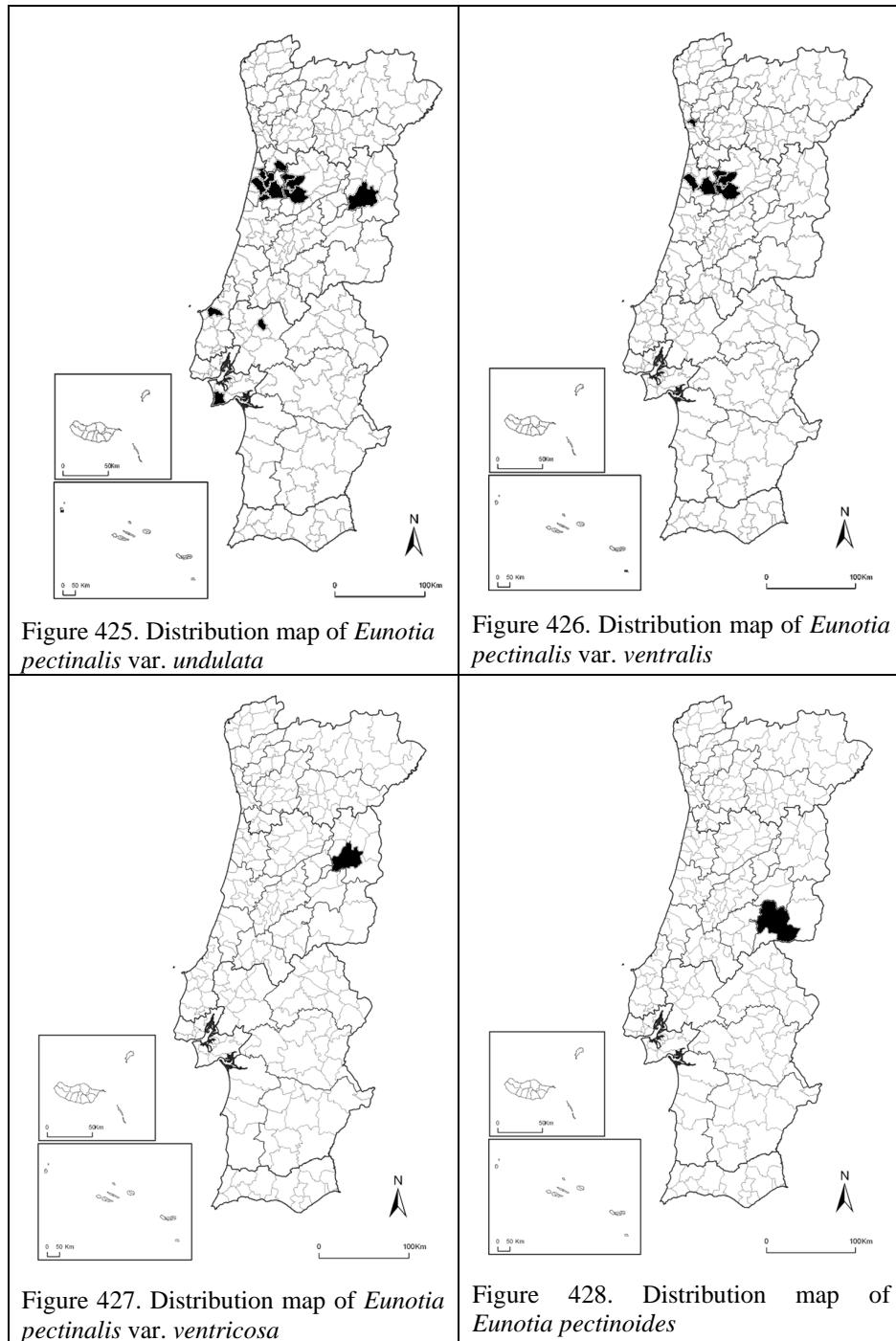
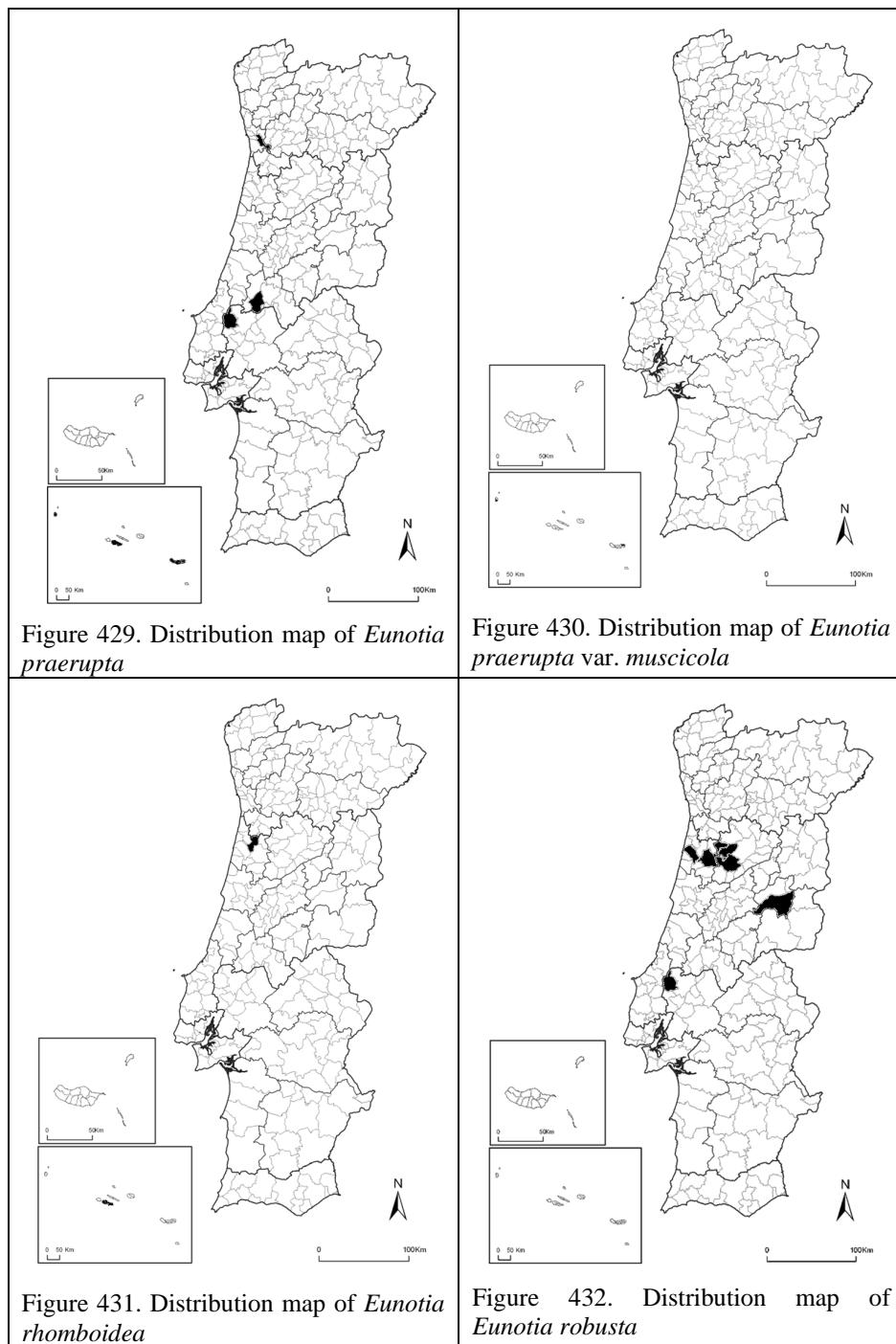
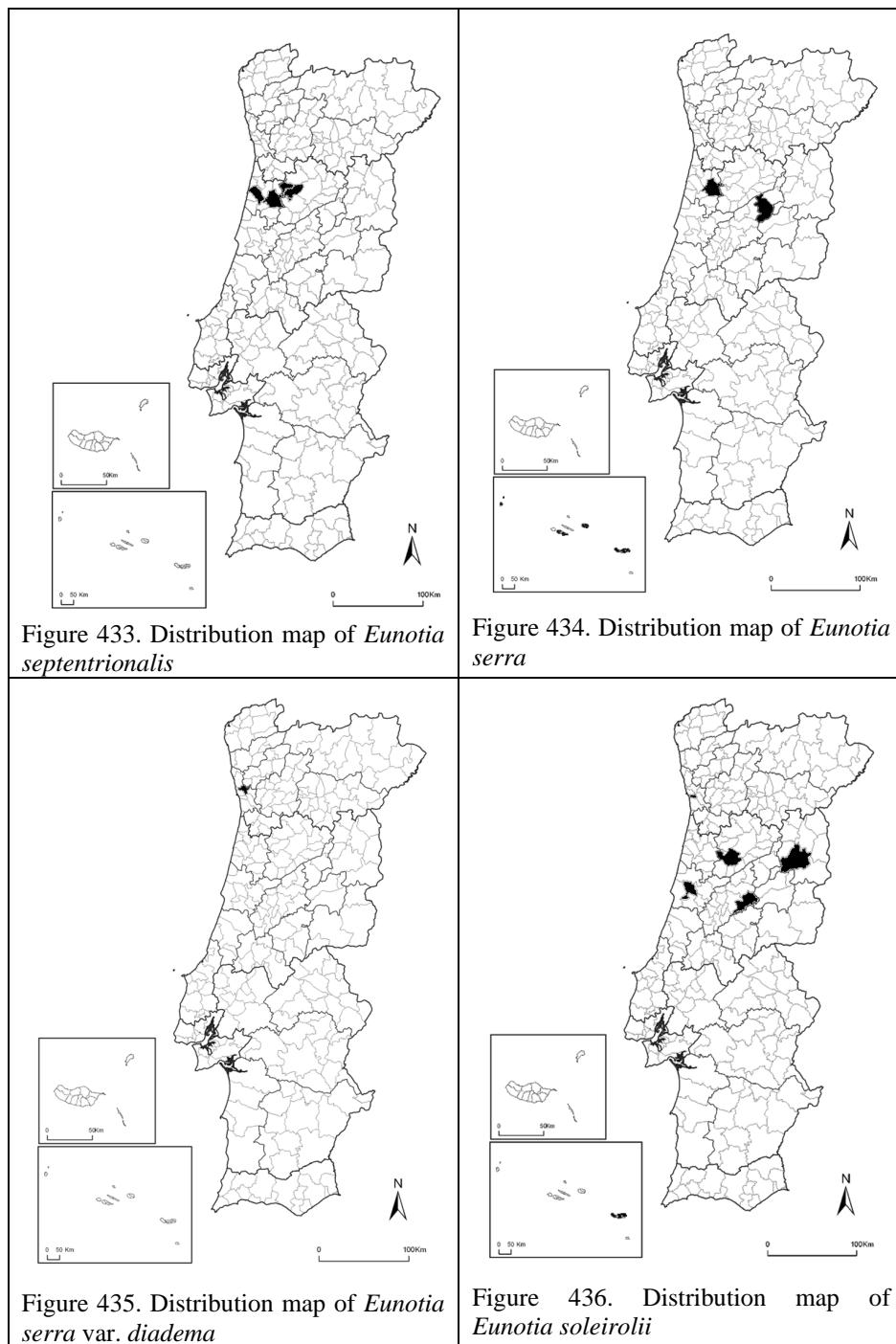


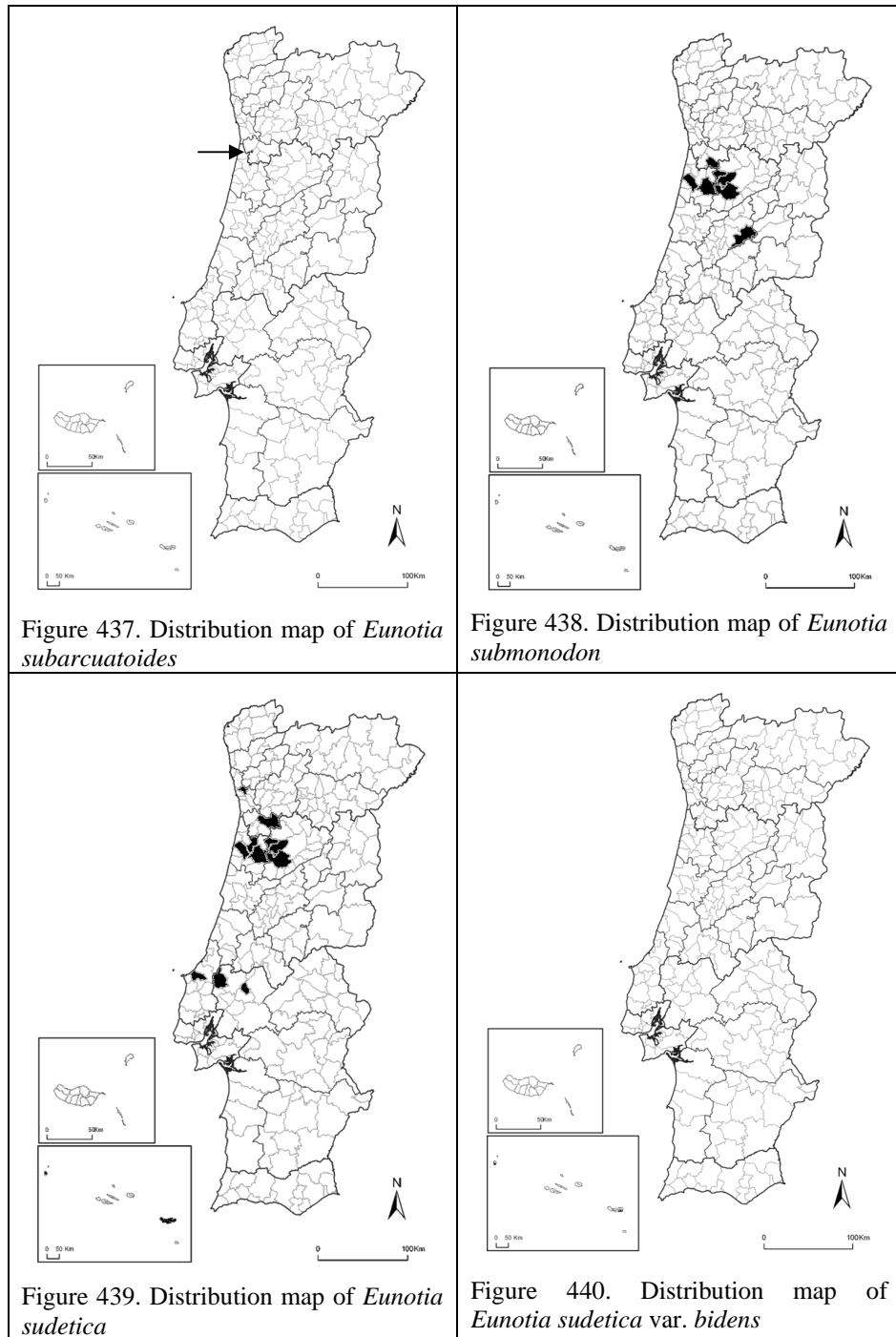
Figure 423. Distribution map of *Eunotia pectinalis* f. *impressa*

Figure 424. Distribution map of *Eunotia pectinalis* var. *rostrata*









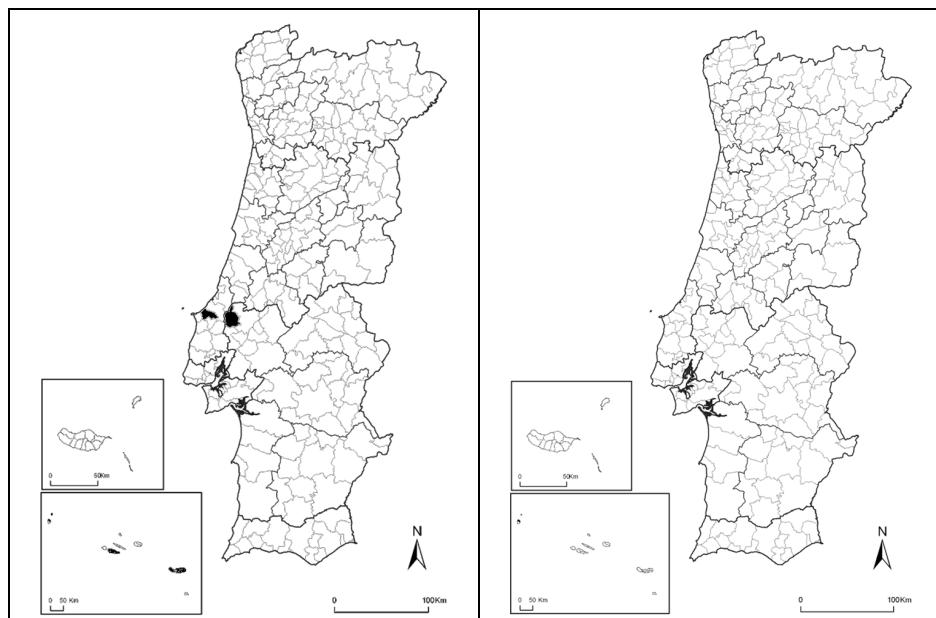


Figure 441. Distribution map of *Eunotia tetraodon*

Figure 442. Distribution map of *Eunotia trinacria* var. *undulata*

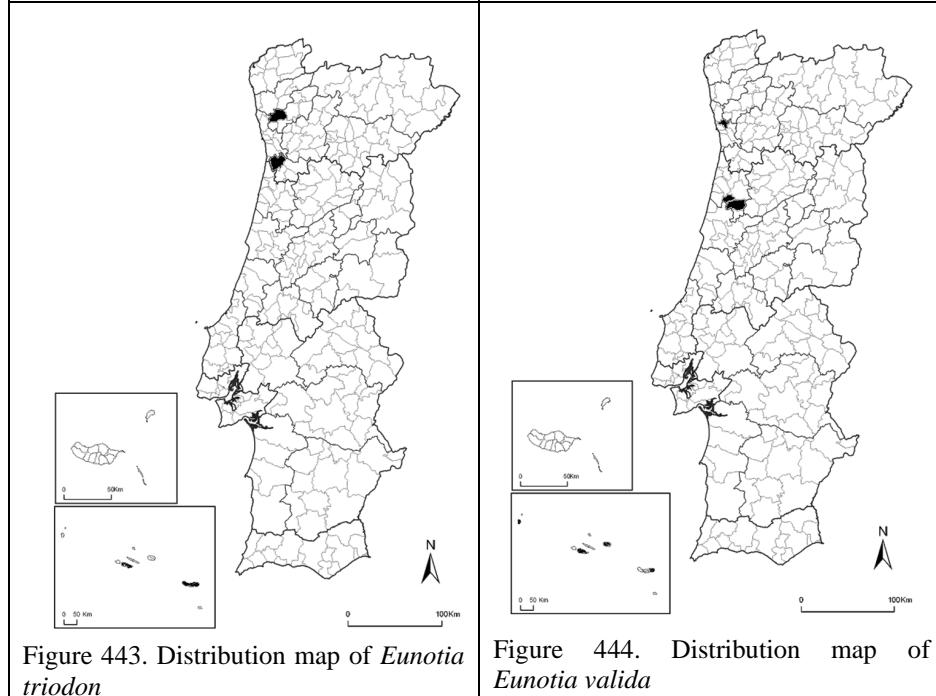


Figure 443. Distribution map of *Eunotia triodon*

Figure 444. Distribution map of *Eunotia valida*

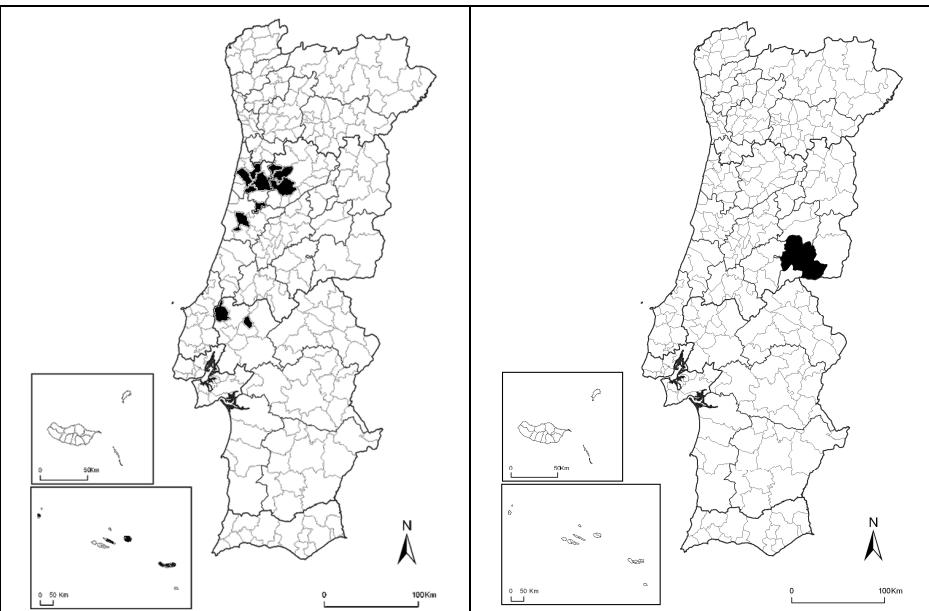


Figure 445. Distribution map of *Eunotia venoris*

Figure 446. Distribution map of *Eunotia ventricosa*

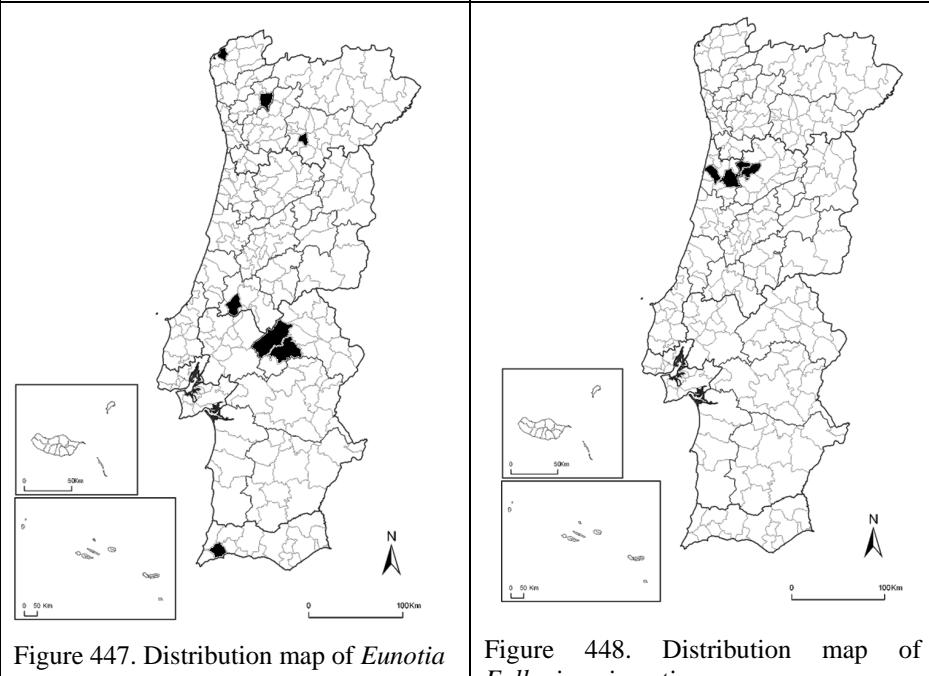


Figure 447. Distribution map of *Eunotia* sp.

Figure 448. Distribution map of *Fallacia enigmatica*

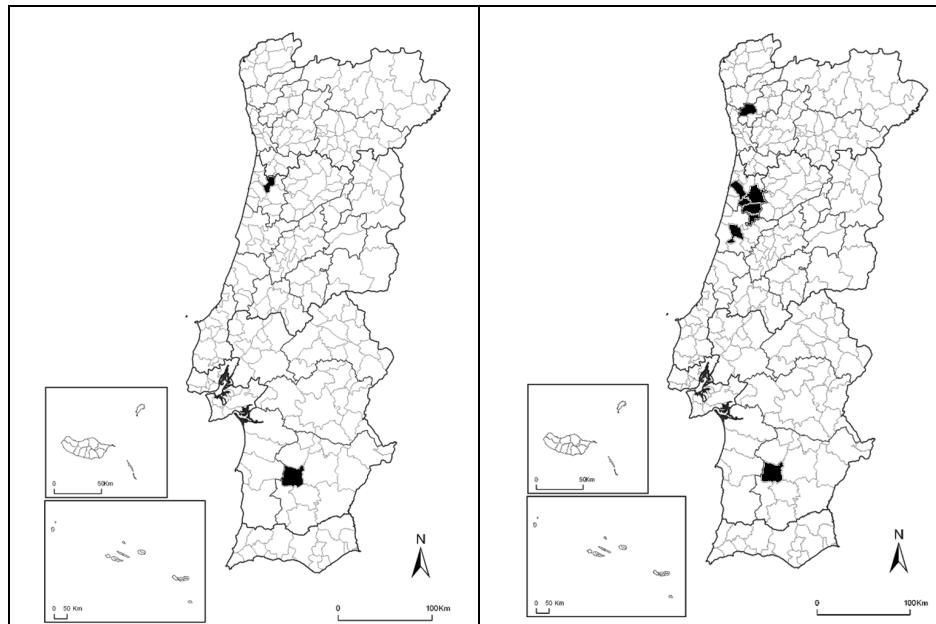


Figure 449. Distribution map of *Fallacia insociabilis*

Figure 450. Distribution map of *Fallacia pygmaea*

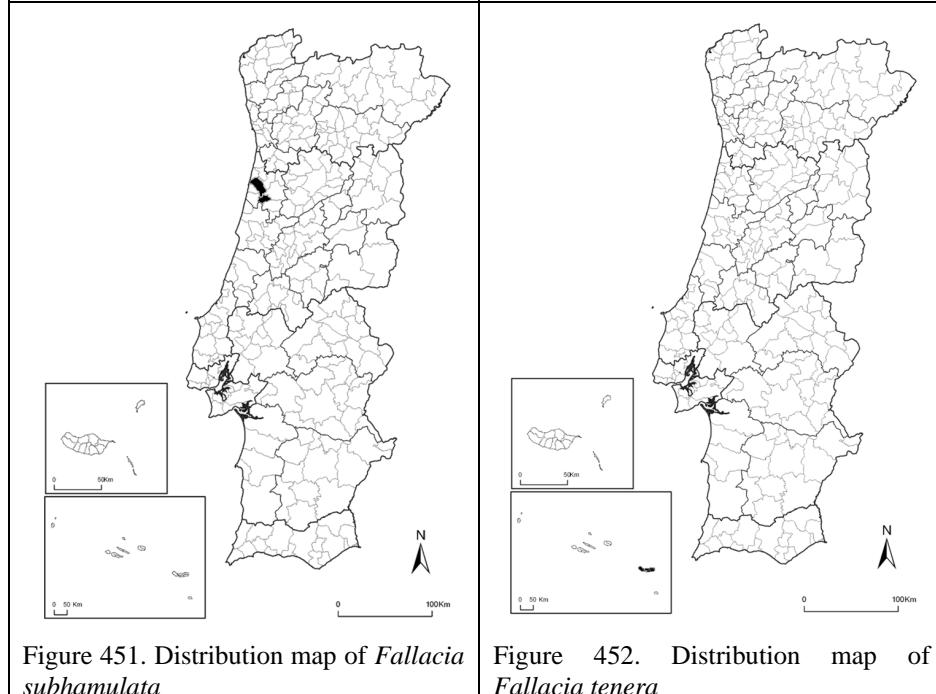
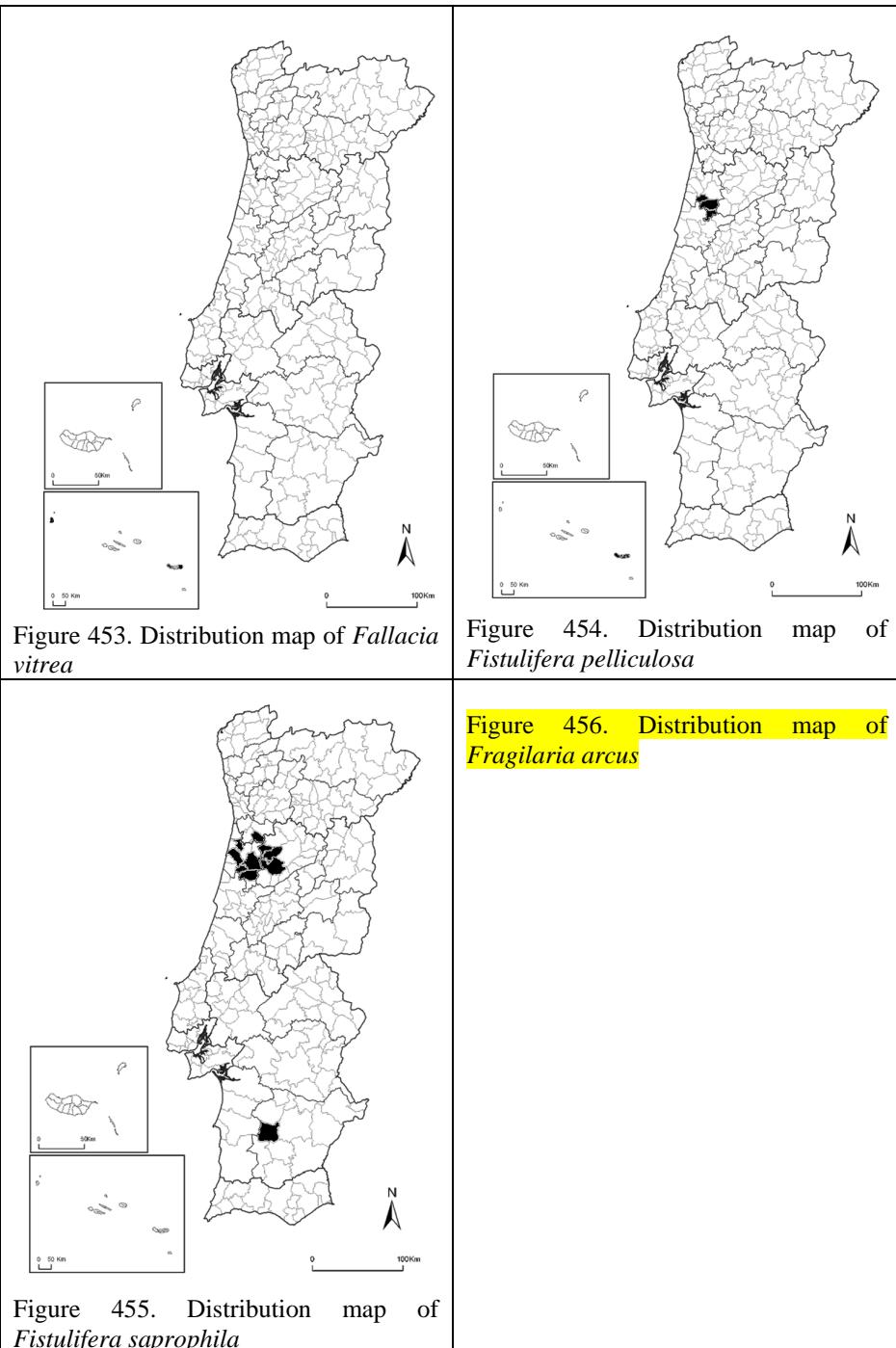


Figure 451. Distribution map of *Fallacia subhamulata*

Figure 452. Distribution map of *Fallacia tenera*



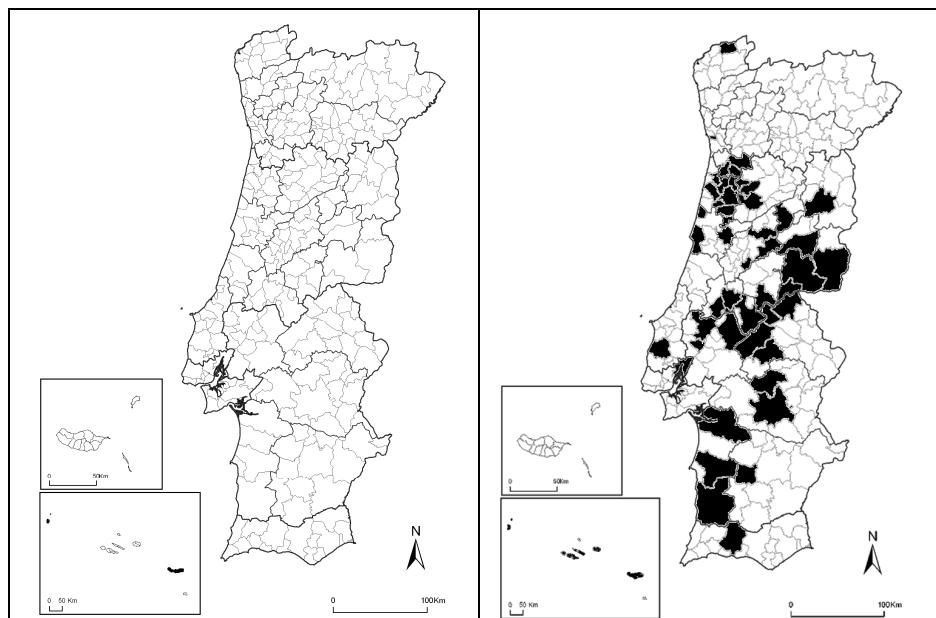


Figure 457. Distribution map of *Fragilaria bidens*

Figure 458. Distribution map of *Fragilaria capucina*

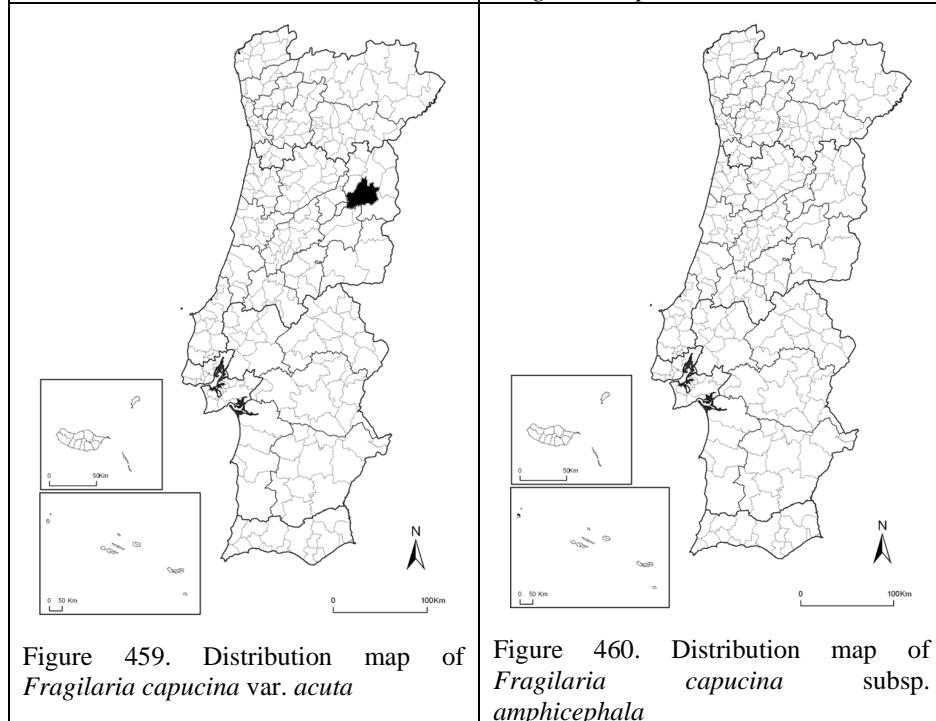


Figure 459. Distribution map of *Fragilaria capucina* var. *acuta*

Figure 460. Distribution map of *Fragilaria capucina* subsp. *amphicephala*

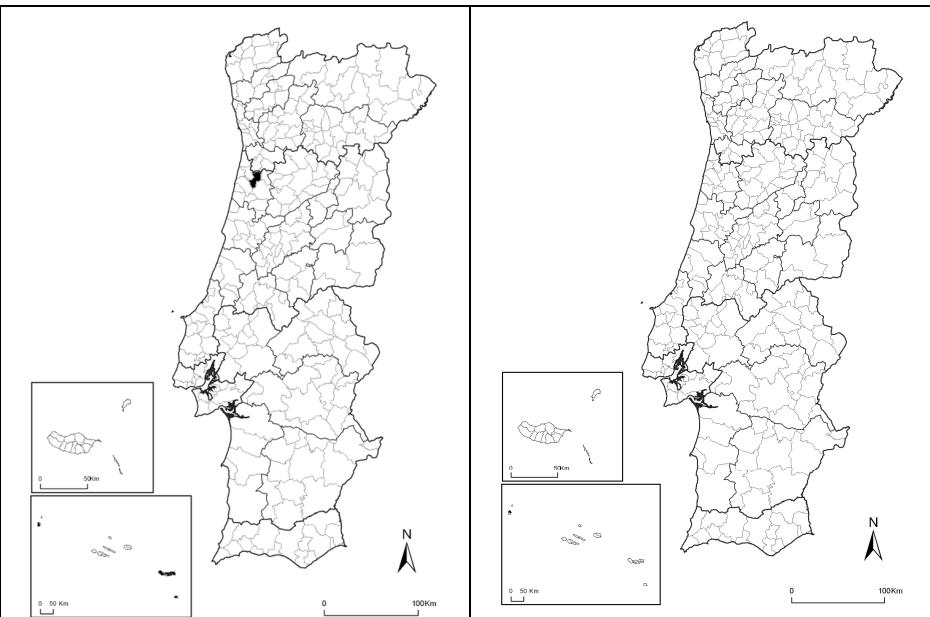


Figure 461. Distribution map of *Fragilaria capucina* var. *capitellata*

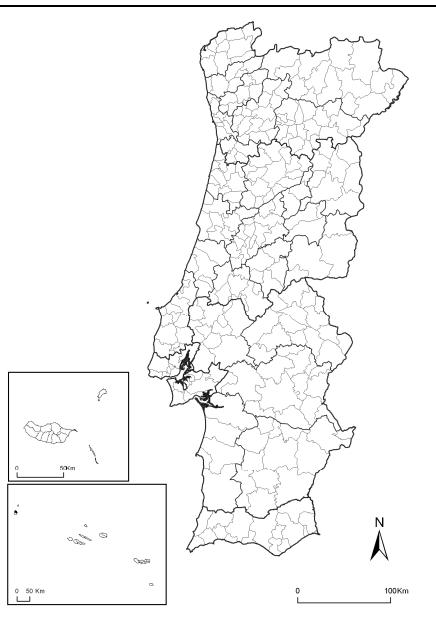


Figure 462. Distribution map of *Fragilaria capucina* var. *fragilaroides*

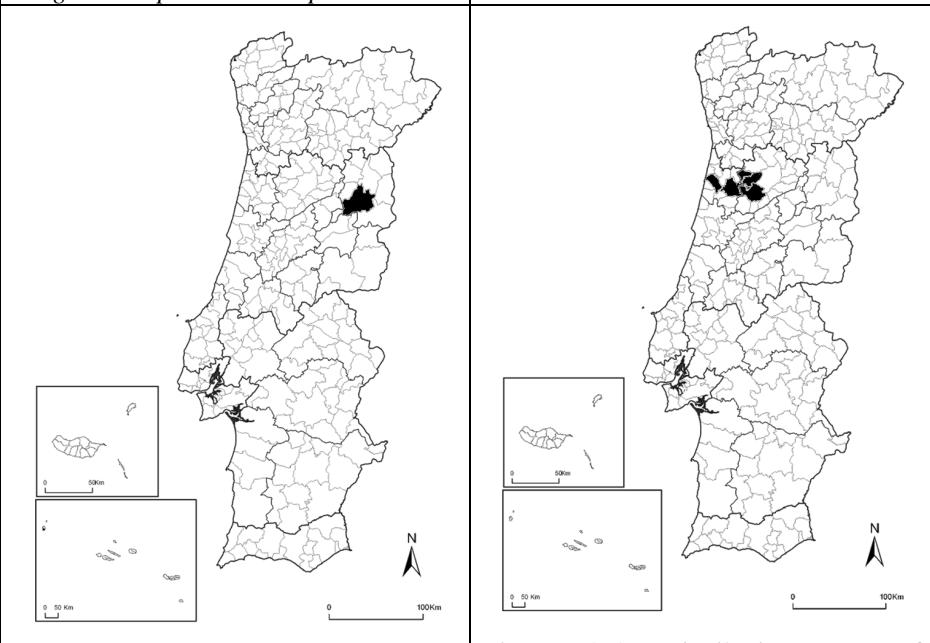


Figure 463. Distribution map of *Fragilaria capucina* var. *lanceolata*

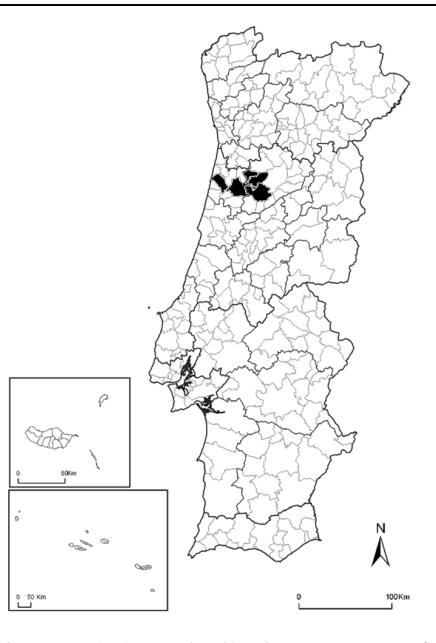


Figure 464. Distribution map of *Fragilaria capucina* fo. *minuscula*

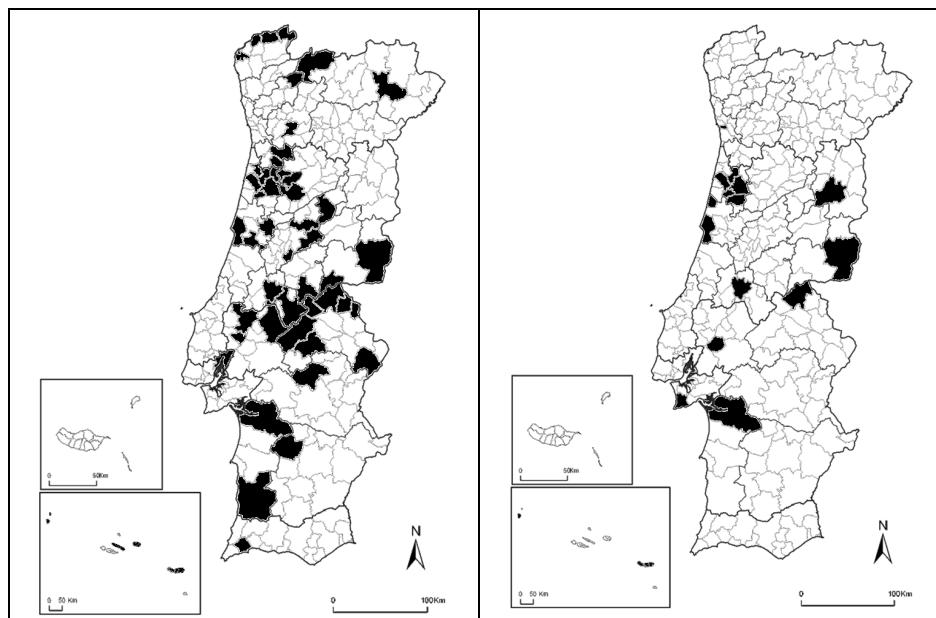


Figure 465. Distribution map of *Fragilaria crotonensis*

Figure 466. Distribution map of *Fragilaria danica*

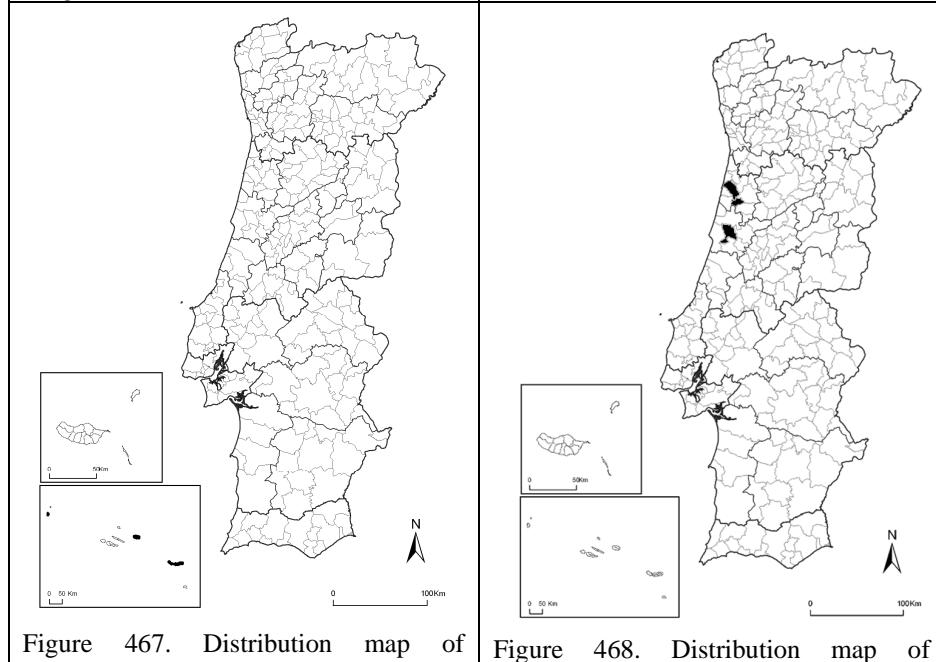


Figure 467. Distribution map of *Fragilaria delicatissima*

Figure 468. Distribution map of *Fragilaria dilatata*

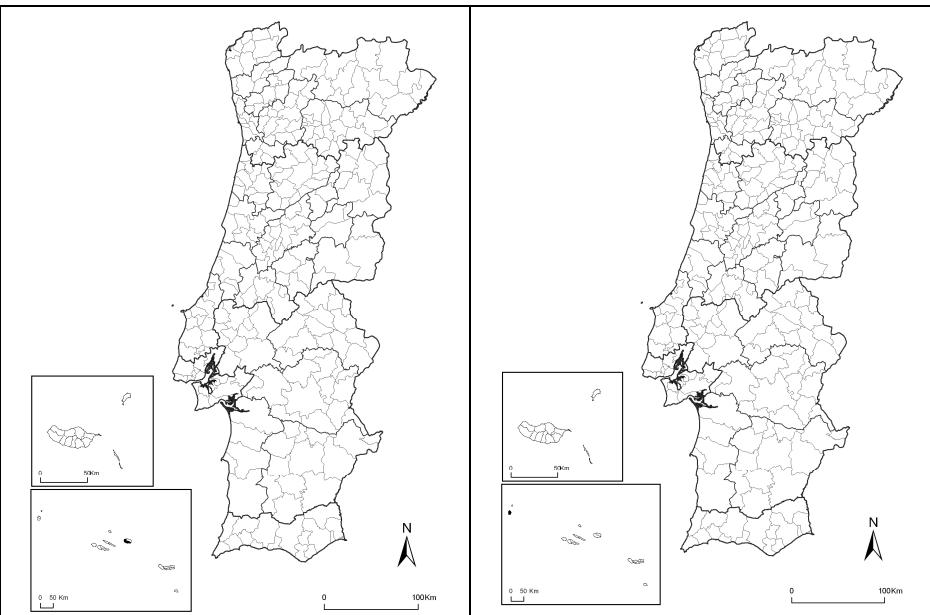


Figure 469. Distribution map of *Fragilaria exigua*

Figure 470. Distribution map of *Fragilaria fragilariodes*

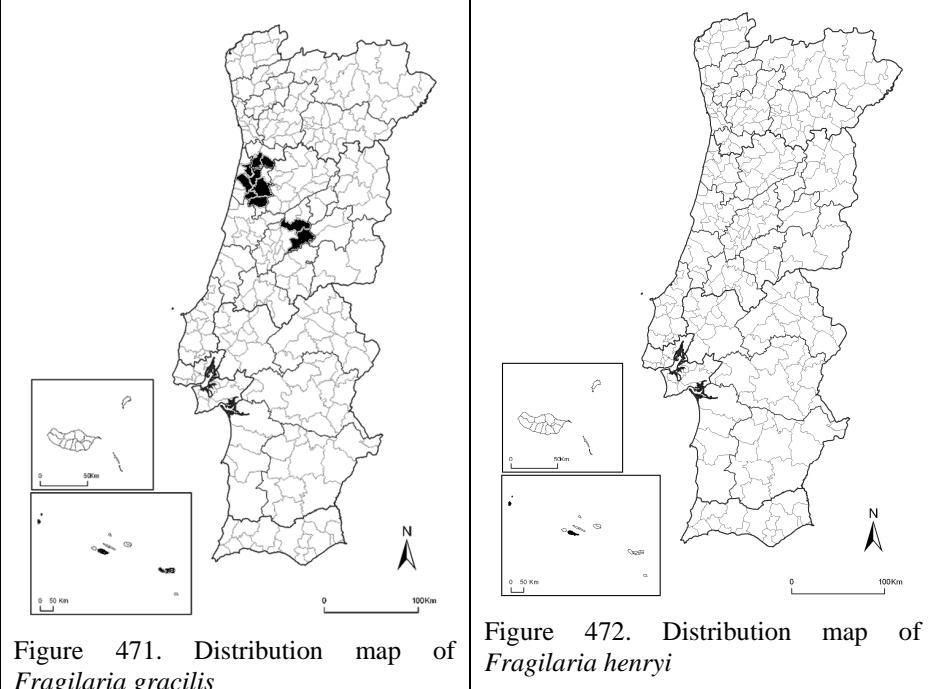


Figure 471. Distribution map of *Fragilaria gracilis*

Figure 472. Distribution map of *Fragilaria henryi*

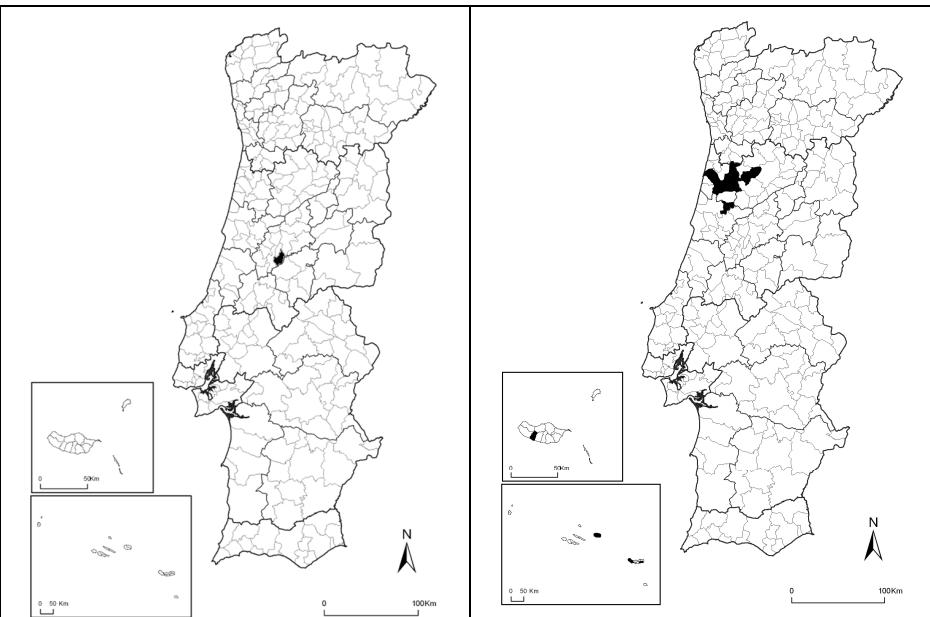


Figure 473. Distribution map of *Fragilaria inflata*

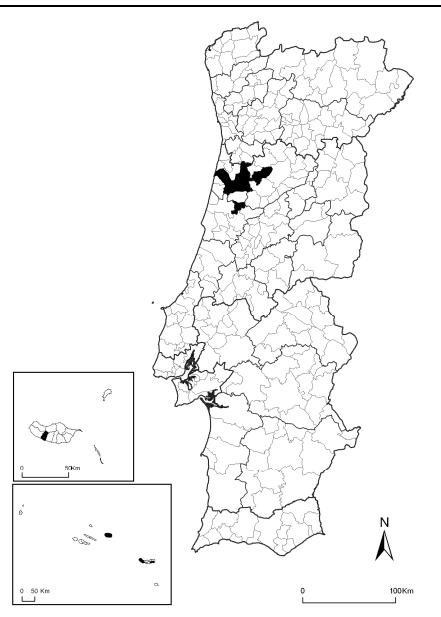


Figure 474. Distribution map of *Fragilaria intermedia*

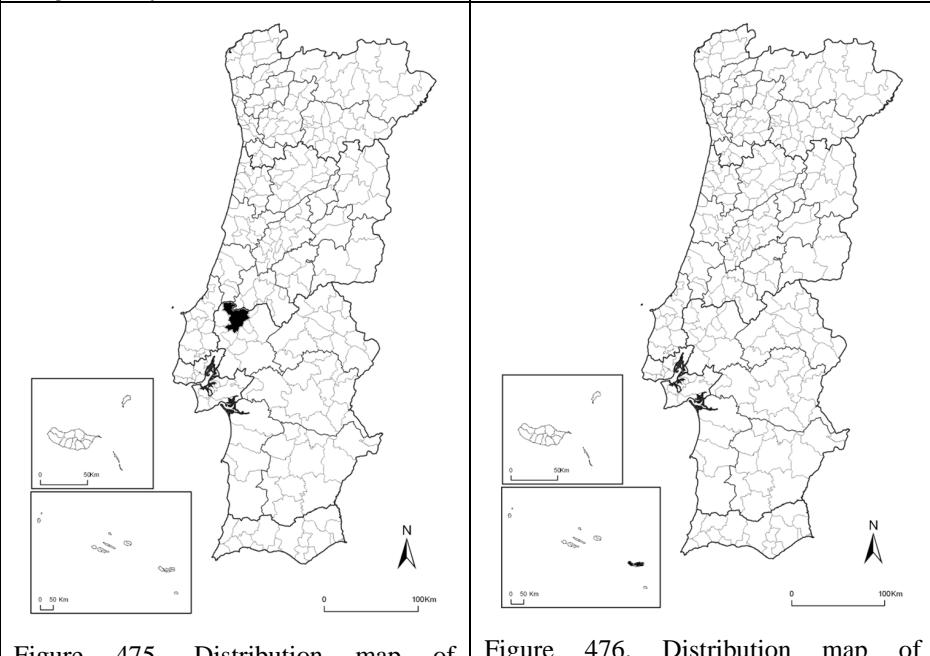


Figure 475. Distribution map of *Fragilaria islandica*



Figure 476. Distribution map of *Fragilaria lapponica*

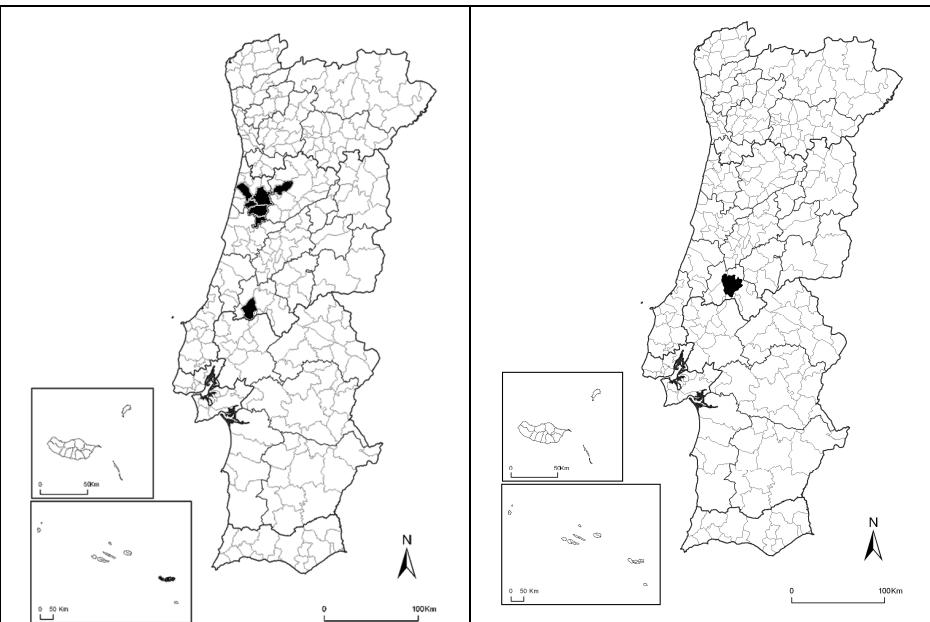


Figure 477. Distribution map of *Fragilaria mesolepta*

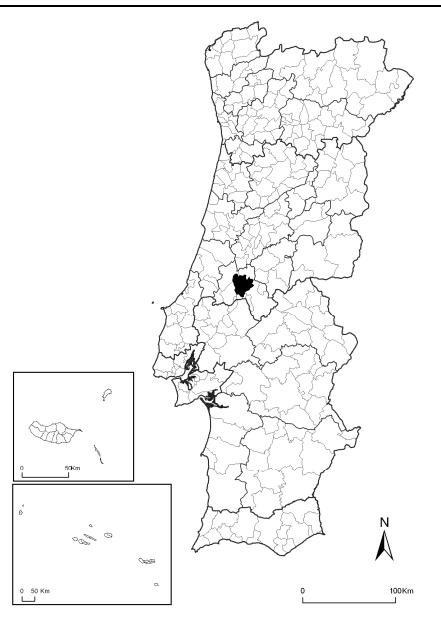


Figure 478. Distribution map of *Fragilaria miniscula*

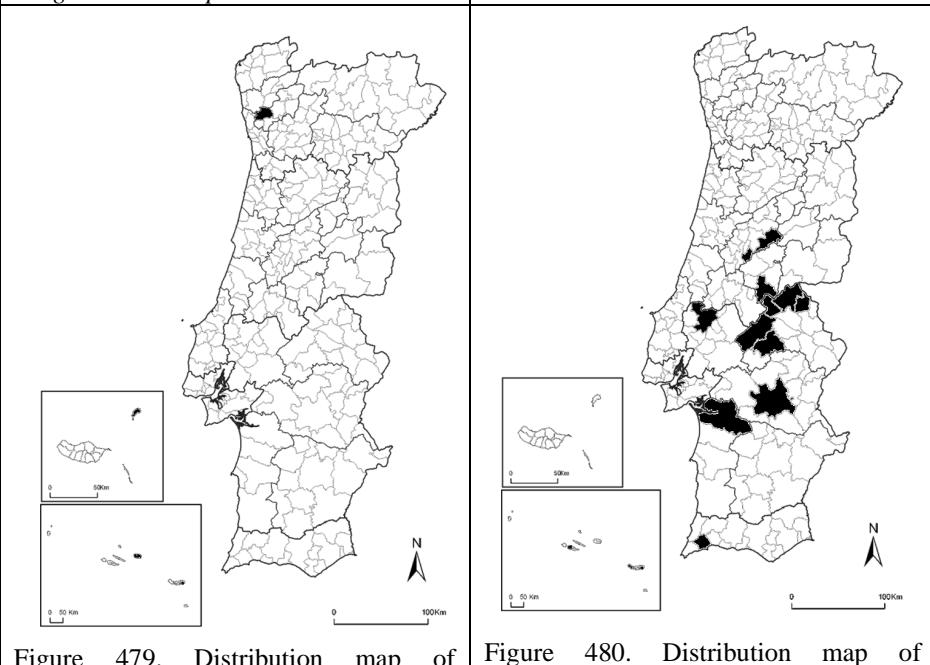


Figure 479. Distribution map of *Fragilaria mutabilis*

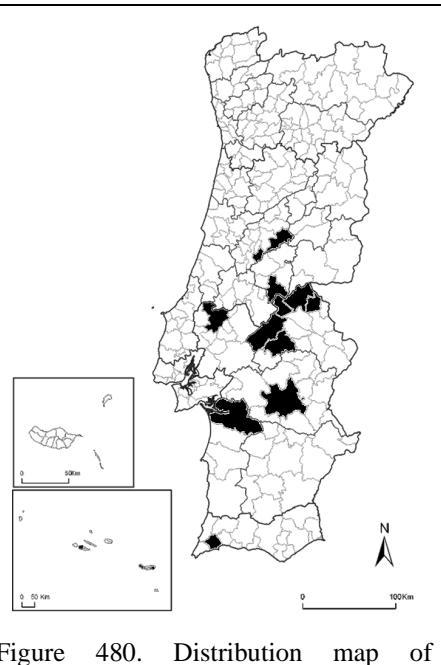


Figure 480. Distribution map of *Fallacia nana*

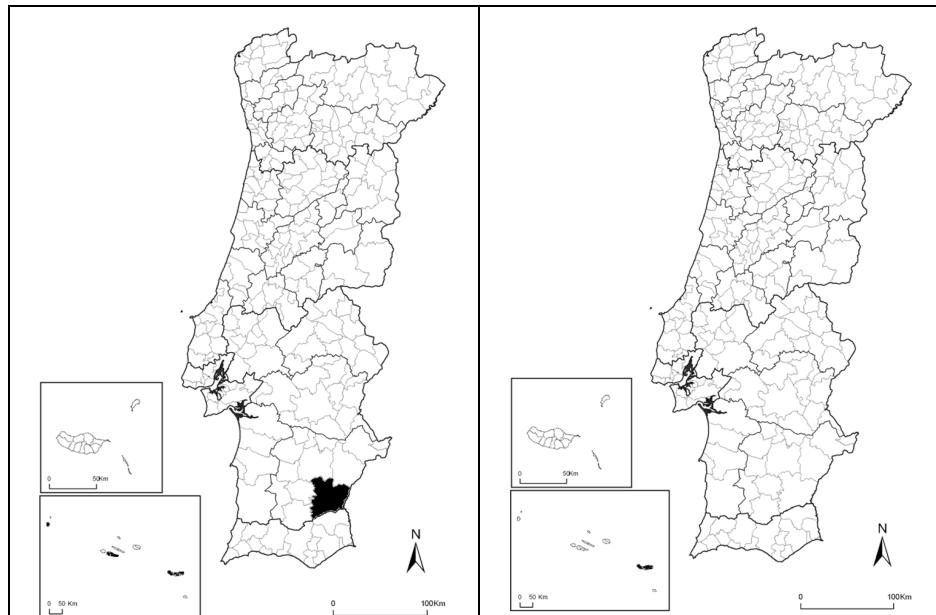


Figure 481. Distribution map of *Fragilaria nanana*

Figure 482. Distribution map of *Fragilaria neoproducta*

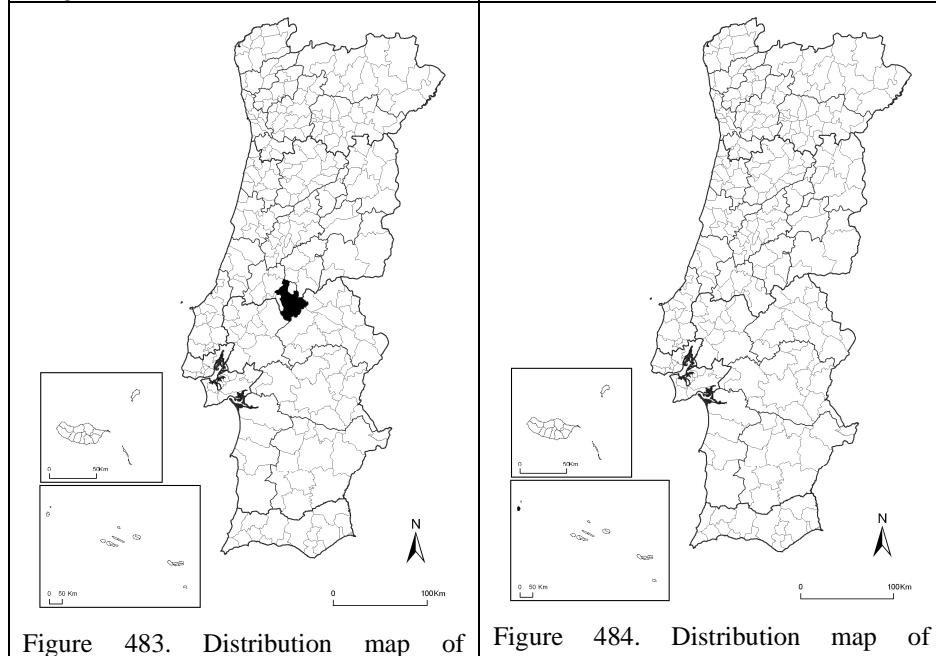
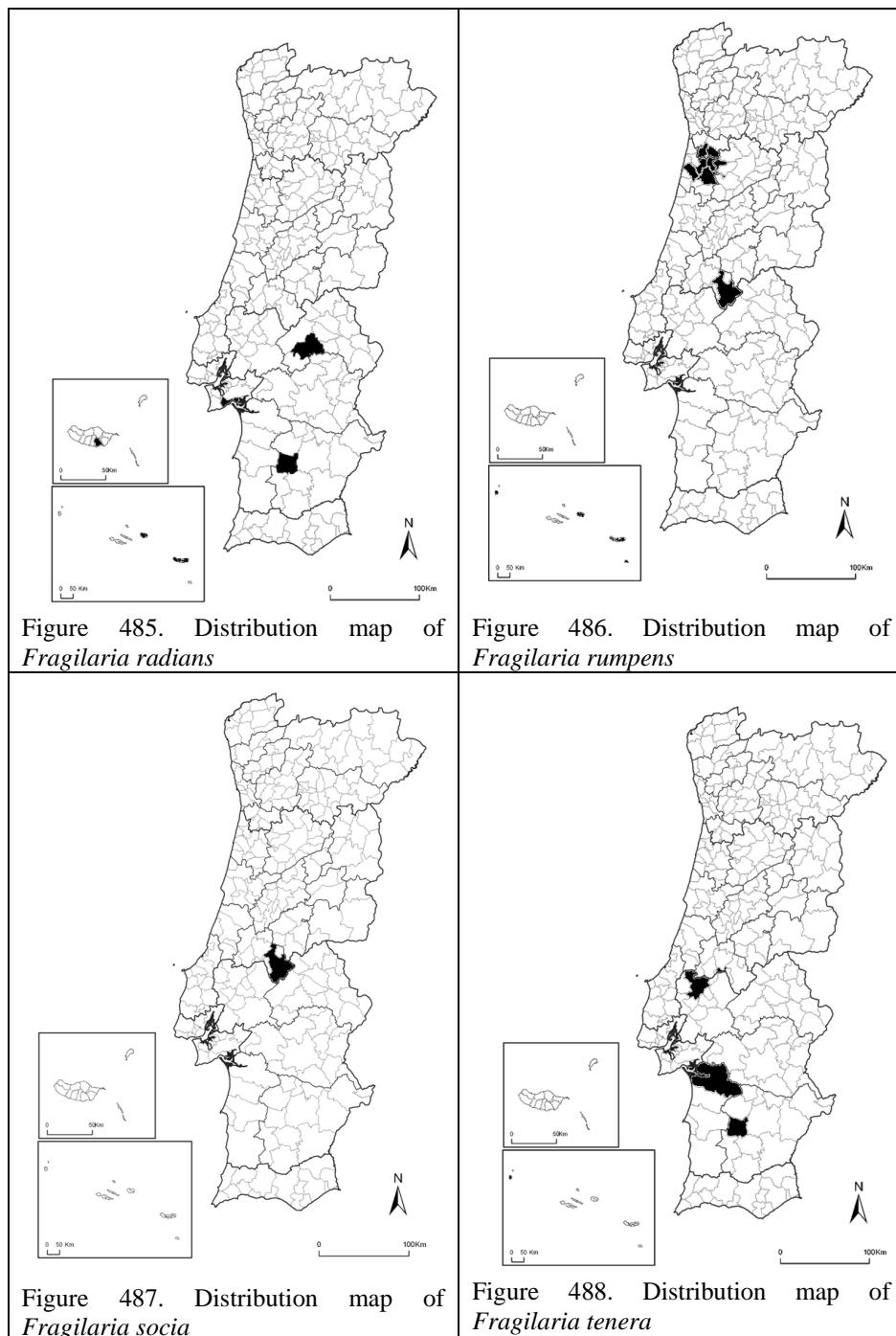


Figure 483. Distribution map of *Fragilaria pinnata* var. *robusta*

Figure 484. Distribution map of *Fragilaria punctatostriata*



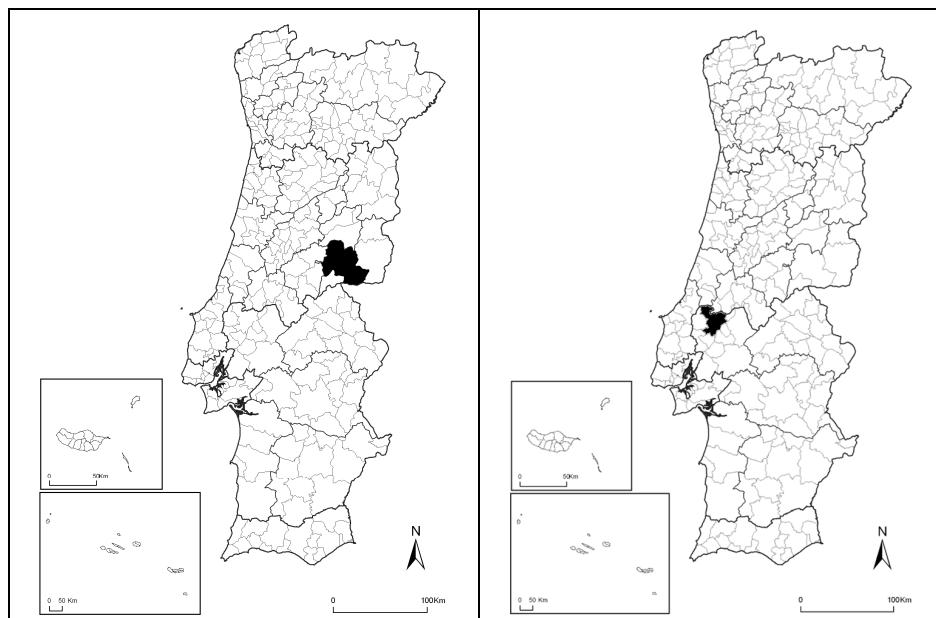


Figure 489. Distribution map of *Fragilaria tenuicollis*

Figure 490. Distribution map of *Fragilaria utermoehlii*

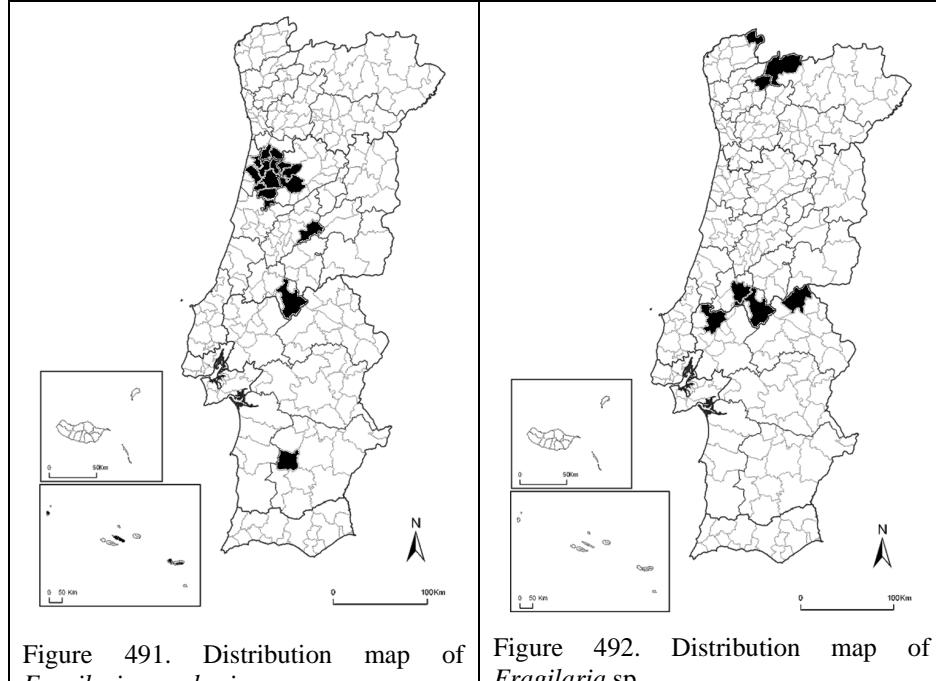


Figure 491. Distribution map of *Fragilaria vaucheriae*

Figure 492. Distribution map of *Fragilaria* sp.

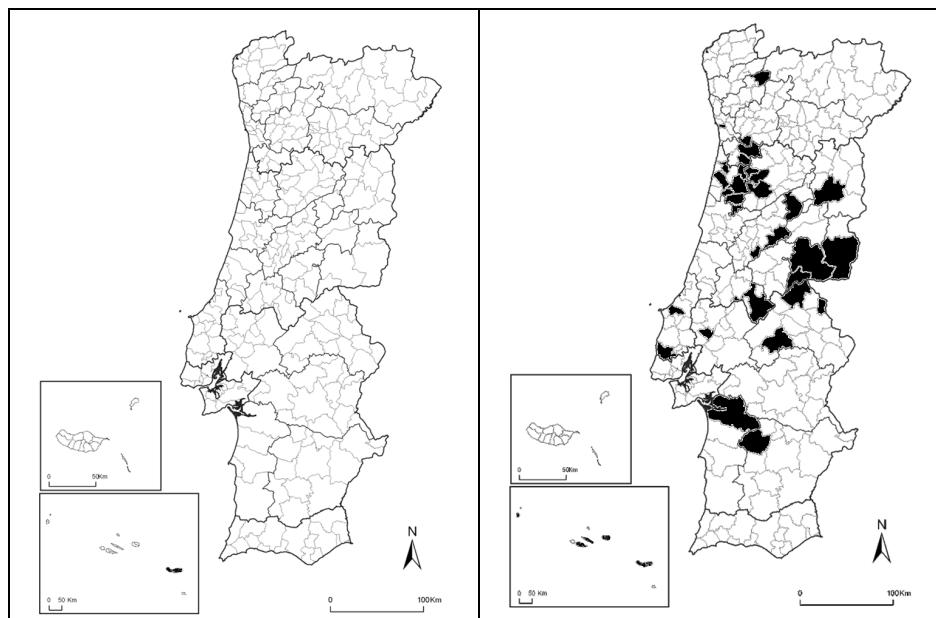


Figure 493. Distribution map of *Fragilariforma constricta*

Figure 494. Distribution map of *Fragilariforma virescens*

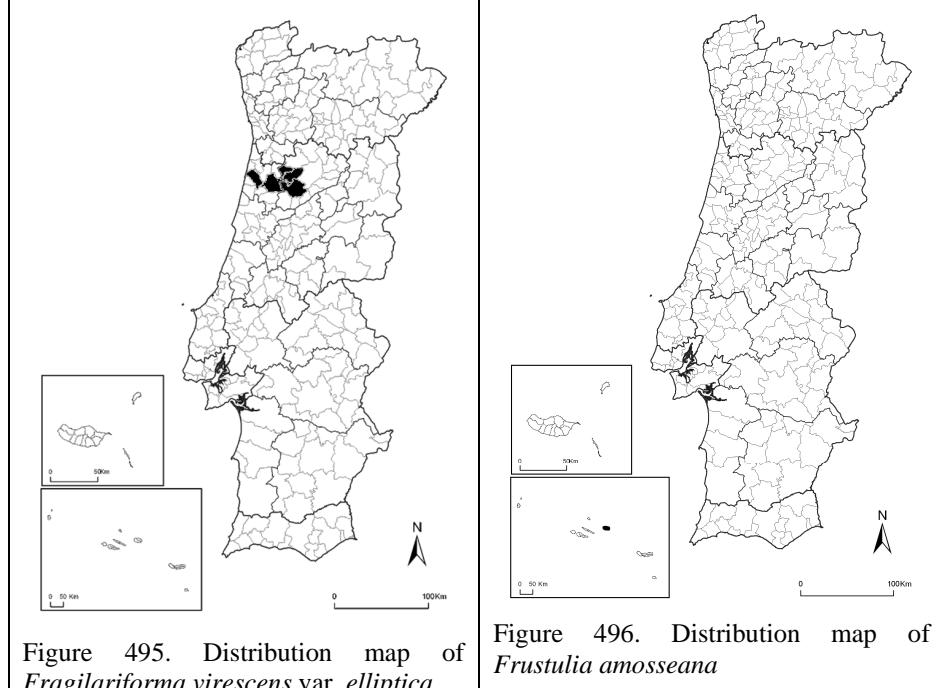


Figure 495. Distribution map of *Fragilariforma virescens* var. *elliptica*

Figure 496. Distribution map of *Frustulalia amosseana*

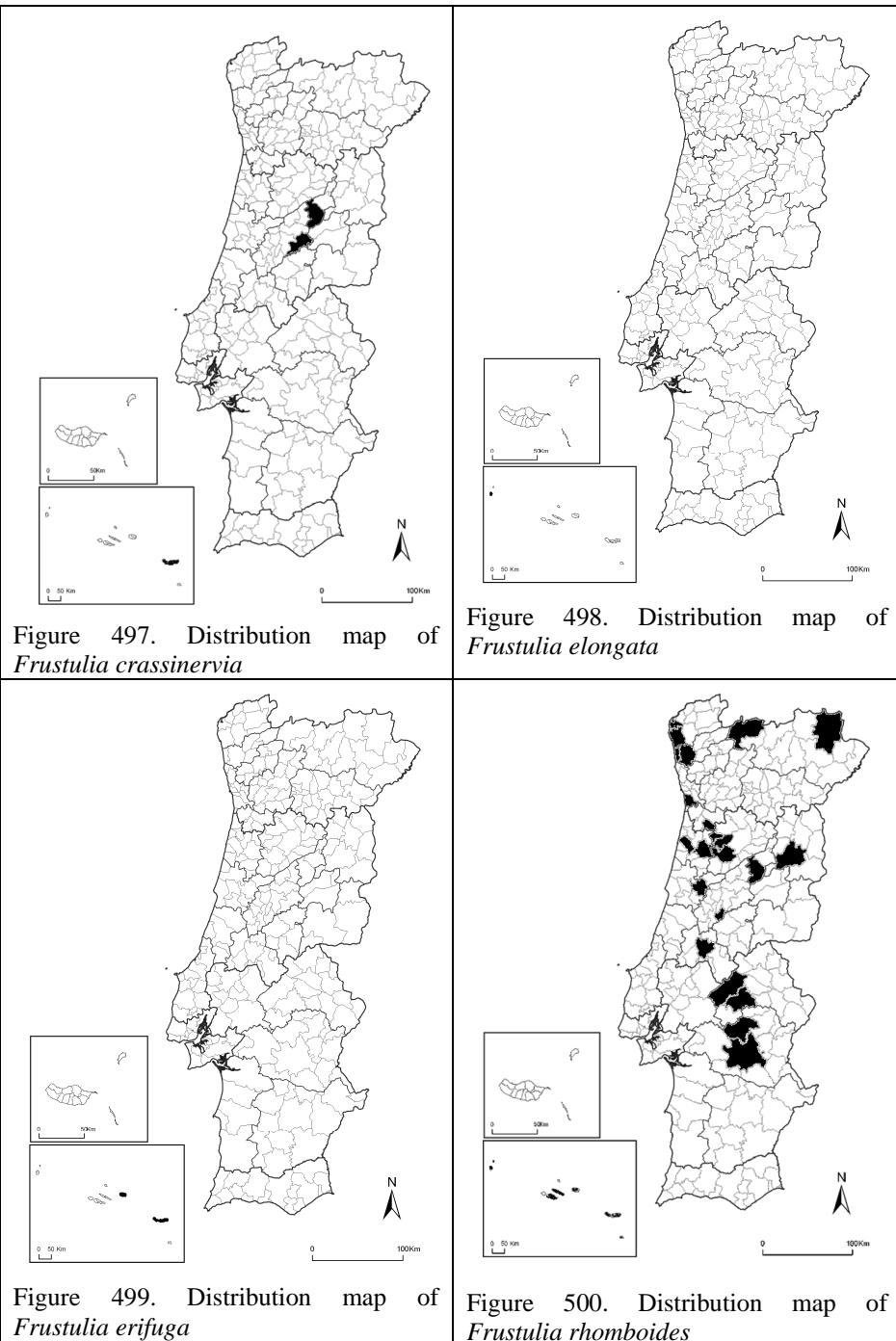
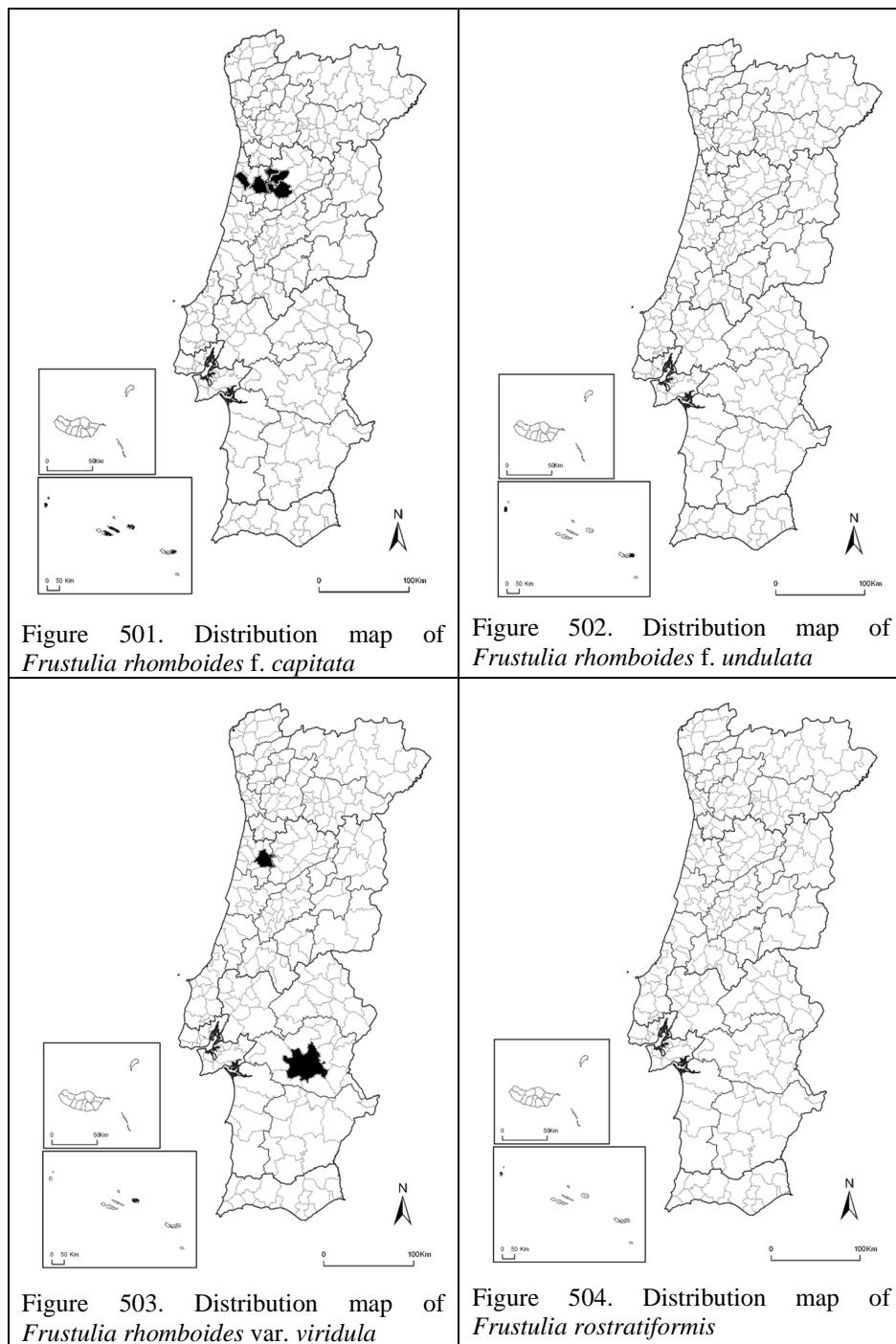


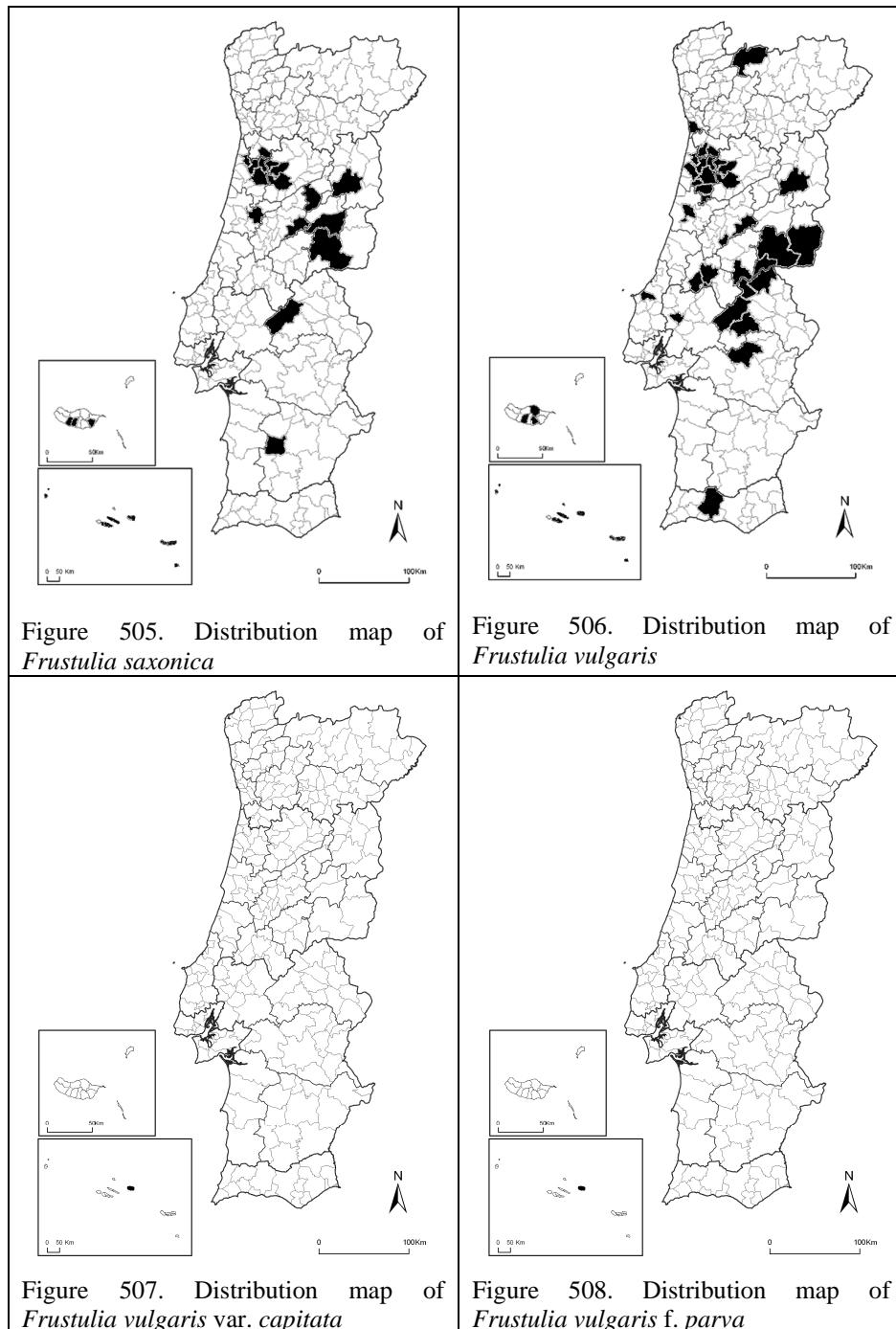
Figure 497. Distribution map of *Frustulia crassinervia*

Figure 498. Distribution map of *Frustulia elongata*

Figure 499. Distribution map of *Frustulia erifuga*

Figure 500. Distribution map of *Frustulia rhombooides*





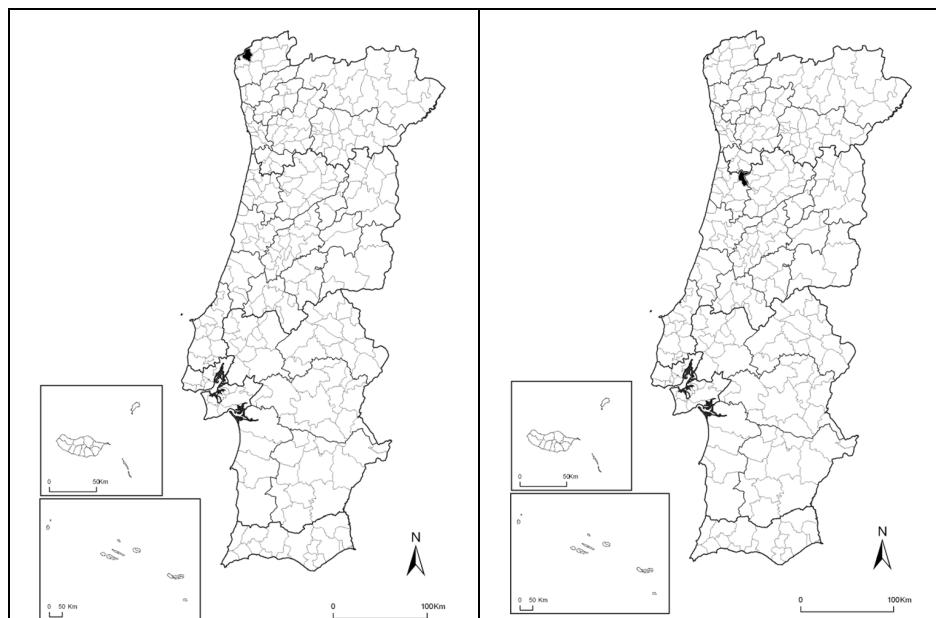


Figure 509. Distribution map of *Frustulia* sp.

Figure 510. Distribution map of *Geissleria acceptata*

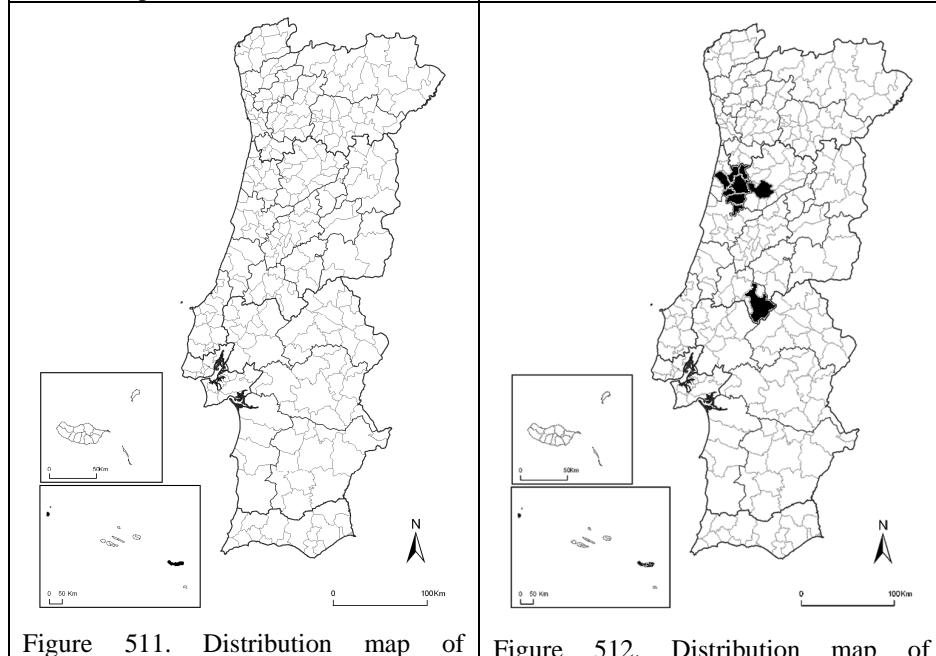


Figure 511. Distribution map of *Geissleria declivis*

Figure 512. Distribution map of *Geissleria decussis*

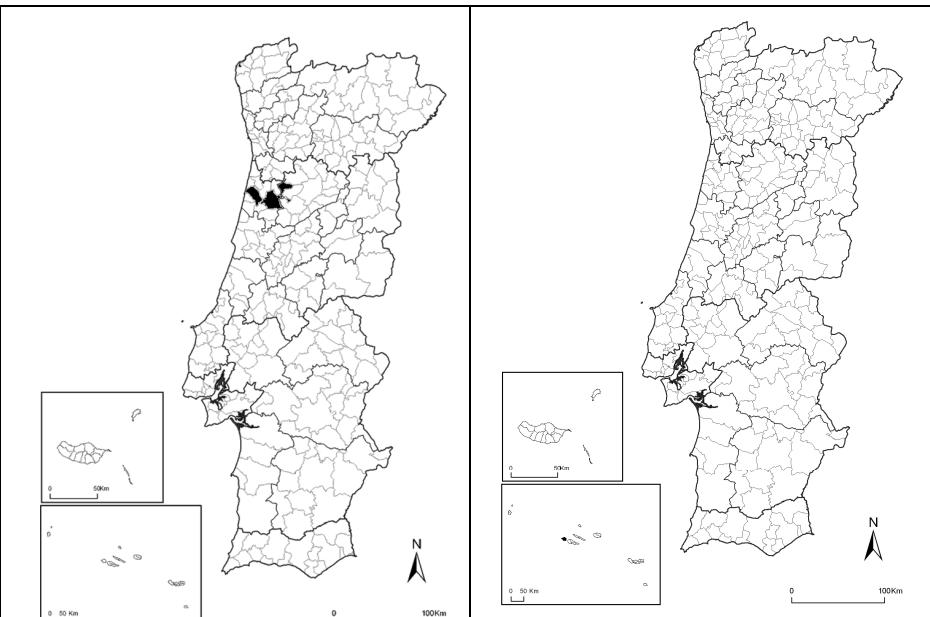


Figure 513. Distribution map of *Geissleria schoenfeldii*

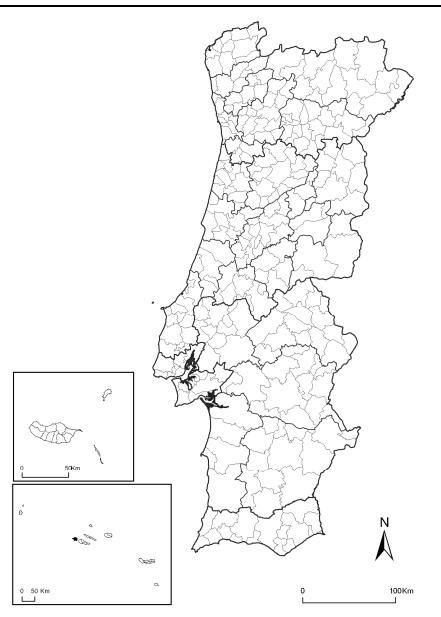


Figure 514. Distribution map of *Glyphodesmis varians*

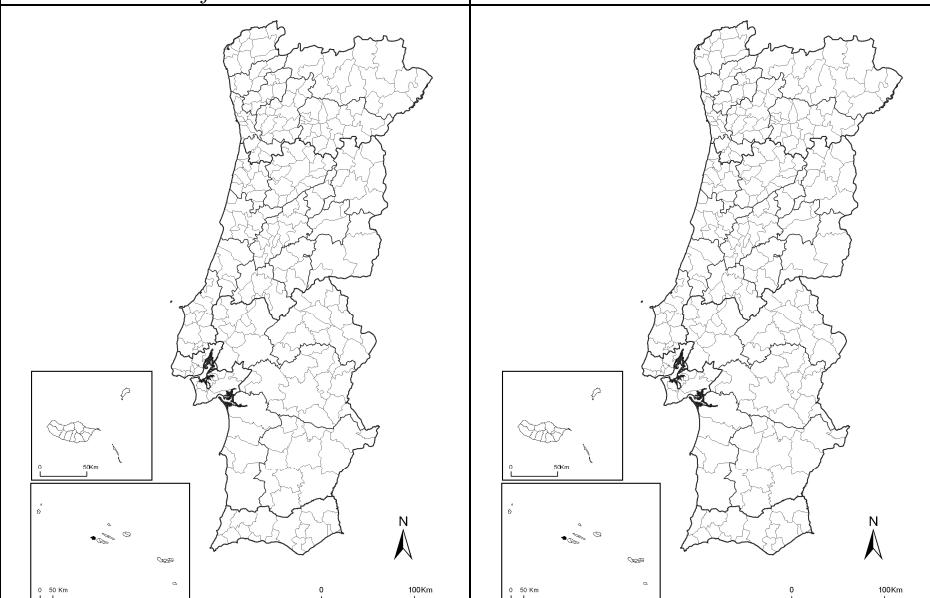


Figure 515. Distribution map of *Glyphodesmis varians* var. *elegantula*

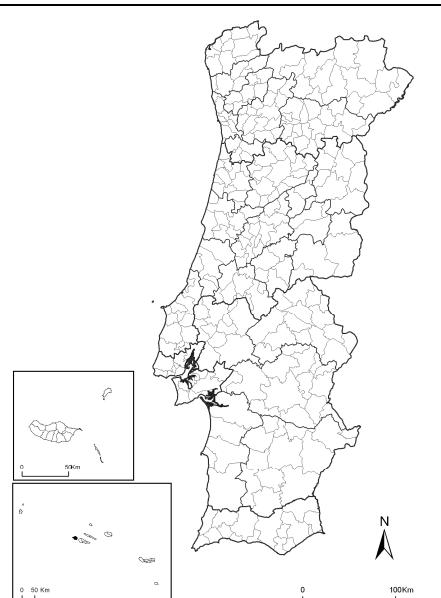


Figure 516. Distribution map of *Glyphodesmis varians* var. *elongata*

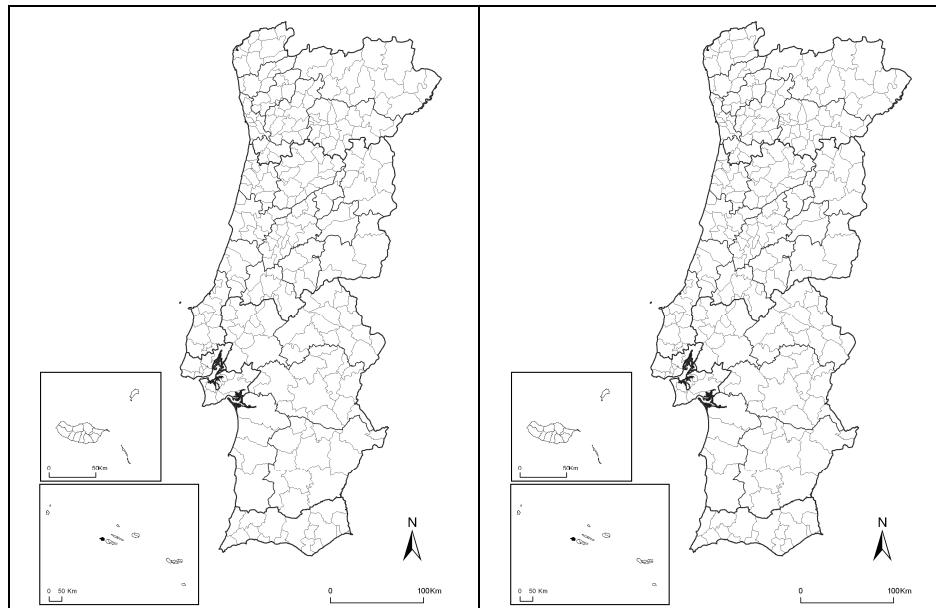


Figure 517. Distribution map of *Glyphodesmis varians* var. *genuina*

Figure 518. Distribution map of *Glyphodesmis varians* var. *tumida*

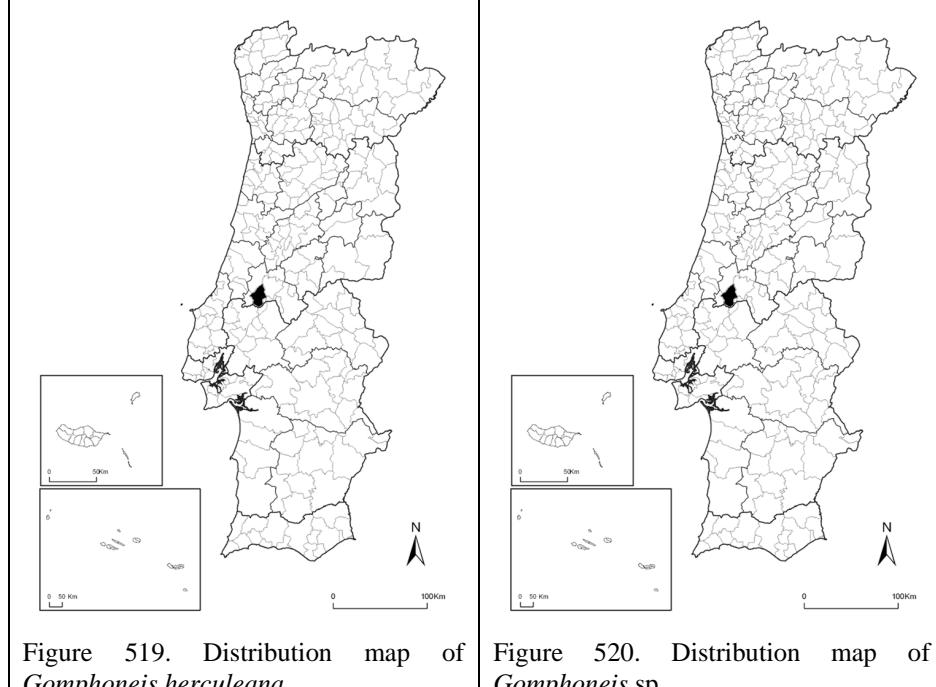


Figure 519. Distribution map of *Gomphoneis herculeana*

Figure 520. Distribution map of *Gomphoneis* sp.

