

# Chorological additions to the Greek flora : 1. Unpublished records mapped in "Atlas florae europeae", volume 3

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## Chorological additions to the Greek flora. 1. Unpublished records mapped in "Atlas florae europaeae", volume 3

WERNER GREUTER

### Résumé

Greuter, W. (1977). Additions chorologiques à la flore de la Grèce. 1. Données inédites cartographiées dans l'"Atlas florae europaeae", volume 3. *Candollea* 32: 21-49. En anglais et en latin.

Les cartes de distribution publiées par Jalas et Suominen dans le troisième volume de l'"Atlas florae europaeae" (*Salicaceae* à *Balanophoraceae*) sont partiellement fondées, en ce qui concerne la Grèce, sur des matériaux inédits: spécimens d'herbier et notes de terrain. Ces données, à l'exclusion de celles touchant le centre et le sud de l'Egée, sont publiées ici, assorties de notes sur le statut taxonomique des espèces cartographiées, sur leur présence dans la partie grecque des aires placées à cheval sur la frontière du pays ainsi que sur les citations qui sont à exclure parce que douteuses ou erronées. Les districts administratifs de la Grèce (eparhies) sont énumérés et cartographiés. Un système de transcription standardisé des noms de lieux grecs est employé.

### Abstract

Greuter, W. (1977). Chorological additions to the Greek flora. 1. Unpublished records mapped in "Atlas florae europaeae", volume 3. *Candollea* 32: 21-49. Text partly in Latin; French abstract.

The Greek sections of the distribution maps published by Jalas and Suominen in the third volume of "Atlas florae europaeae" (*Salicaceae* to *Balanophoraceae*) are based, in part, on unpublished material: herbarium specimens and field notes. The corresponding data – excluding those from the C. and S. Aegean areas – are published here, together with notes on the status and taxonomy of the mapped species, on their known occurrence in the Greek portions of the areas extending beyond the frontier of the country, and on records excluded as doubtful or erroneous. The administrative districts (eparhias) of Greece are listed and mapped. A standardized system of transcription of Greek place names has been applied.

### Introduction

The Greek sections of the maps included in the first two volumes of "Atlas florae europaeae" (Jalas & Suominen 1972, 1973), except for the S. and C. Aegean areas, were essentially based on published records meticulously compiled from a great variety of floristic sources by P. Kritopoulos at Athens. This means that they do not contain a significant amount of unpublished information and that, at least in principle, one can check each dot to the source if one disposes of an extensive knowledge of the relevant literature and of Greek geography. I am informed, furthermore, that Kritopoulos intends to publish his full set of compiled records – certainly a meritorious undertaking if one considers that many relevant texts are written in modern Greek and are included in pamphlets or newspapers almost inaccessible to the average student of botany.

For volume 3 (Jalas & Suominen 1976) I assumed the task of introducing unpublished records into the Greek map sections. For this purpose I revised the material of the following private and public herbaria:

- ATH: The Goulandris Natural History Museum, Kifisia (general herbarium and herbarium Goulimis);
- G: Conservatoire botanique, Genève (only sporadically consulted);
- Gr: My personal herbarium (presently deposited at G);
- M: Botanische Staatssammlung, München (only sporadically consulted);
- Pav: Herbarium G. Paulidēs (presumably deposited at the Department of Systematic Botany and Plant Geography, Aristotelian University, Thessaloniki);
- Q: Herbarium P. Quézel (presently deposited at the Laboratoire de botanique, Faculté des sciences de Saint-Jérôme, Marseille; *Thesium* only);
- Rech: Herbarium K. H. Rechinger (presently deposited at W);
- W: Naturhistorisches Museum, Wien;
- W-Hal: E. de Halácsy, herbarium graecum (deposited at W).

Furthermore, J. Suominen screened the collections at the Department of Botany, University of Helsinki (H), and B. Aldén, L.-Å. Gustavsson, J. Persson, H. Runemark and S. Snogerup submitted records from their field notes and from their own, extensive Greek and Aegean collections included – or to be included – in the herbarium of the University Botanical Museum at Lund (LD). Unless otherwise stated, the corresponding specimens have not been checked by me, but were identified by the collectors.

The present paper aims primarily at putting on record the factual bases of the dots introduced as new into the Greek map sections of the third volume of "Atlas florae europaeae". Additionally, it provides an opportunity to list excluded records which were either considered as unreliable or were found to be incorrect upon checking, and to add some comments on problems of status and of taxonomic delimitation encountered during the mapping work. In a few cases, additional records have been included, which result in complements to the published maps.

The following specific limitations and procedures have been applied.

*Geographical coverage*

Greece in its present political boundaries has been considered, with the exception of the following areas excluded for various reasons:

- the E. Aegean Islands and Kastellorizo (not covered by “Atlas florae europaeae”);
- the Central Aegean region (Kikladhes), which will be dealt with separately by Runemark;
- Kriti and Karpathos, which form a separate territory (Cr) in “Flora europaea” and on which a special treatment is in preparation.

*Grid system*

The symbols heading the records correspond to the meshes adopted as mapping units in the “Atlas florae europaeae” (Jalas & Suominen 1976: 8), based on the UTM grid but significantly modified on account of the complex Greek geography. This modified grid is reproduced in Map 1. Note that (except for Kriti and Karpathos) the modifications of the basic, orthogonal grid were approved subsequent to the publication of the first two volumes of “Atlas florae europaeae”.