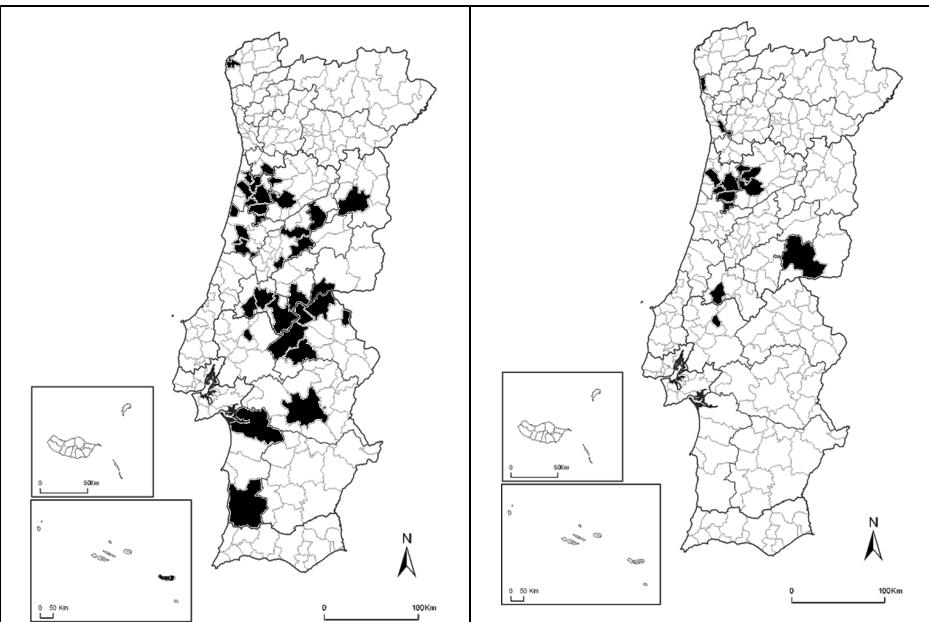


Figure 521. Distribution map of *Gomphonema acuminatum*

Figure 522. Distribution map of *Gomphonema acuminatum* var. *coronatum*

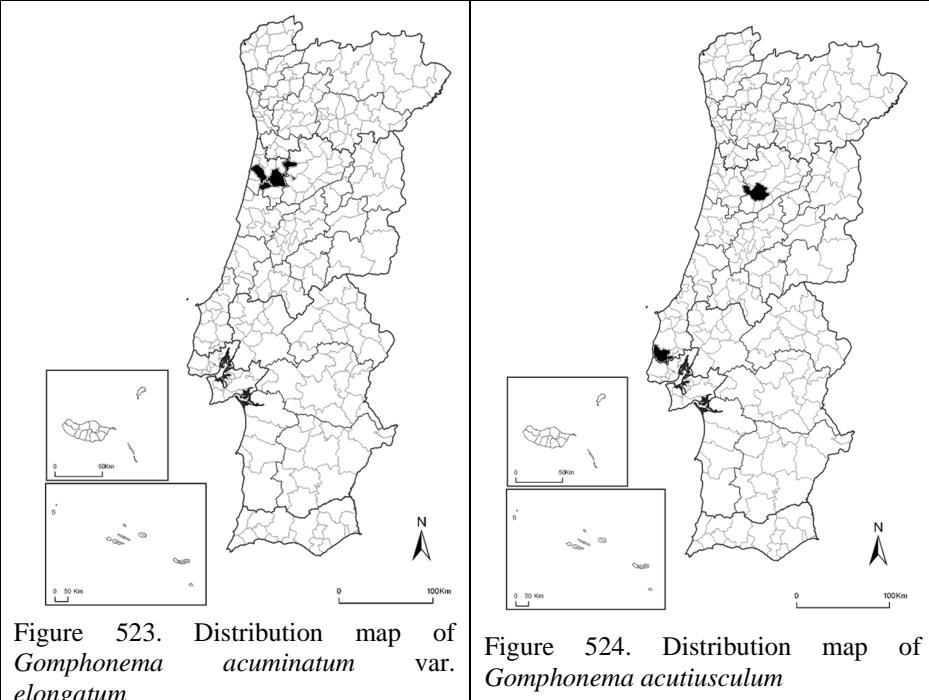


Figure 523. Distribution map of *Gomphonema acuminatum* var. *elongatum*

Figure 524. Distribution map of *Gomphonema acutiusculum*

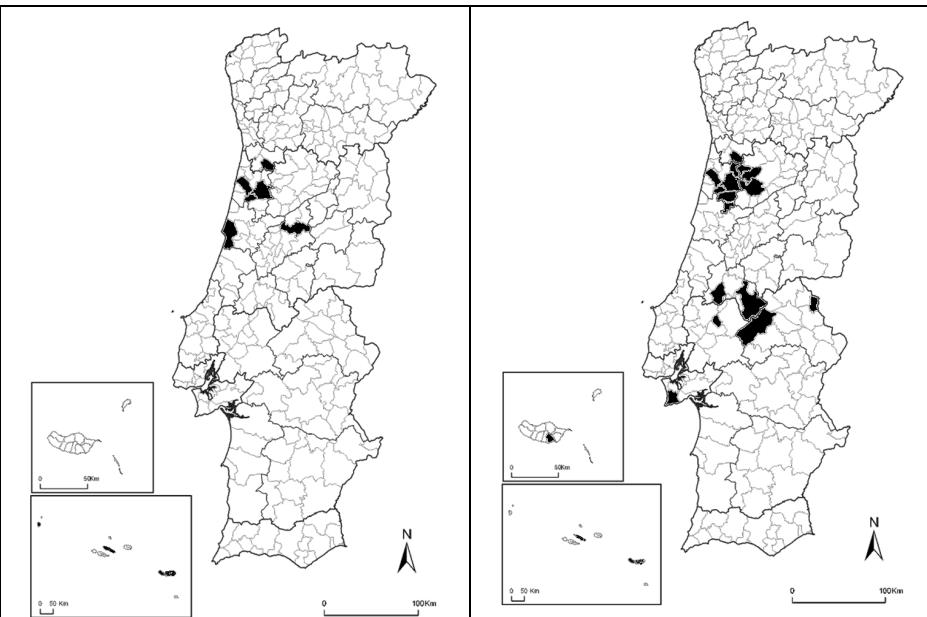


Figure 525. Distribution map of *Gomphonema affine*

Figure 526. Distribution map of *Gomphonema angustatum*

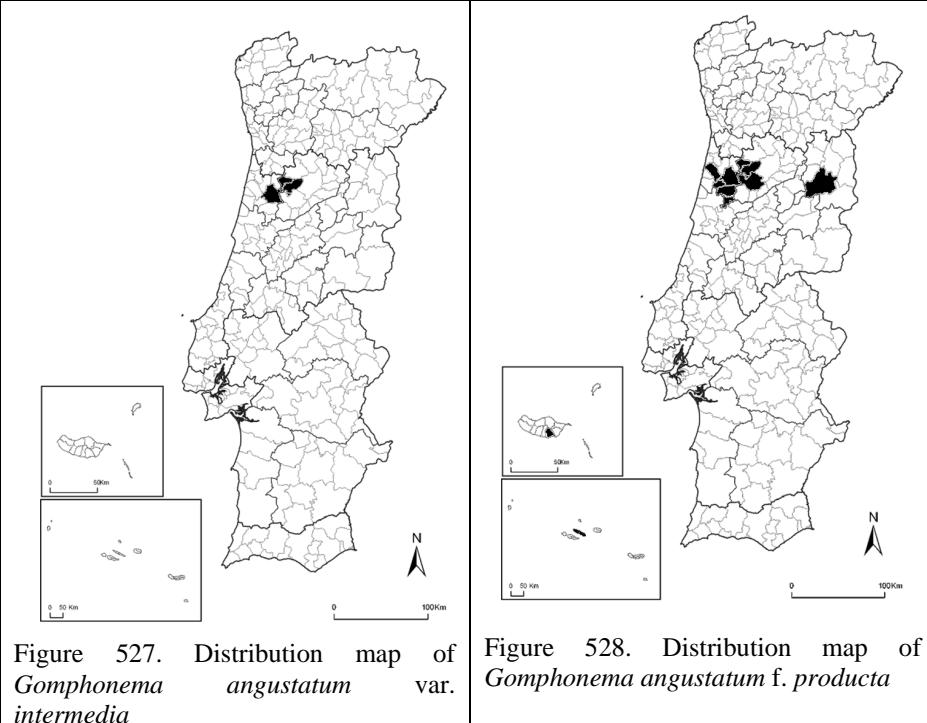
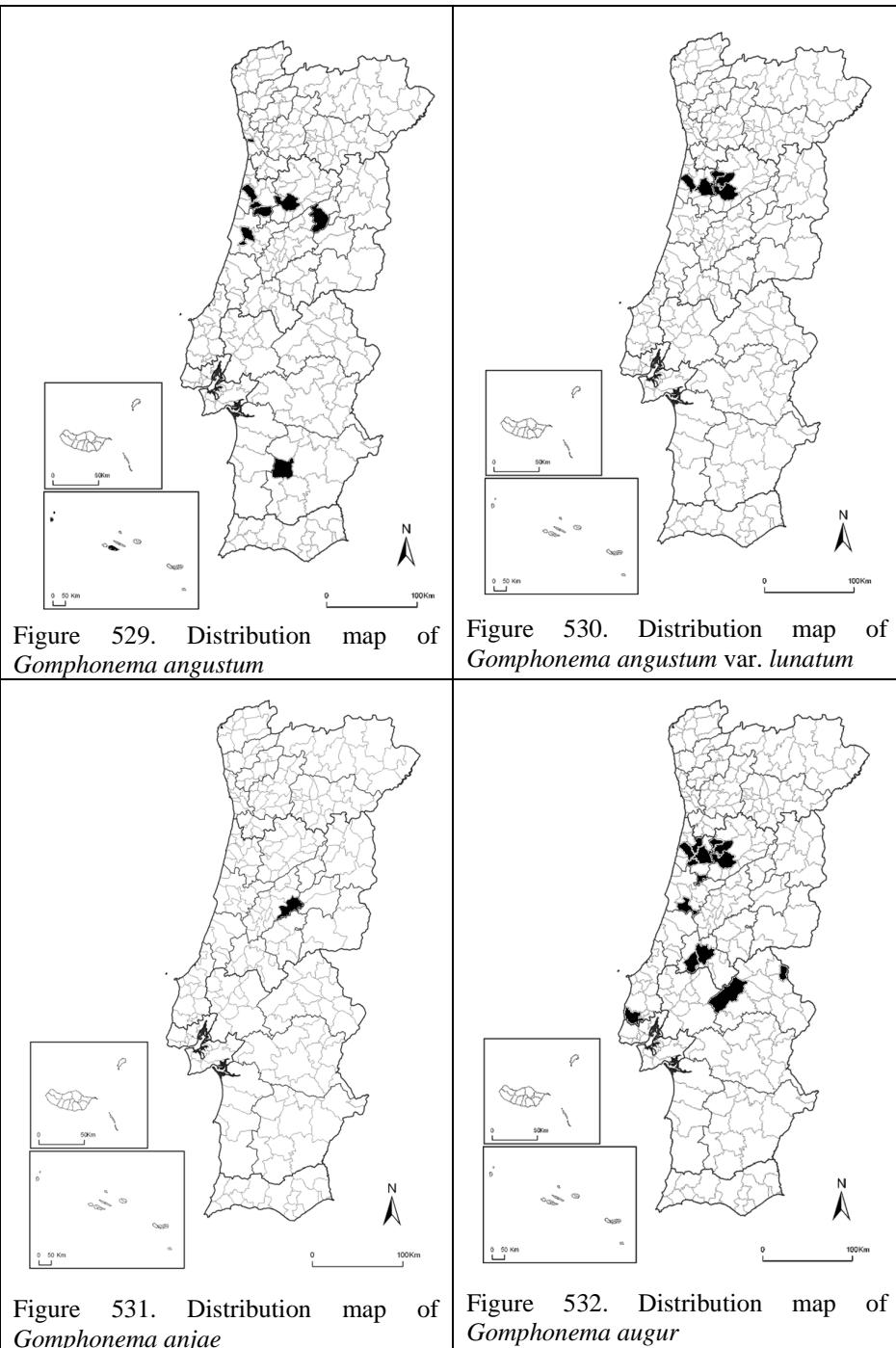
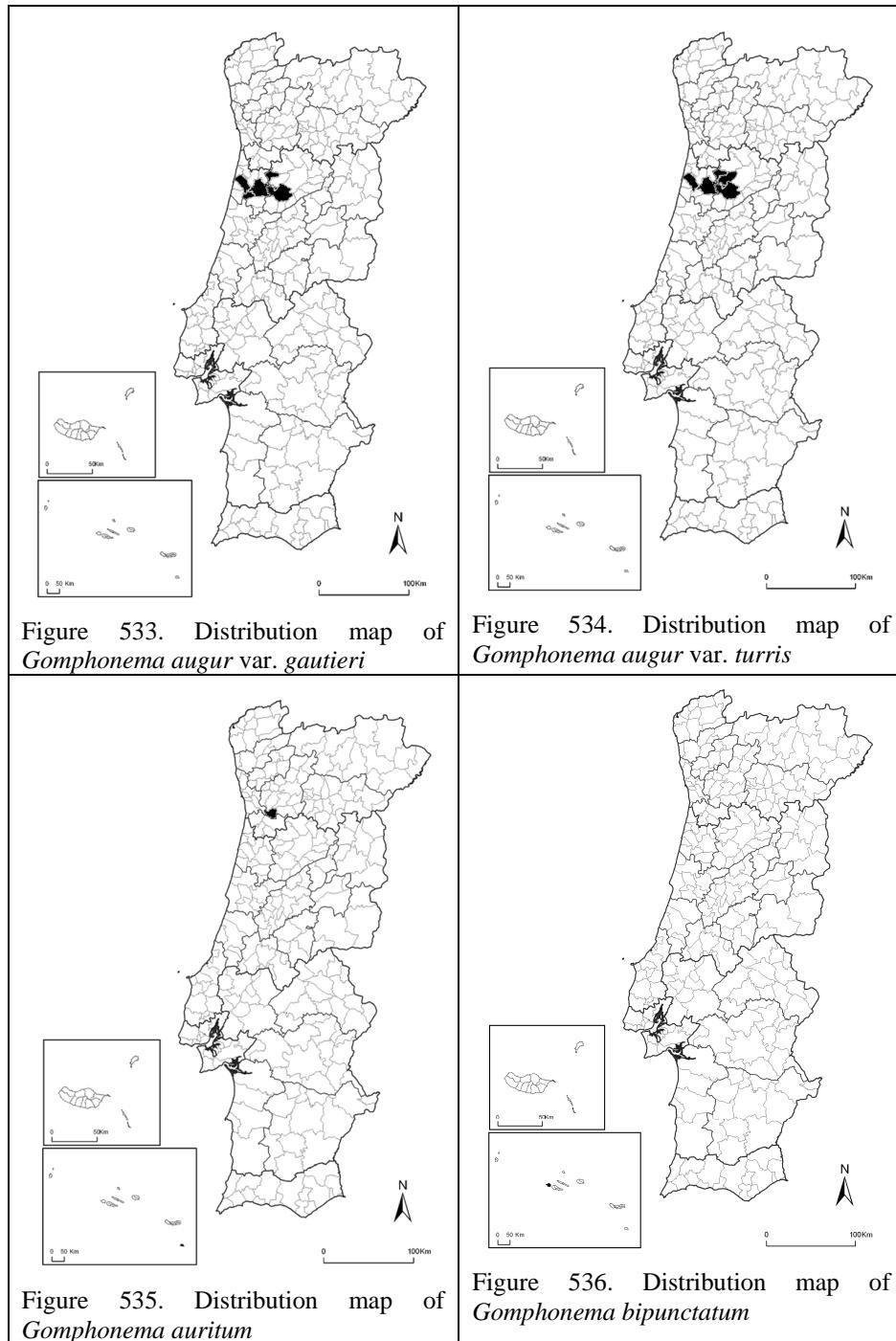
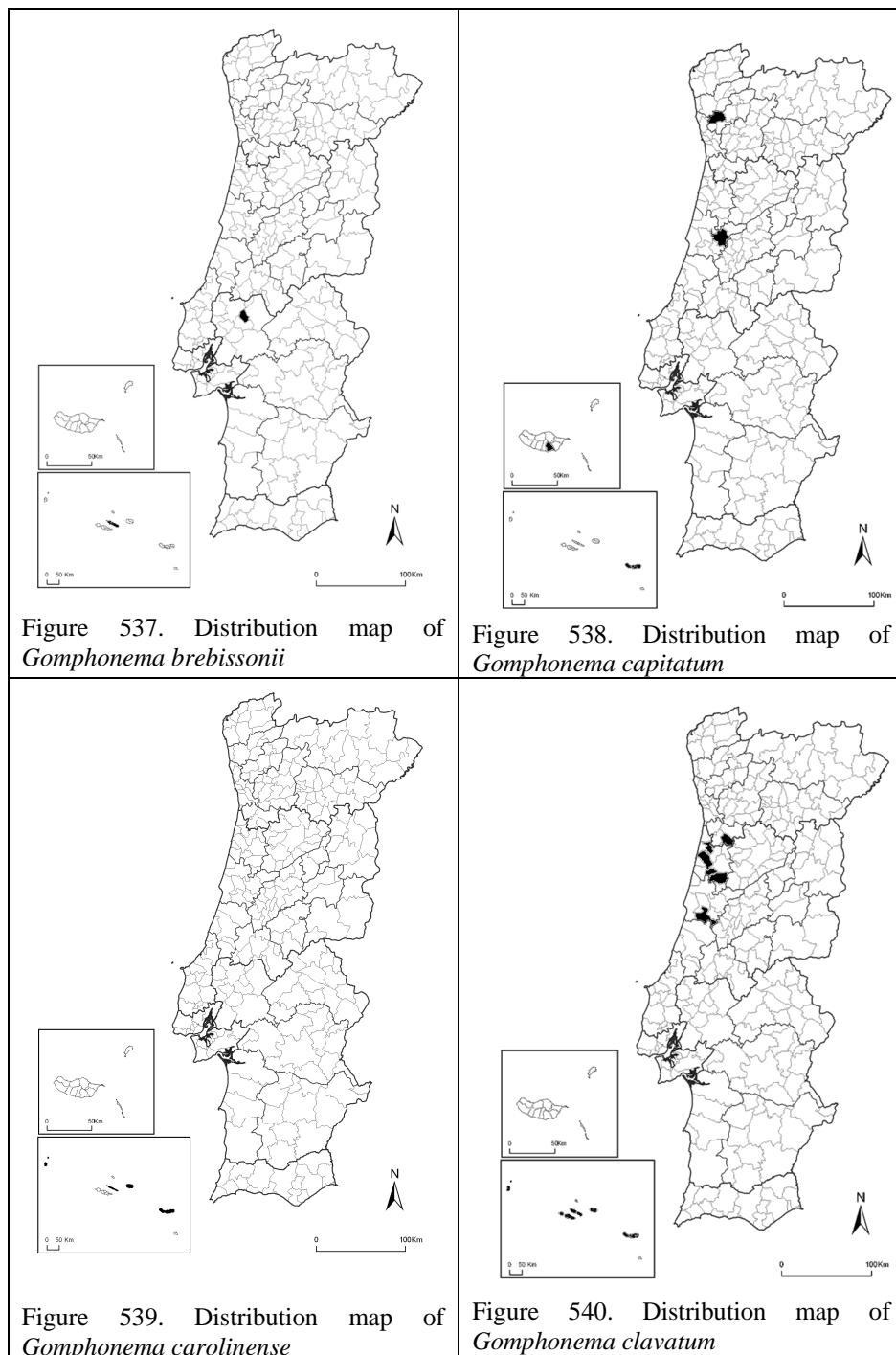


Figure 527. Distribution map of *Gomphonema angustatum* var. *intermedia*

Figure 528. Distribution map of *Gomphonema angustatum* f. *producta*







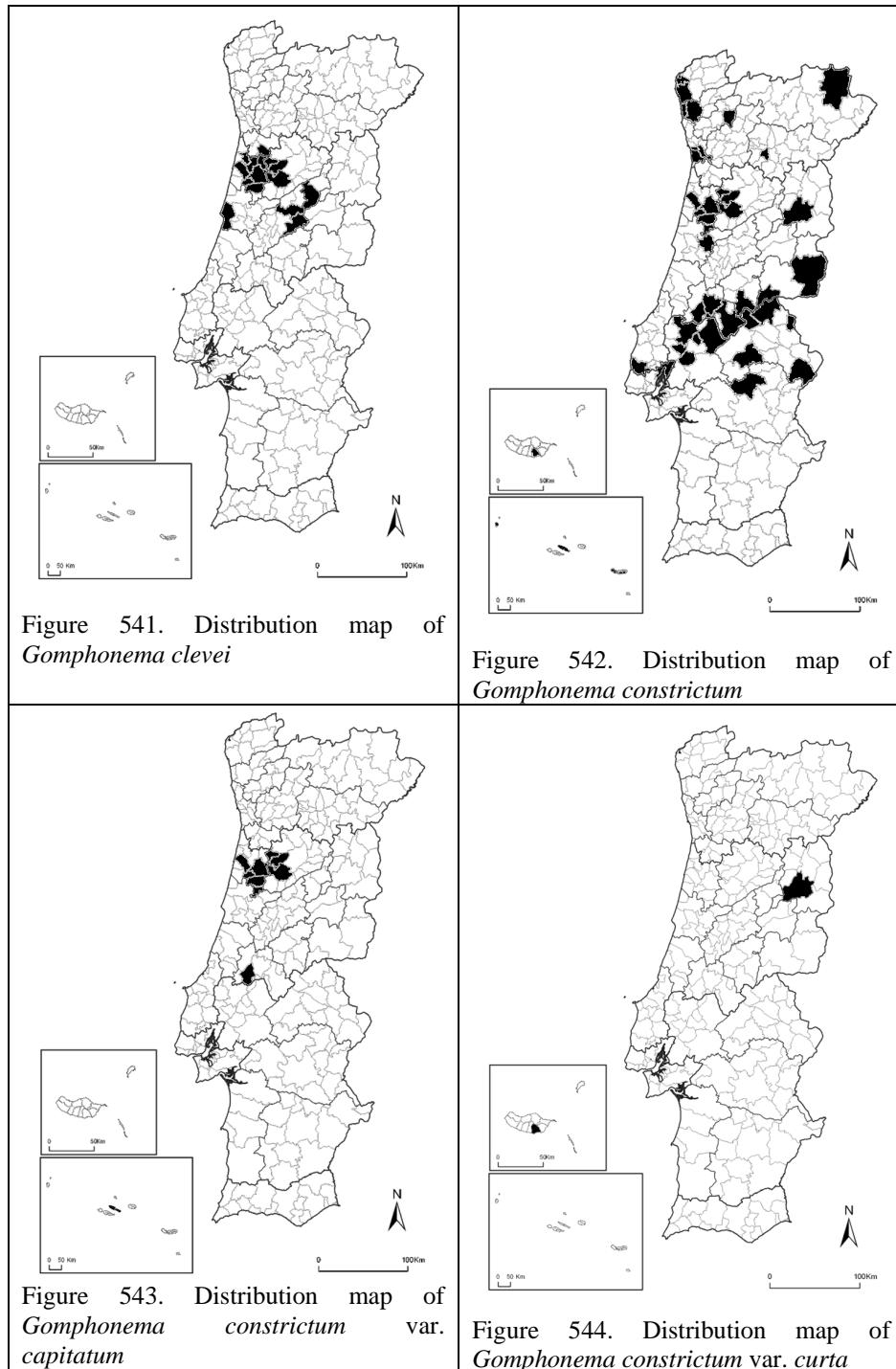


Figure 541. Distribution map of *Gomphonema clevei*

Figure 542. Distribution map of *Gomphonema constrictum*

Figure 543. Distribution map of *Gomphonema constrictum* var. *capitatum*

Figure 544. Distribution map of *Gomphonema constrictum* var. *curta*

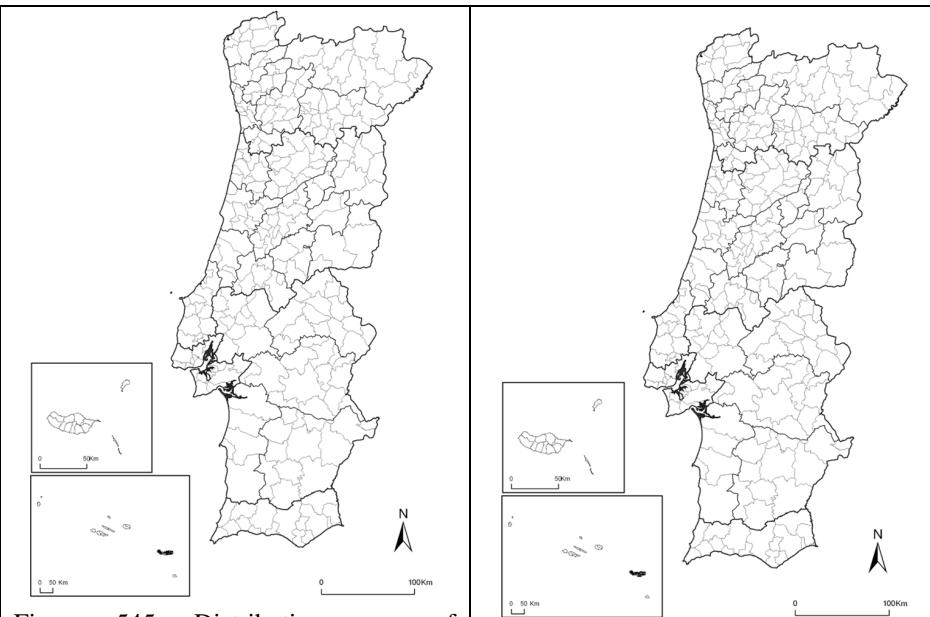


Figure 545. Distribution map of *Gomphonema constrictum* var. *subcapitatum*

Figure 546. Distribution map of *Gomphonema dichotomum*

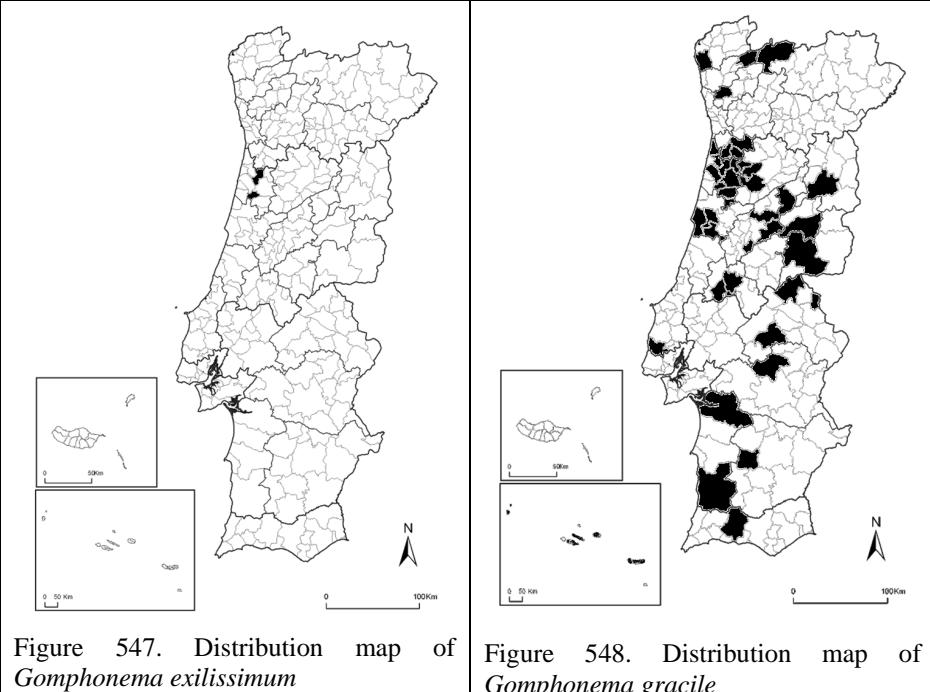


Figure 547. Distribution map of *Gomphonema exilissimum*

Figure 548. Distribution map of *Gomphonema gracile*

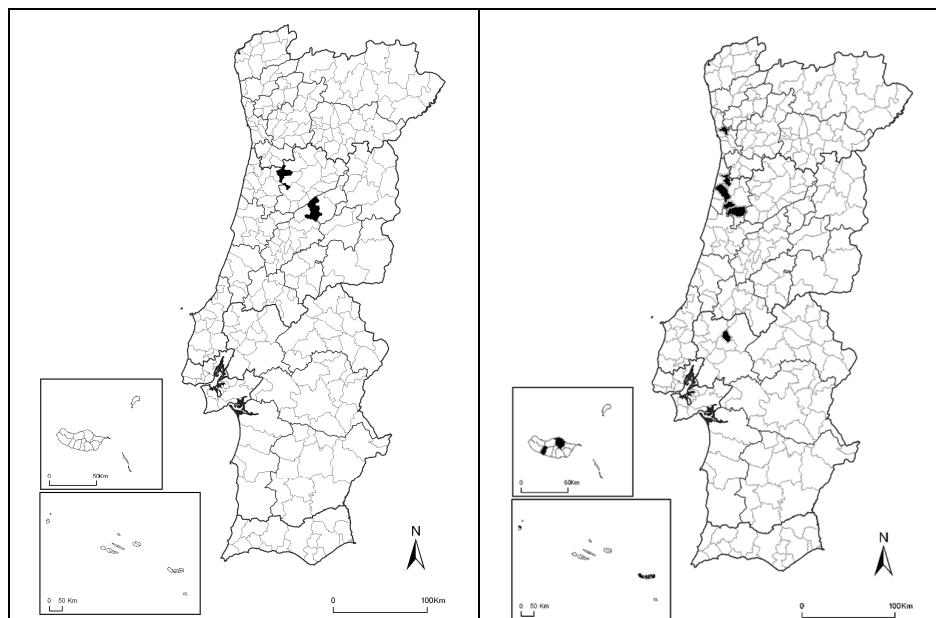


Figure 549. Distribution map of *Gomphonema ibericum*

Figure 550. Distribution map of *Gomphonema insigne*

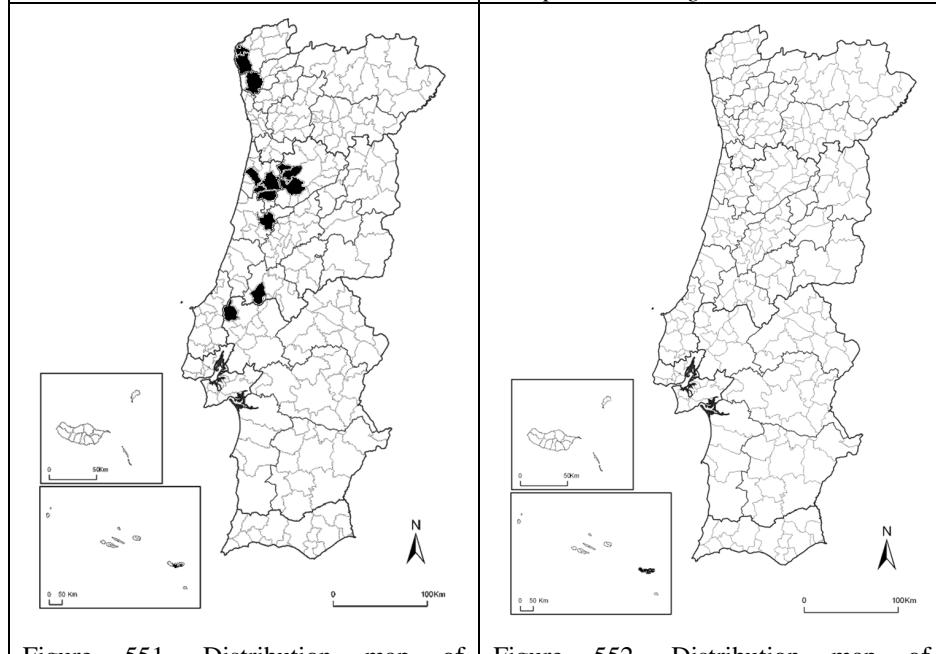
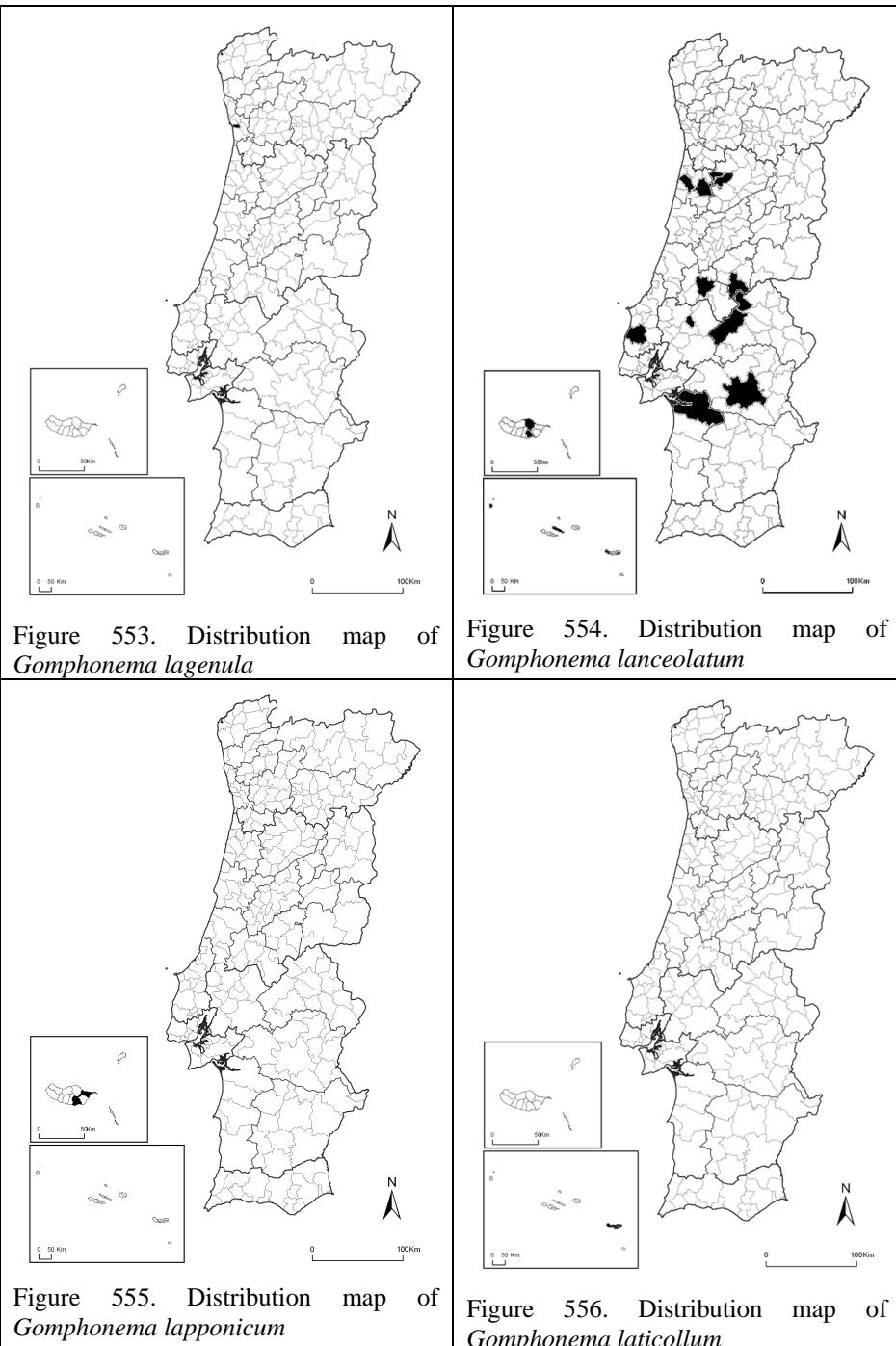
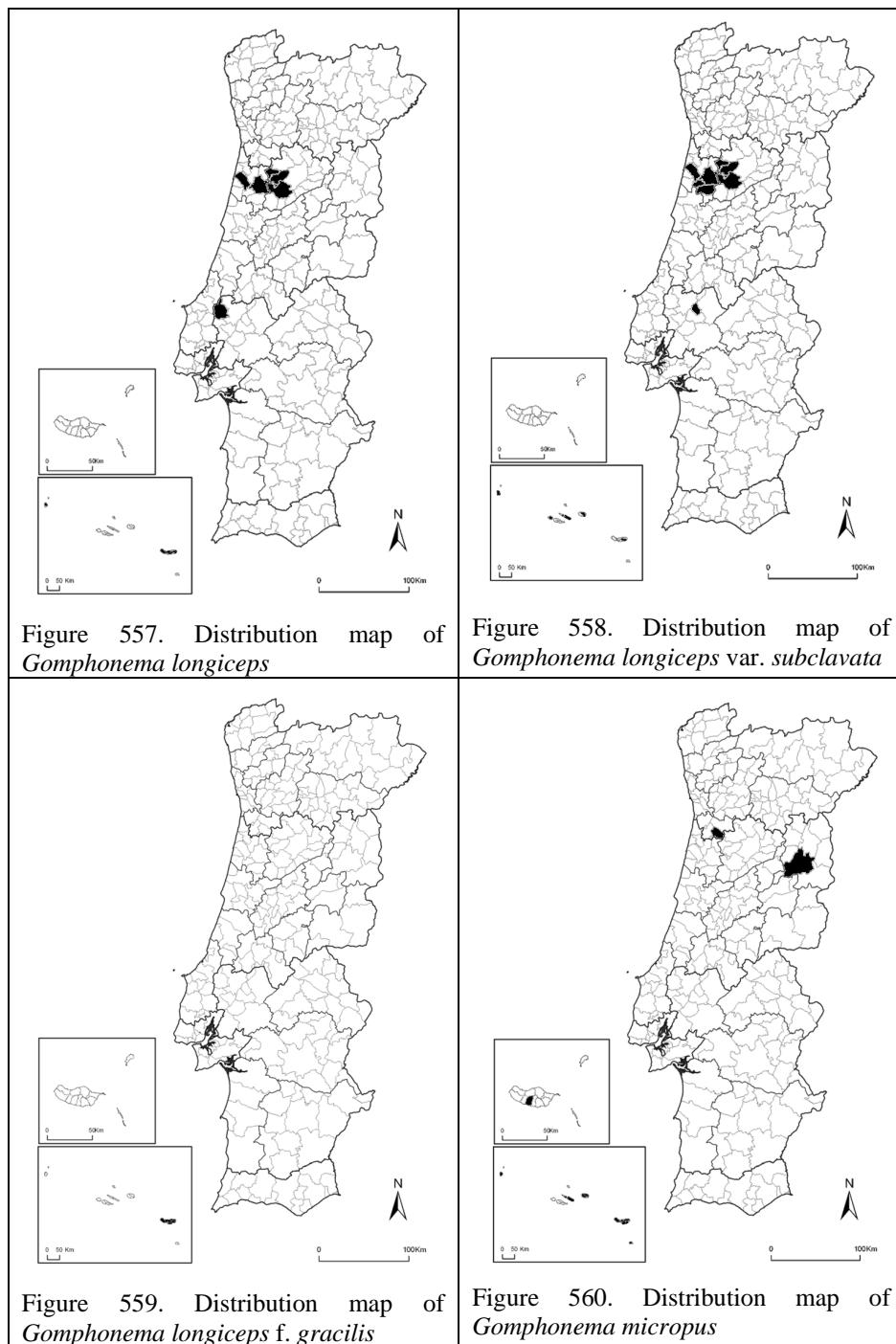
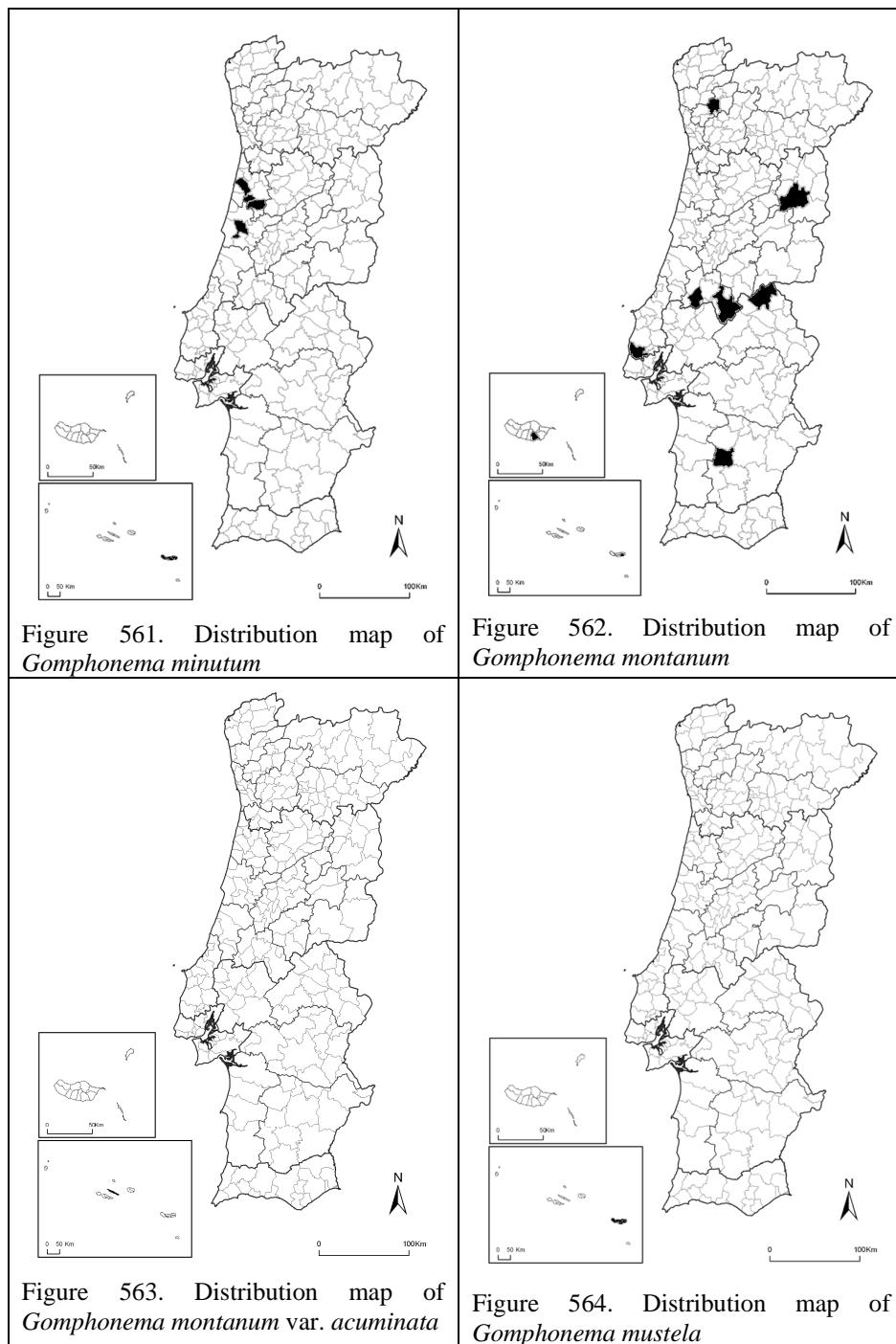


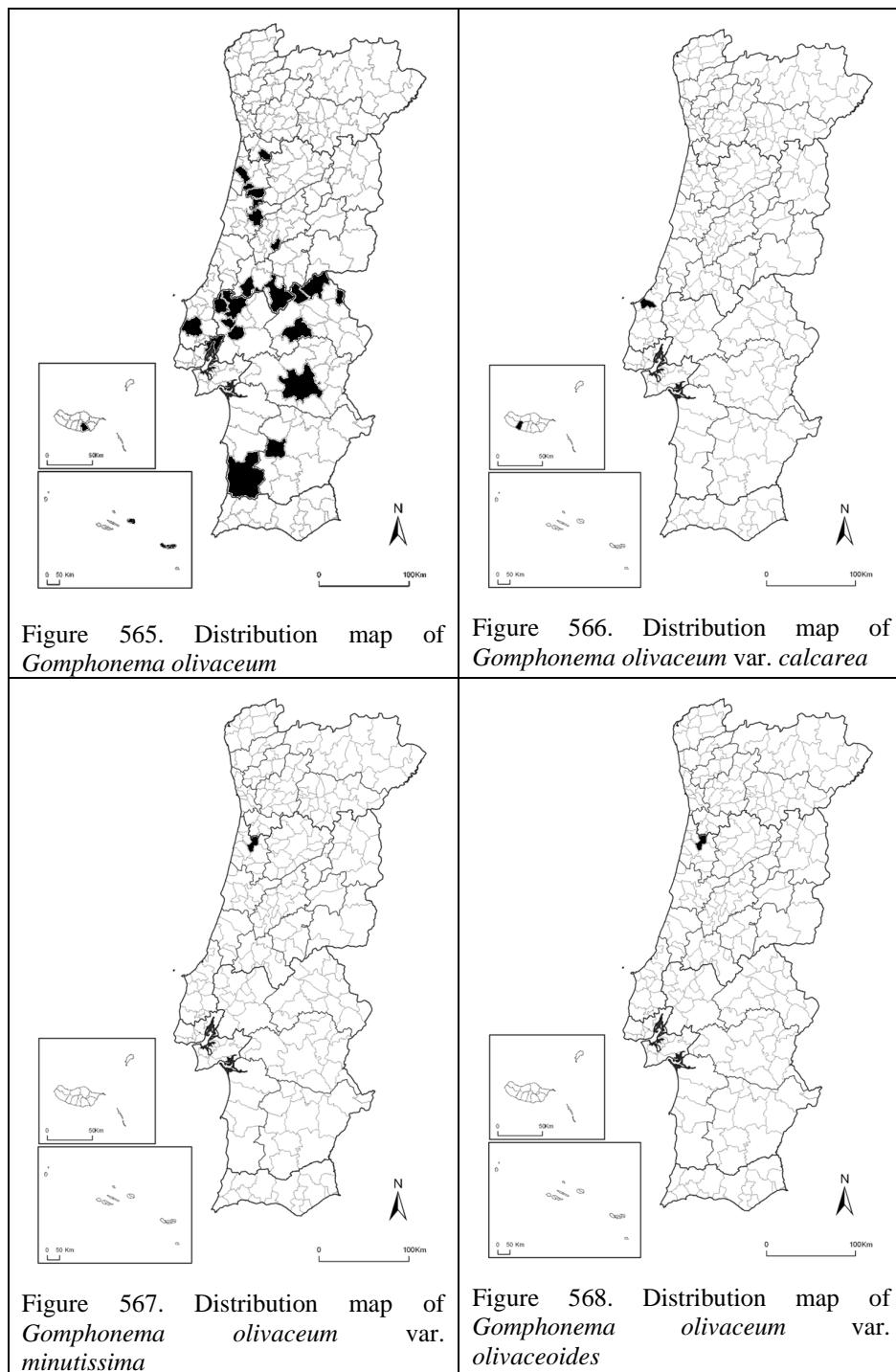
Figure 551. Distribution map of *Gomphonema intricatum*

Figure 552. Distribution map of *Gomphonema intricatum* var. *angustata*









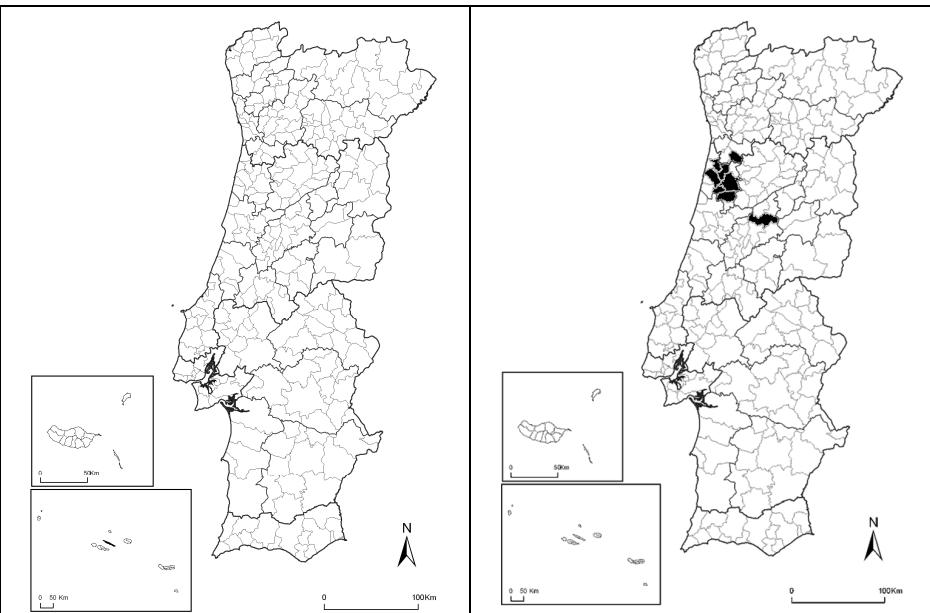


Figure 569. Distribution map of *Gomphonema pala*

Figure 570. Distribution map of *Gomphonema parvulus*

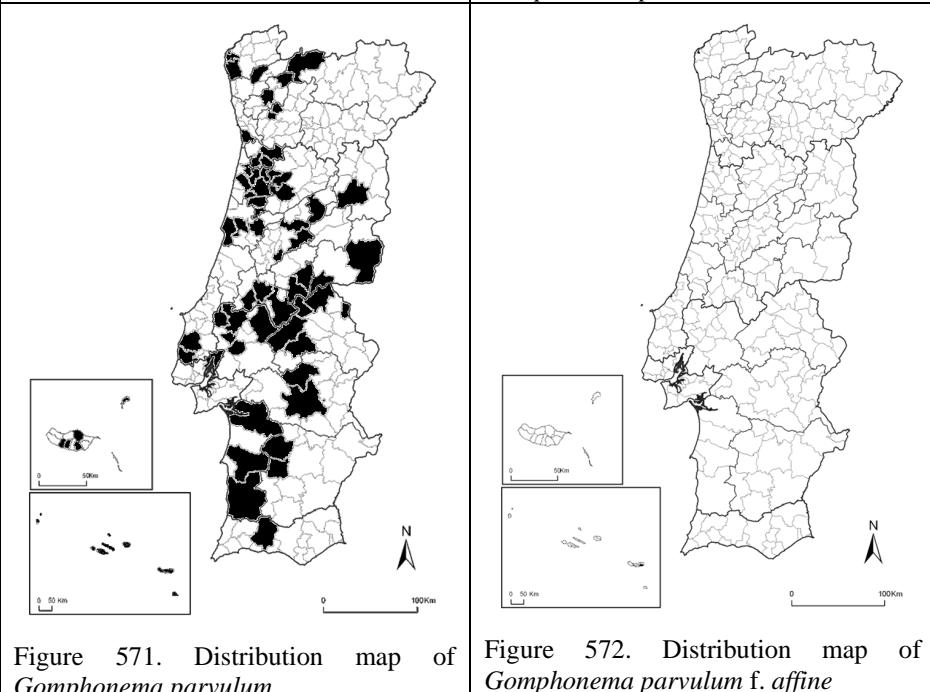
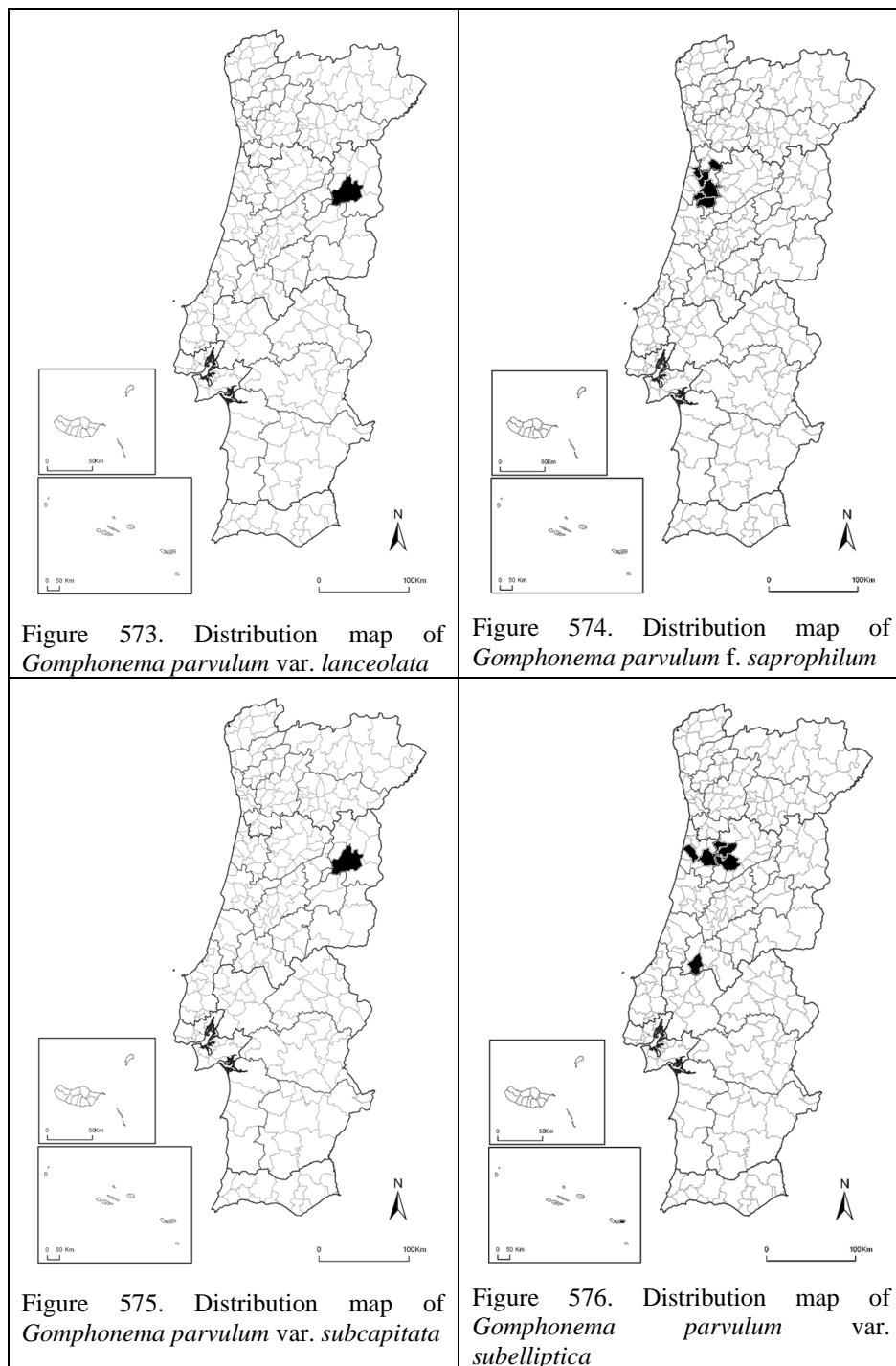
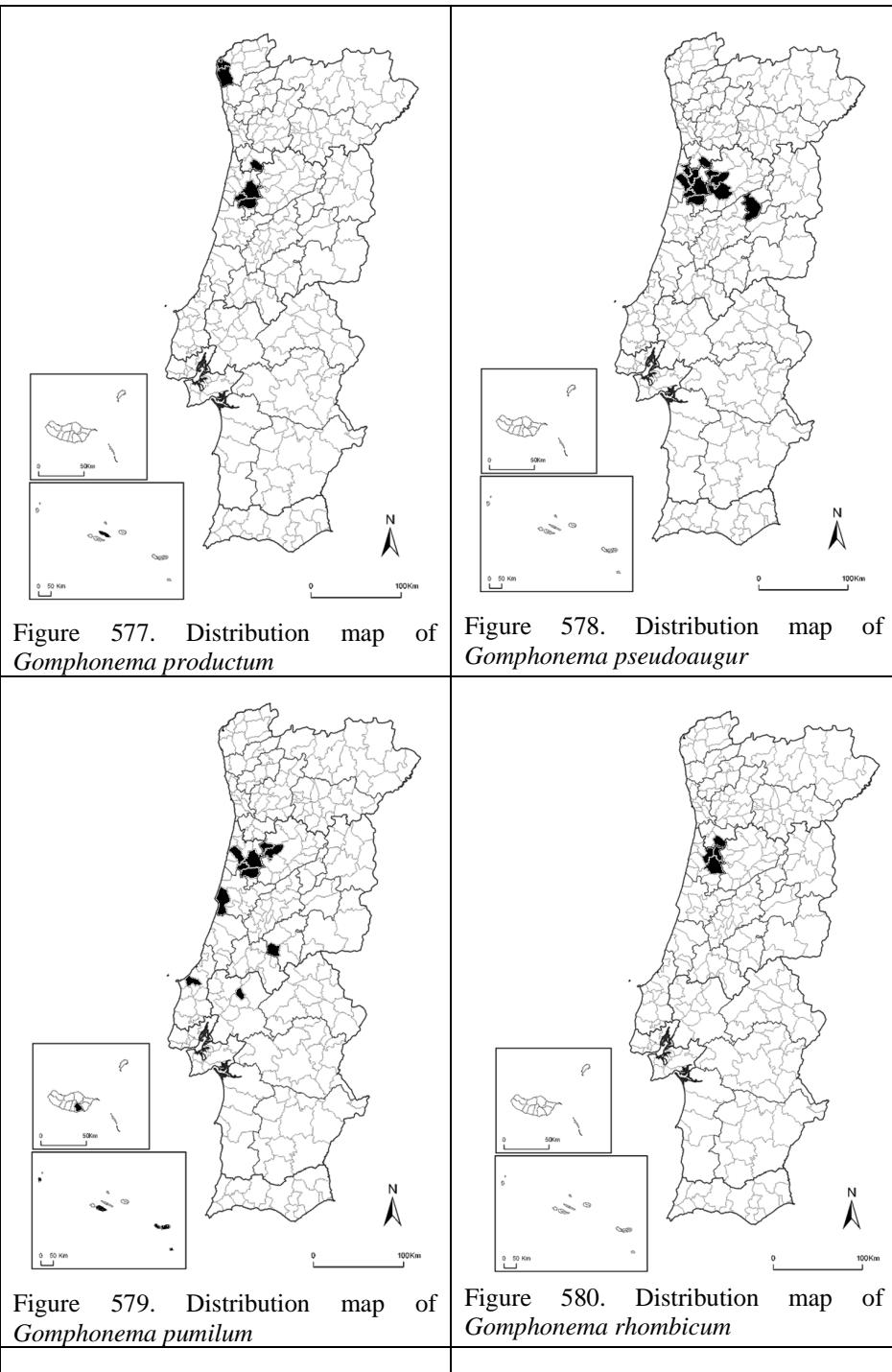


Figure 571. Distribution map of *Gomphonema parvulum*

Figure 572. Distribution map of *Gomphonema parvulum* f. *affine*





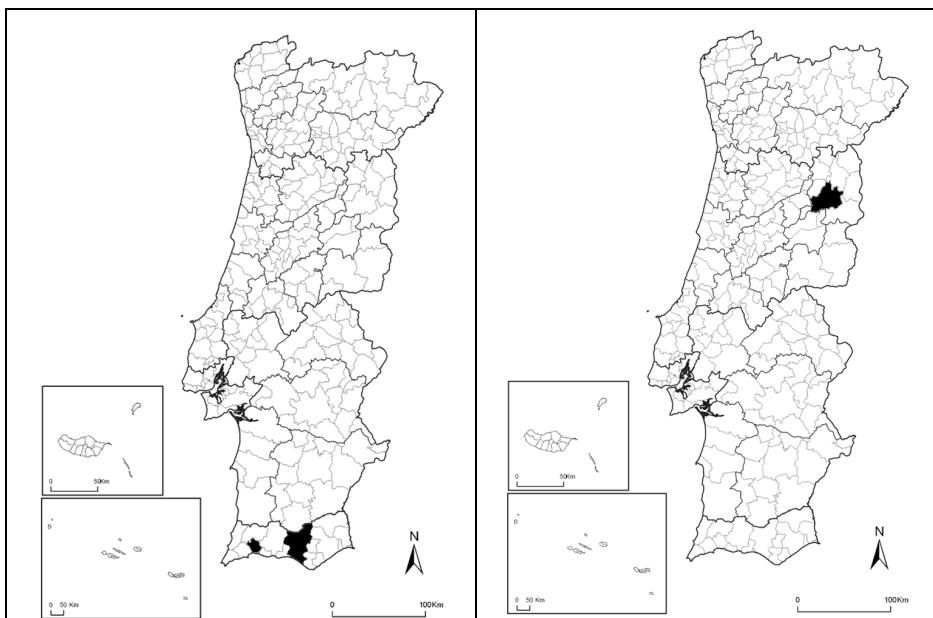


Figure 581. Distribution map of *Gomphonema rosenstockianum*

Figure 582. Distribution map of *Gomphonema sarcophagus*

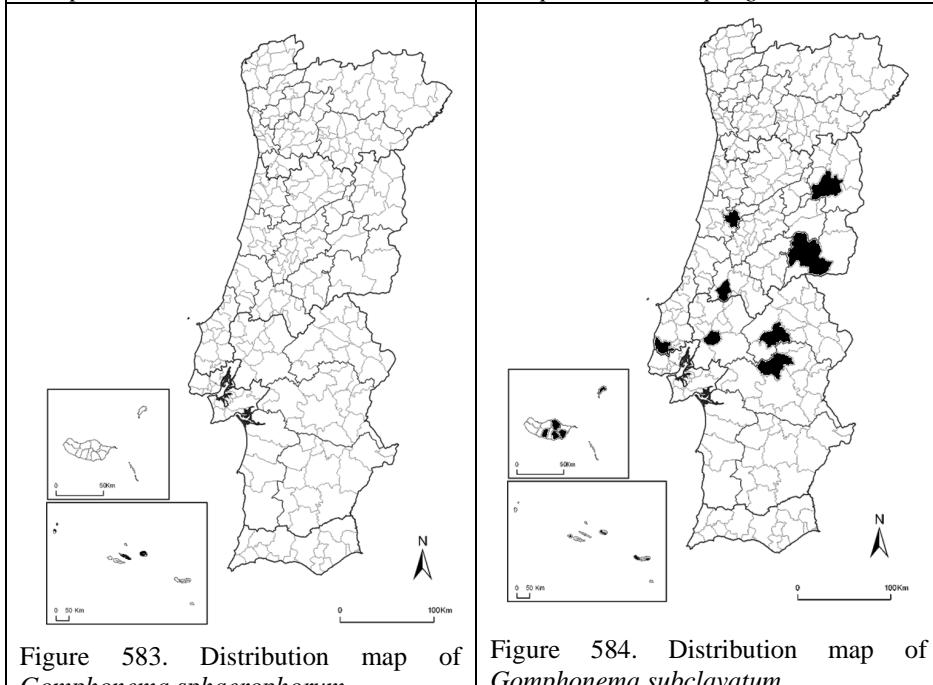
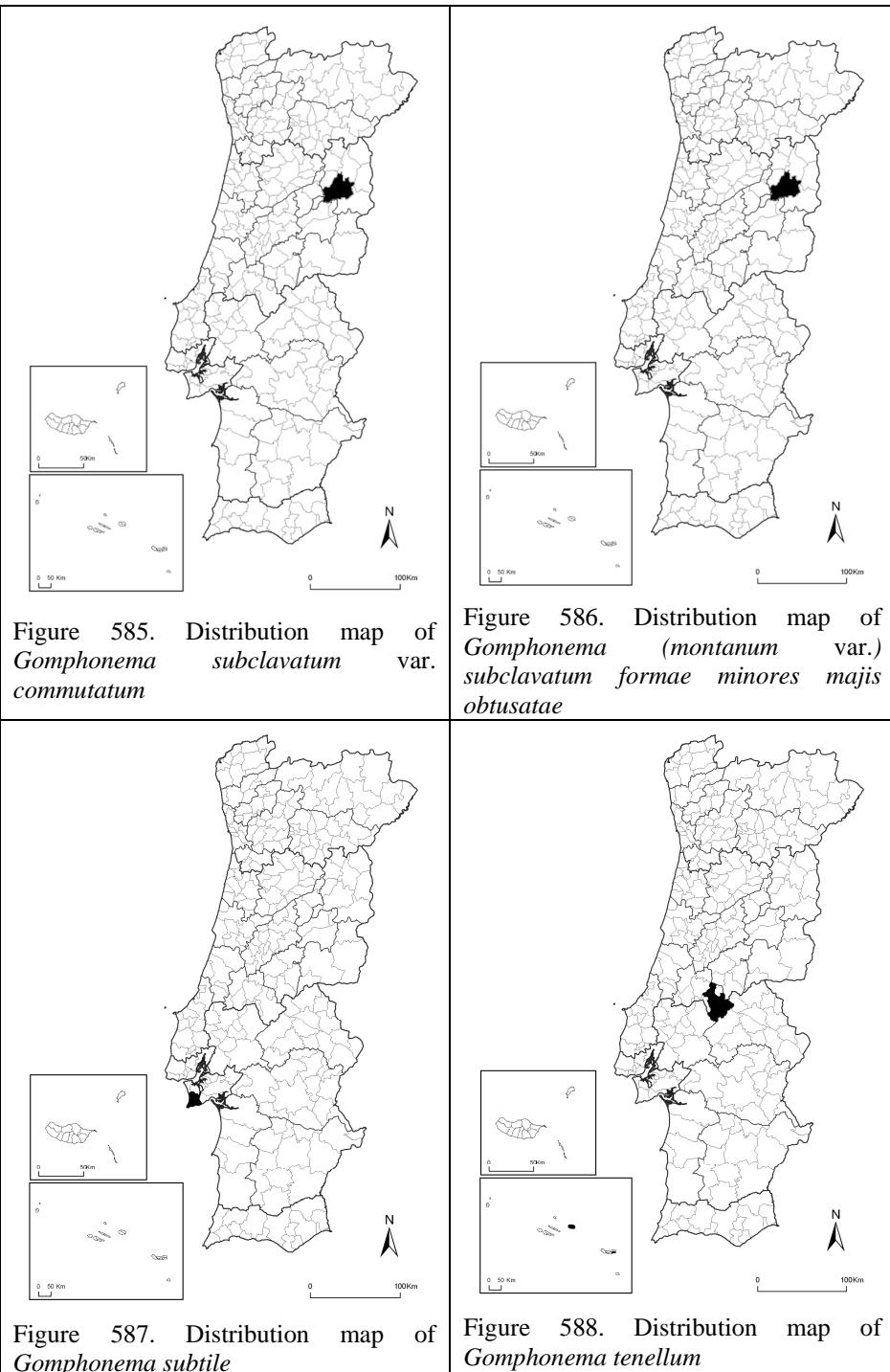
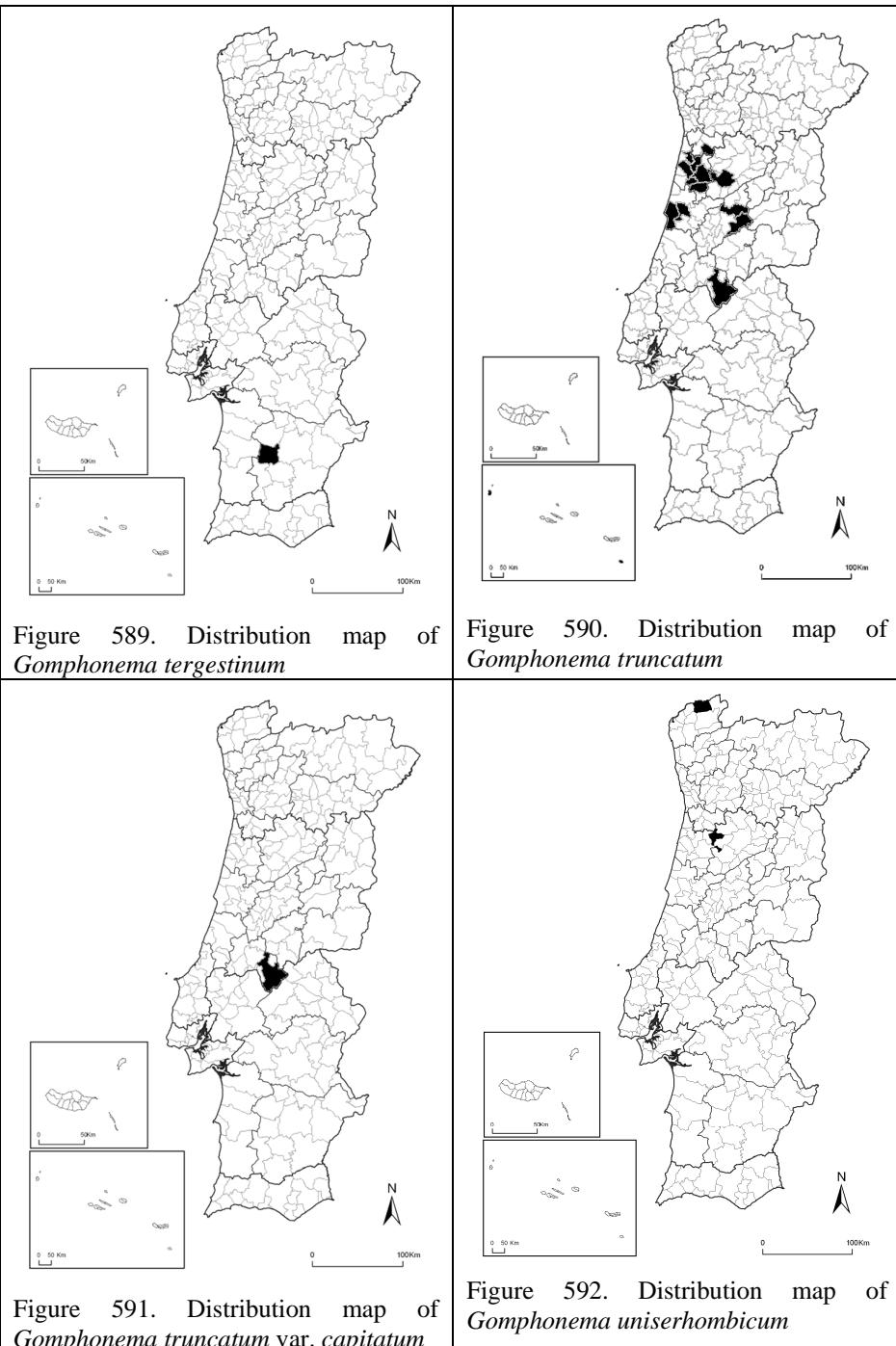


Figure 583. Distribution map of *Gomphonema sphaerophorum*

Figure 584. Distribution map of *Gomphonema subclavatum*





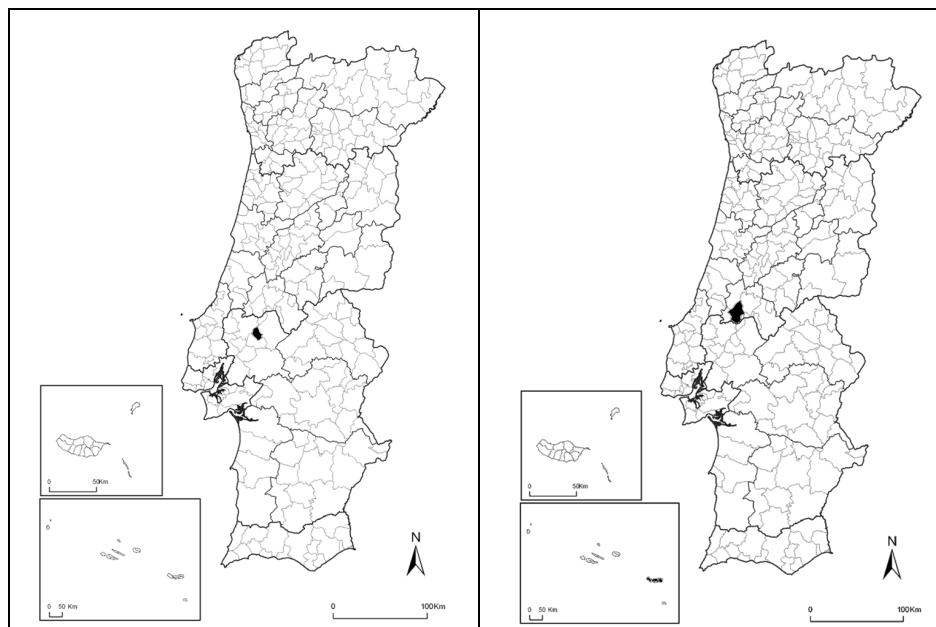


Figure 593. Distribution map of *Gomphonema ventricosum*

Figure 594. Distribution map of *Gomphonema vibrio*

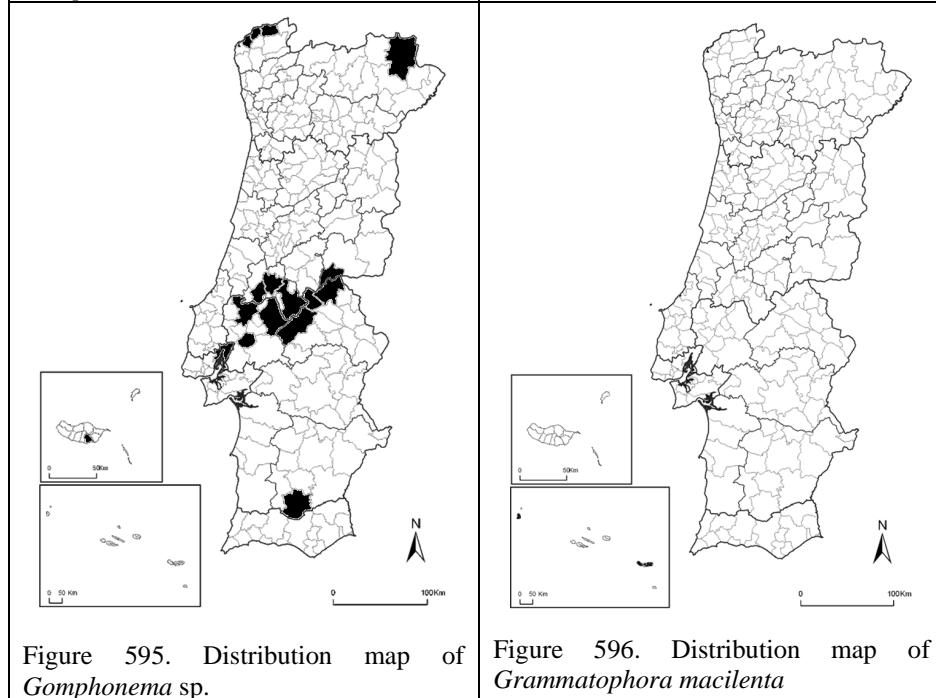


Figure 595. Distribution map of *Gomphonema* sp.

Figure 596. Distribution map of *Grammatophora macilenta*

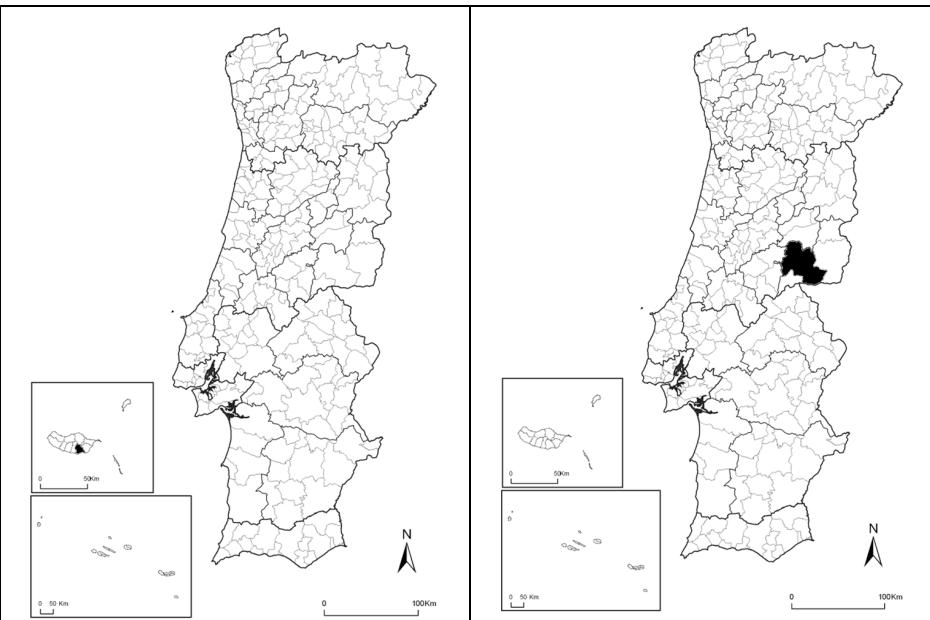


Figure 597. Distribution map of *Grammatophora serpentina*

Figure 598. Distribution map of *Grammonema striatula*

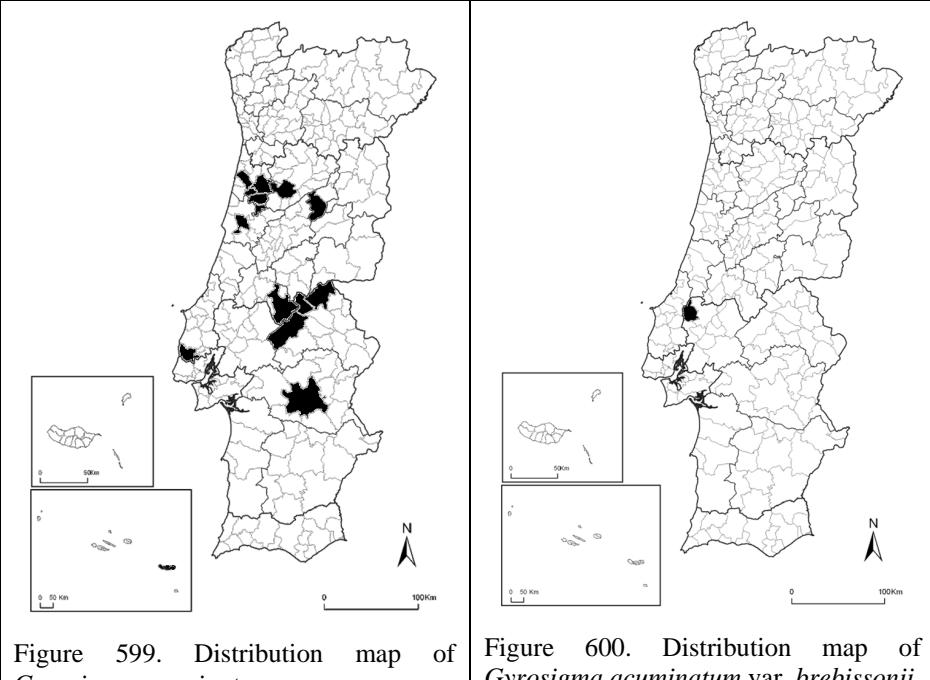
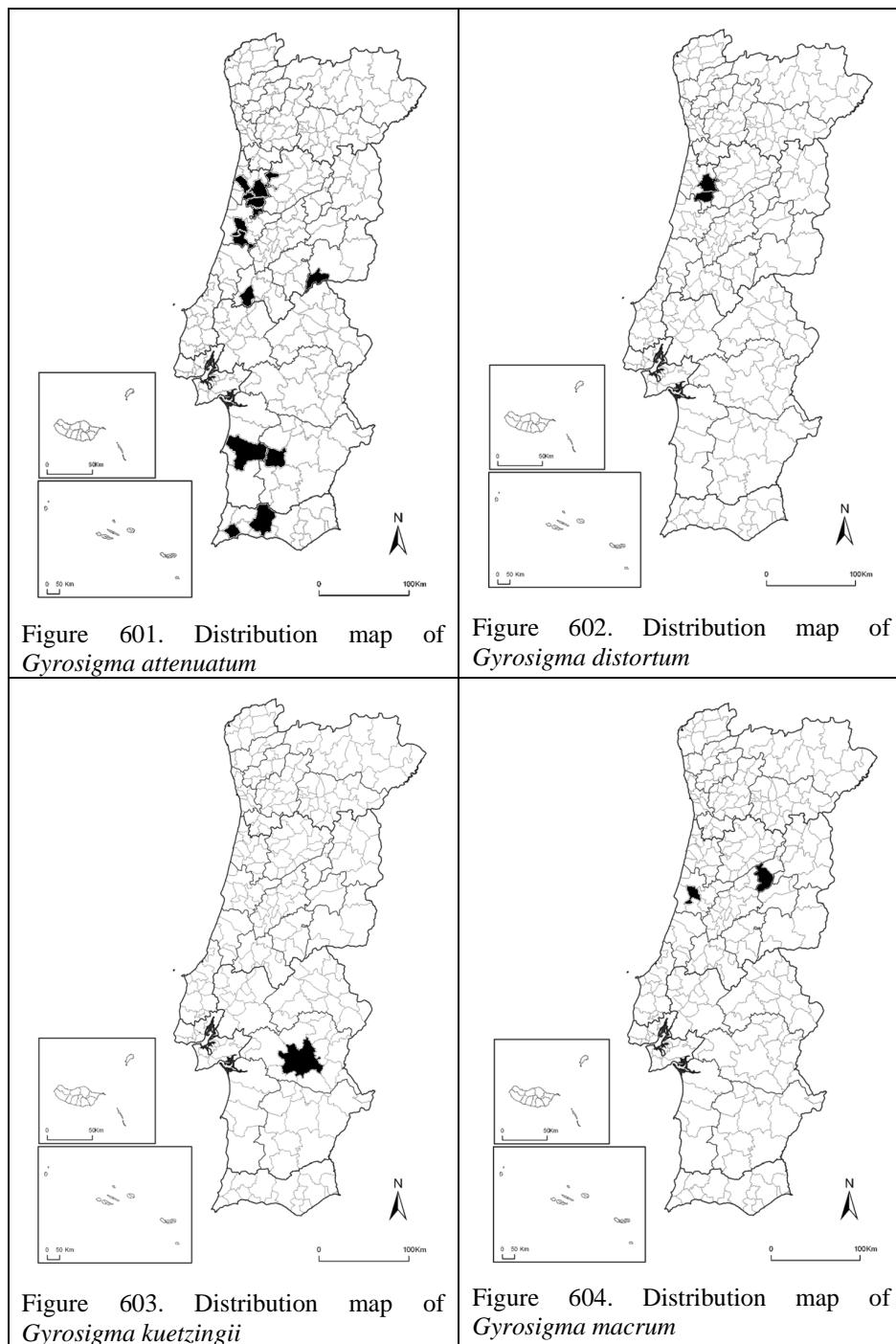


Figure 599. Distribution map of *Gyrosigma acuminatum*

Figure 600. Distribution map of *Gyrosigma acuminatum* var. *brebissonii*



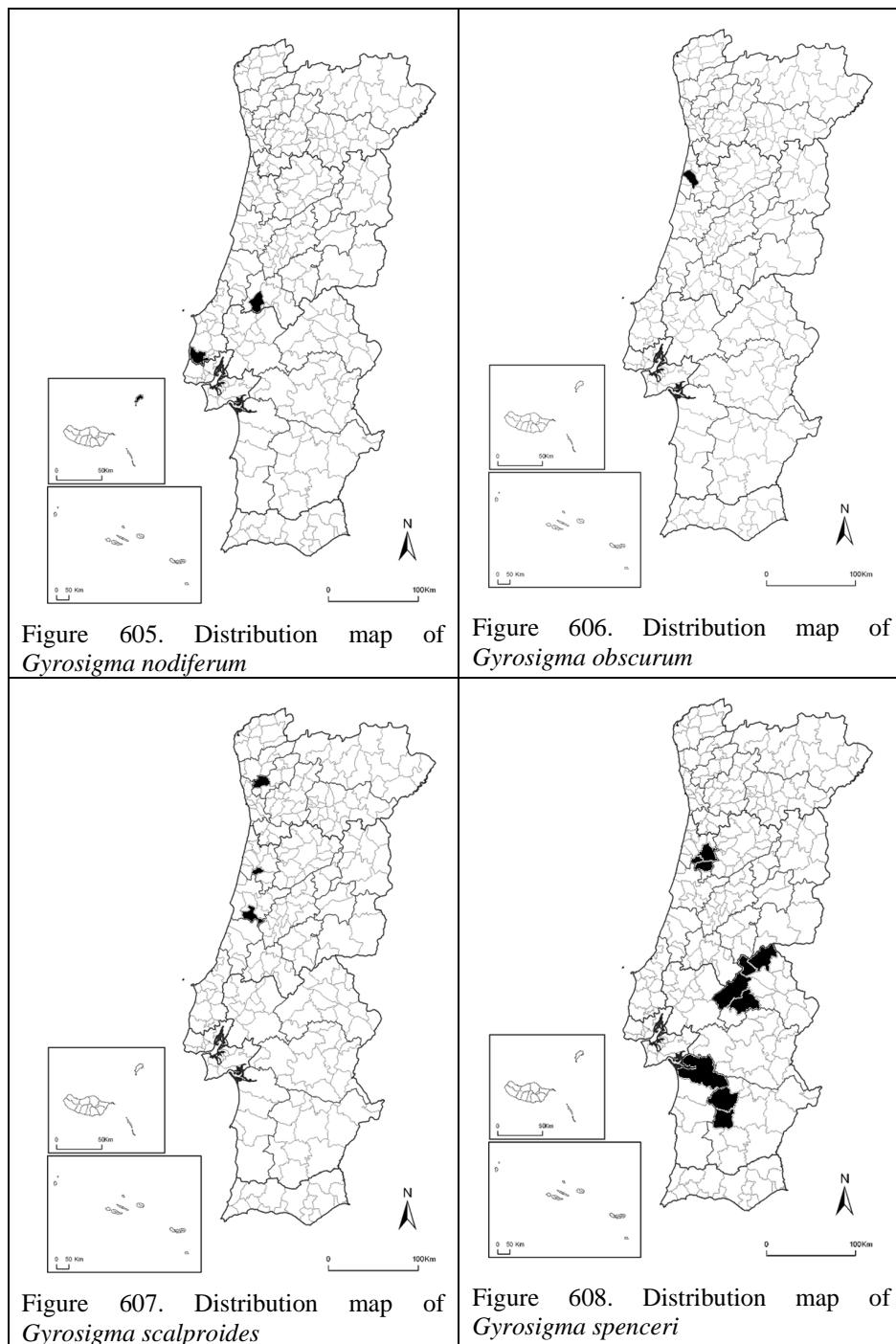
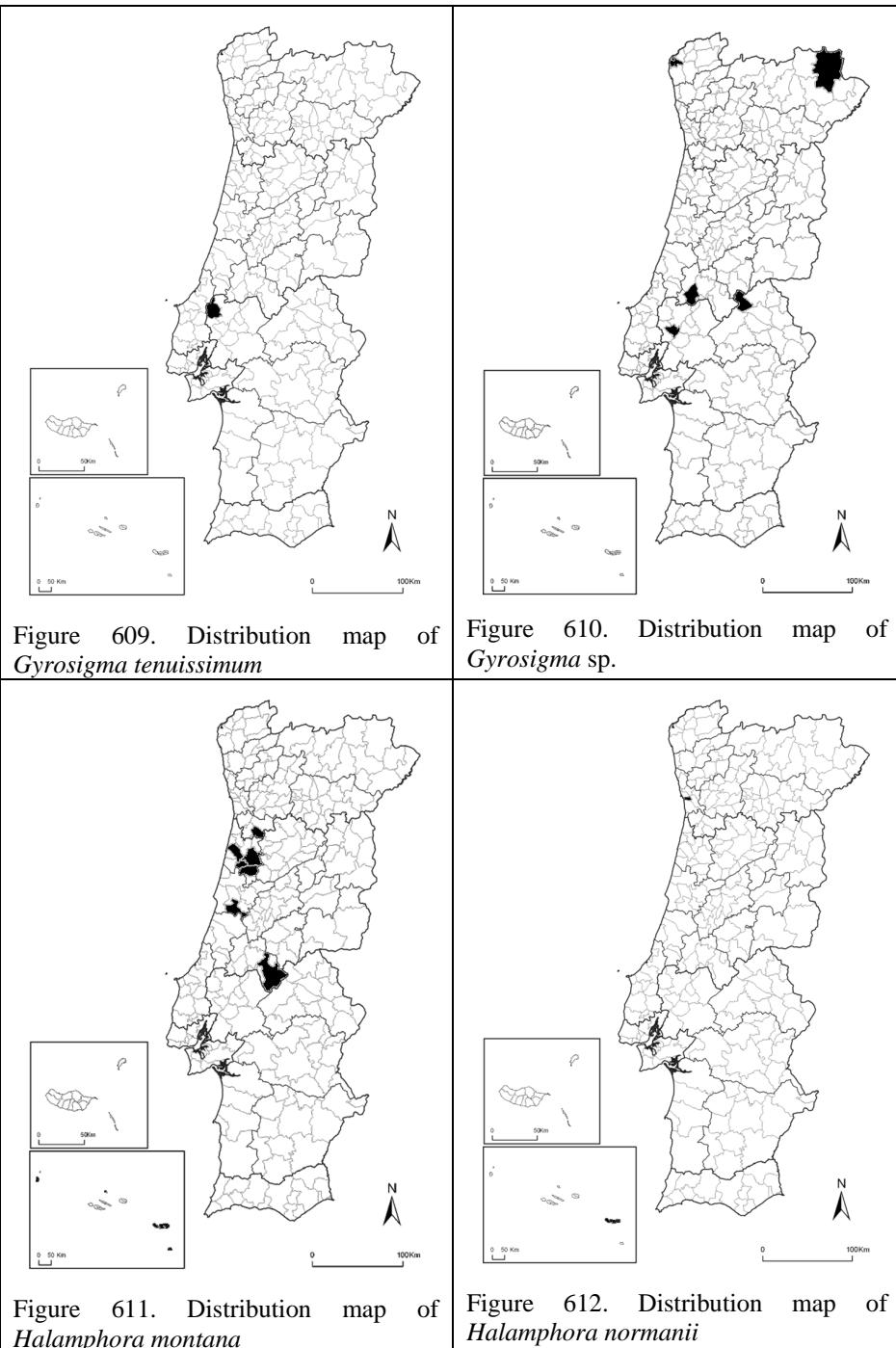


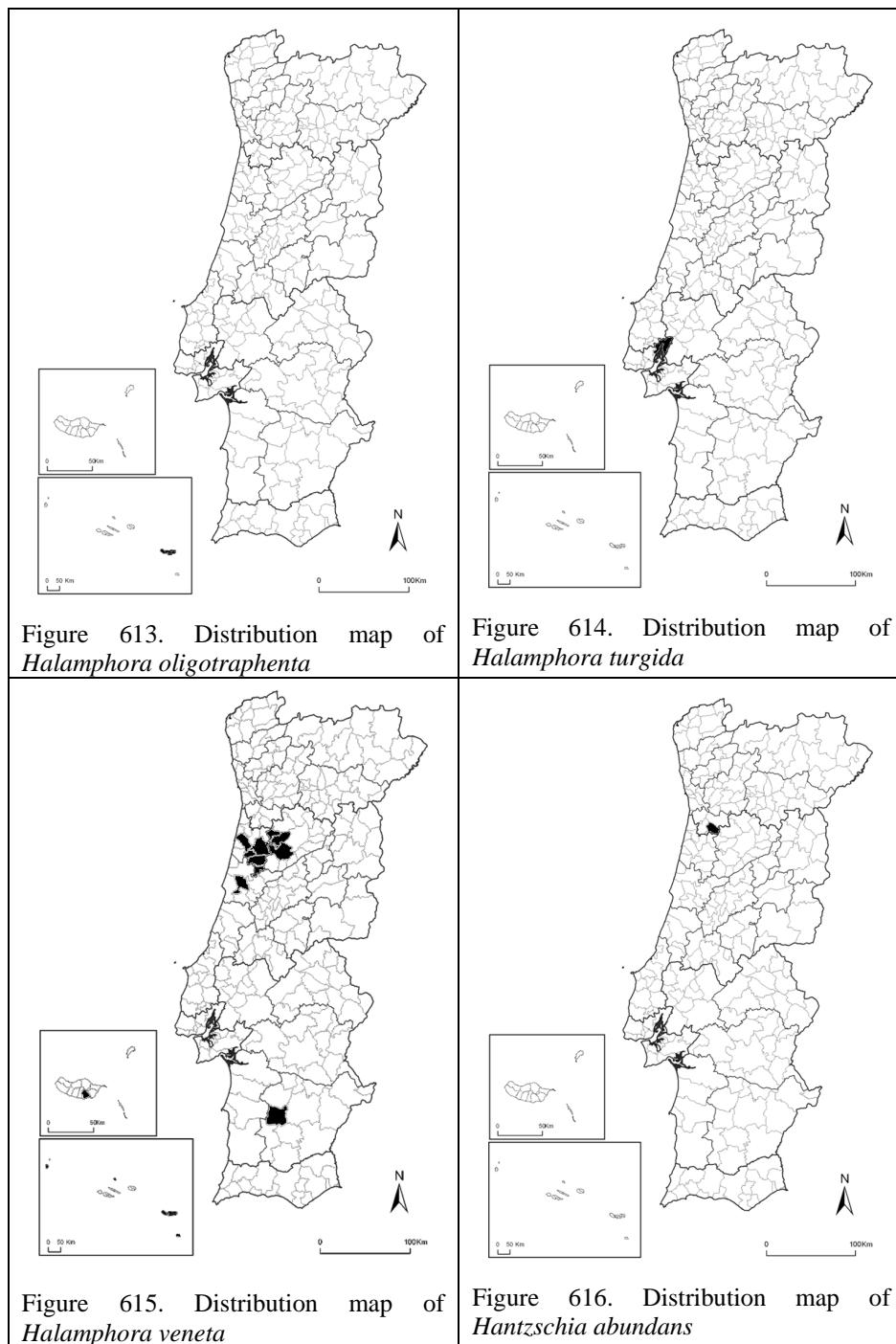
Figure 605. Distribution map of *Gyrosigma nodiferum*

Figure 606. Distribution map of *Gyrosigma obscurum*

Figure 607. Distribution map of *Gyrosigma scalproides*

Figure 608. Distribution map of *Gyrosigma spenceri*





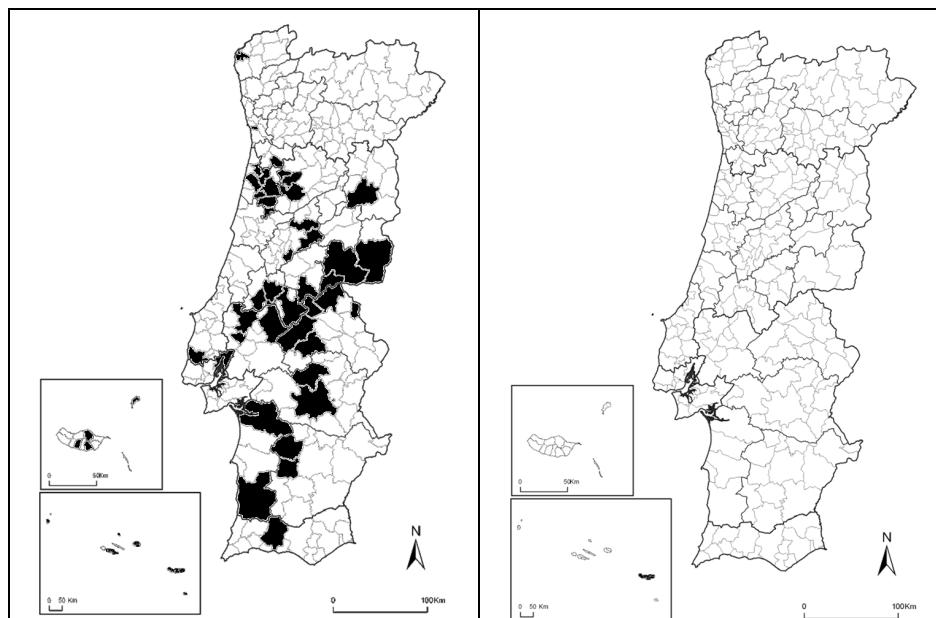


Figure 617. Distribution map of *Hantzschia amphioxys*

Figure 618. Distribution map of *Hantzschia amphioxys* f. *capitata*

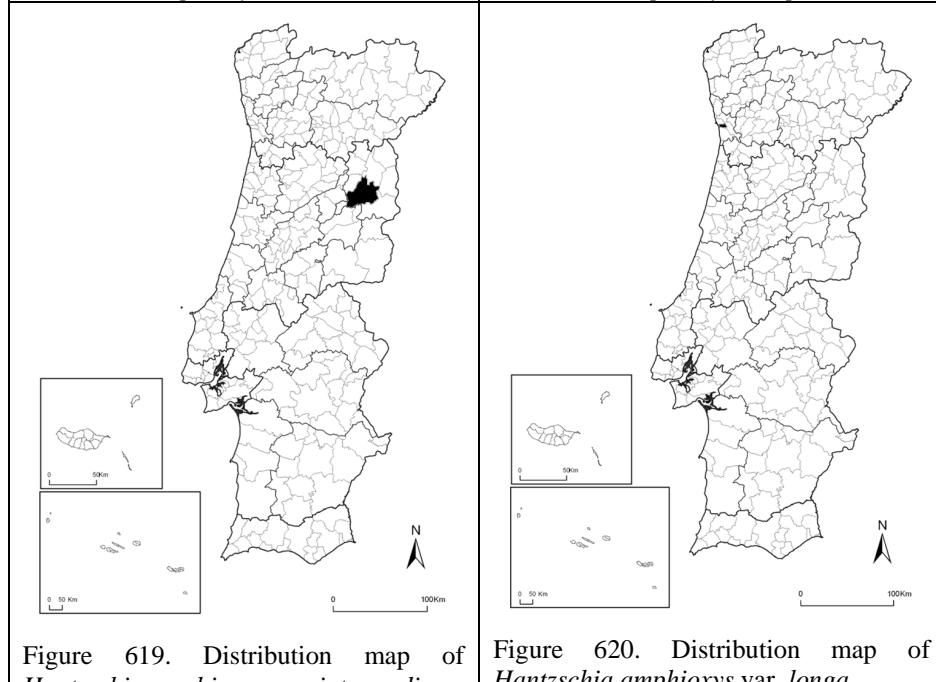
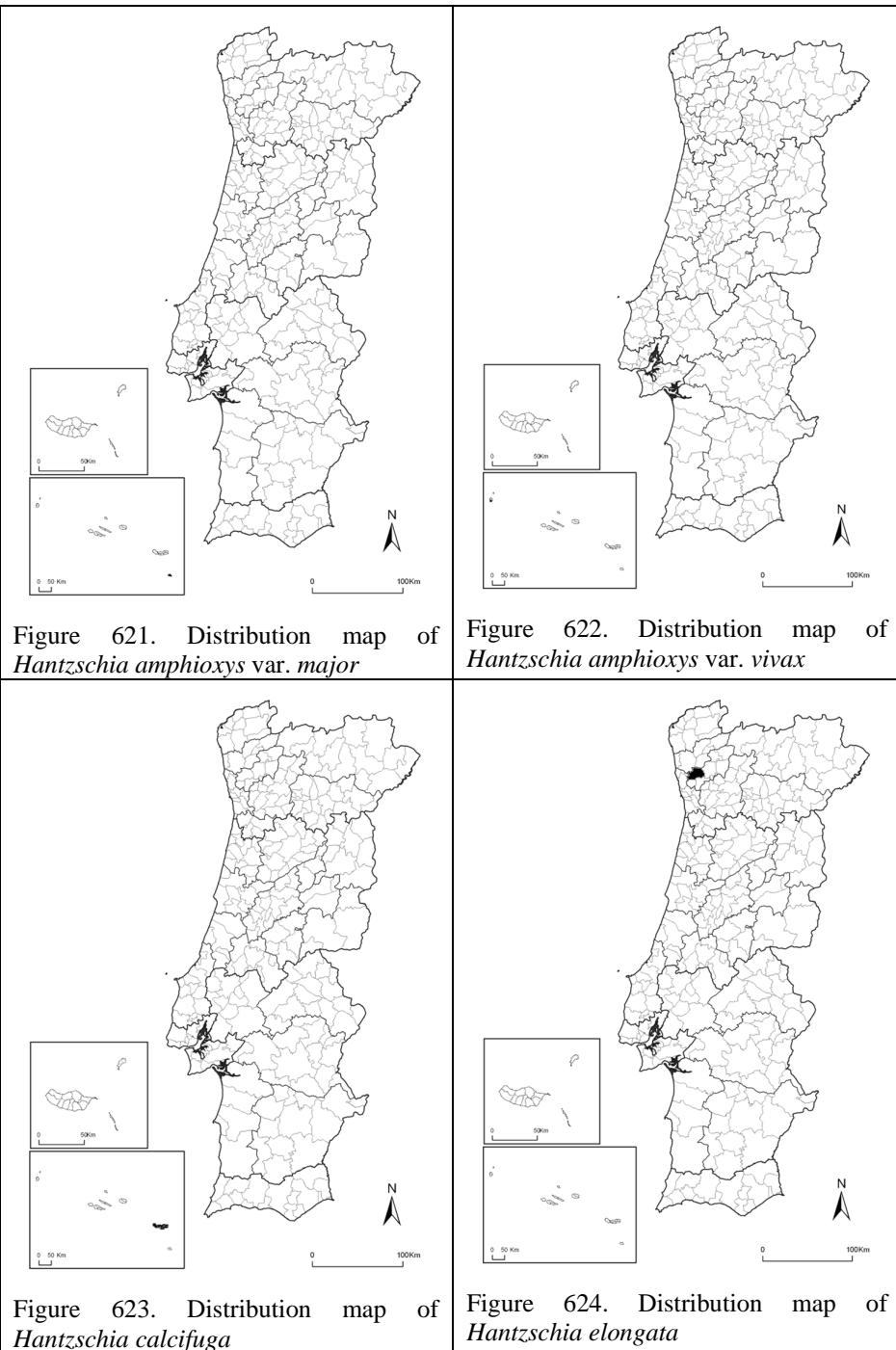
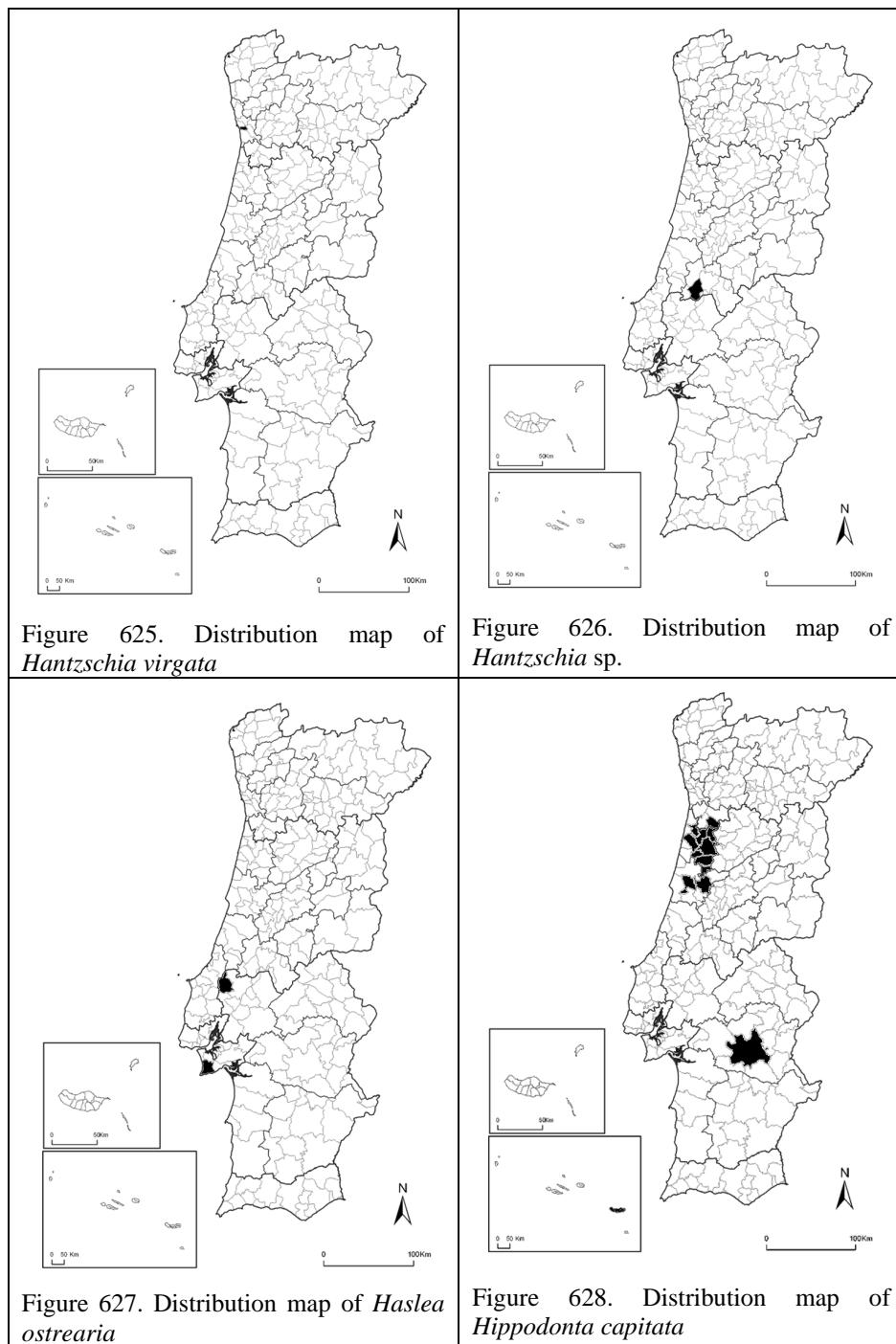


Figure 619. Distribution map of *Hantzschia amphioxys* var. *intermedia*

Figure 620. Distribution map of *Hantzschia amphioxys* var. *longa*





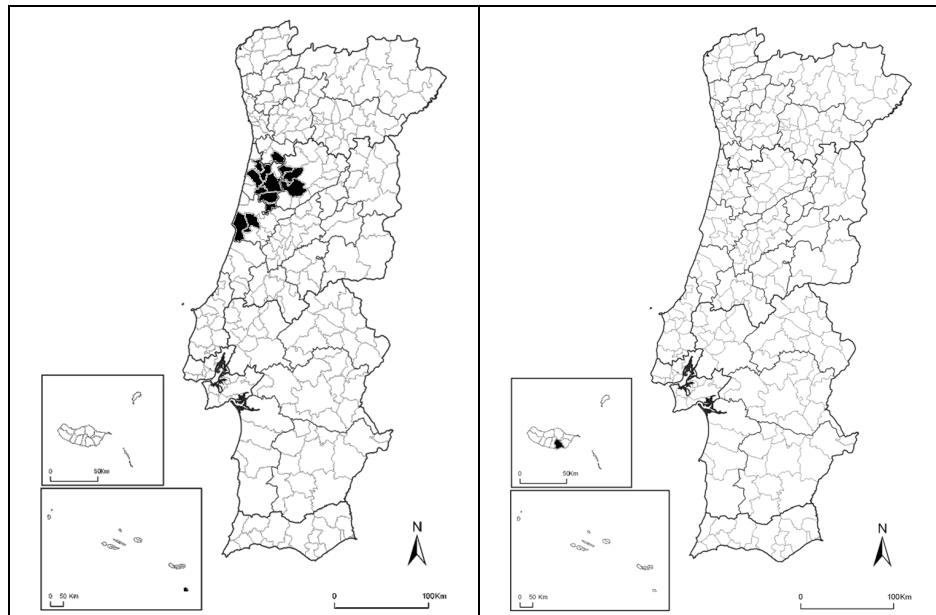


Figure 629. Distribution map of *Hippodonta hungarica*

Figure 630. Distribution map of *Hyalodiscus stelliger*

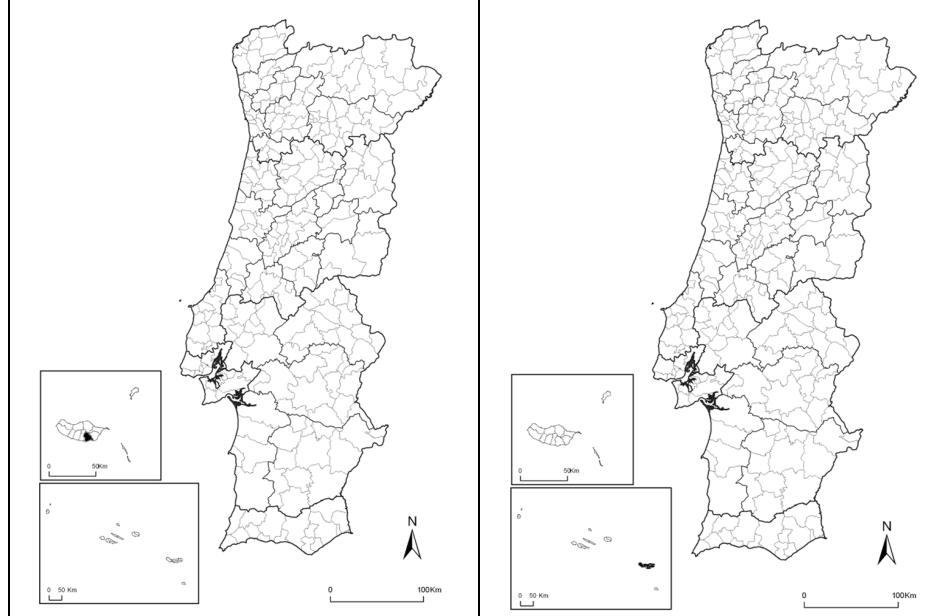
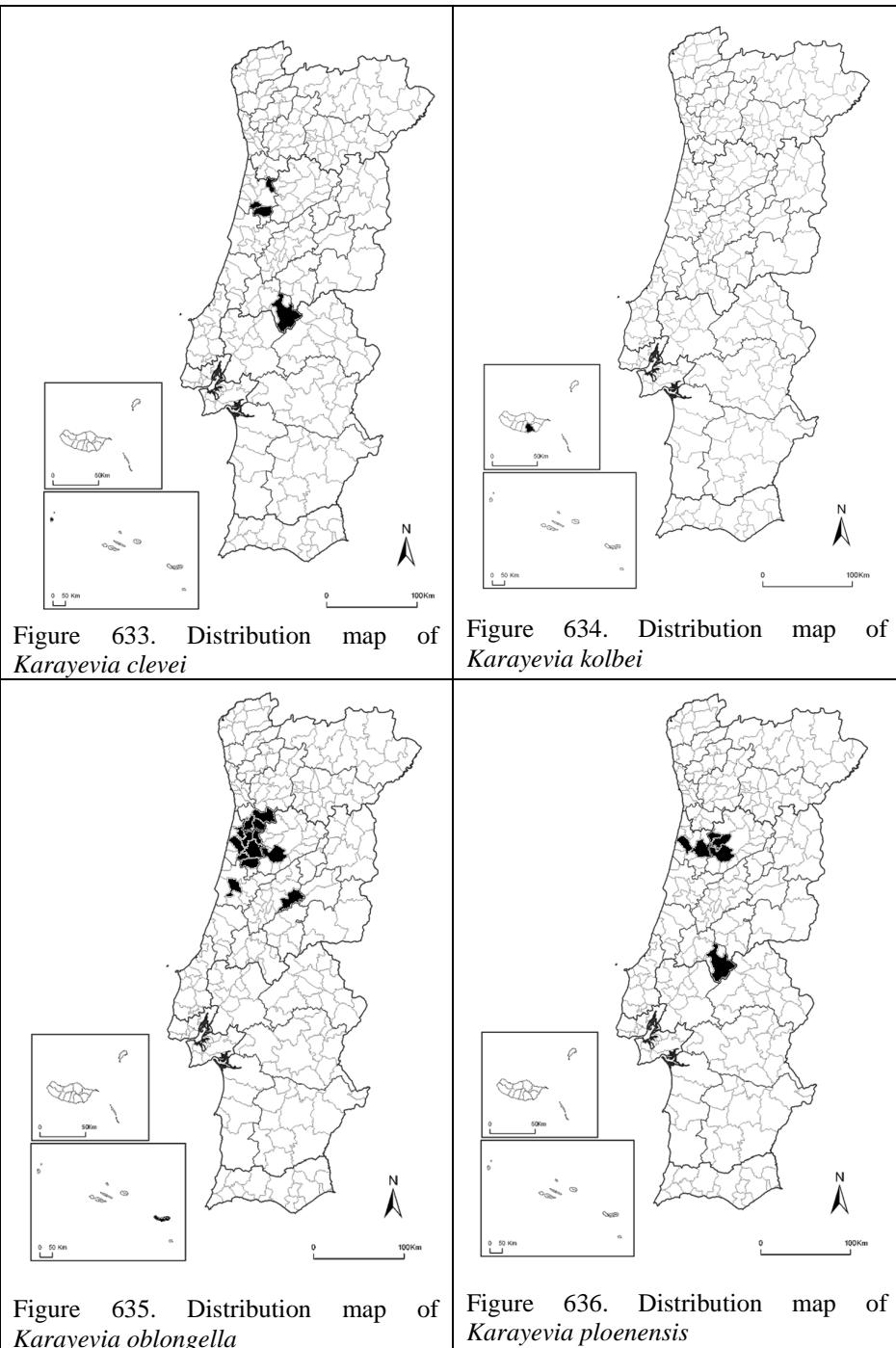
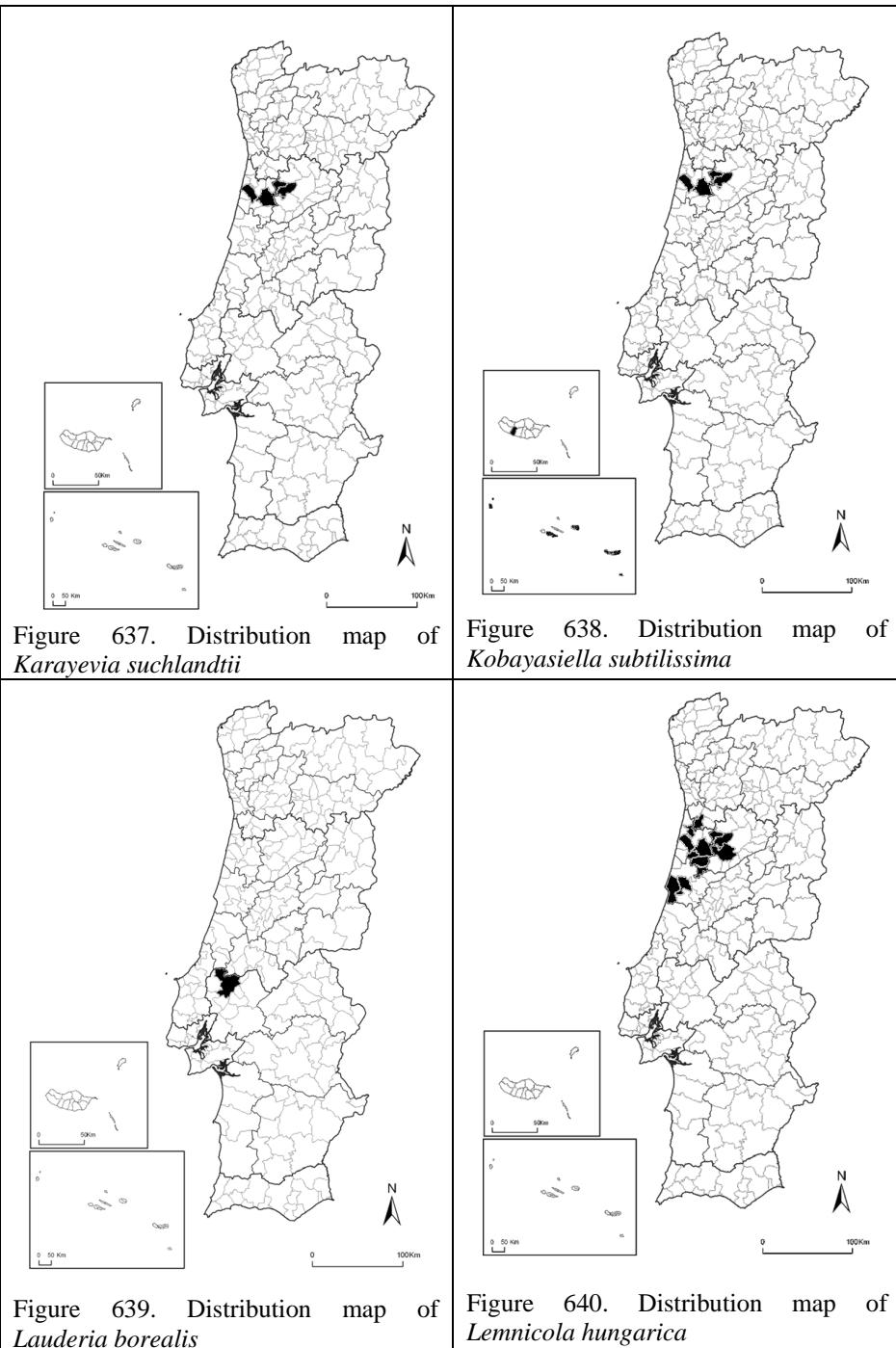
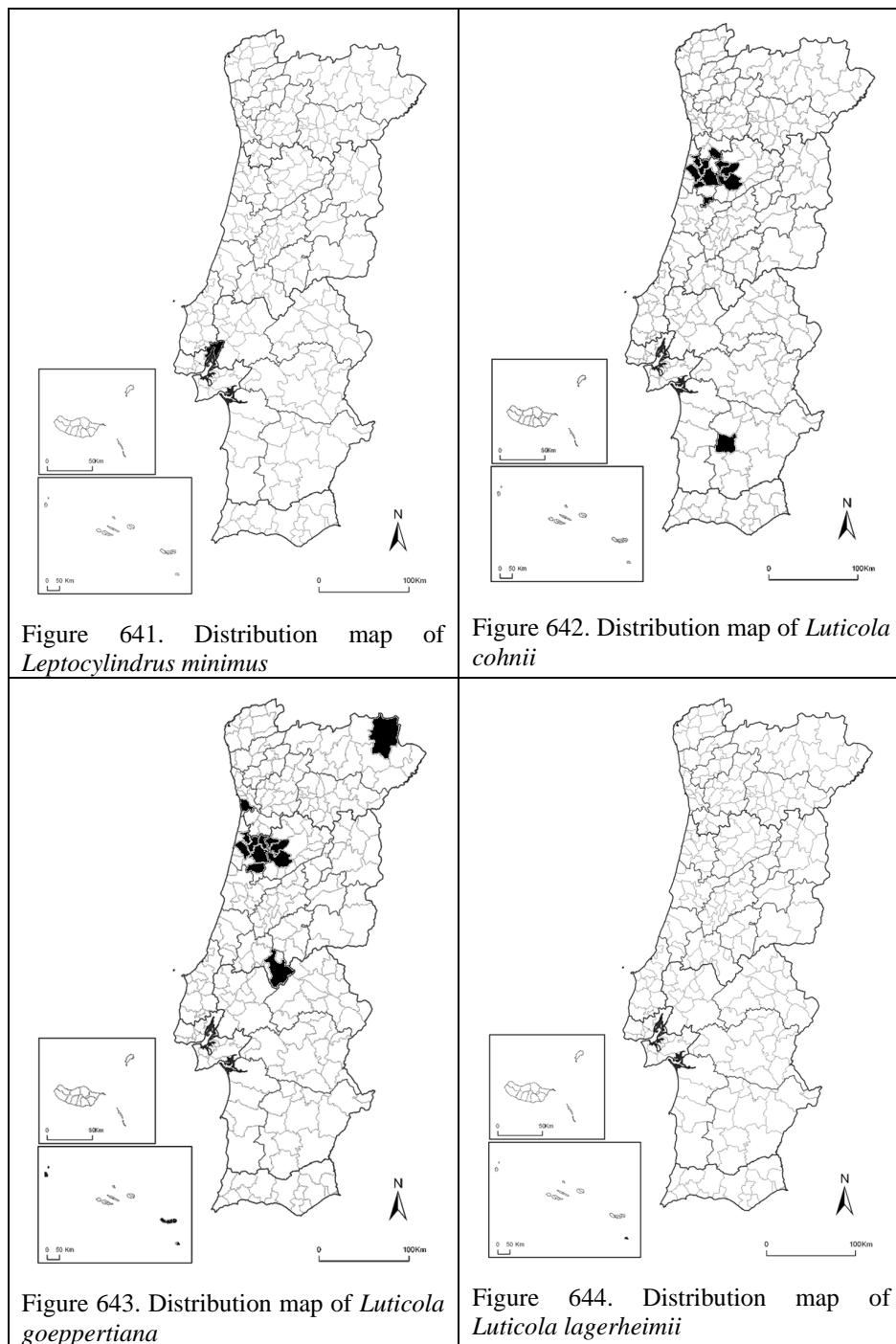


Figure 631. Distribution map of *Hyalodiscus subtilis*

Figure 632. Distribution map of *Karayevia amoena*







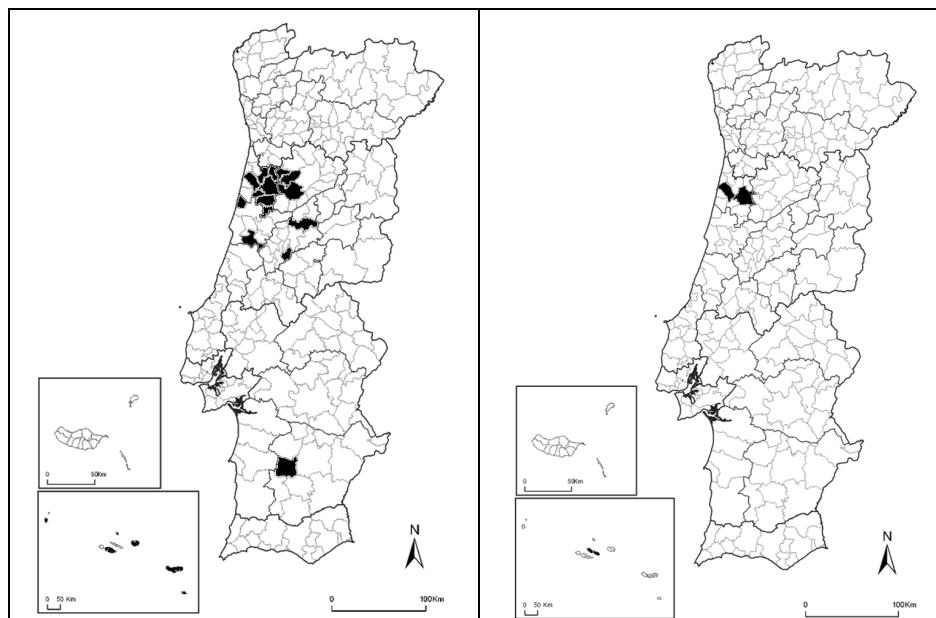


Figure 645. Distribution map of *Luticola mutica*

Figure 646. Distribution map of *Luticola nivalis*

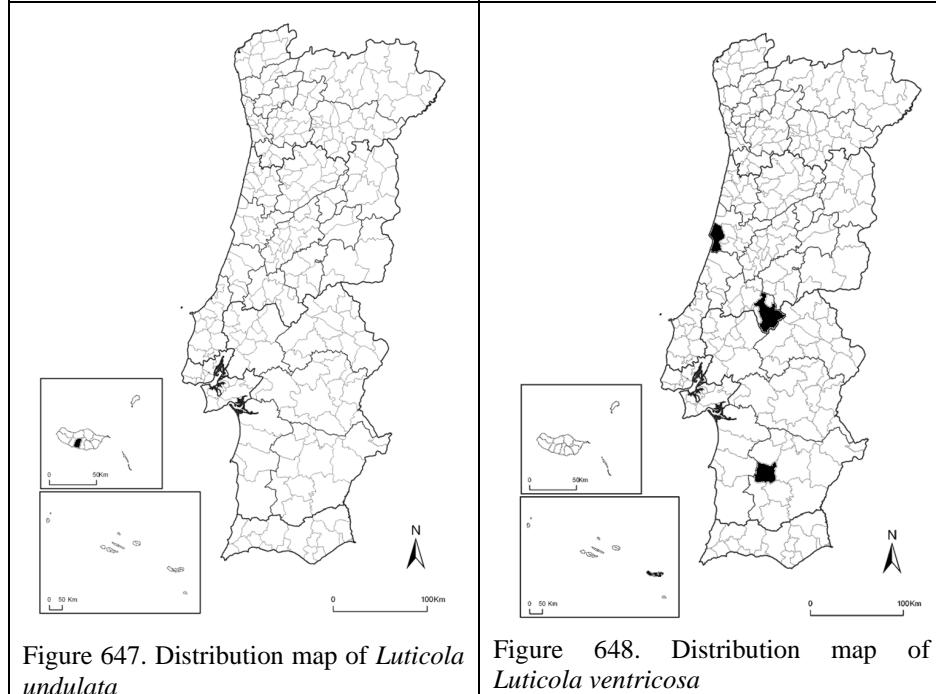
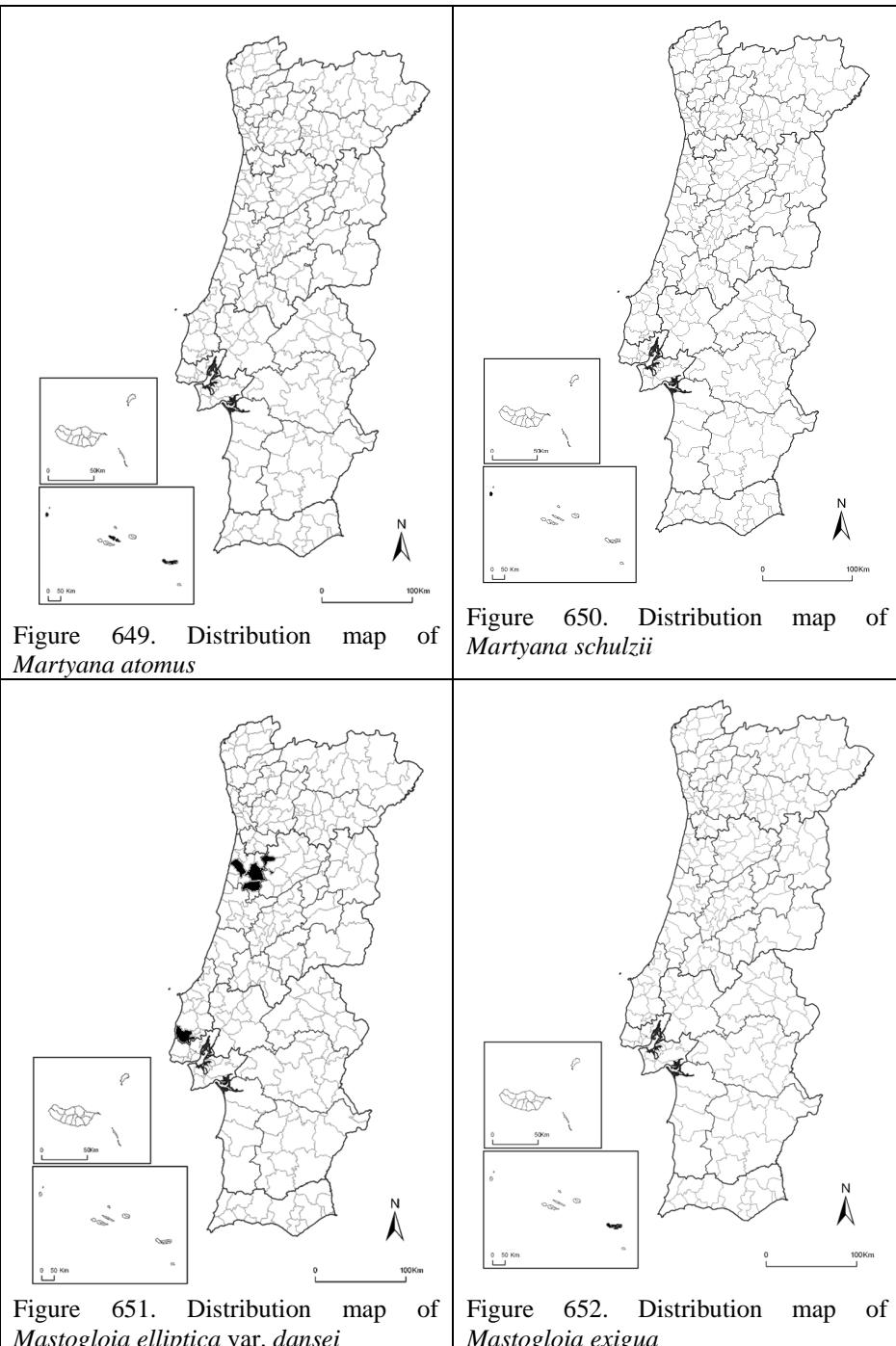
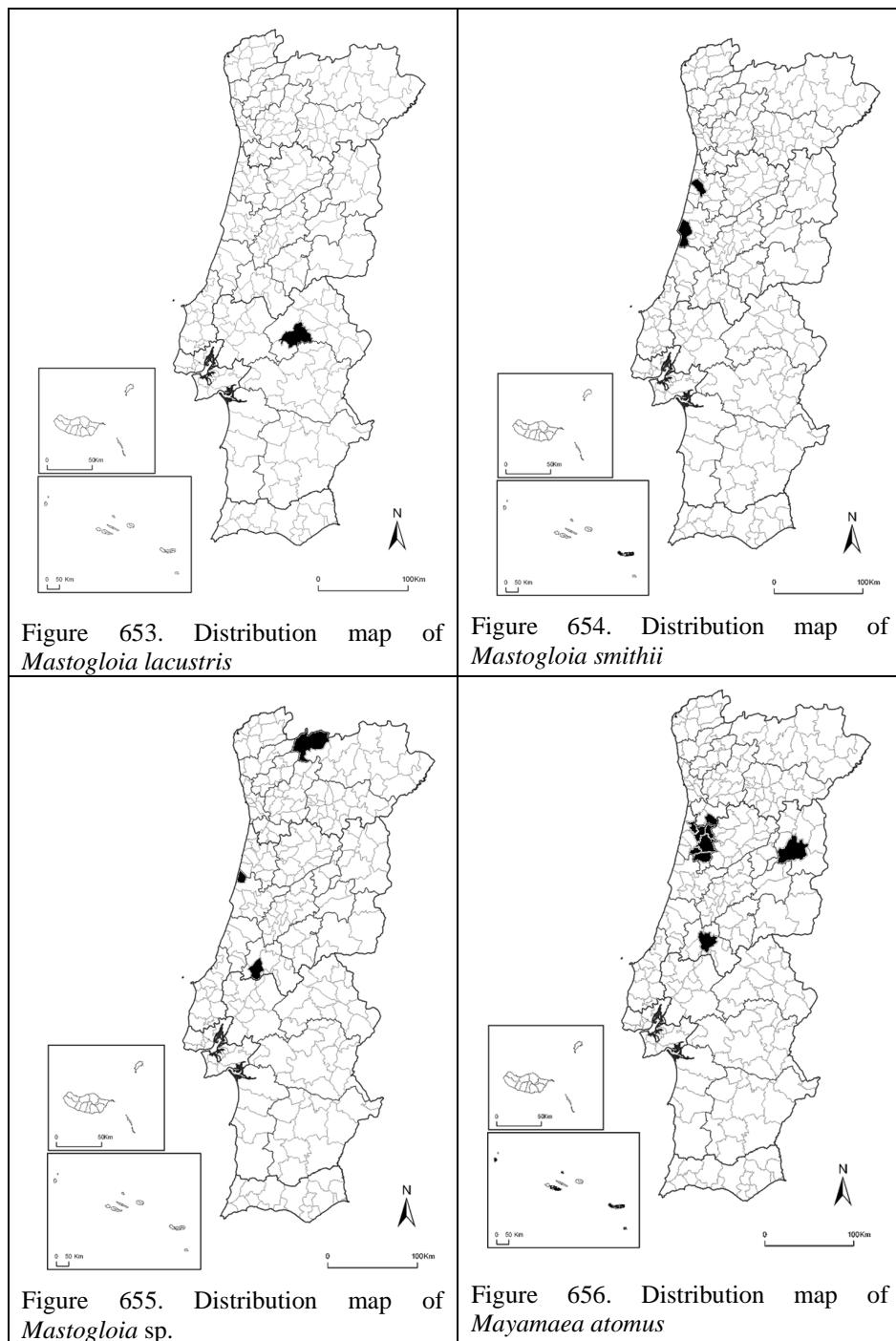


Figure 647. Distribution map of *Luticola undulata*

Figure 648. Distribution map of *Luticola ventricosa*





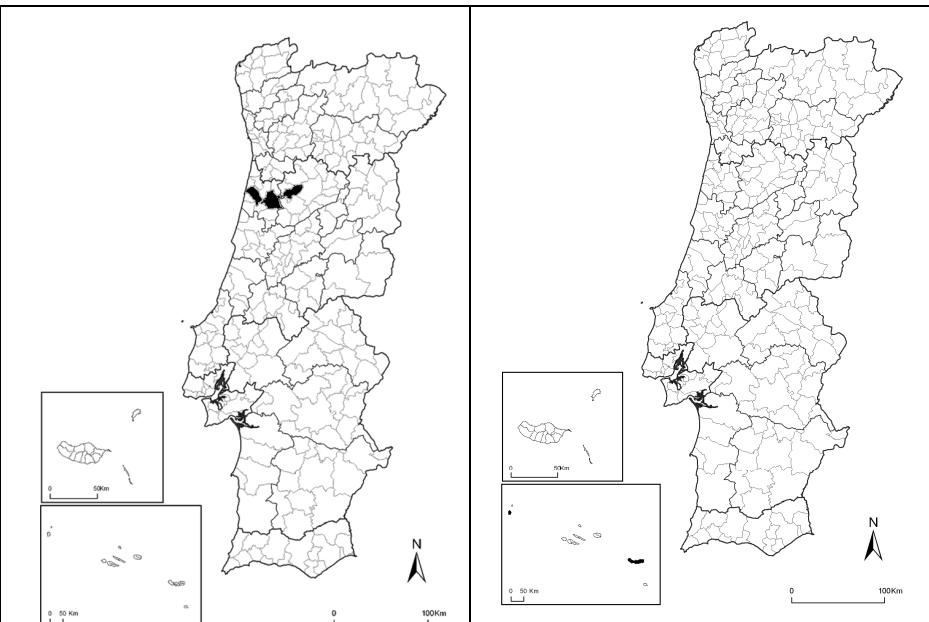


Figure 657. Distribution map of *Mayamaea excelsa*

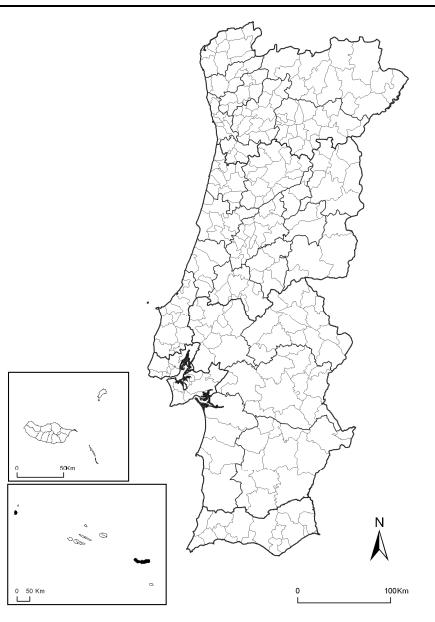


Figure 658. Distribution map of *Mayamaea fossalis*

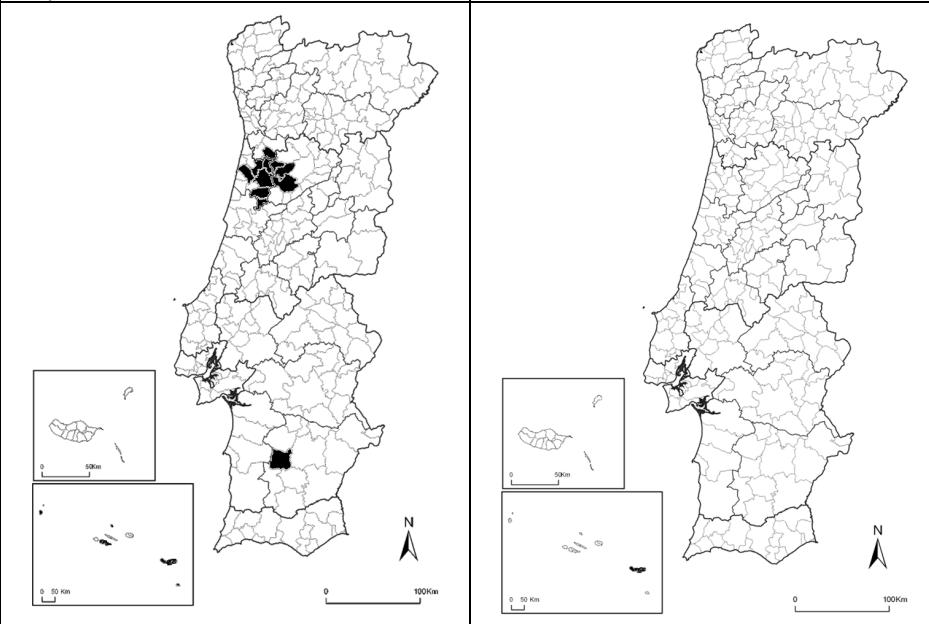


Figure 659. Distribution map of *Mayamaea permittis*

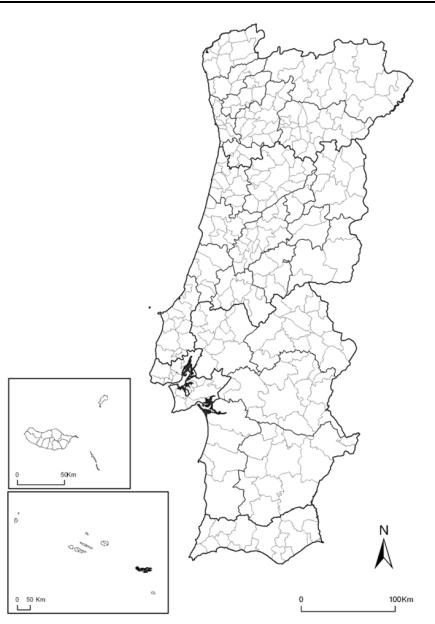
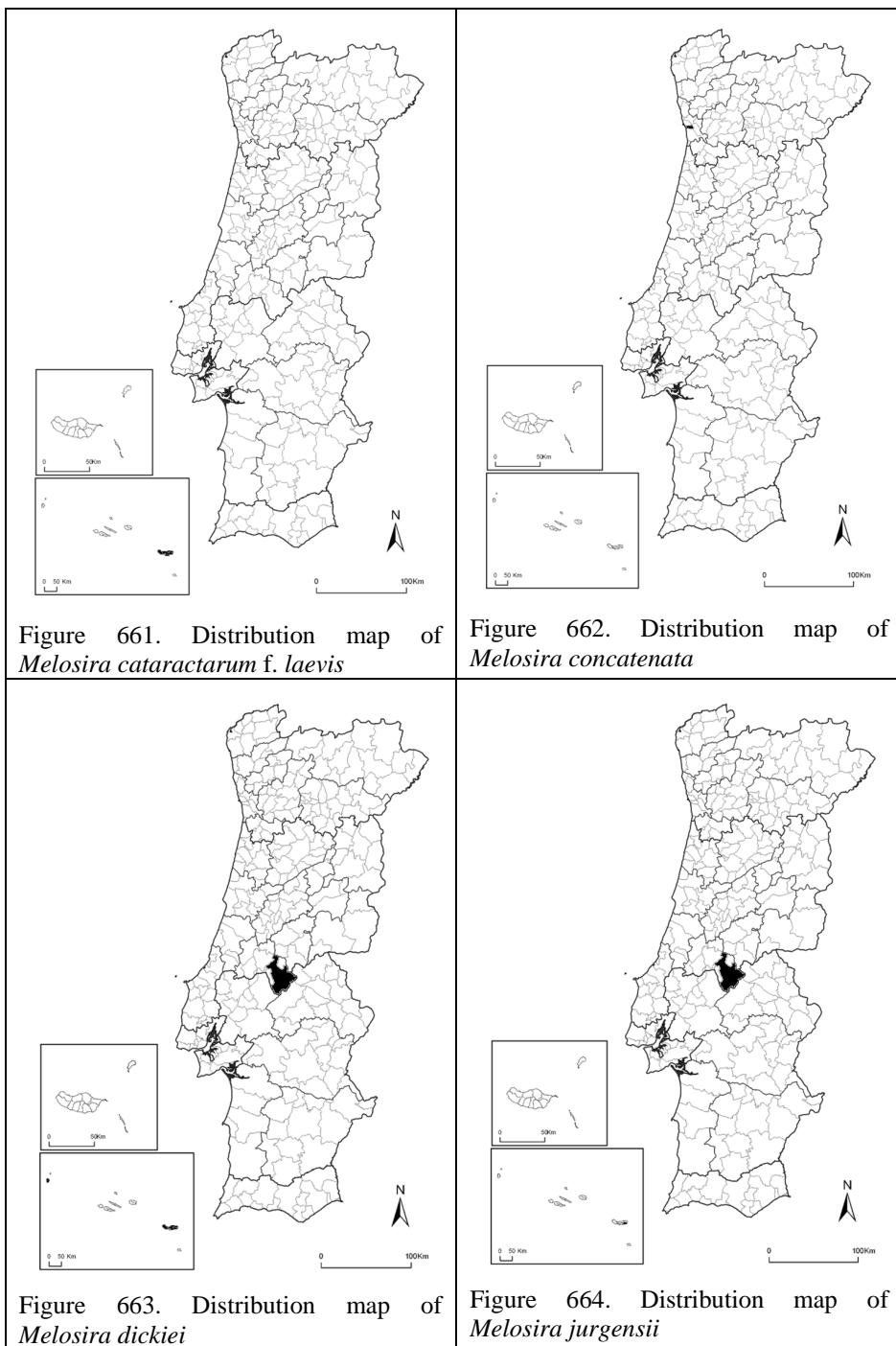


Figure 660. Distribution map of *Melosira cataractarum*



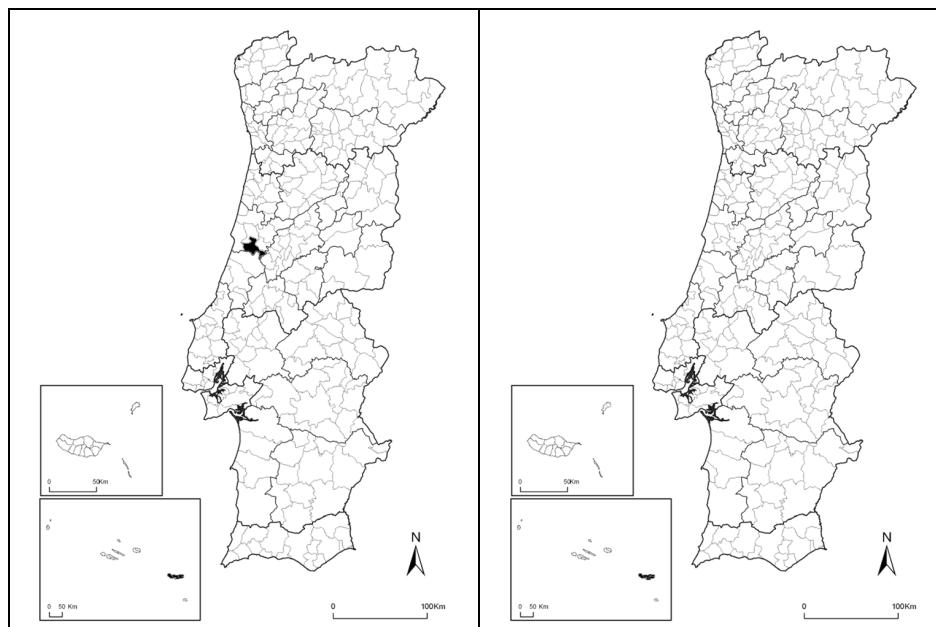


Figure 665. Distribution map of *Melosira lineata*

Figure 666. Distribution map of *Melosira minutissima*

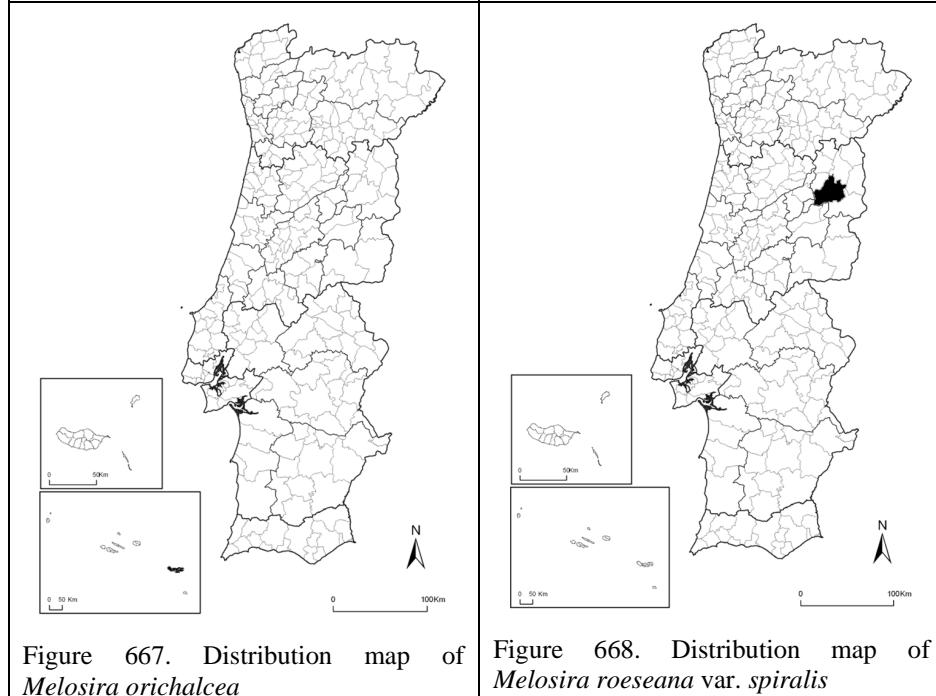
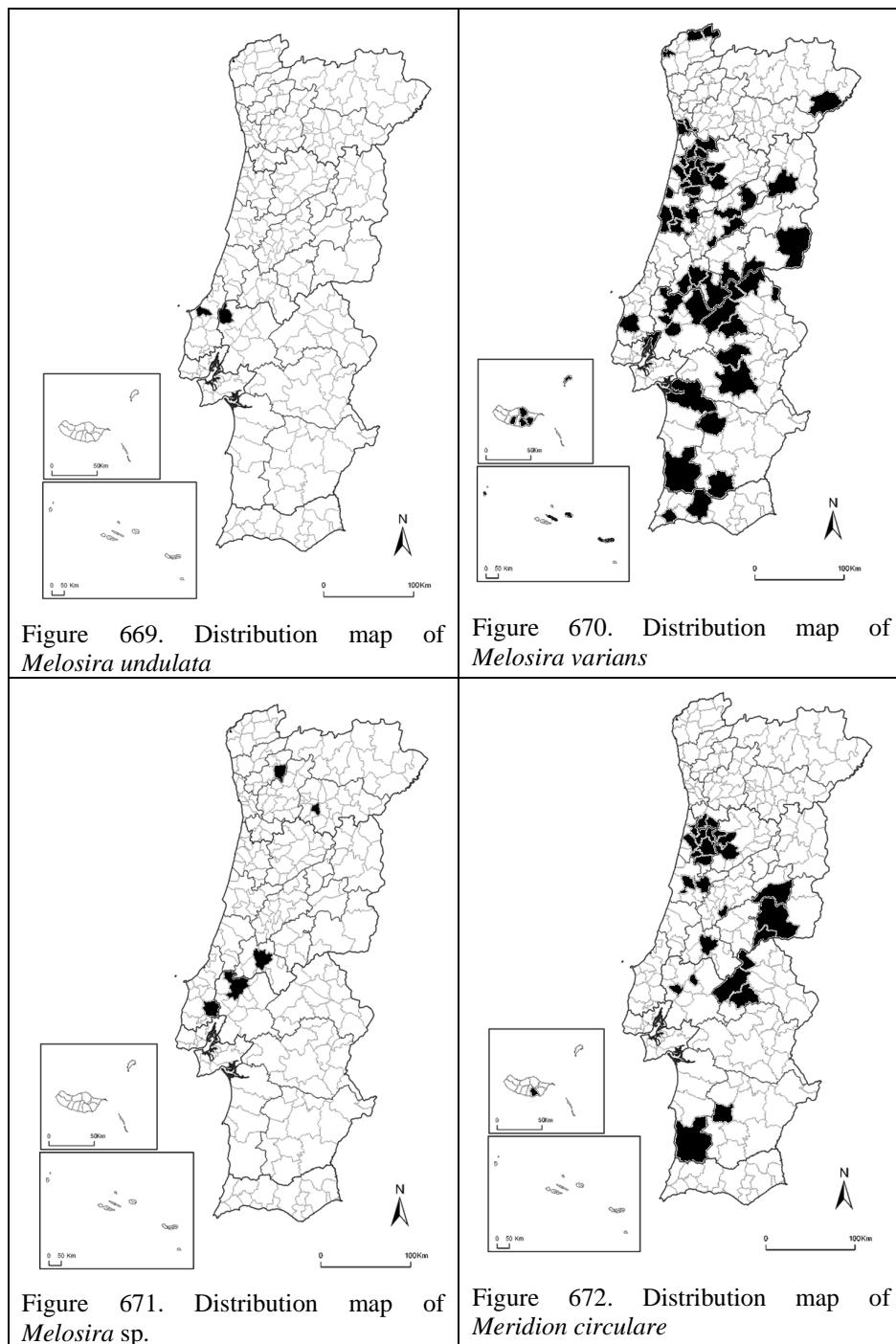


Figure 667. Distribution map of *Melosira orichalcea*

Figure 668. Distribution map of *Melosira roeseana* var. *spiralis*



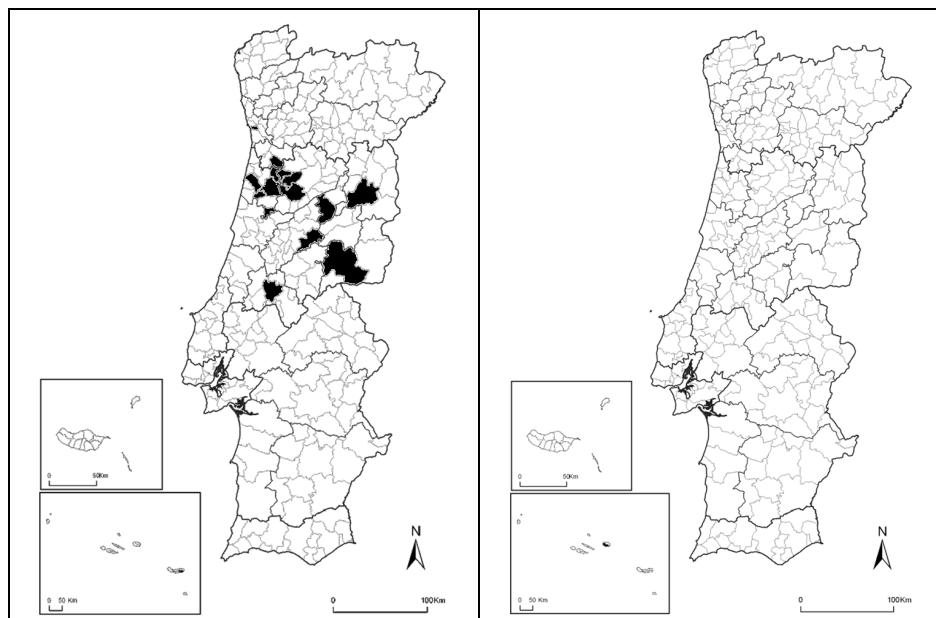


Figure 673. Distribution map of *Meridion constrictum*

Figure 674. Distribution map of *Microcostatus krasskei*

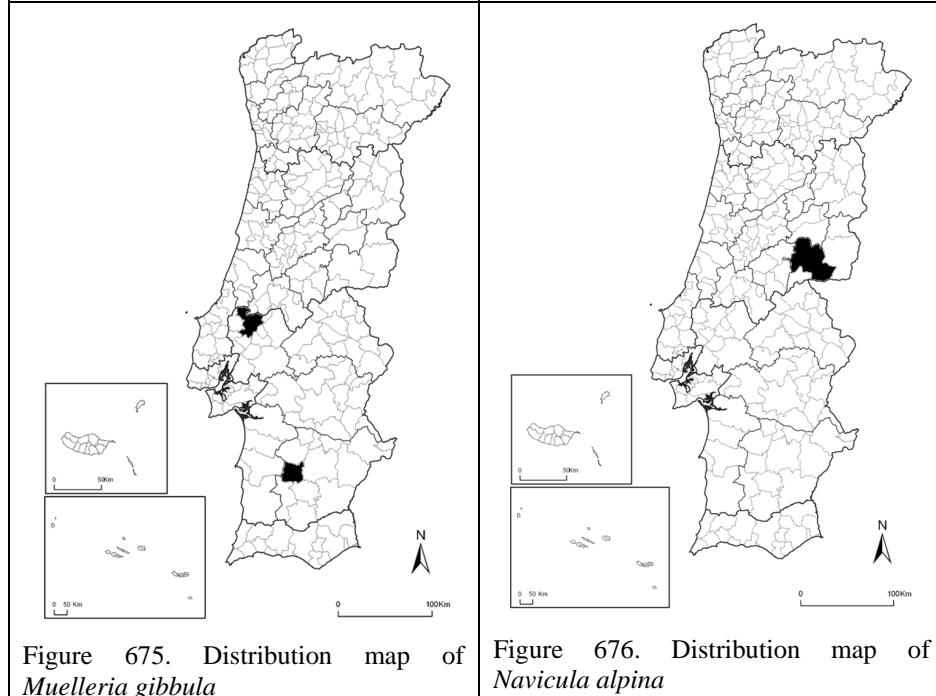


Figure 675. Distribution map of *Muelleria gibbula*

Figure 676. Distribution map of *Navicula alpina*

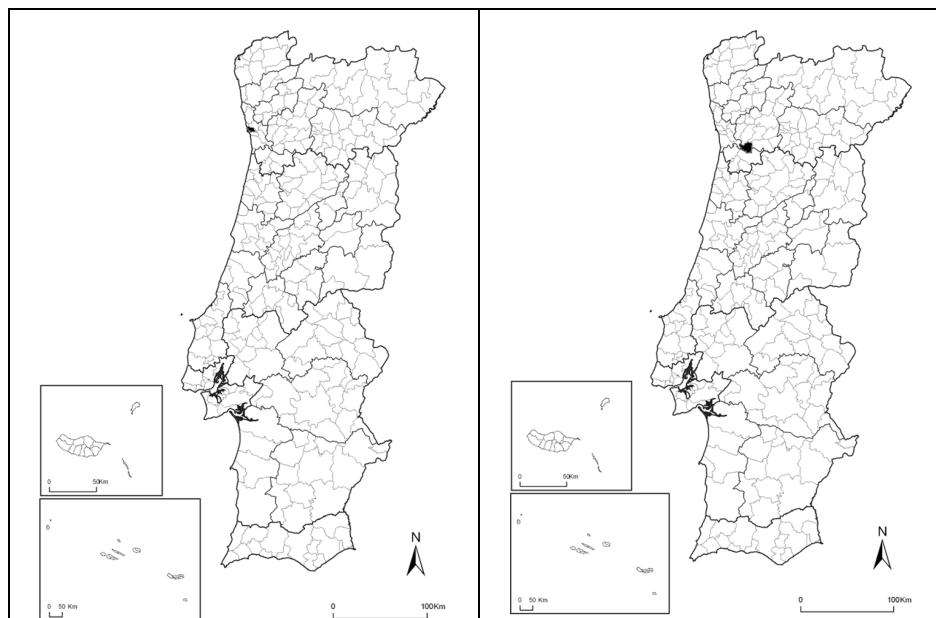


Figure 677. Distribution map of *Navicula amphiceros*

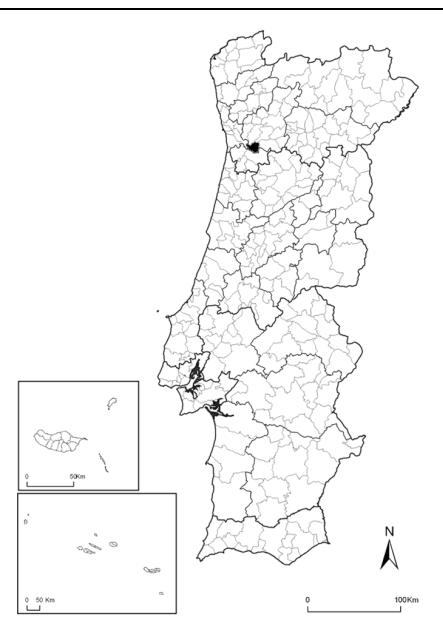


Figure 678. Distribution map of *Navicula amphigomphus f. minor*

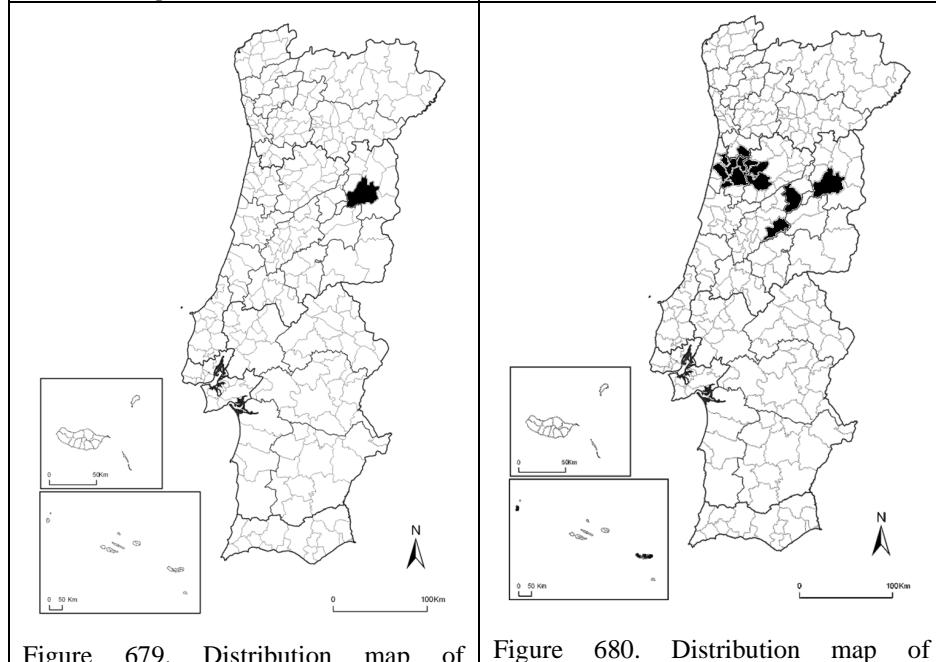


Figure 679. Distribution map of *Navicula anglica* var. *subsalina*

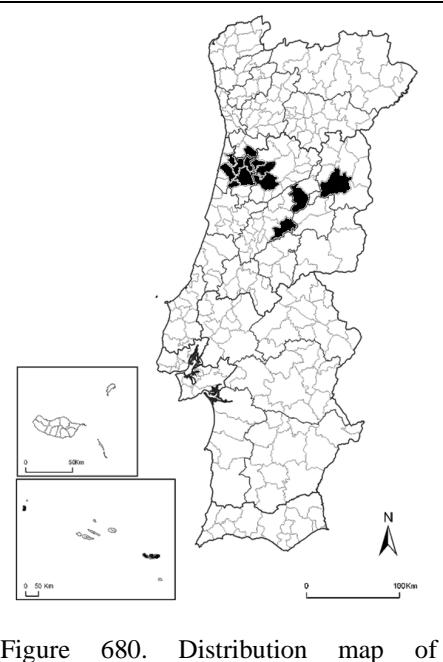


Figure 680. Distribution map of *Navicula angusta*

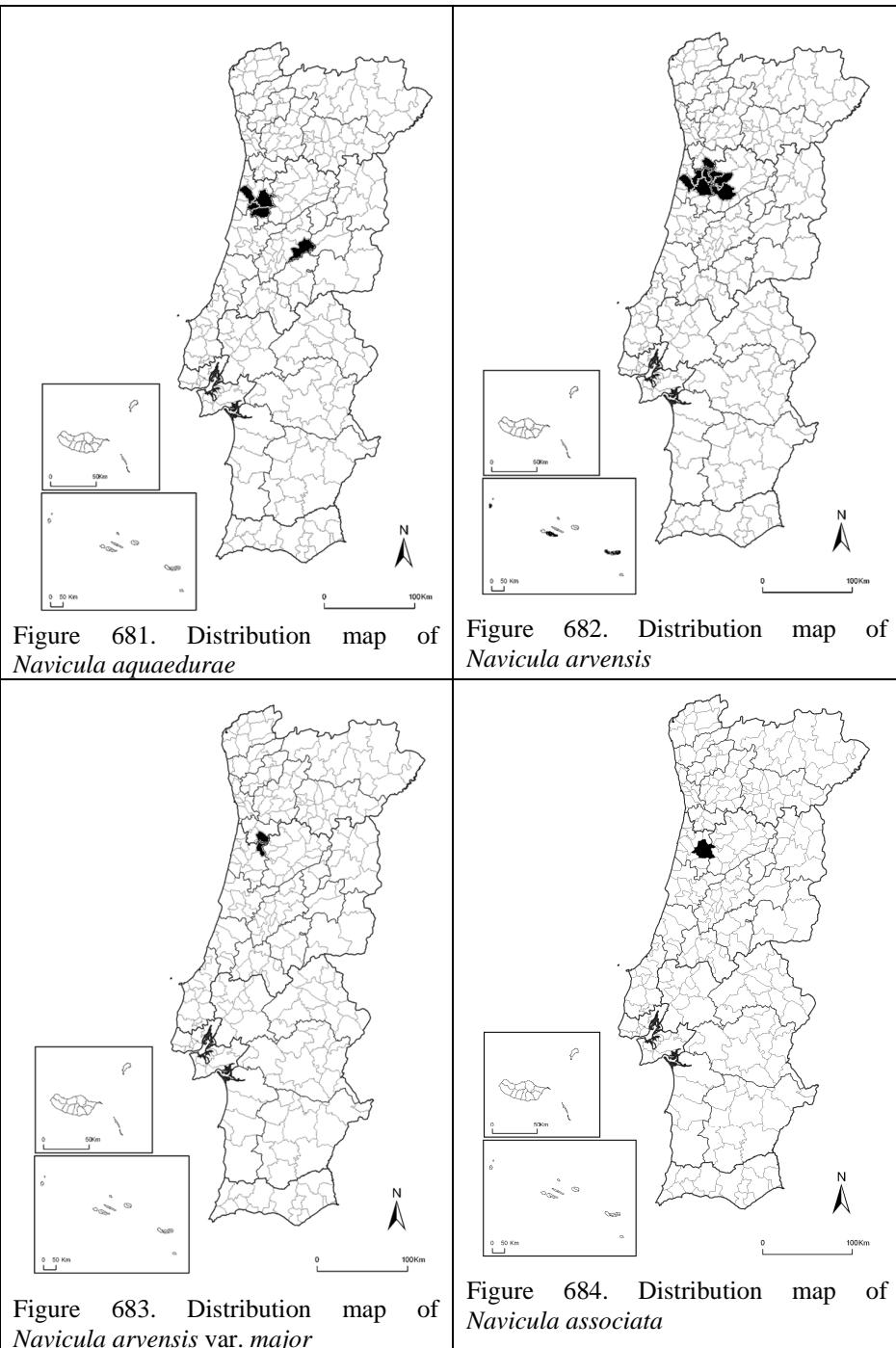
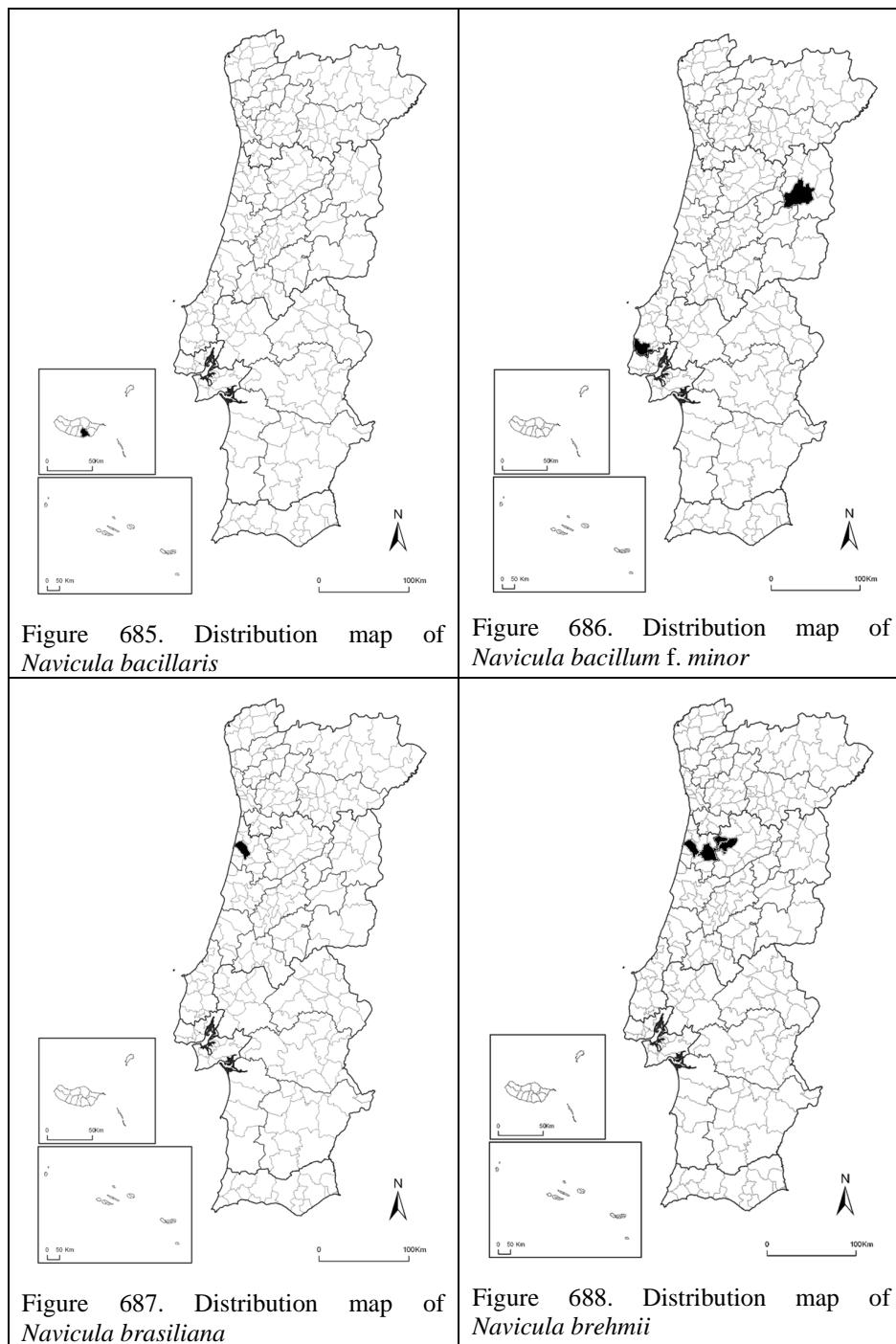


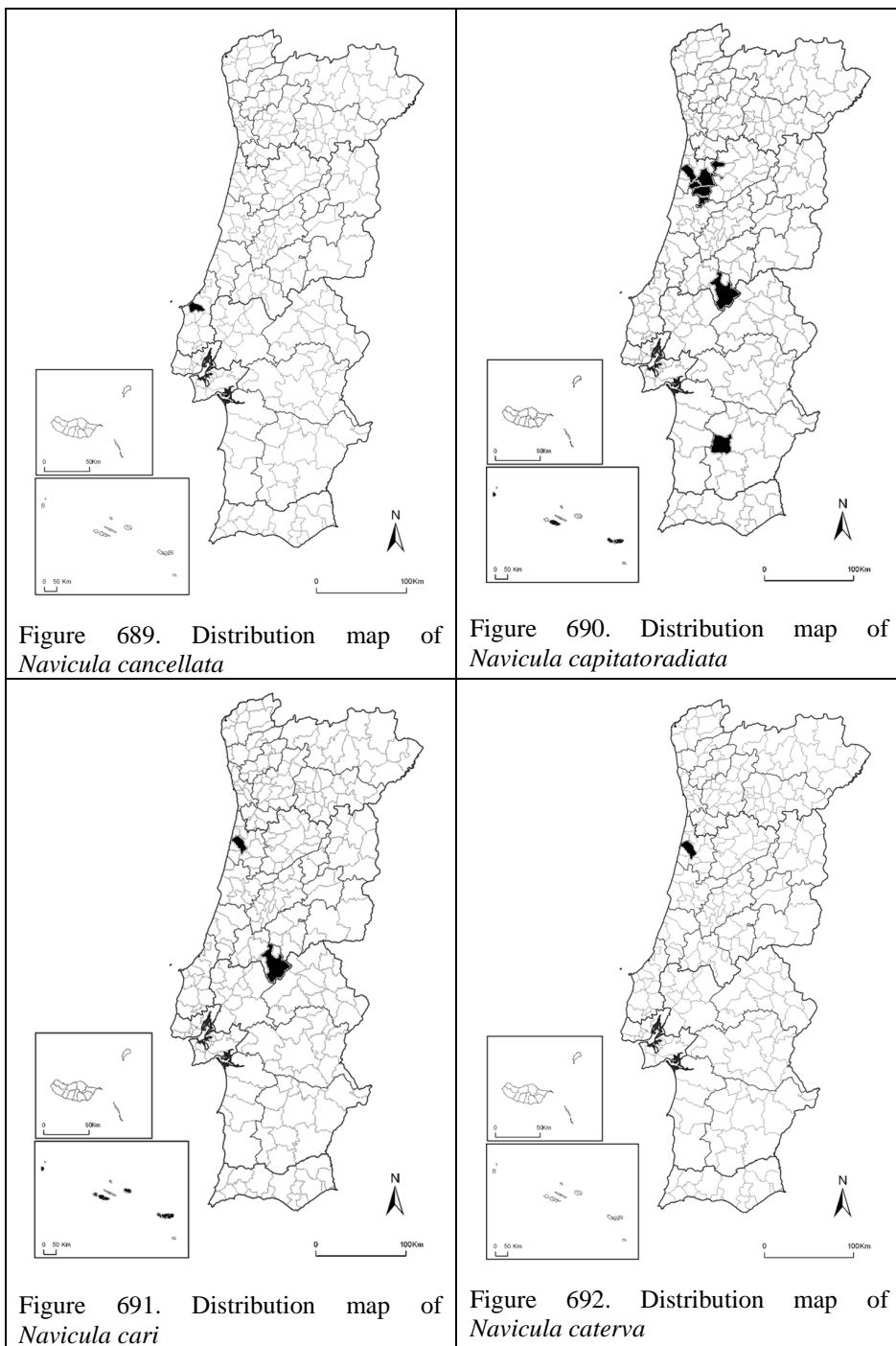
Figure 681. Distribution map of *Navicula aquaedurae*

Figure 682. Distribution map of *Navicula arvensis*

Figure 683. Distribution map of *Navicula arvensis* var. *major*

Figure 684. Distribution map of *Navicula associata*





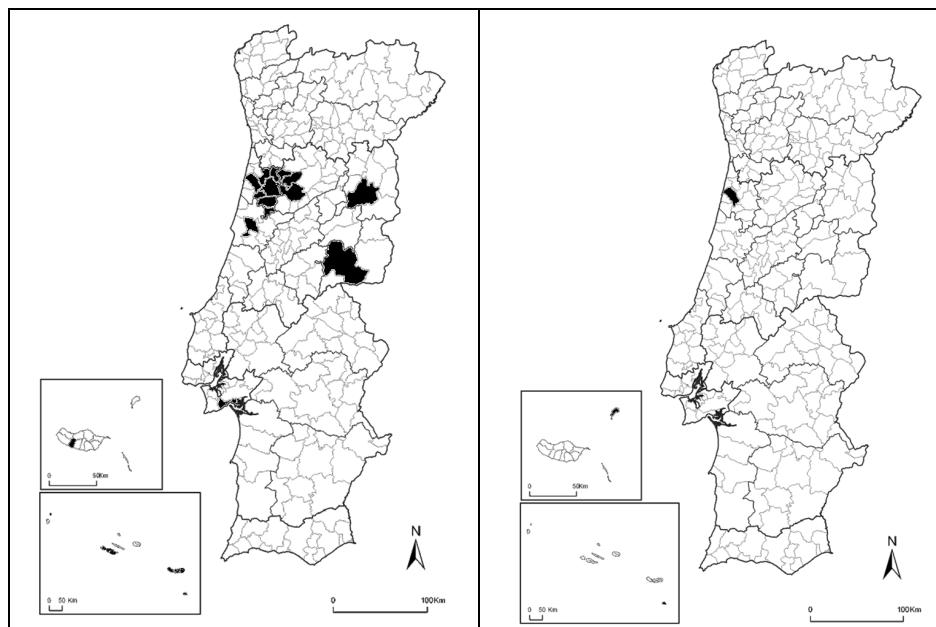


Figure 693. Distribution map of *Navicula cincta*

Figure 694. Distribution map of *Navicula cincta* var. *heufleri*

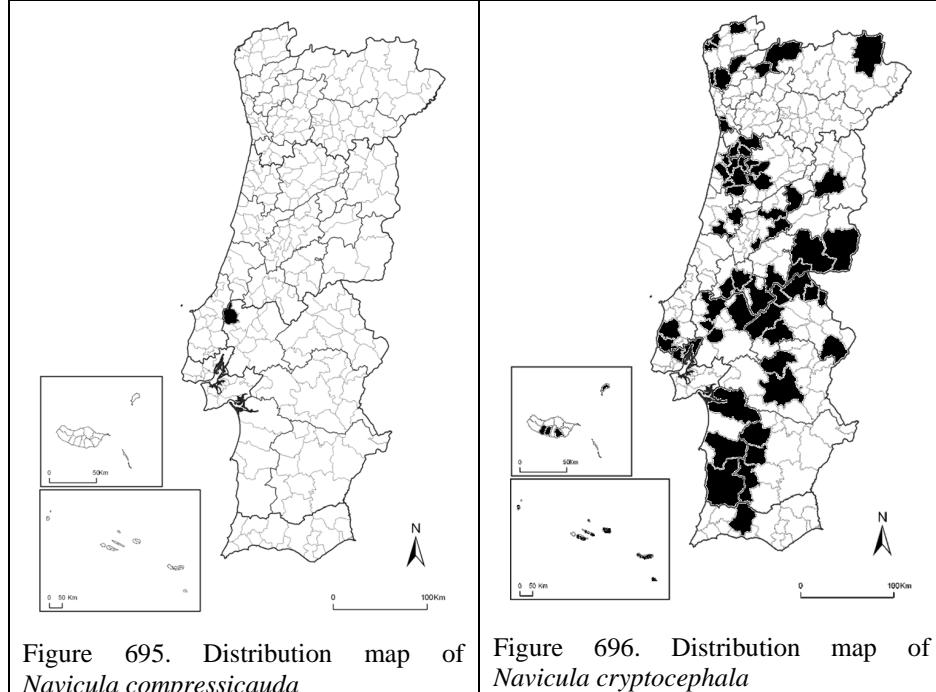


Figure 695. Distribution map of *Navicula compressicauda*

Figure 696. Distribution map of *Navicula cryptocephala*

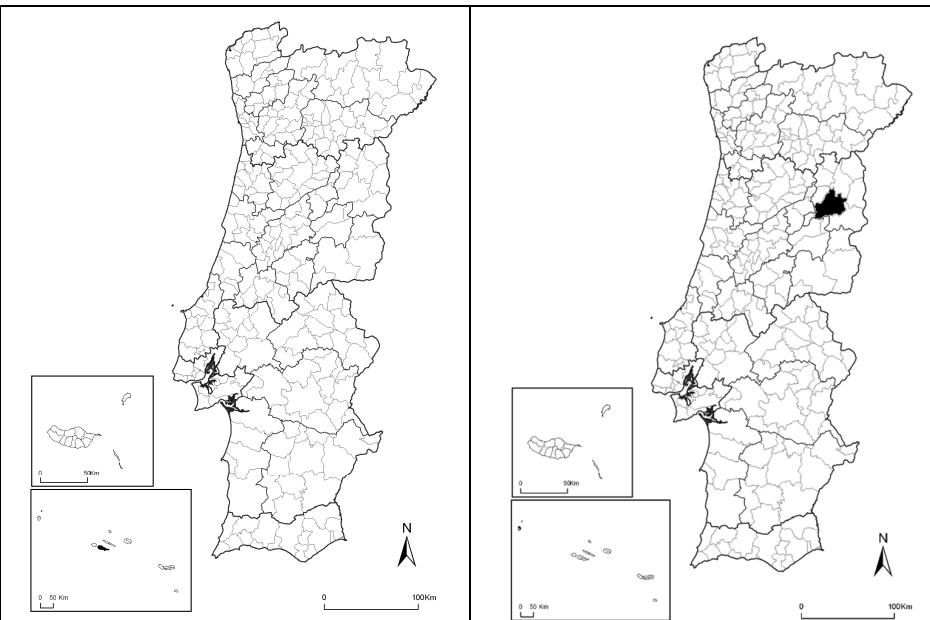


Figure 697. Distribution map of *Navicula cryptocephala* var. *exilis*

Figure 698. Distribution map of *Navicula cryptocephala* var. *intermedia*

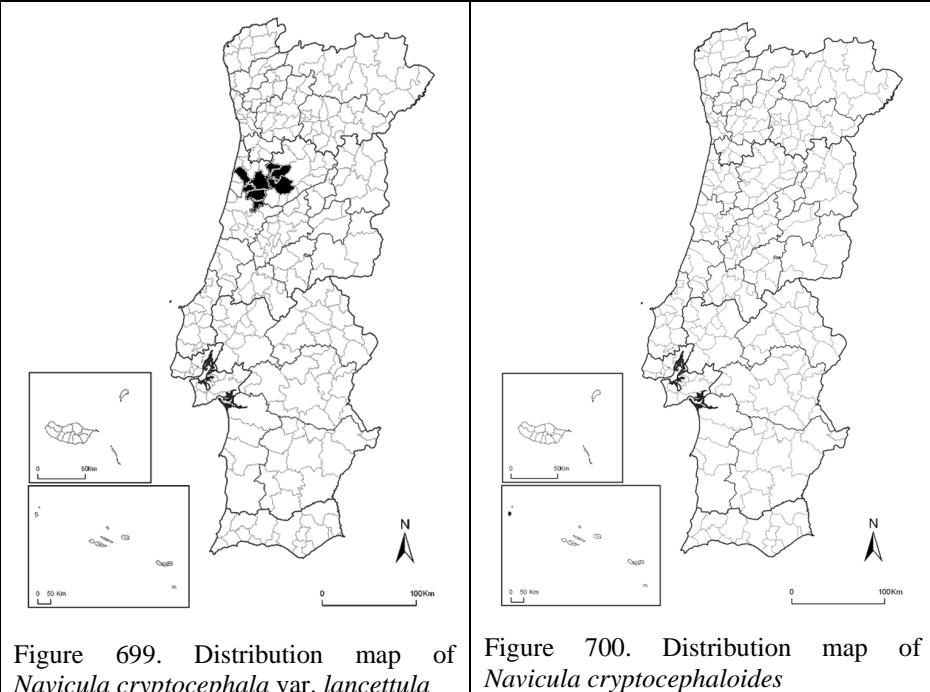


Figure 699. Distribution map of *Navicula cryptocephala* var. *lancettula*

Figure 700. Distribution map of *Navicula cryptocephaloidea*

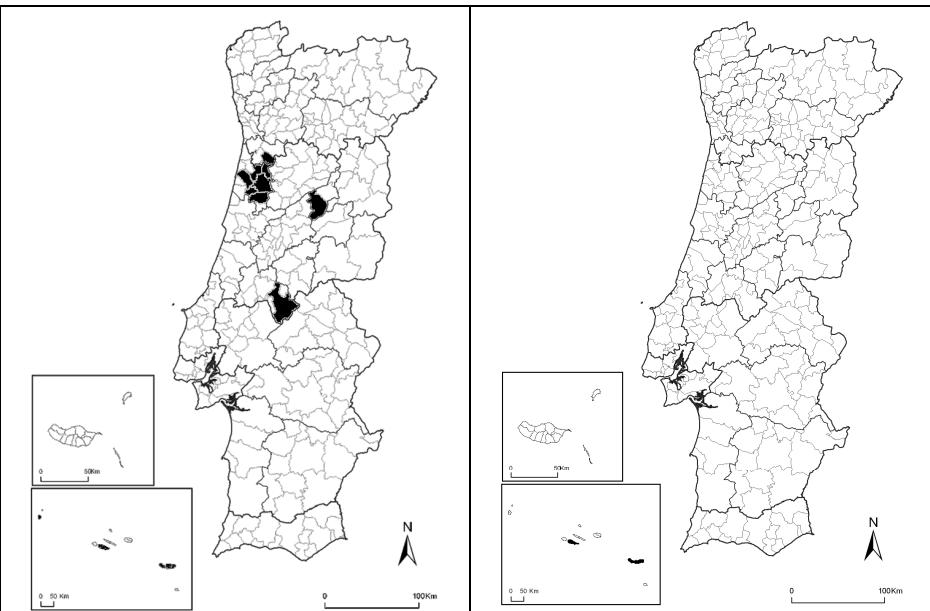


Figure 701. Distribution map of *Navicula cryptotenella*

Figure 702. Distribution map of *Navicula cryptotenelloides*

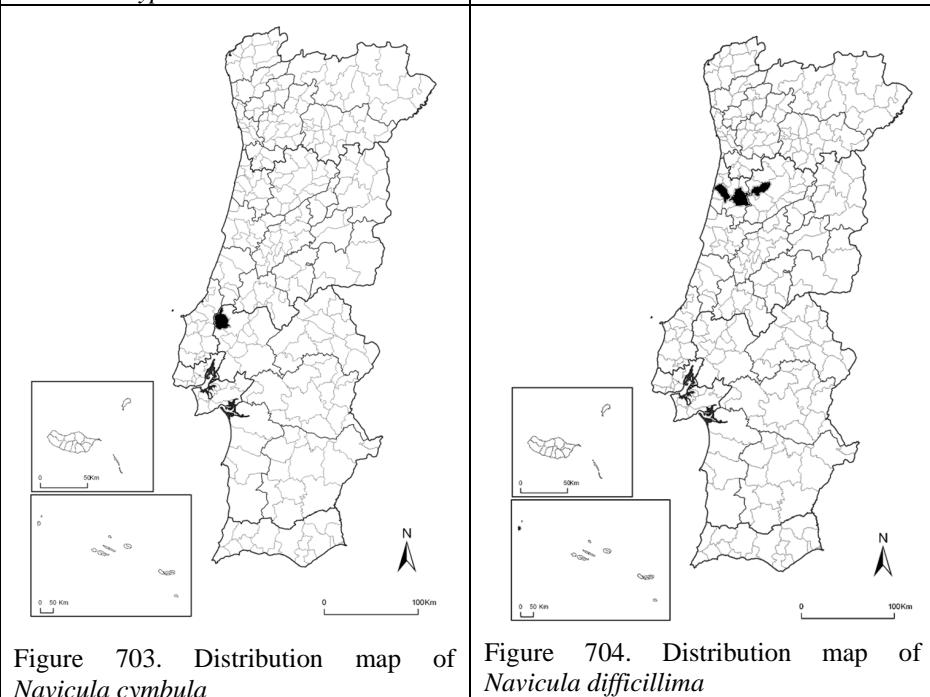
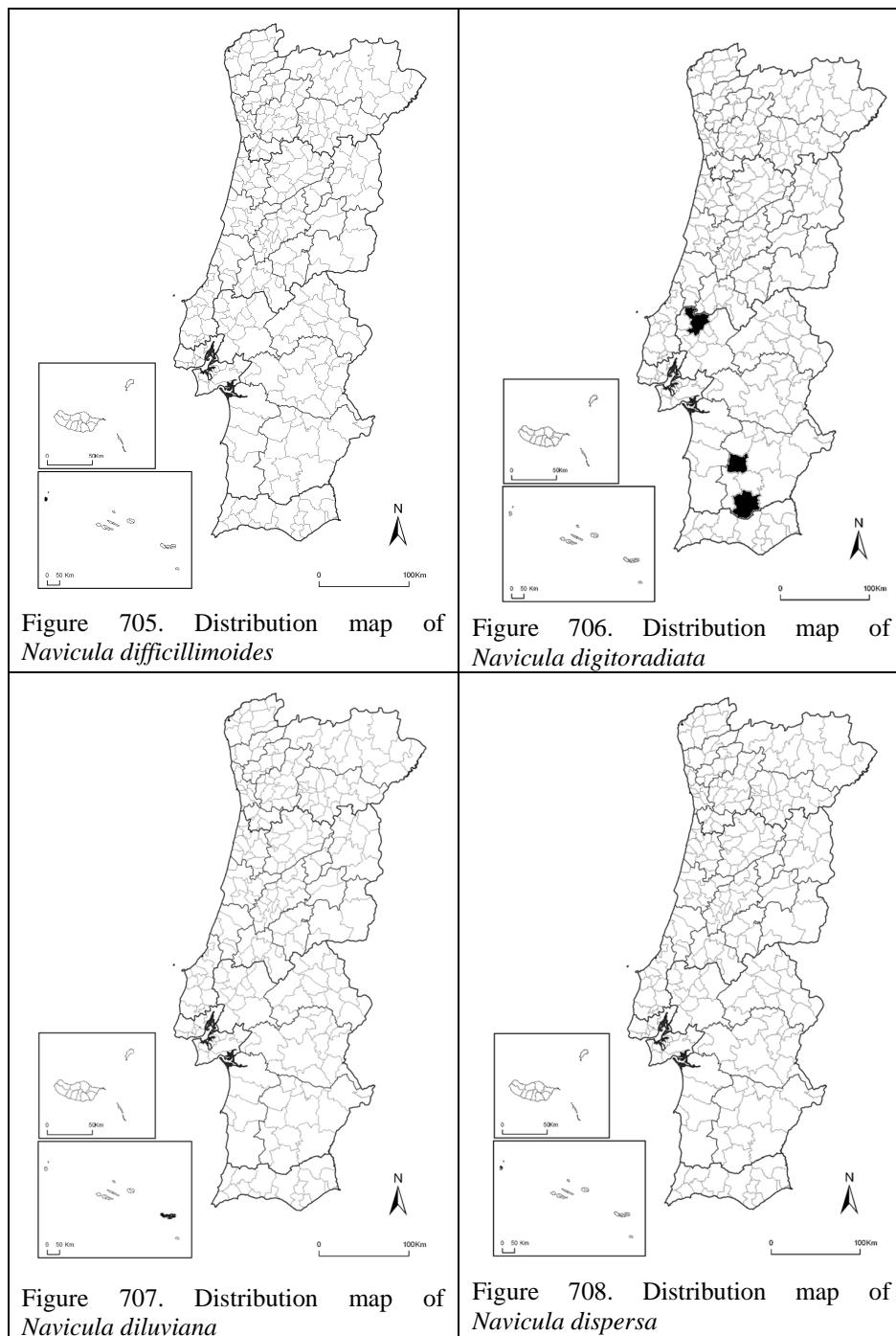
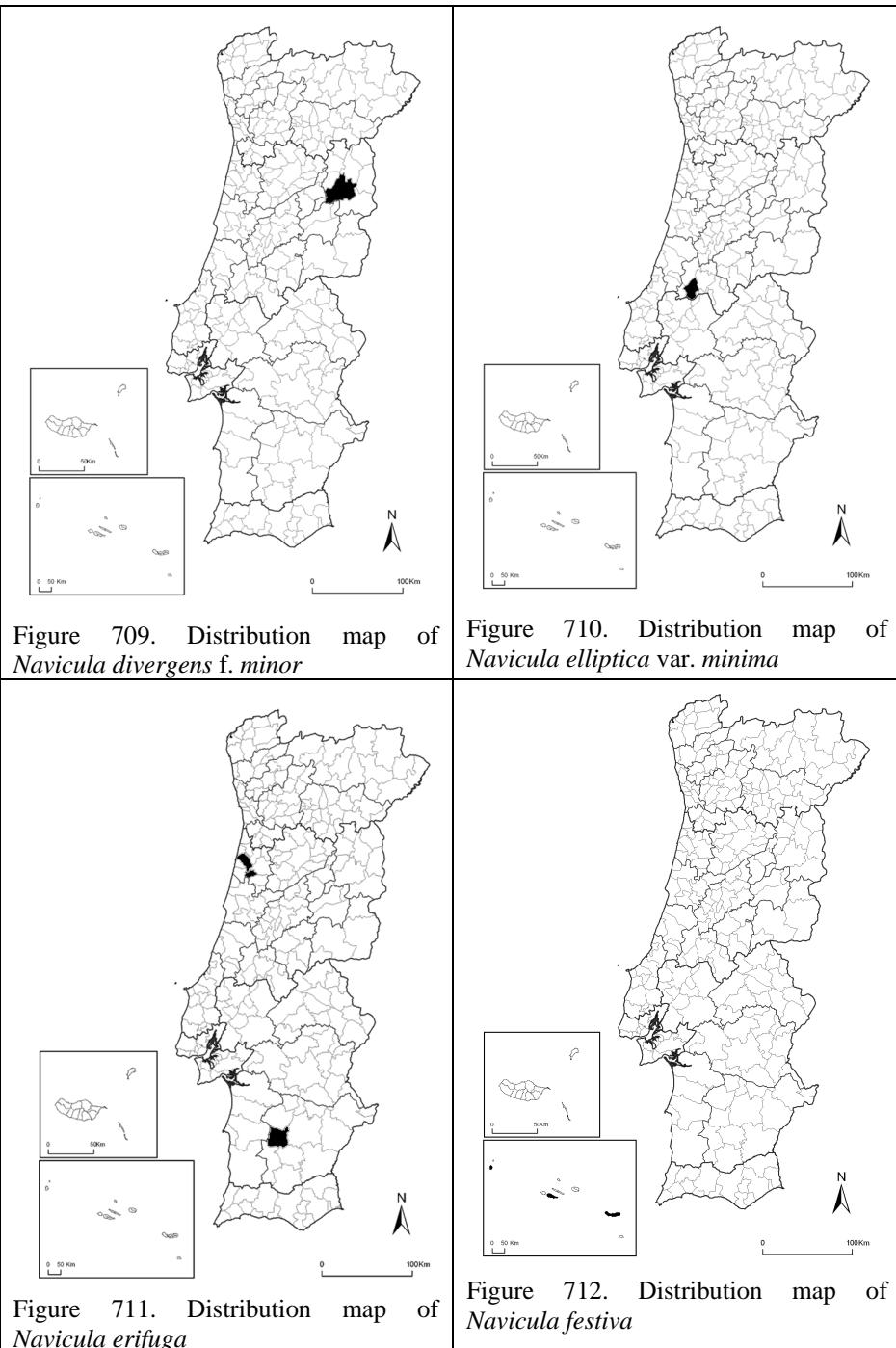


Figure 703. Distribution map of *Navicula cymbula*

Figure 704. Distribution map of *Navicula difficillima*





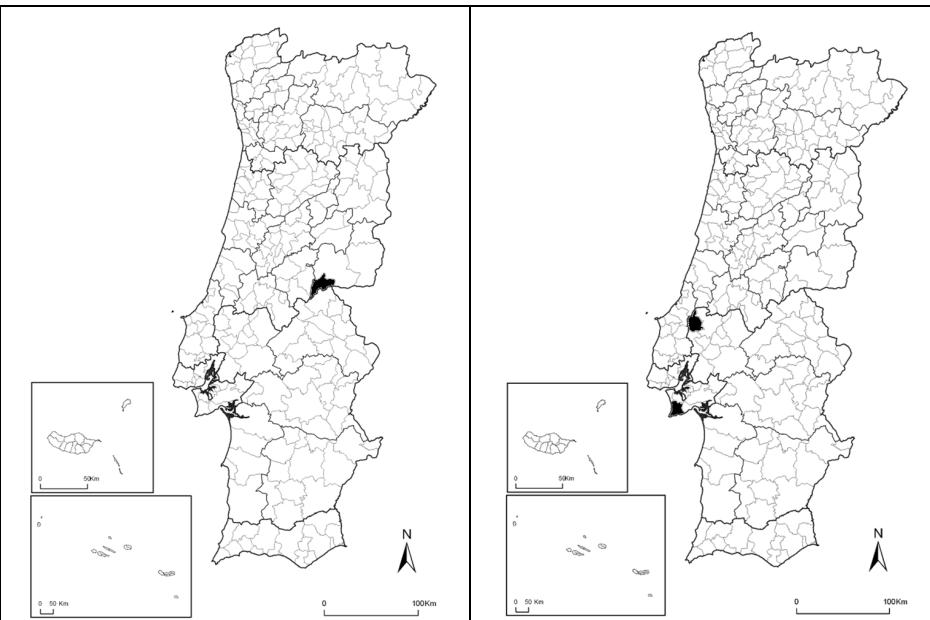


Figure 713. Distribution map of *Navicula fusca*

Figure 714. Distribution map of *Navicula fusiformis*

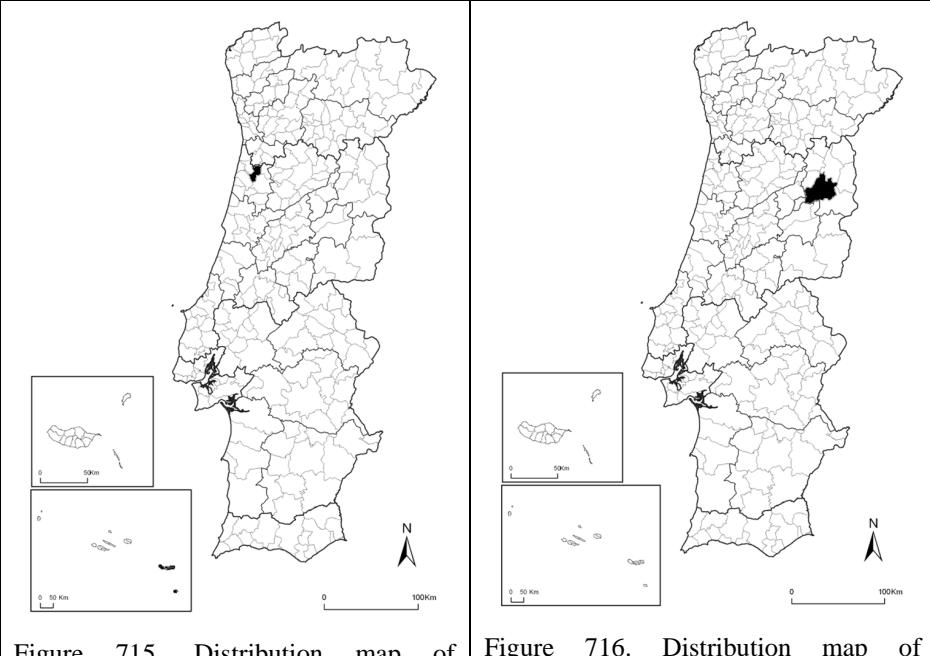
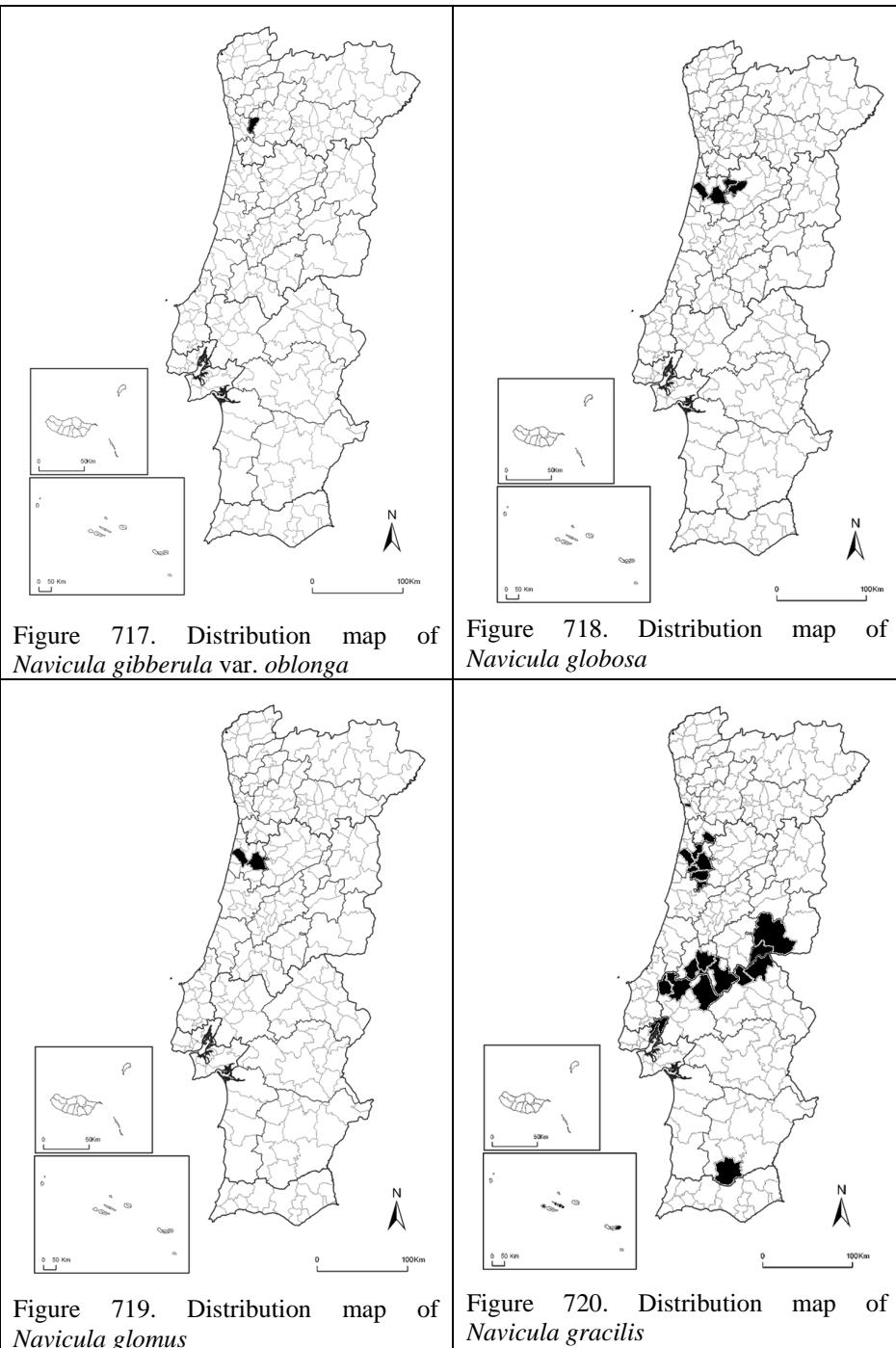


Figure 715. Distribution map of *Navicula germainii*

Figure 716. Distribution map of *Navicula gibba* var. *brevistriata*



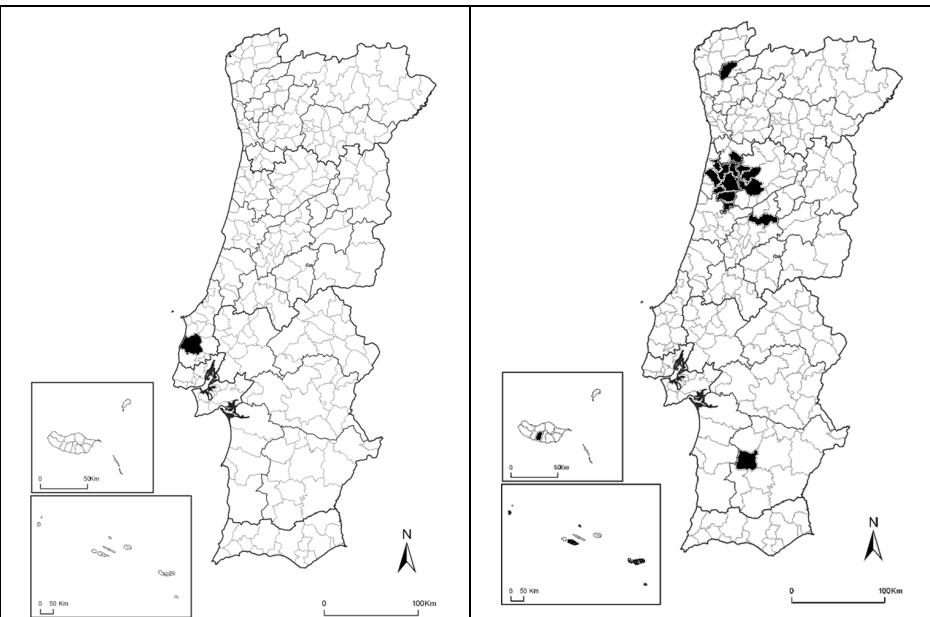


Figure 721. Distribution map of *Navicula gracilis* var. *schizonemoides*

Figure 722. Distribution map of *Navicula gregaria*

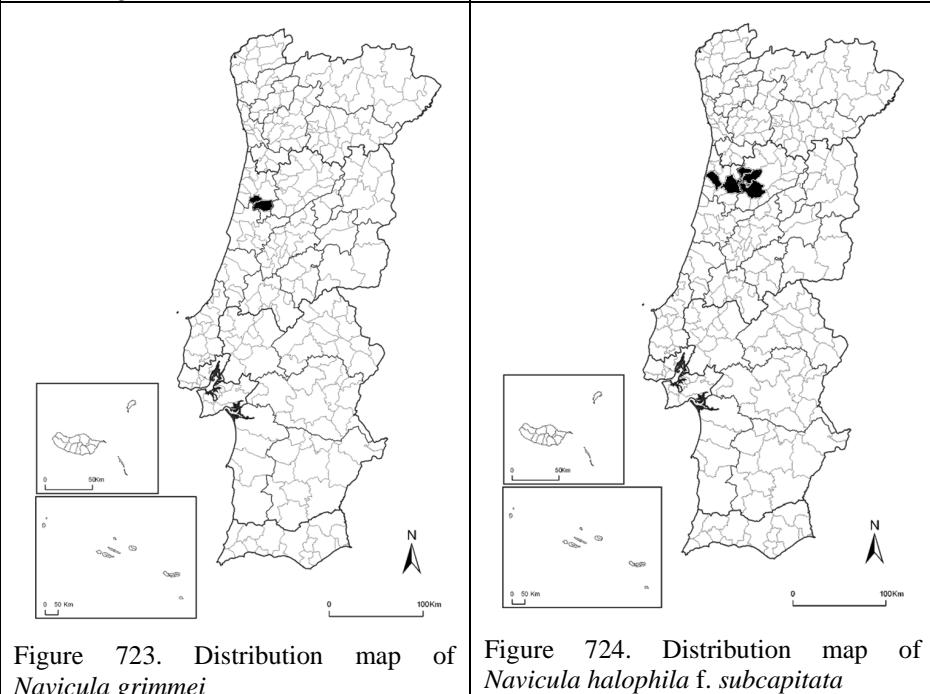


Figure 723. Distribution map of *Navicula grimmei*

Figure 724. Distribution map of *Navicula halophila* f. *subcapitata*

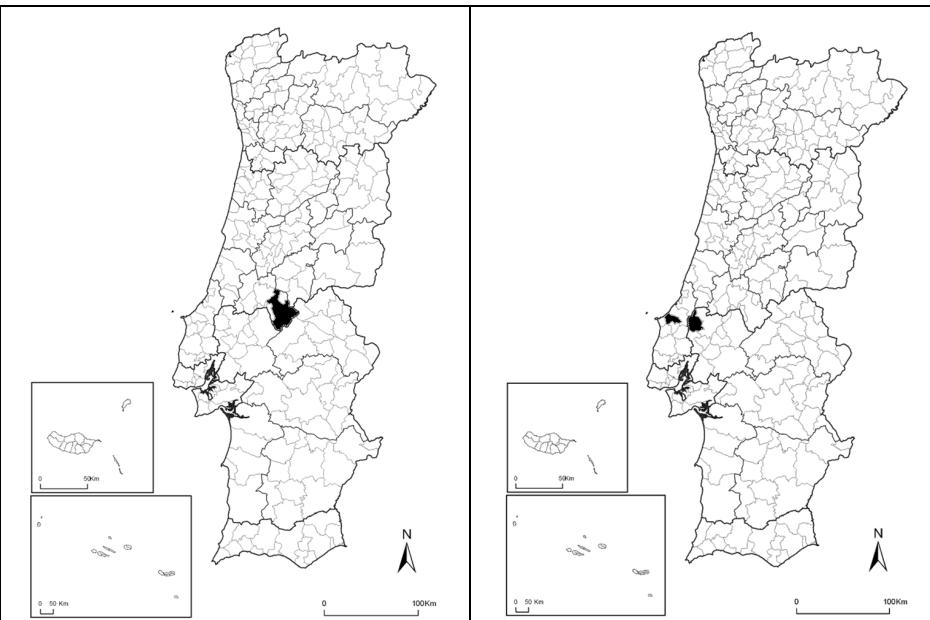


Figure 725. Distribution map of *Navicula harderi*

Figure 726. Distribution map of *Navicula hasta*

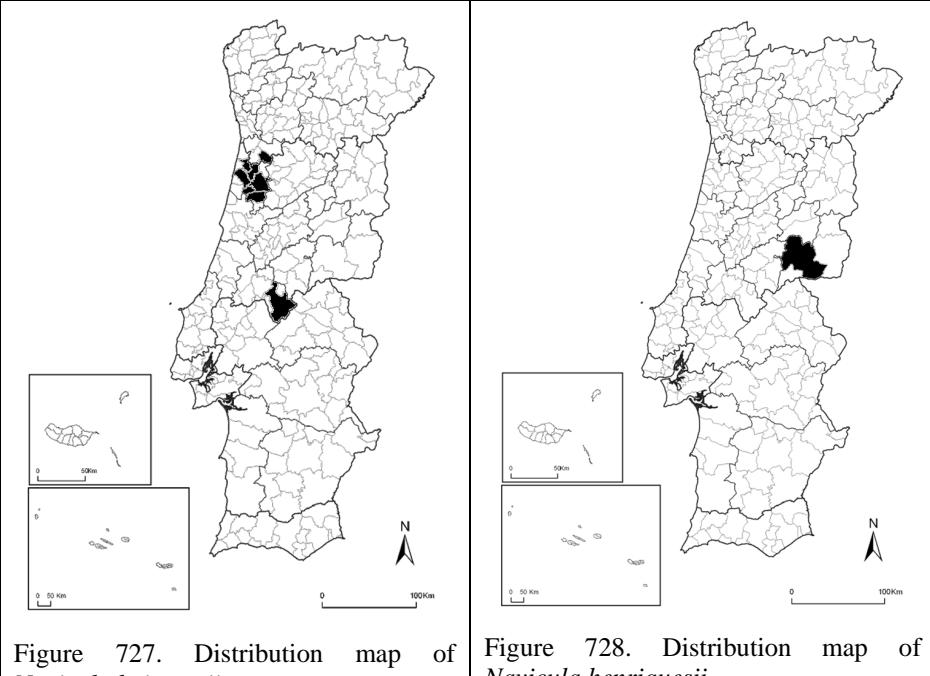


Figure 727. Distribution map of *Navicula heimansii*

Figure 728. Distribution map of *Navicula henriquesii*

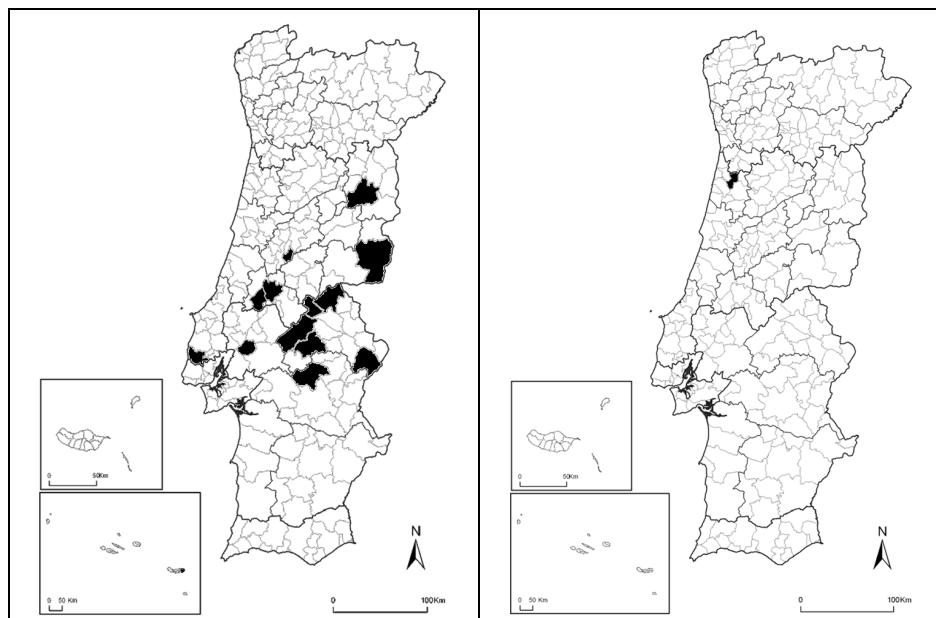


Figure 729. Distribution map of *Navicula humilis*

Figure 730. Distribution map of *Navicula imperfecta*

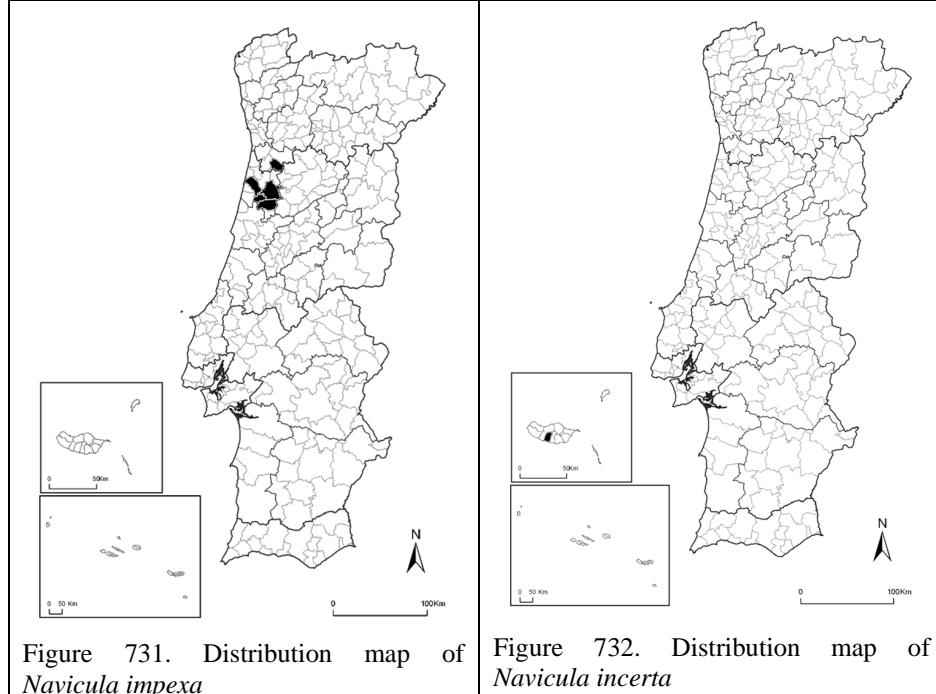


Figure 731. Distribution map of *Navicula impexa*

Figure 732. Distribution map of *Navicula incerta*

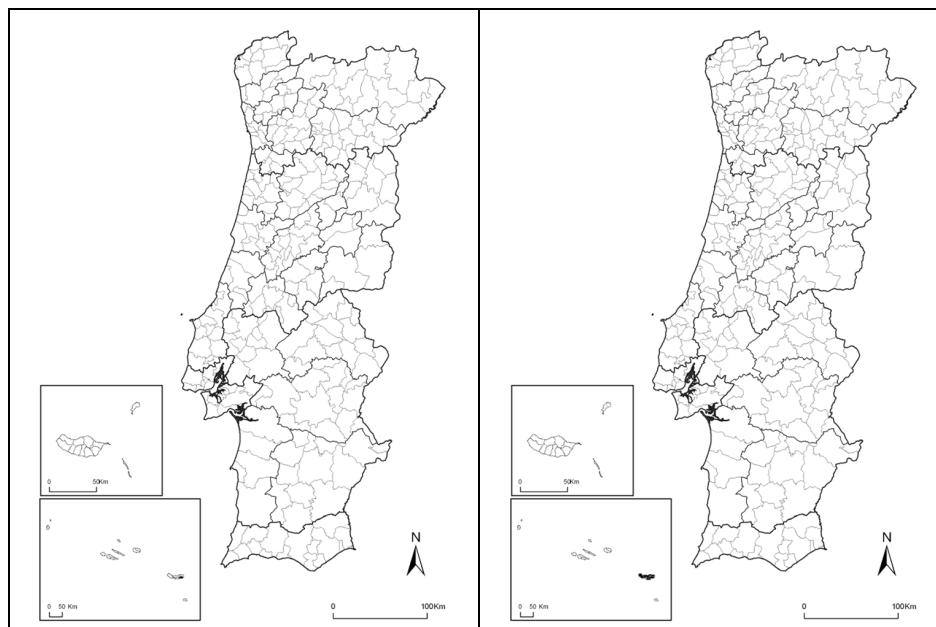


Figure 733. Distribution map of *Navicula infirma*

Figure 734. Distribution map of *Navicula infirmata*

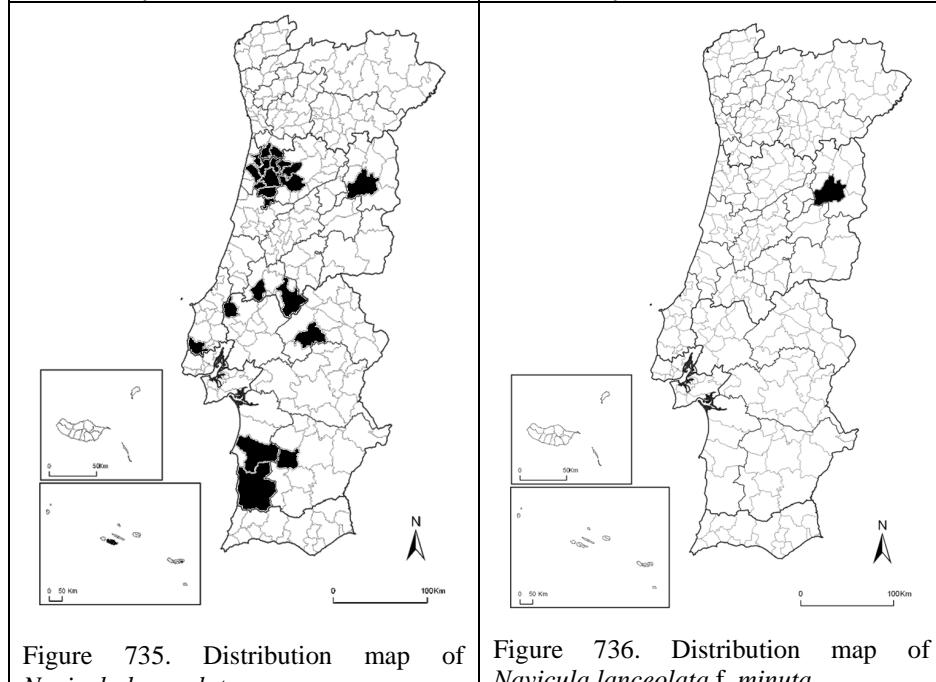
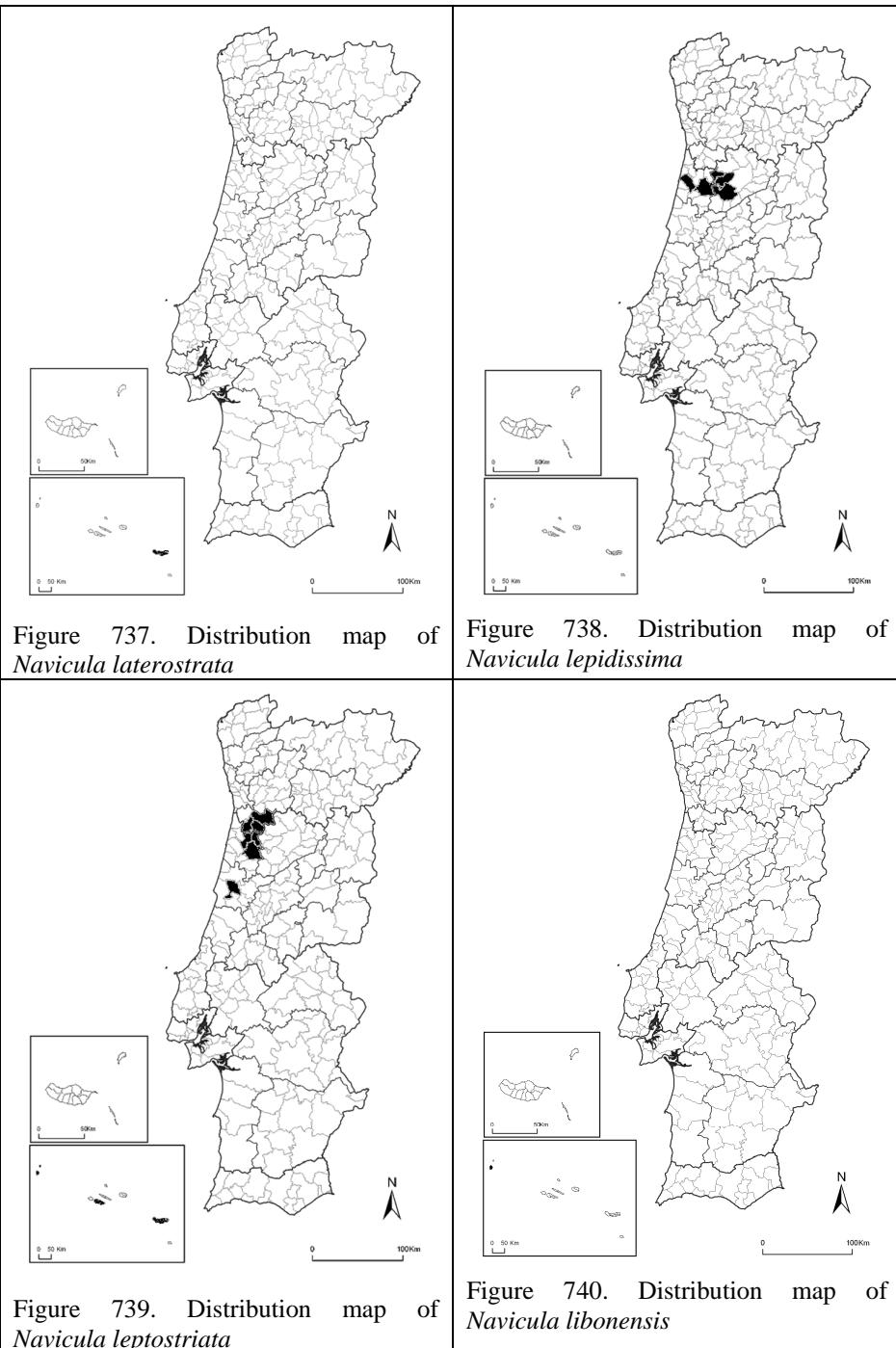


Figure 735. Distribution map of *Navicula lanceolata*

Figure 736. Distribution map of *Navicula lanceolata f. minuta*



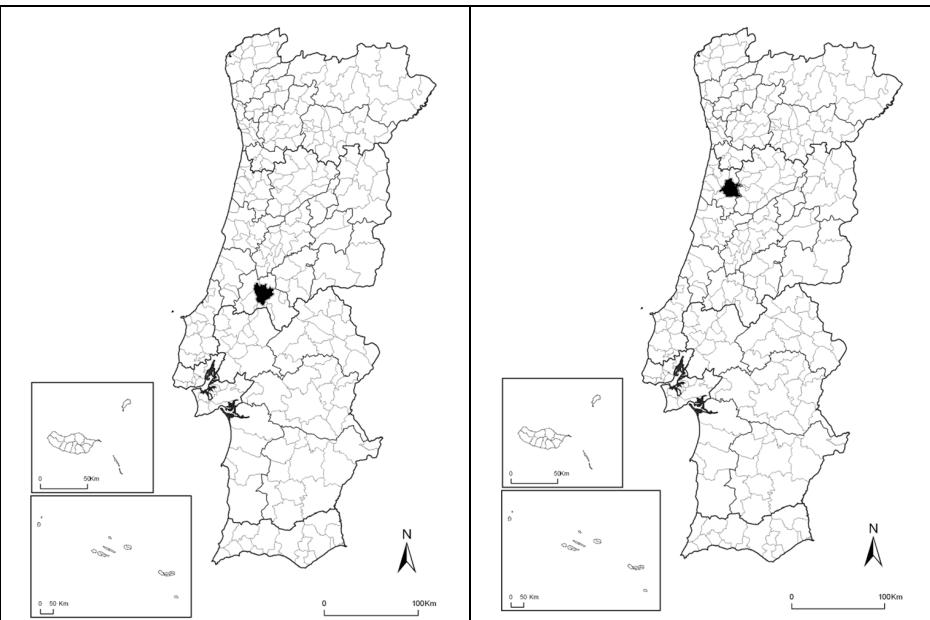


Figure 741. Distribution map of *Navicula longa*

Figure 742. Distribution map of *Navicula longicephala*

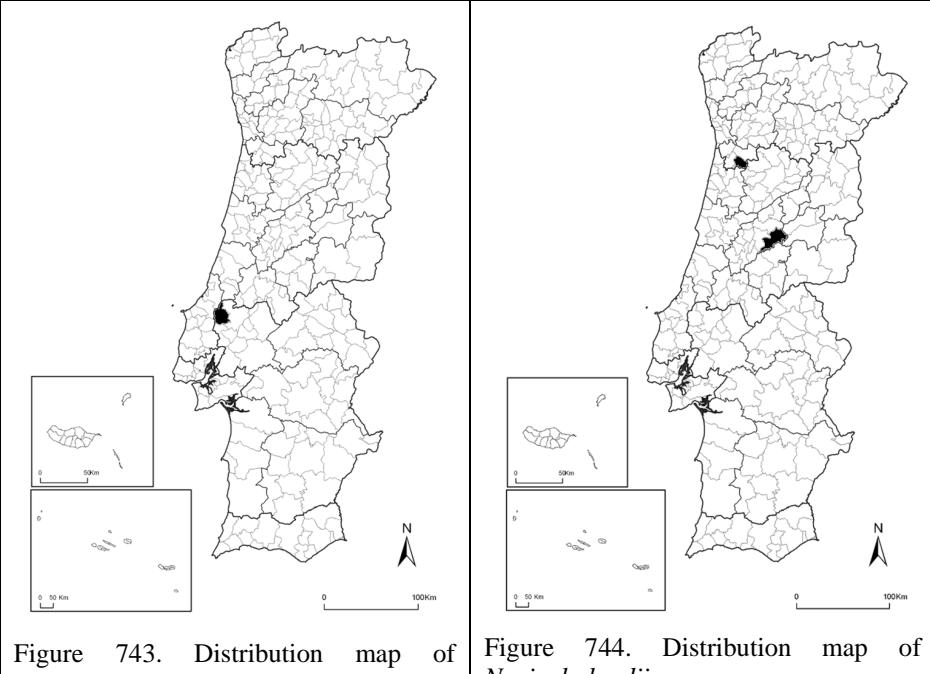
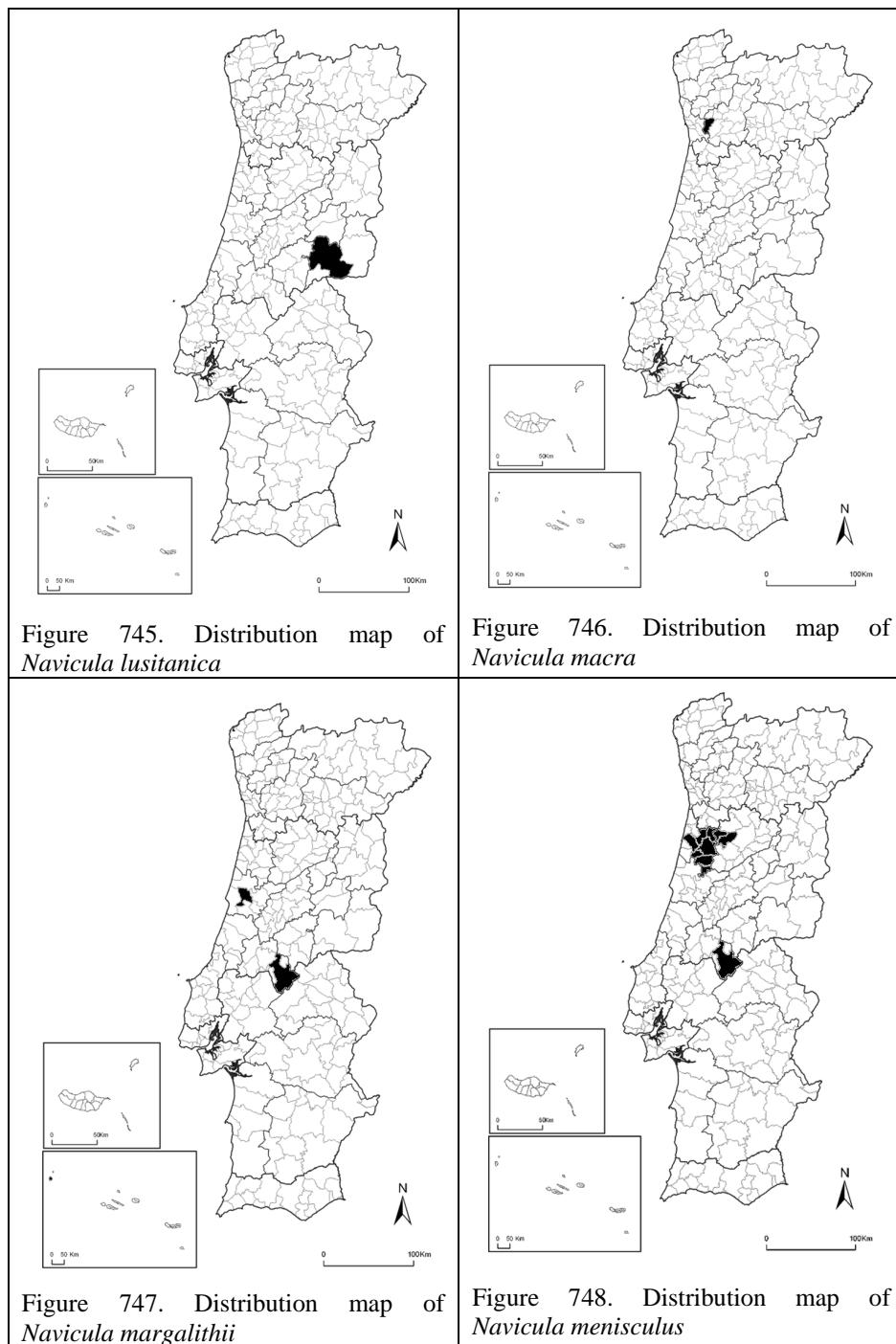
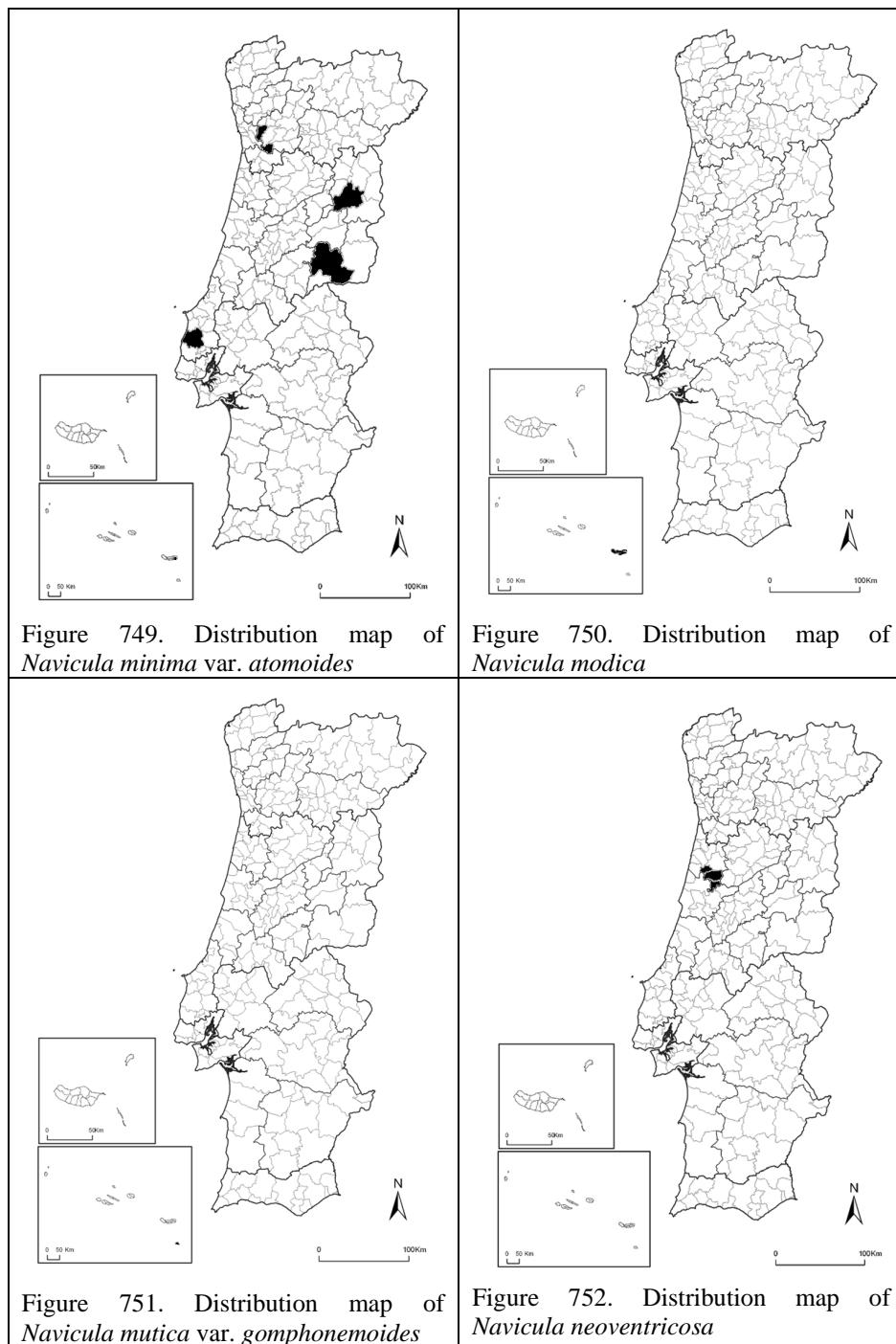


Figure 743. Distribution map of *Navicula lucidula*

Figure 744. Distribution map of *Navicula lundii*





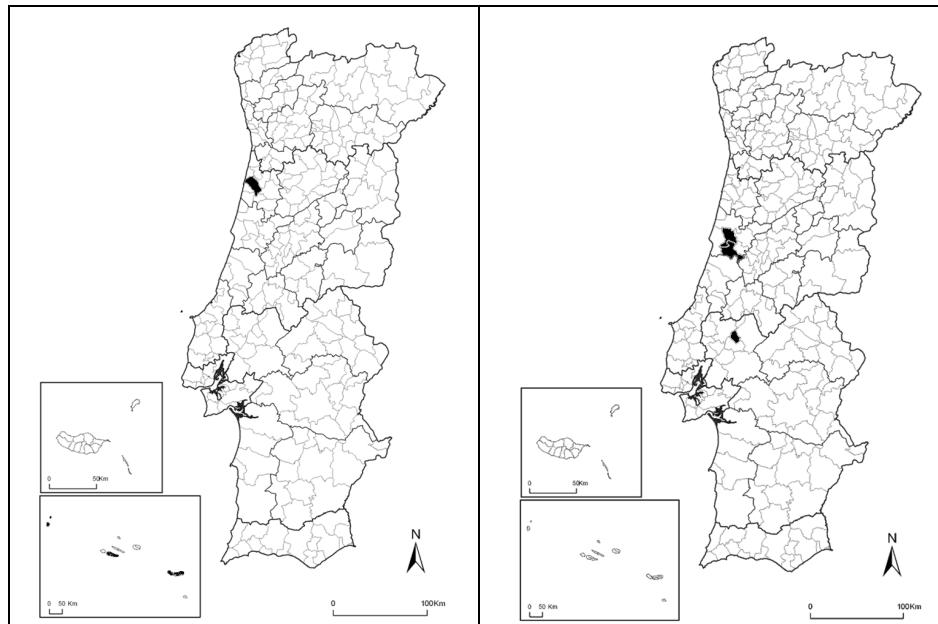


Figure 753. Distribution map of *Navicula notha*

Figure 754. Distribution map of *Navicula oblonga*

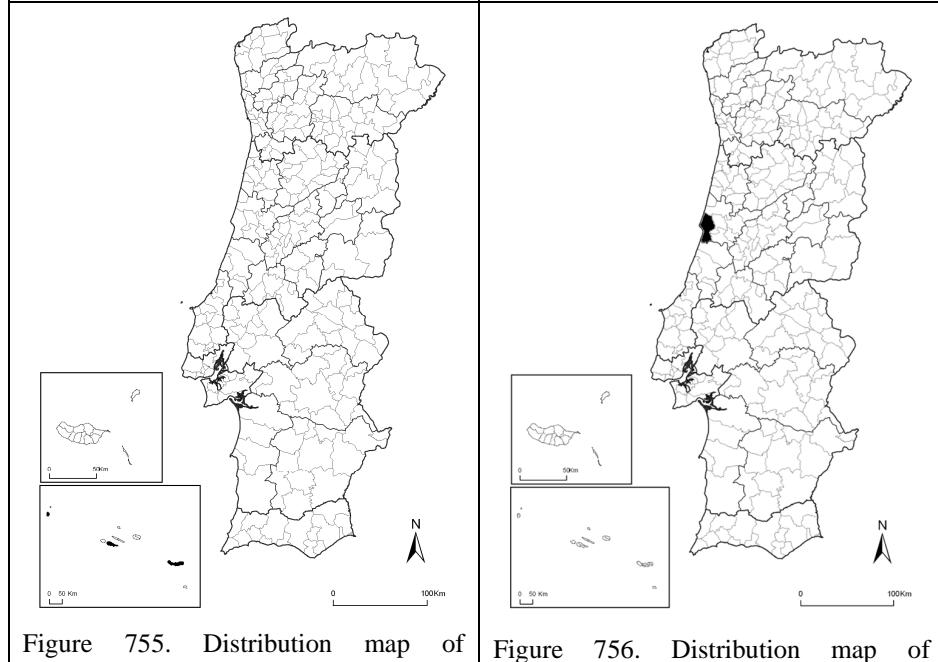
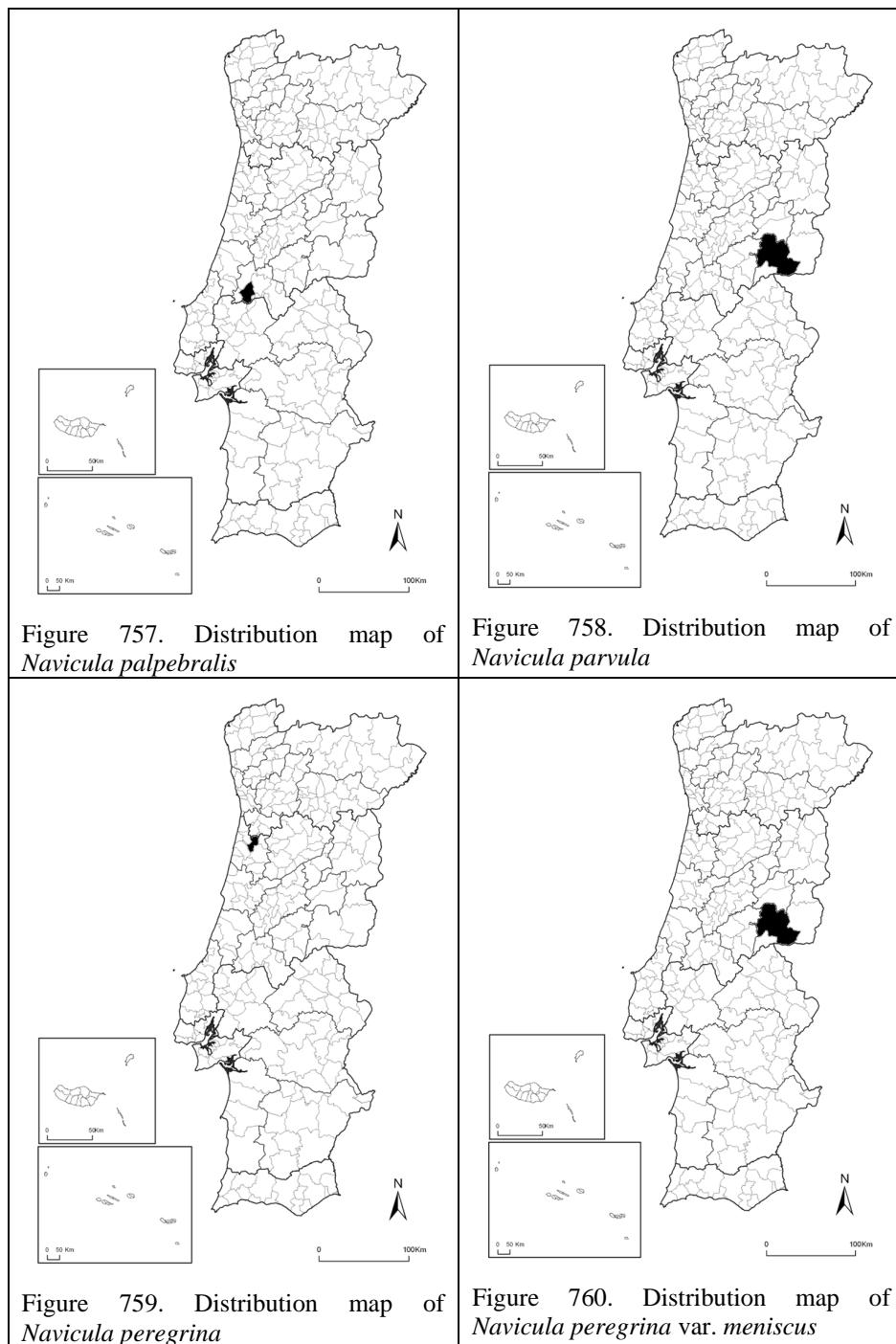


Figure 755. Distribution map of *Navicula obsoleta*

Figure 756. Distribution map of *Navicula oligotraphenta*



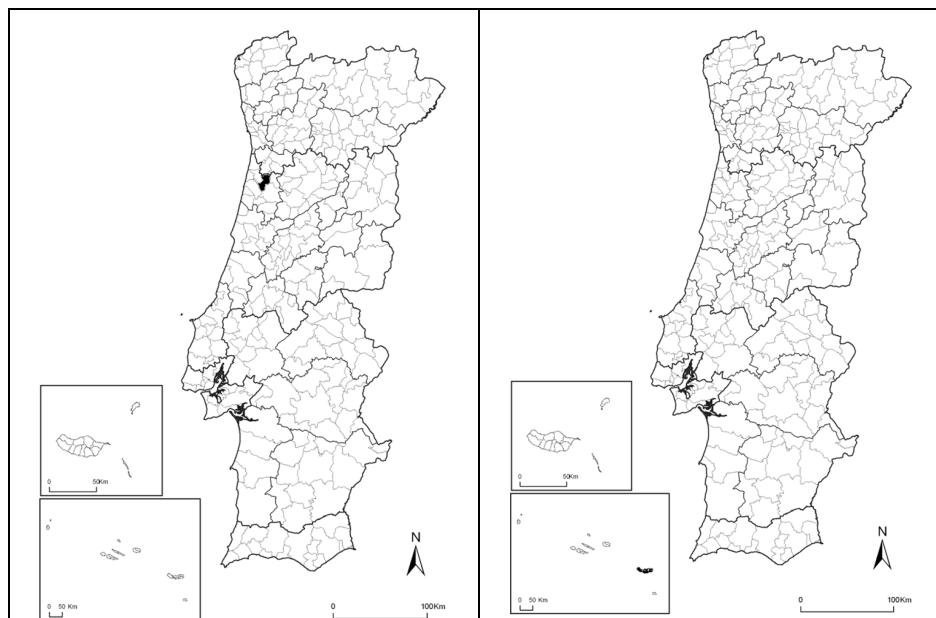


Figure 761. Distribution map of *Navicula persica*

Figure 762. Distribution map of *Navicula peterseni*

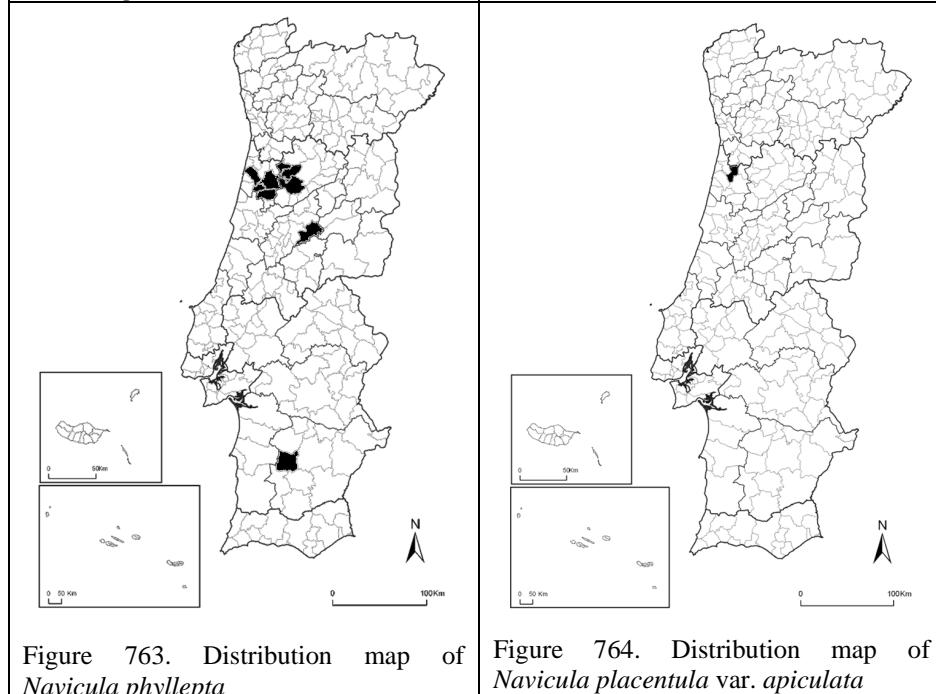


Figure 763. Distribution map of *Navicula phyllepta*

Figure 764. Distribution map of *Navicula placentula* var. *apiculata*

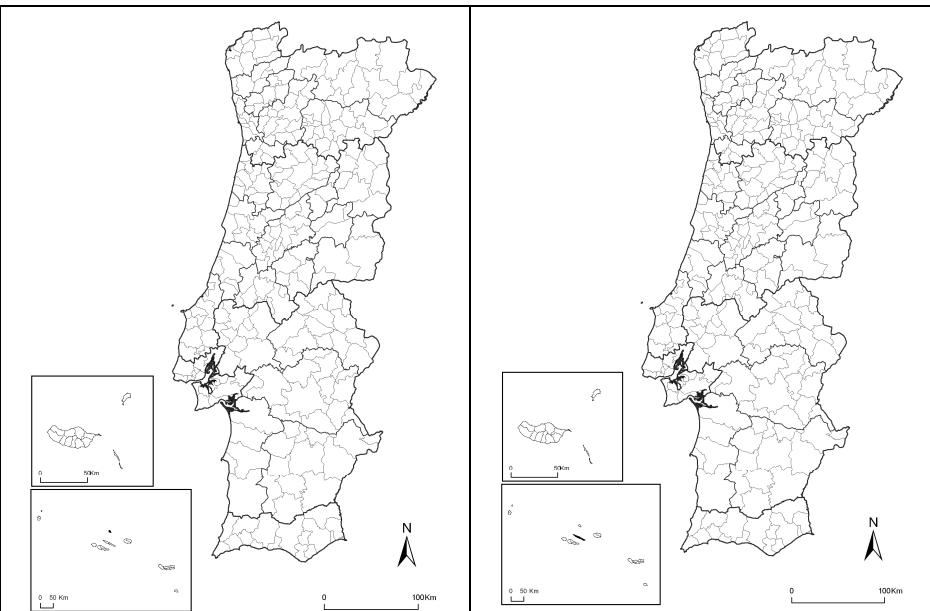


Figure 765. Distribution map of *Navicula pseudonivalis*

Figure 766. Distribution map of *Navicula pupula* var. *genuina*

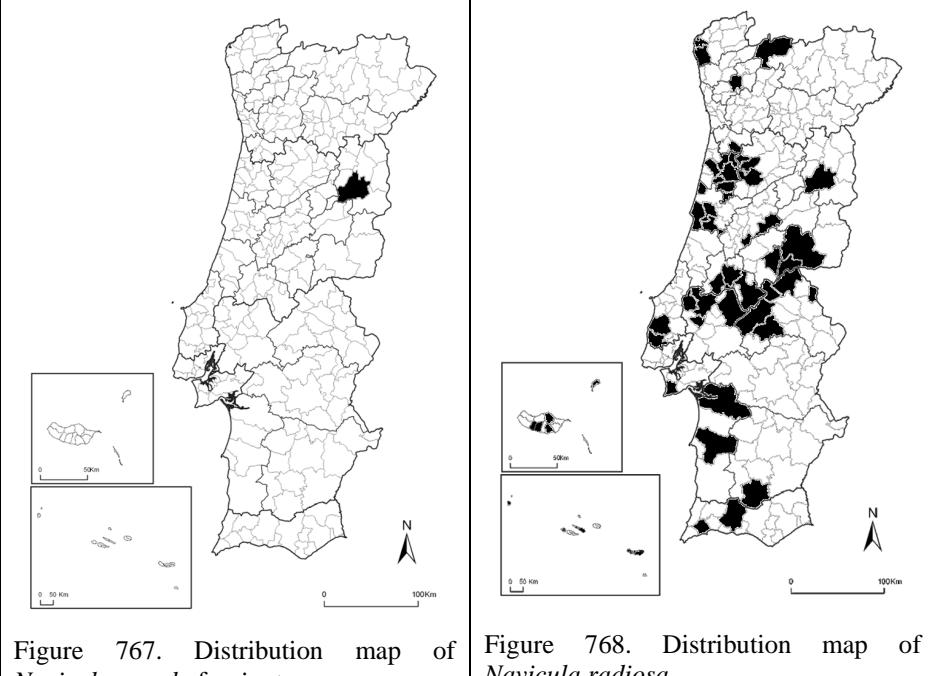


Figure 767. Distribution map of *Navicula pupula* f. *minuta*

Figure 768. Distribution map of *Navicula radiososa*

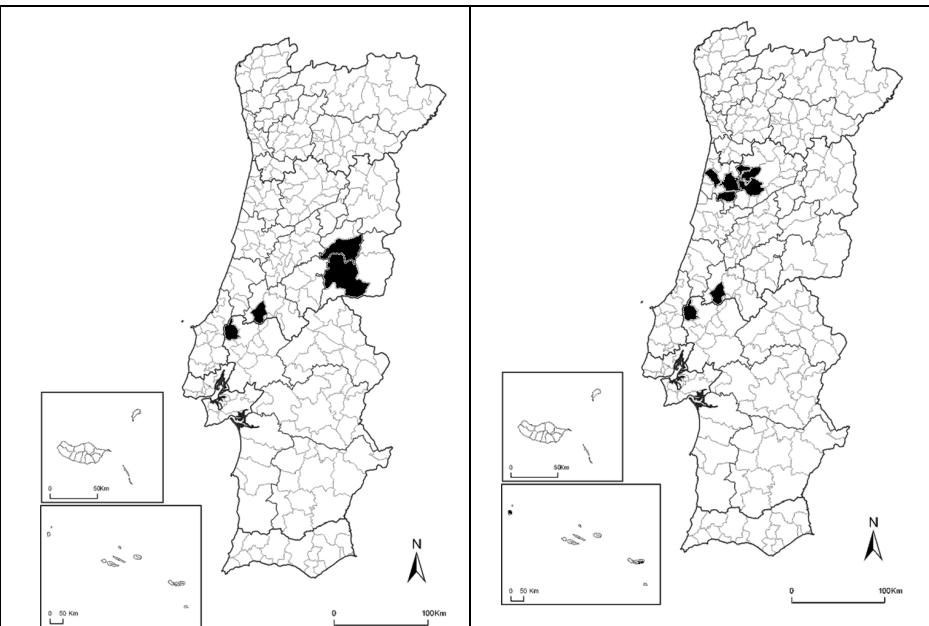


Figure 769. Distribution map of *Navicula radiososa* var. *acuta*

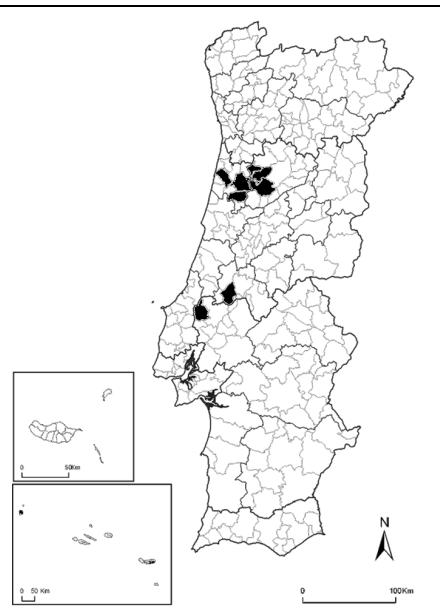


Figure 770. Distribution map of *Navicula radiososa* var. *tenella*

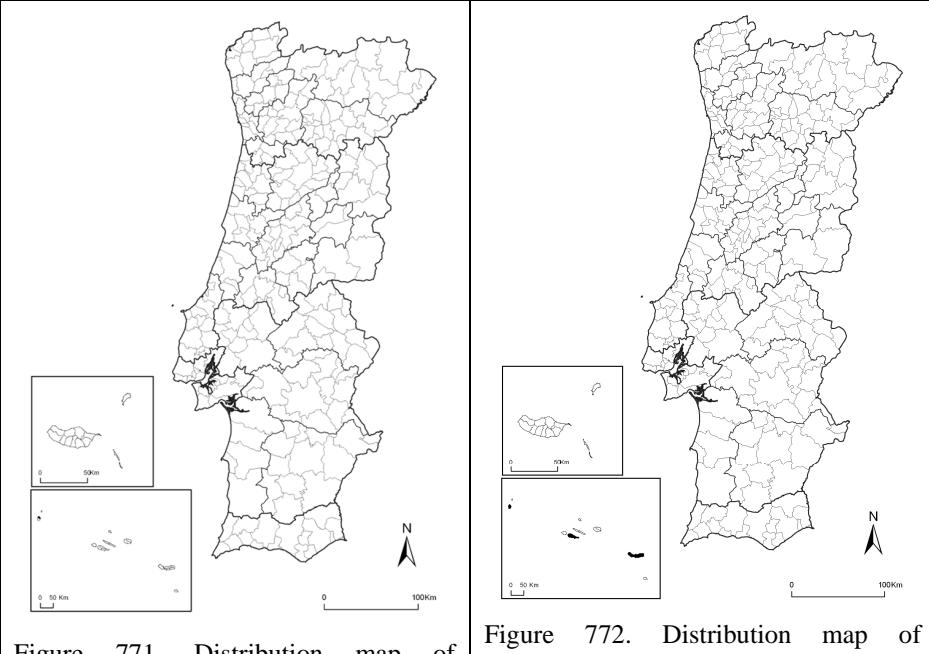


Figure 771. Distribution map of *Navicula radiososa* f. *intermedia*

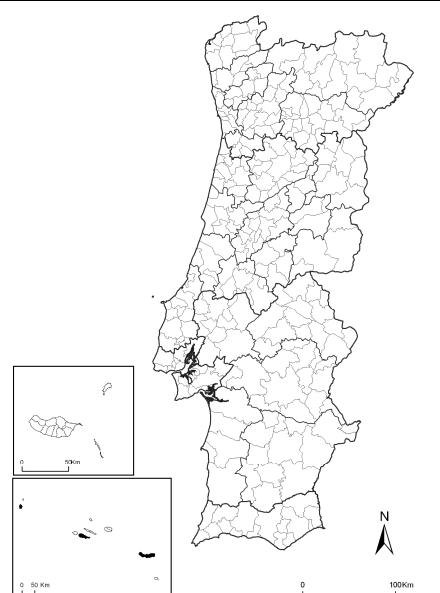


Figure 772. Distribution map of *Navicula radiosafallax*

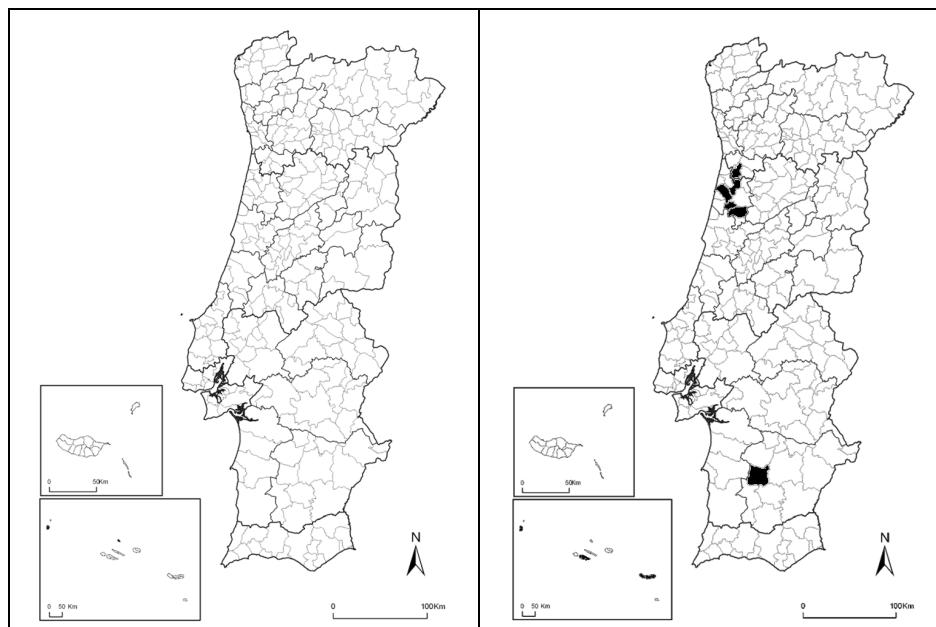


Figure 773. Distribution map of *Navicula recens*

Figure 774. Distribution map of *Navicula reichardtiana*

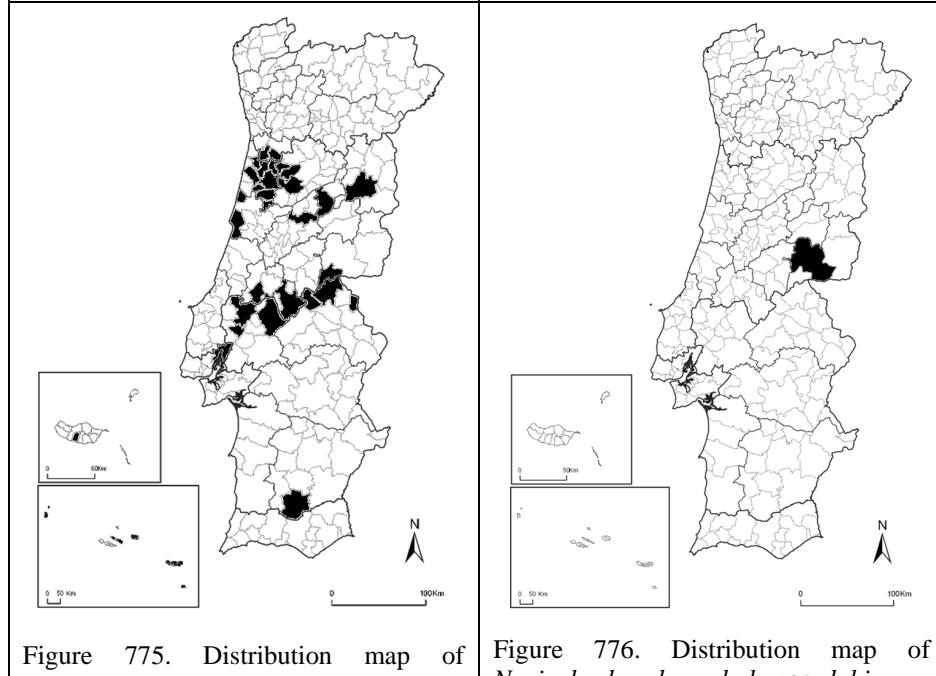


Figure 775. Distribution map of *Navicula rhynchocephala*

Figure 776. Distribution map of *Navicula rhynchocephala* var. *dubia*

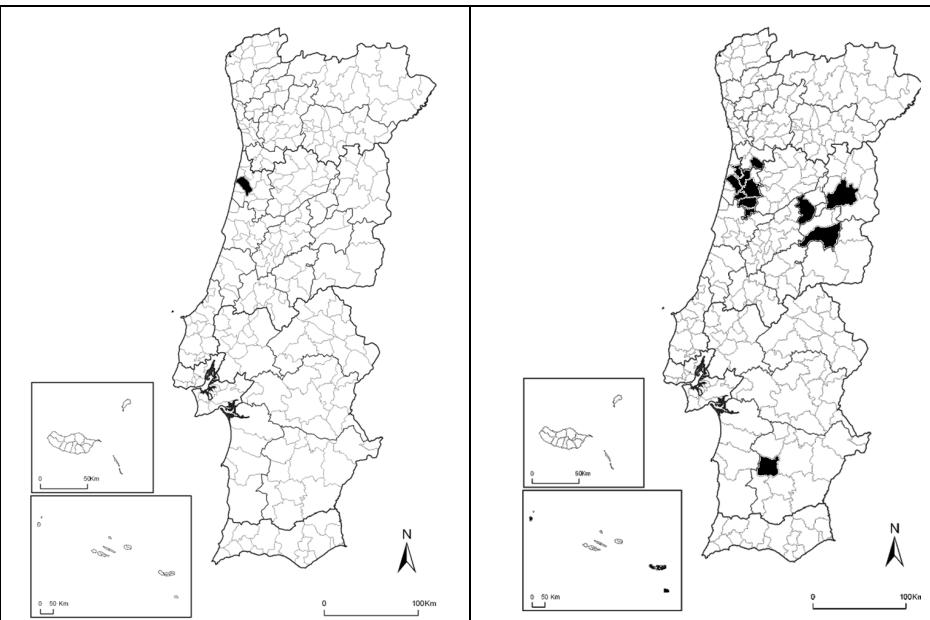


Figure 777. Distribution map of *Navicula rhynchocephala* var. *elongata*

Figure 778. Distribution map of *Navicula rostellata*

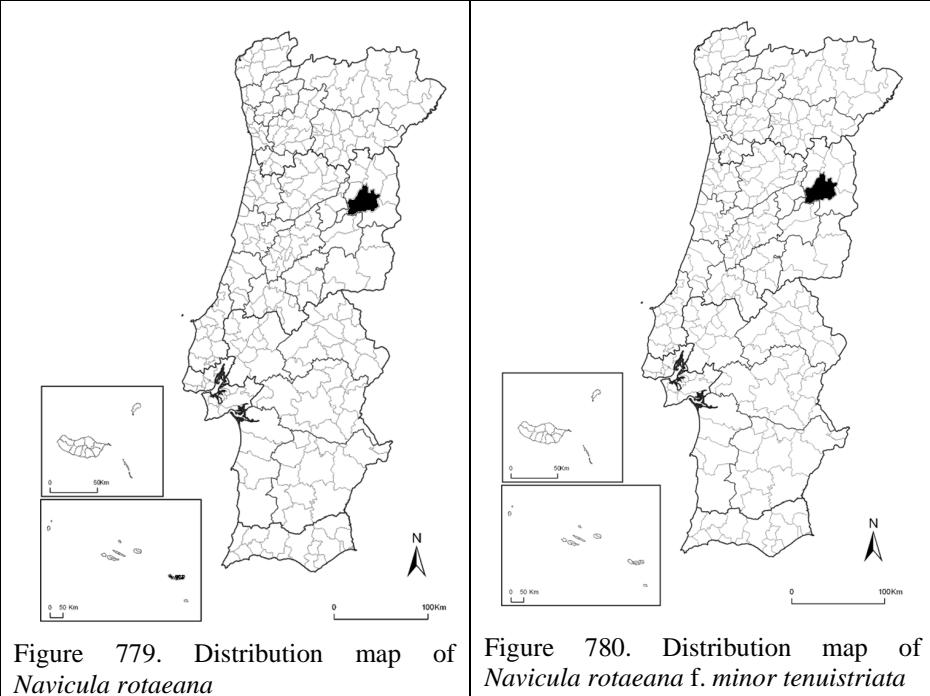
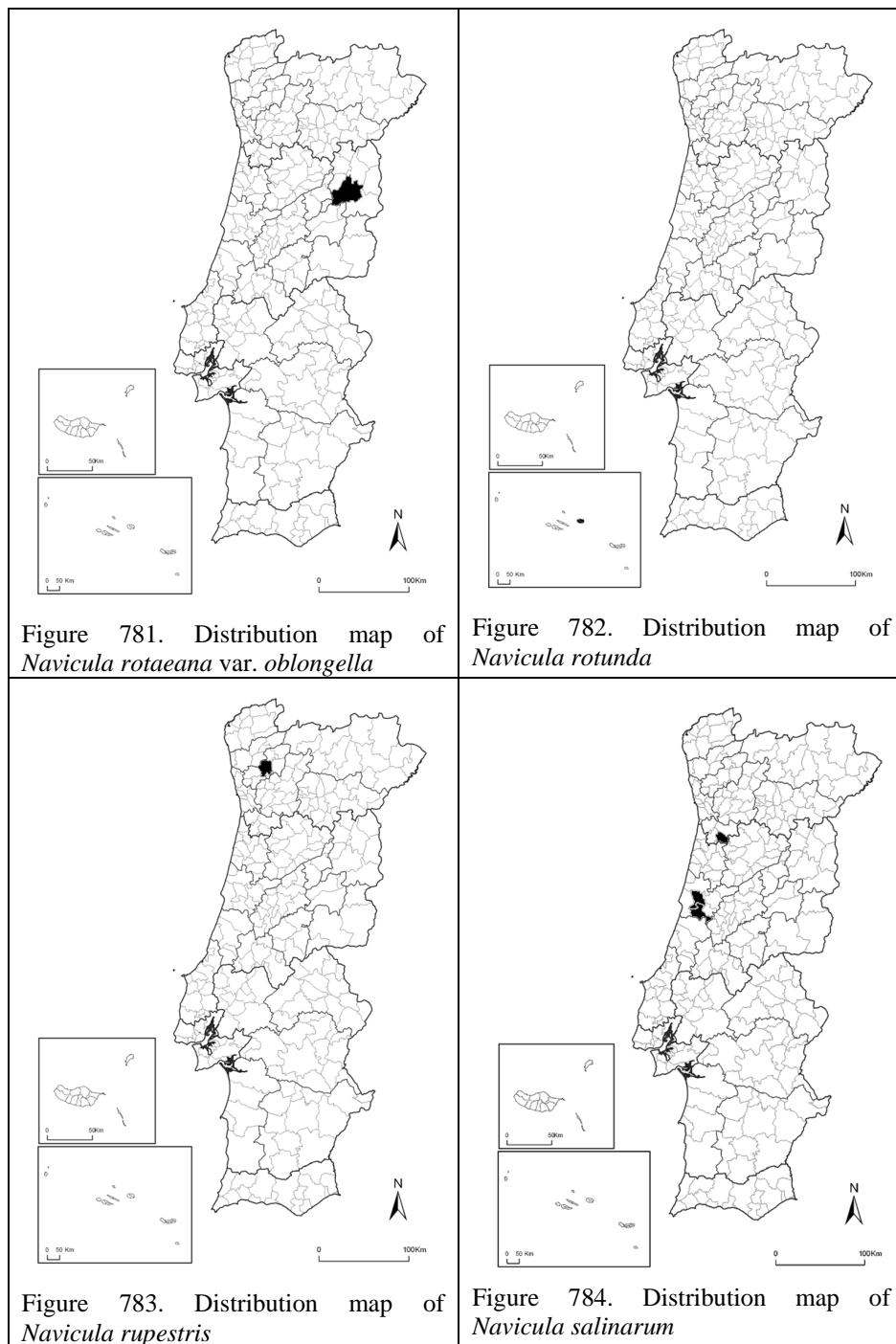


Figure 779. Distribution map of *Navicula rotaeana*

Figure 780. Distribution map of *Navicula rotaeana* f. *minor tenuistriata*



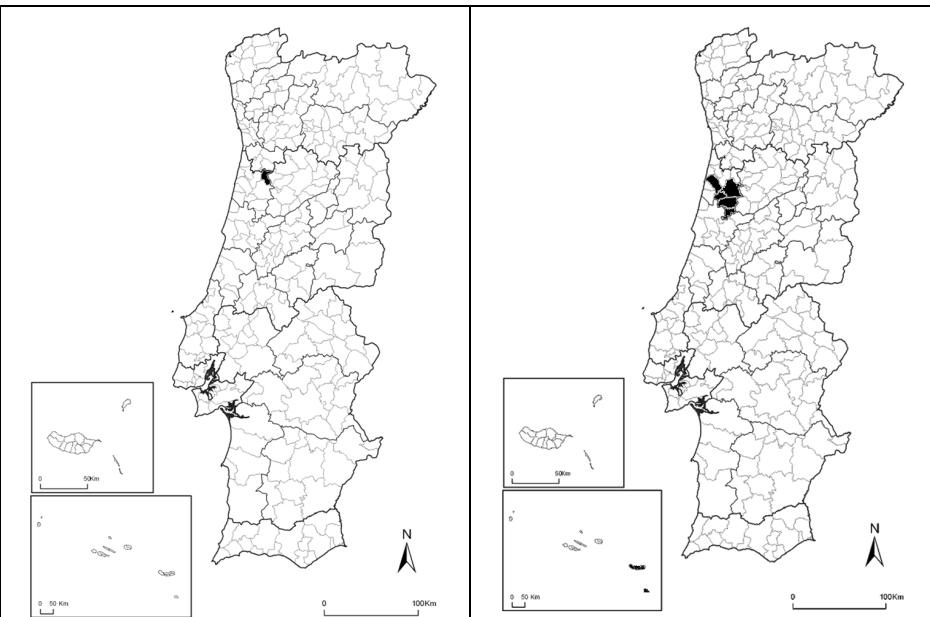


Figure 785. Distribution map of *Navicula salinarum* var. *rostrata*

Figure 786. Distribution map of *Navicula schroeteri*

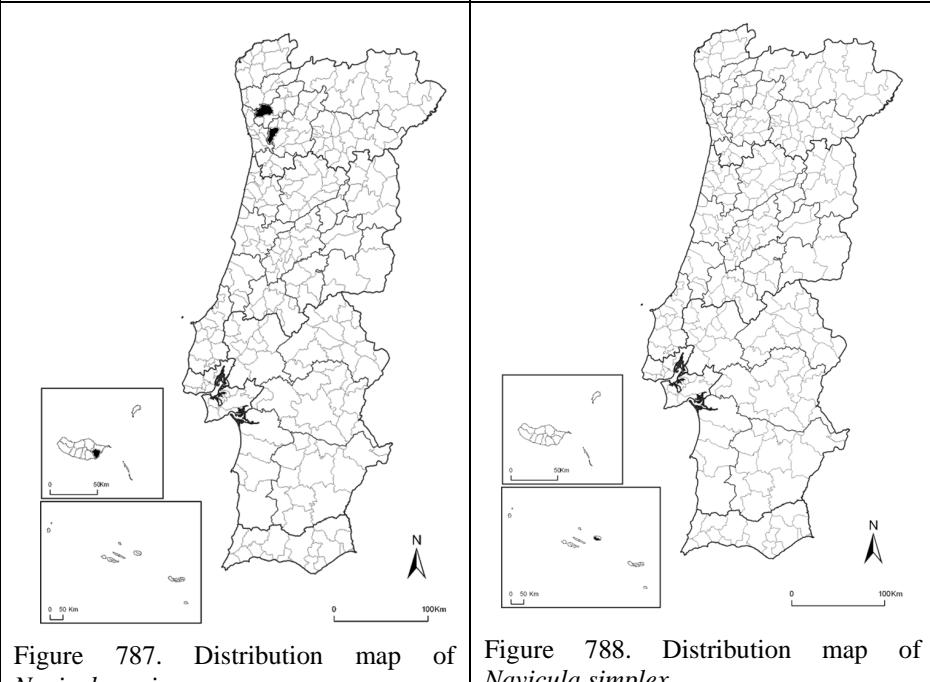
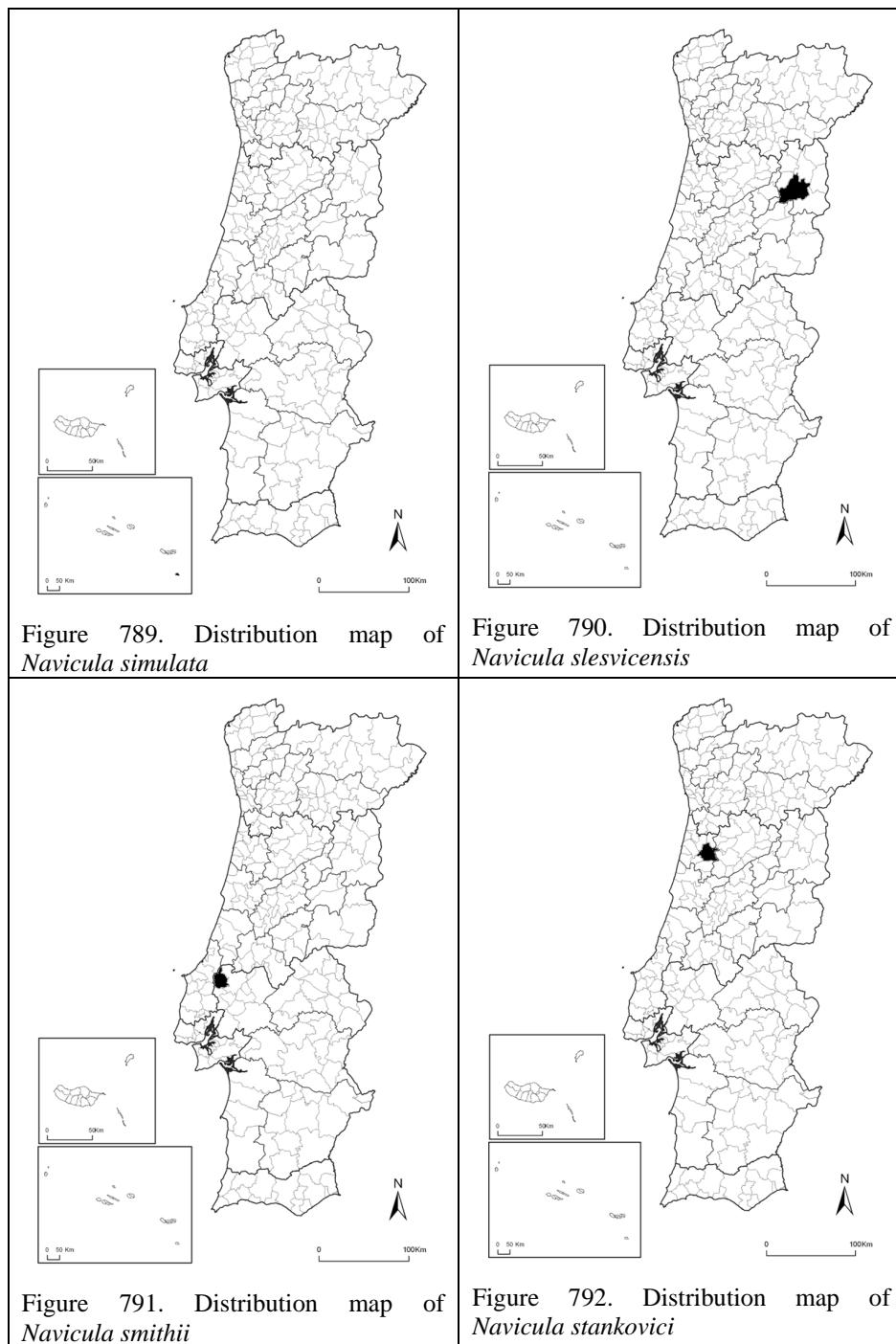
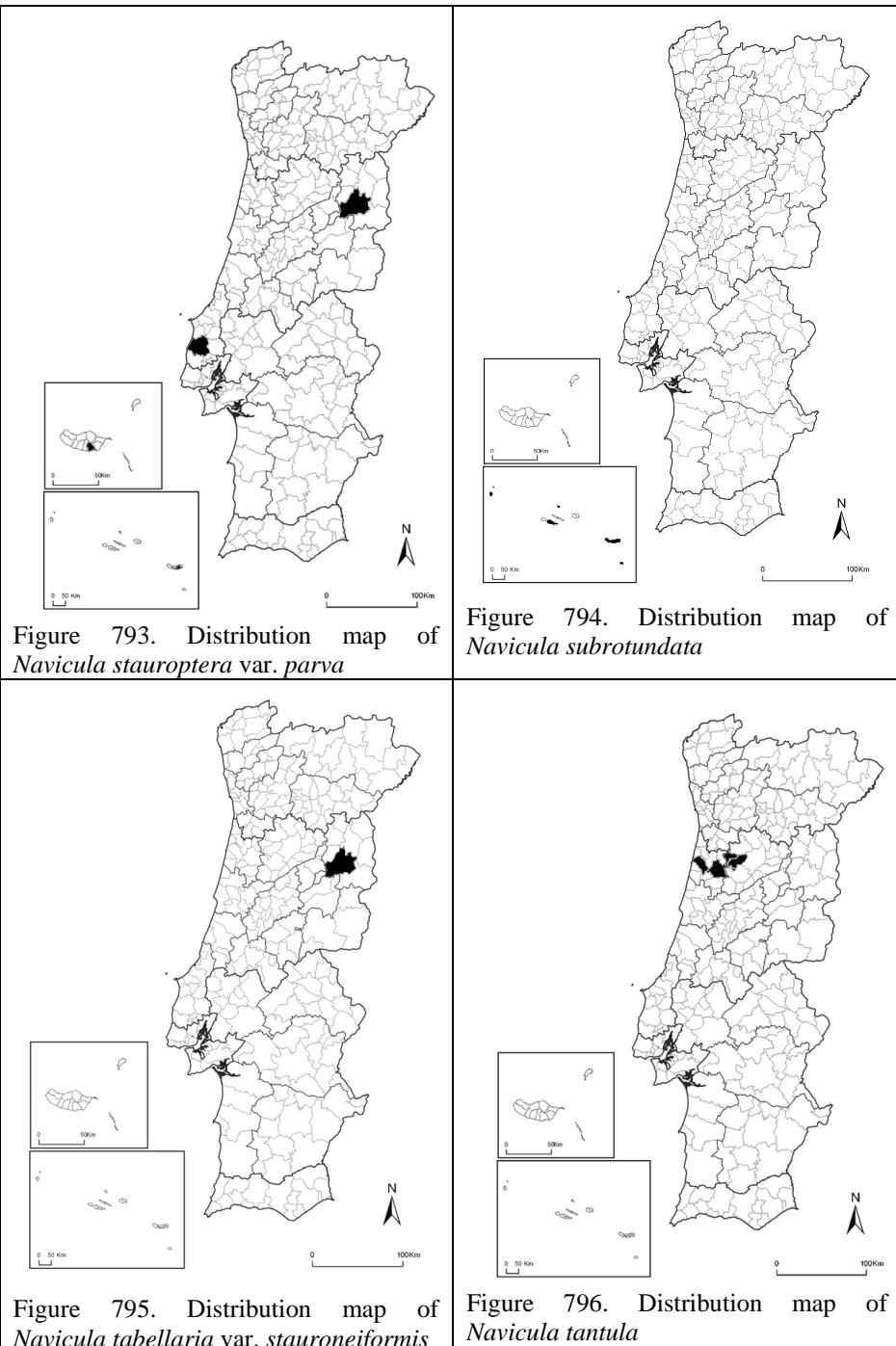


Figure 787. Distribution map of *Navicula serians*

Figure 788. Distribution map of *Navicula simplex*





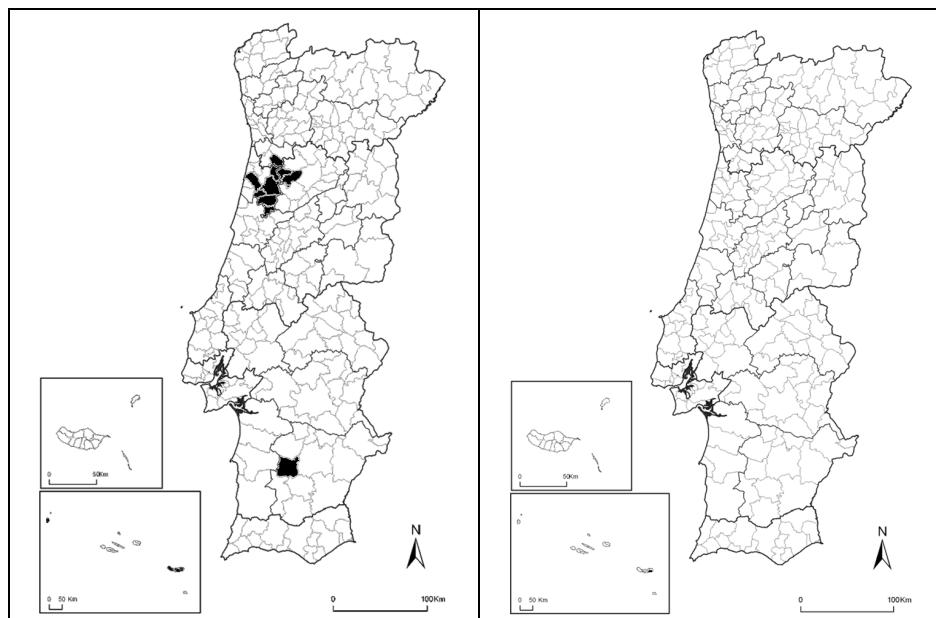


Figure 797. Distribution map of *Navicula tenelloides*

Figure 798. Distribution map of *Navicula termes*

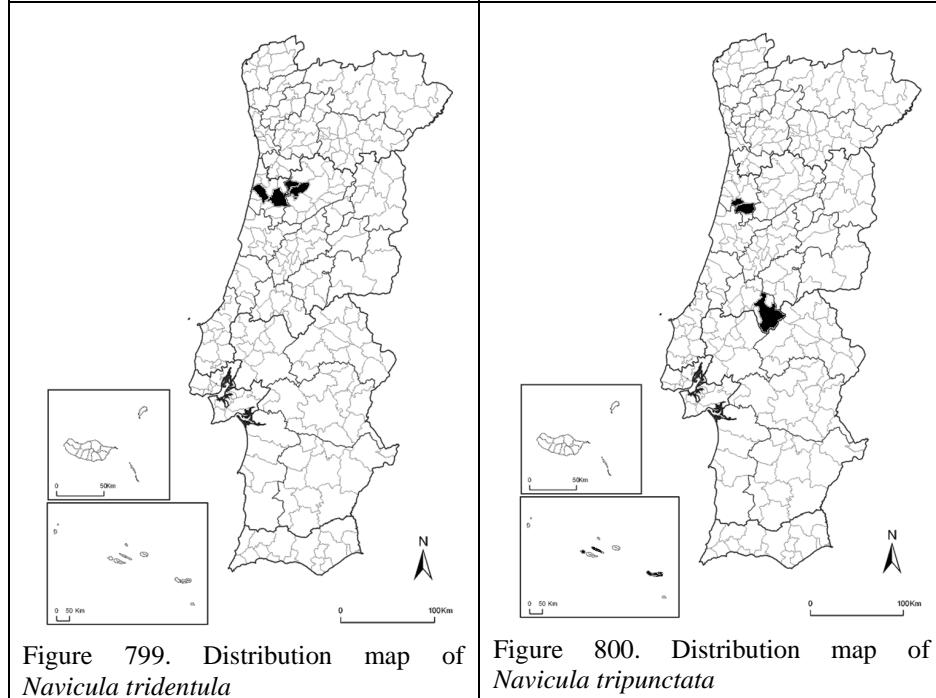


Figure 799. Distribution map of *Navicula tridentula*

Figure 800. Distribution map of *Navicula tripunctata*

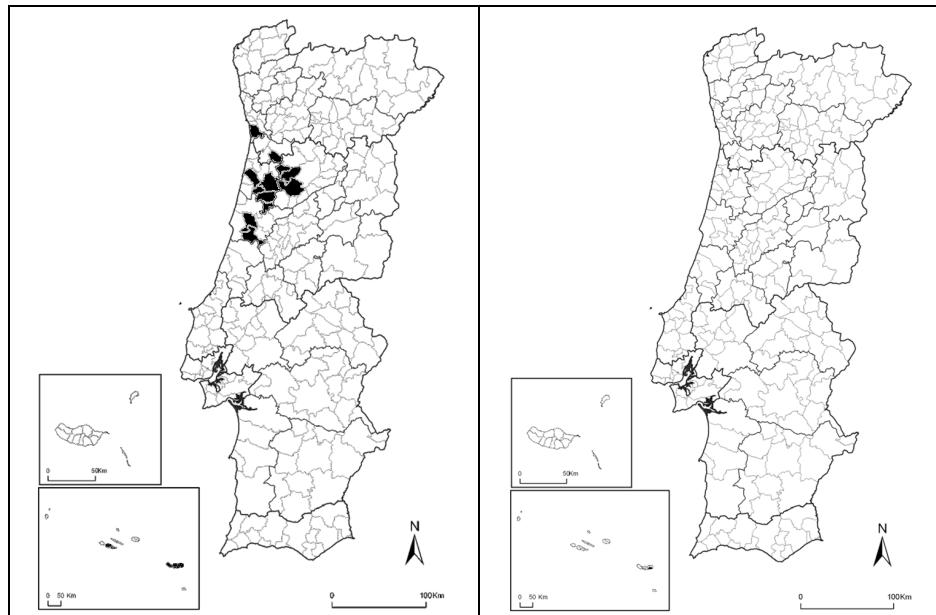


Figure 801. Distribution map of *Navicula trivialis*

Figure 802. Distribution map of *Navicula tumida*

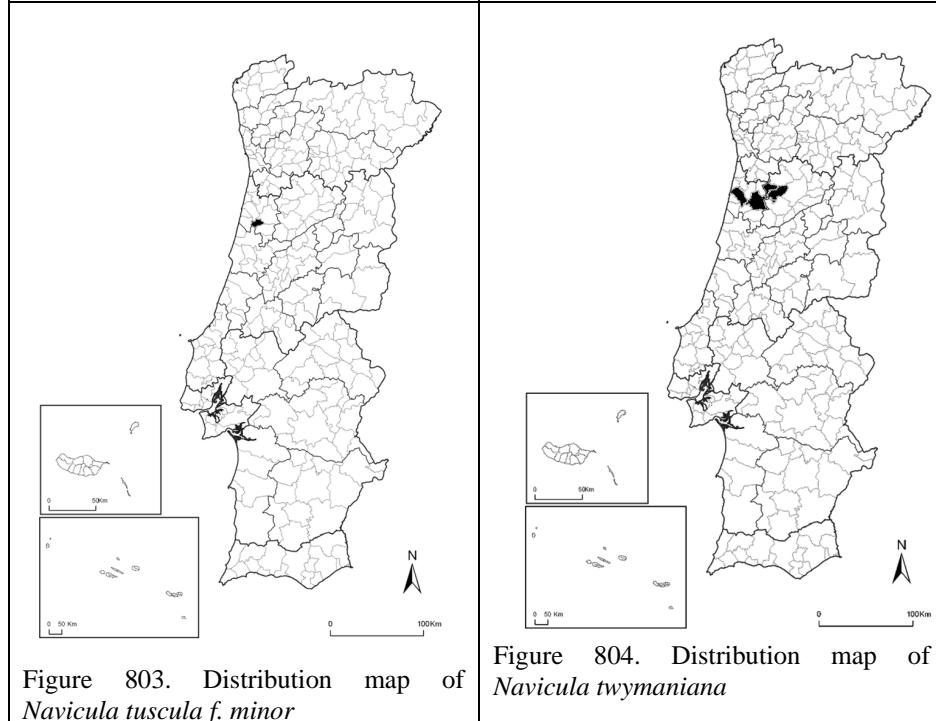
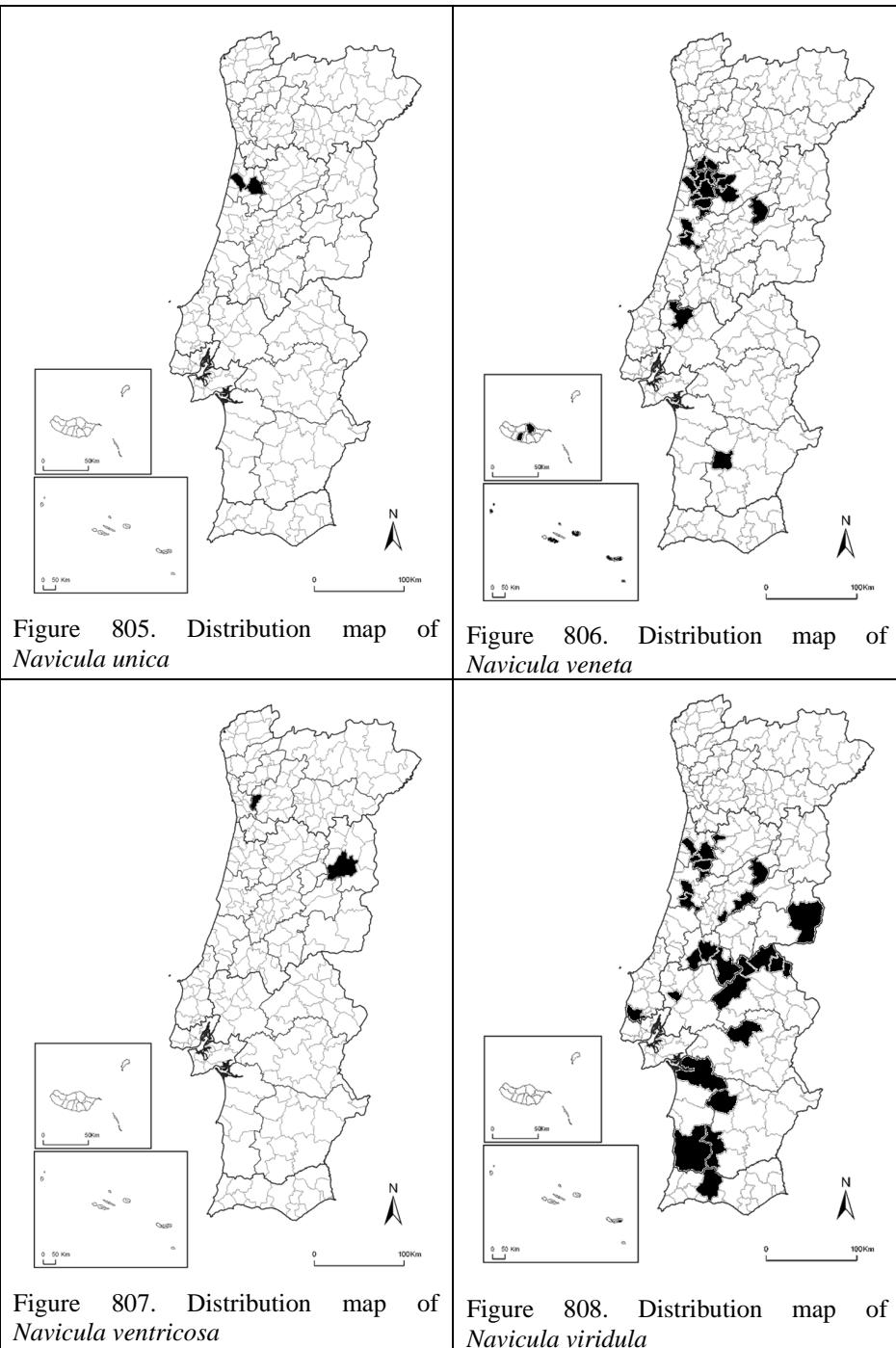
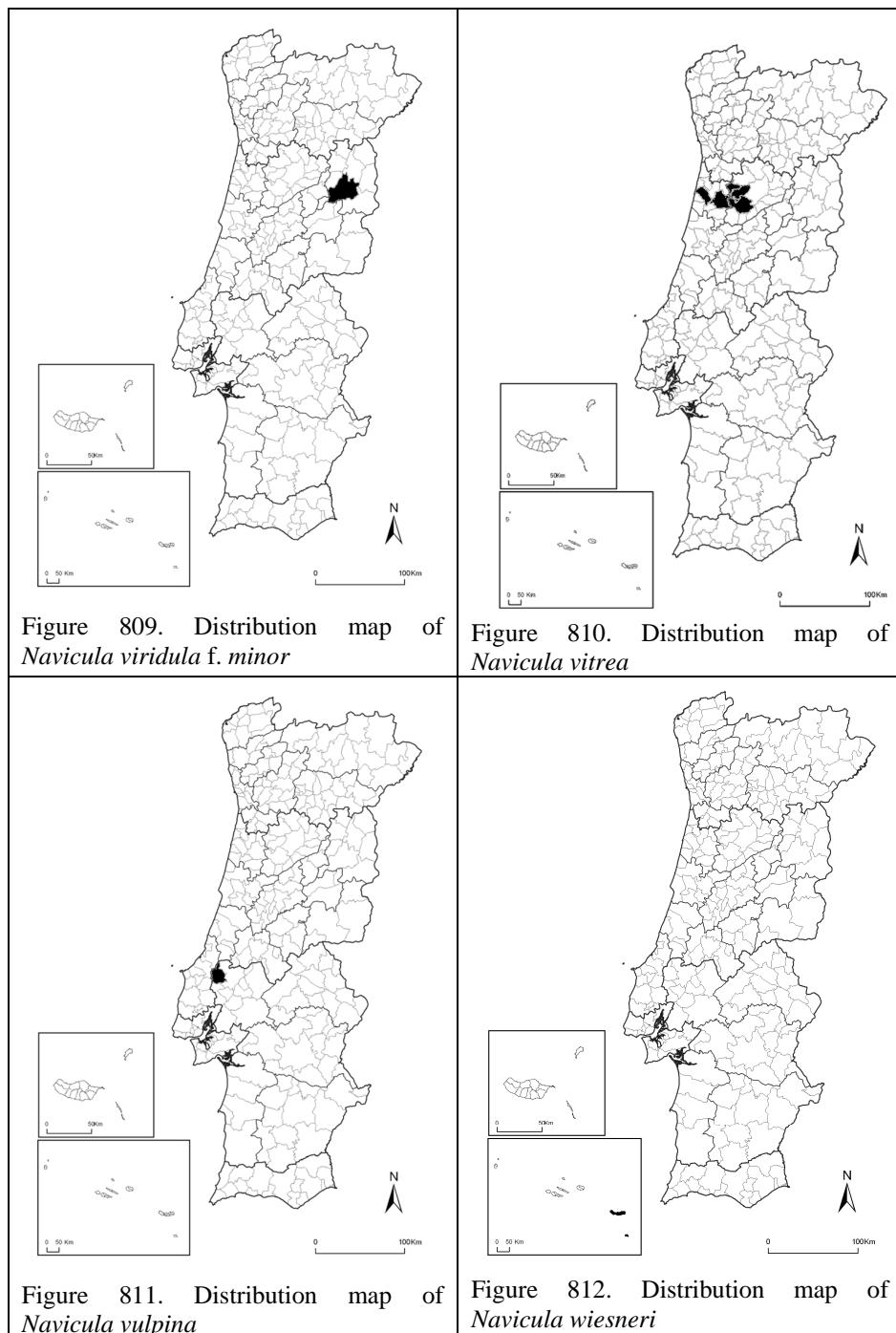


Figure 803. Distribution map of *Navicula tusculoides f. minor*

Figure 804. Distribution map of *Navicula twymaniana*





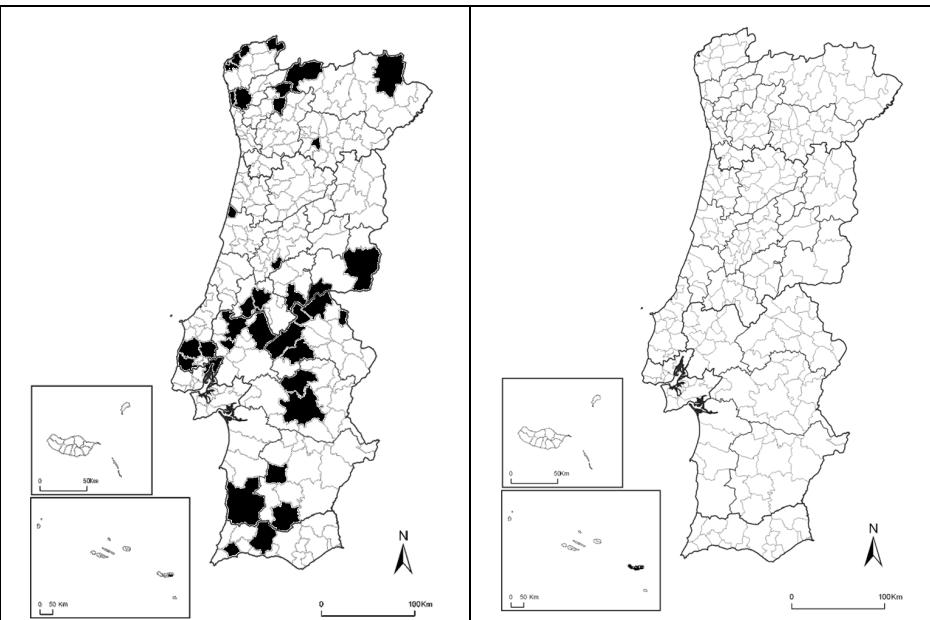


Figure 813. Distribution map of *Navicula* sp.

Figure 814. Distribution map of *Naviculadicta digitulus*

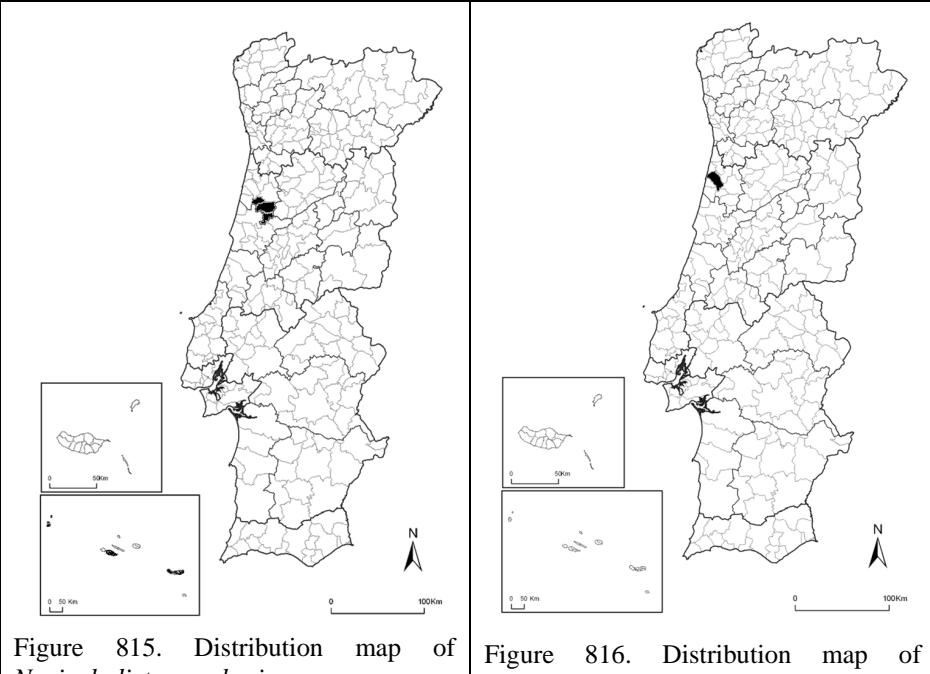


Figure 815. Distribution map of *Naviculadicta vaucheriae*

Figure 816. Distribution map of *Naviculadicta vitabunda*

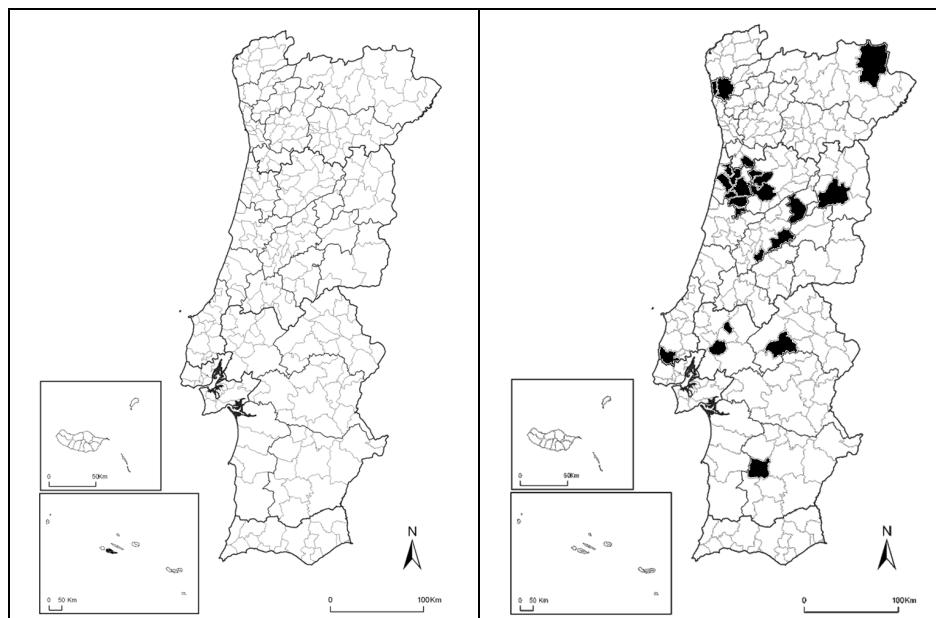


Figure 817. Distribution map of *Navicymbula pusilla*

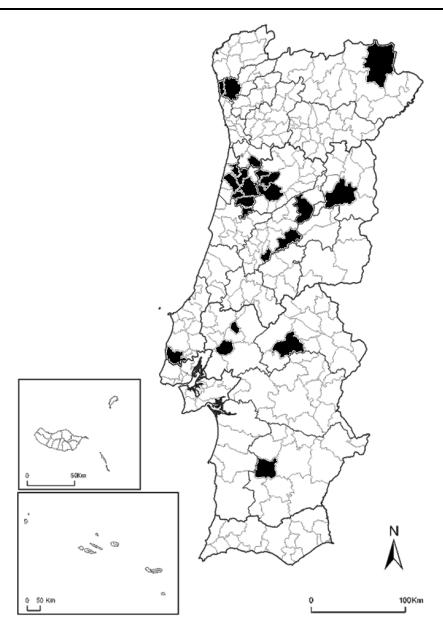


Figure 818. Distribution map of *Neidium affine*

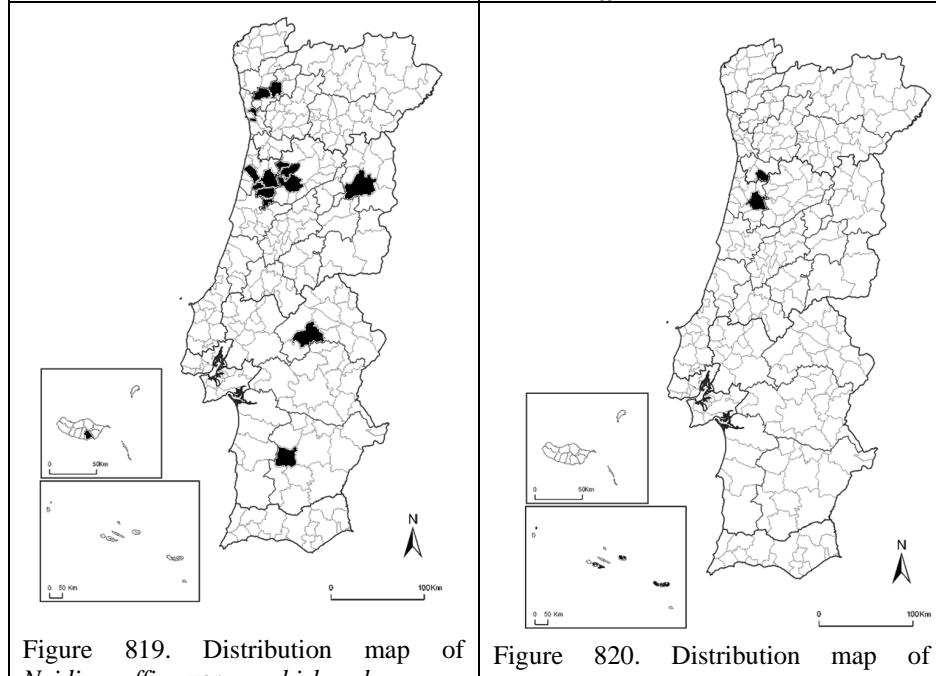
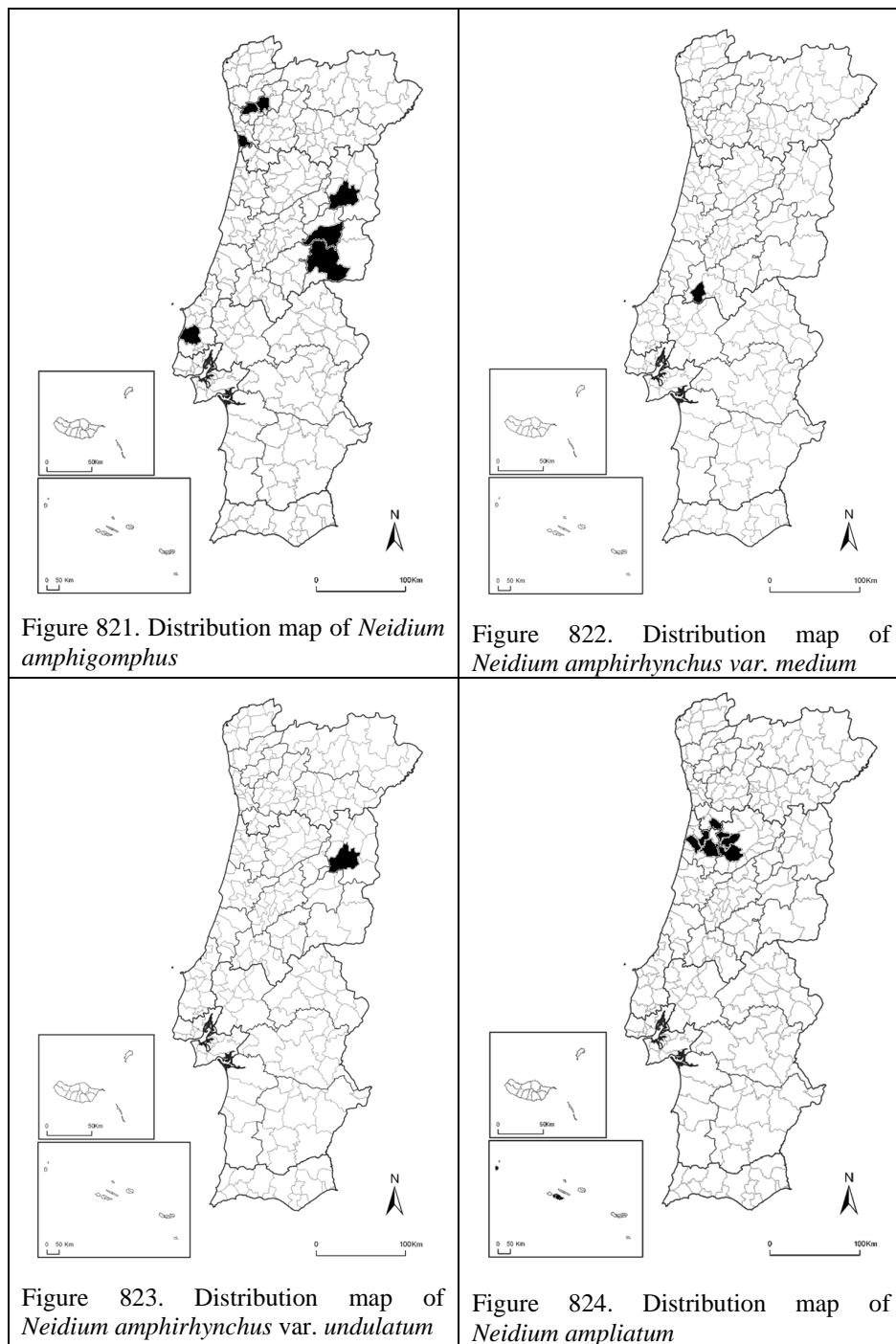


Figure 819. Distribution map of *Neidium affine* var. *amphirhynchus*

Figure 820. Distribution map of *Neidium alpinum*



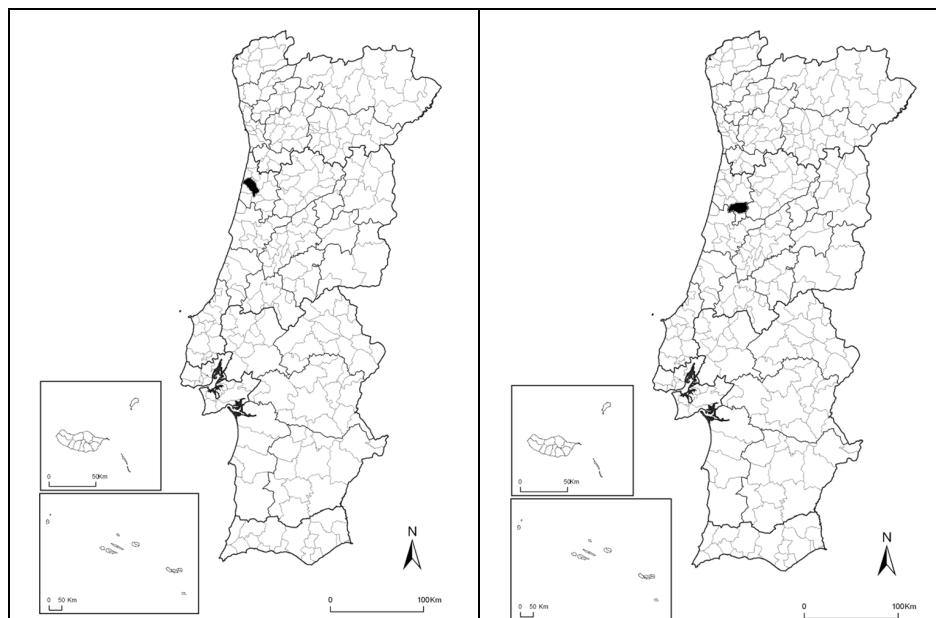


Figure 825. Distribution map of *Neidium apiculatum*

Figure 826. Distribution map of *Neidium binodis*

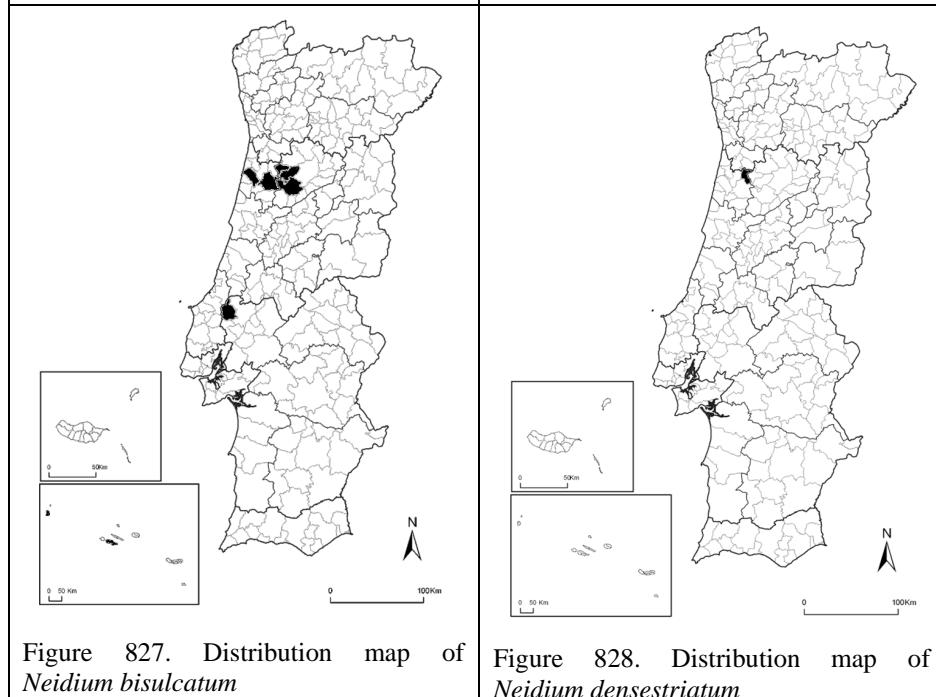
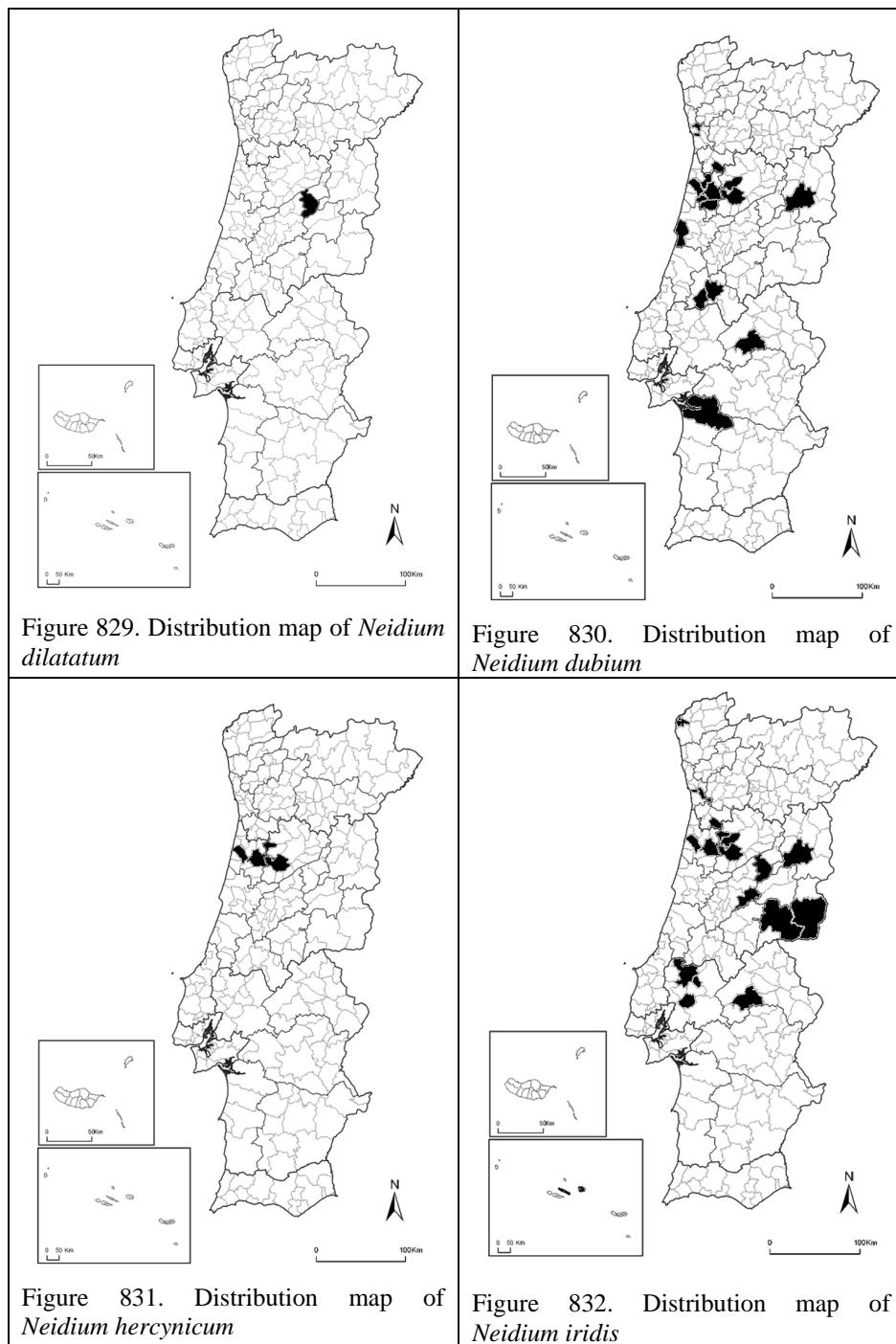
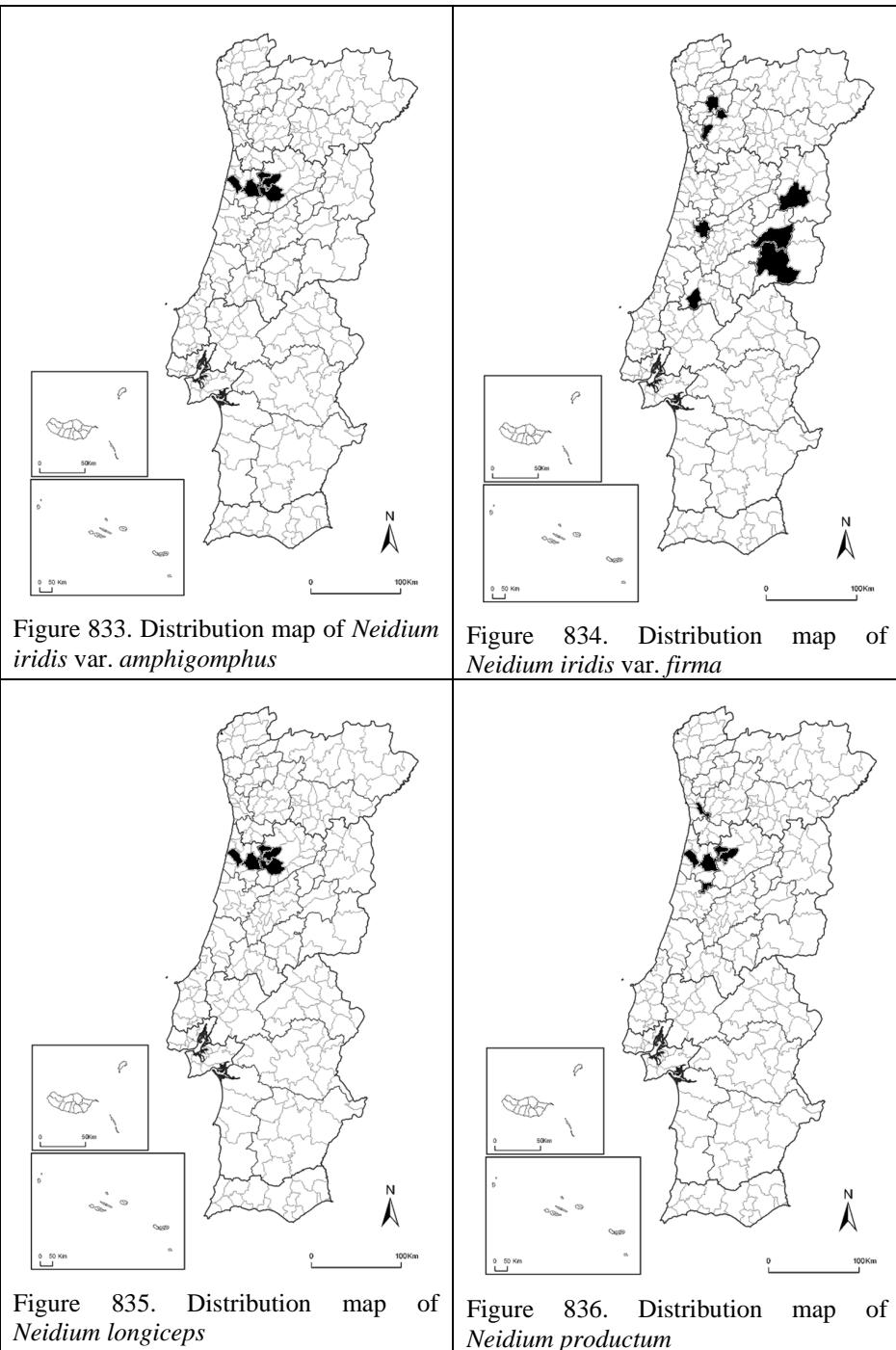


Figure 827. Distribution map of *Neidium bisulcatum*

Figure 828. Distribution map of *Neidium densestriatum*





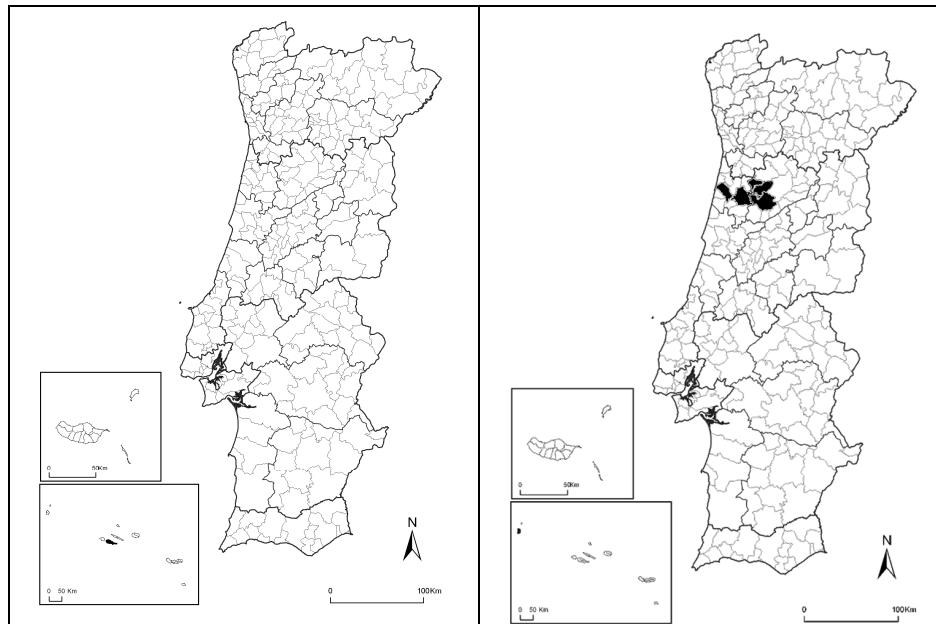


Figure 837. Distribution map of *Neidium septentrionalis*

Figure 838. Distribution map of *Neidium verna*

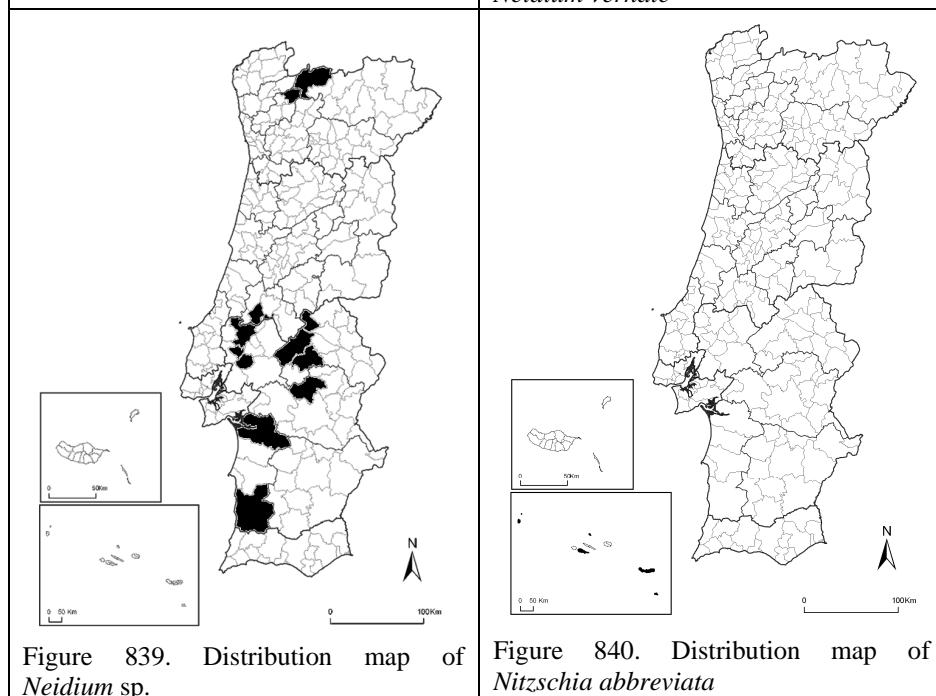
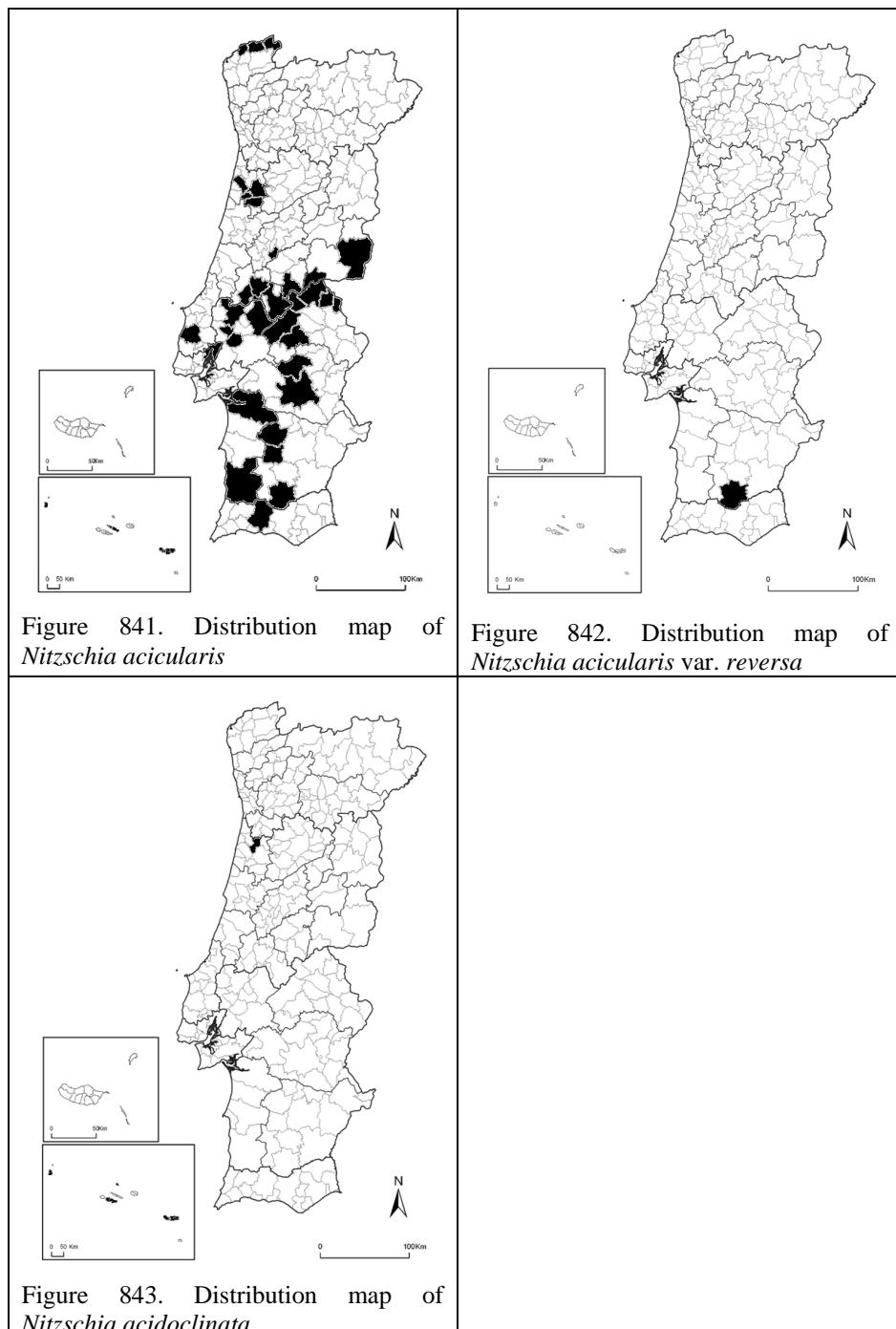
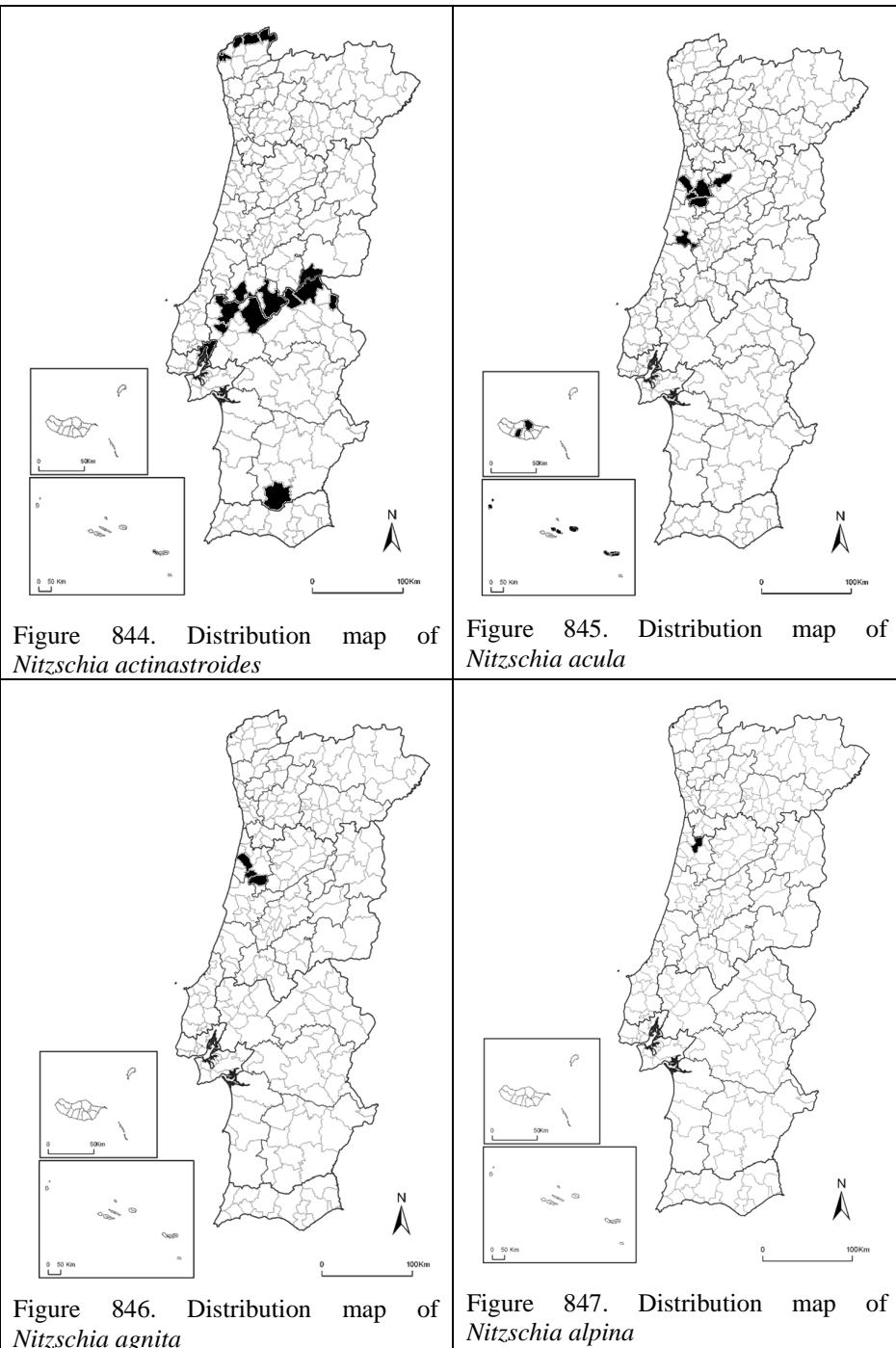
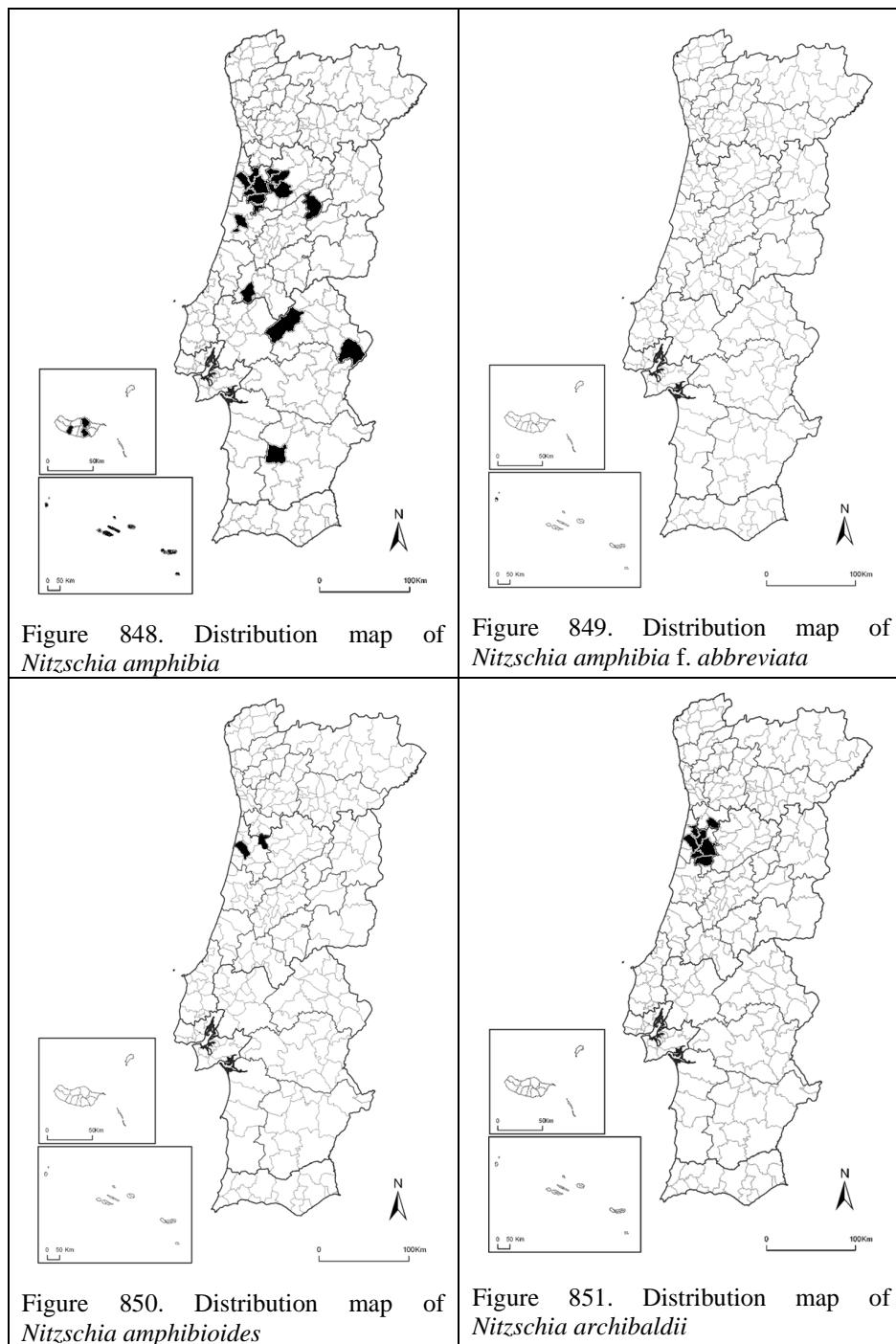


Figure 839. Distribution map of *Neidium* sp.

Figure 840. Distribution map of *Nitzschia abbreviata*







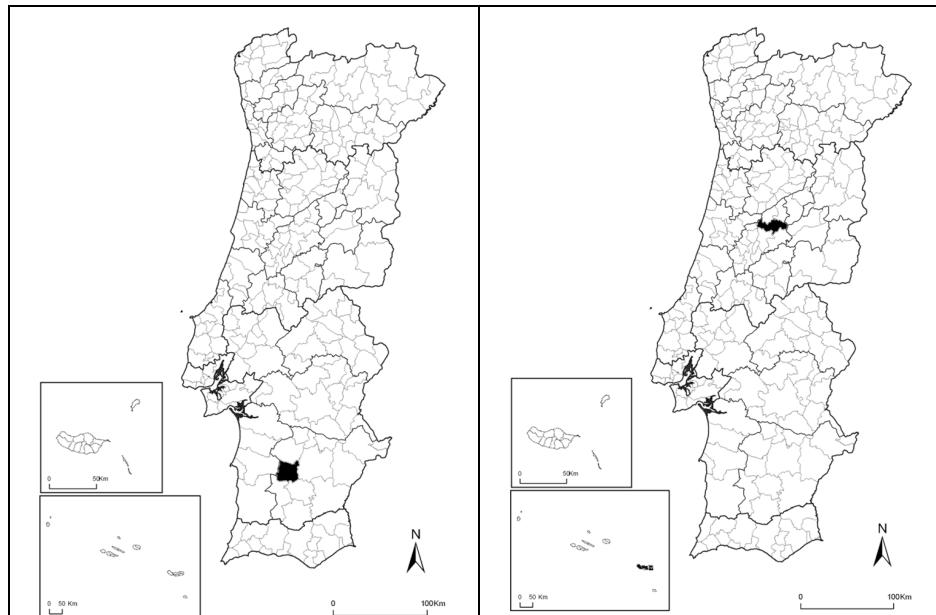


Figure 852. Distribution map of *Nitzschia aurariae*

Figure 853. Distribution map of *Nitzschia bacillum*

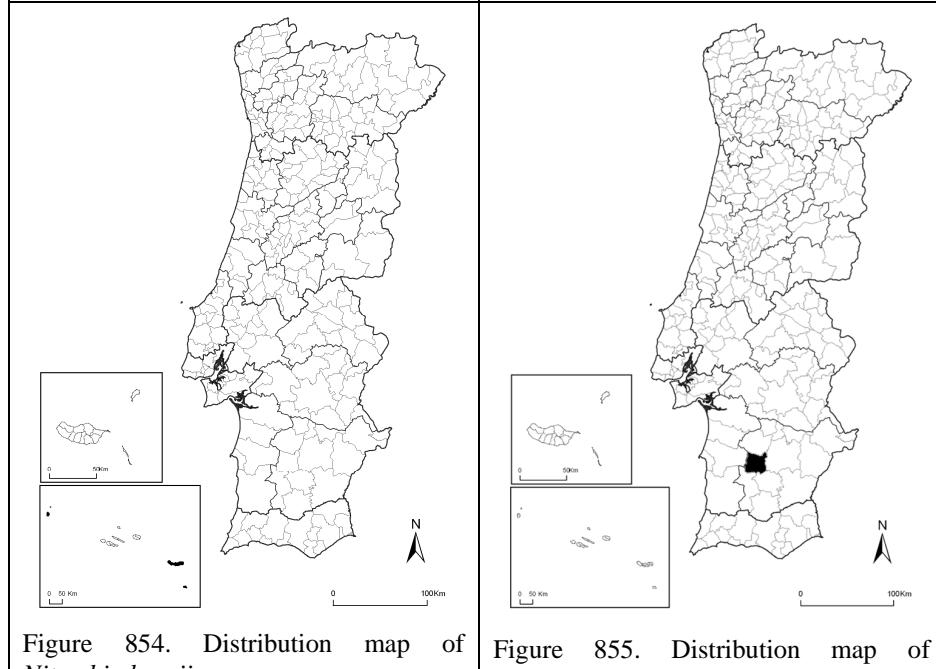
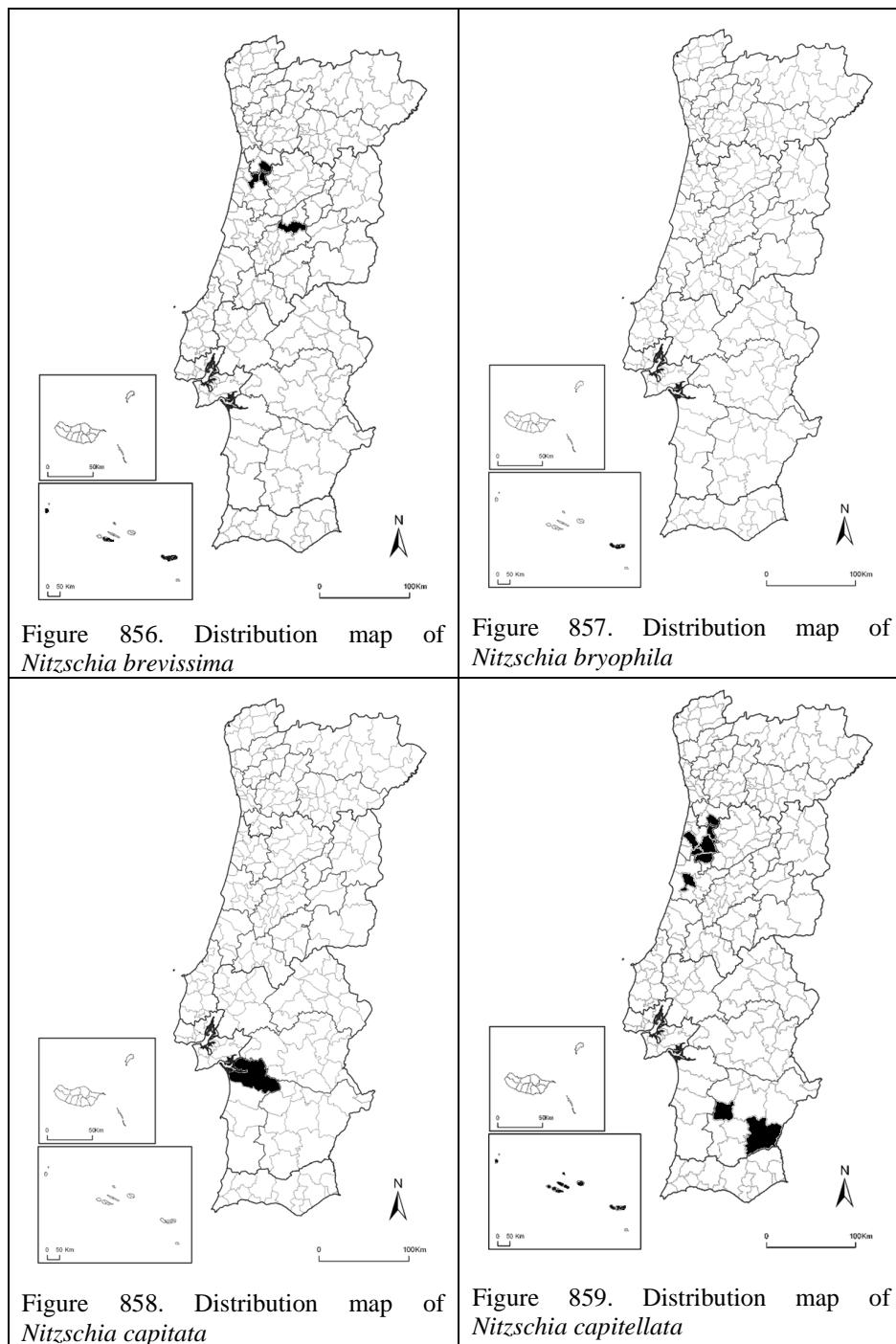


Figure 854. Distribution map of *Nitzschia bergii*

Figure 855. Distribution map of *Nitzschia bilobata*



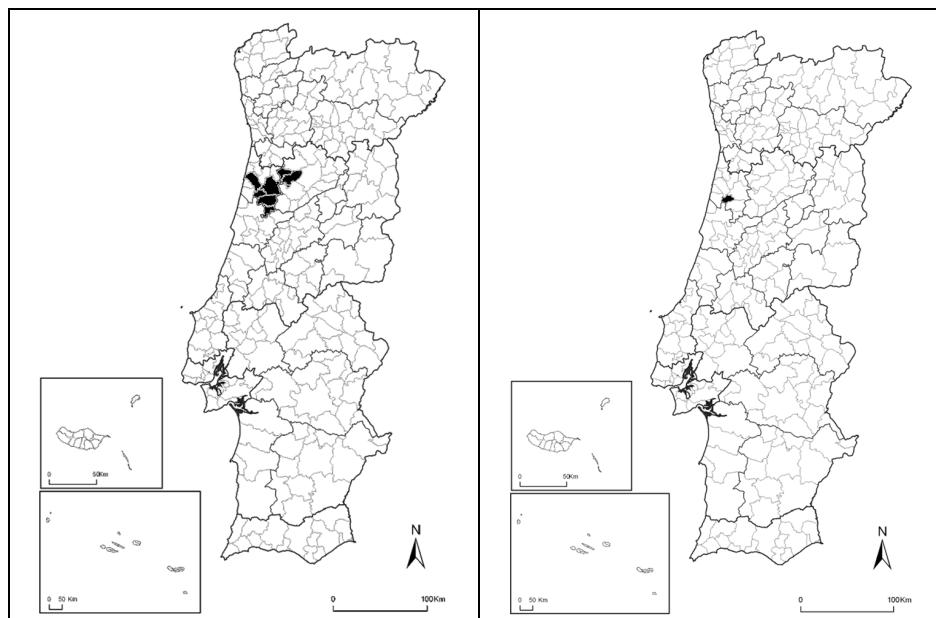


Figure 860. Distribution map of
Nitzschia capitellata var. *tenuirostris*

Figure 861. Distribution map of
Nitzschia circumsuta

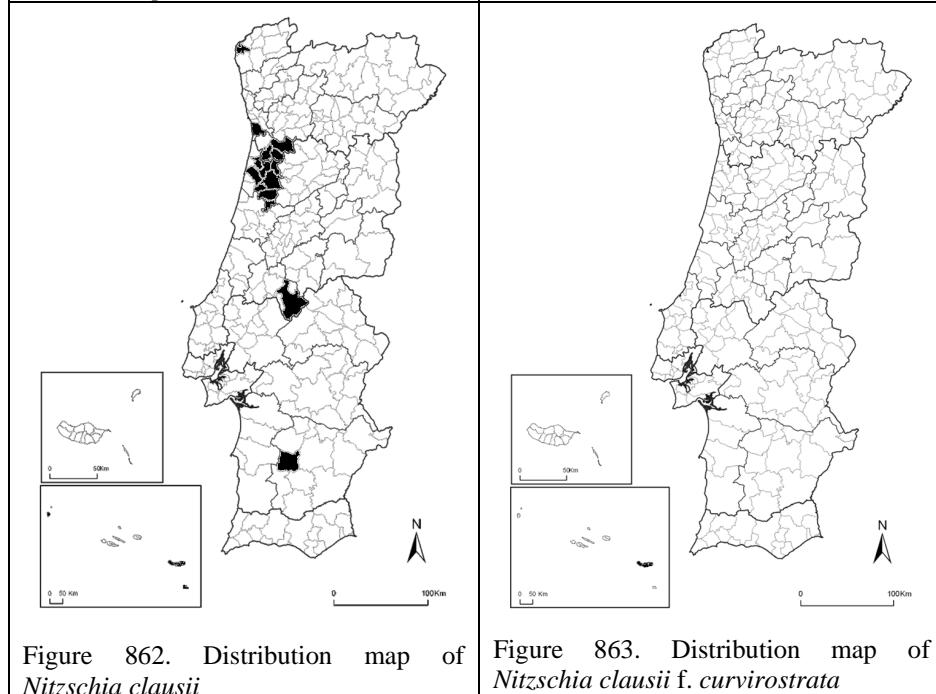
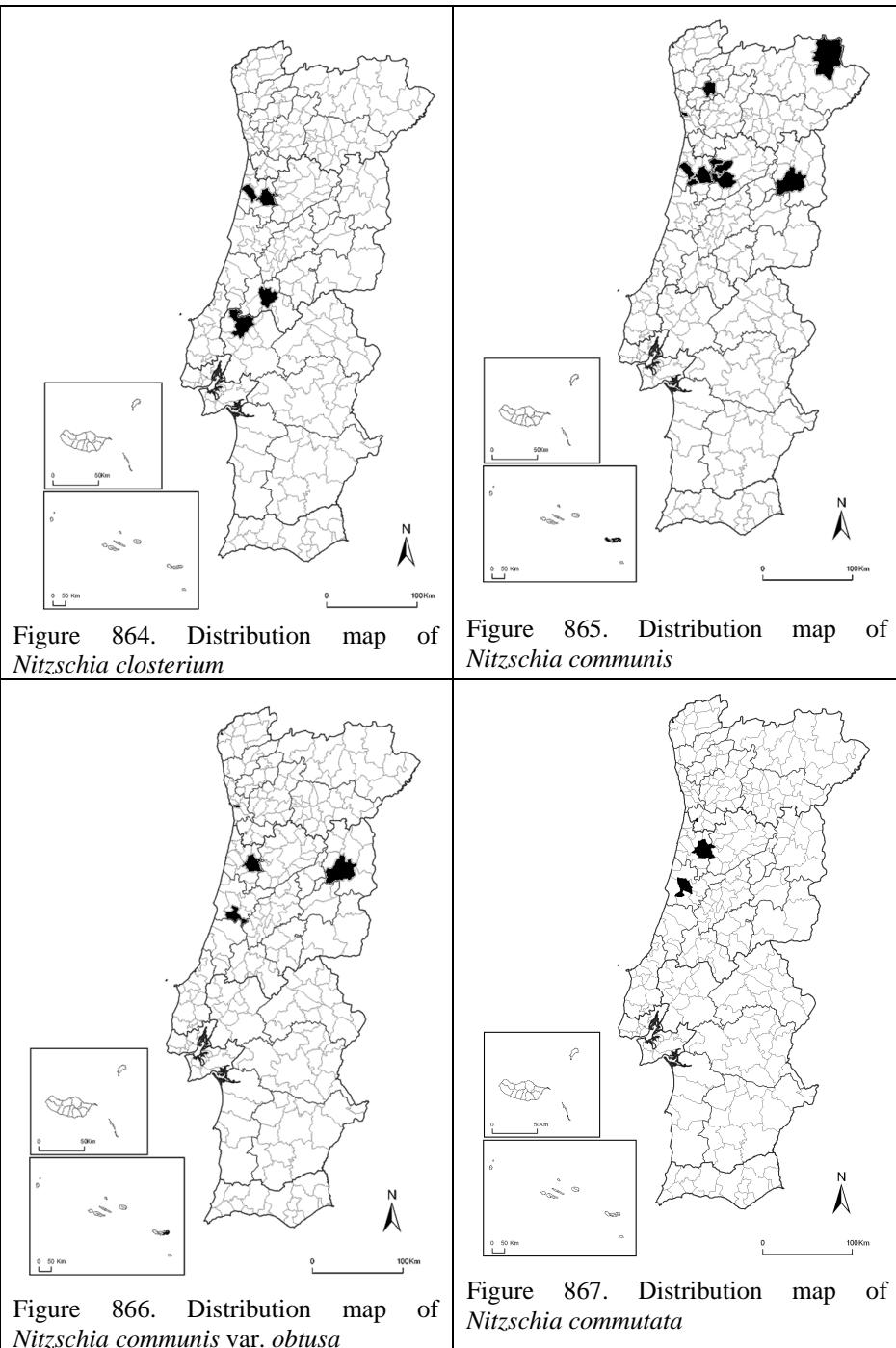
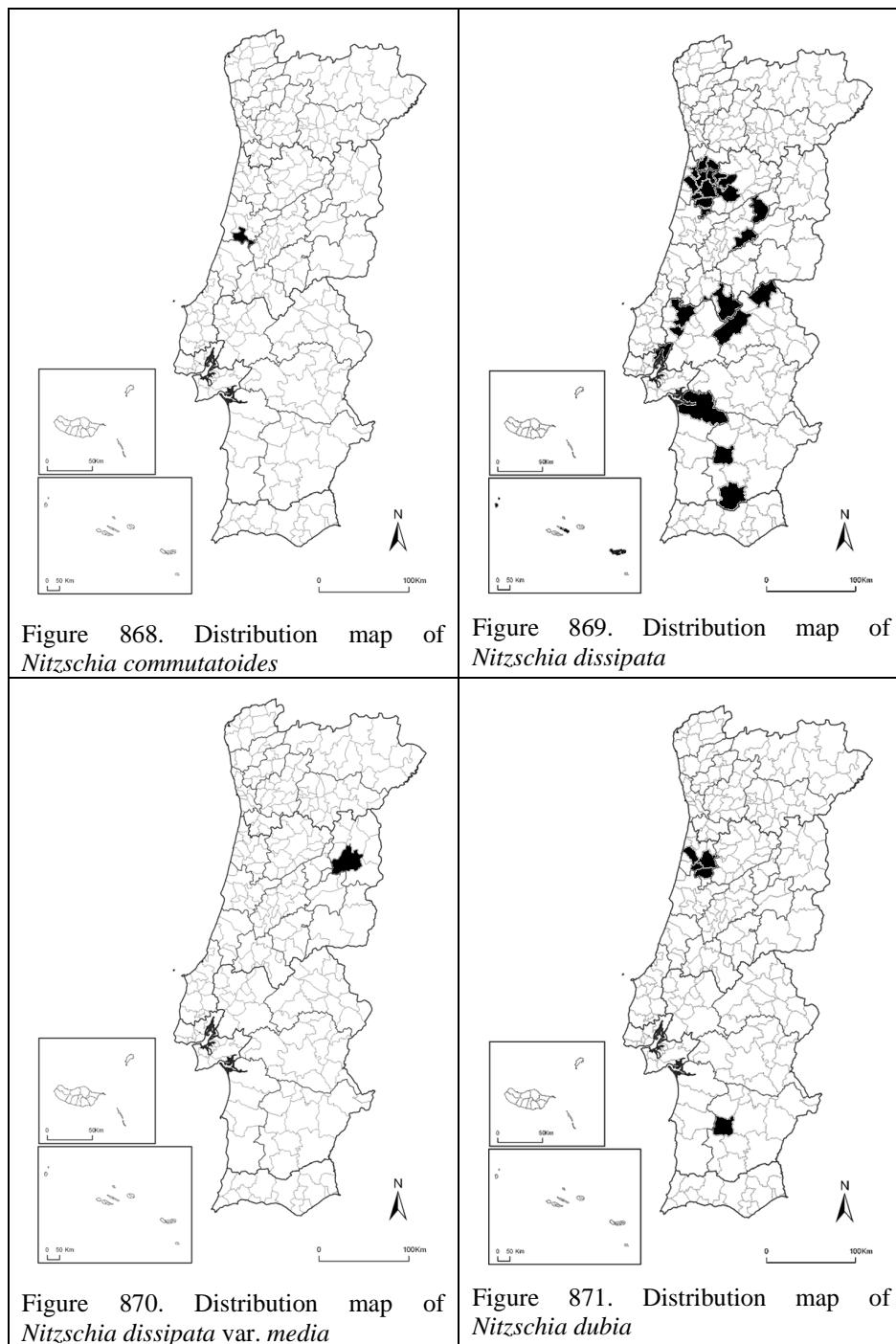


Figure 862. Distribution map of
Nitzschia clausii

Figure 863. Distribution map of
Nitzschia clausii f. *curvirostrata*





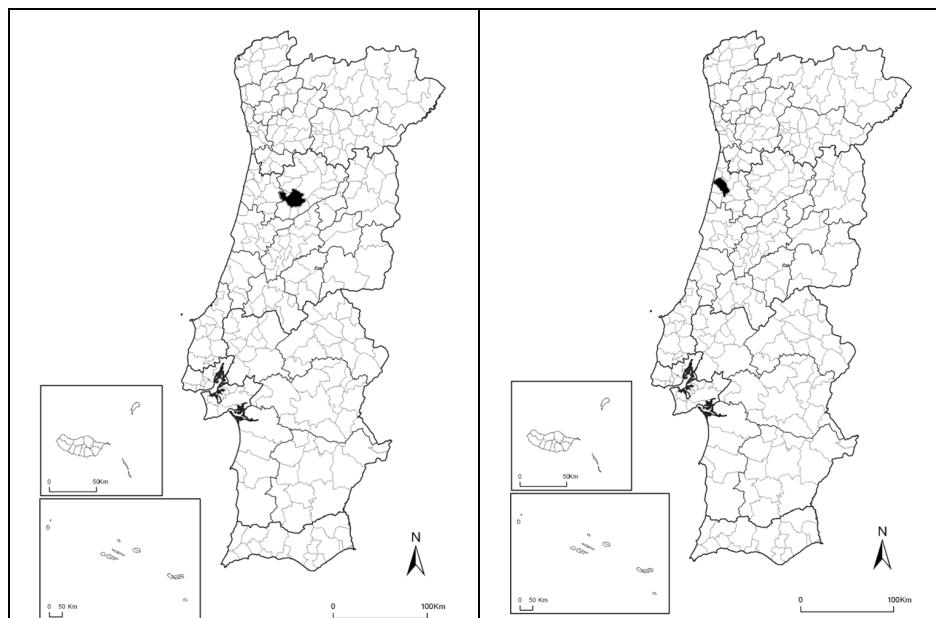


Figure 872. Distribution map of *Nitzschia dubia* var. *latestriata*

Figure 873. Distribution map of *Nitzschia epithemiformis*

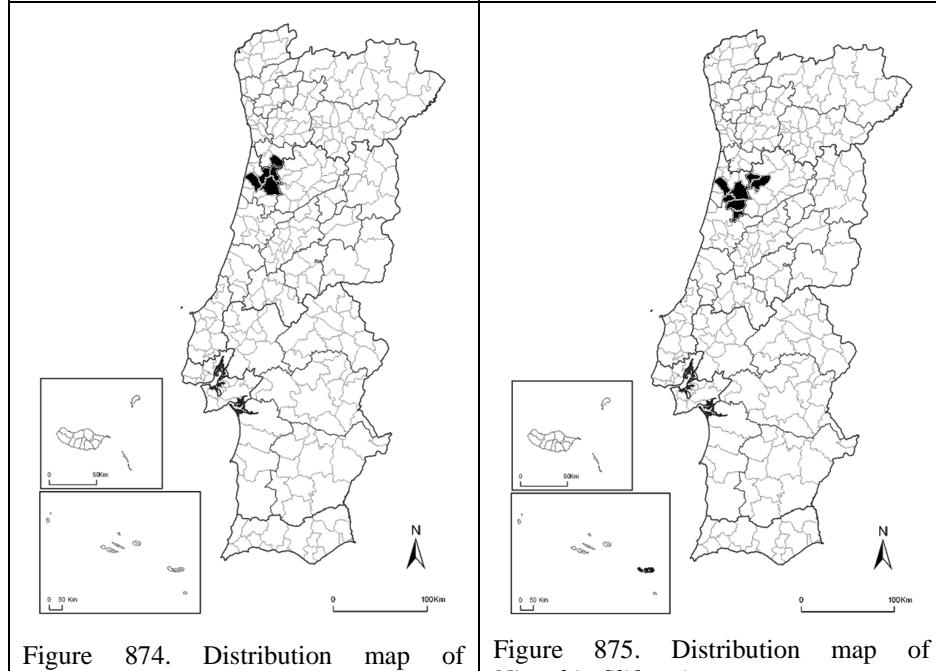
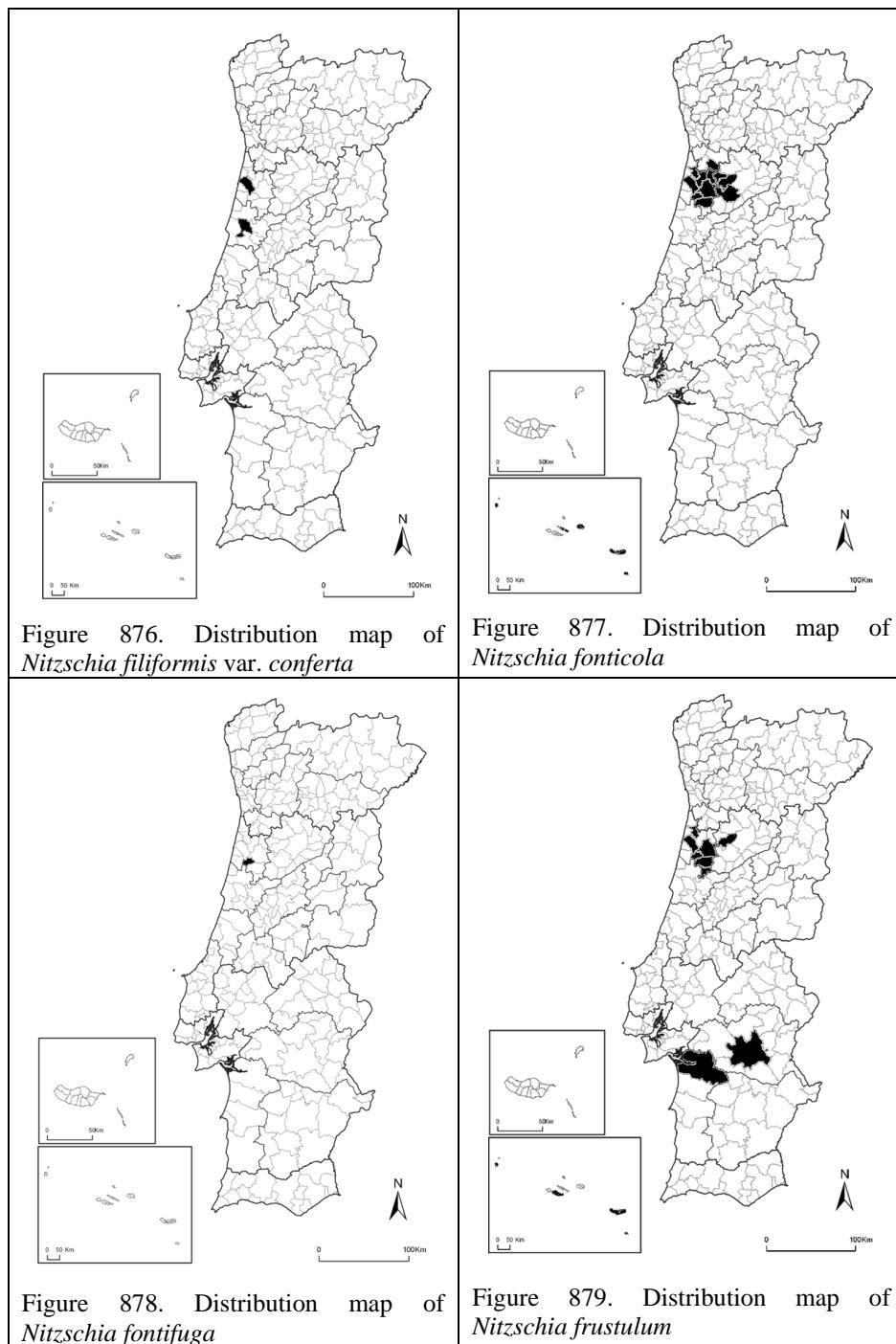
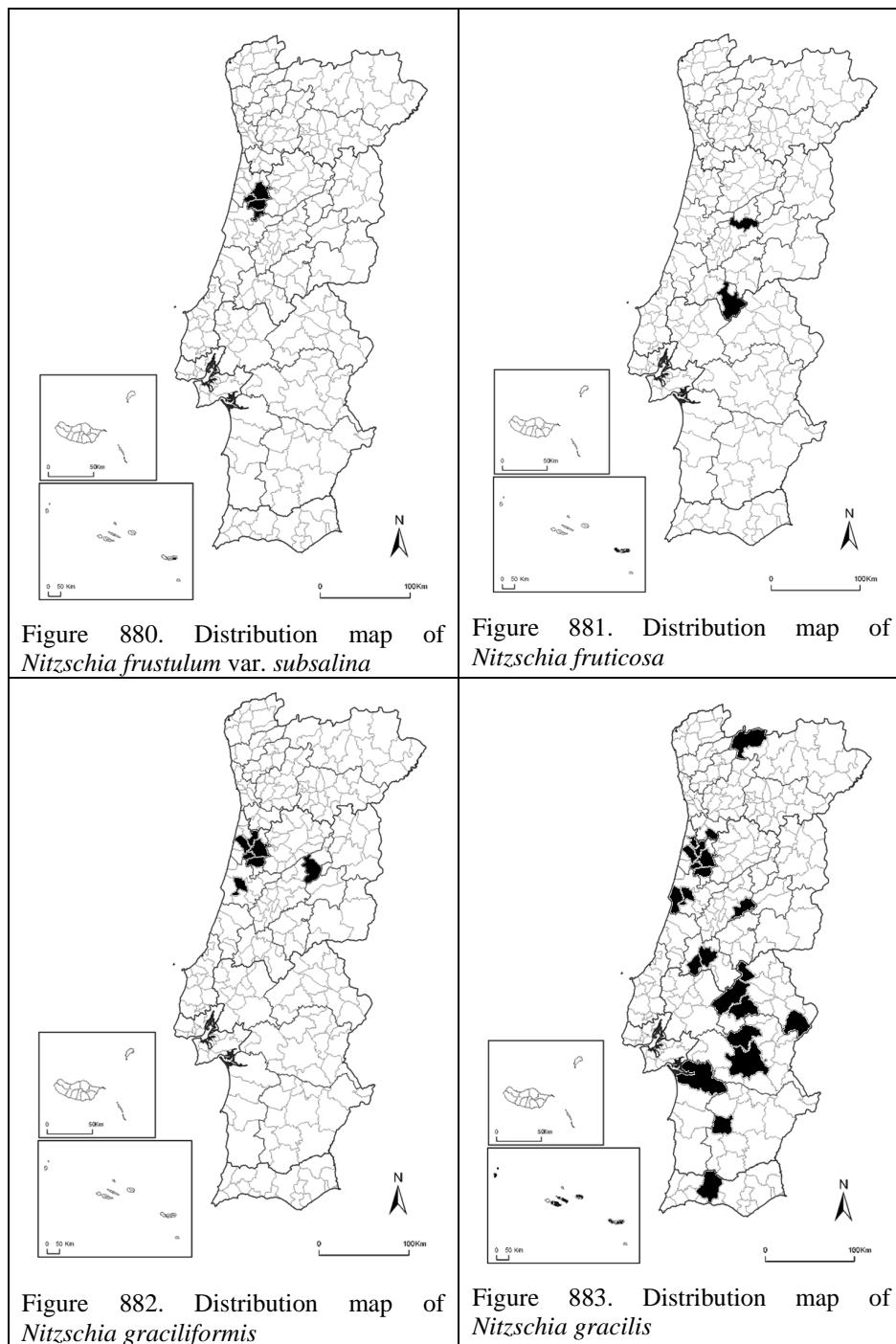
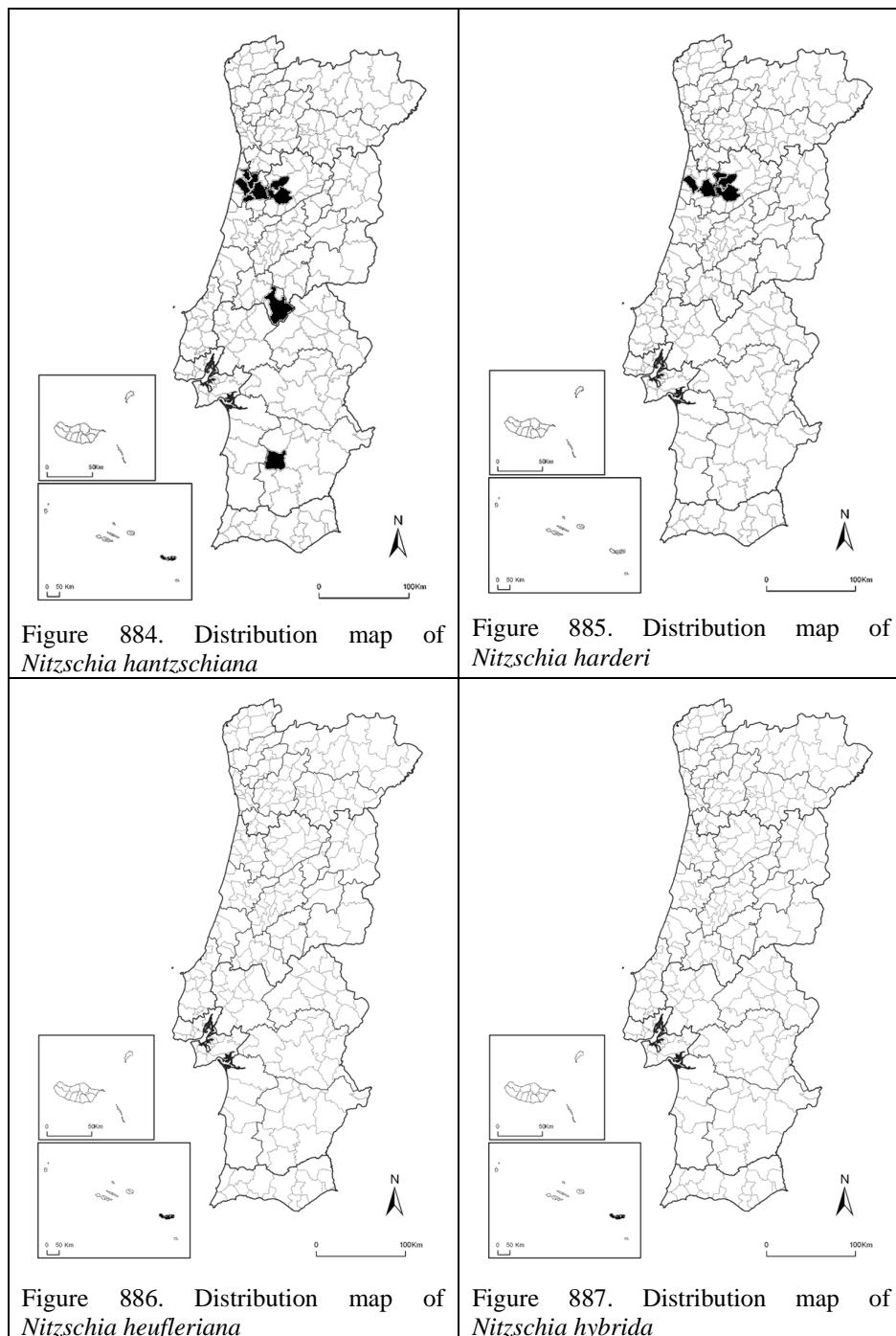


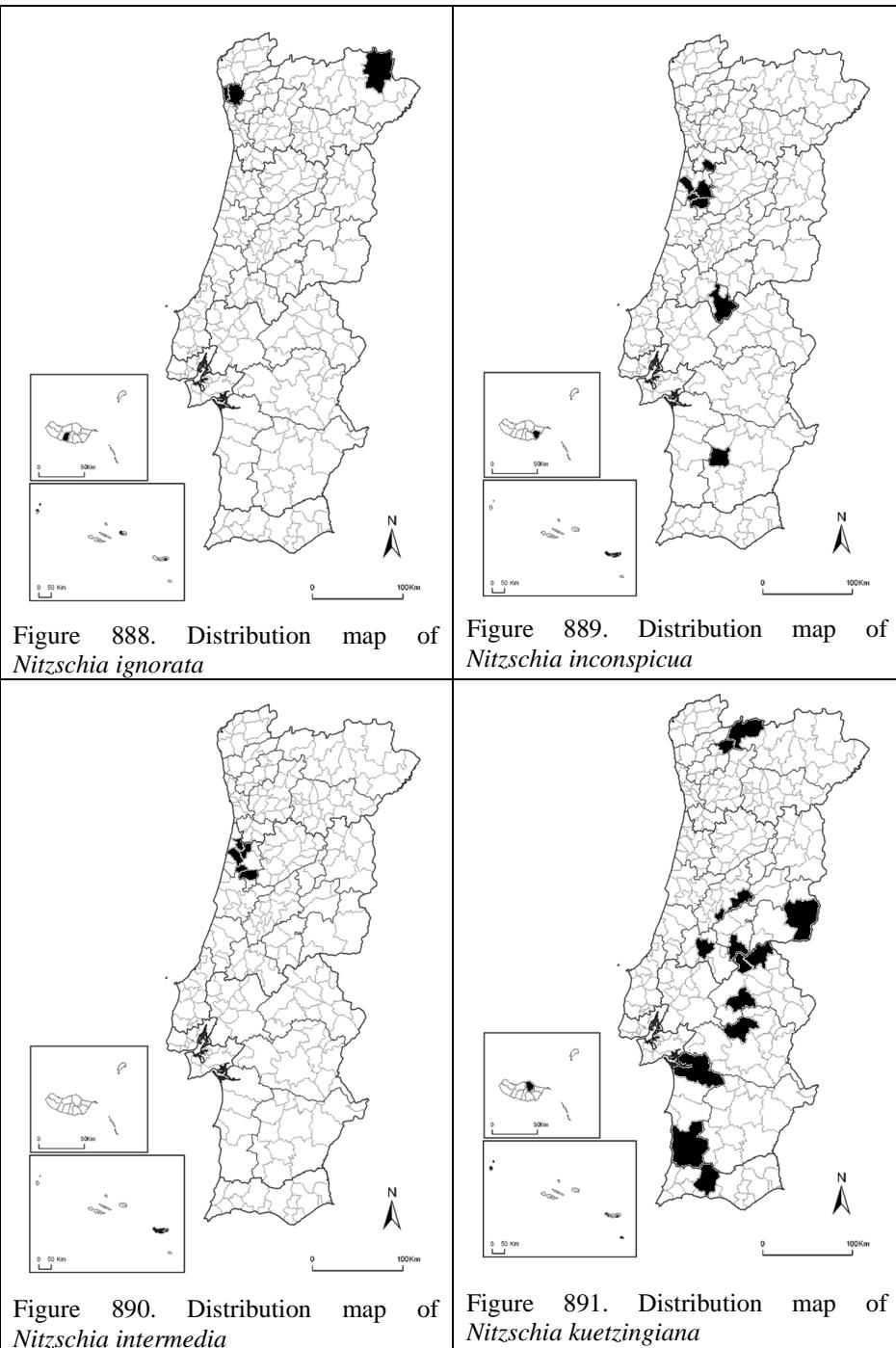
Figure 874. Distribution map of *Nitzschia epithemoides* var. *disputata*

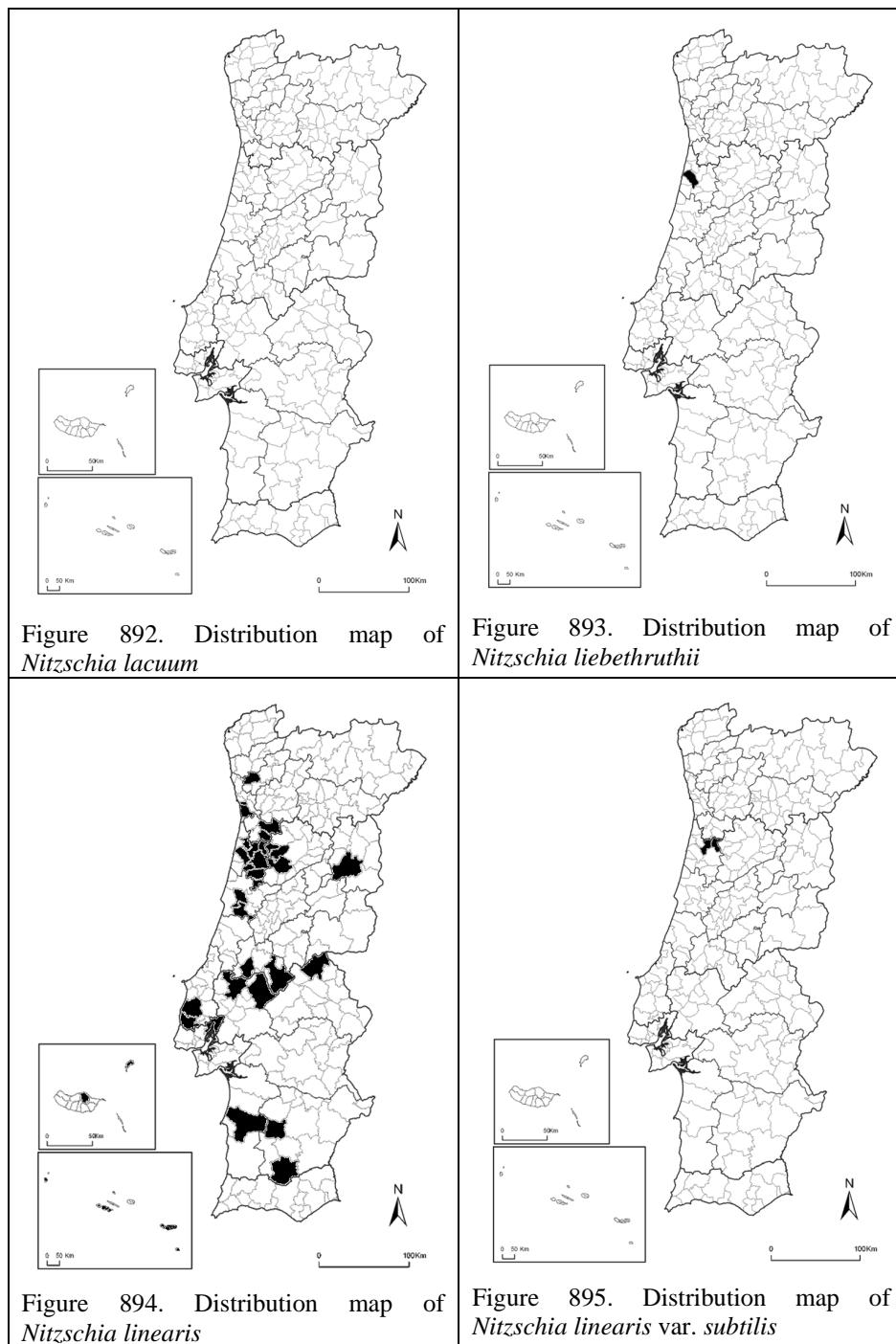
Figure 875. Distribution map of *Nitzschia filiformis*

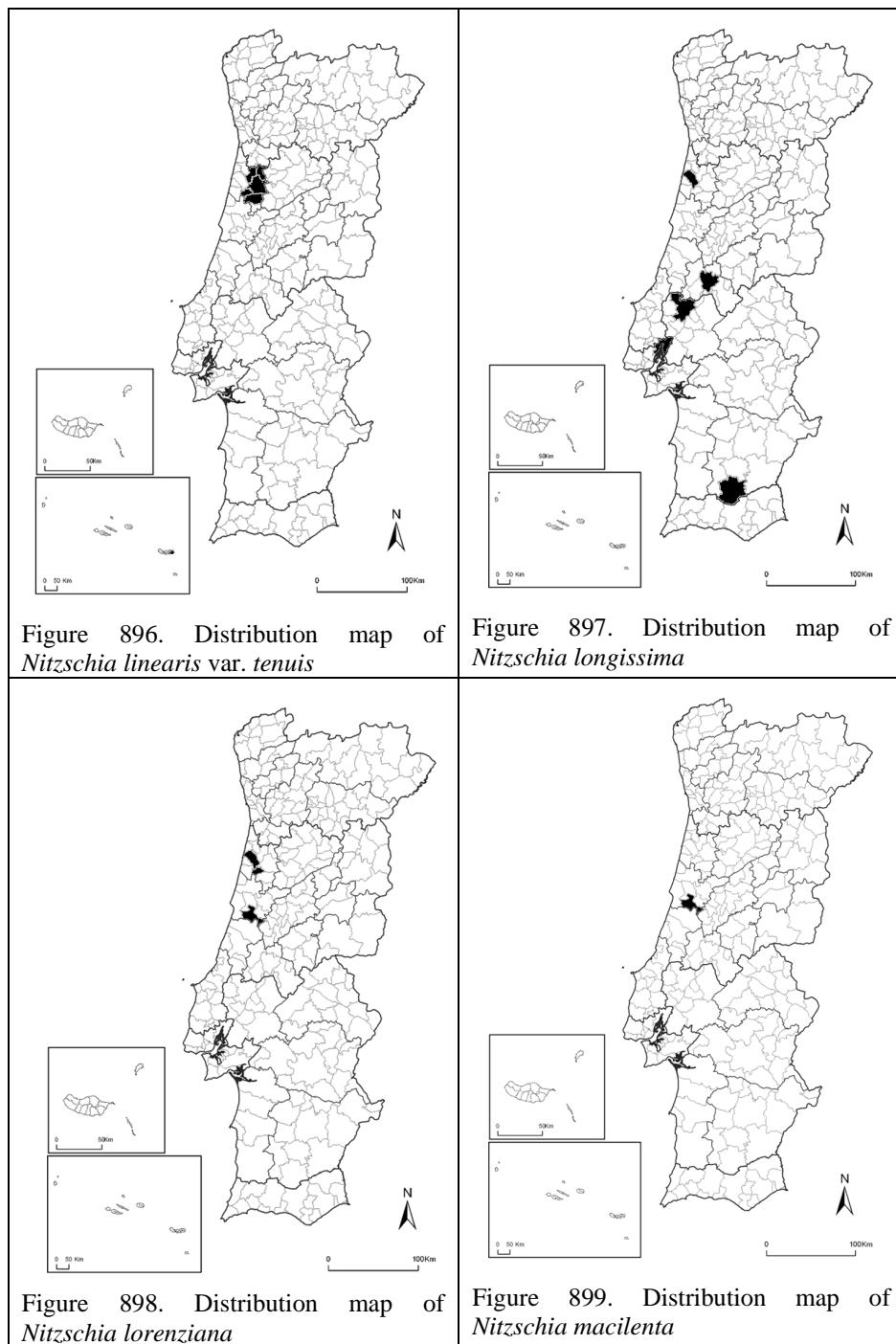












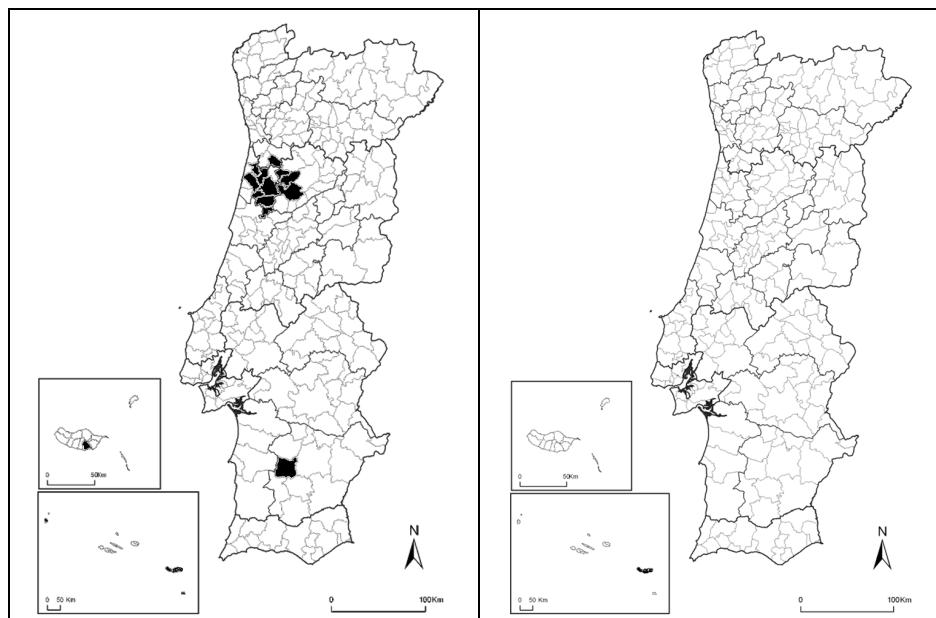


Figure 900. Distribution map of *Nitzschia microcephala*

Figure 901. Distribution map of *Nitzschia minutissima*

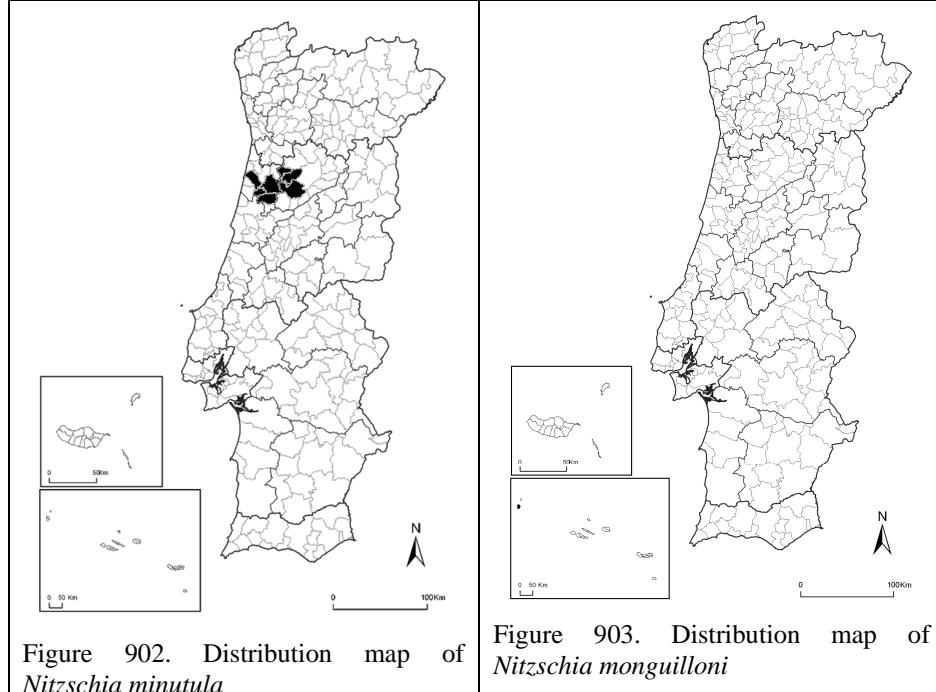


Figure 902. Distribution map of *Nitzschia minutula*

Figure 903. Distribution map of *Nitzschia monguilloni*

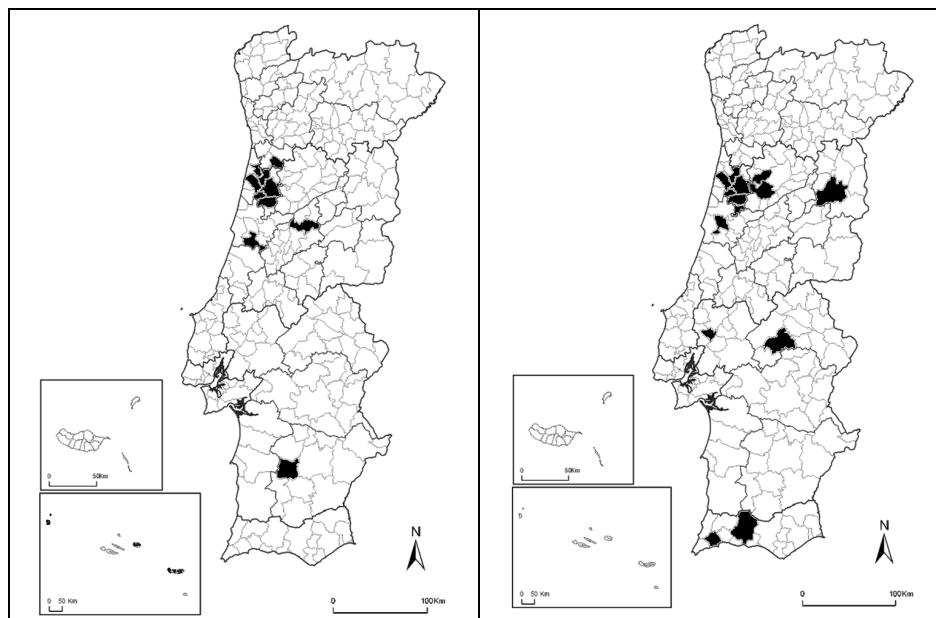


Figure 904. Distribution map of *Nitzschia nana*

Figure 905. Distribution map of *Nitzschia obtusa*

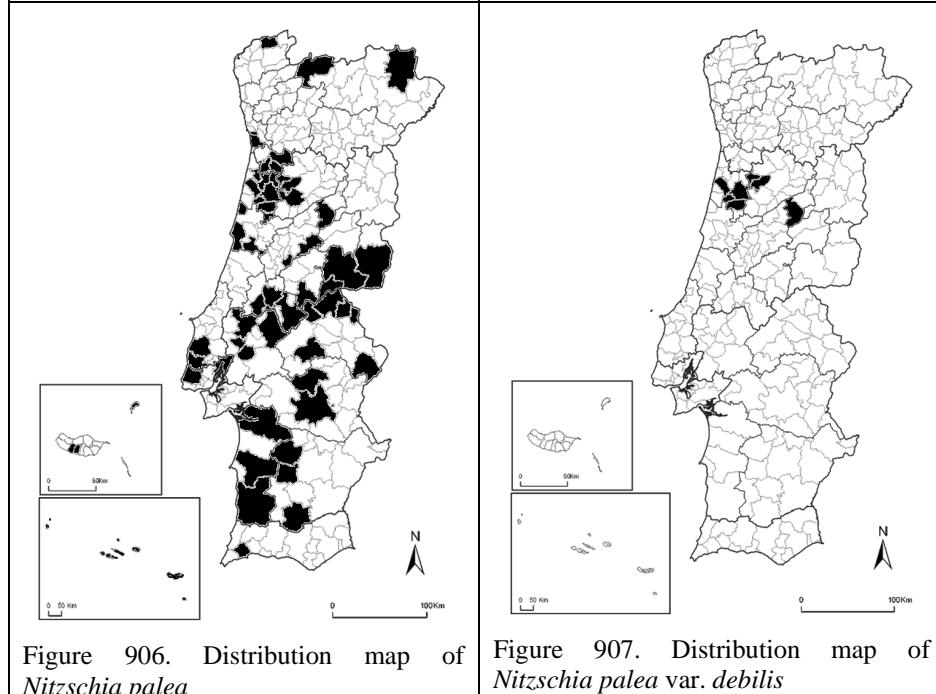


Figure 906. Distribution map of *Nitzschia palea*

Figure 907. Distribution map of *Nitzschia palea* var. *debilis*

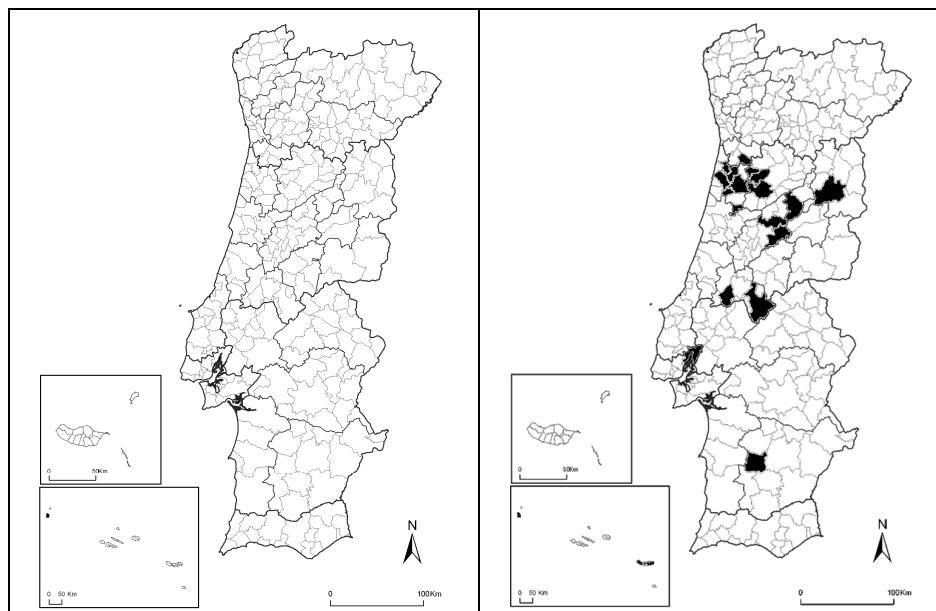


Figure 908. Distribution map of *Nitzschia palea* f. *dubia*

Figure 909. Distribution map of *Nitzschia paleacea*

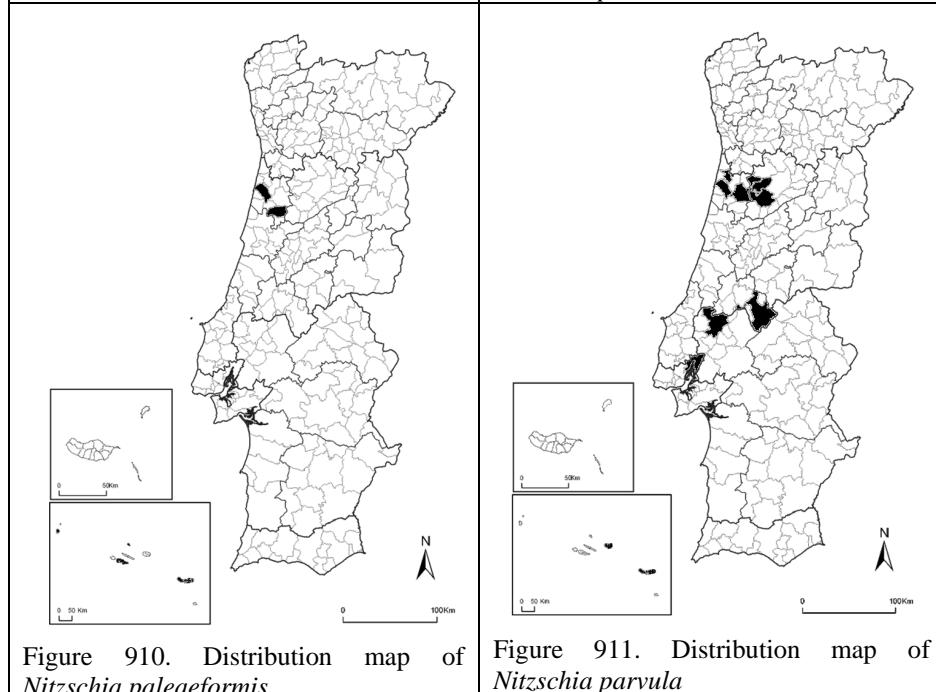


Figure 910. Distribution map of *Nitzschia paleaeformis*

Figure 911. Distribution map of *Nitzschia parvula*

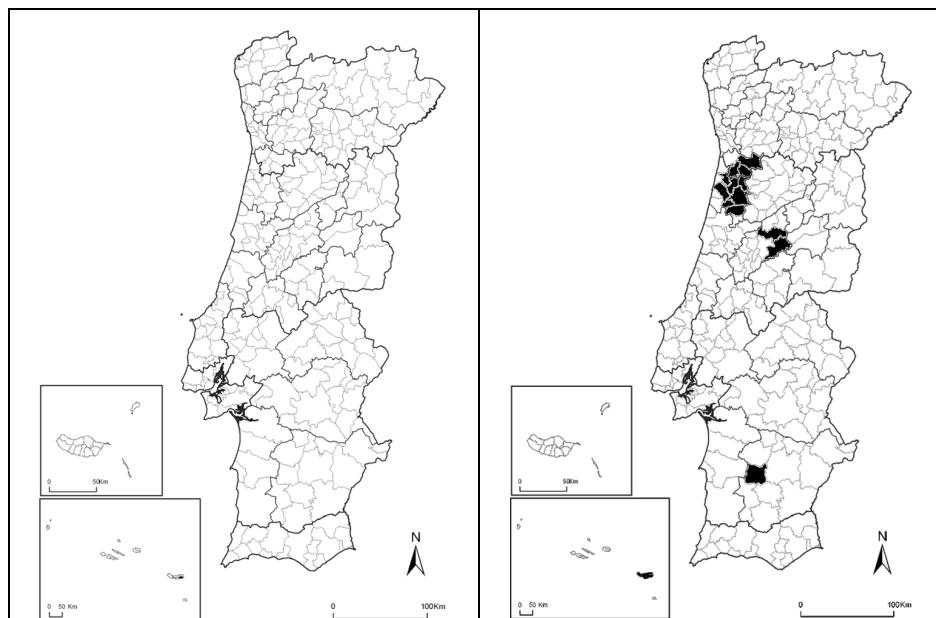


Figure 912. Distribution map of *Nitzschia pecten*

Figure 913. Distribution map of *Nitzschia permunita*

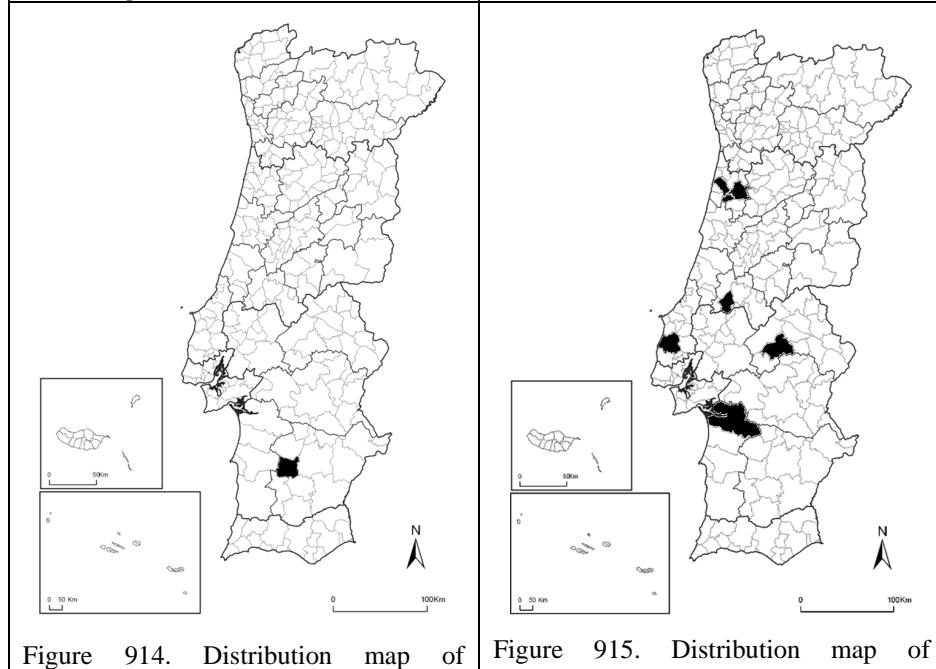


Figure 914. Distribution map of *Nitzschia perspicua*

Figure 915. Distribution map of *Nitzschia pseudoamphioxys*

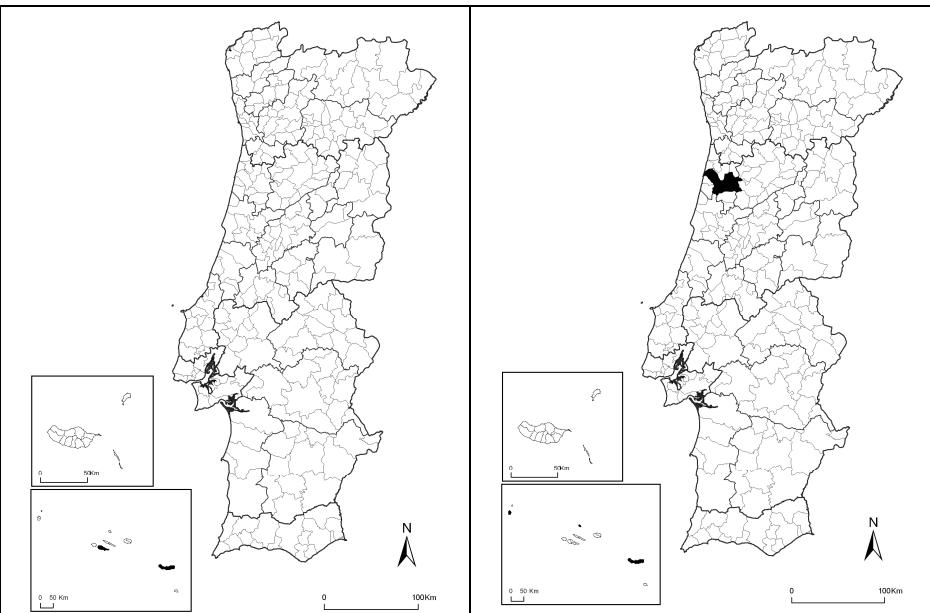


Figure 916. Distribution map of *Nitzschia linearis* var. *tenuis*

Figure 917. Distribution map of *Nitzschia pumila*

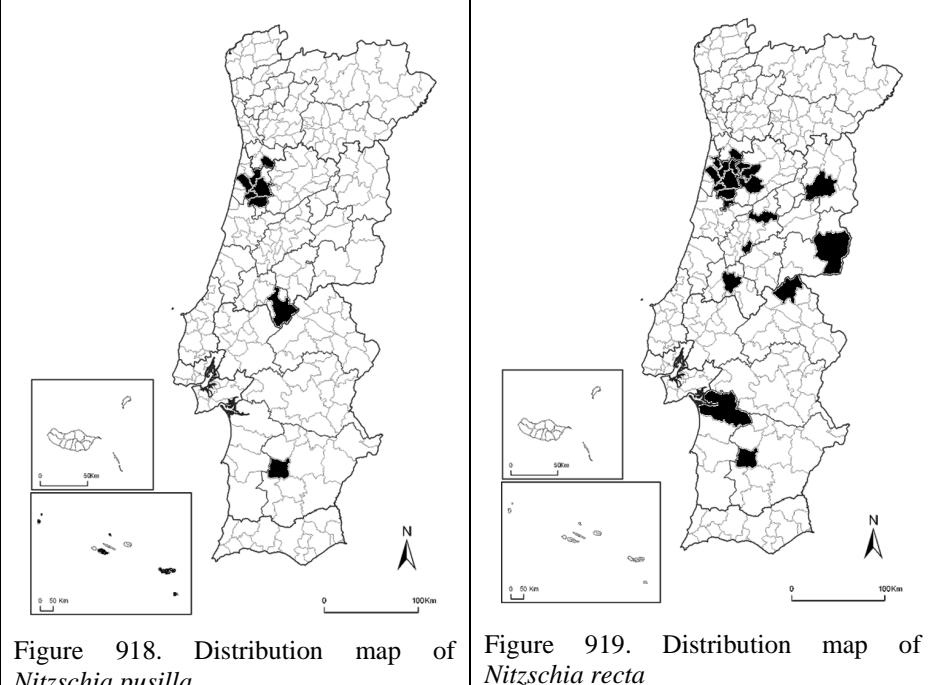
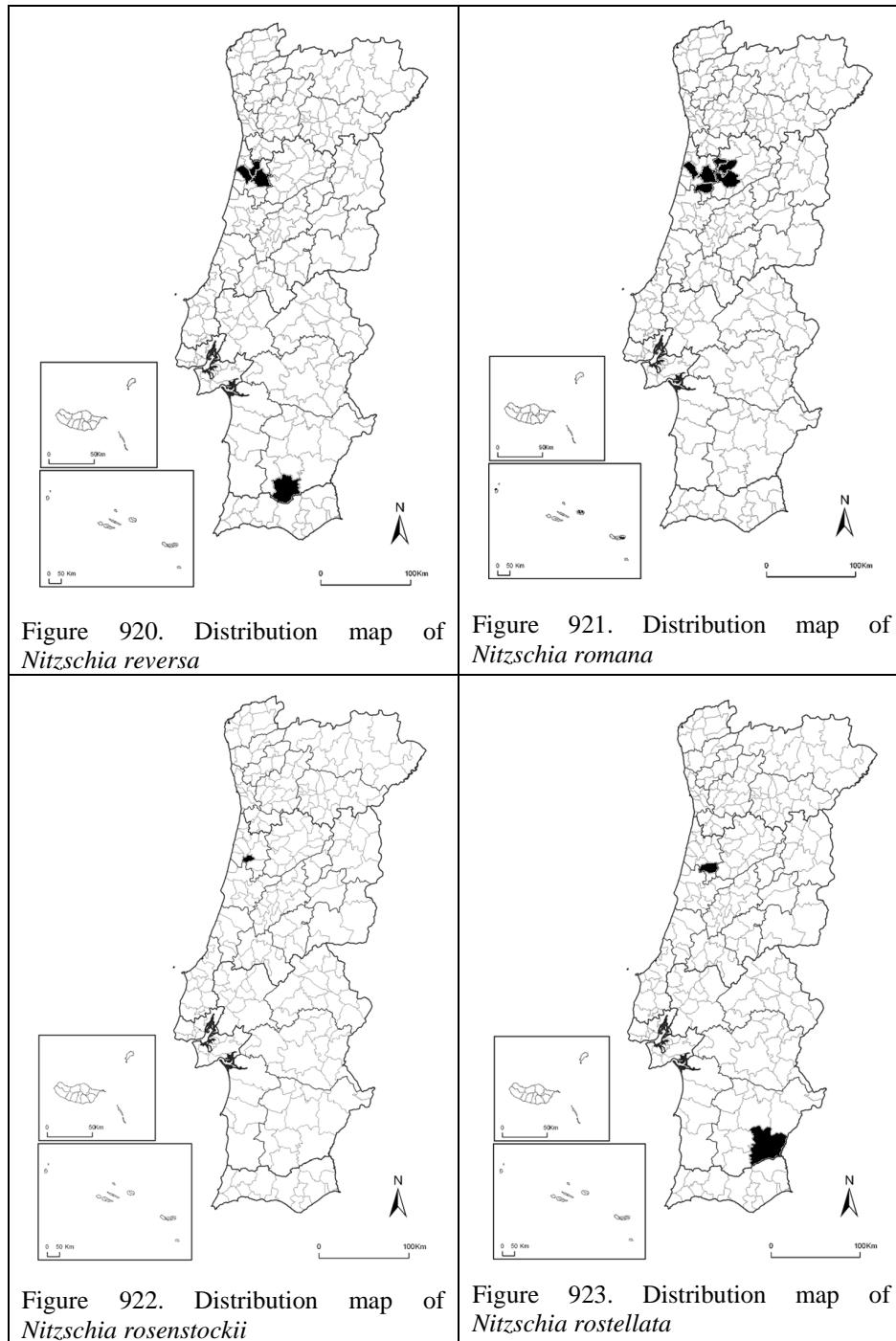


Figure 918. Distribution map of *Nitzschia pusilla*

Figure 919. Distribution map of *Nitzschia recta*



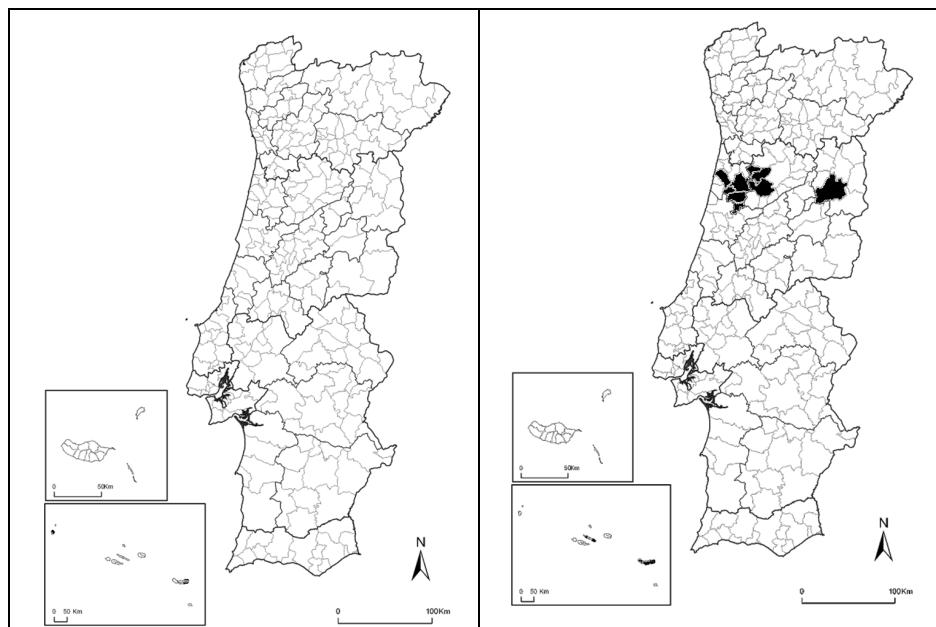


Figure 924. Distribution map of *Nitzschia ruttneri*

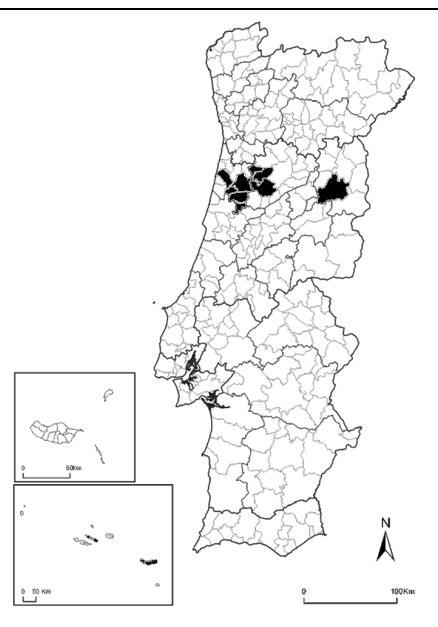


Figure 925. Distribution map of *Nitzschia scalpelliformis*

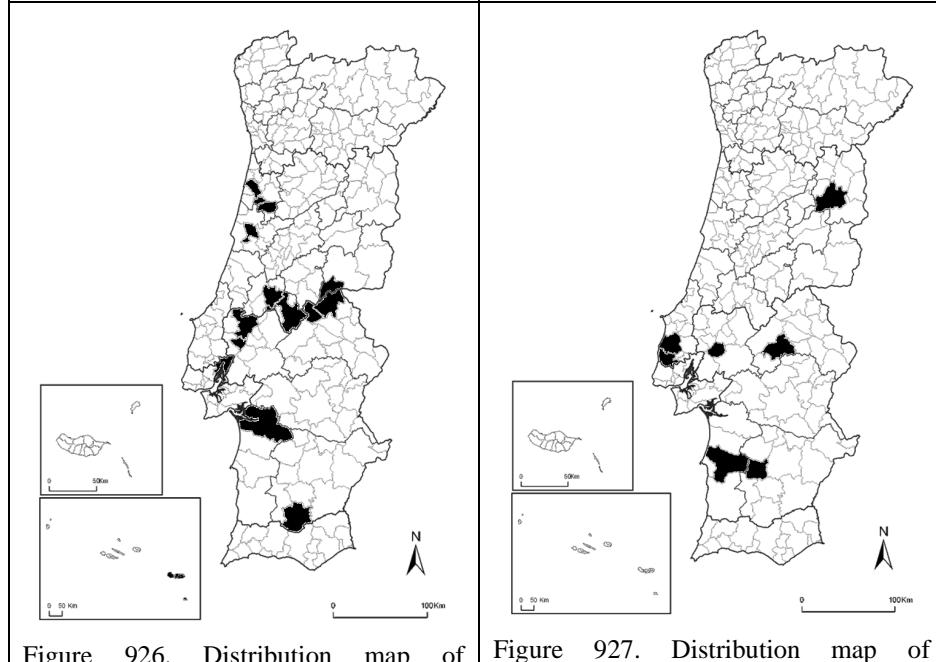


Figure 926. Distribution map of *Nitzschia sigma*

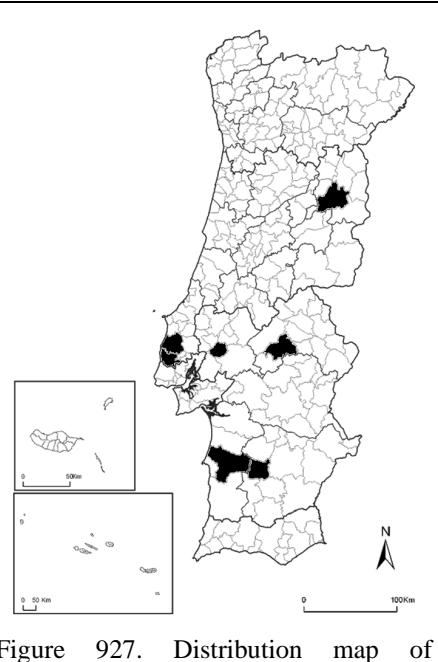


Figure 927. Distribution map of *Nitzschia sigma* var. *rigidula*

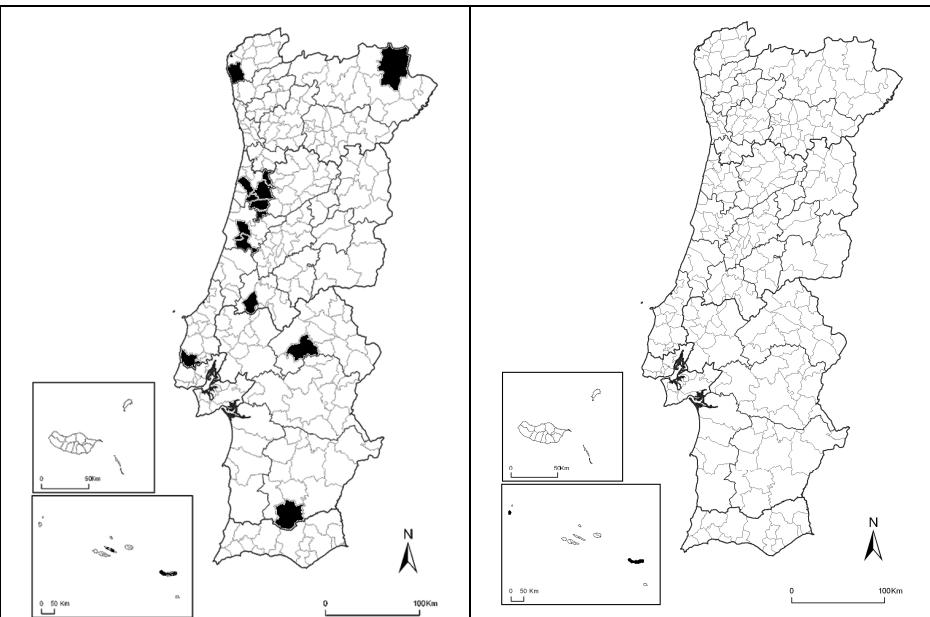


Figure 928. Distribution map of *Nitzschia sigmoidea*

Figure 929. Distribution map of *Nitzschia sinuata*

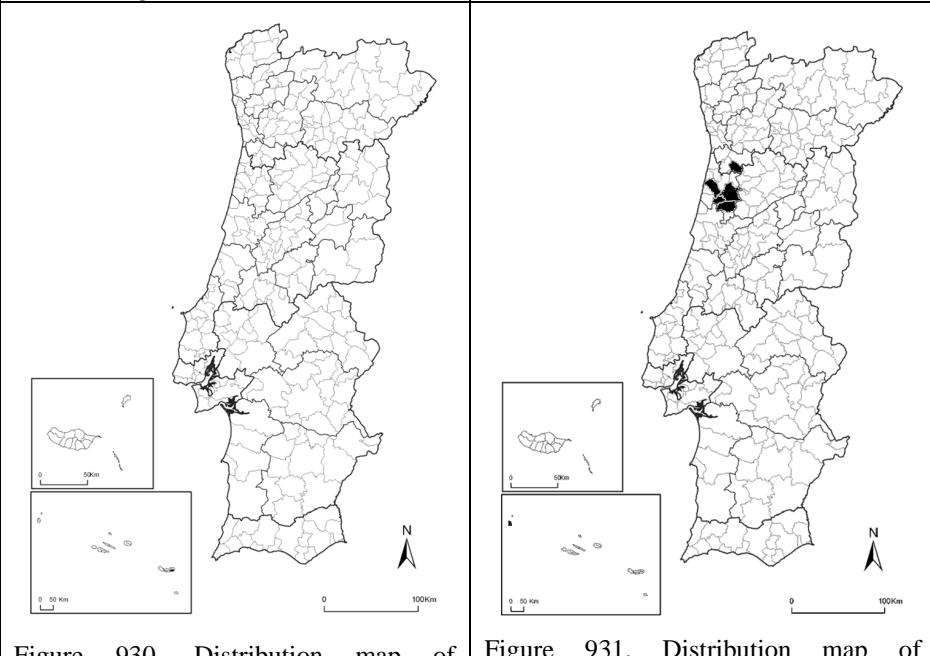


Figure 930. Distribution map of *Nitzschia sinuata* var. *delognei*

Figure 931. Distribution map of *Nitzschia sociabilis*

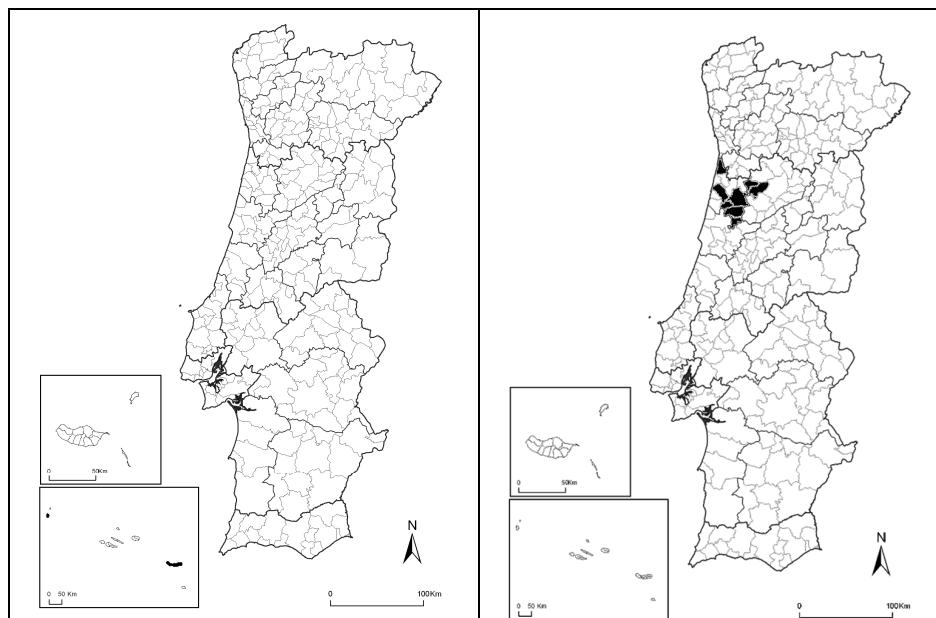


Figure 932. Distribution map of *Nitzschia solgensis*

Figure 933. Distribution map of *Nitzschia stagnorum*

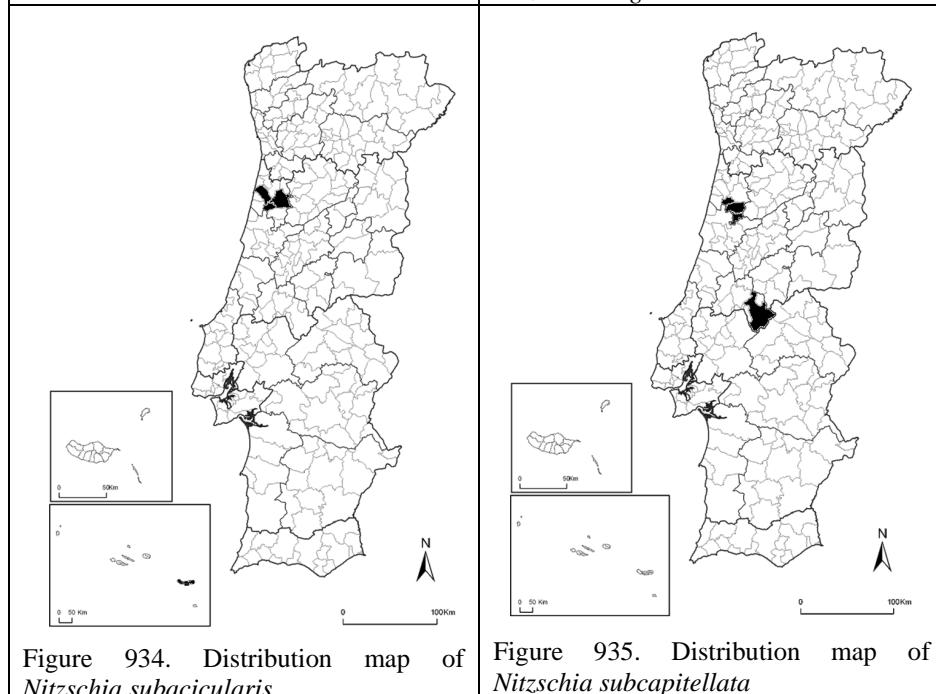
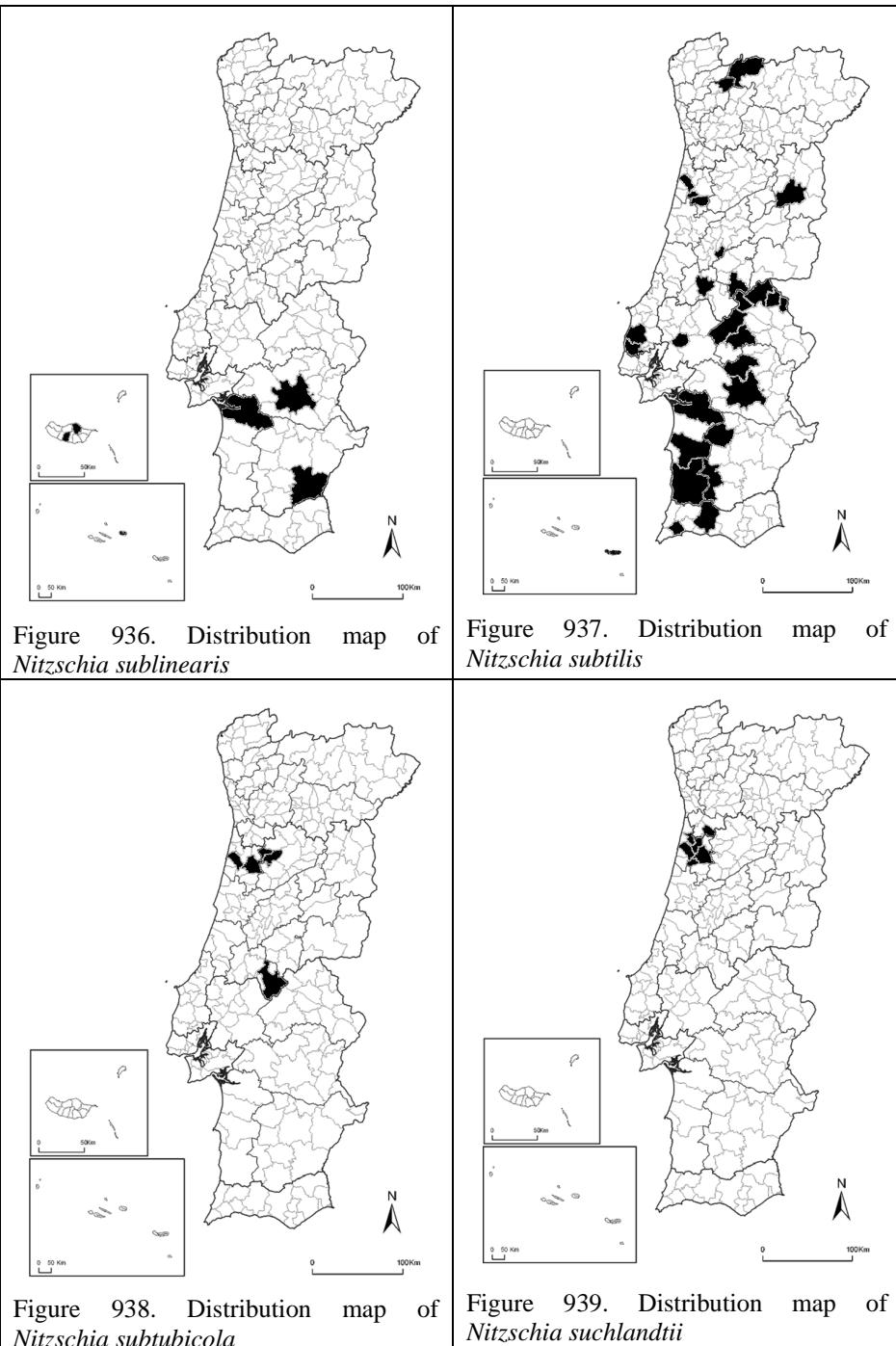
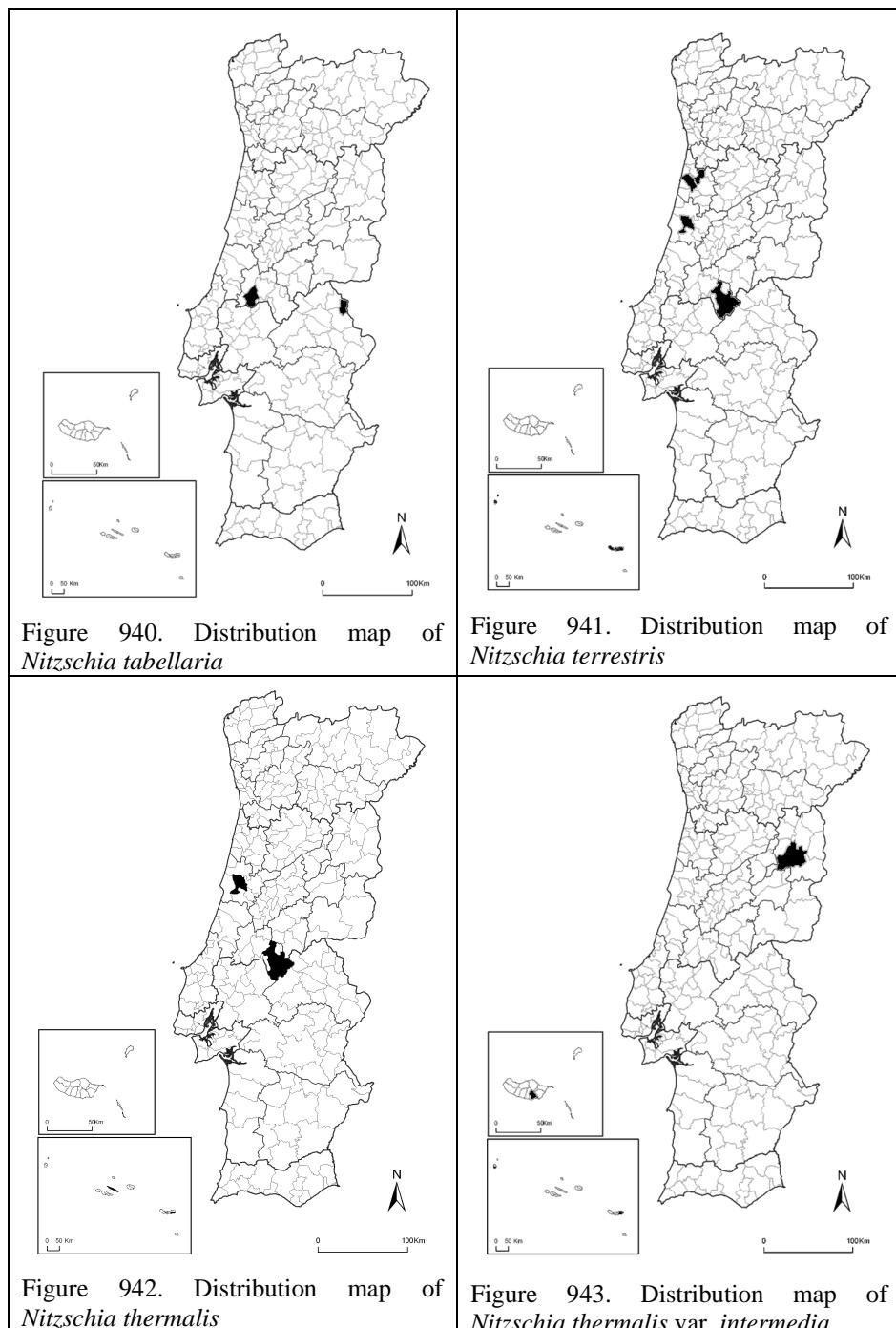


Figure 934. Distribution map of *Nitzschia subacicularis*

Figure 935. Distribution map of *Nitzschia subcapitellata*





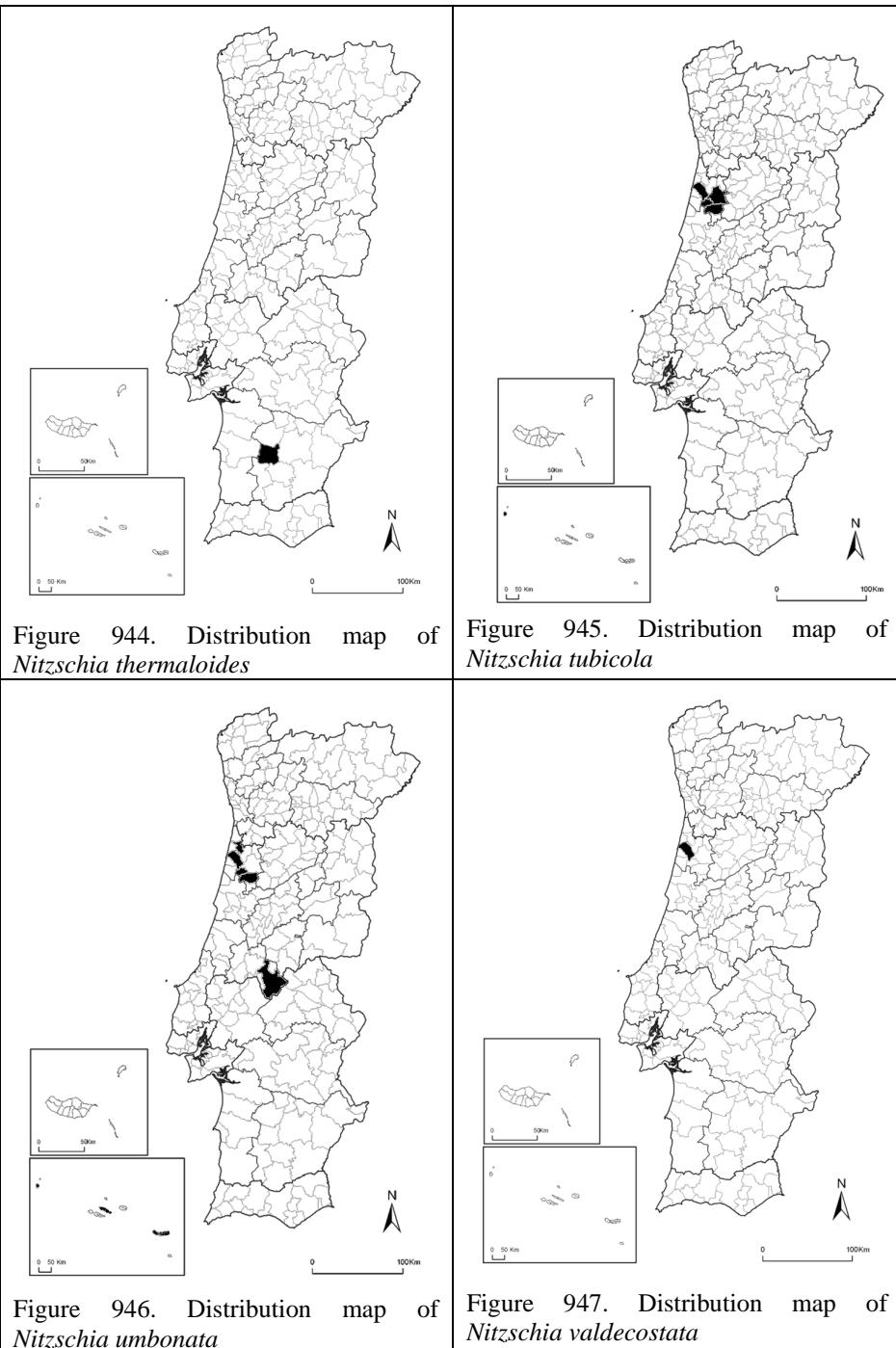


Figure 944. Distribution map of *Nitzschia thermaloides*

Figure 945. Distribution map of *Nitzschia tubicola*

Figure 946. Distribution map of *Nitzschia umbonata*

Figure 947. Distribution map of *Nitzschia valdecostata*

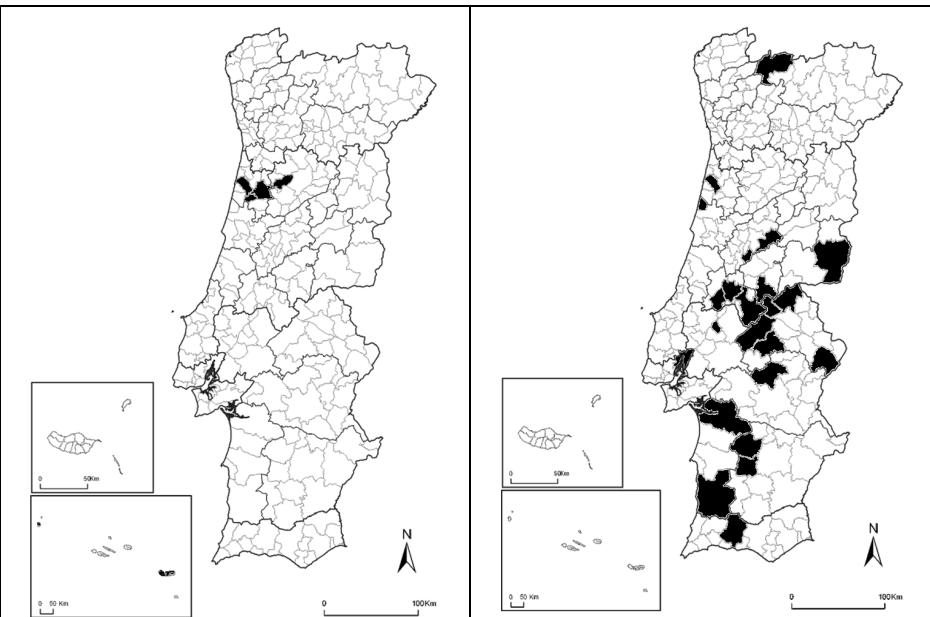


Figure 948. Distribution map of *Nitzschia valdestriata*

Figure 949. Distribution map of *Nitzschia vermicularis*

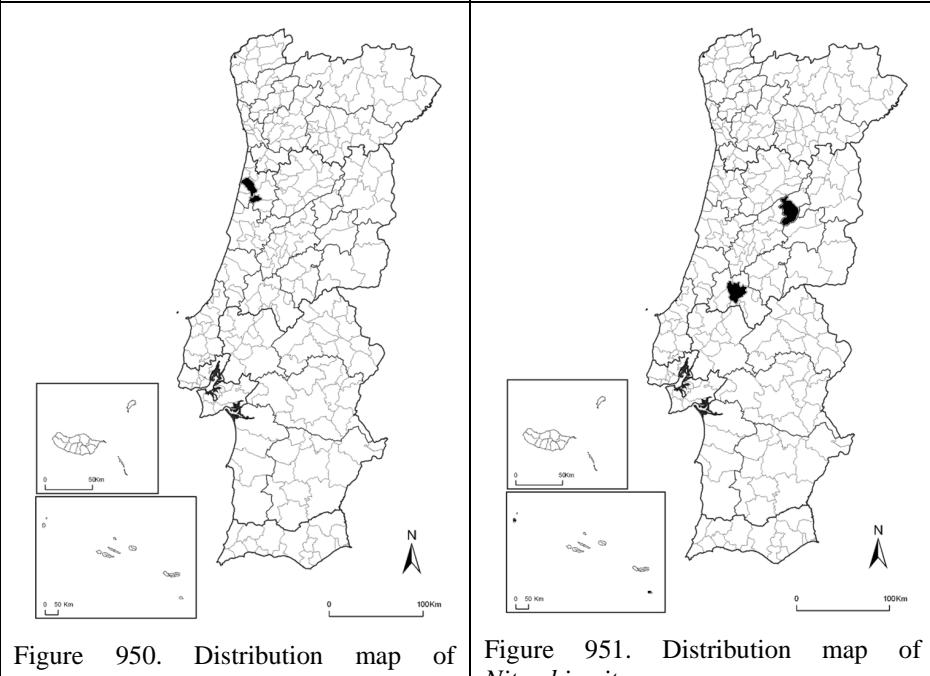
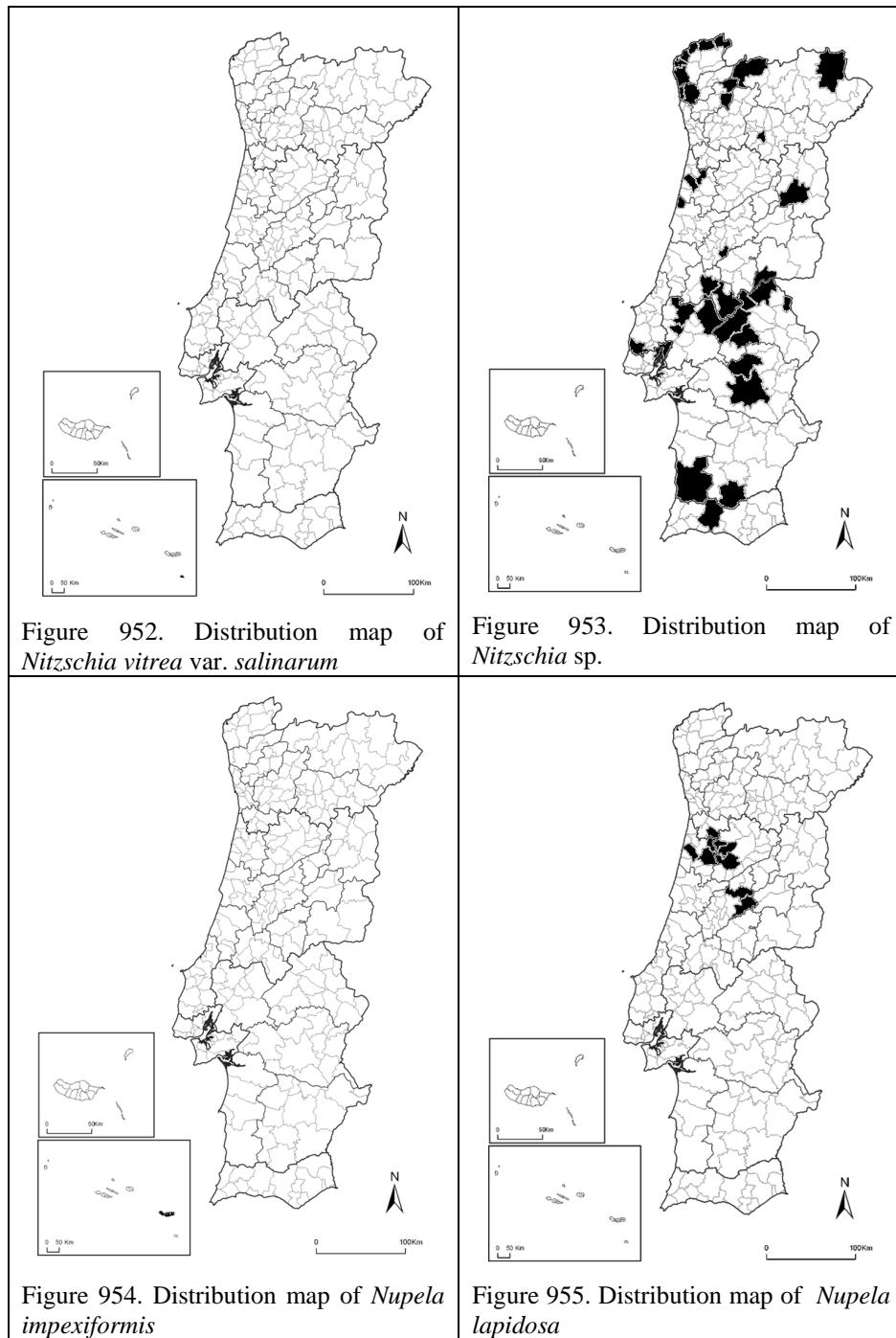


Figure 950. Distribution map of *Nitzschia vermicularis* var. *flexa*

Figure 951. Distribution map of *Nitzschia vitrea*



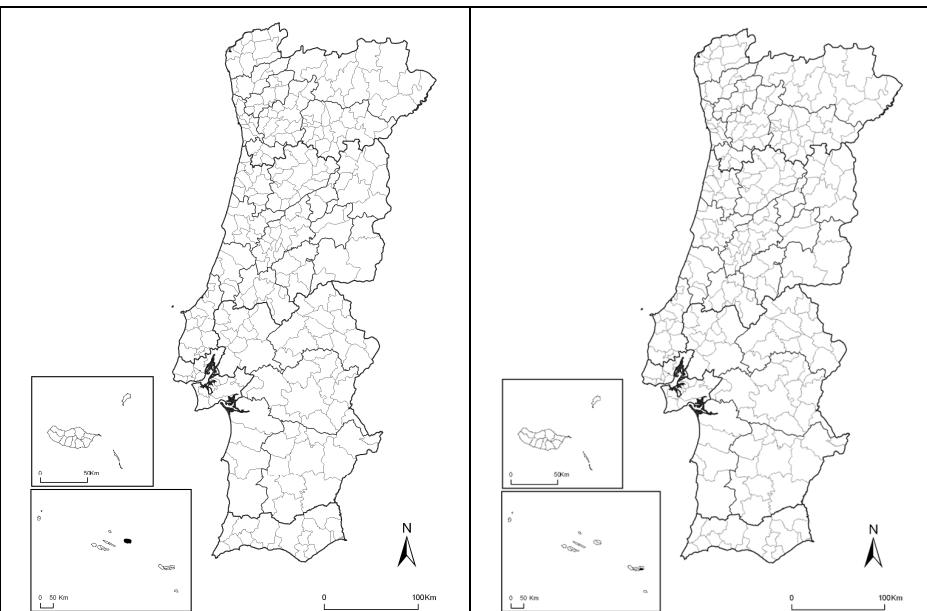


Figure 956. Distribution map of *Opephora mutabilis*

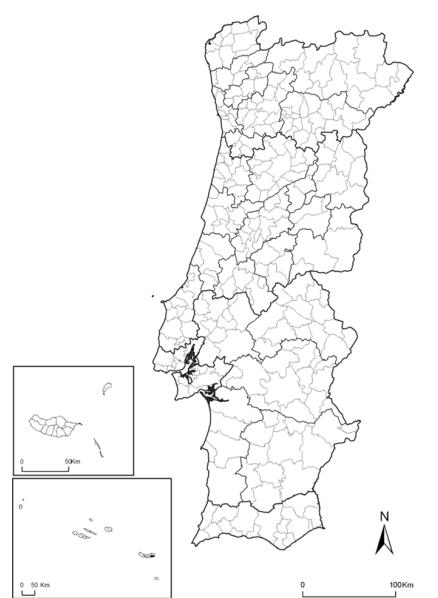


Figure 957. Distribution map of *Orthosira orichalcea*

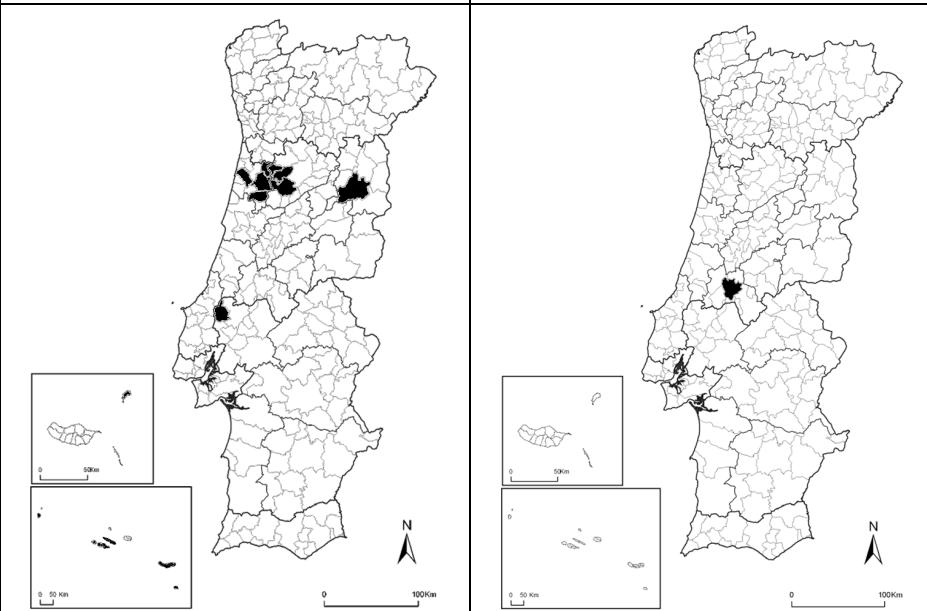


Figure 958. Distribution map of *Orthosira roeseana*

Figure 959. Distribution map of *Paralia sulcata*

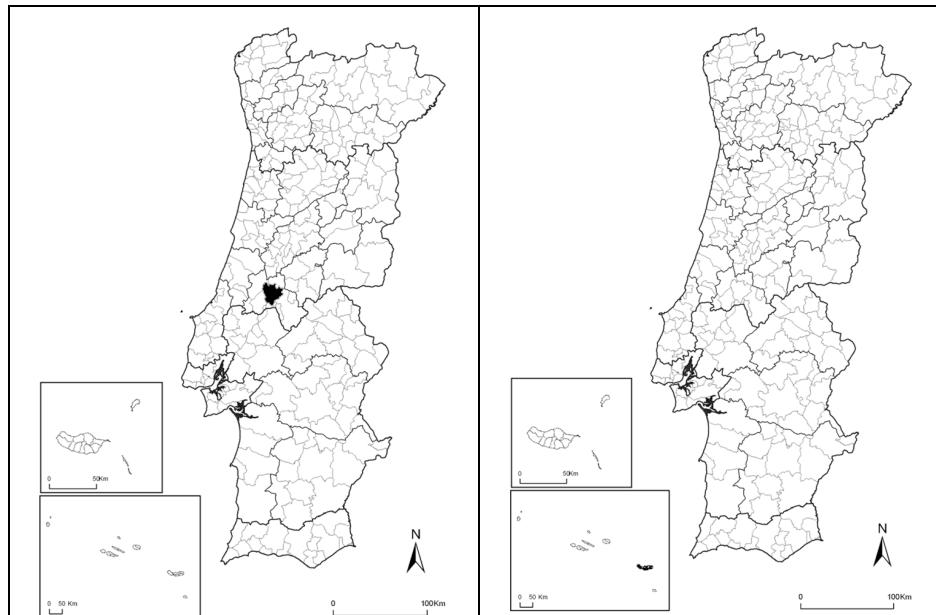


Figure 960. Distribution map of *Parlibellus crucicula*

Figure 961. Distribution map of *Parlibellus protracta*

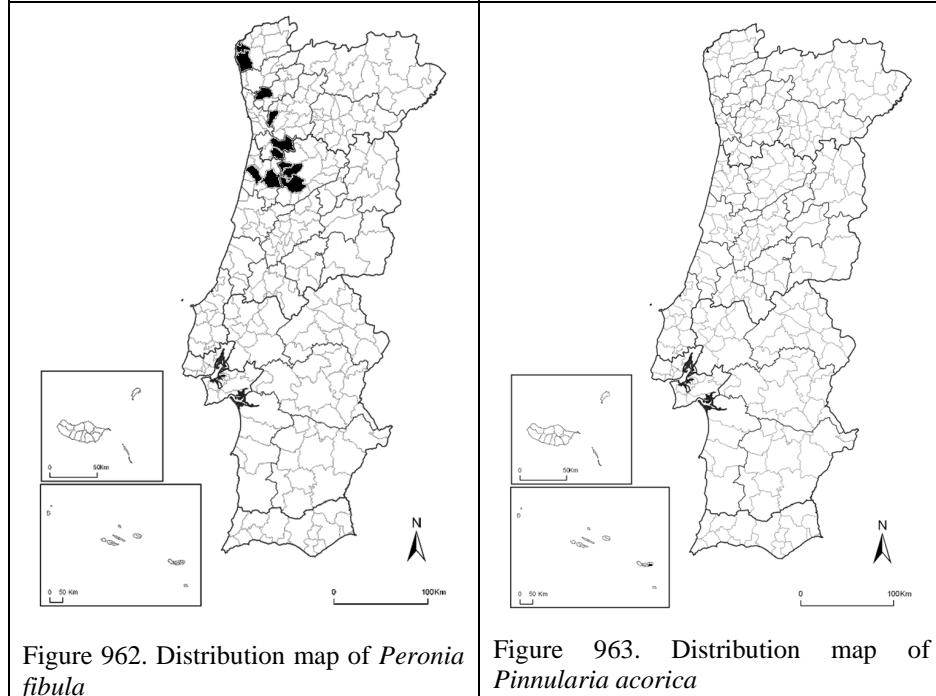
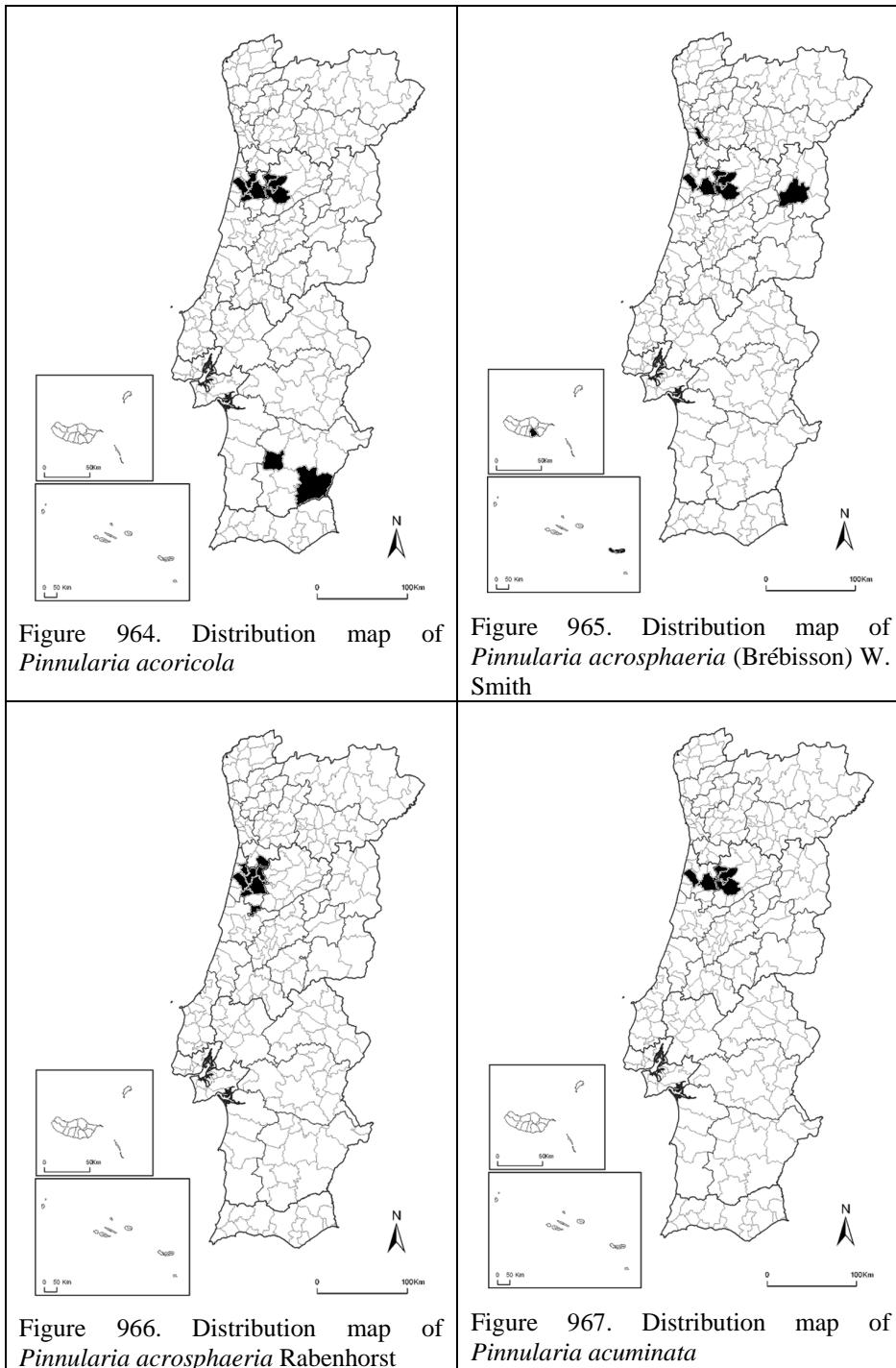
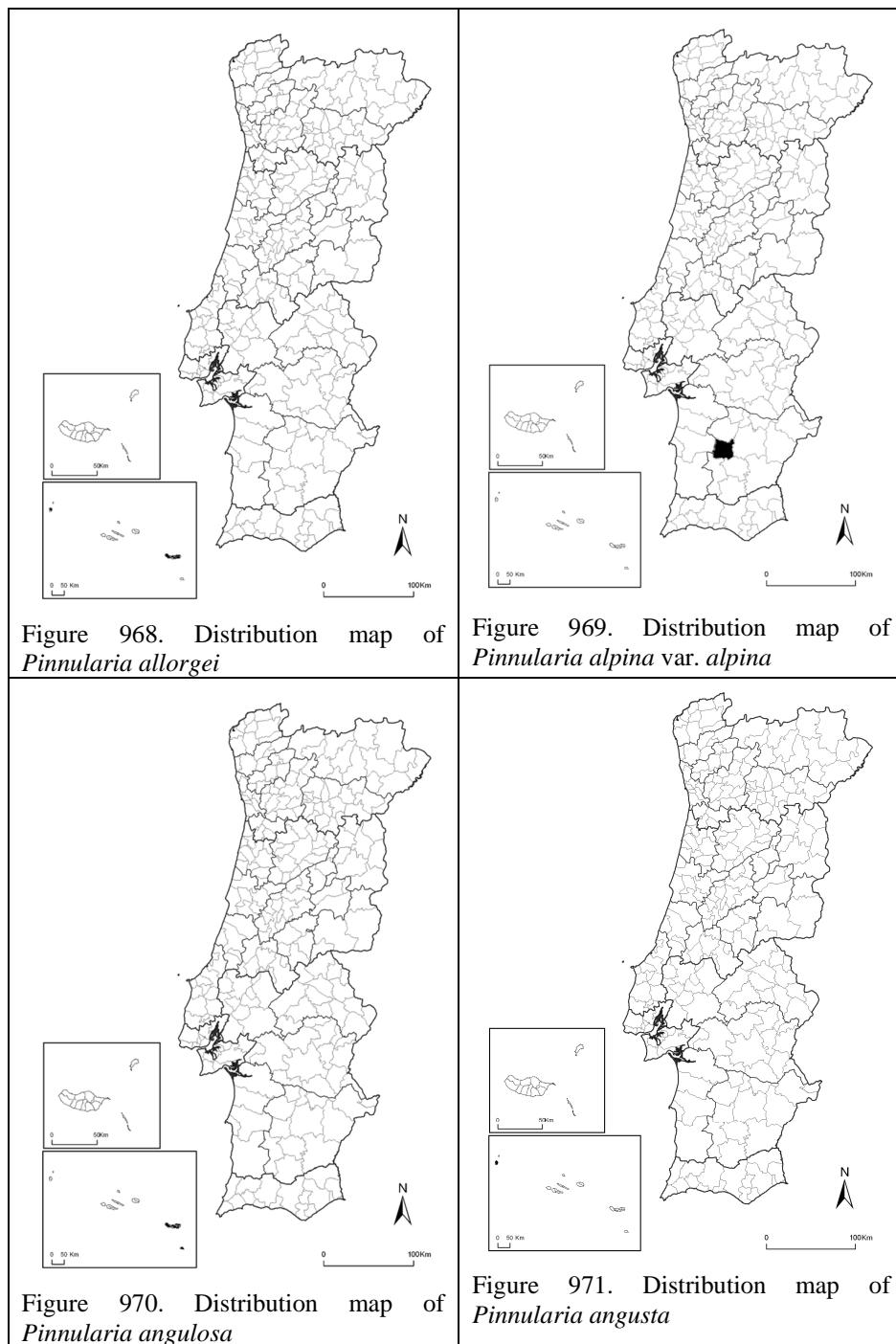


Figure 962. Distribution map of *Peronia fibula*

Figure 963. Distribution map of *Pinnularia acorica*





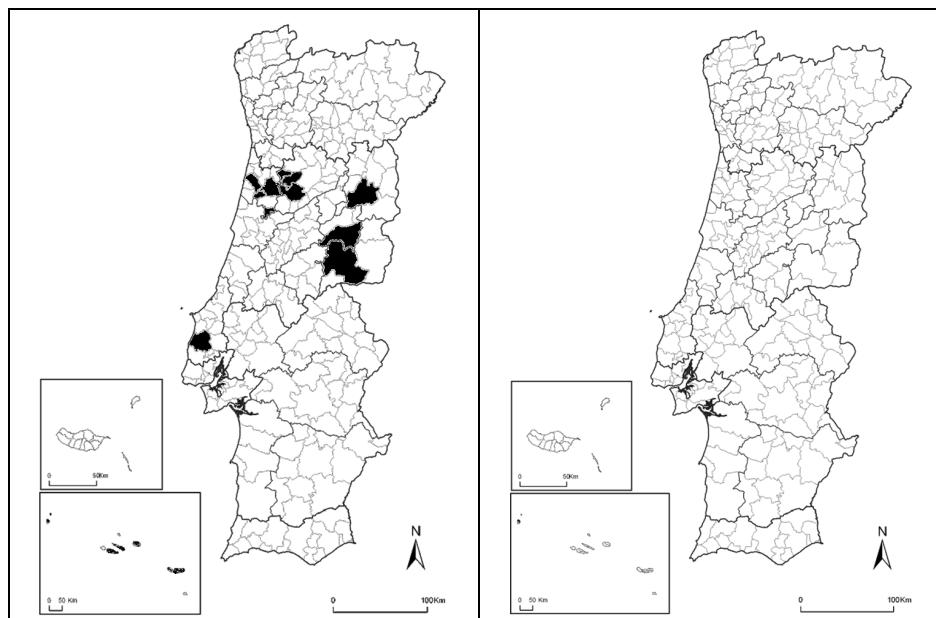


Figure 972. Distribution map of *Pinnularia appendiculata*

Figure 973. Distribution map of *Pinnularia appendiculata* f. *constricta*

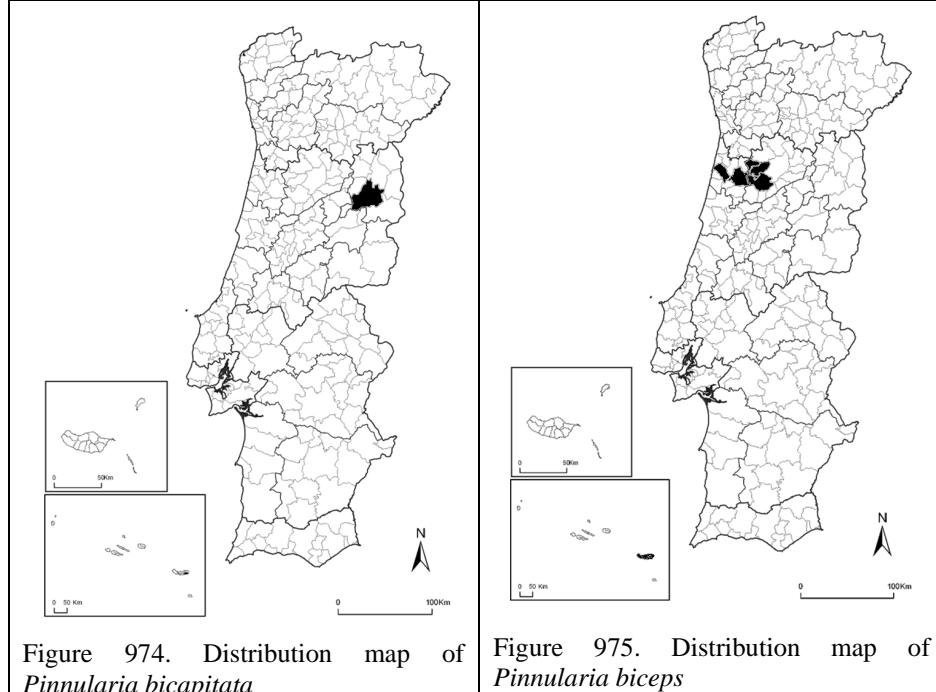


Figure 974. Distribution map of *Pinnularia bicapitata*

Figure 975. Distribution map of *Pinnularia biceps*

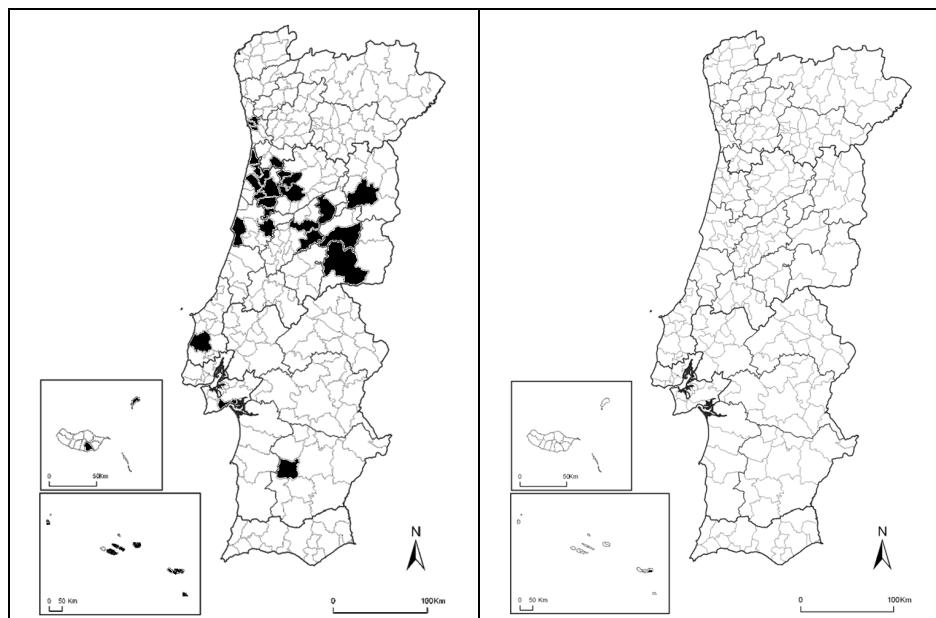


Figure 976. Distribution map of *Pinnularia borealis*

Figure 977. Distribution map of *Pinnularia borealis* f. *elongata*

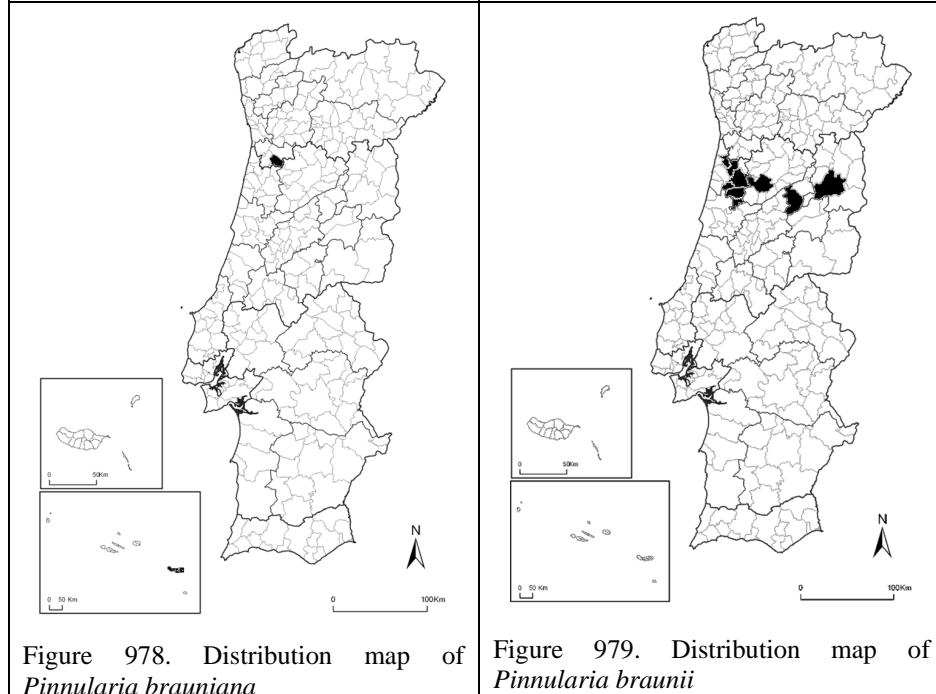


Figure 978. Distribution map of *Pinnularia brauniana*

Figure 979. Distribution map of *Pinnularia braunii*

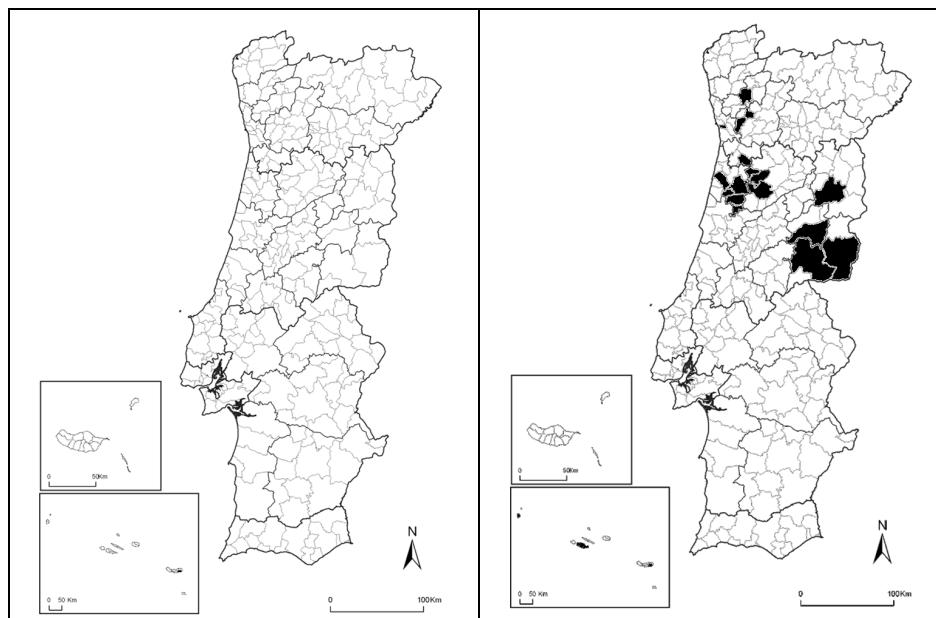


Figure 980. Distribution map of *Pinnularia braunii* var. *amphicephala*

Figure 981. Distribution map of *Pinnularia brebissonii*

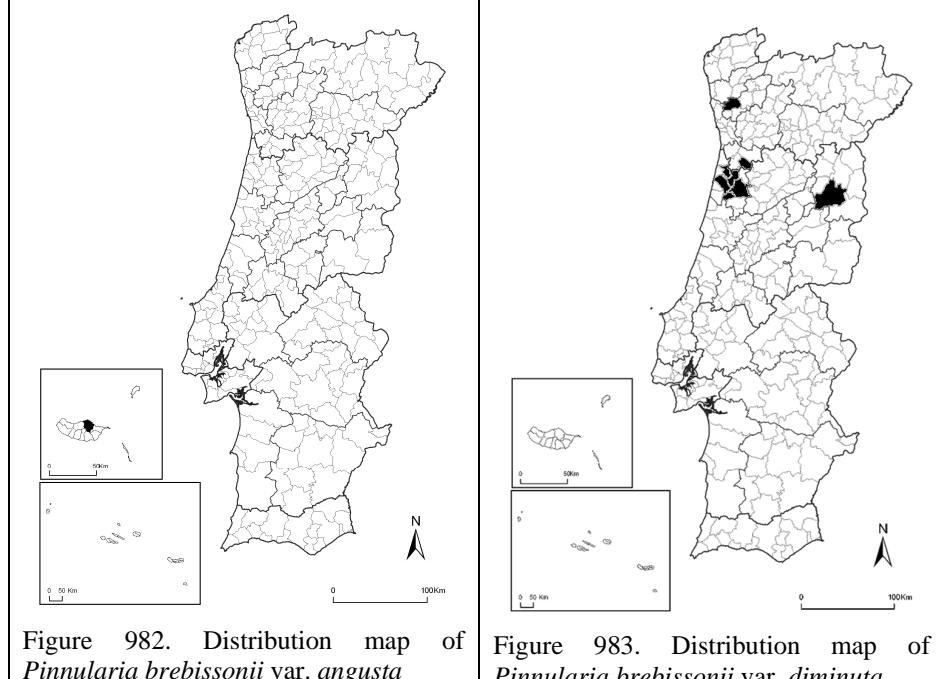
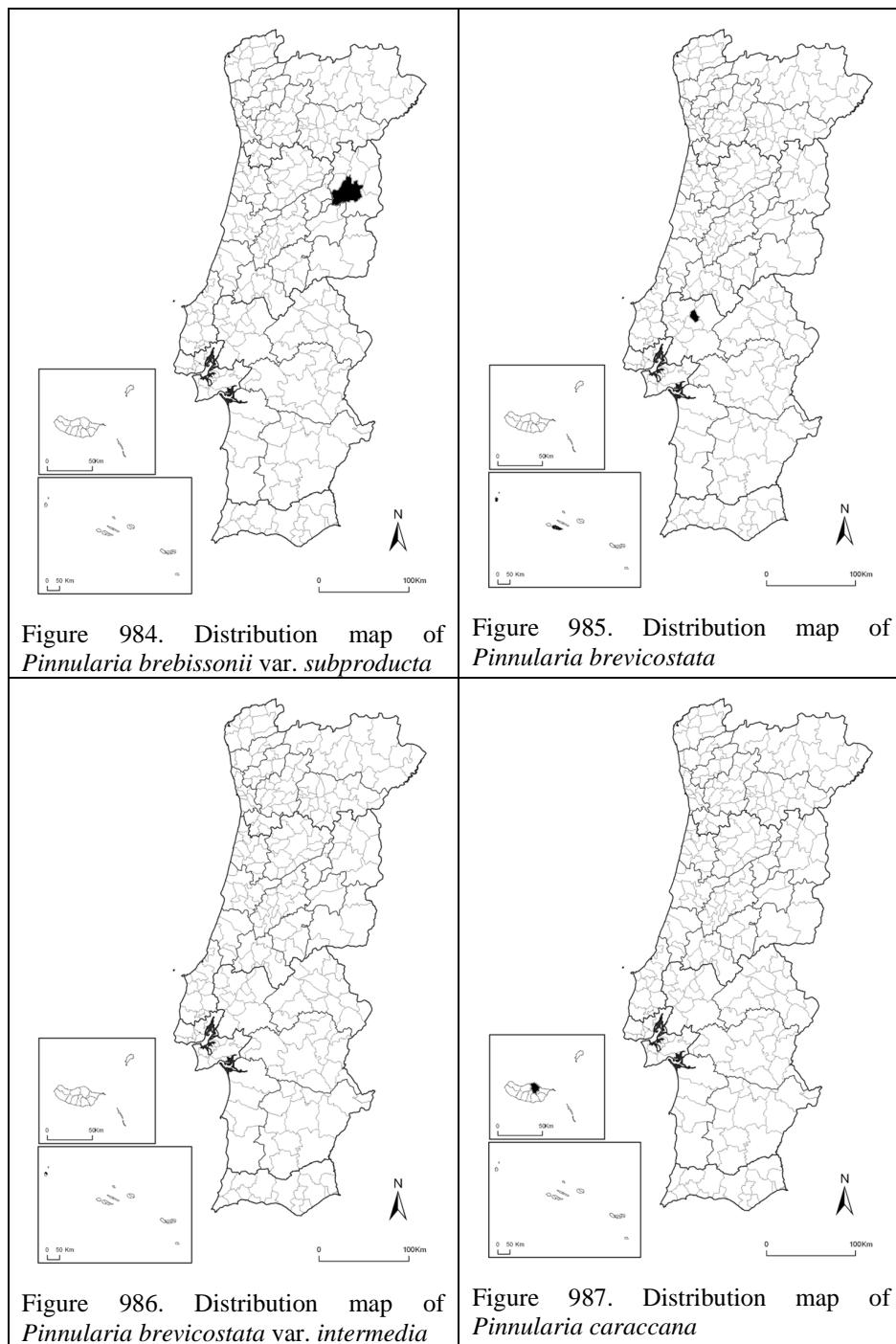


Figure 982. Distribution map of *Pinnularia brebissonii* var. *angusta*

Figure 983. Distribution map of *Pinnularia brebissonii* var. *diminuta*



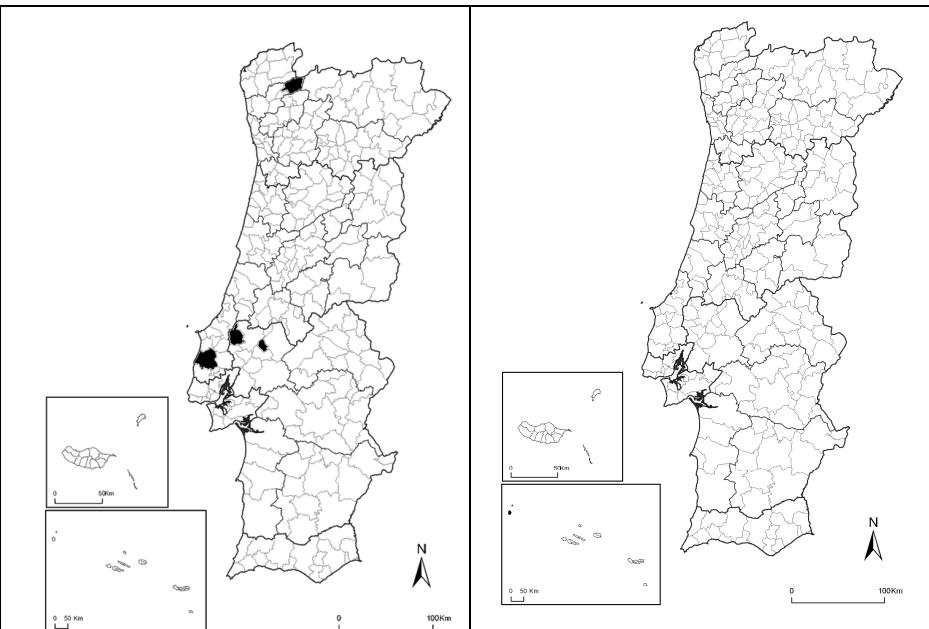


Figure 988. Distribution map of *Pinnularia dactylus*

Figure 989. Distribution map of *Pinnularia decrescens*

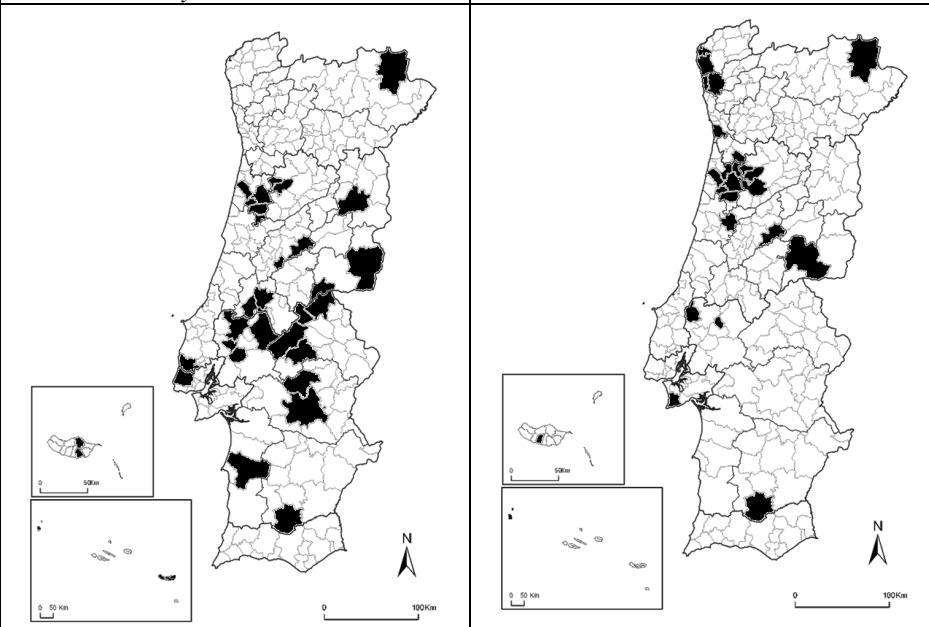
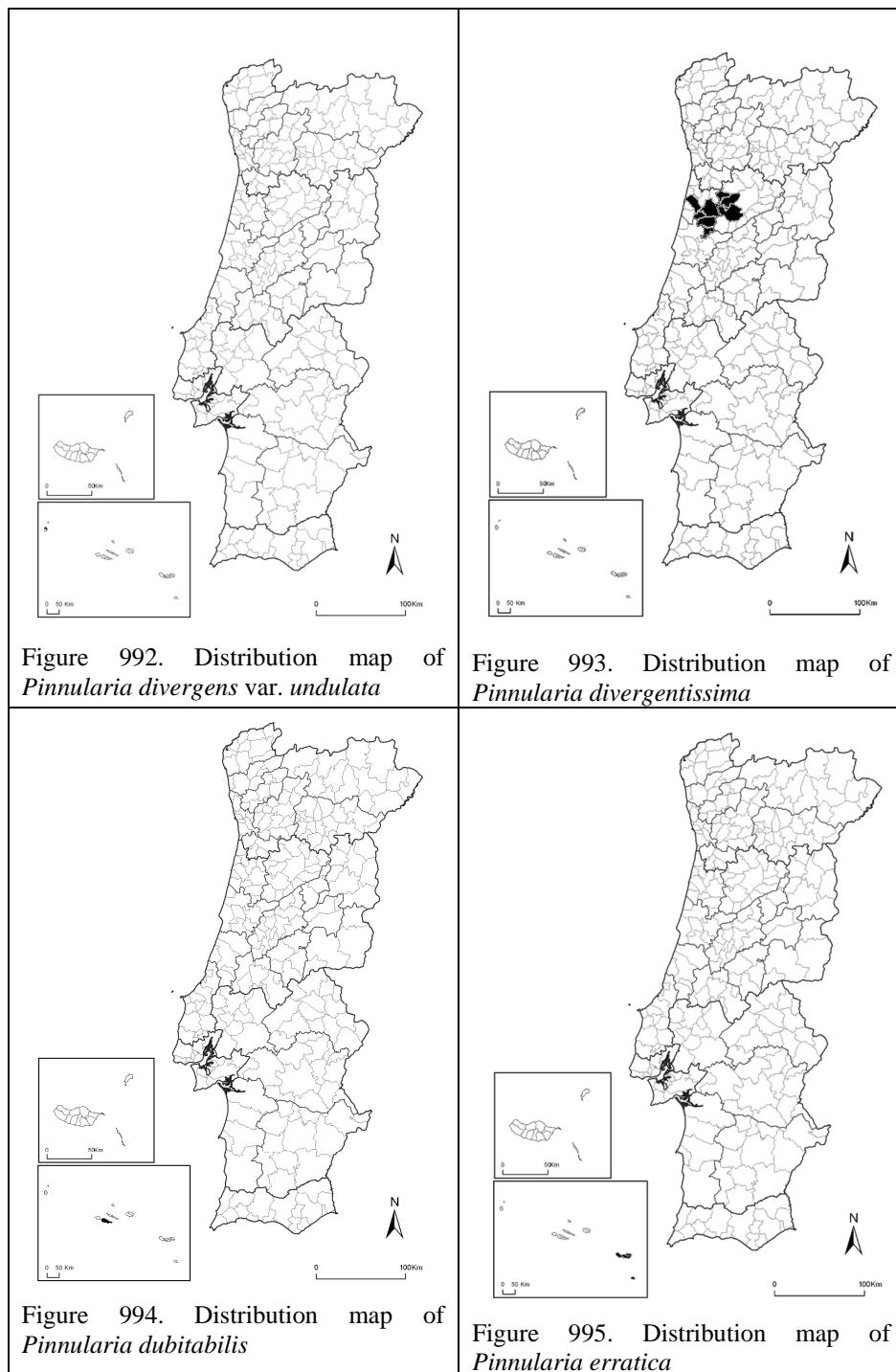
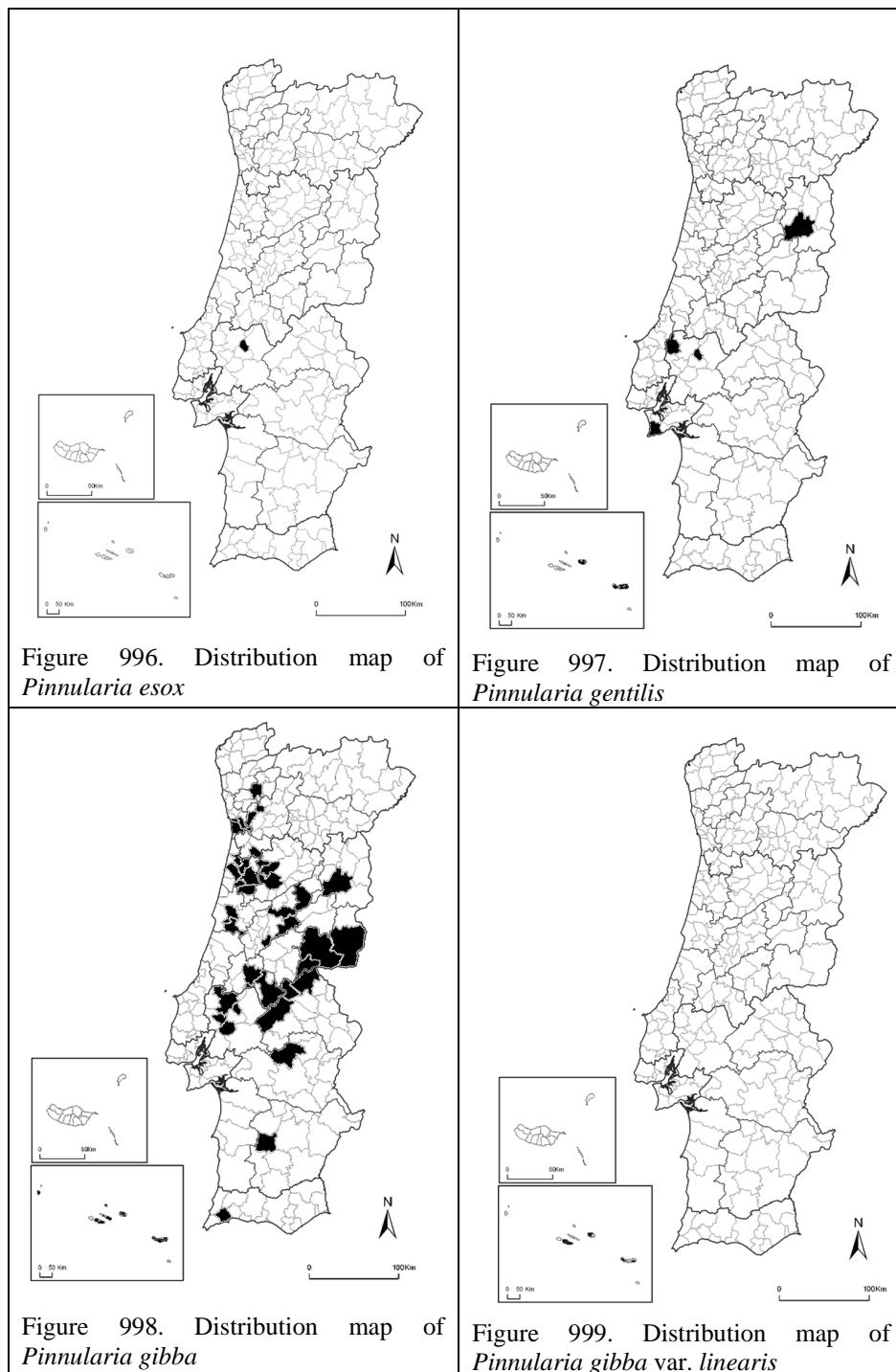
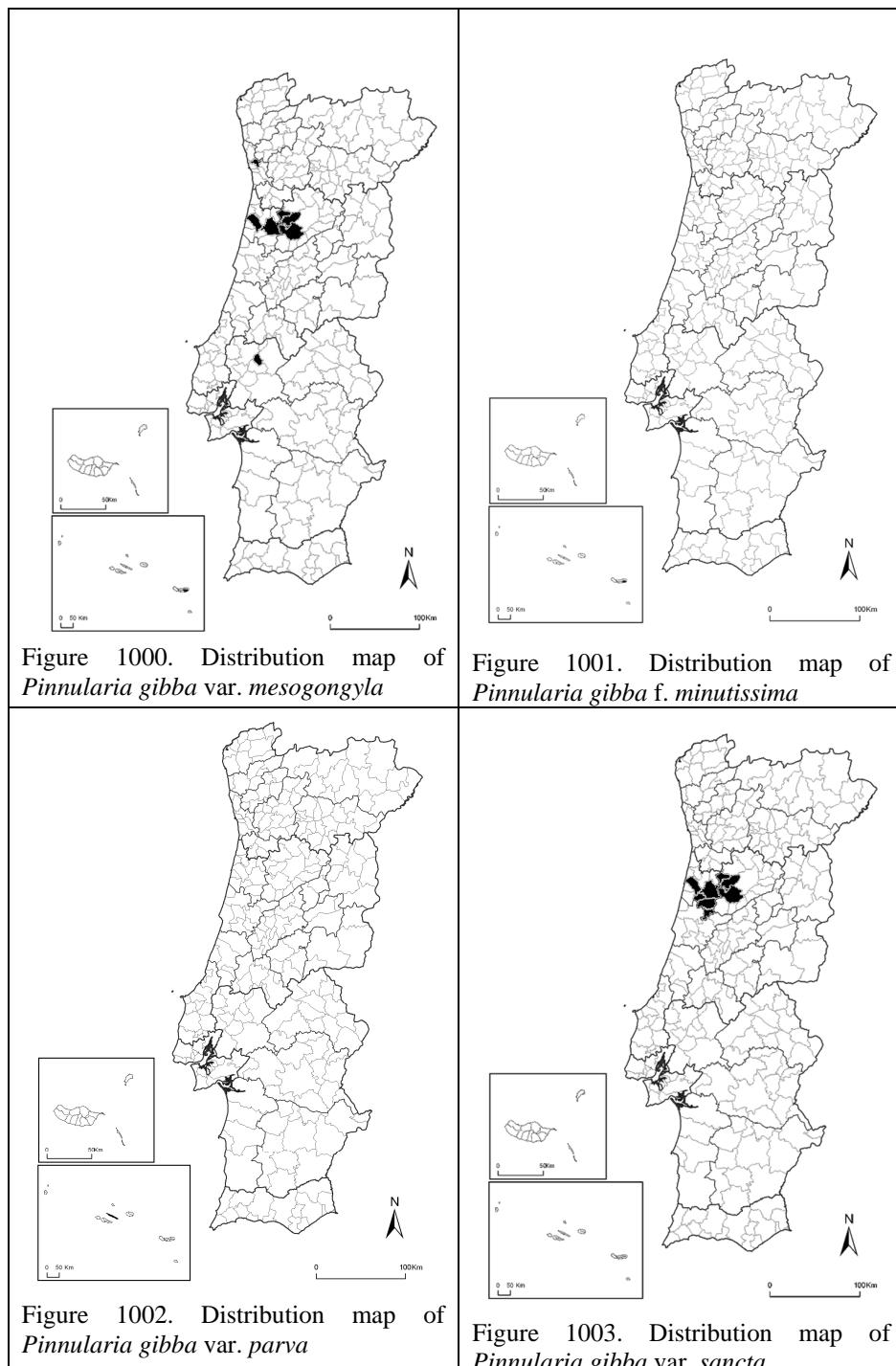


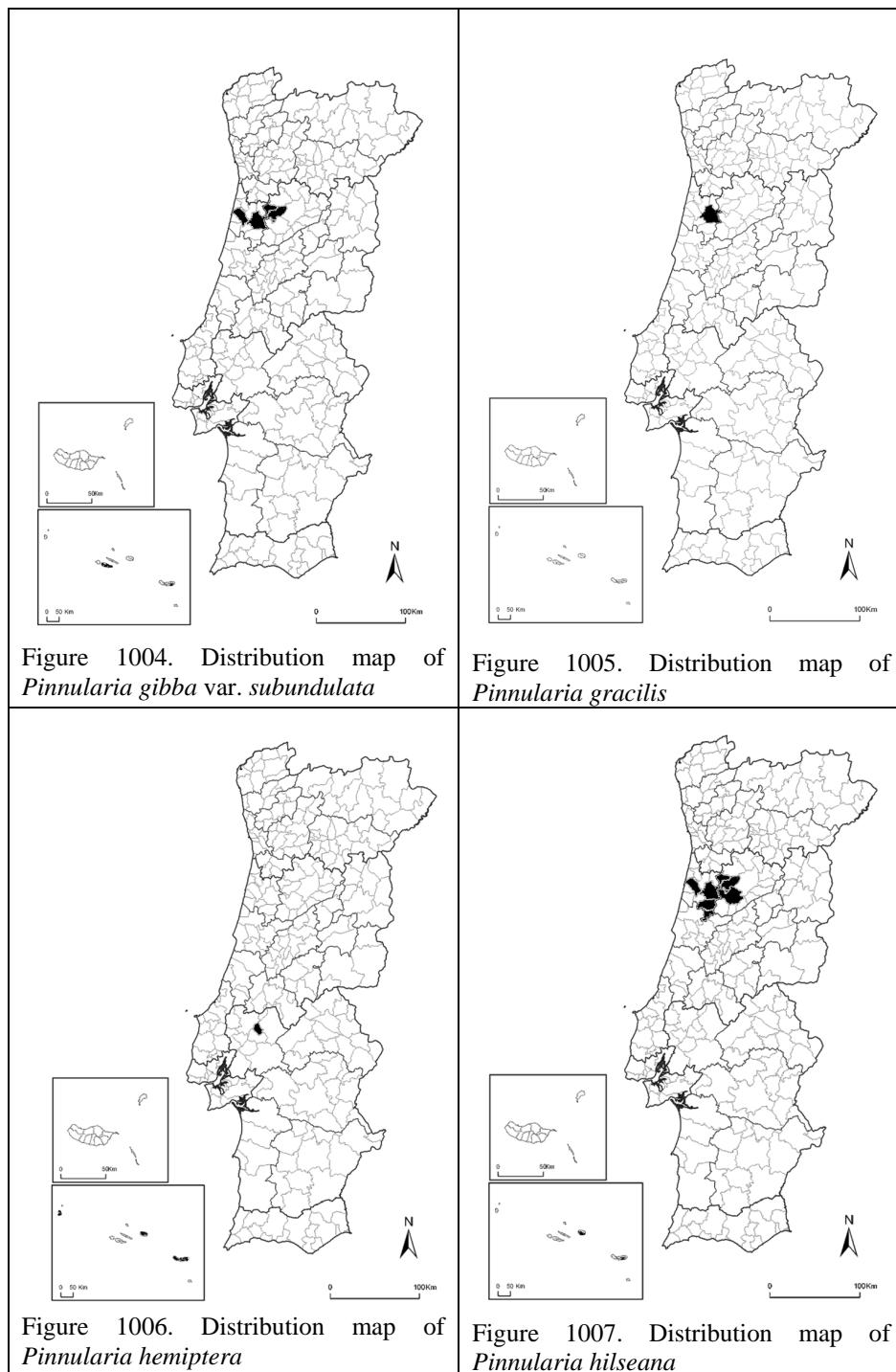
Figure 990. Distribution map of *Pinnularia dicephala*

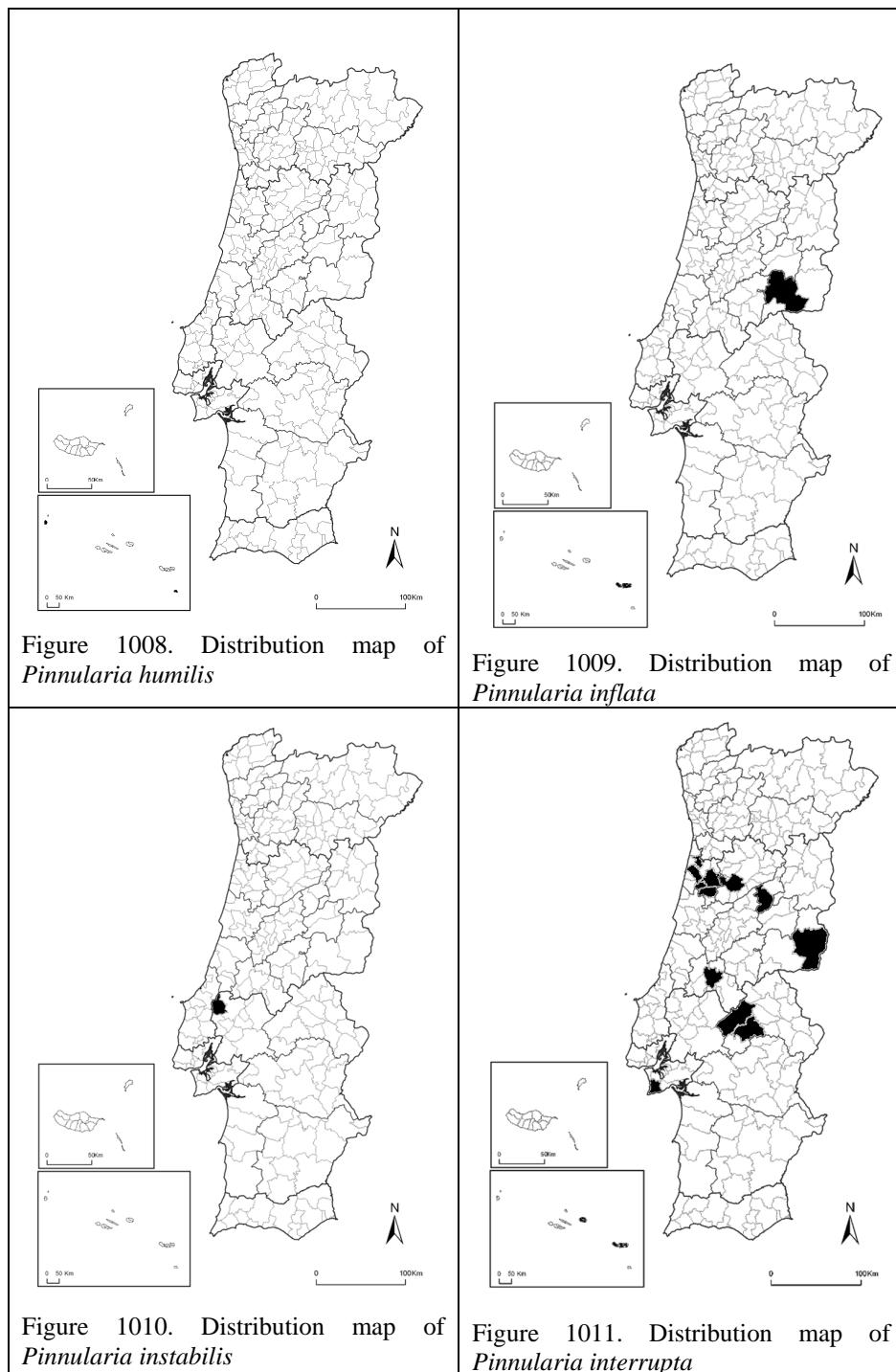
Figure 991. Distribution map of *Pinnularia divergens*

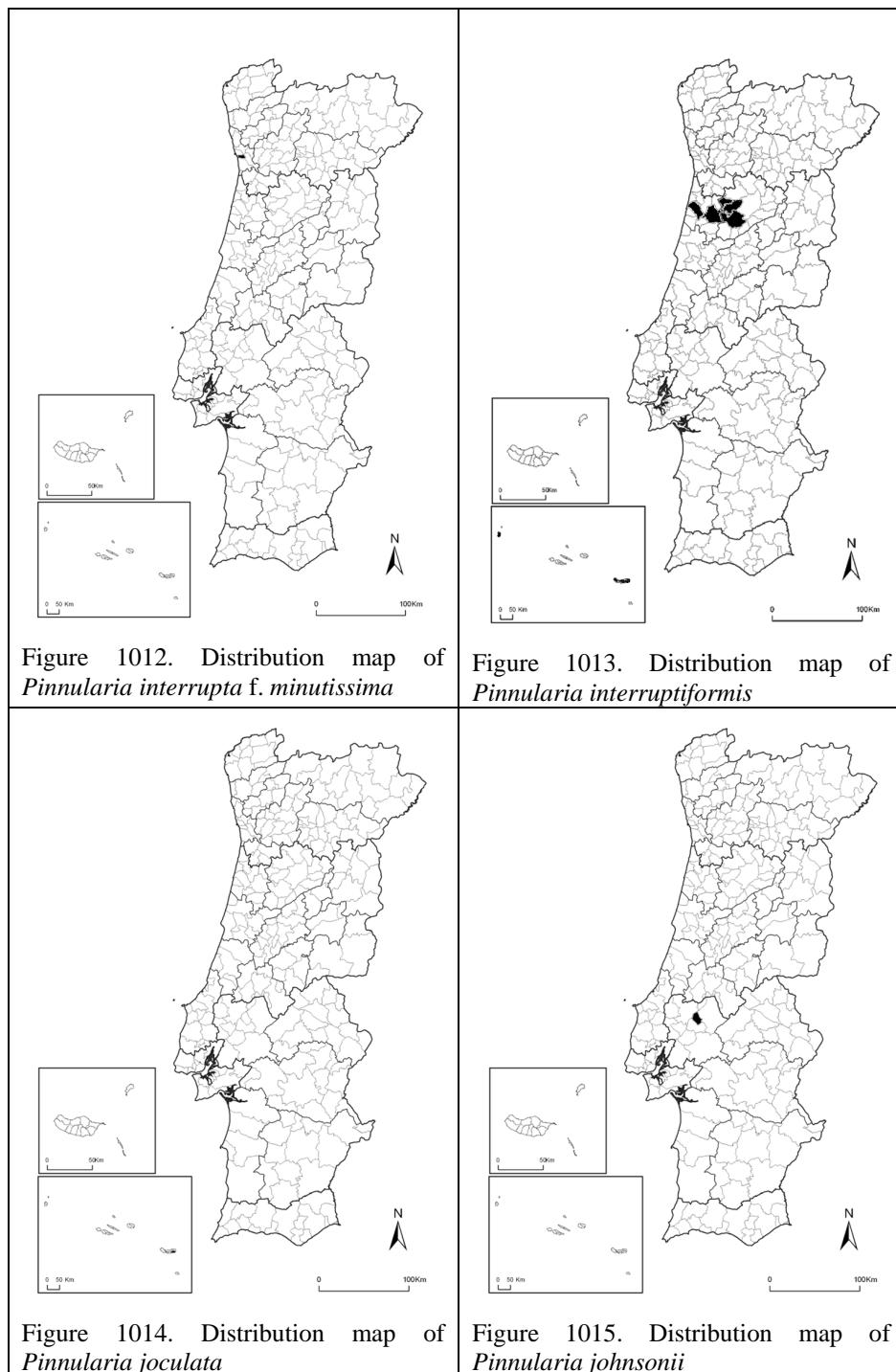


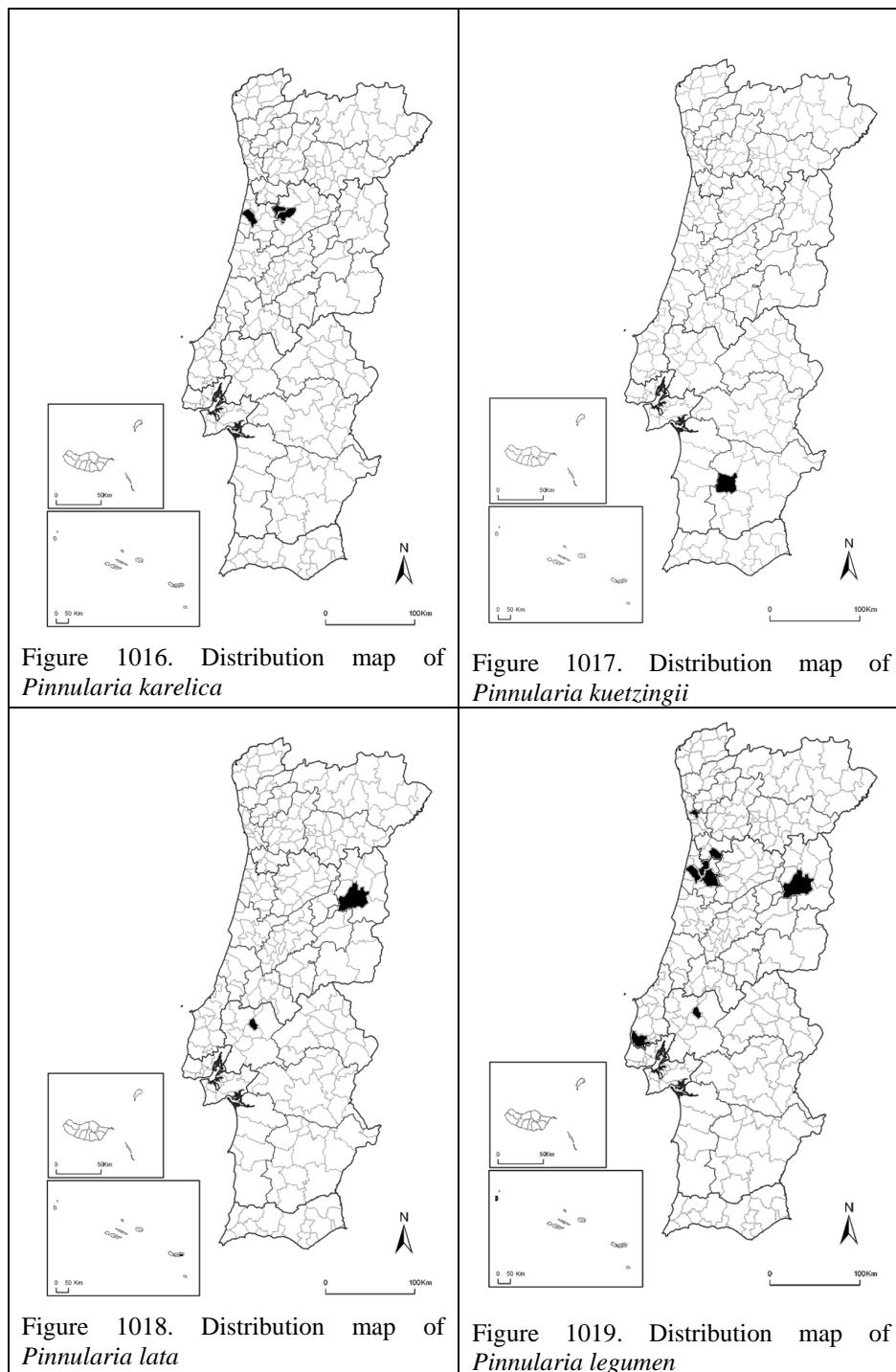


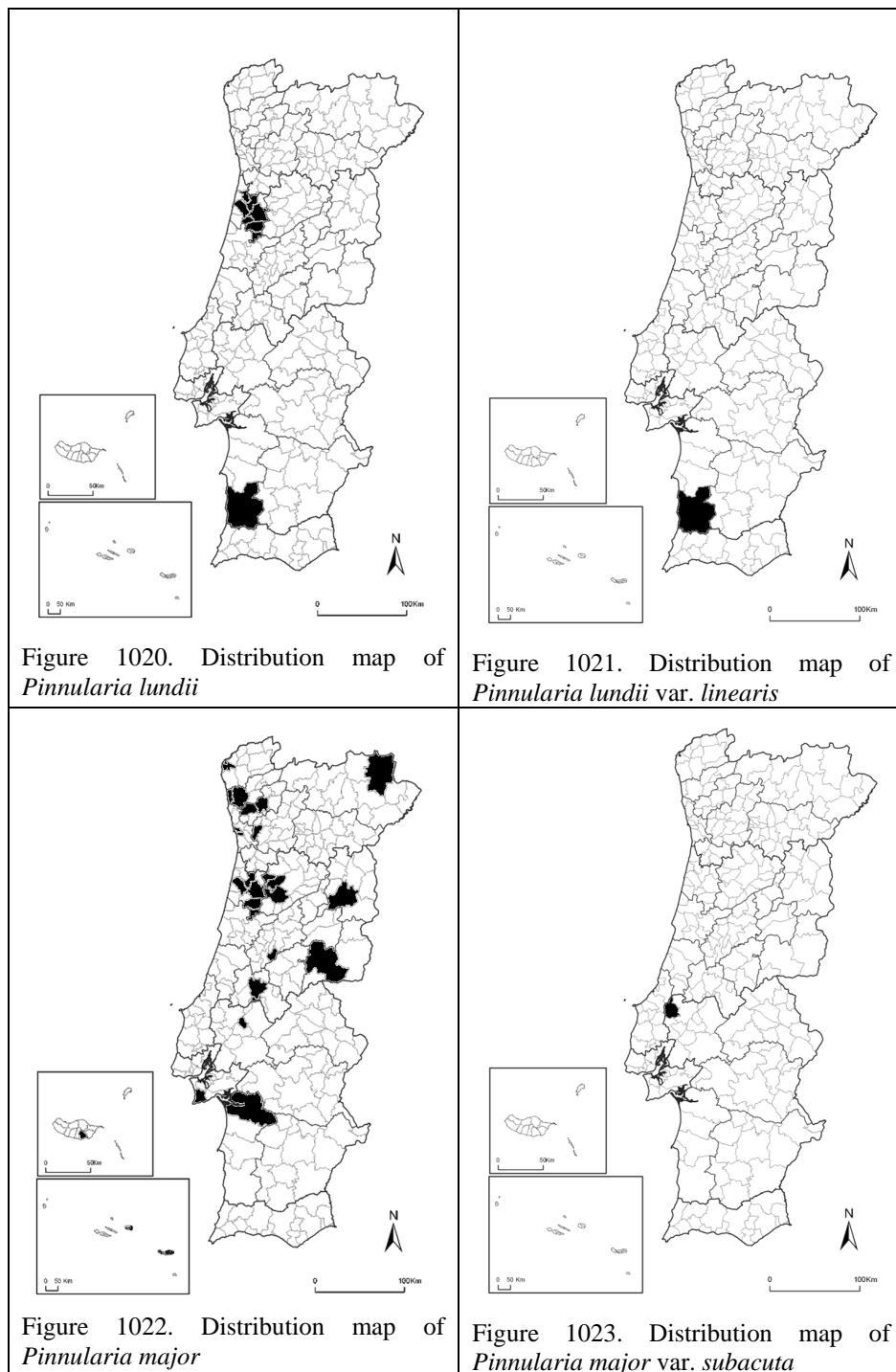


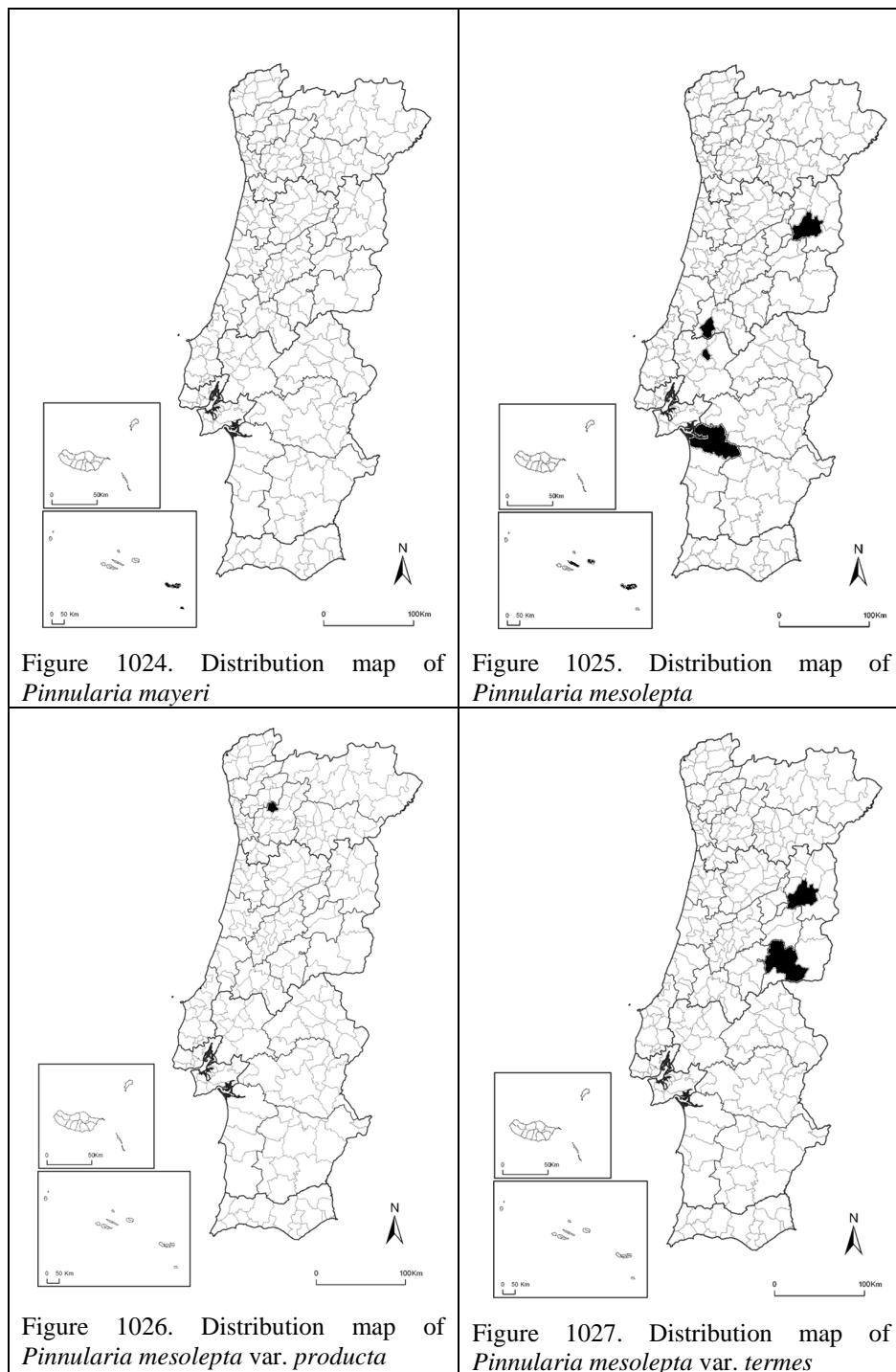


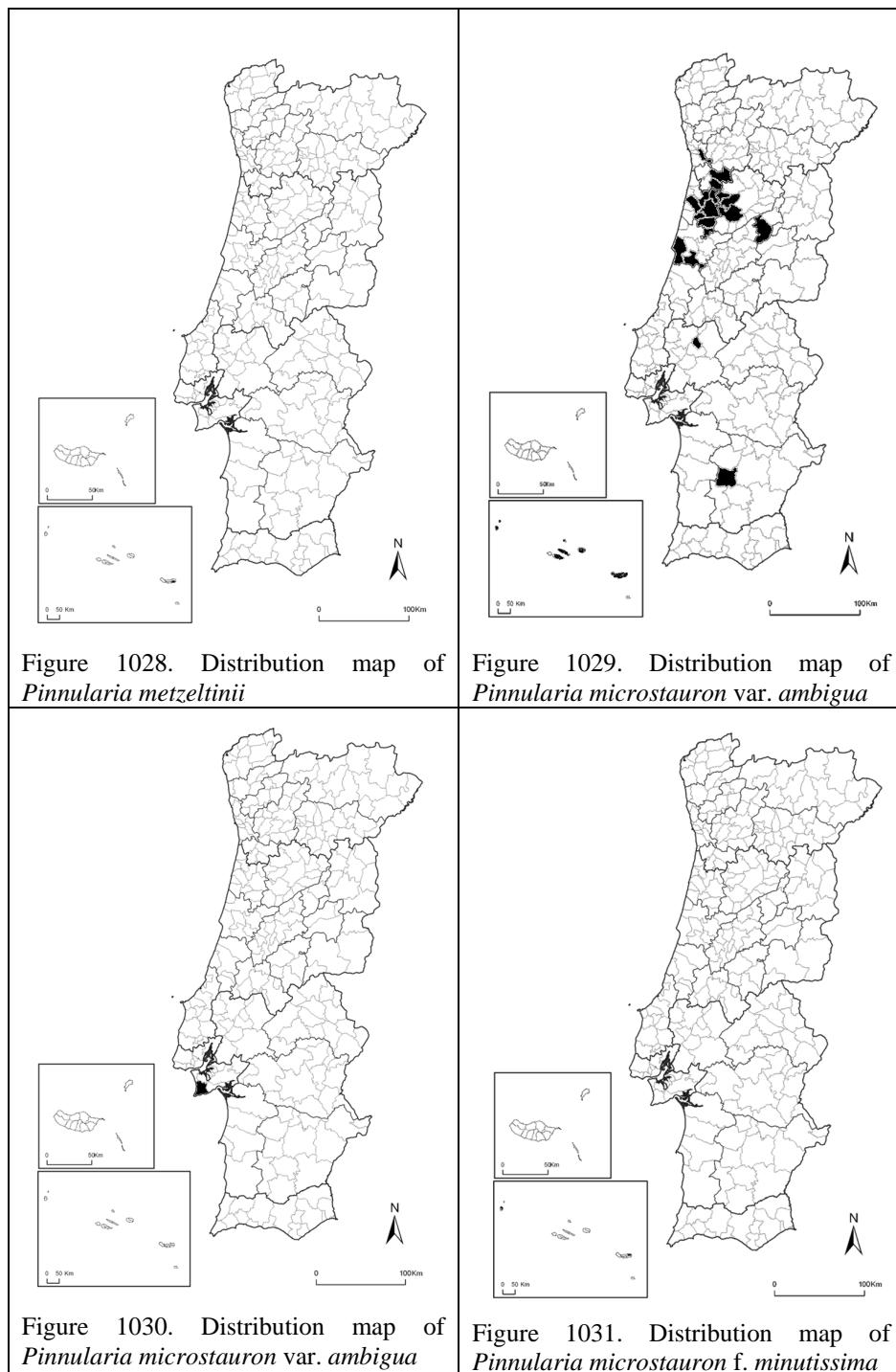


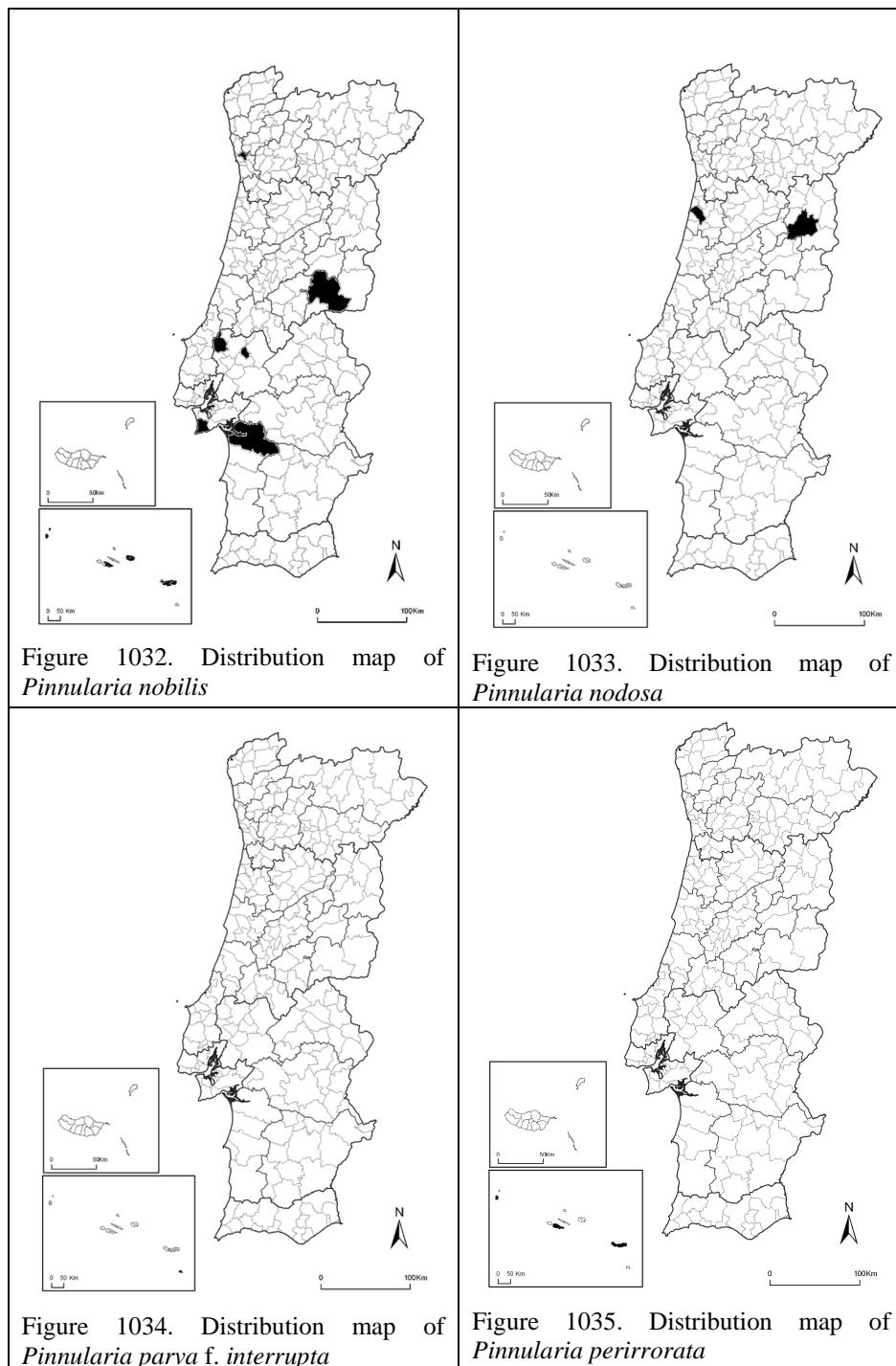


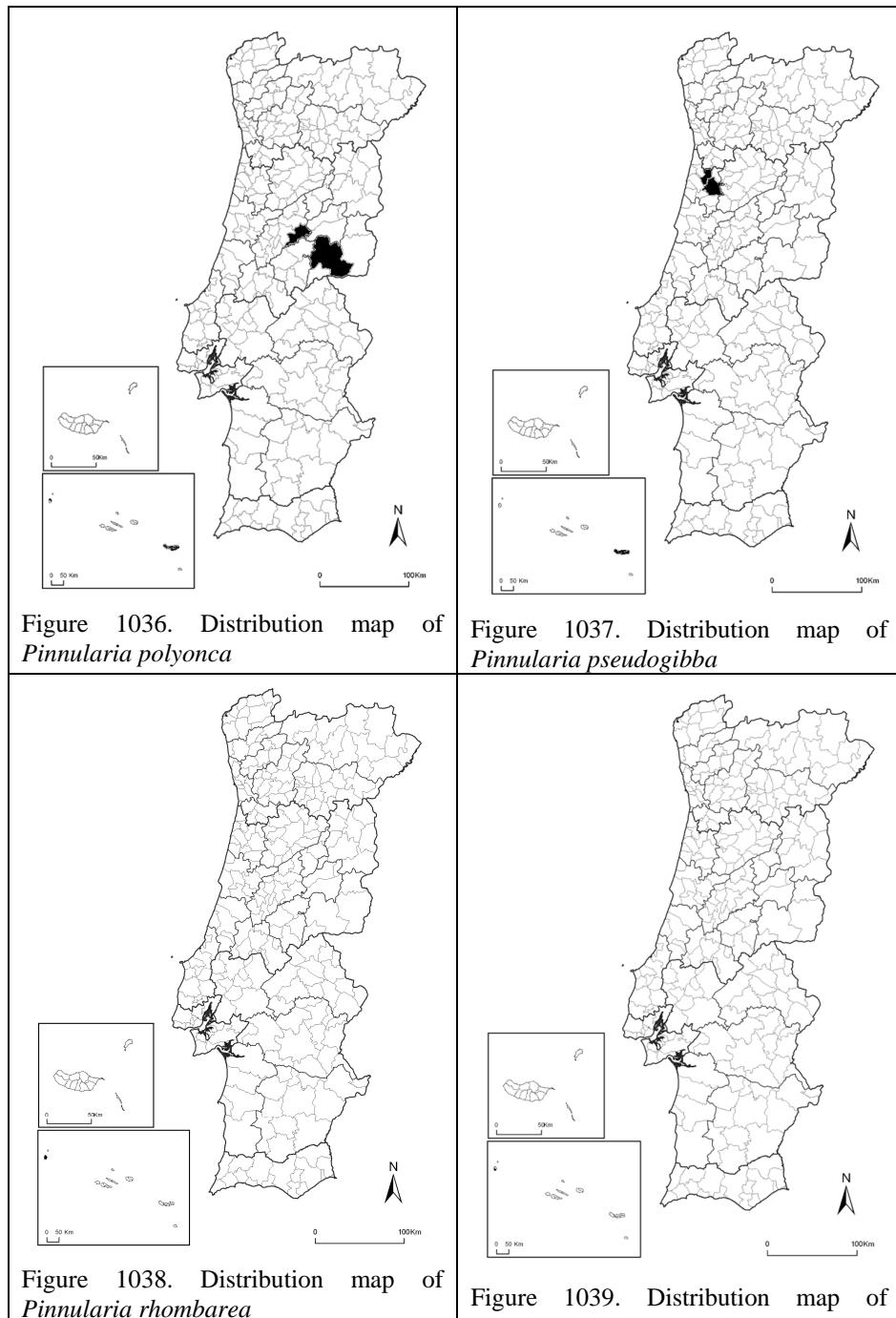


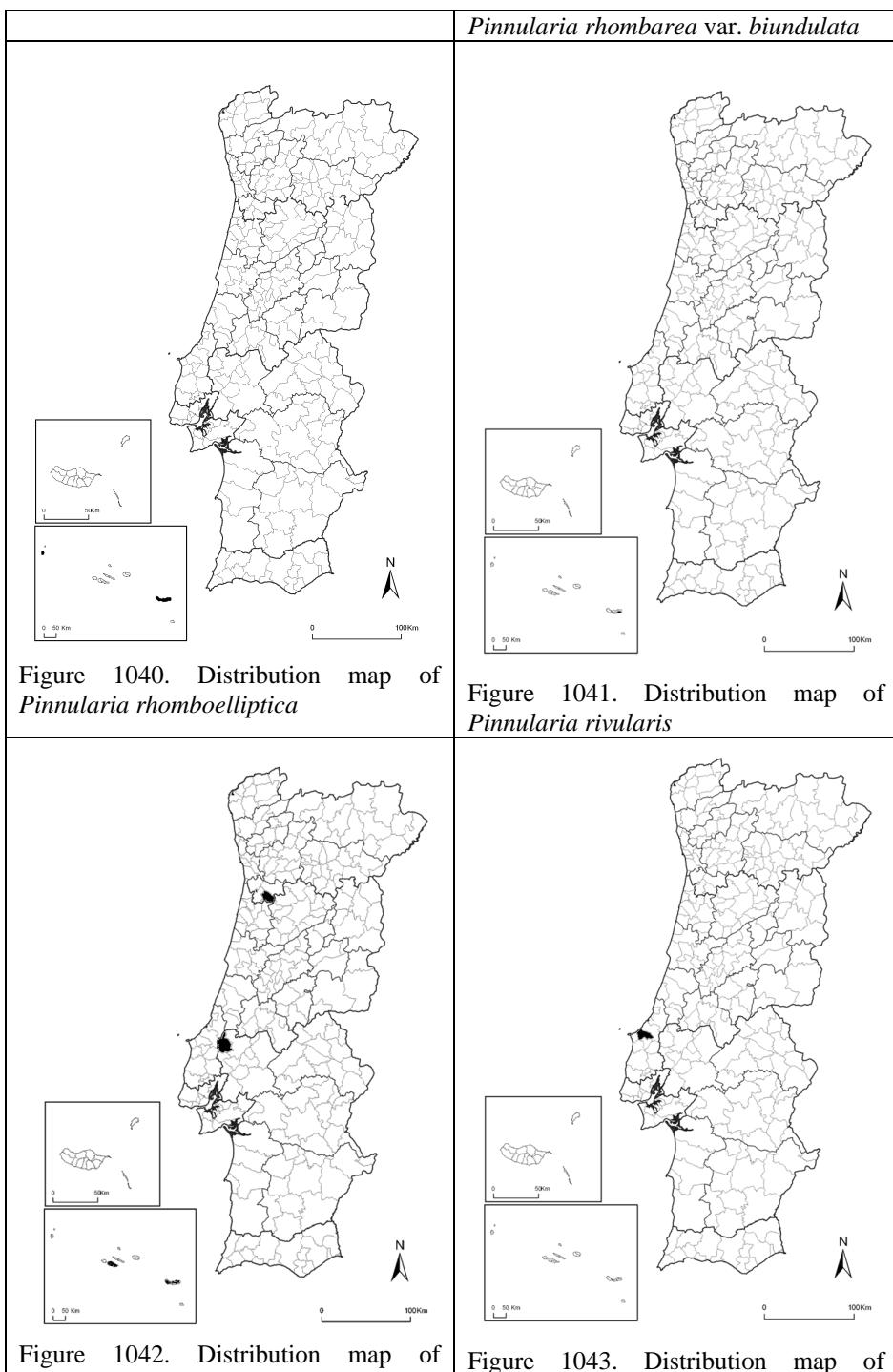


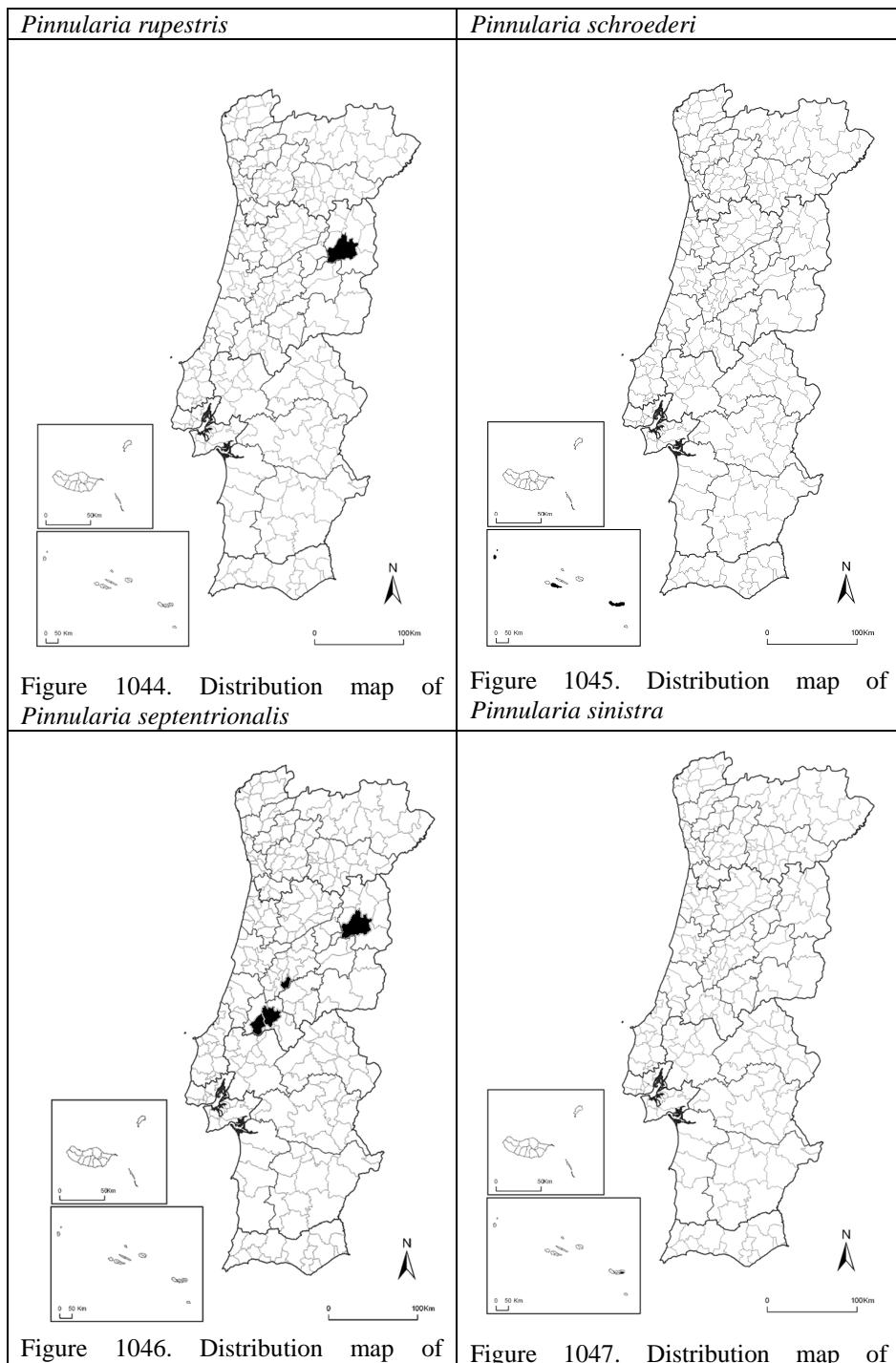












Pinnularia stauroptera

Pinnularia stauroptera var. *interrupta*

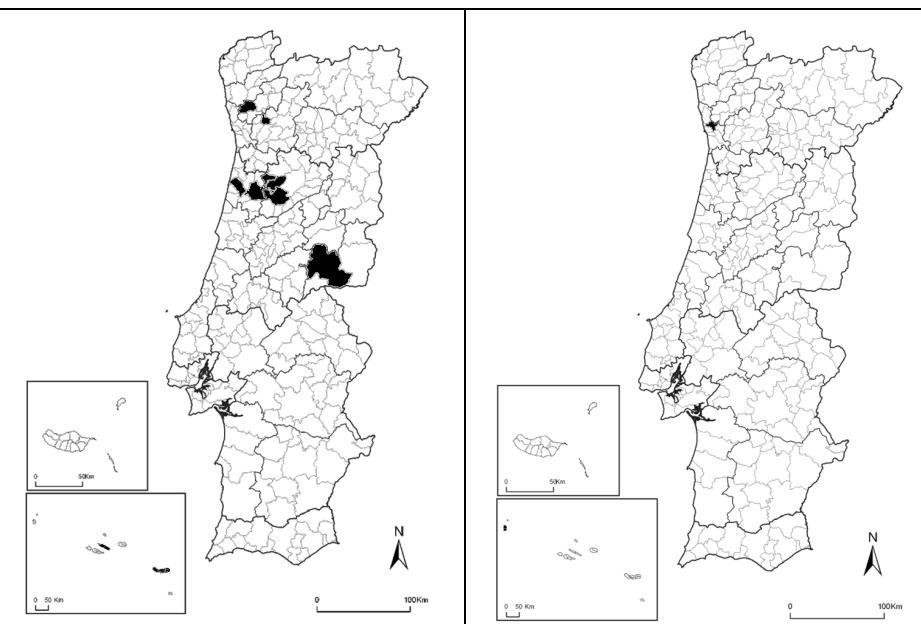


Figure 1048. Distribution map of *Pinnularia stomatophora*

Figure 1049. Distribution map of *Pinnularia streptoraphe*

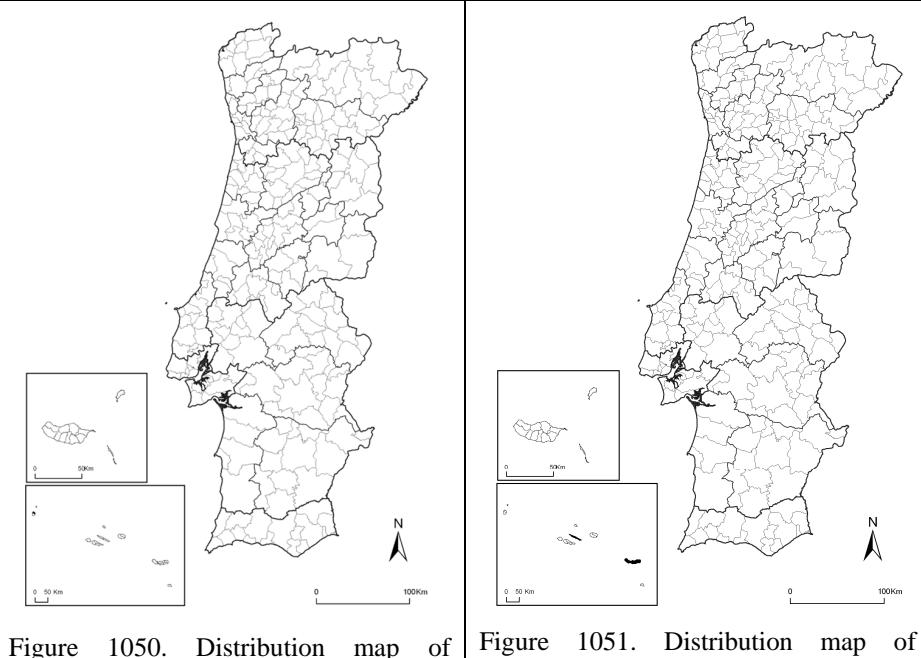
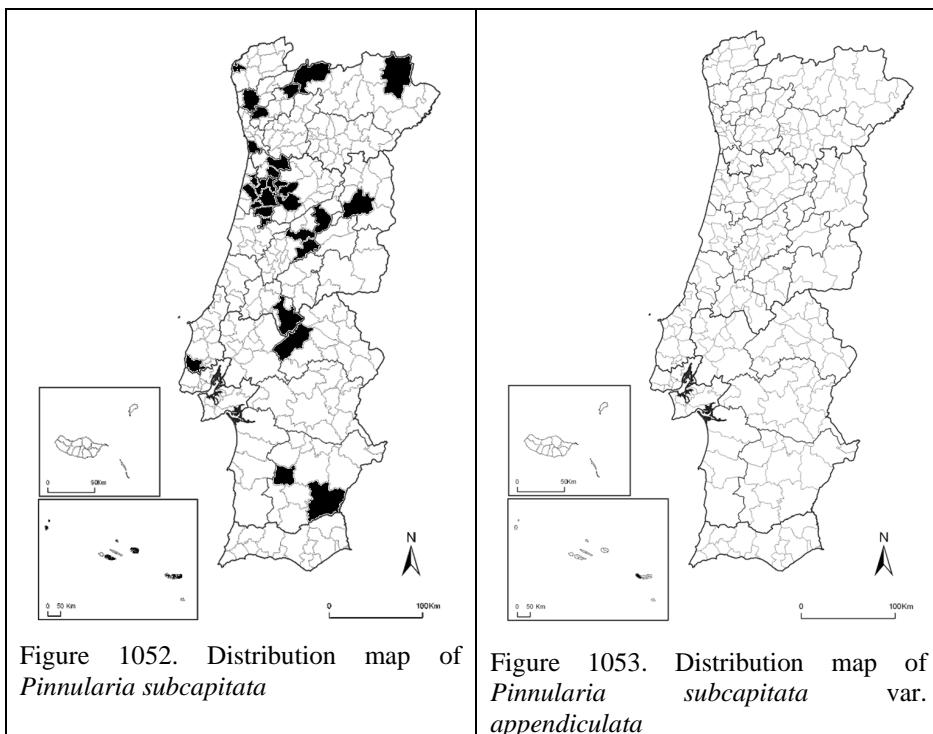
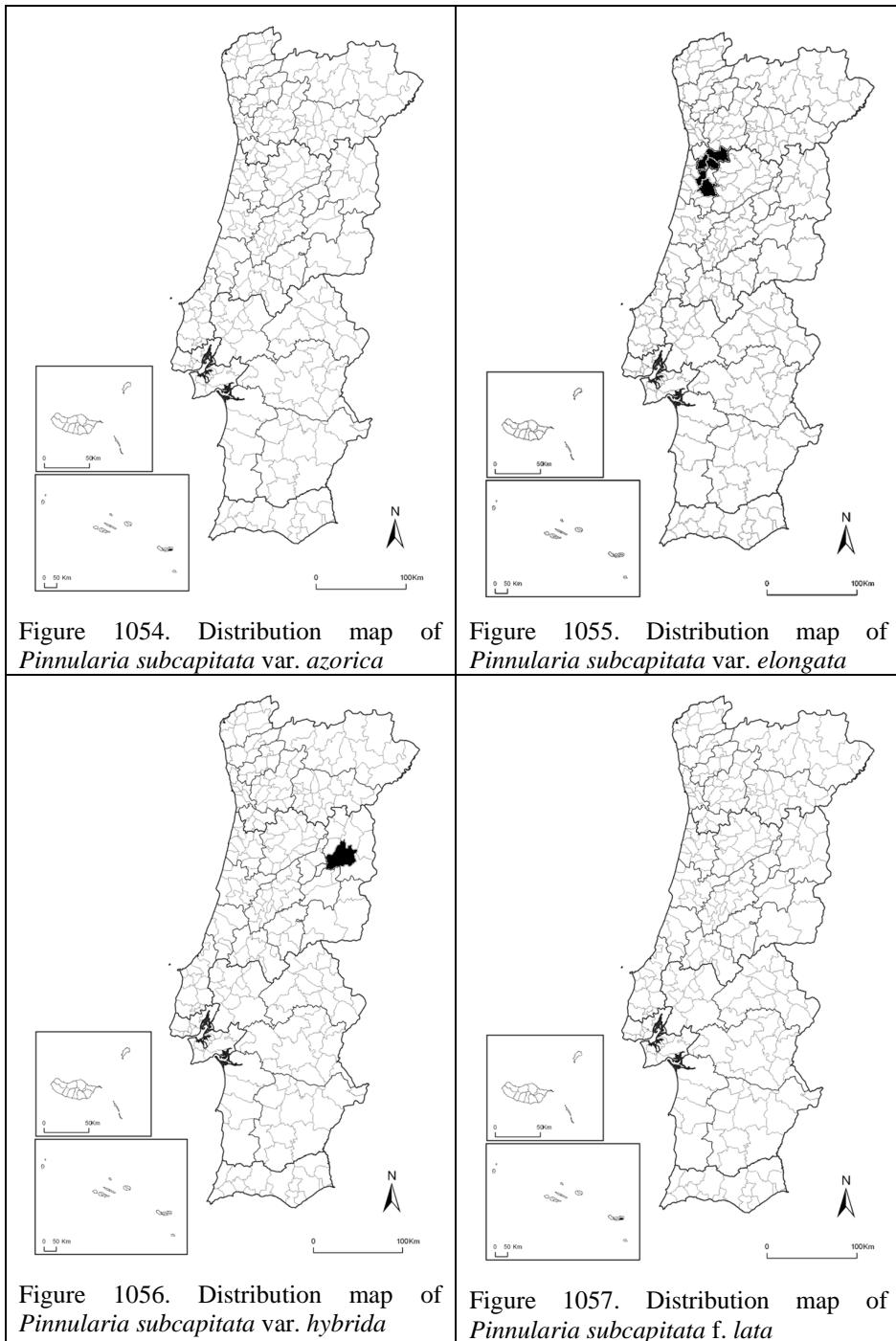
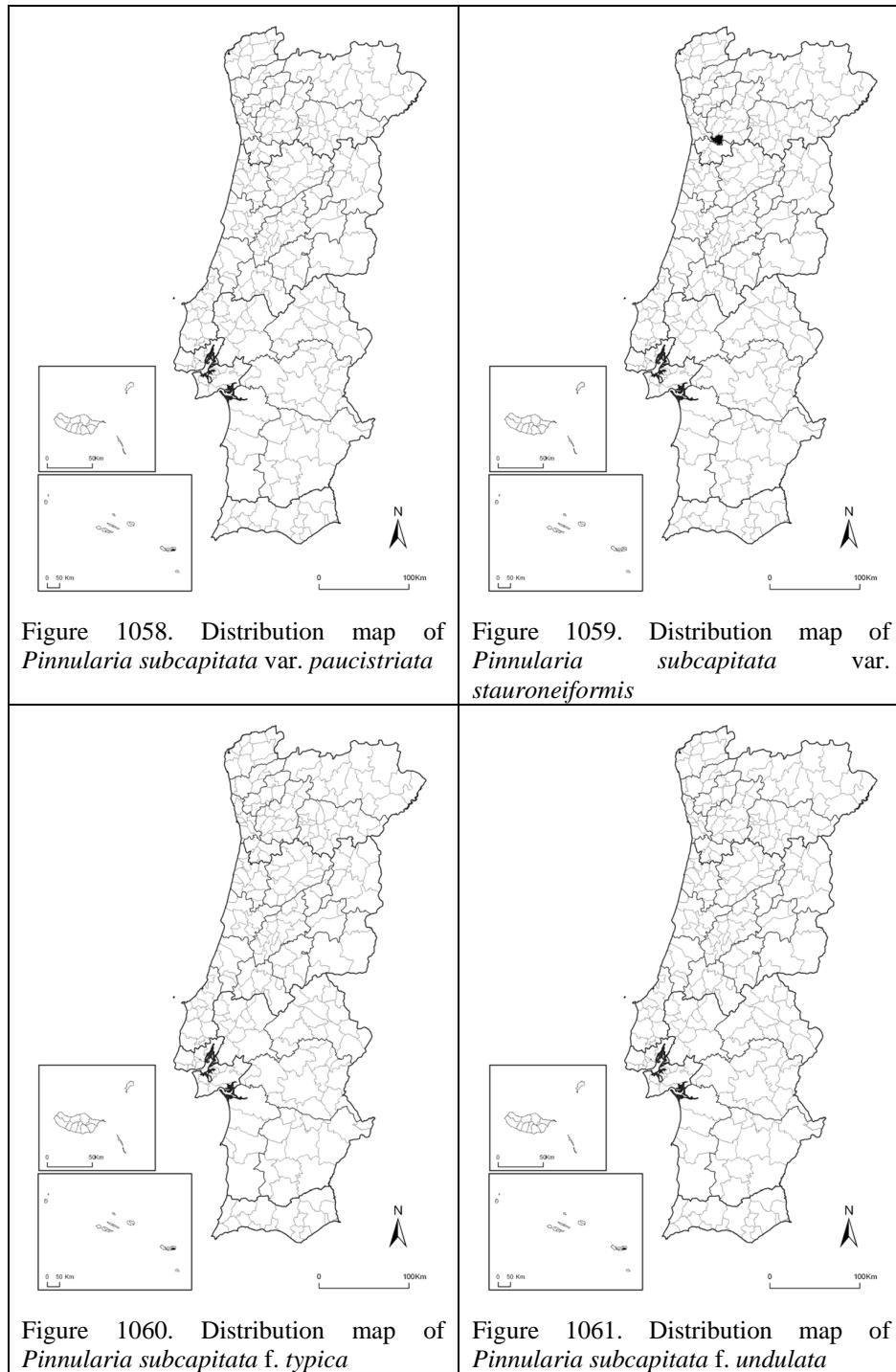


Figure 1050. Distribution map of

Figure 1051. Distribution map of







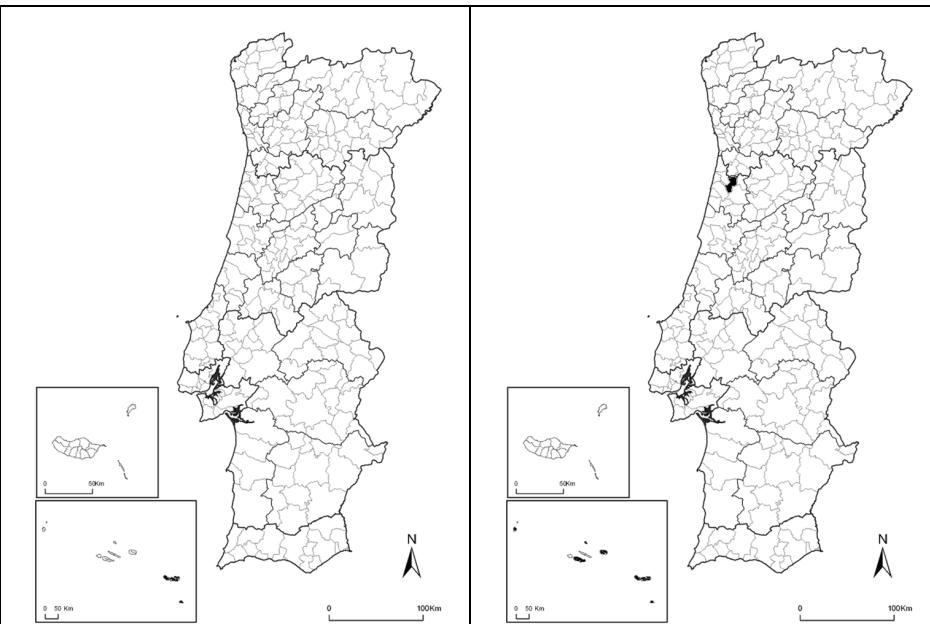


Figure 1062. Distribution map of *Pinnularia subcommutata*

Figure 1063. Distribution map of *Pinnularia subgibba*

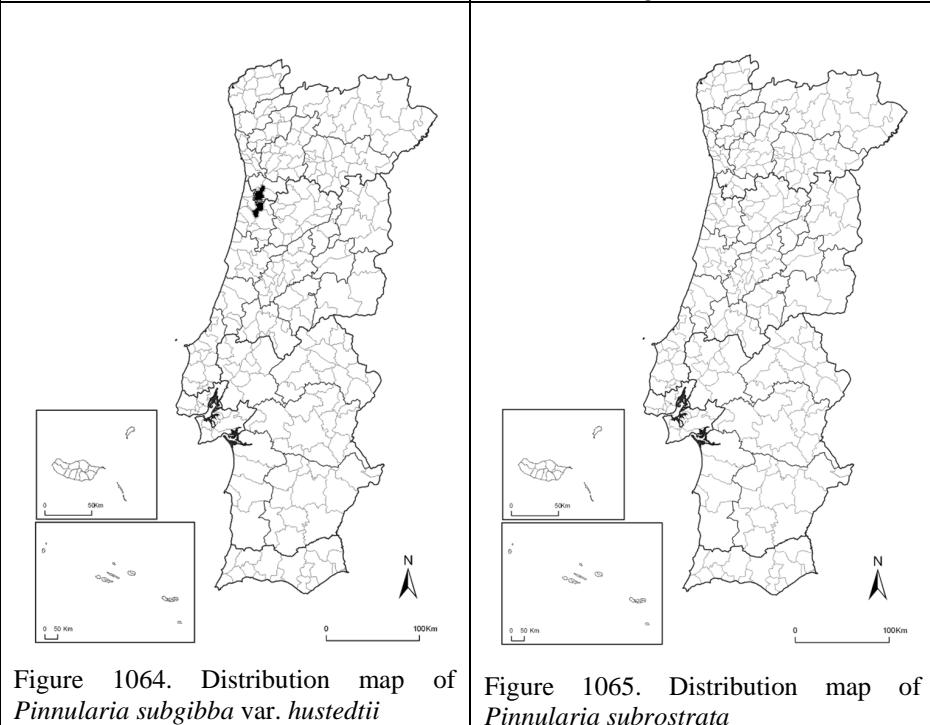


Figure 1064. Distribution map of *Pinnularia subgibba* var. *hustedtii*

Figure 1065. Distribution map of *Pinnularia subrostrata*

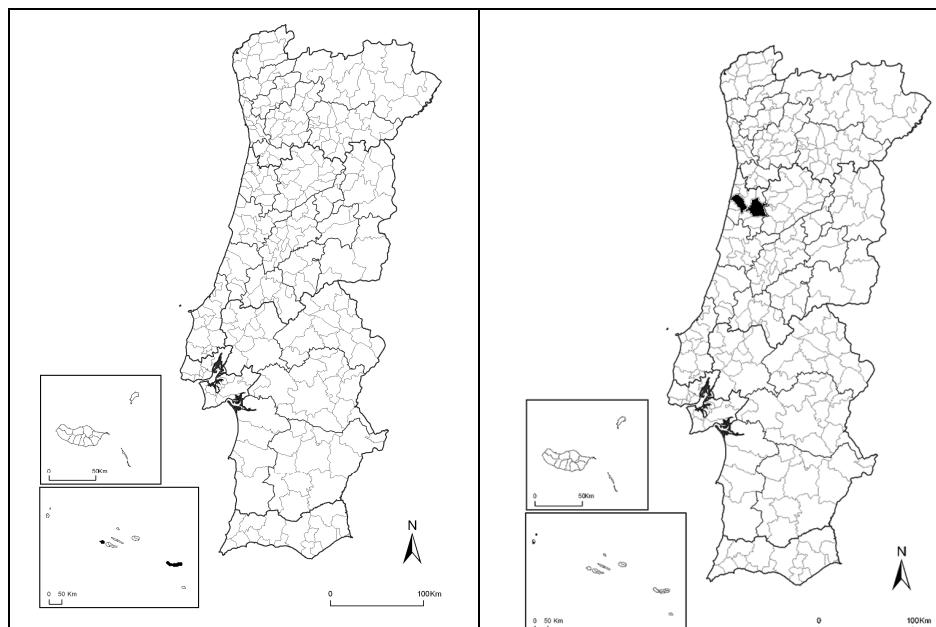


Figure 1066. Distribution map of *Pinnularia subrupestris*

Figure 1067. Distribution map of *Pinnularia subsolaris*

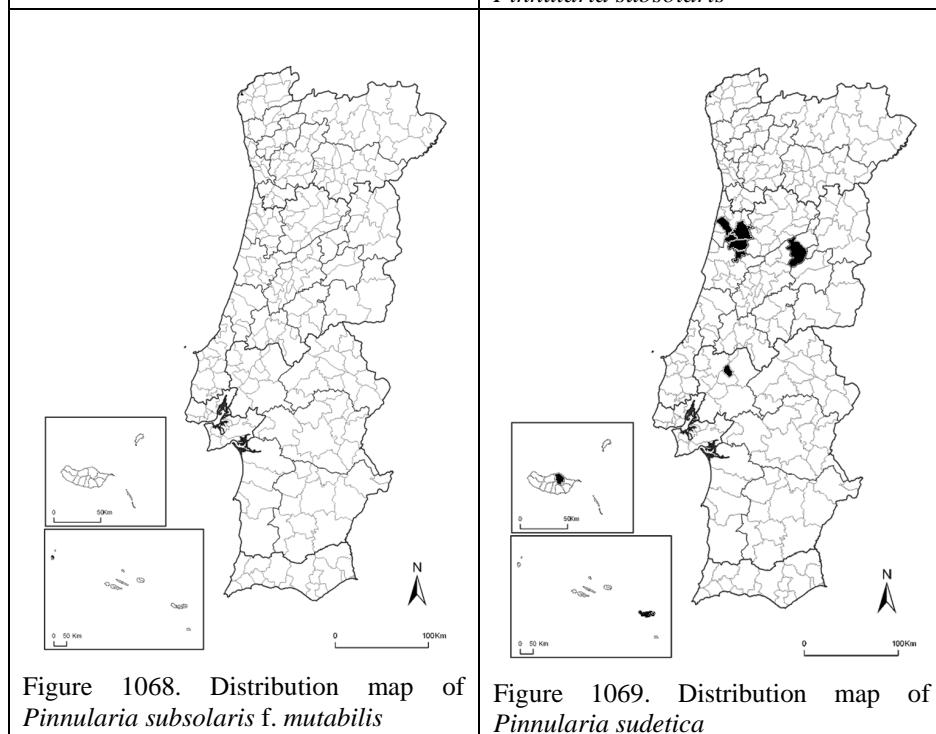


Figure 1068. Distribution map of *Pinnularia subsolaris* f. *mutabilis*

Figure 1069. Distribution map of *Pinnularia sudetica*

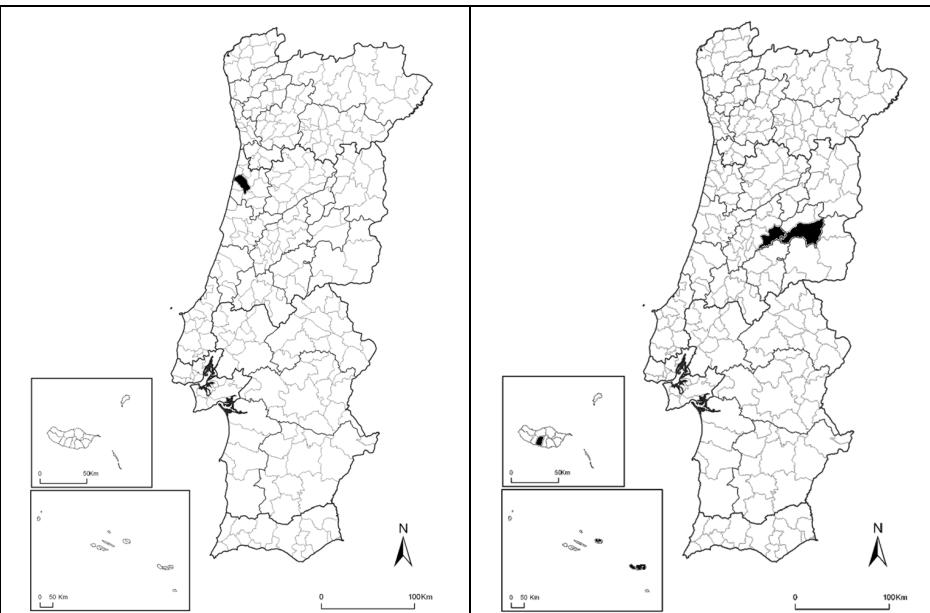


Figure 1070. Distribution map of *Pinnularia superdivergentissima*

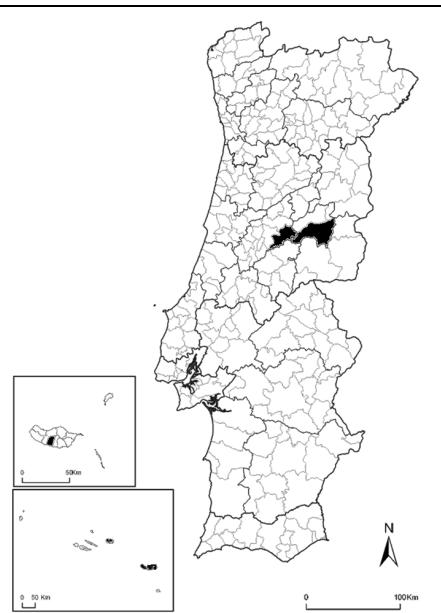


Figure 1071. Distribution map of *Pinnularia tabellaria*

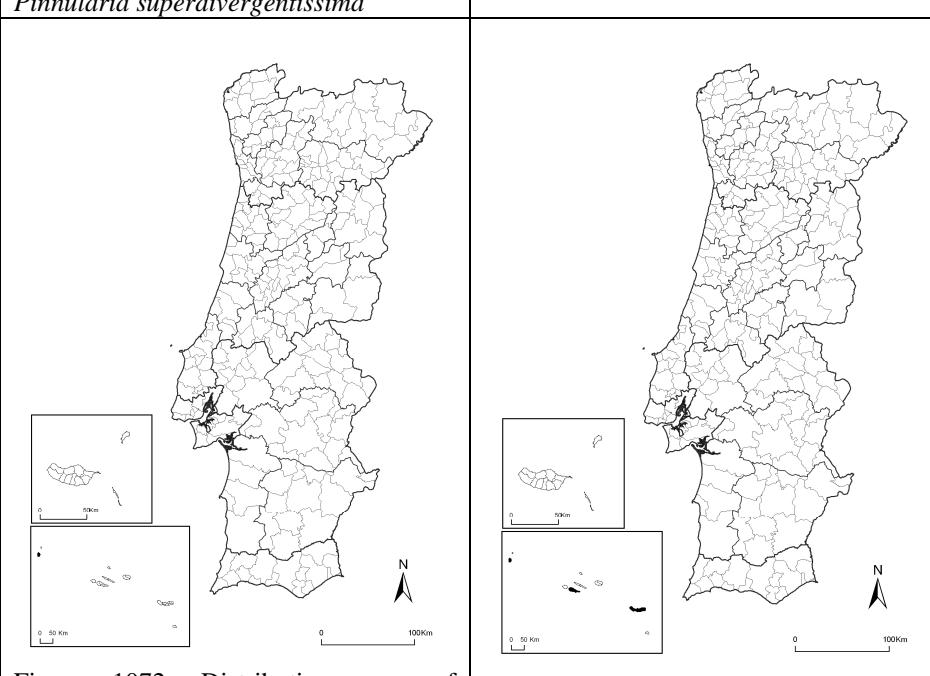
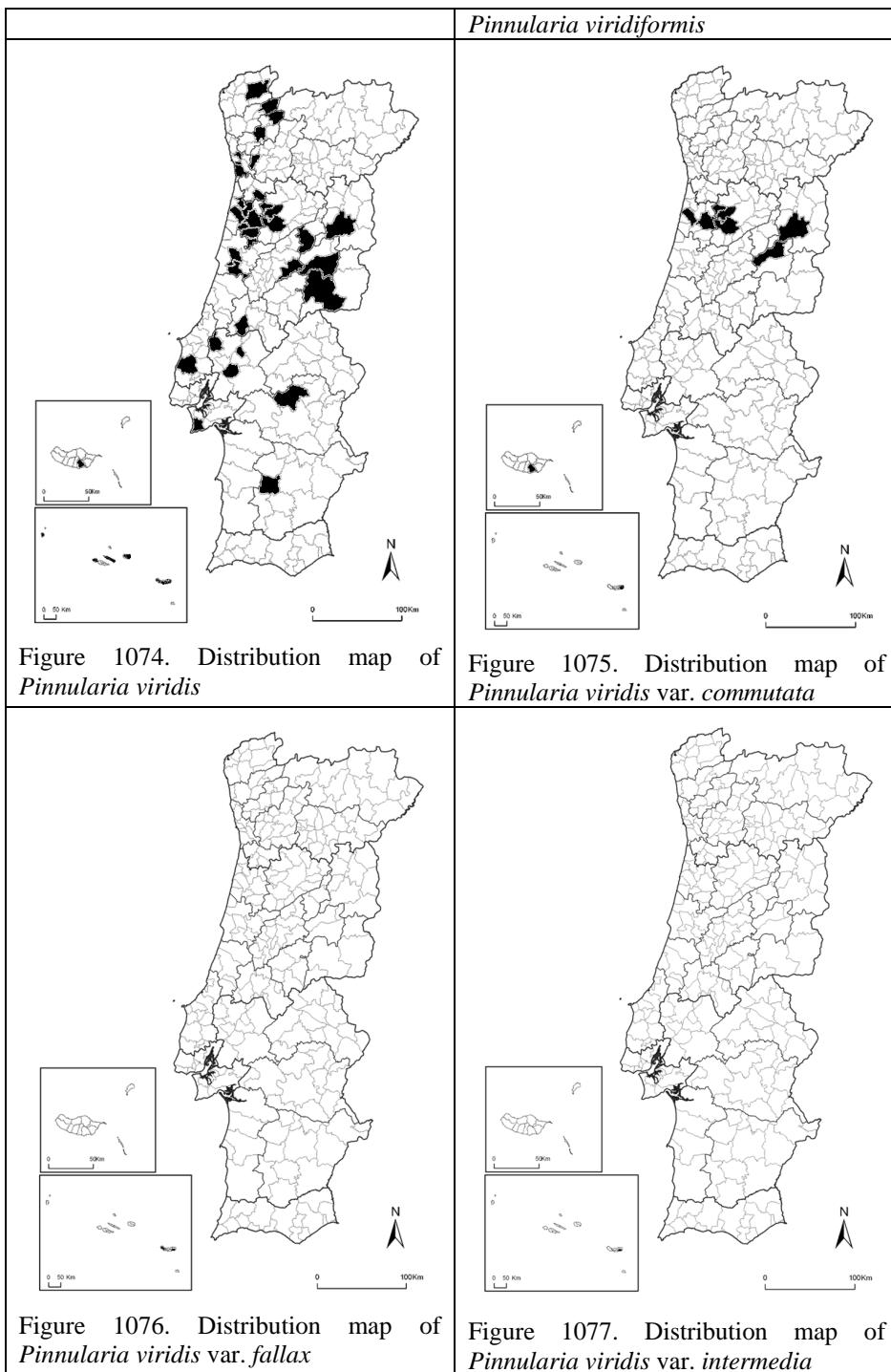


Figure 1072. Distribution map of *Pinnularia tirolensis*

Figure 1073. Distribution map of *Pinnularia tirolensis*



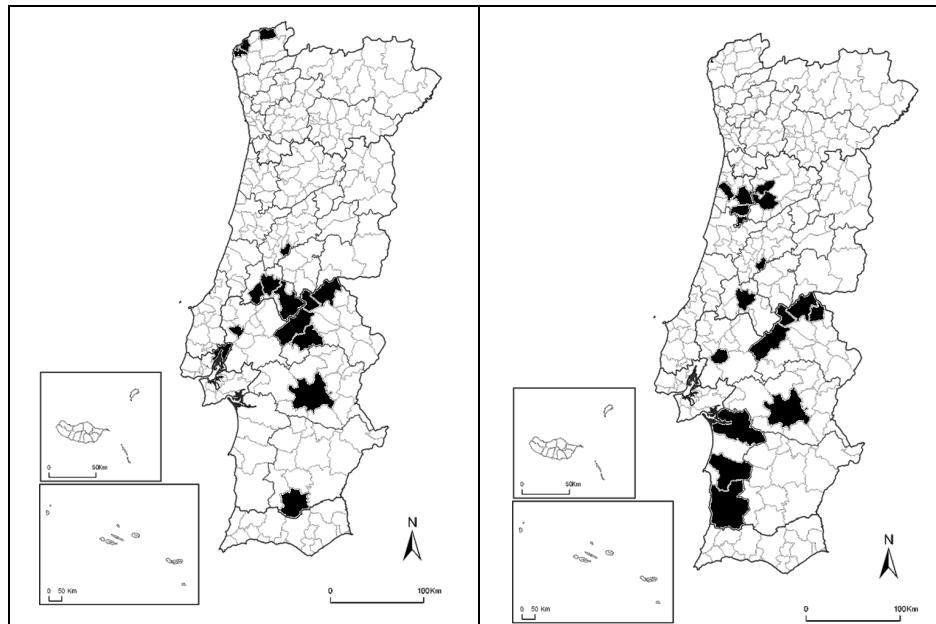


Figure 1078. Distribution map of *Pinnularia* sp.

Figure 1079. Distribution map of *Placoneis anglica*

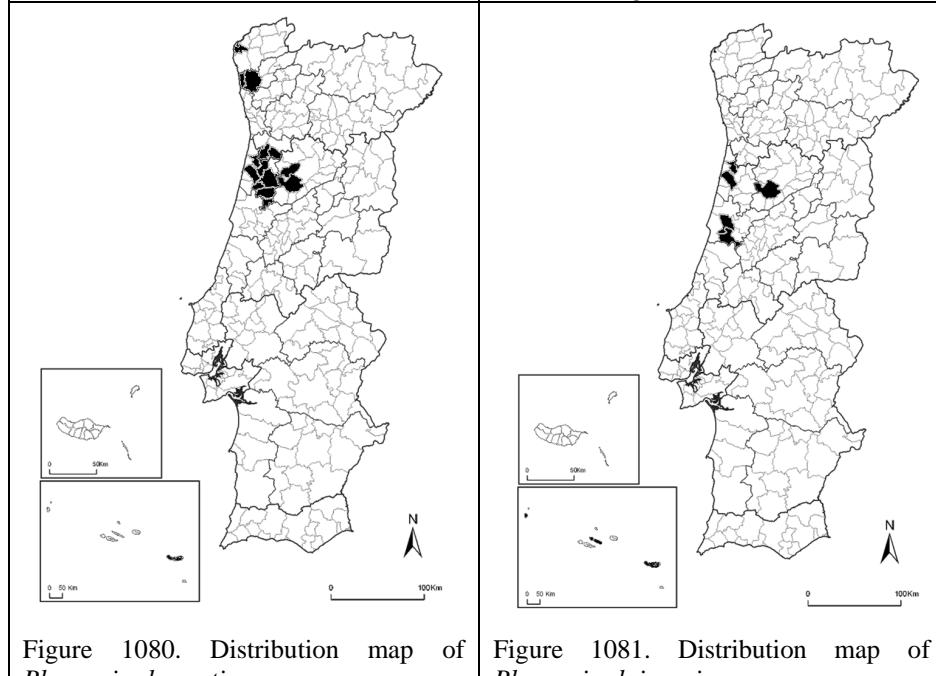
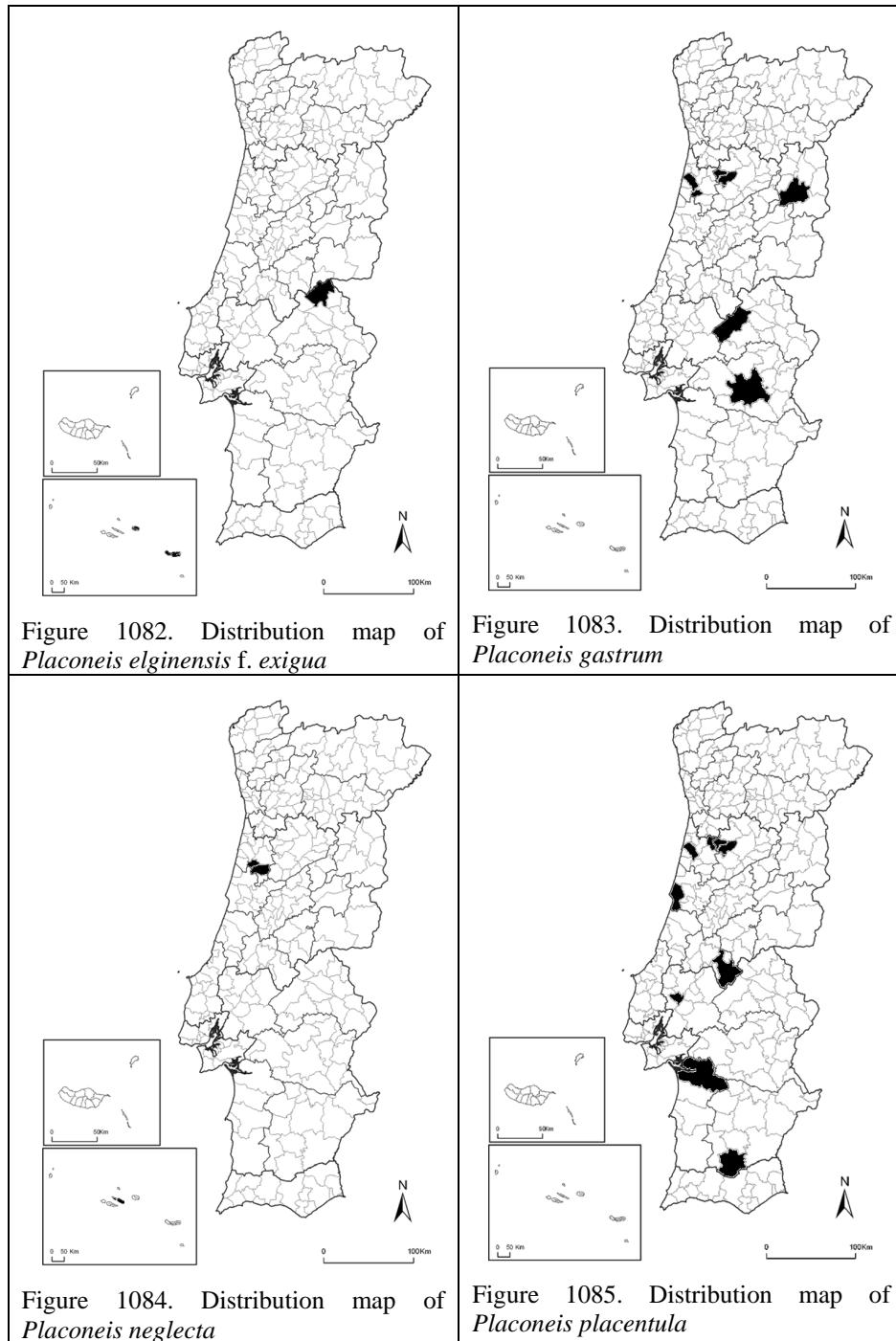


Figure 1080. Distribution map of *Placoneis clementis*

Figure 1081. Distribution map of *Placoneis elginensis*



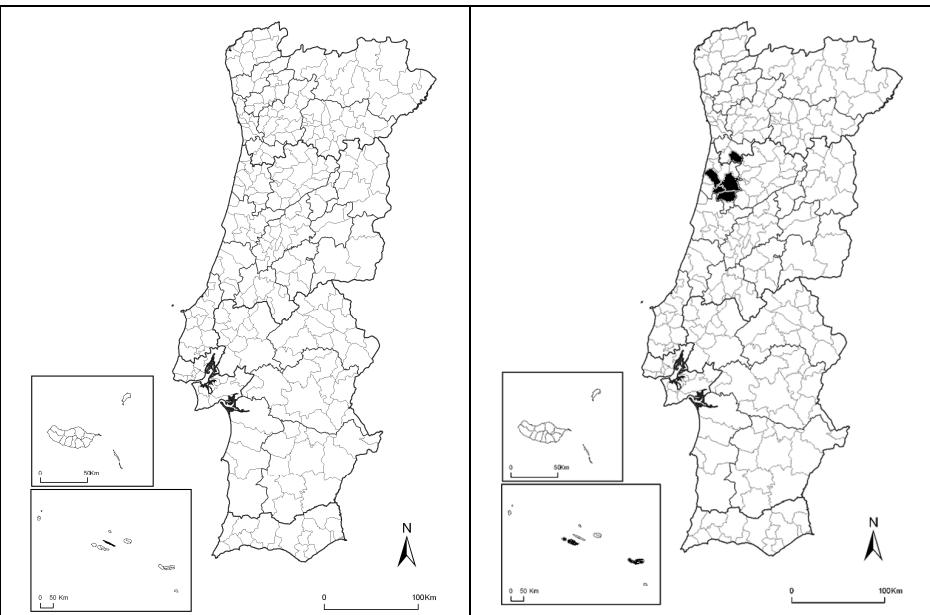


Figure 1086. Distribution map of *Planothidium calcar*

Figure 1087. Distribution map of *Planothidium conspicuum*

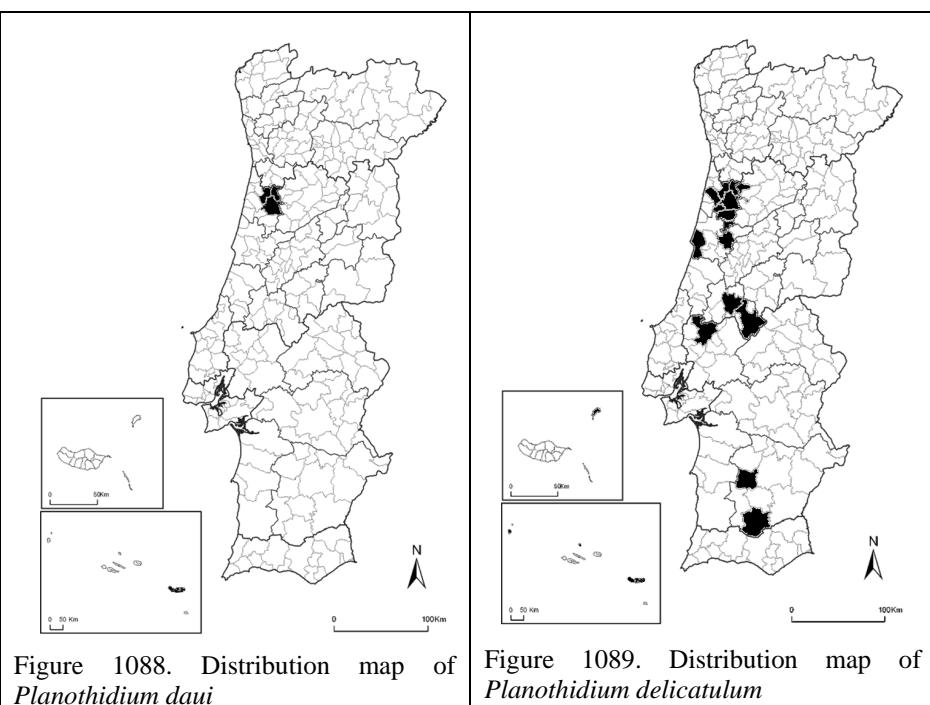
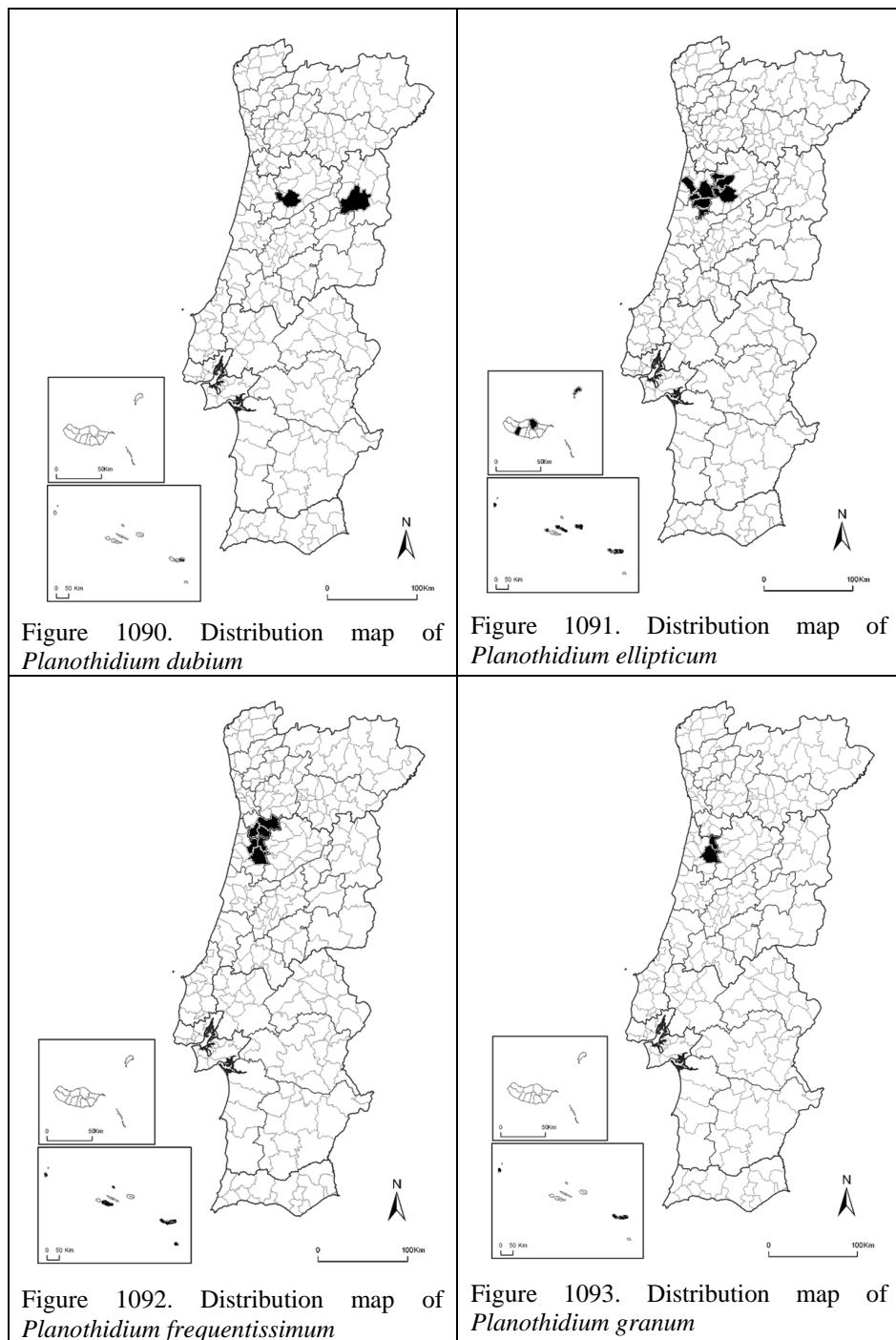


Figure 1088. Distribution map of *Planothidium daui*

Figure 1089. Distribution map of *Planothidium delicatulum*



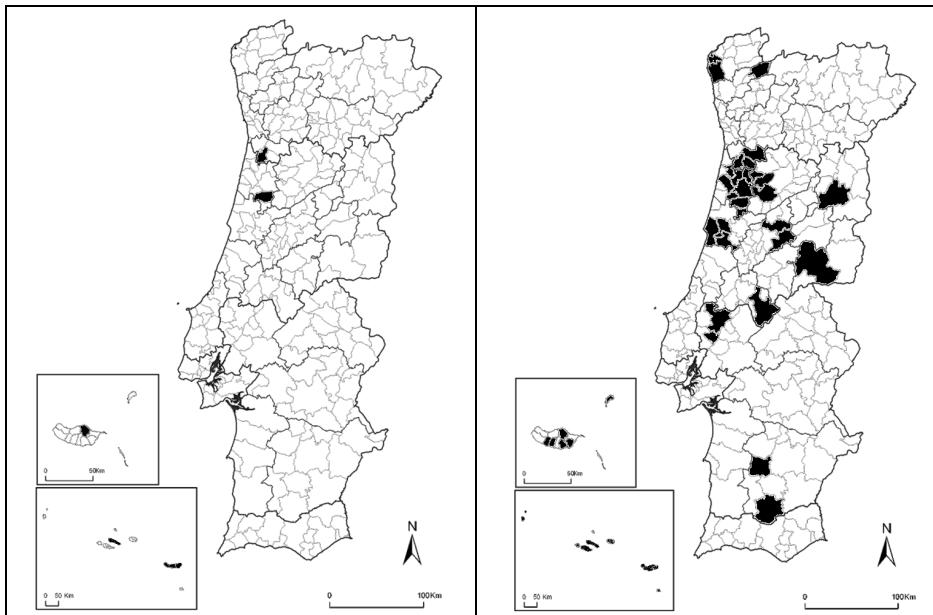


Figure 1094. Distribution map of *Planothidium haukianum*

Figure 1095. Distribution map of *Planothidium lanceolatum*

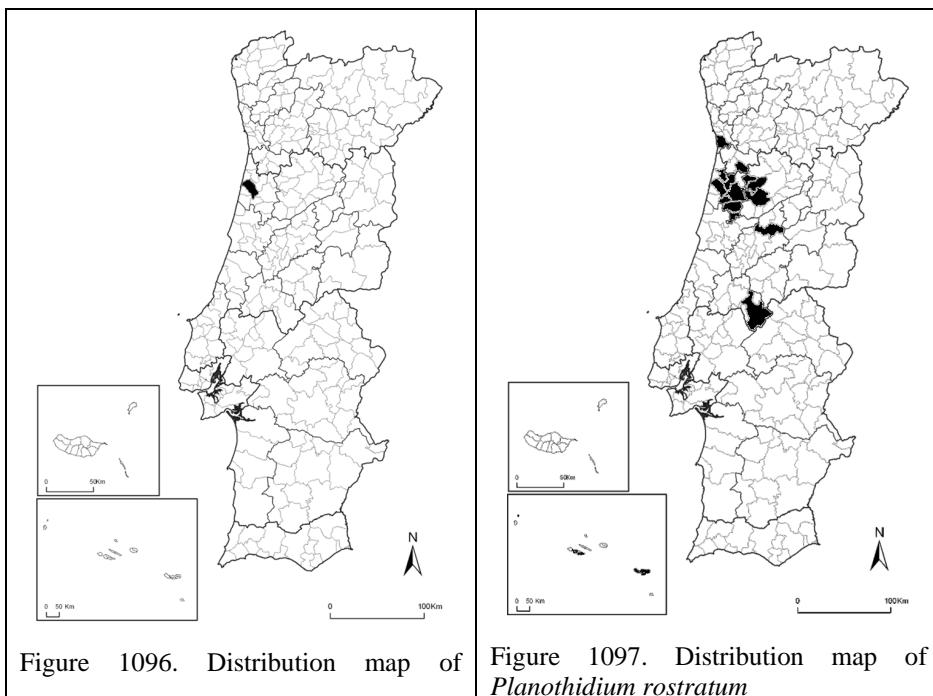


Figure 1096. Distribution map of *Planothidium haukianum*

Figure 1097. Distribution map of *Planothidium rostratum*

Planothidium peragallii

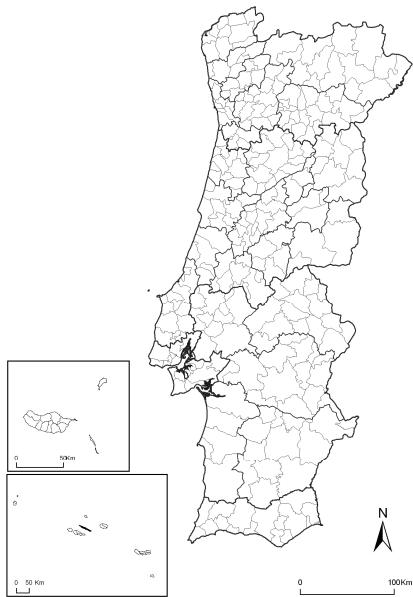


Figure 1098. Distribution map of *Platessa hustedtii*

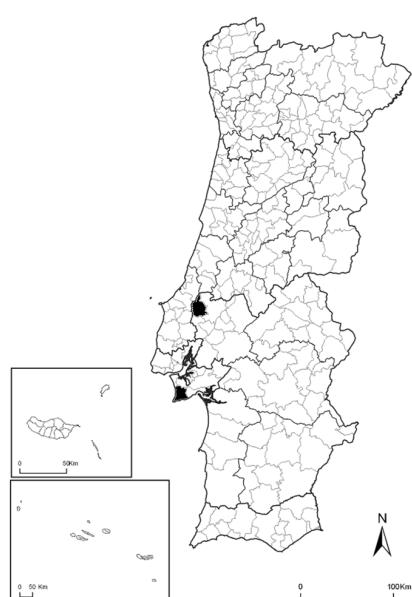


Figure 1099. Distribution map of *Pleurosigma angulatum*

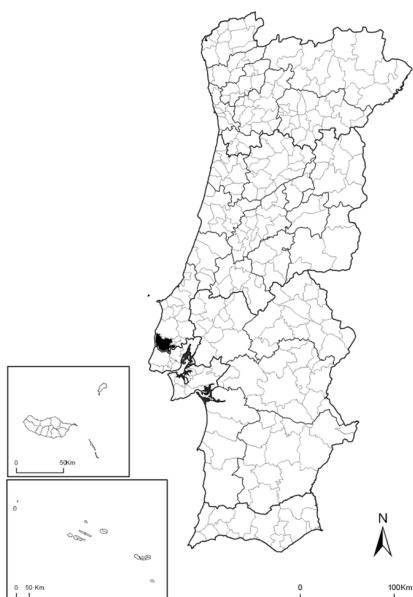


Figure 1100. Distribution map of *Pleurosigma spencerii* var. *smithii*

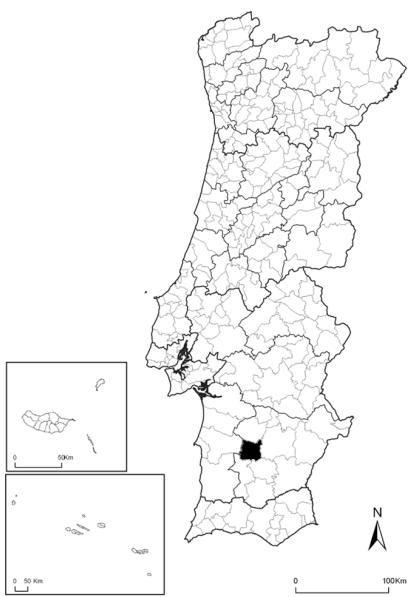
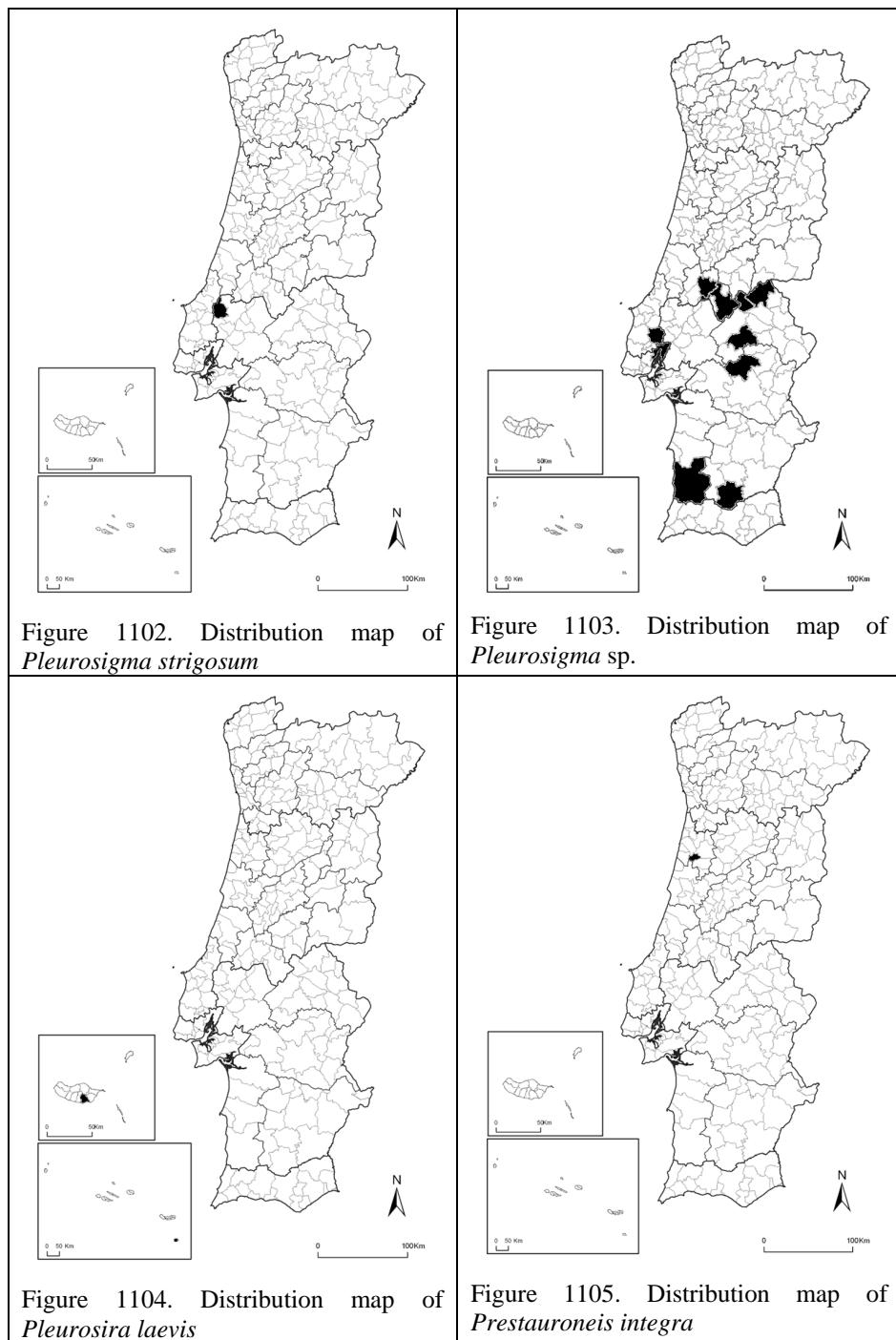


Figure 1101. Distribution map of *Pleurosigma spencerii* var. *splendida*



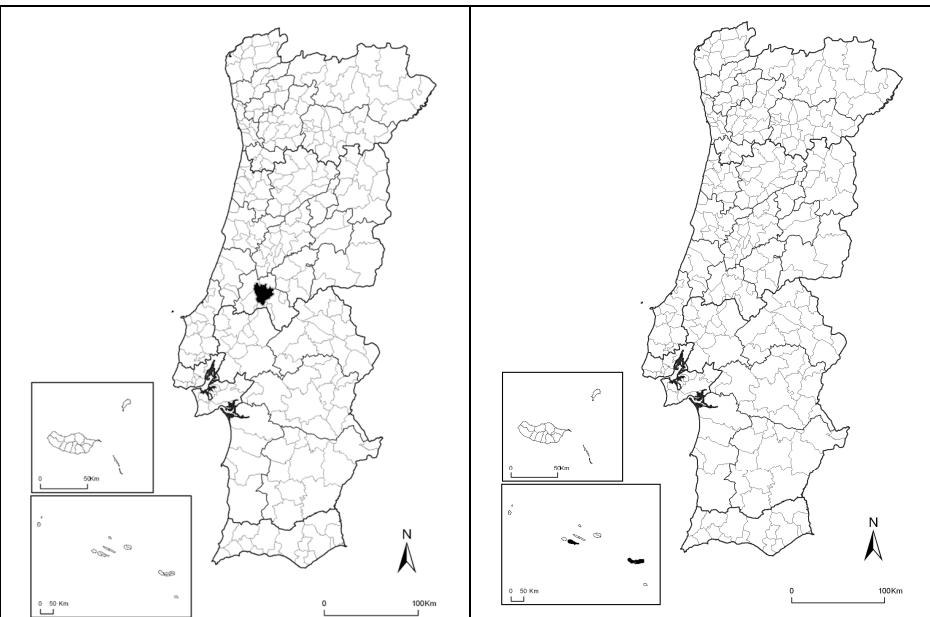


Figure 1106. Distribution map of *Psammodictyon mediterraneum*

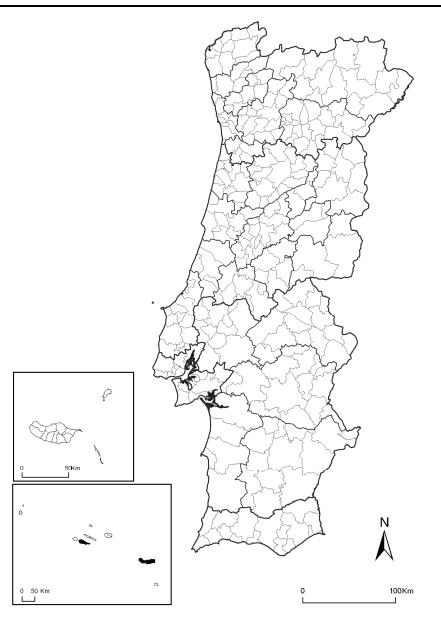


Figure 1107. Distribution map of *Psammothidium altaicum*

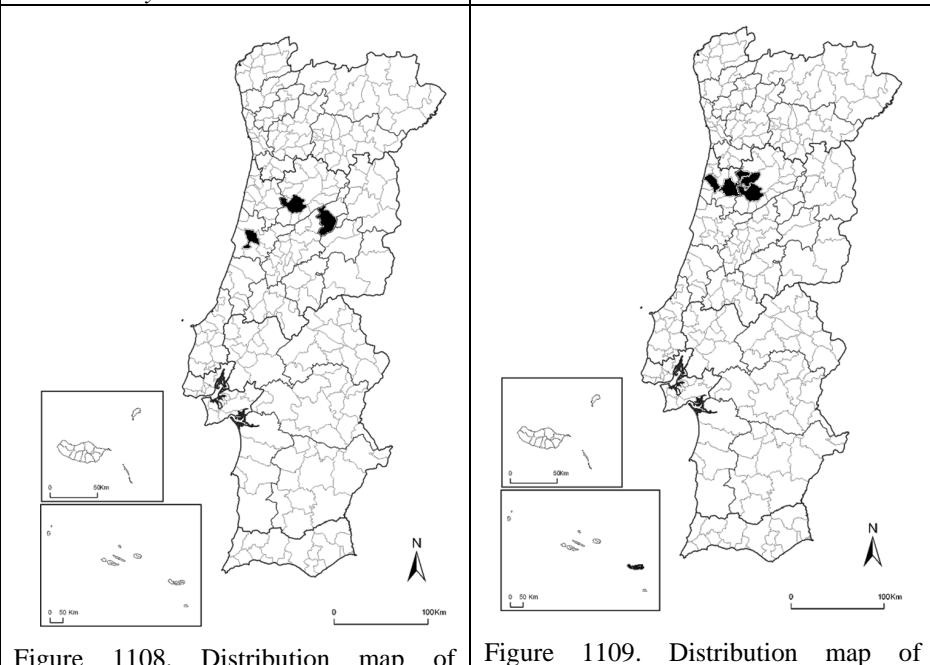


Figure 1108. Distribution map of *Psammothidium chlidanos*

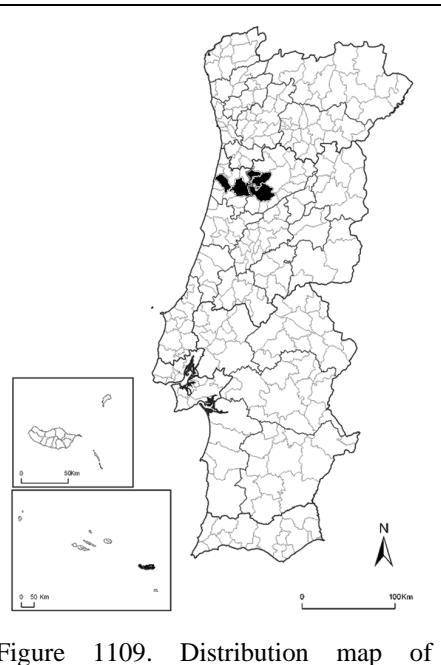


Figure 1109. Distribution map of *Psammothidium kryophilum*

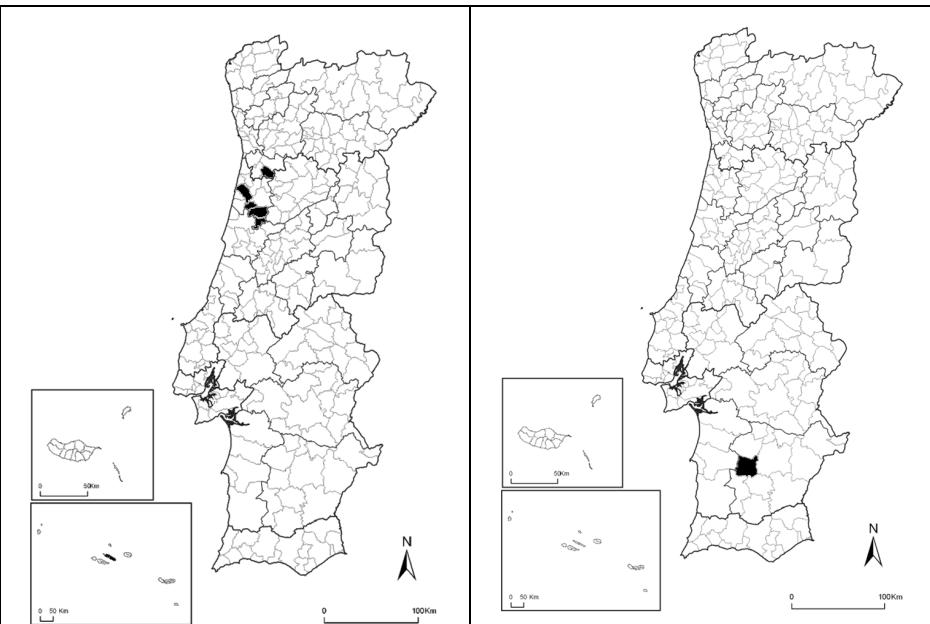


Figure 1110. Distribution map of *Psammothidium marginulatum*

Figure 1111. Distribution map of *Psammothidium semiapertum*

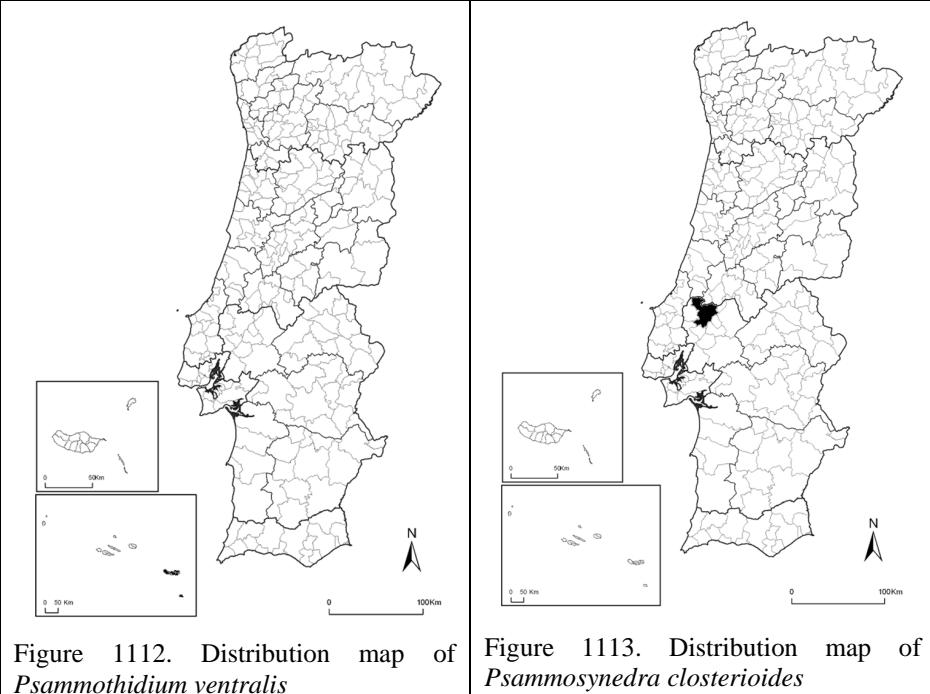


Figure 1112. Distribution map of *Psammothidium ventralis*

Figure 1113. Distribution map of *Psammosynedra closterioides*

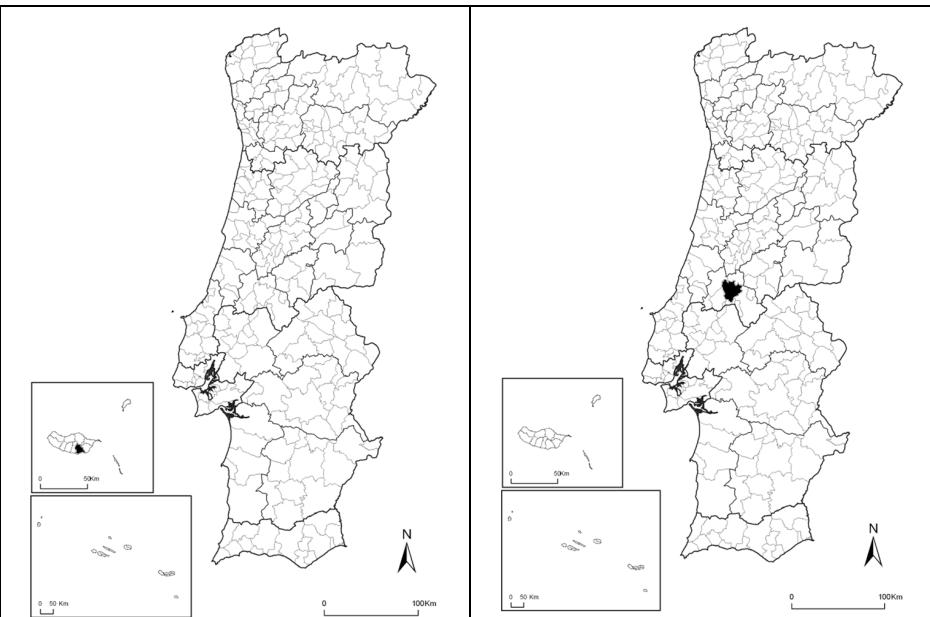


Figure 1114. Distribution map of *Pseudoeunotia lunaris*

Figure 1115. Distribution map of *Pseudonitzschia seriata*

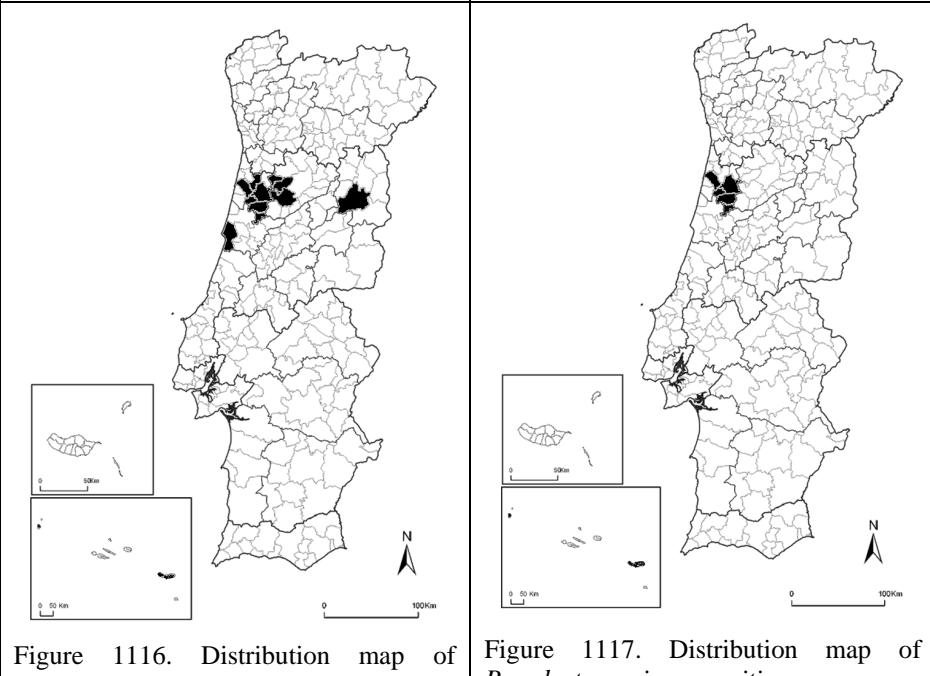
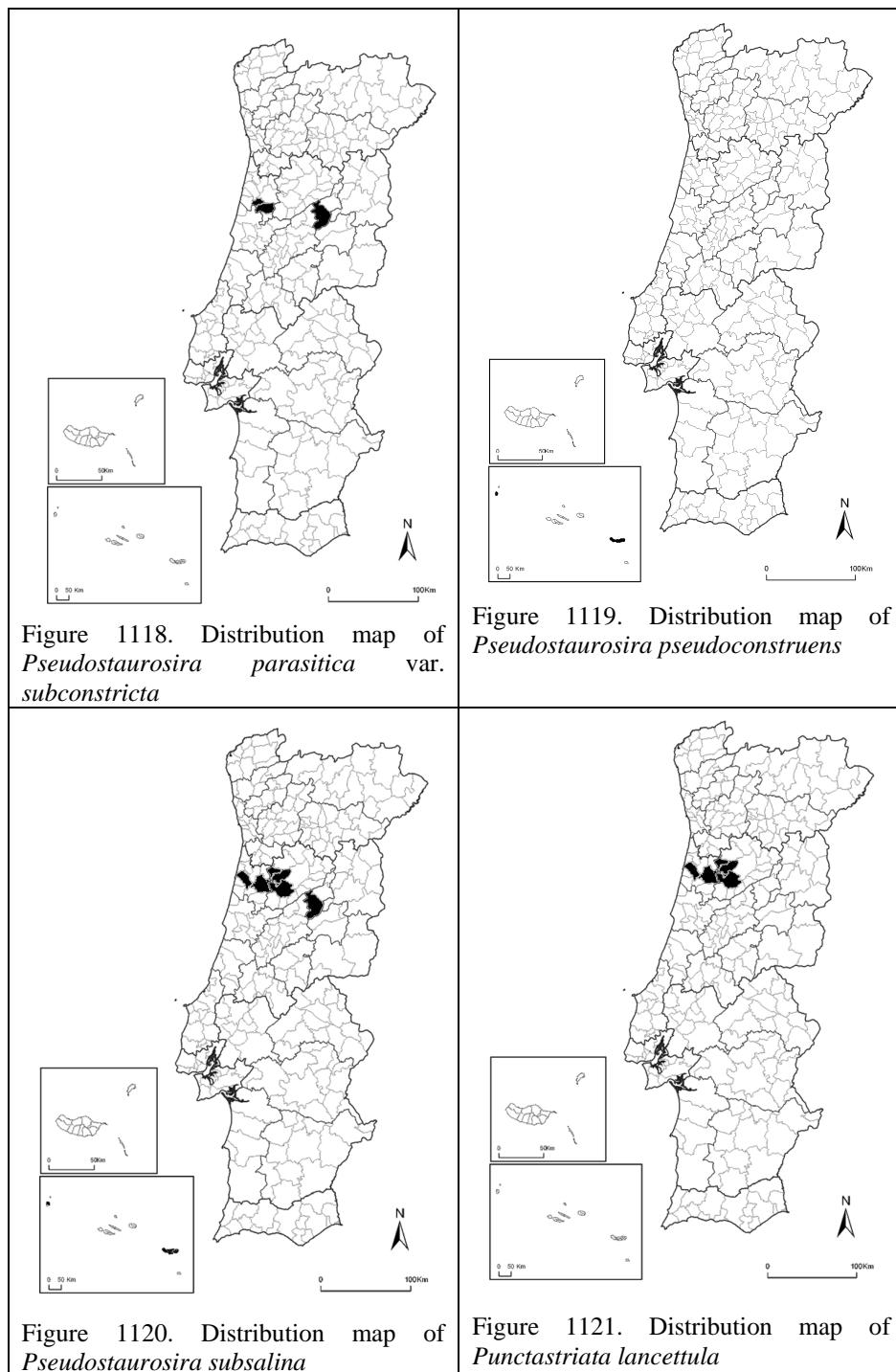
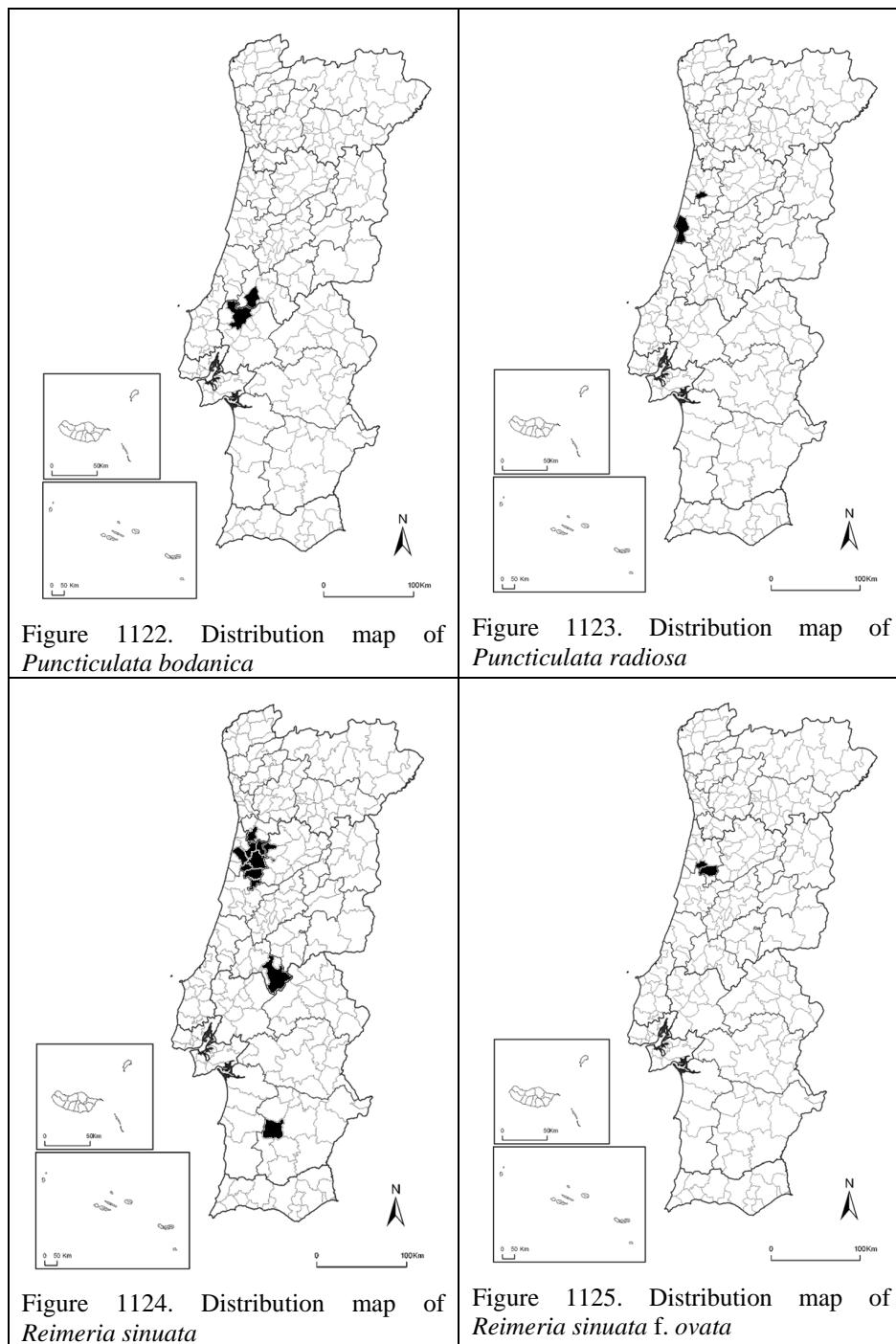
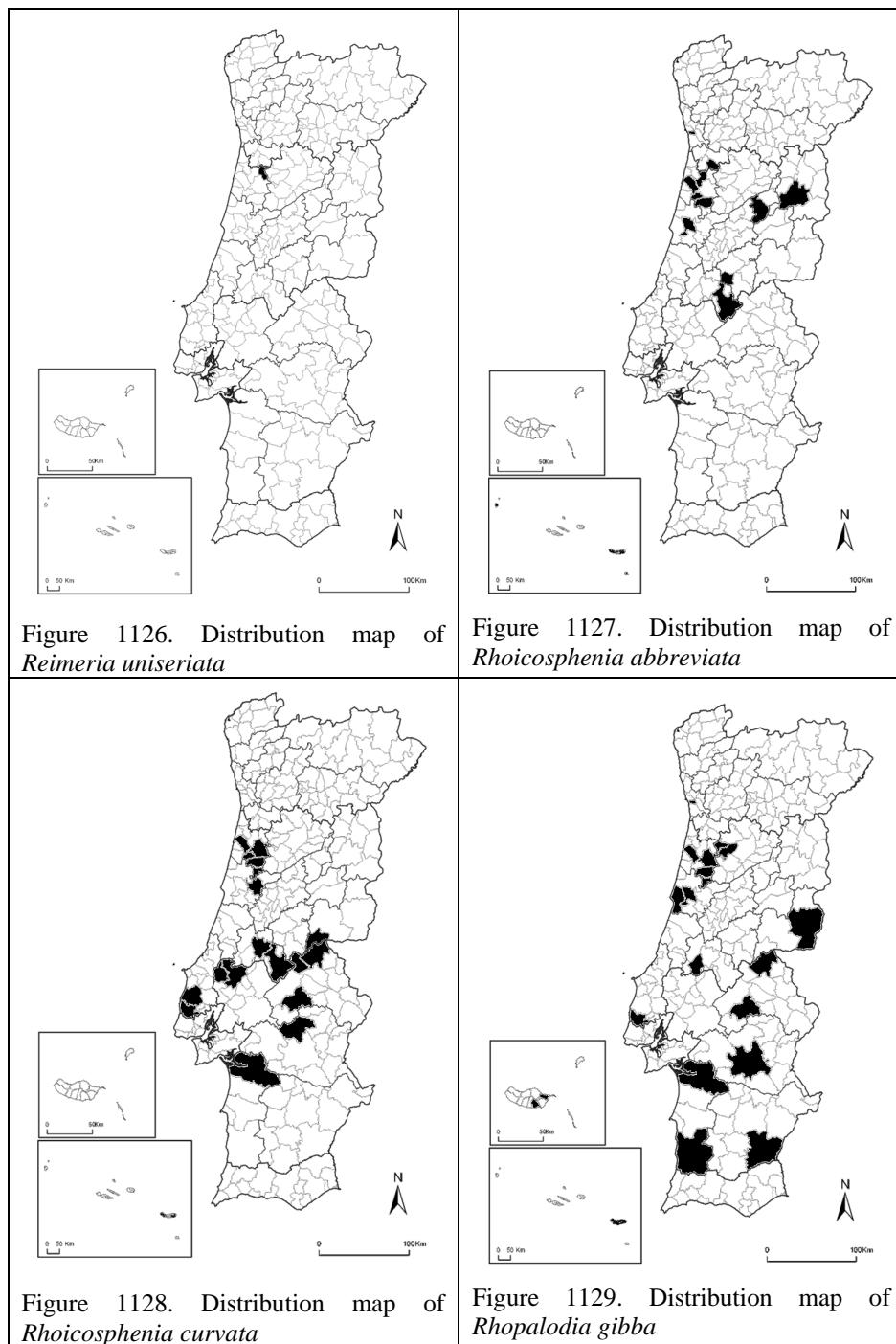


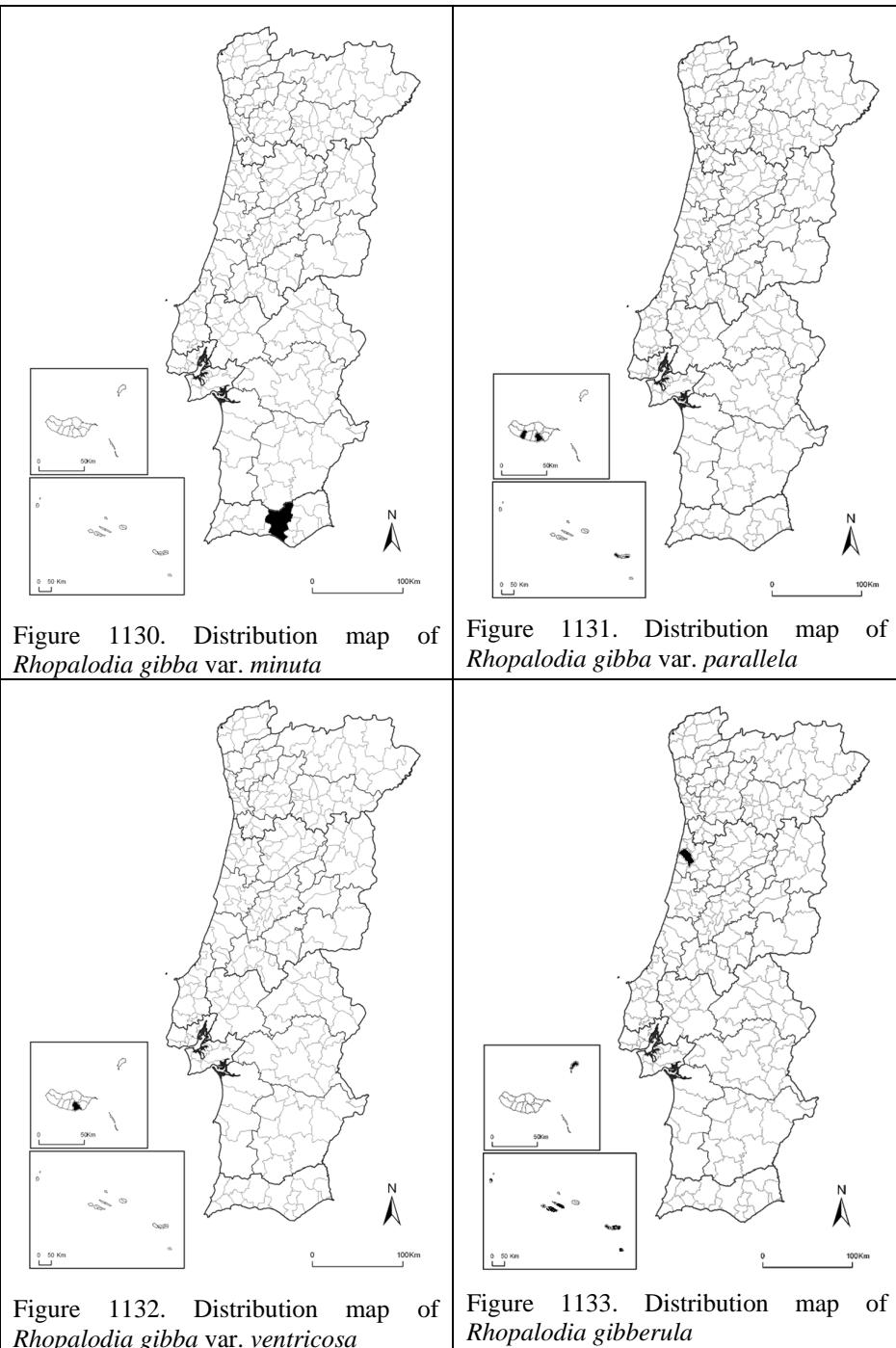
Figure 1116. Distribution map of *Pseudostaurosira brevistriata*

Figure 1117. Distribution map of *Pseudostaurosira parasitica*









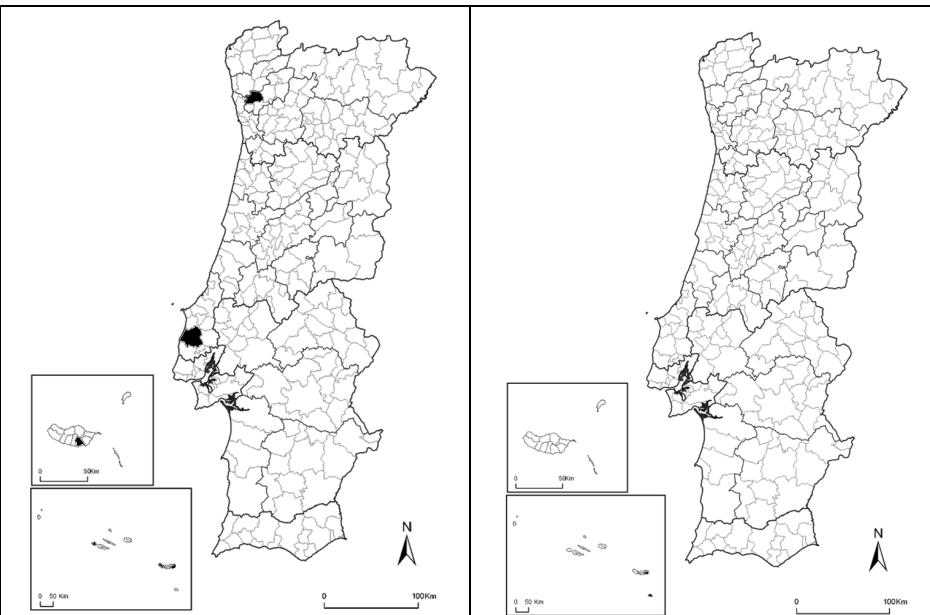


Figure 1134. Distribution map of *Rhopalodia gibberula* var. *producta*

Figure 1135. Distribution map of *Rhopalodia gibberula* var. *vanheurckii*

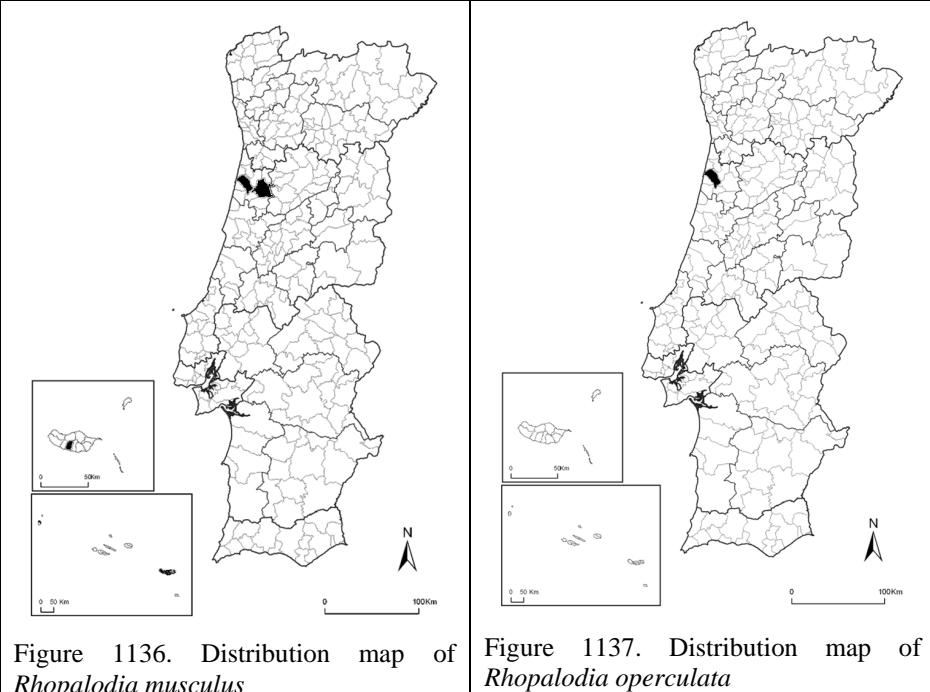


Figure 1136. Distribution map of *Rhopalodia musculus*

Figure 1137. Distribution map of *Rhopalodia operculata*

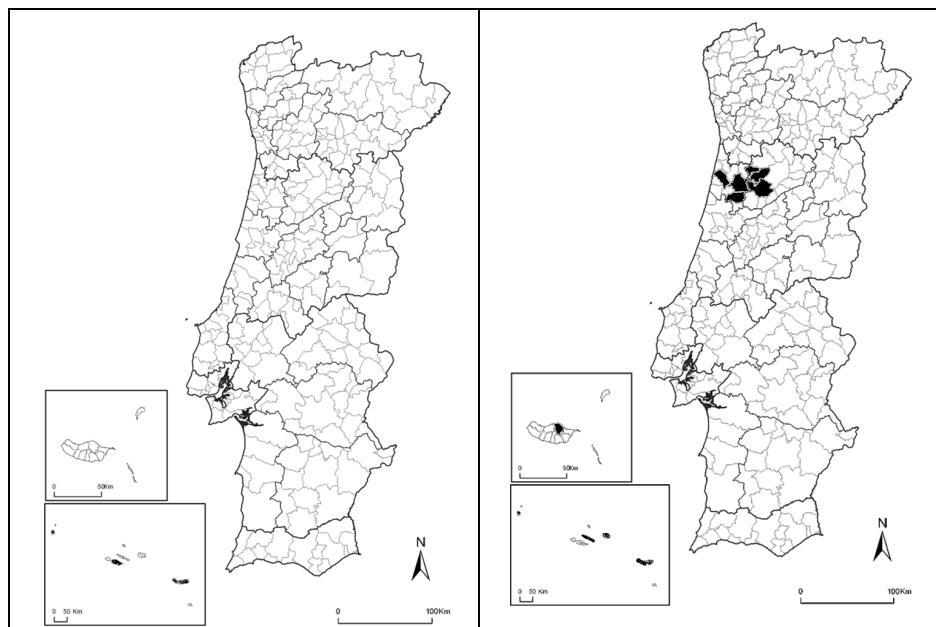


Figure 1138. Distribution map of *Rhopalodia rupestris*

Figure 1139. Distribution map of *Rossithidium pusillum*

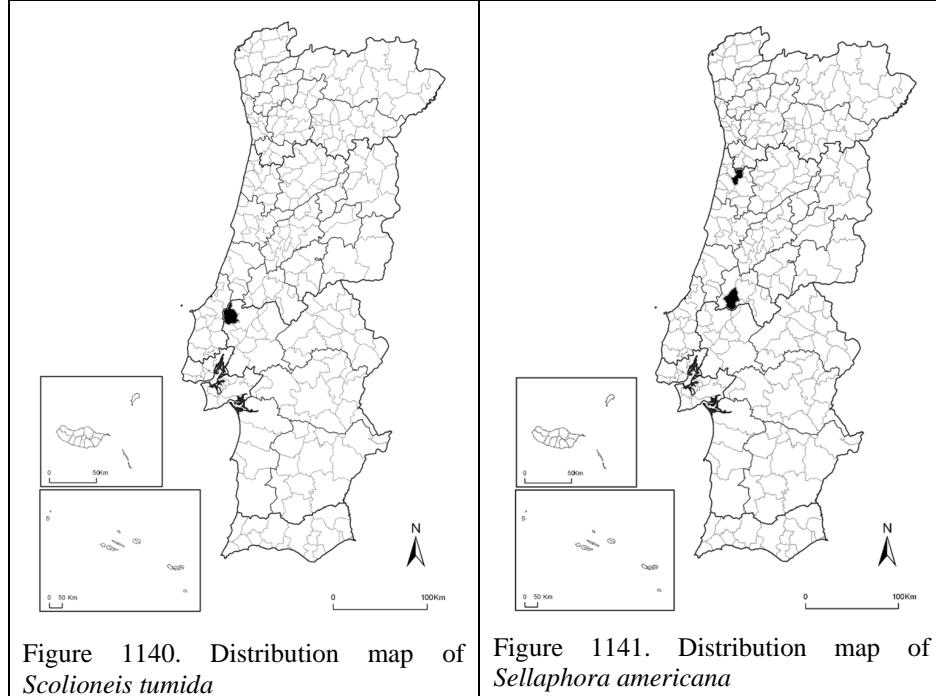


Figure 1140. Distribution map of *Scolioneis tumida*

Figure 1141. Distribution map of *Sellaphora americana*

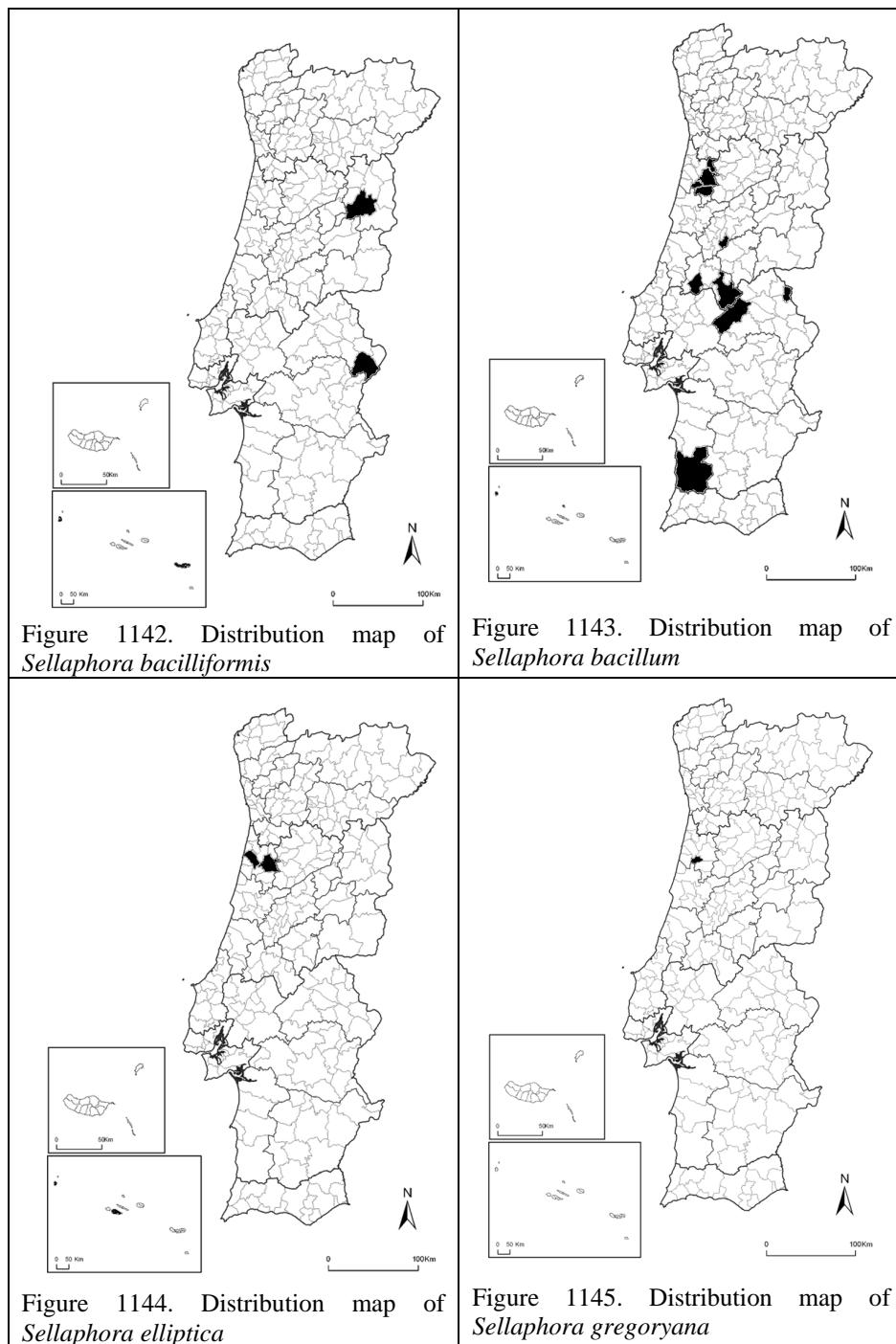
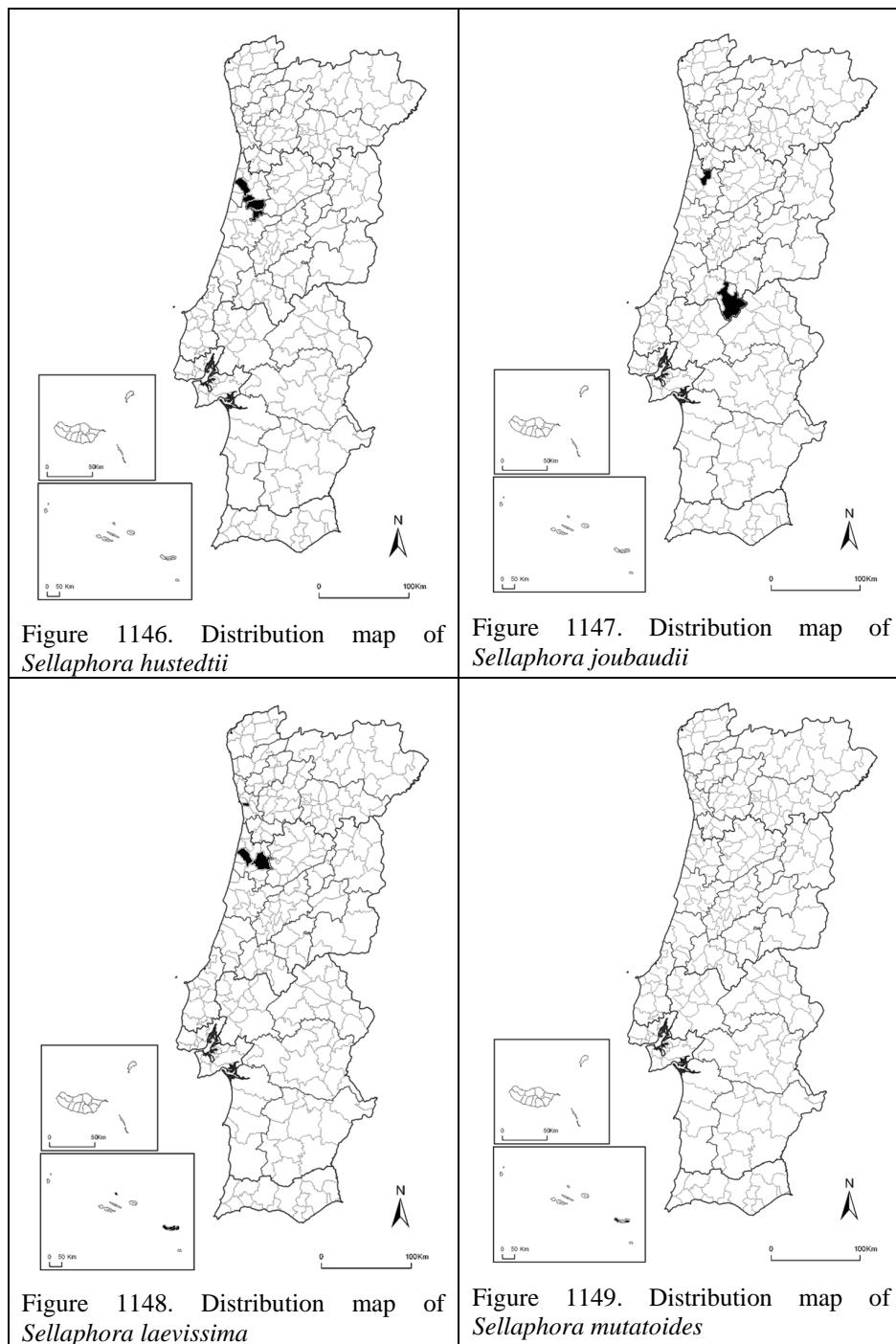


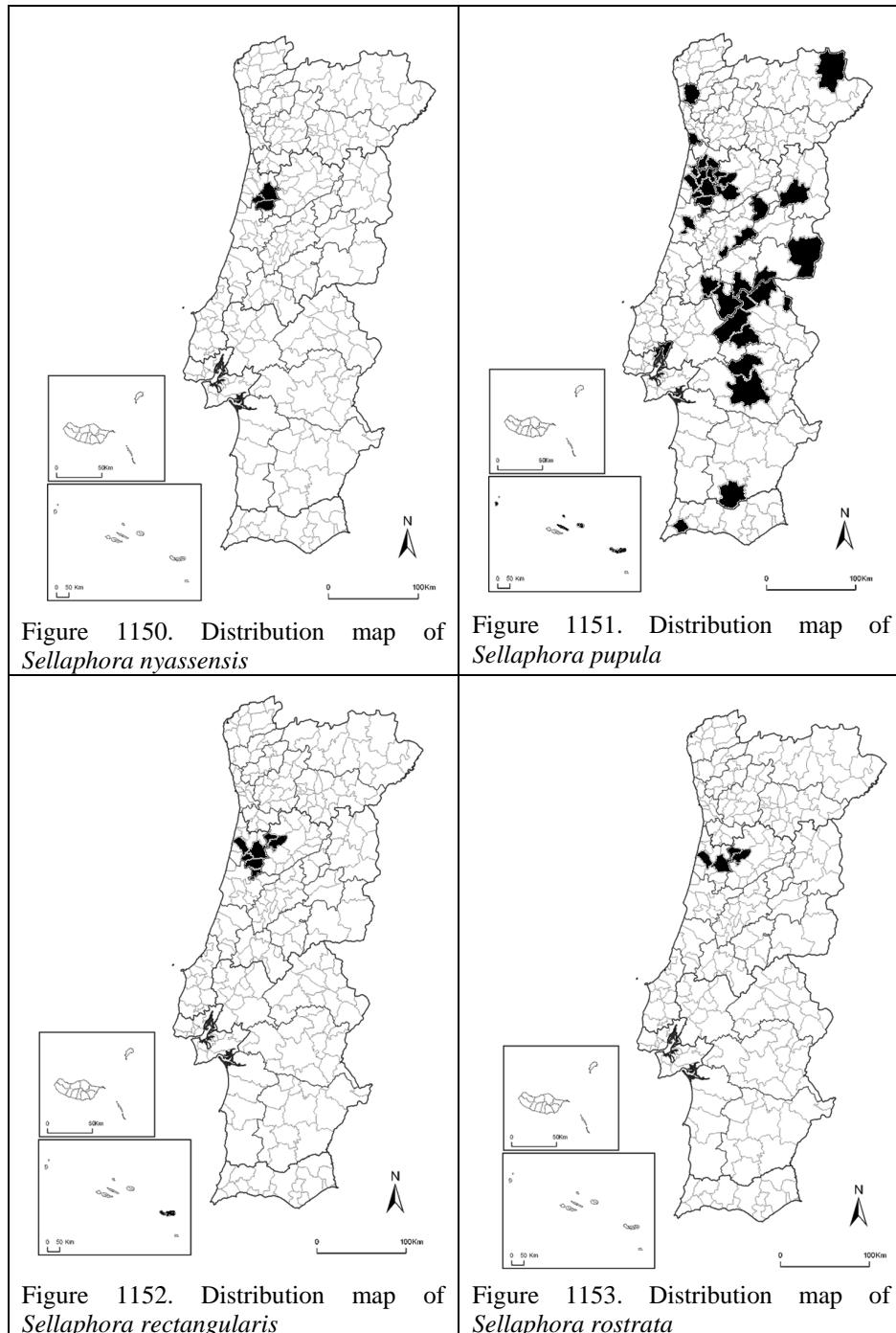
Figure 1142. Distribution map of *Sellaphora bacilliformis*

Figure 1143. Distribution map of *Sellaphora bacillum*

Figure 1144. Distribution map of *Sellaphora elliptica*

Figure 1145. Distribution map of *Sellaphora gregoryana*





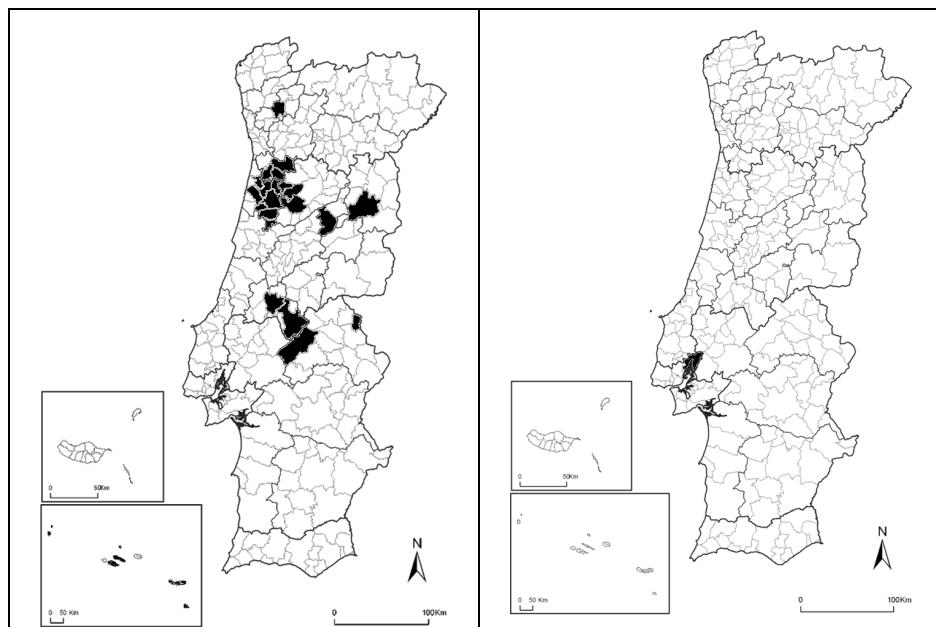


Figure 1154. Distribution map of *Sellaphora seminulum*

Figure 1155. Distribution map of *Skeletonema costatum*

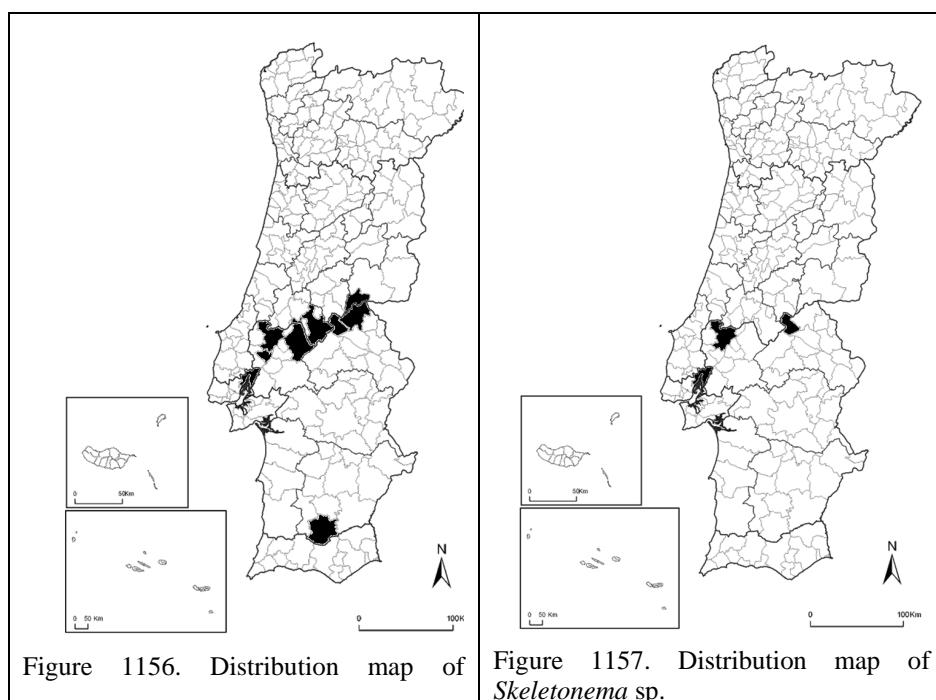


Figure 1156. Distribution map of *Skeletonema* sp.

Figure 1157. Distribution map of *Skeletonema* sp.

Skeletonema subsalsum

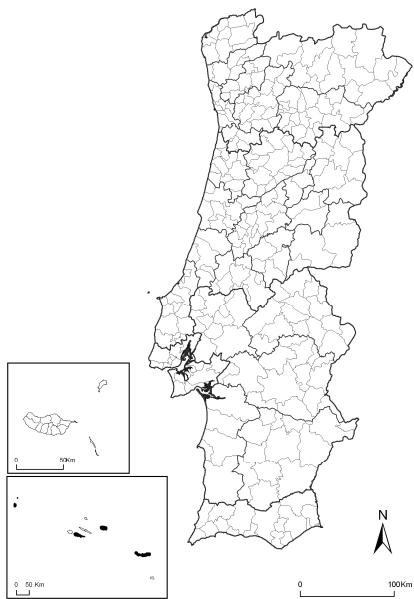


Figure 1158. Distribution map of *Stauroforma exiguiformis*

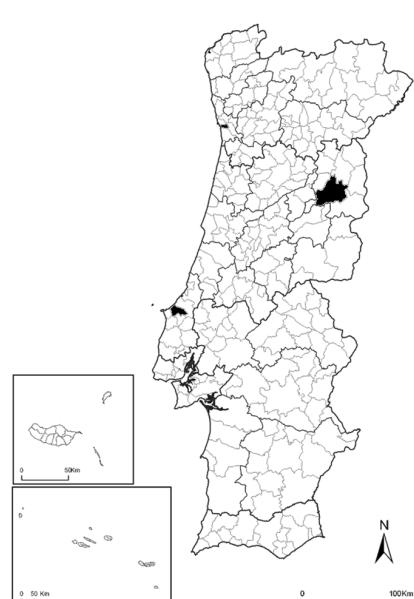


Figure 1159. Distribution map of *Stauroneis acuta*

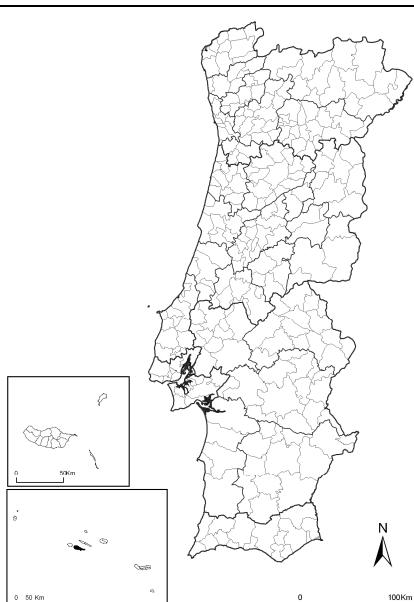


Figure 1160. Distribution map of

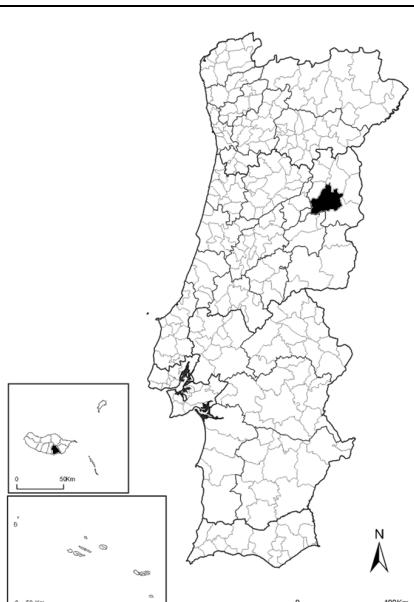


Figure 1161. Distribution map of

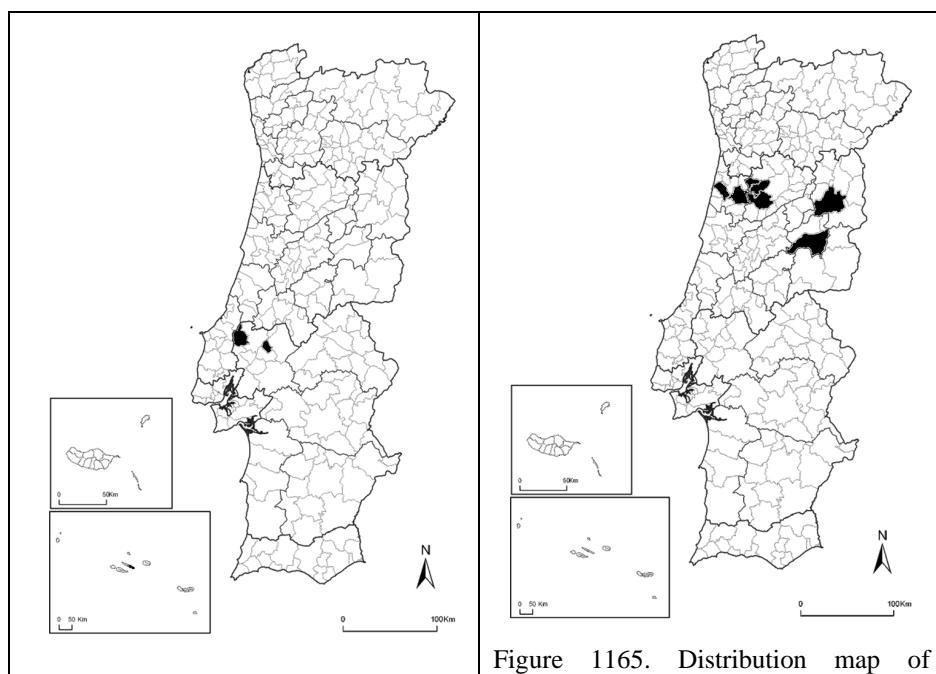
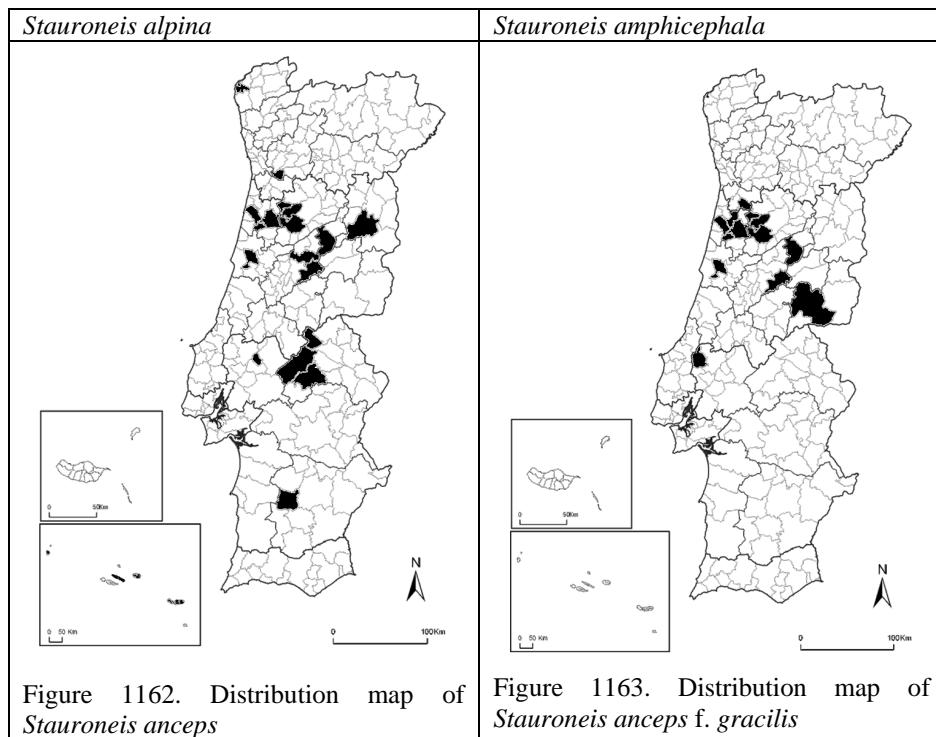


Figure 1164. Distribution map of *Stauroneis anceps f. linearis*
Stauroneis anceps var. *hyalina*

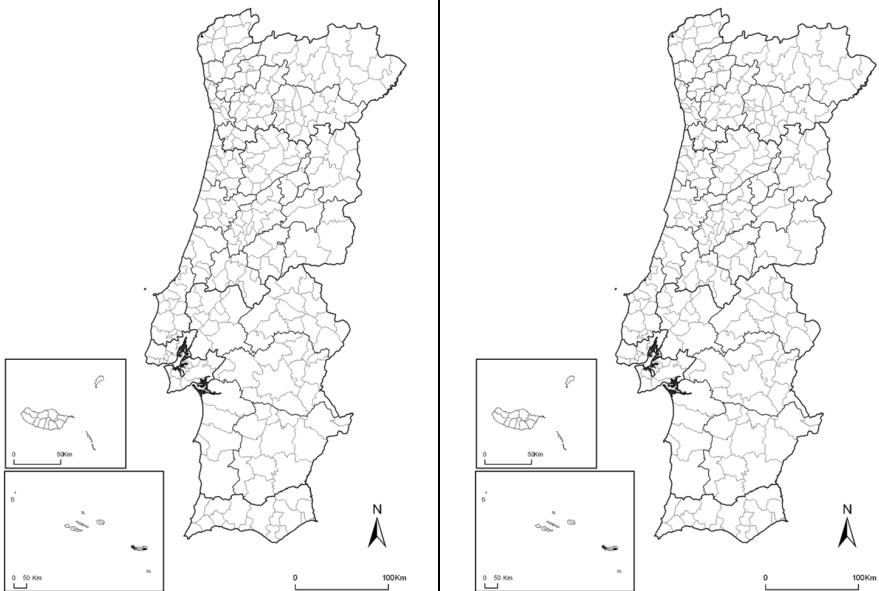


Figure 1166. Distribution map of *Stauroneis dubia*

Figure 1167. Distribution map of *Stauroneis gracilior*

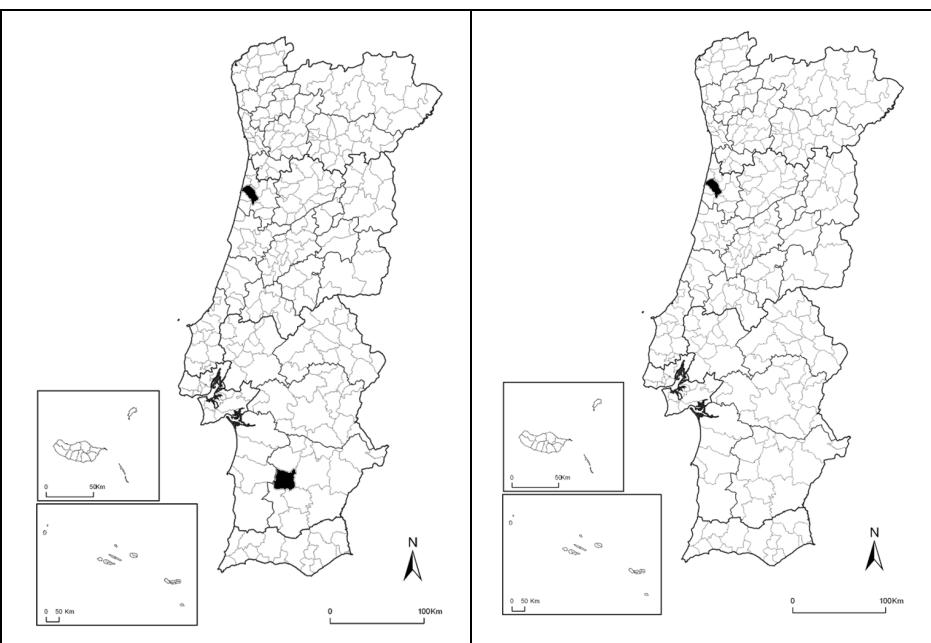


Figure 1168. Distribution map of *Stauroneis kriegeri*

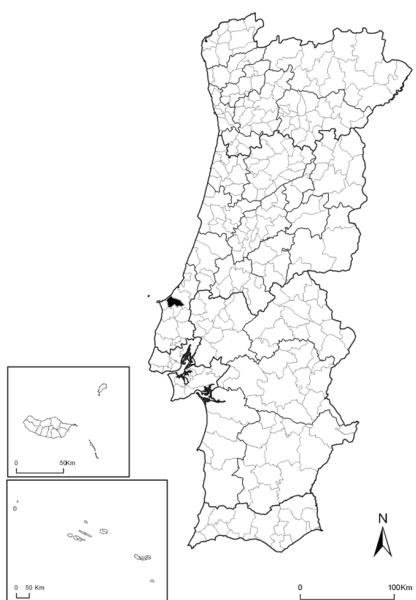


Figure 1169. Distribution map of *Stauroneis legumen*

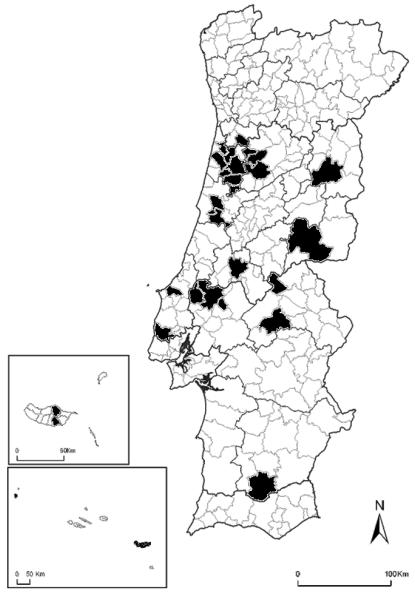


Figure 1170. Distribution map of *Stauroneis parvula*

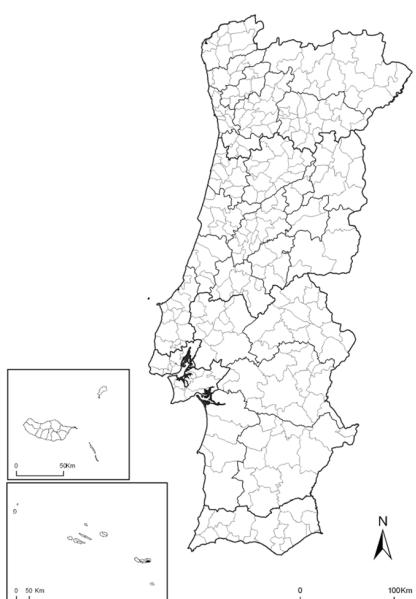


Figure 1171. Distribution map of *Stauroneis phoenicenteron*

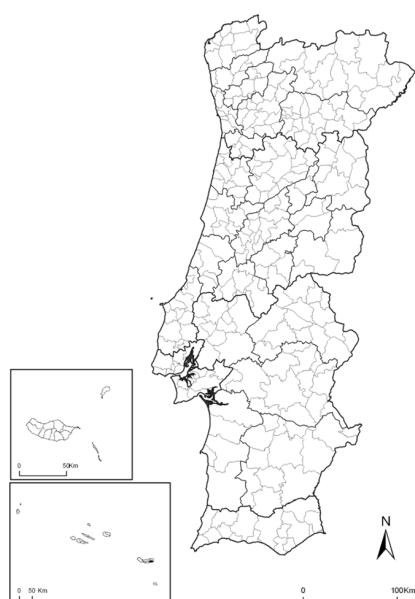
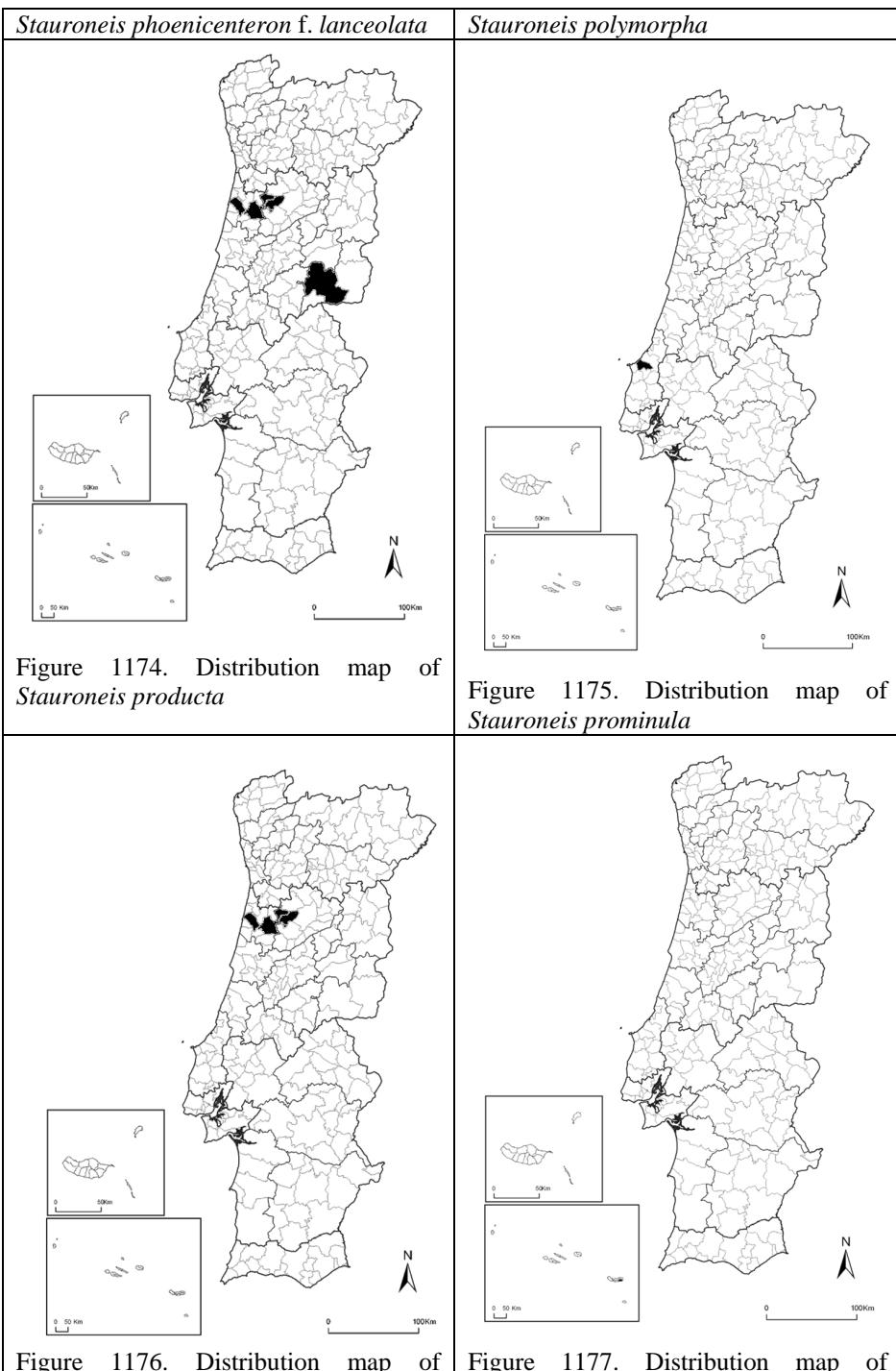
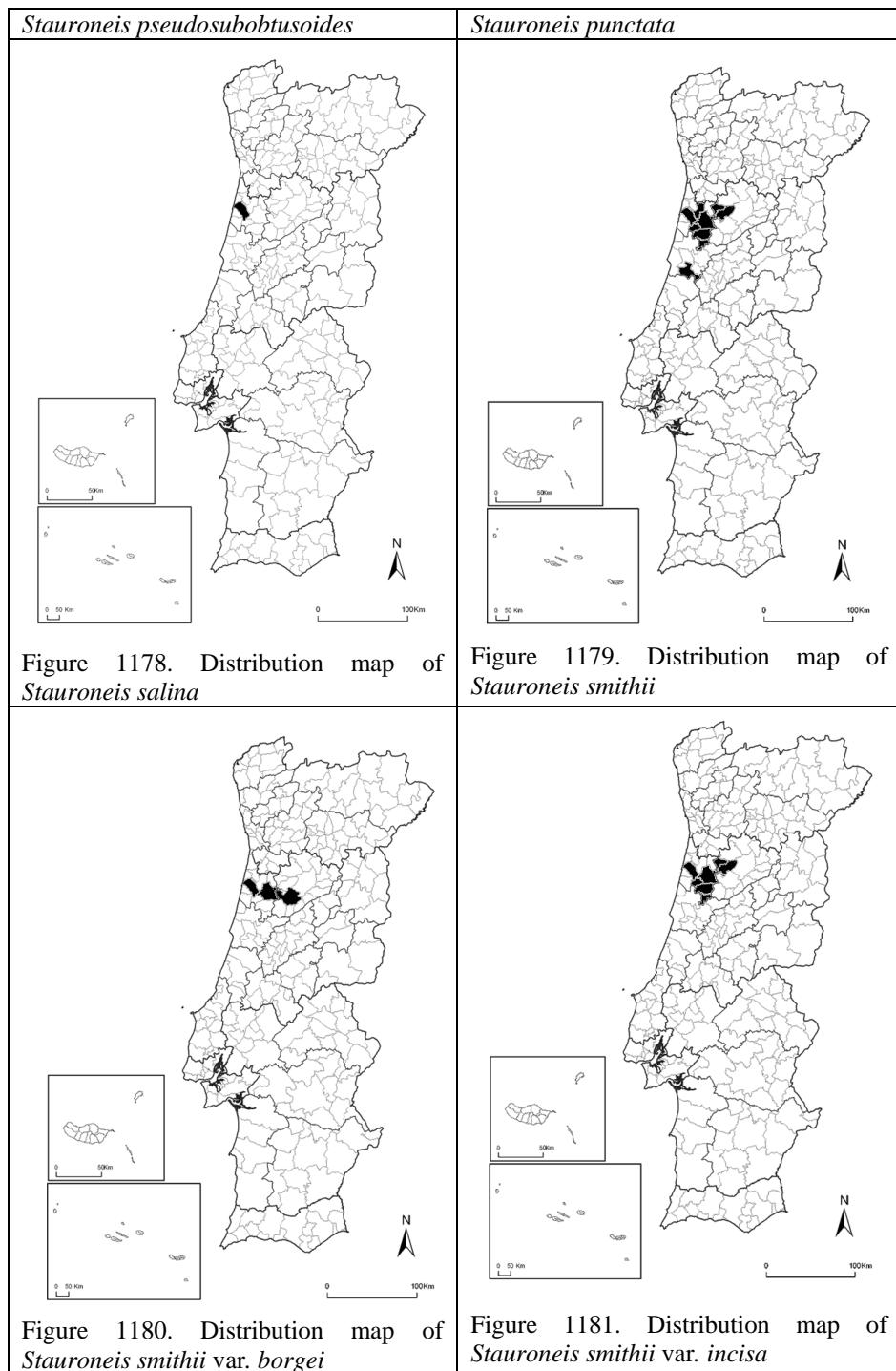


Figure 1172. Distribution map of

Figure 1173. Distribution map of





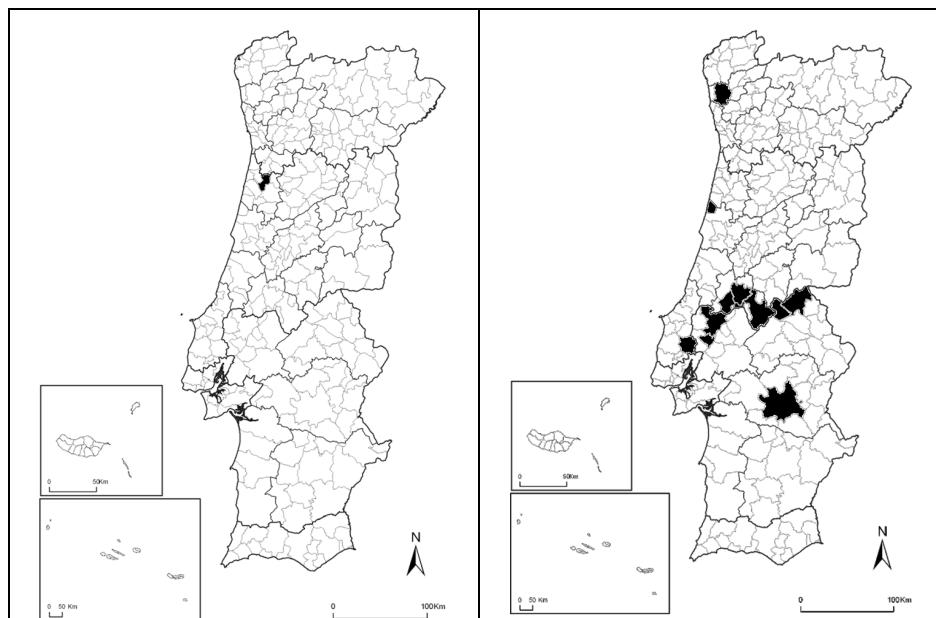


Figure 1182. Distribution map of *Stauroneis thermicola*

Figure 1183. Distribution map of *Stauroneis* sp.

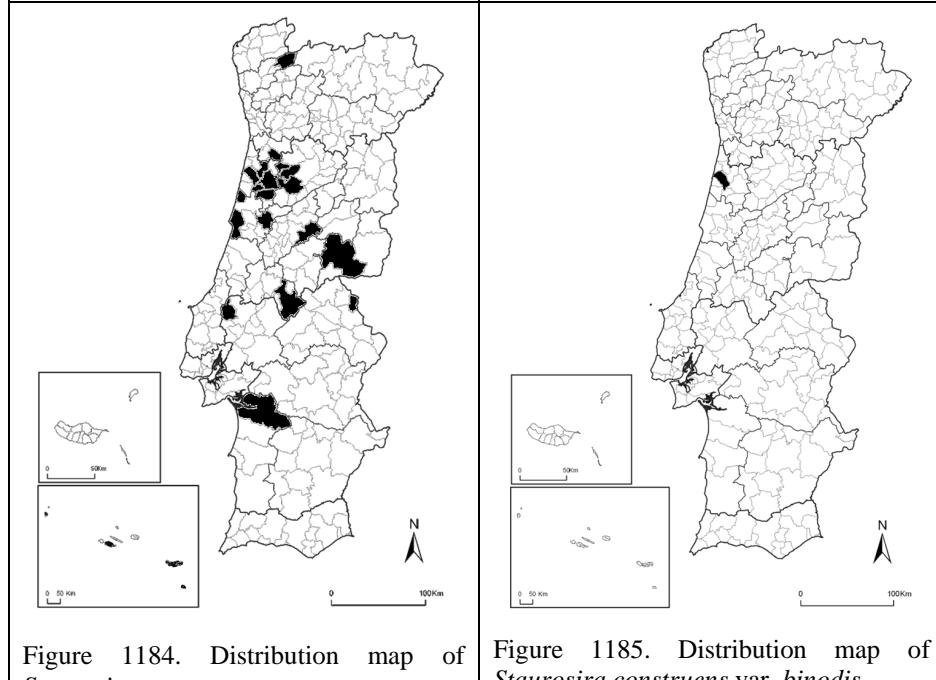


Figure 1184. Distribution map of *Staurosira construens*

Figure 1185. Distribution map of *Staurosira construens* var. *binodis*

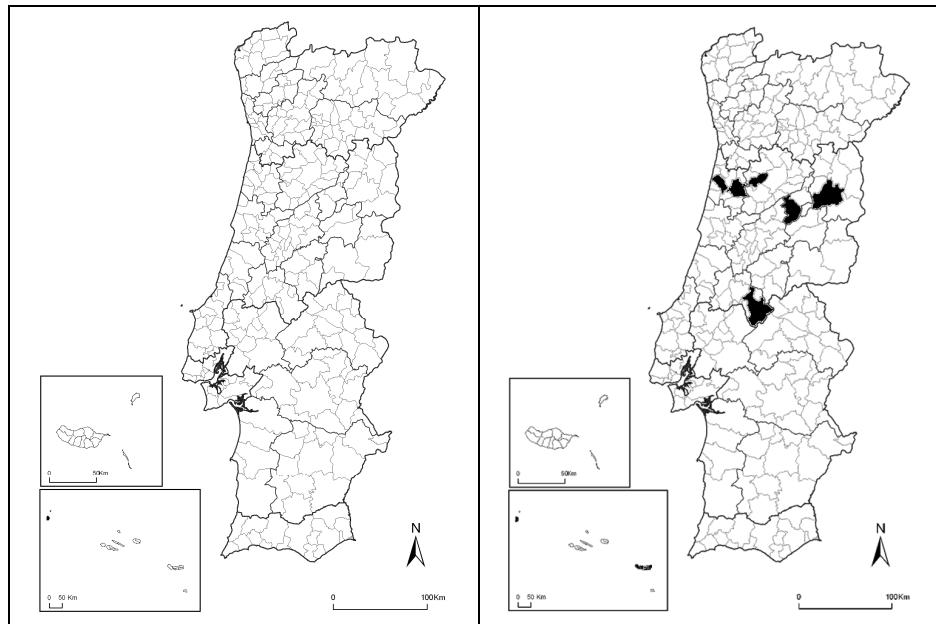


Figure 1186. Distribution map of *Staurosira elliptica*

Figure 1187. Distribution map of *Staurosira venter*

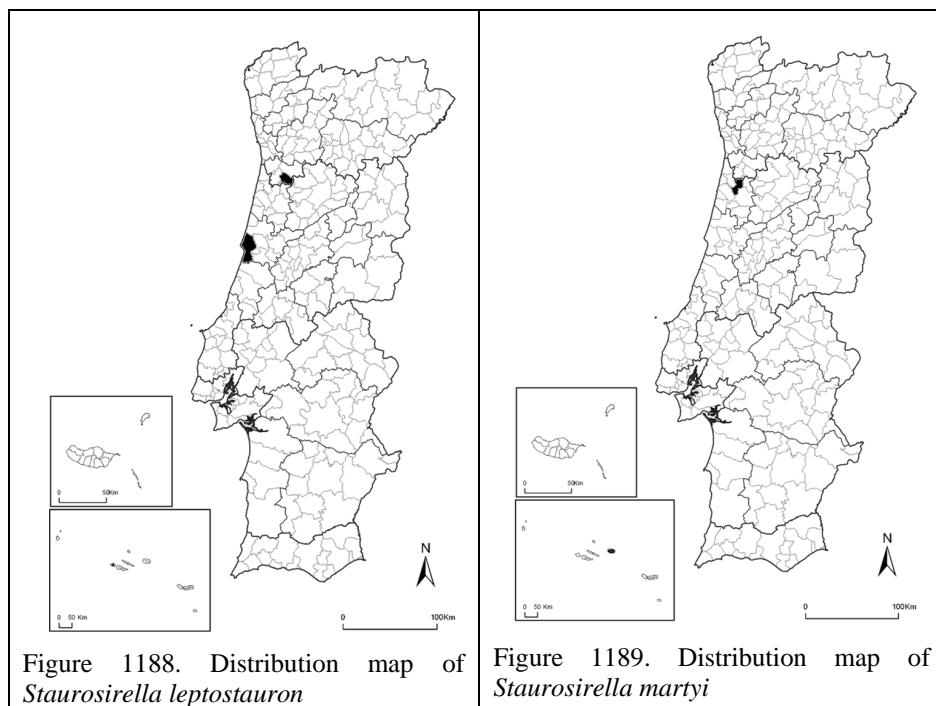


Figure 1188. Distribution map of *Staurosirella leptostauron*

Figure 1189. Distribution map of *Staurosirella martyi*

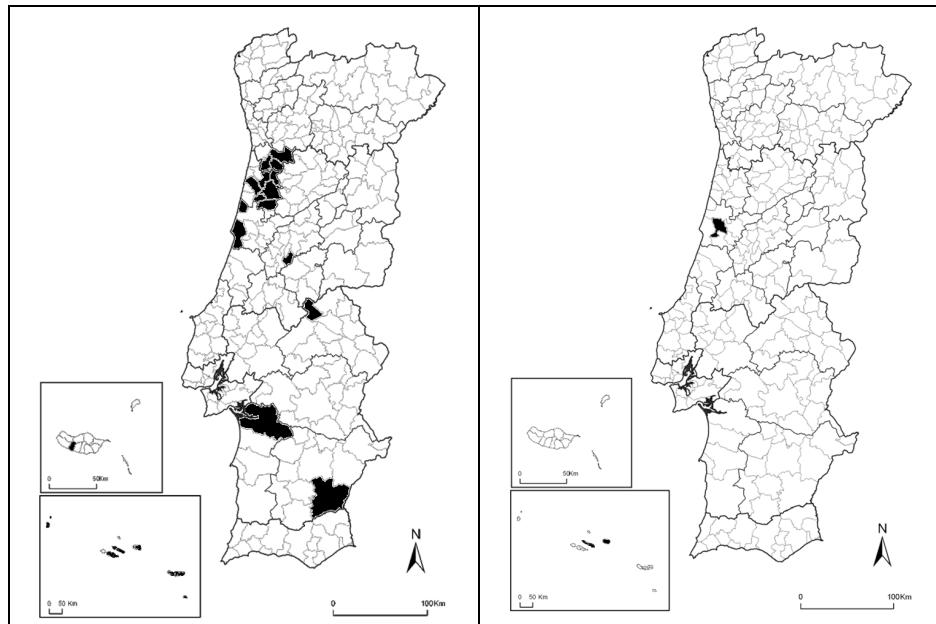


Figure 1190. Distribution map of *Staurosirella pinnata*

Figure 1191. Distribution map of *Stenopterobia curvula*

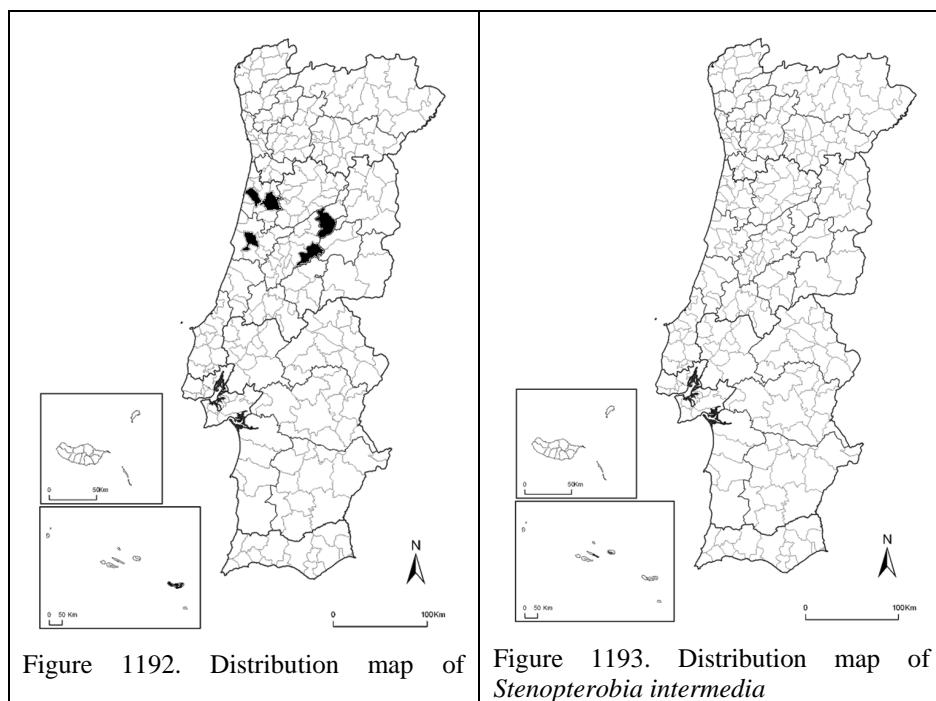
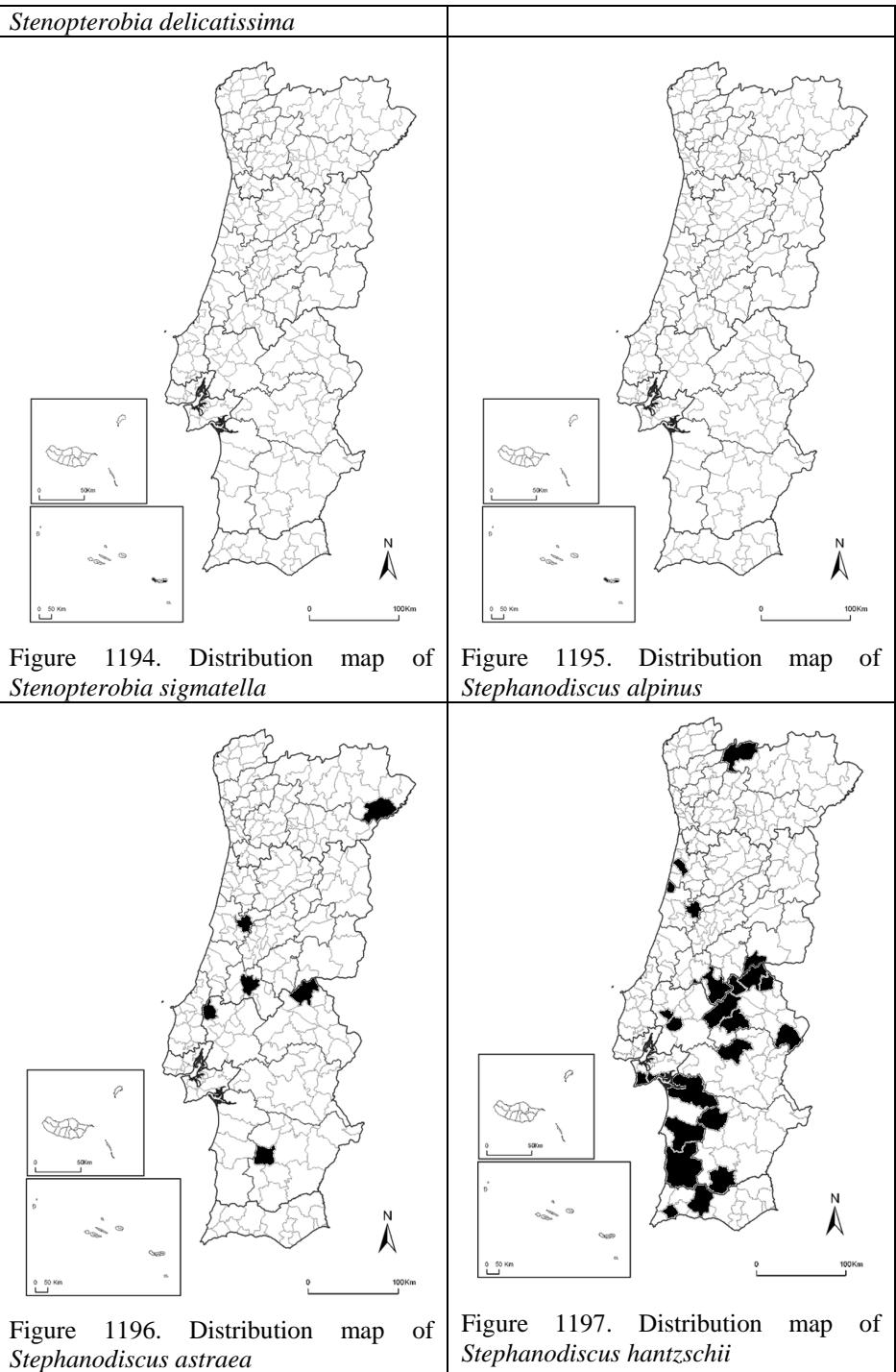
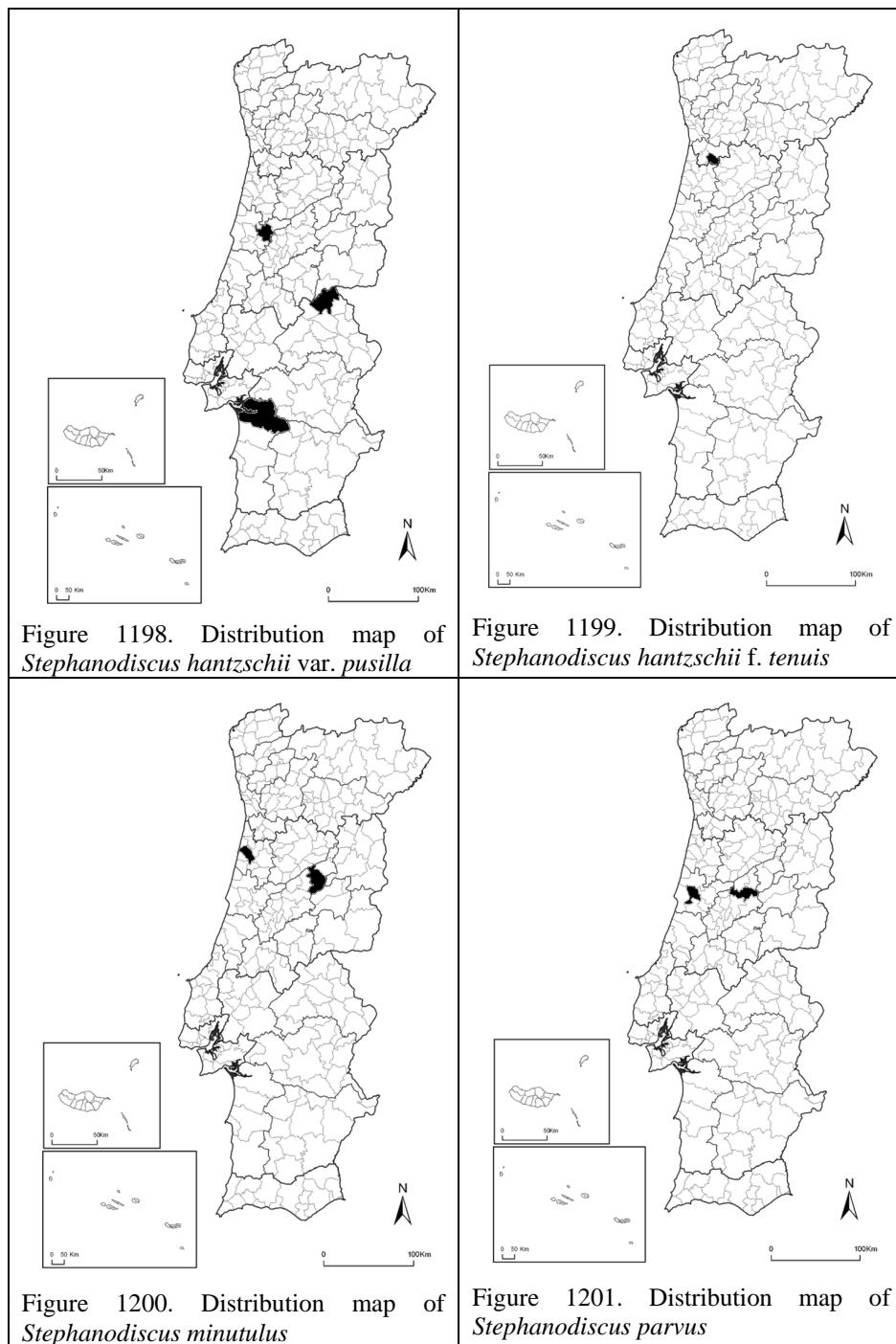
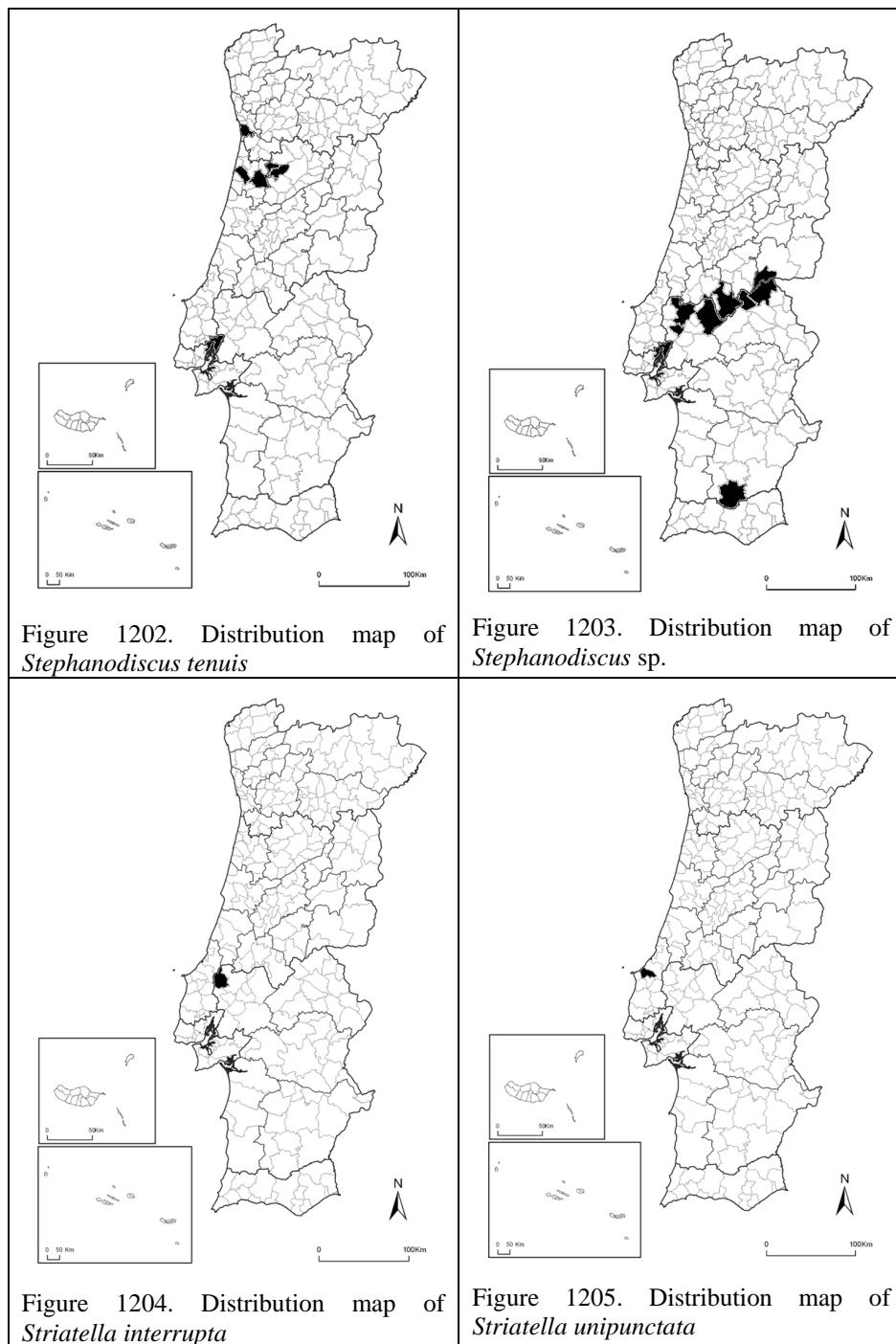


Figure 1192. Distribution map of *Staurosirella pinnata*

Figure 1193. Distribution map of *Stenopterobia intermedia*







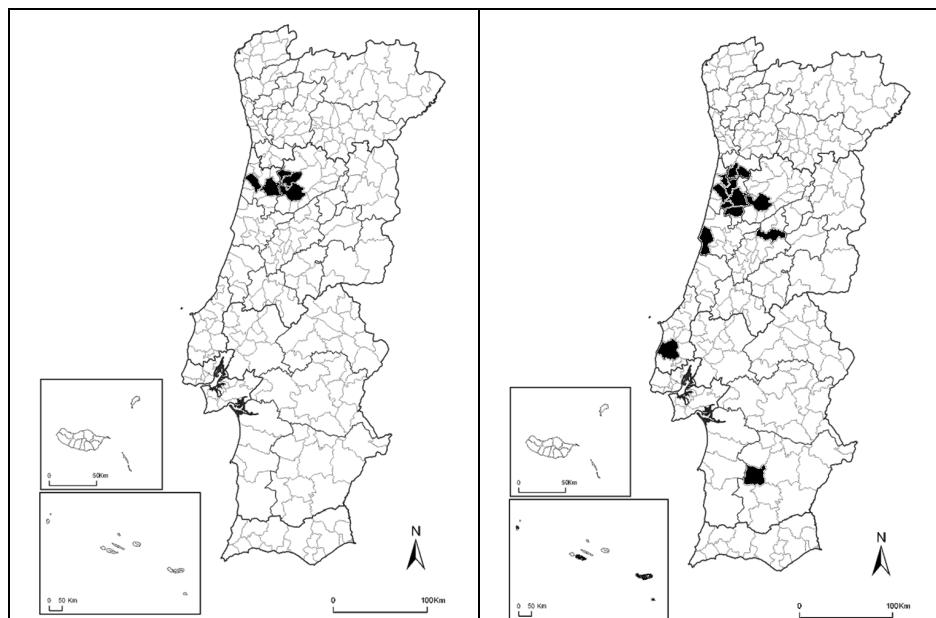


Figure 1206. Distribution map of *Surirella aculeata*

Figure 1207. Distribution map of *Surirella angusta*

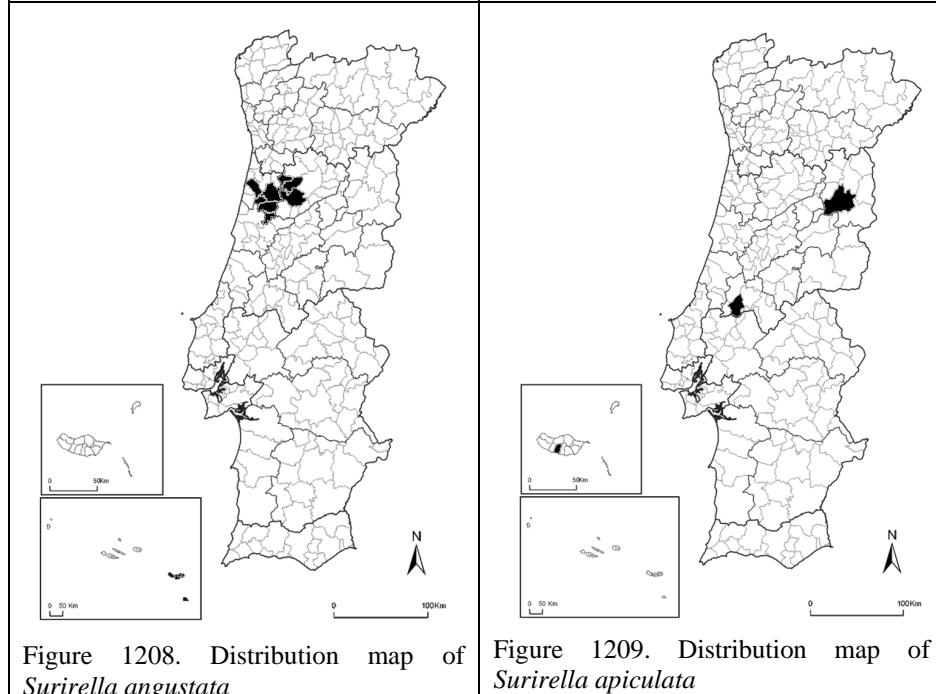


Figure 1208. Distribution map of *Surirella angustata*

Figure 1209. Distribution map of *Surirella apiculata*

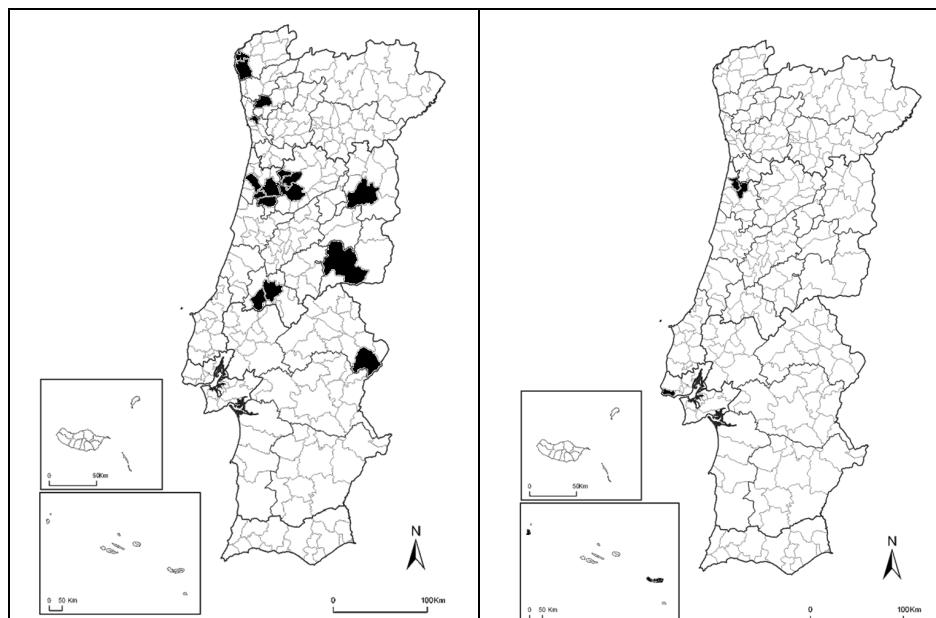


Figure 1210. Distribution map of *Surirella biseriata*

Figure 1211. Distribution map of *Surirella biseriata* f. *amphioxys*

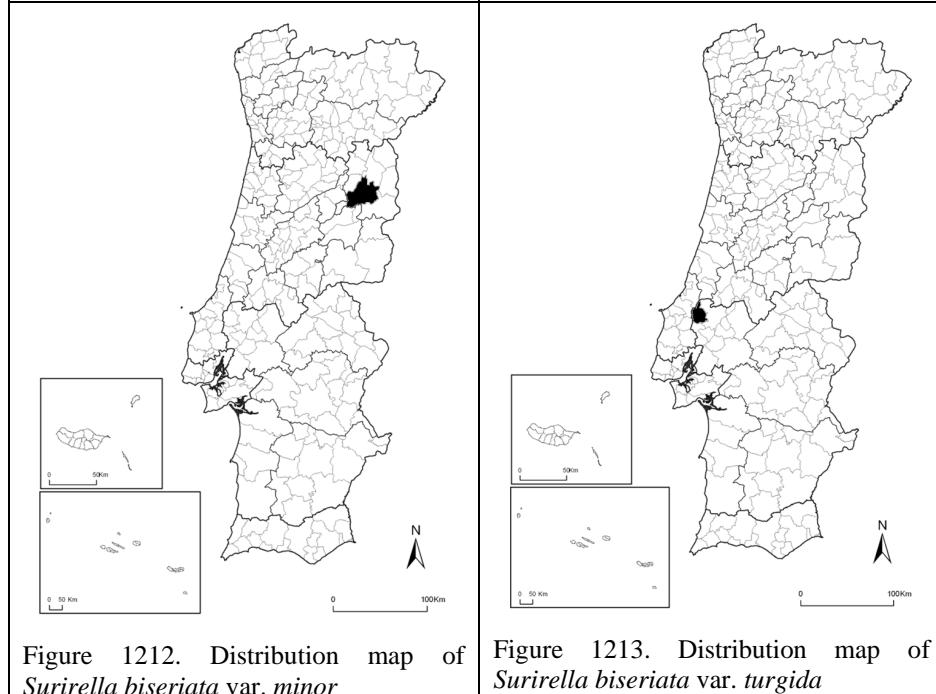


Figure 1212. Distribution map of *Surirella biseriata* var. *minor*

Figure 1213. Distribution map of *Surirella biseriata* var. *turgida*

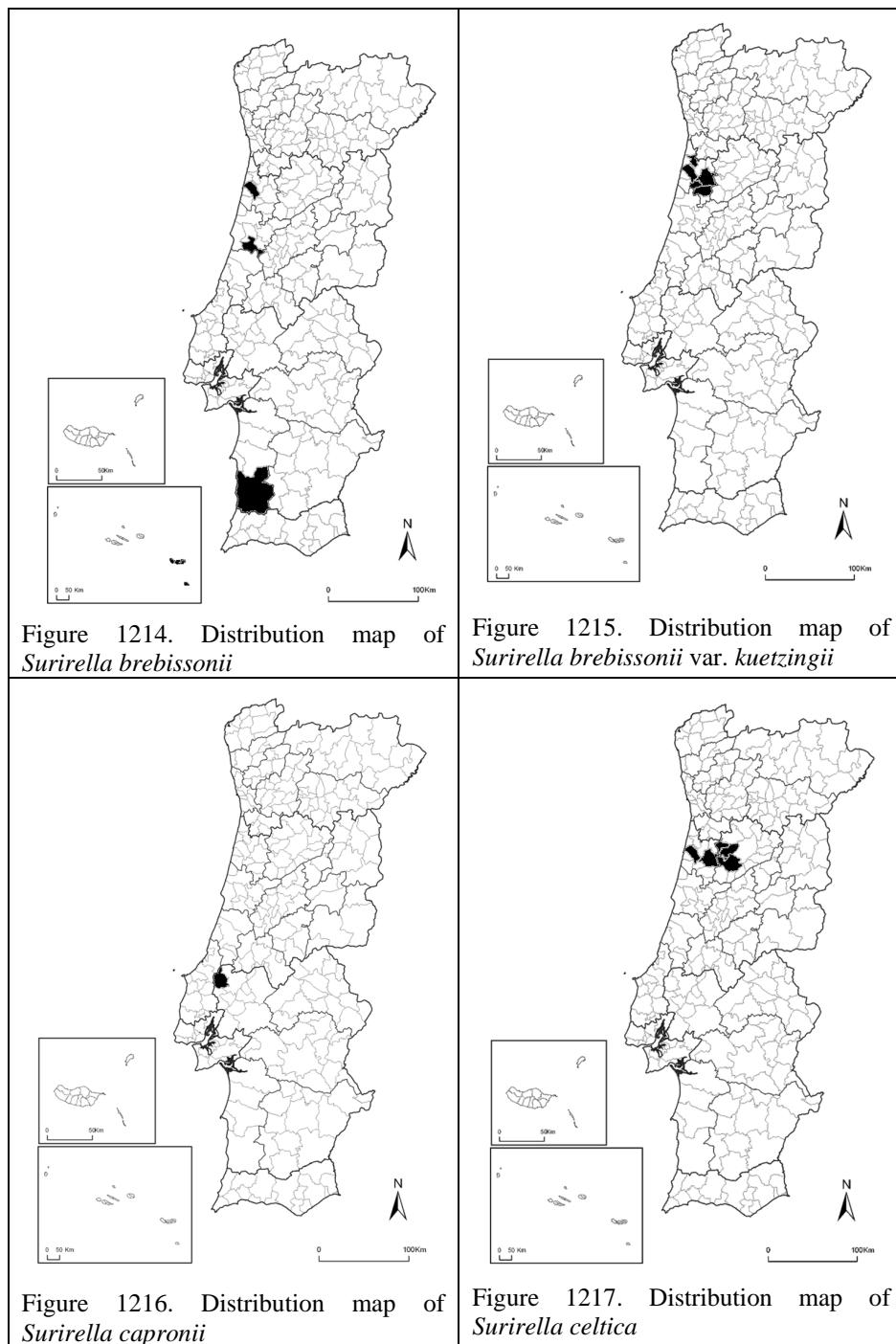


Figure 1214. Distribution map of *Surirella brebissonii*

Figure 1215. Distribution map of *Surirella brebissonii* var. *kuetzingii*

Figure 1216. Distribution map of *Surirella capronii*

Figure 1217. Distribution map of *Surirella celtica*

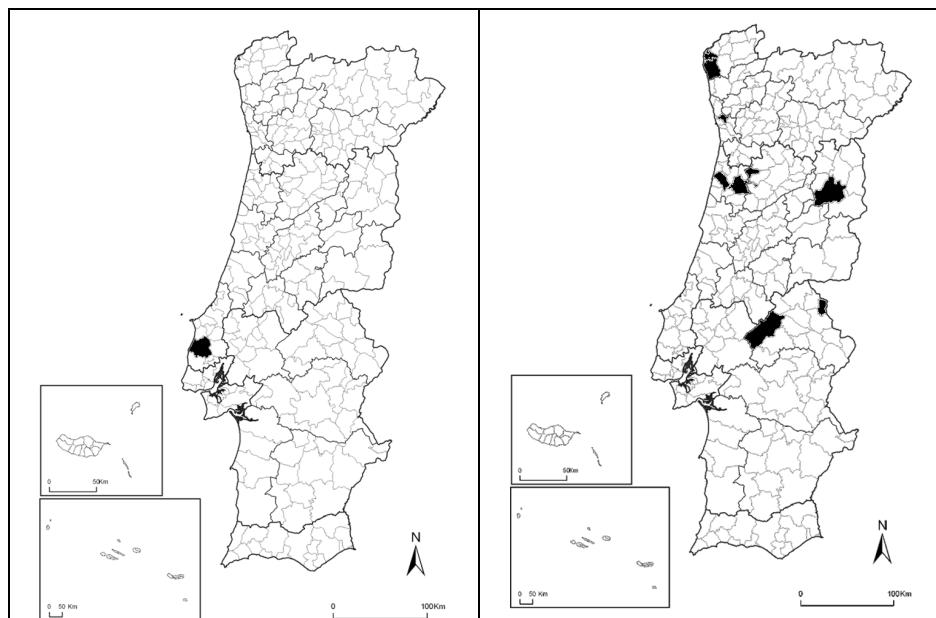


Figure 1218. Distribution map of *Surirella crumena*

Figure 1219. Distribution map of *Surirella elegans*

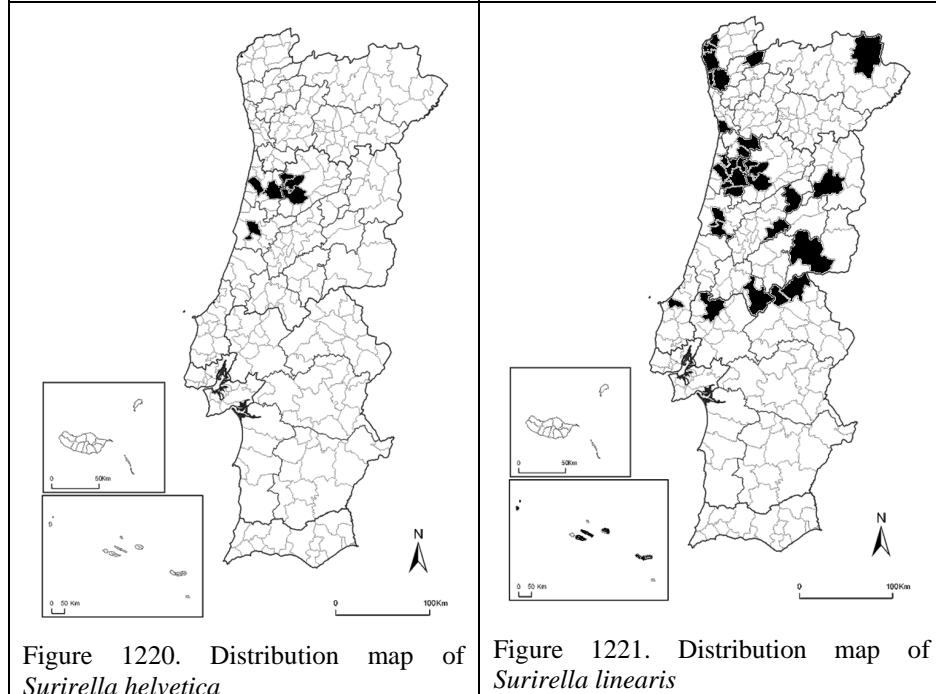
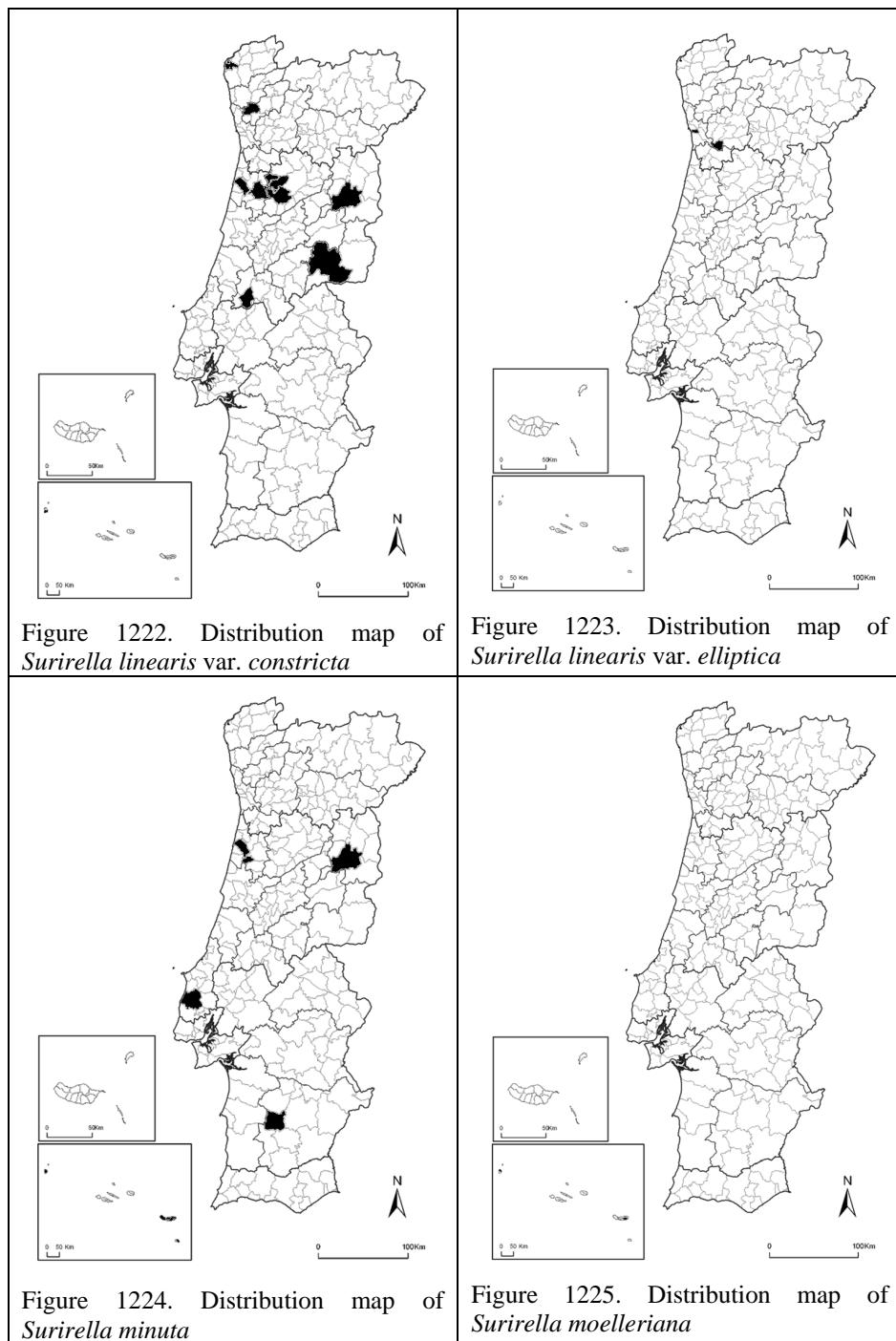


Figure 1220. Distribution map of *Surirella helvetica*

Figure 1221. Distribution map of *Surirella linearis*



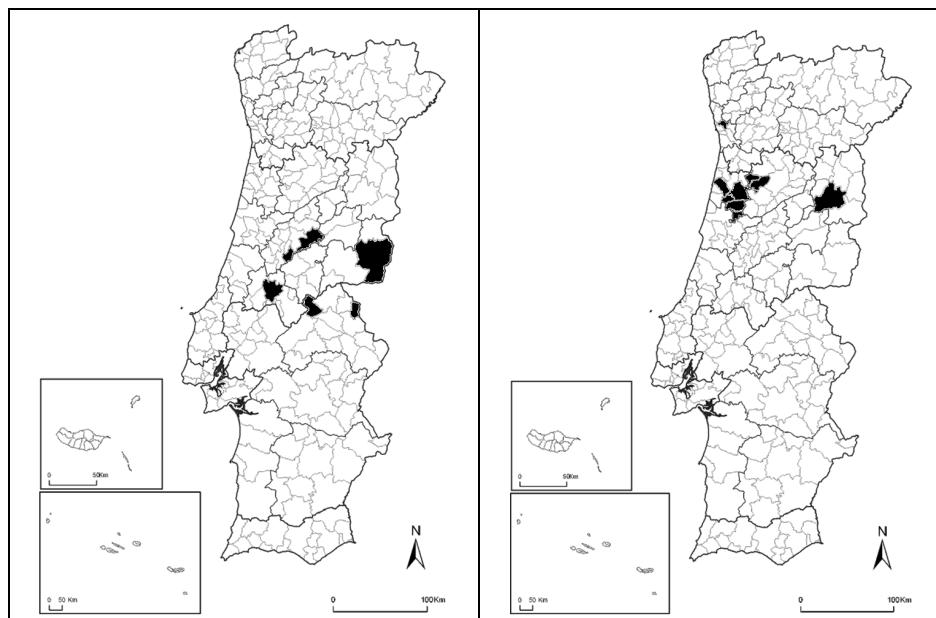


Figure 1226. Distribution map of *Surirella nana*

Figure 1227. Distribution map of *Surirella nervosa*

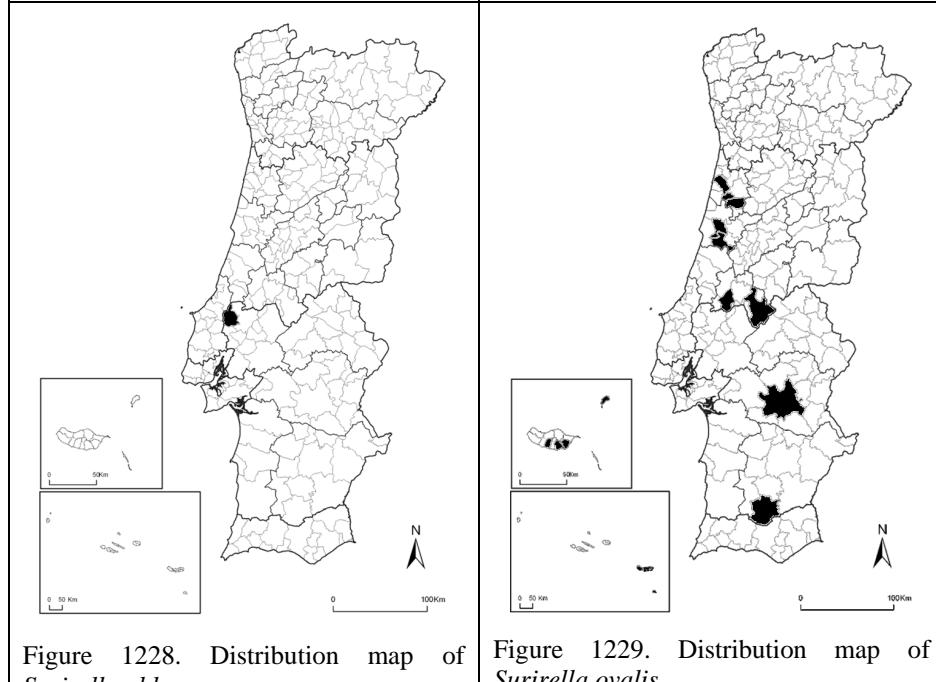
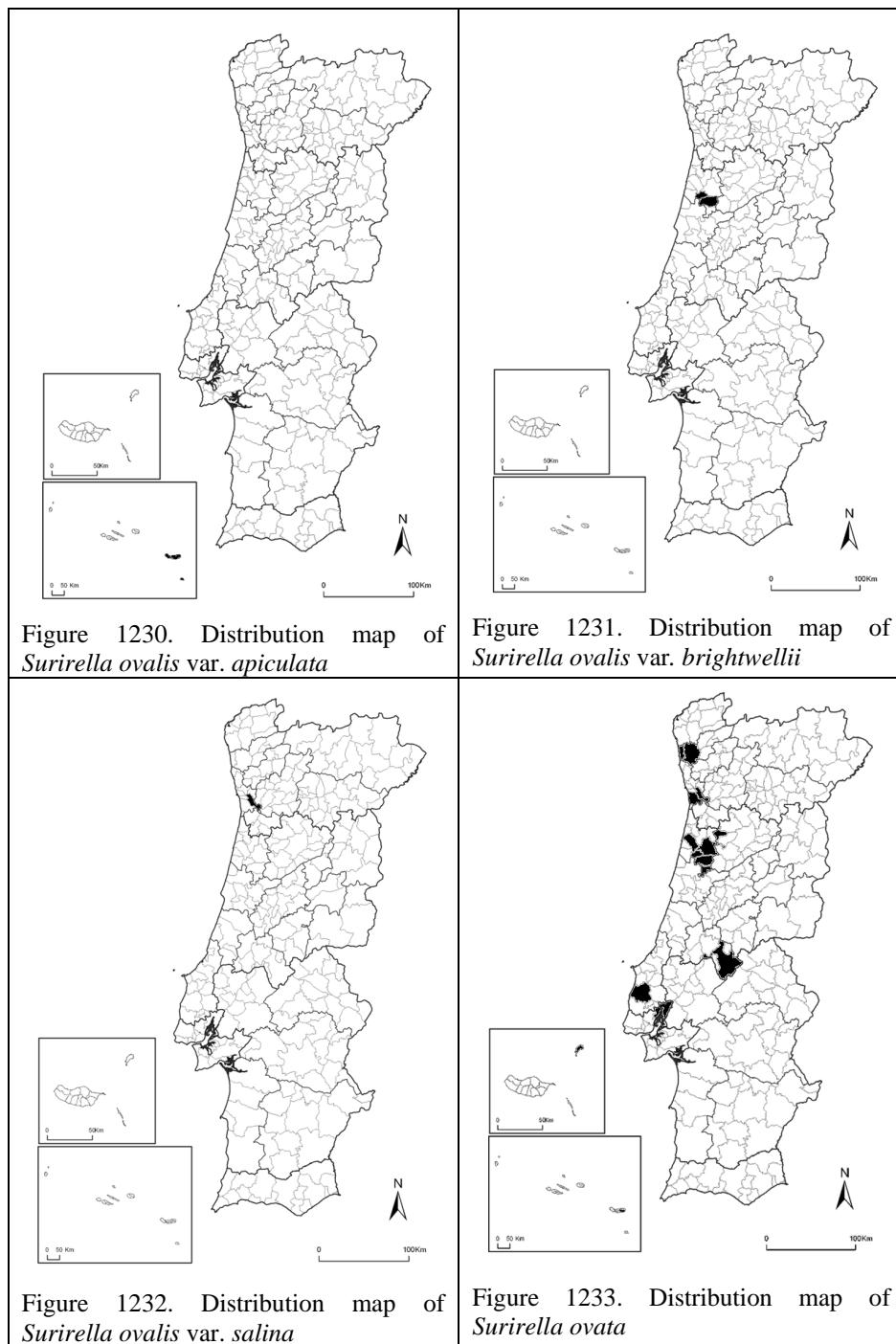
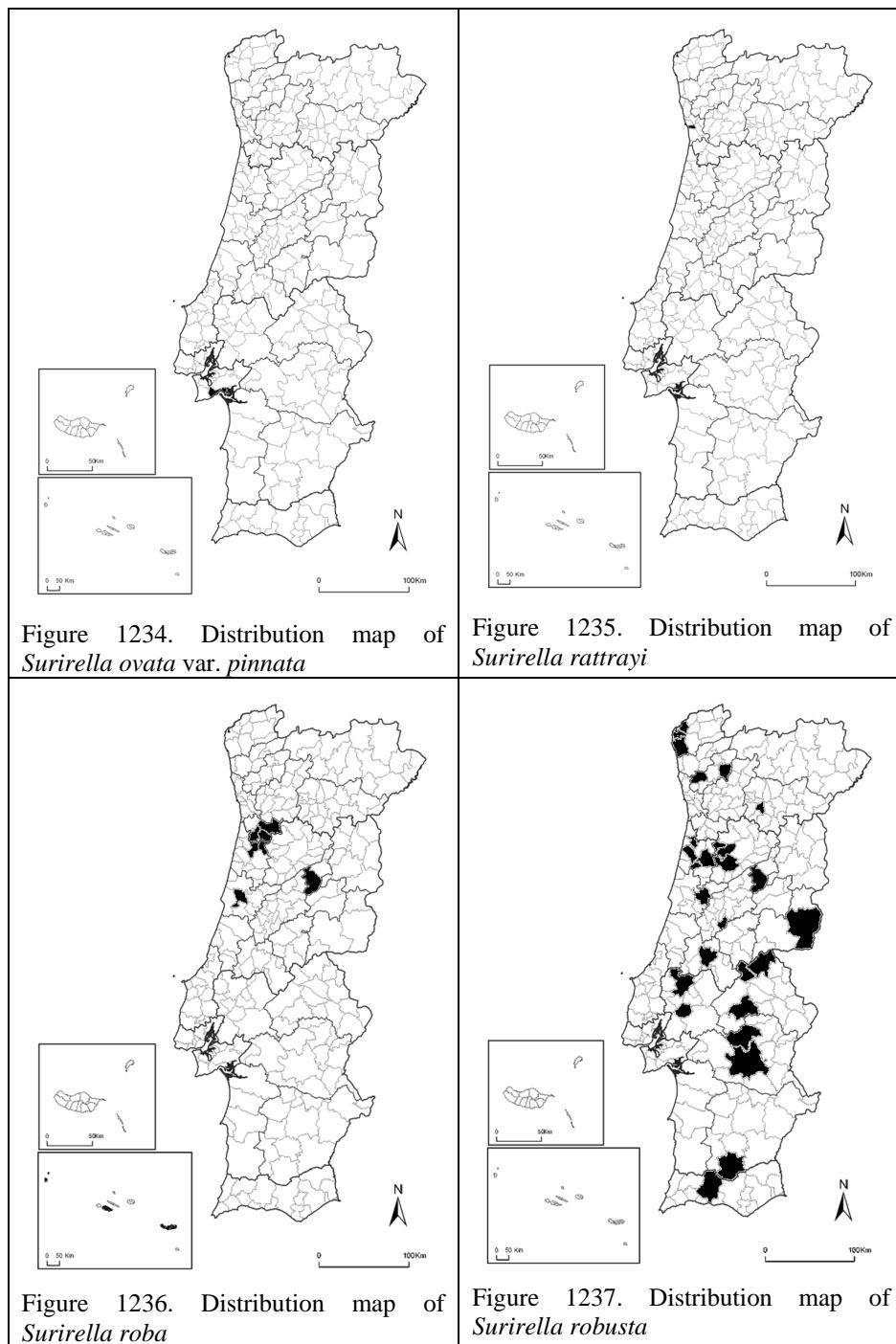


Figure 1228. Distribution map of *Surirella oblonga*

Figure 1229. Distribution map of *Surirella ovalis*





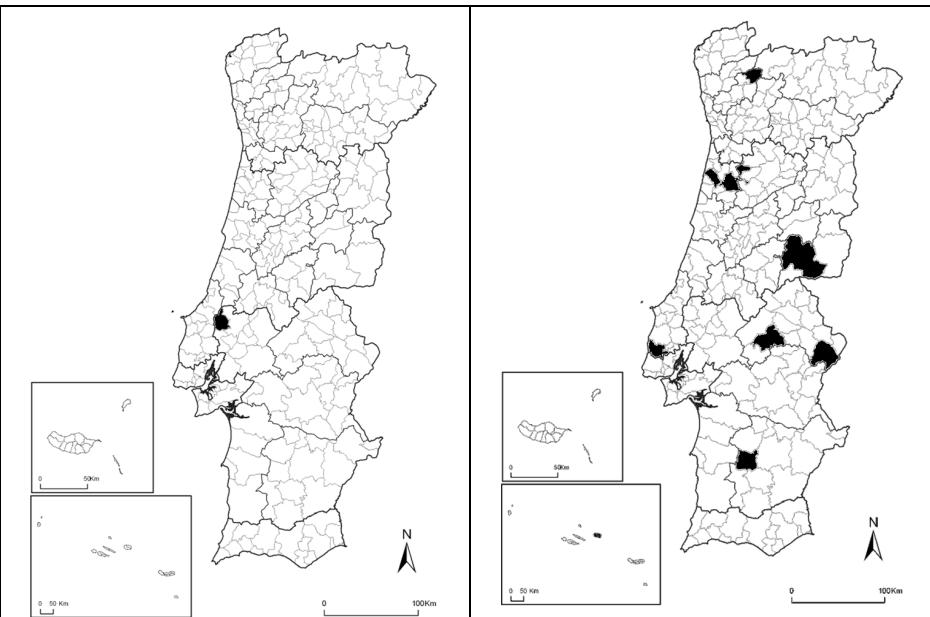


Figure 1238. Distribution map of *Surirella smithii*

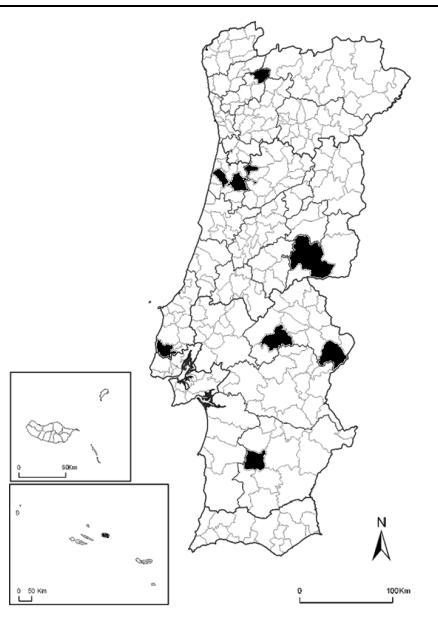


Figure 1239. Distribution map of *Surirella splendida*

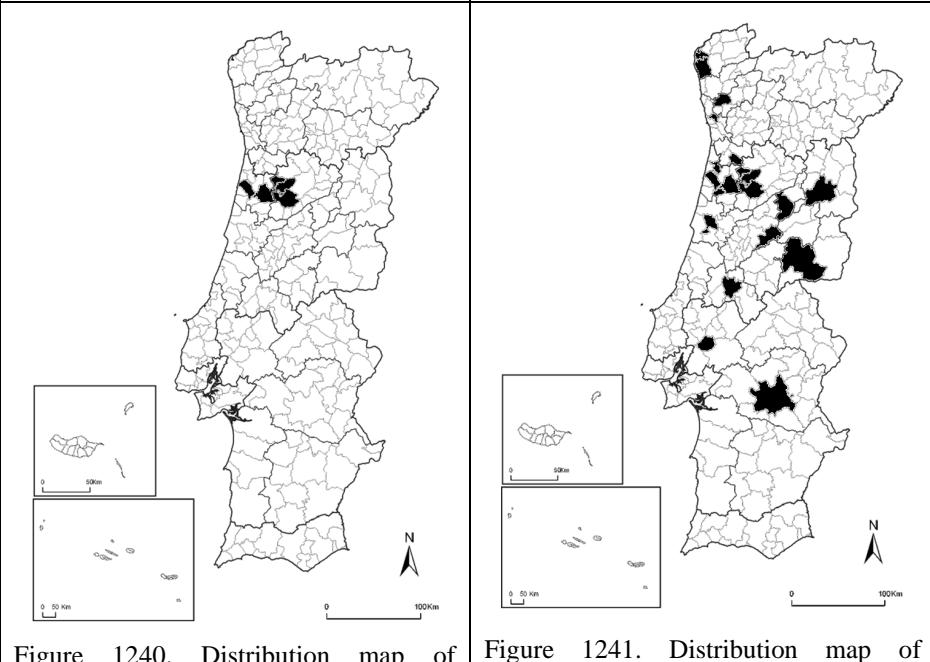


Figure 1240. Distribution map of *Surirella sublinearis*

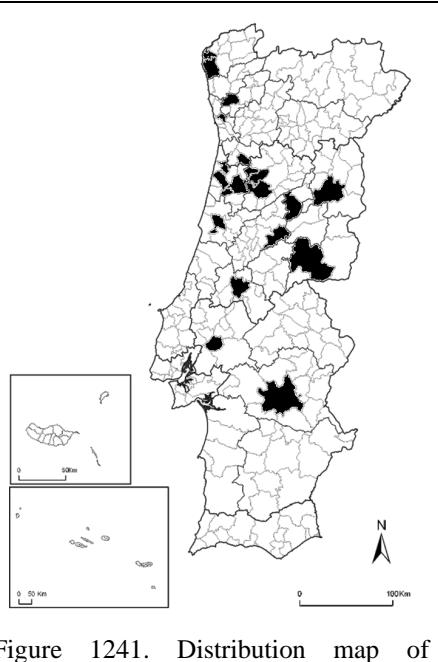


Figure 1241. Distribution map of *Surirella tenera*

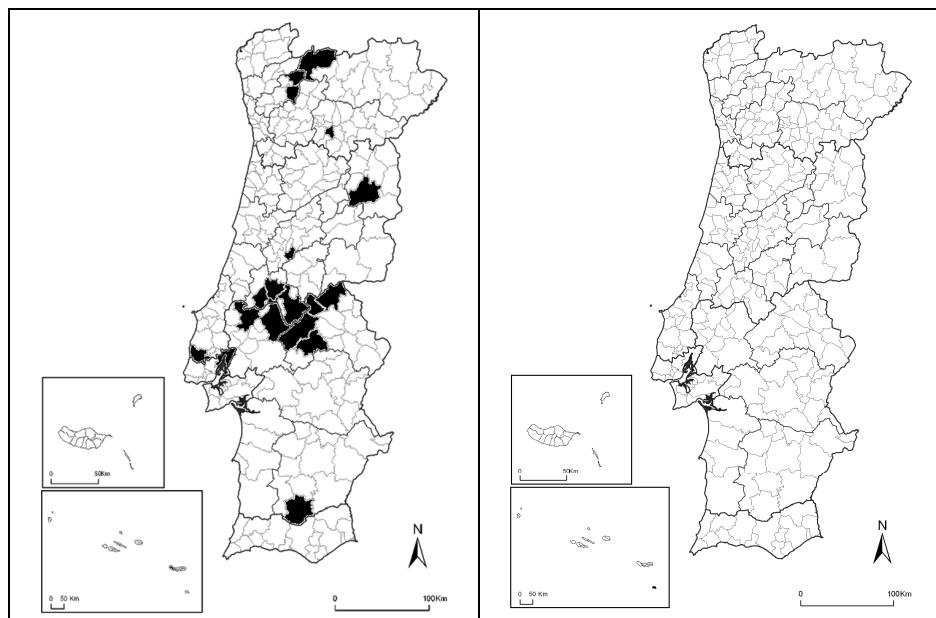


Figure 1242. Distribution map of *Surirella tenera* var. *splendidula*

Figure 1243. Distribution map of *Surirella terricola*

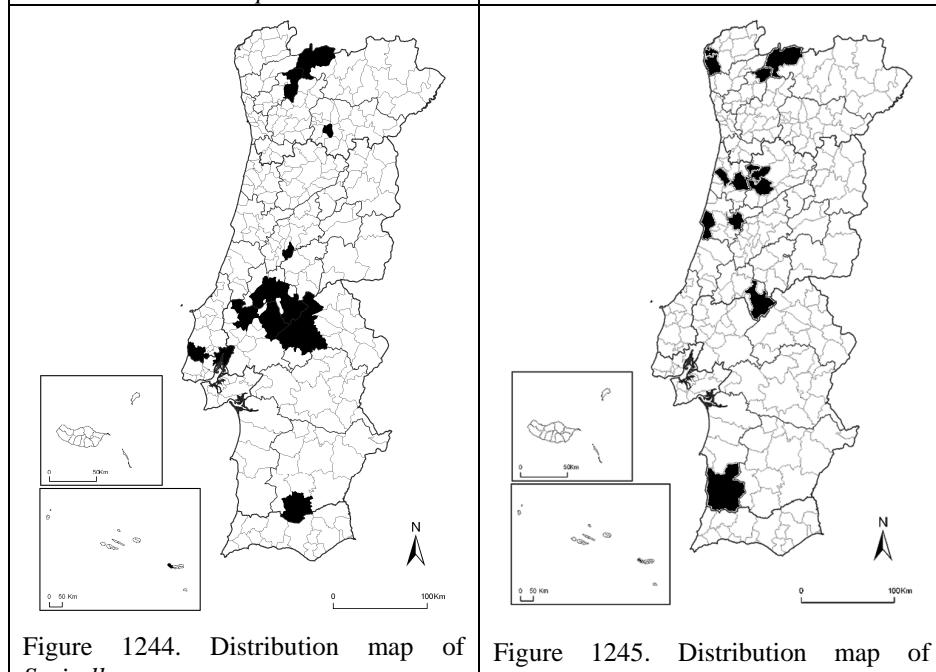


Figure 1244. Distribution map of *Surirella* sp.

Figure 1245. Distribution map of *Synedra acus* var. *angustissima*

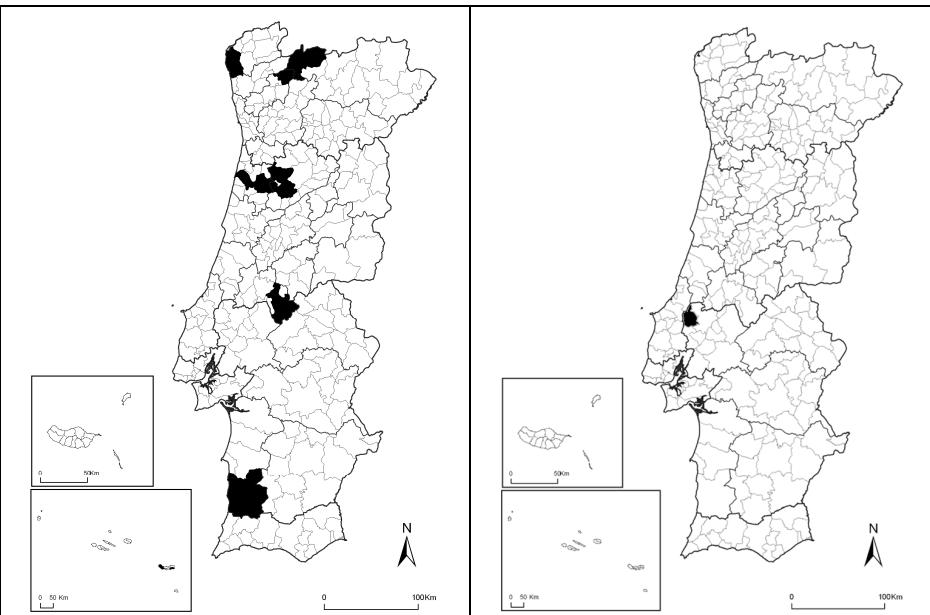


Figure 1246. Distribution map of
Synedra acus var. *delicatissima*

Figure 1247. Distribution map of
Synedra affinis var. *fasciculata*

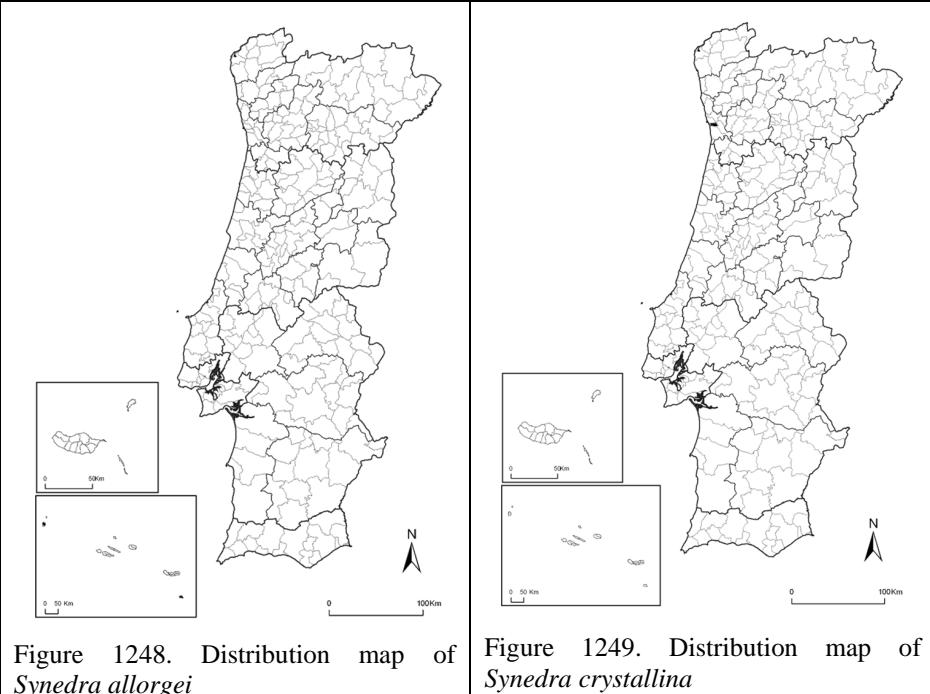
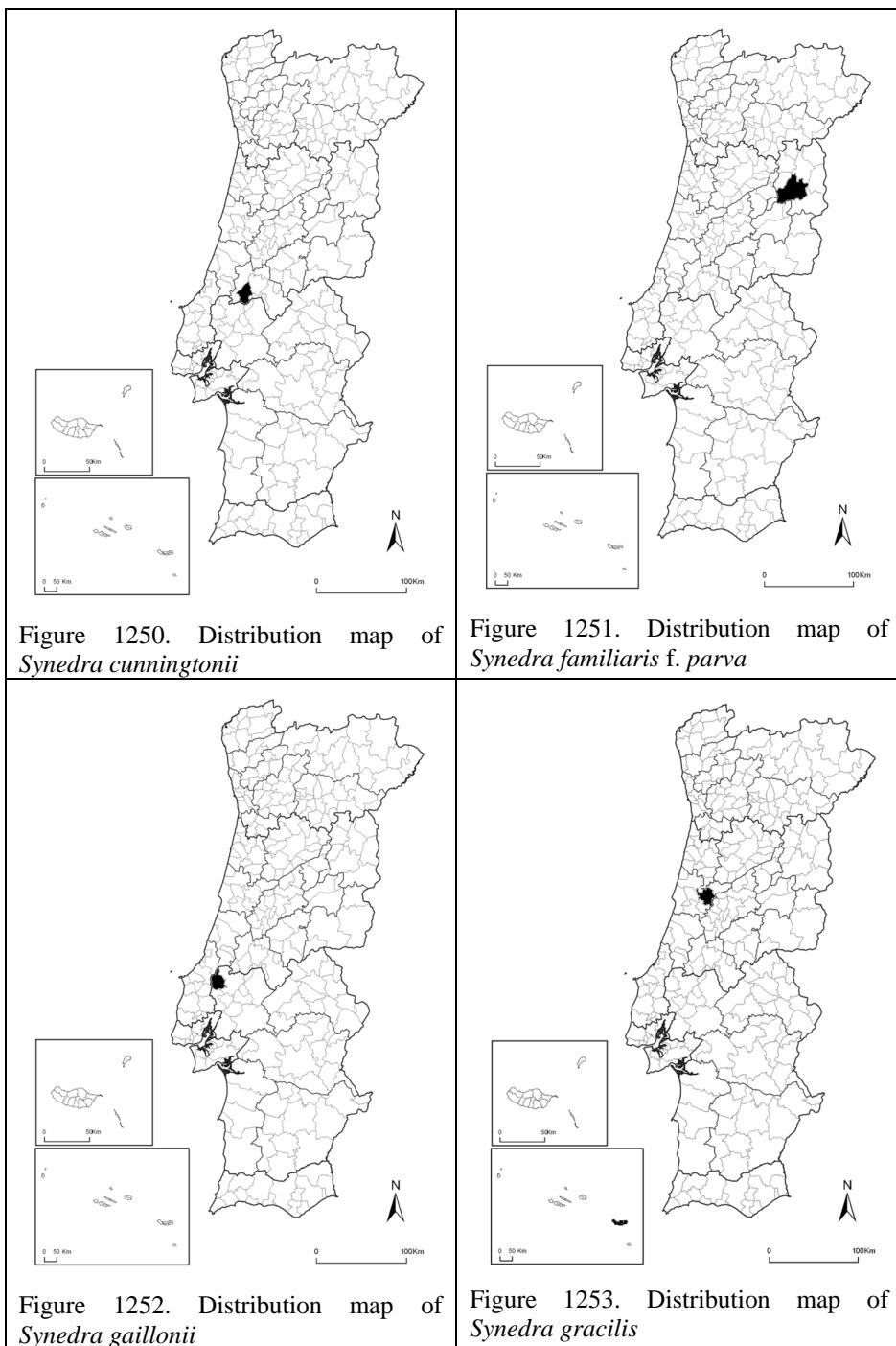


Figure 1248. Distribution map of
Synedra allorgei

Figure 1249. Distribution map of
Synedra crystallina



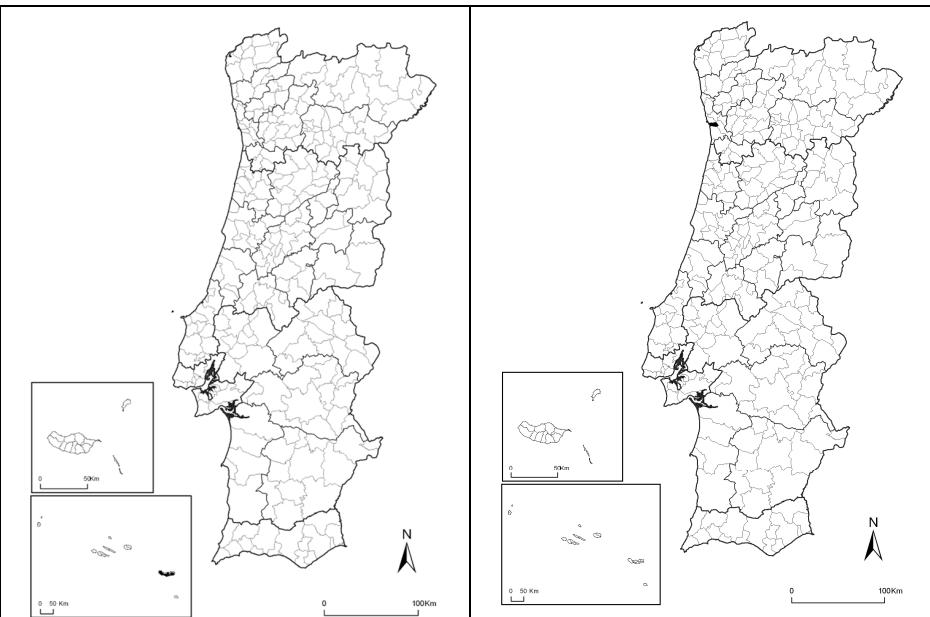


Figure 1254. Distribution map of *Synedra parva*

Figure 1255. Distribution map of *Synedra pinnata*

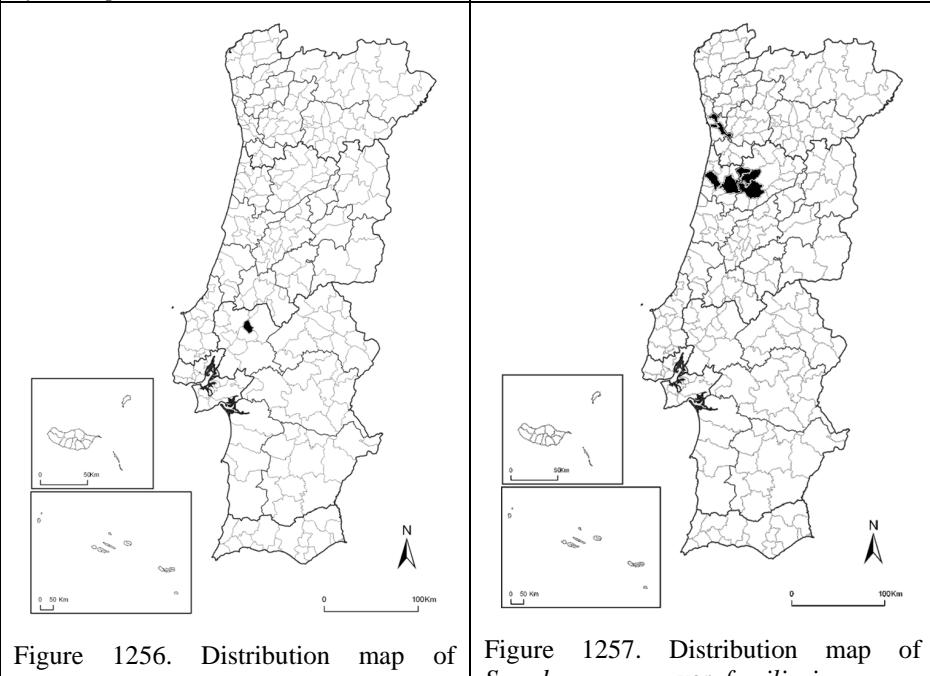


Figure 1256. Distribution map of *Synedra polymorpha*

Figure 1257. Distribution map of *Synedra rumpens* var. *familiaris*

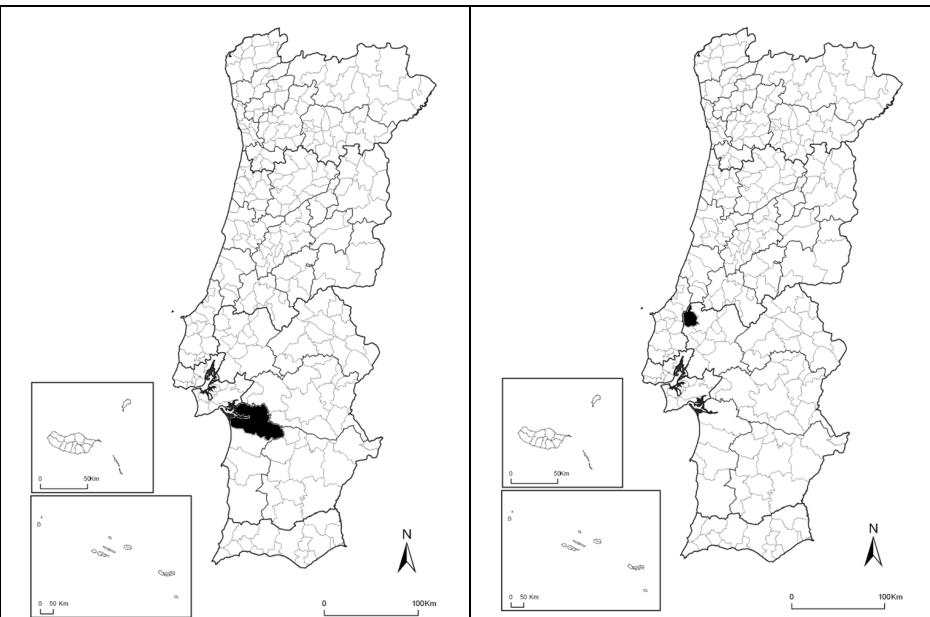


Figure 1258. Distribution map of *Synedra tabulata* var. *hybrida*

Figure 1259. Distribution map of *Synedra tenuis*

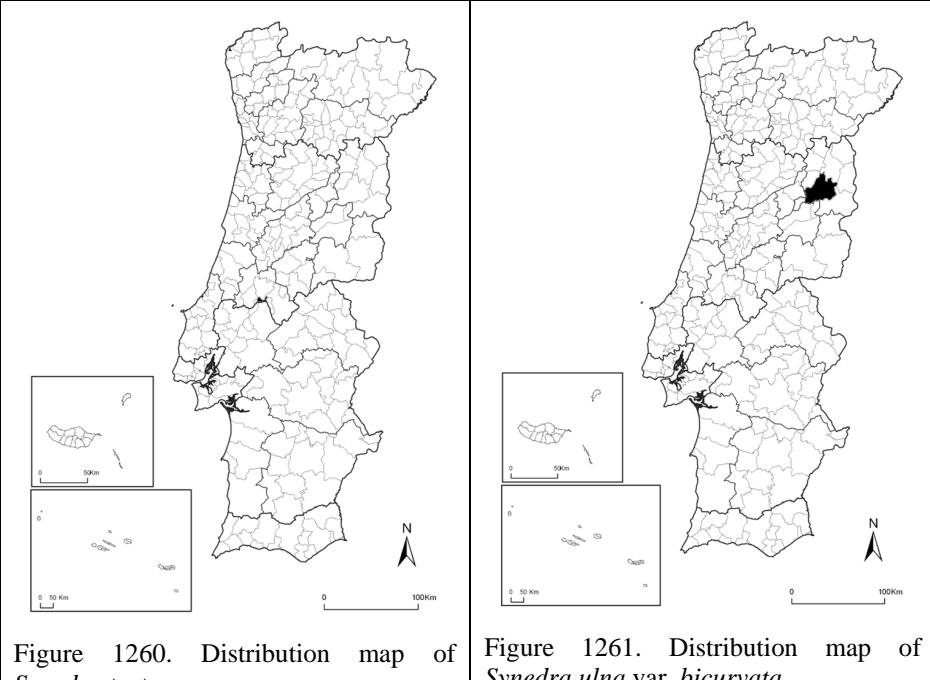


Figure 1260. Distribution map of *Synedra torta*

Figure 1261. Distribution map of *Synedra ulna* var. *bicurvata*

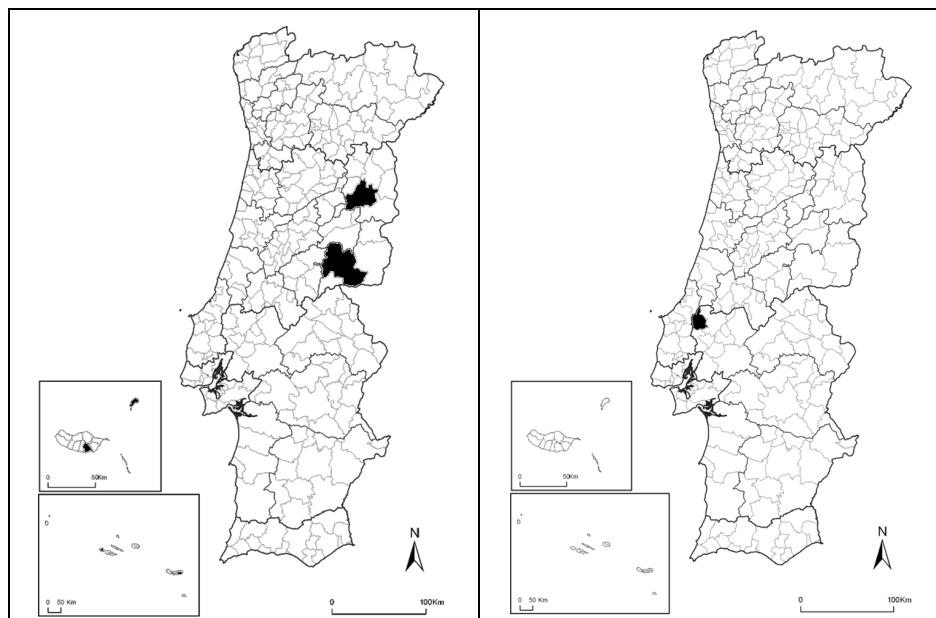


Figure 1262. Distribution map of *Synedra ulna* var. *longissima*

Figure 1263. Distribution map of *Synedra vitrea*

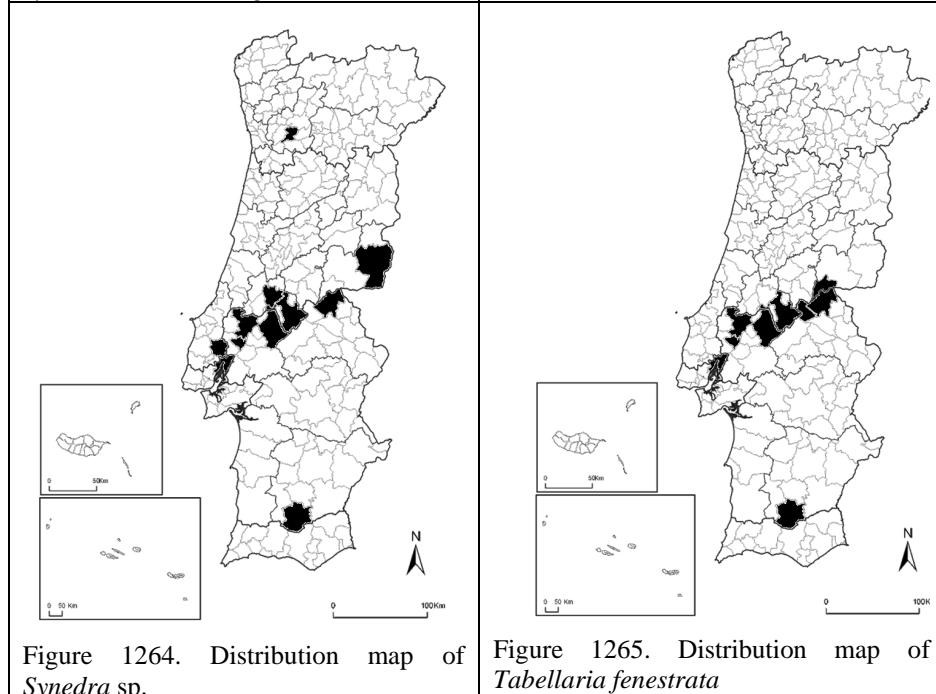
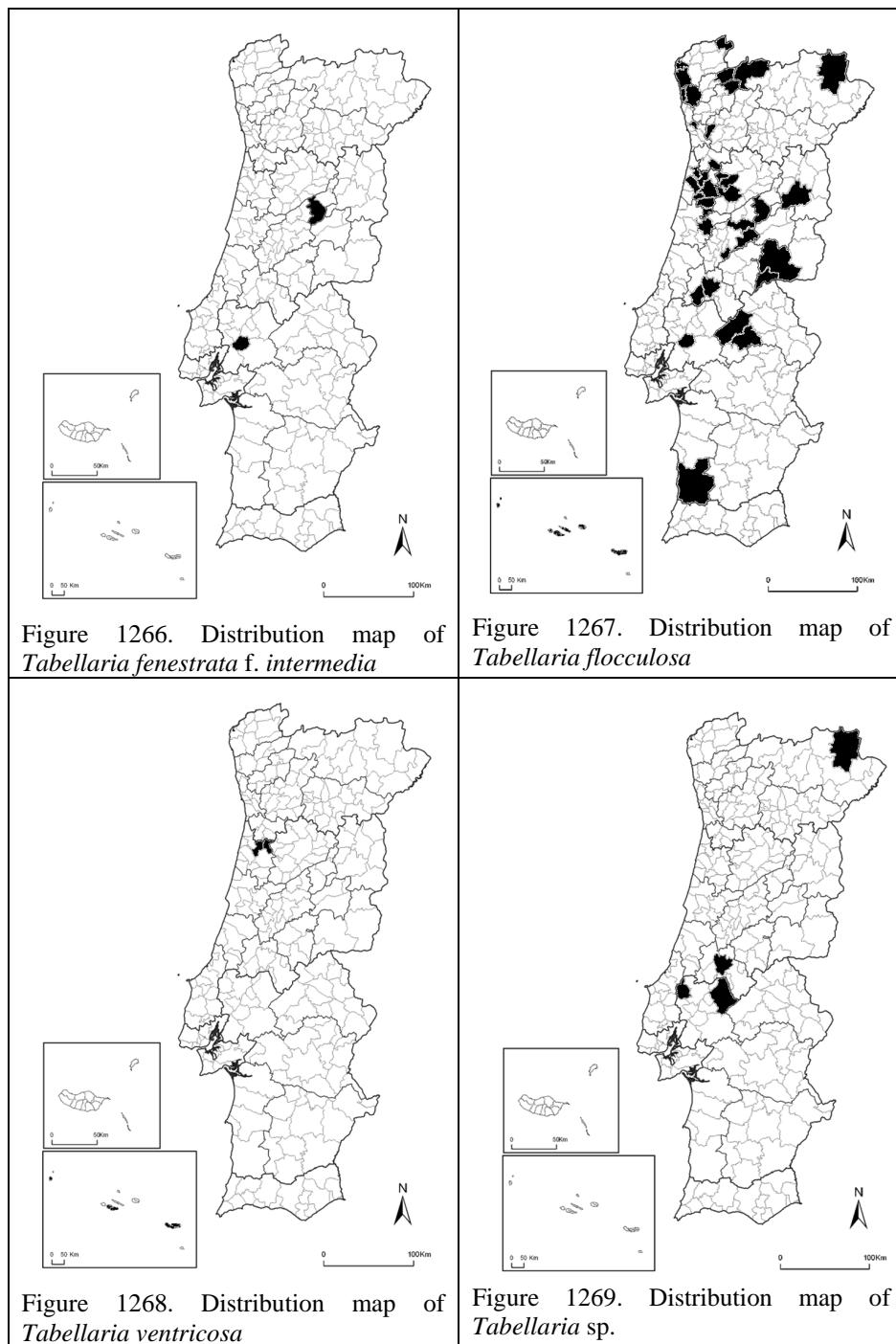


Figure 1264. Distribution map of *Synedra* sp.

Figure 1265. Distribution map of *Tabellaria fenestrata*



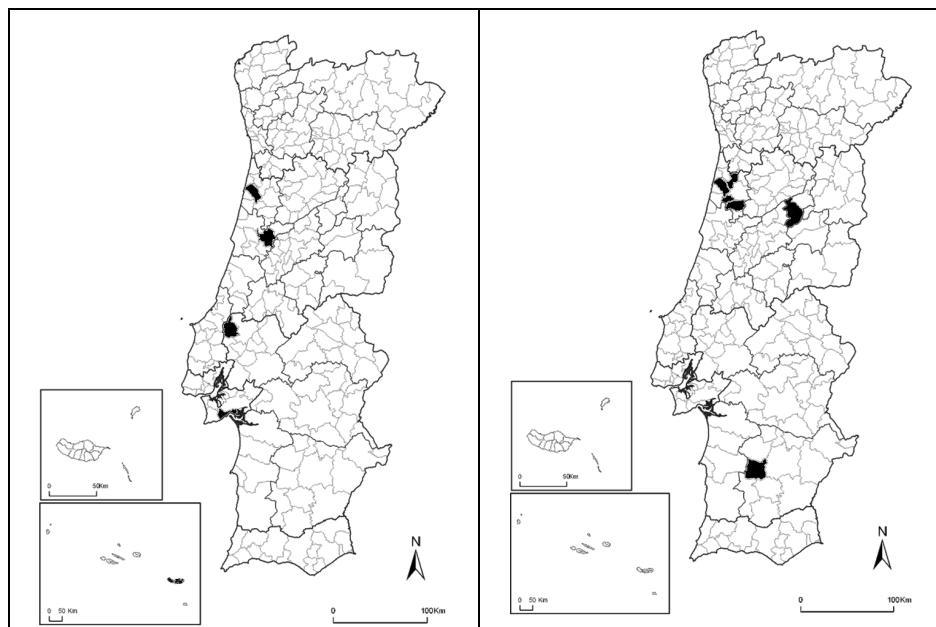


Figure 1270. Distribution map of *Tabularia affinis*

Figure 1271. Distribution map of *Tabularia fasciculata*

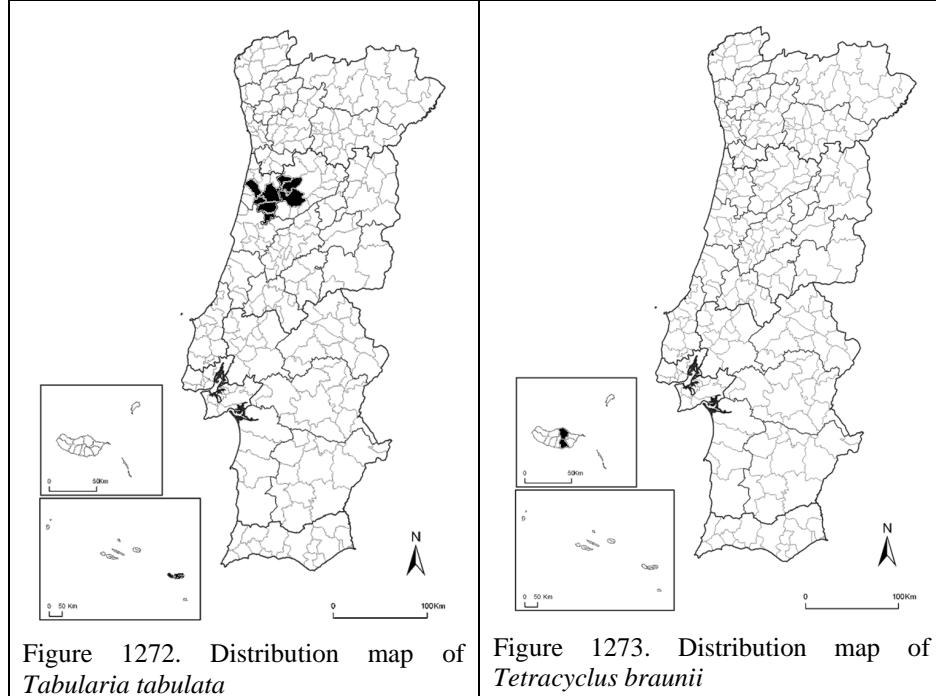
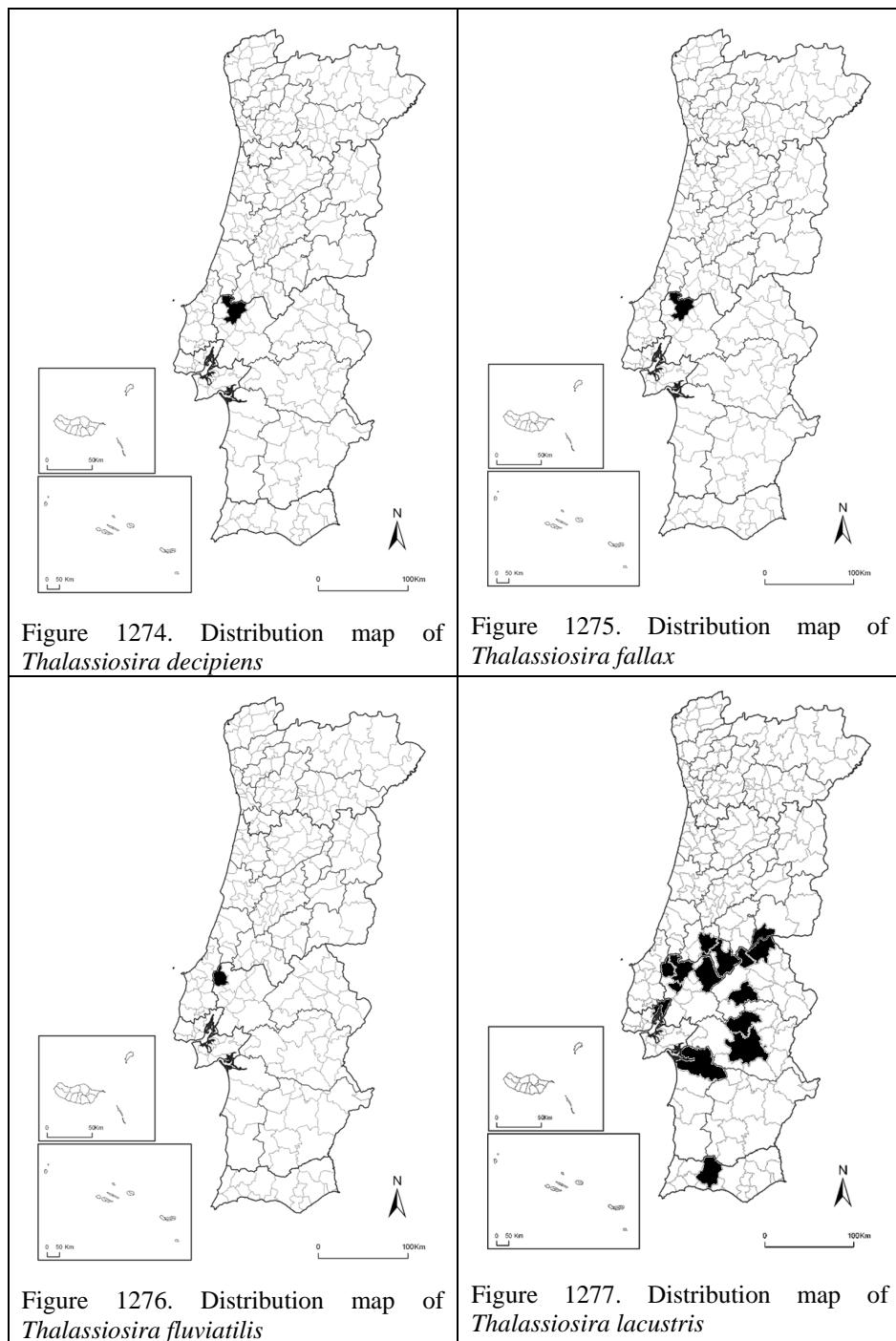


Figure 1272. Distribution map of *Tabularia tabulata*

Figure 1273. Distribution map of *Tetracyclus braunii*



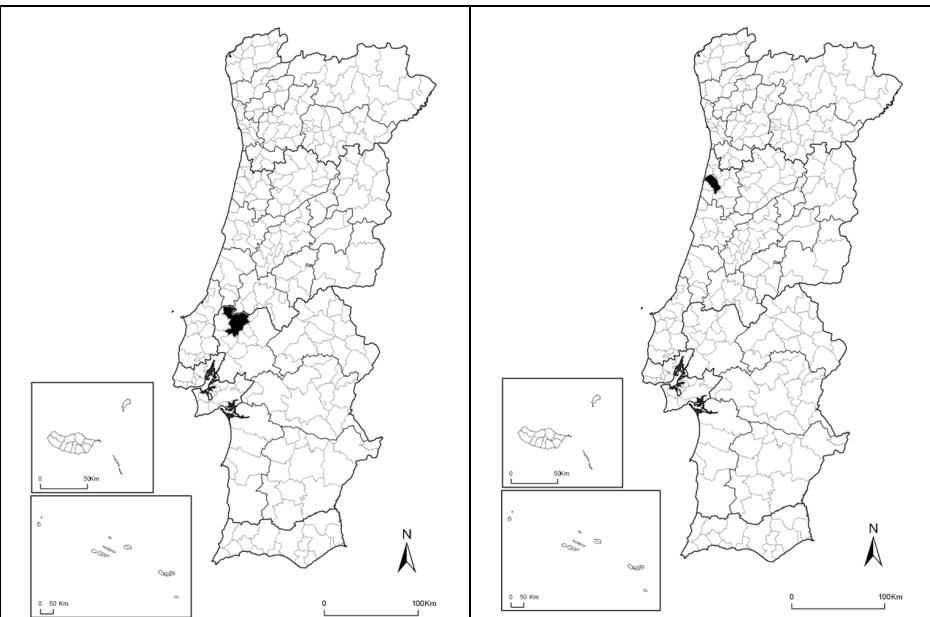


Figure 1278. Distribution map of *Thalassiosira nana*

Figure 1279. Distribution map of *Thalassiosira pseudonana*

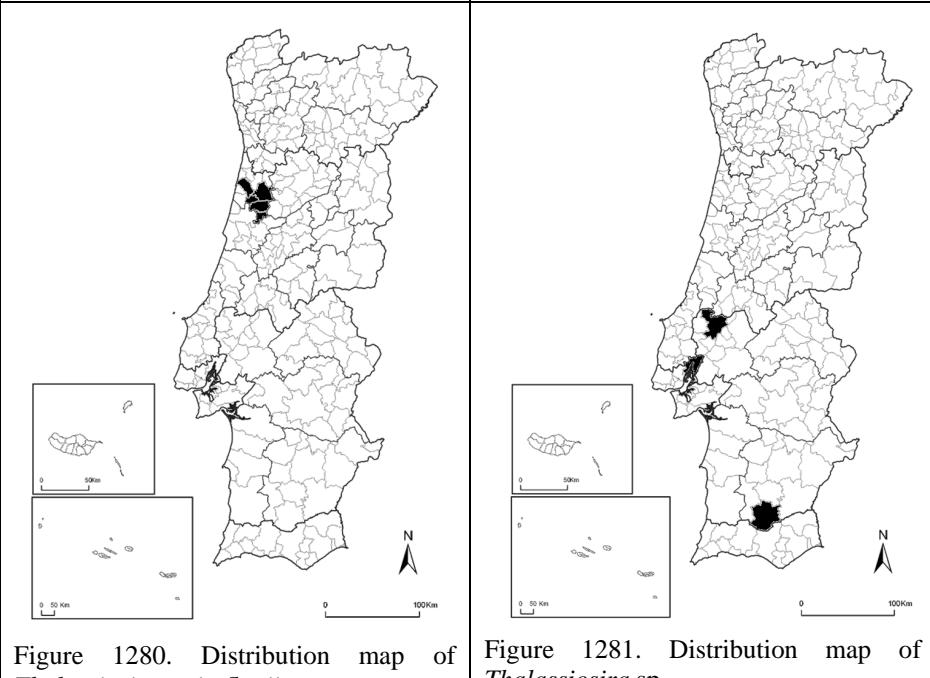
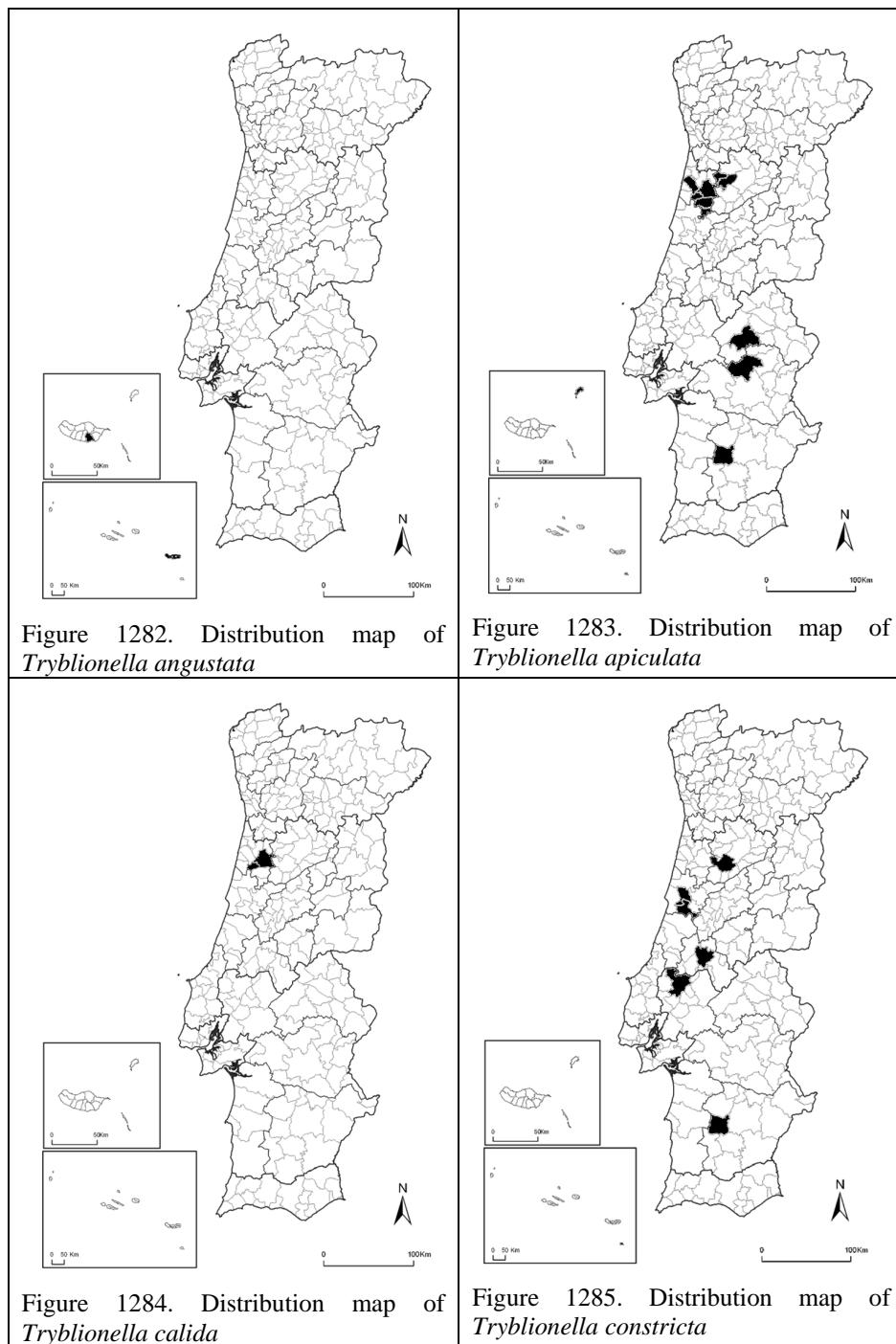
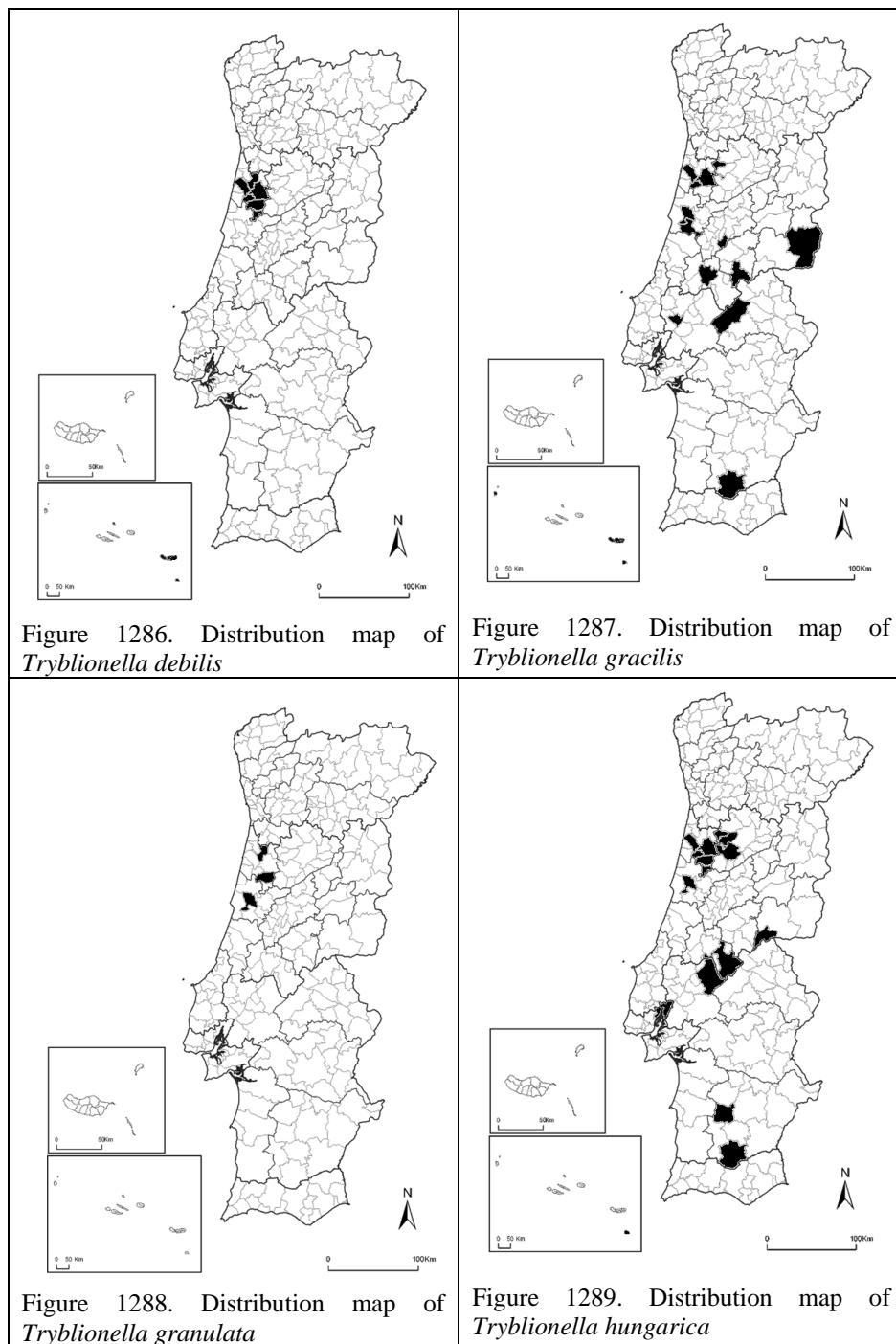
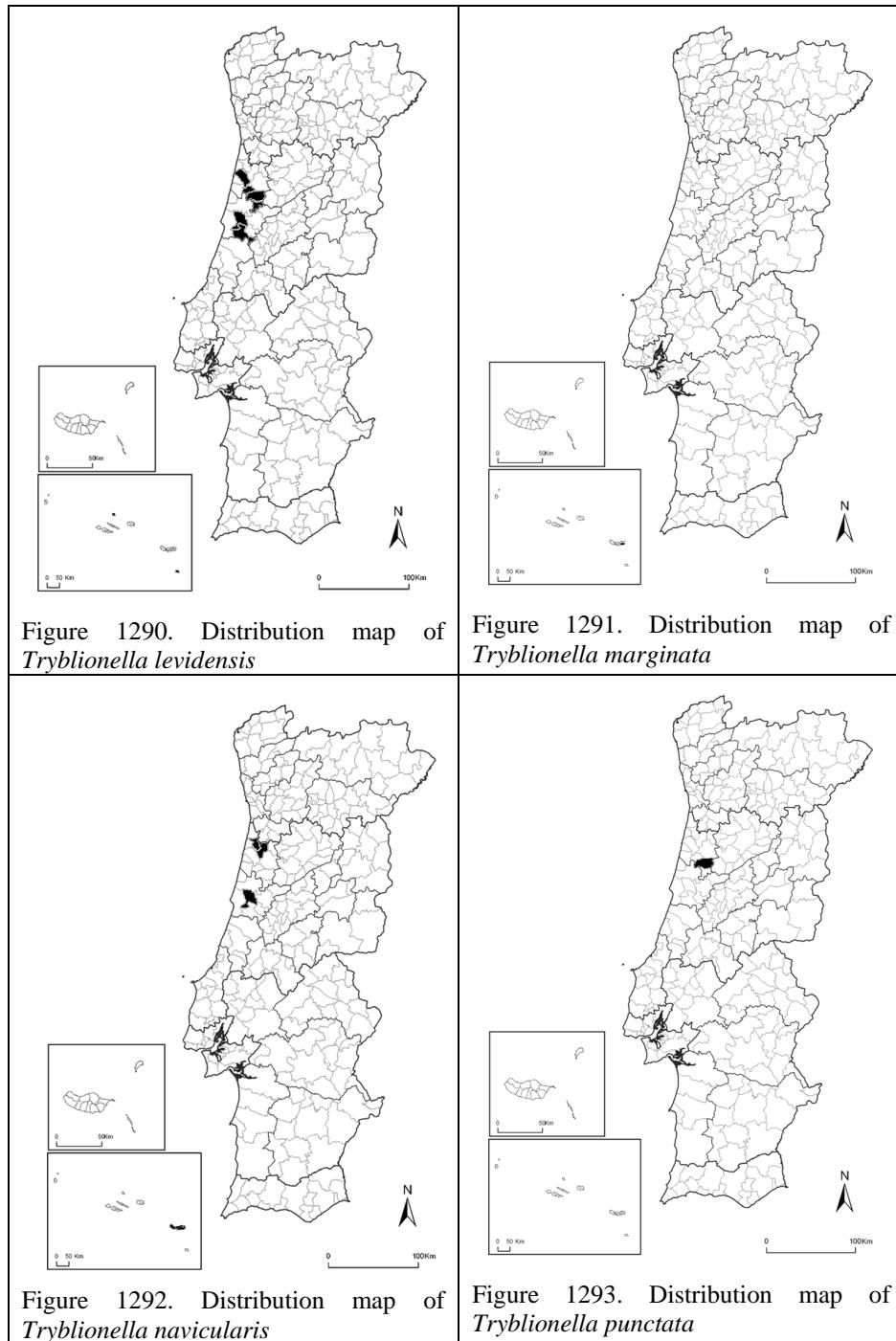


Figure 1280. Distribution map of *Thalassiosira weissflogii*

Figure 1281. Distribution map of *Thalassiosira* sp.







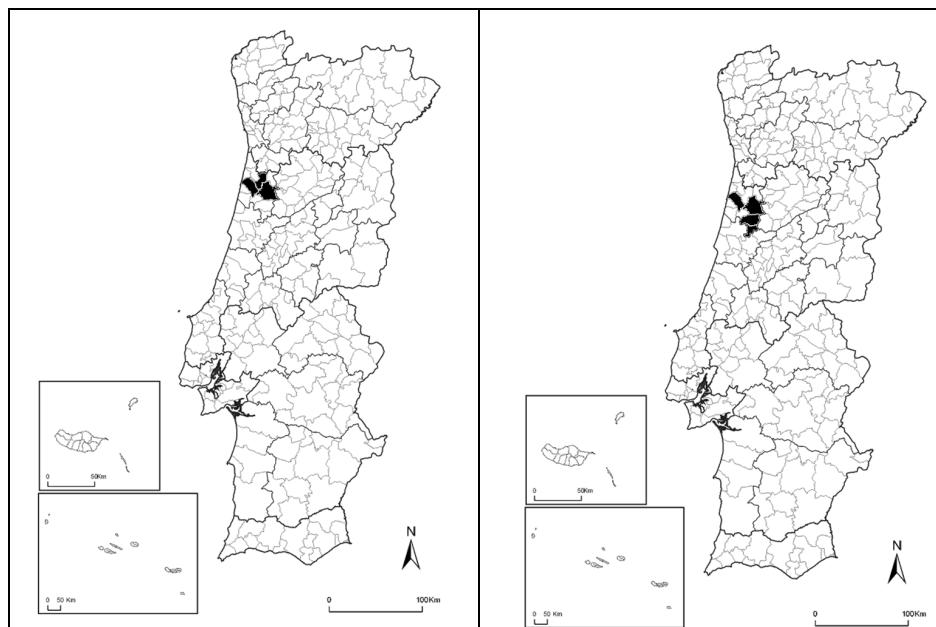


Figure 1294. Distribution map of *Tryblionella scalaris*

Figure 1295. Distribution map of *Tryblionella victoriae*

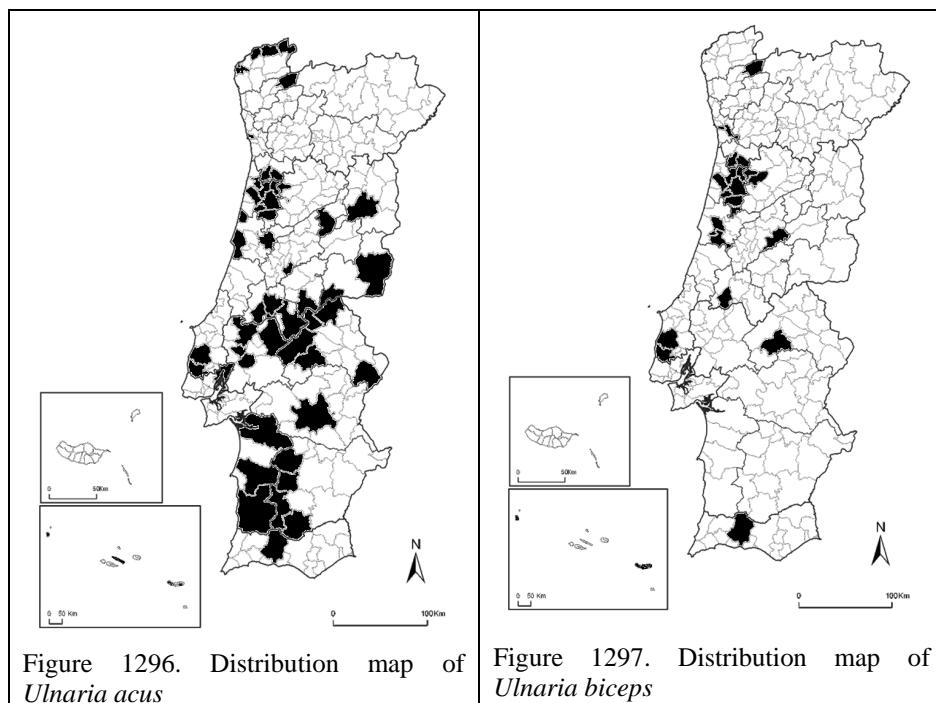
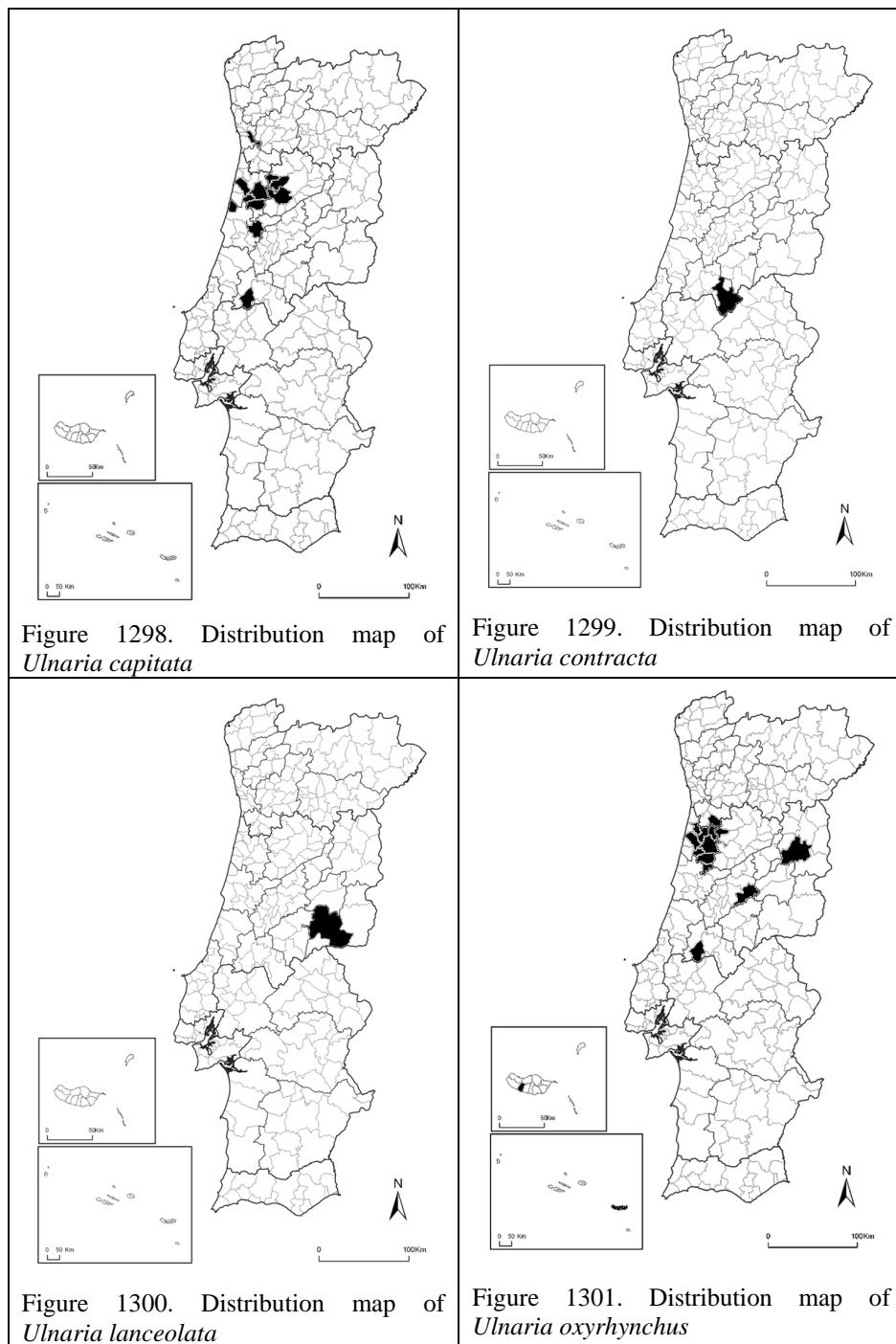


Figure 1296. Distribution map of *Ulnaria acus*

Figure 1297. Distribution map of *Ulnaria biceps*



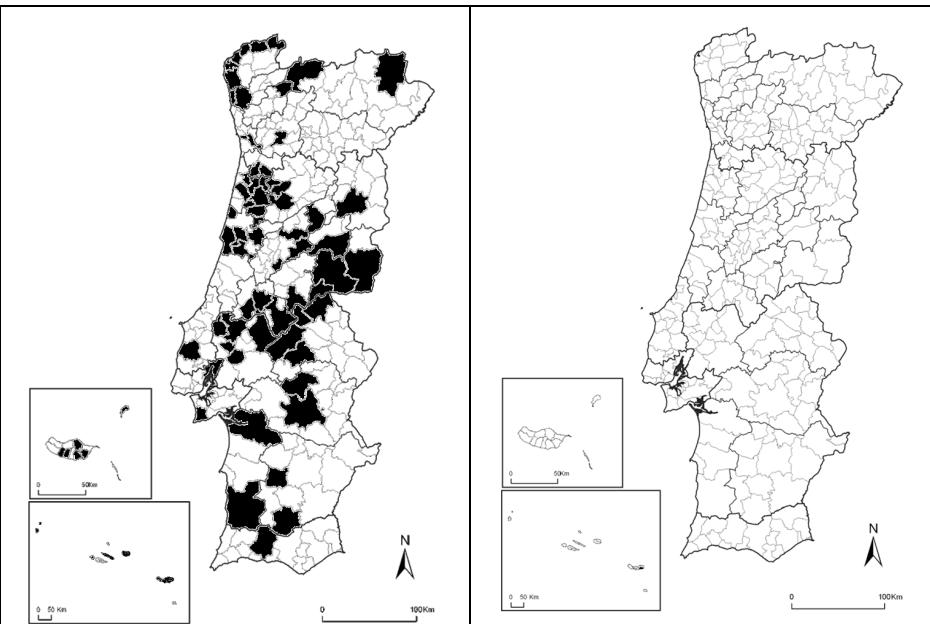


Figure 1302. Distribution map of *Ulnaria ulna*

Figure 1303. Distribution map of *Ulnaria ulna* var. *aequalis*

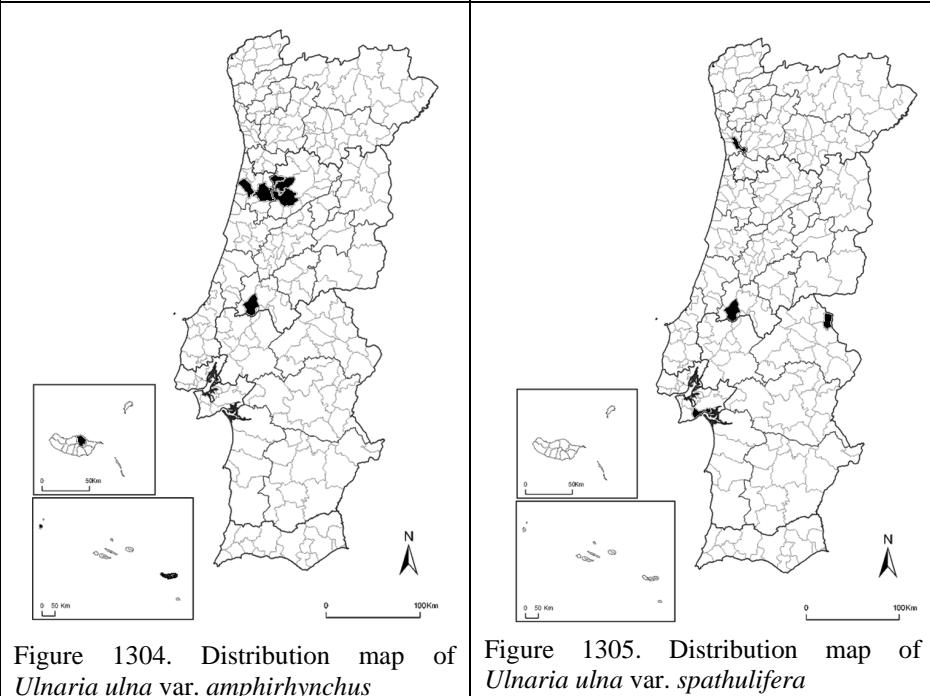


Figure 1304. Distribution map of *Ulnaria ulna* var. *amphirhynchus*

Figure 1305. Distribution map of *Ulnaria ulna* var. *spathulifera*