*Border meshes of the mapping grid*

The following meshes of the mapping grid are Greek only in part, extending also to neighbouring countries (Albania, Yugoslavia, Bulgaria, Turkey): CK4, DJ1, DK2, DK4, DK3, EK1, DL4, EL2, EL4, EL3, FL1, FL3, GL1, KF1, KG2, LF1, LF3, MF1, MG2, MG4, MF3 and MF2.

Obviously, it cannot be seen from the corresponding dots on the distribution maps whether they are based on Greek or non-Greek records, or both. I have therefore indicated, after each species name, those “border dots” which correspond, either totally or in part, to Greek records (“Adest in parte graeca quadrilaterum...” = “is present in the Greek portion of the squares...”).

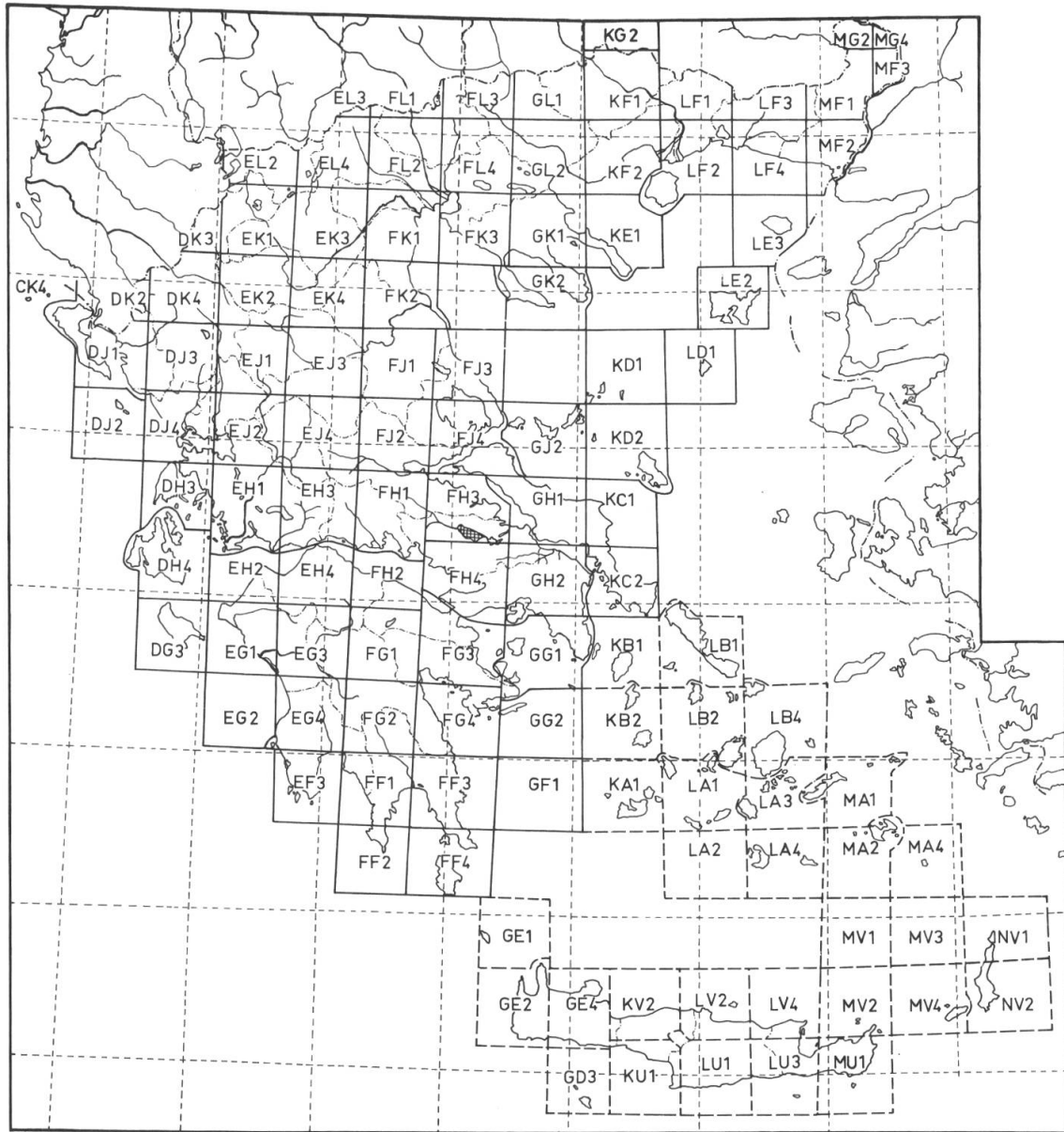
*Administrative districts*

Ahead of each specimen citation, a three-digit figure in parentheses indicates the administrative district (eparhia) to which the collecting locality belongs. The first digit of the figure stands for the region, the second for the administrative province (nomos), the third for the district. If the latter is an 0, the name of the district coincides with that of the corresponding province. The exact location of each district can be seen on Map 2; the district and province names are listed below.

*1 Thraki (Thrace)*

*11 Evros:* 111 Orestias, 112 Dhidhimotiho, 113 Soufli, 114 Alexandhroupolis, 115 Samothraki. – *12 Rodhopi:* 121 Sapes, 122 Komotini. – *13 Xanthi.*





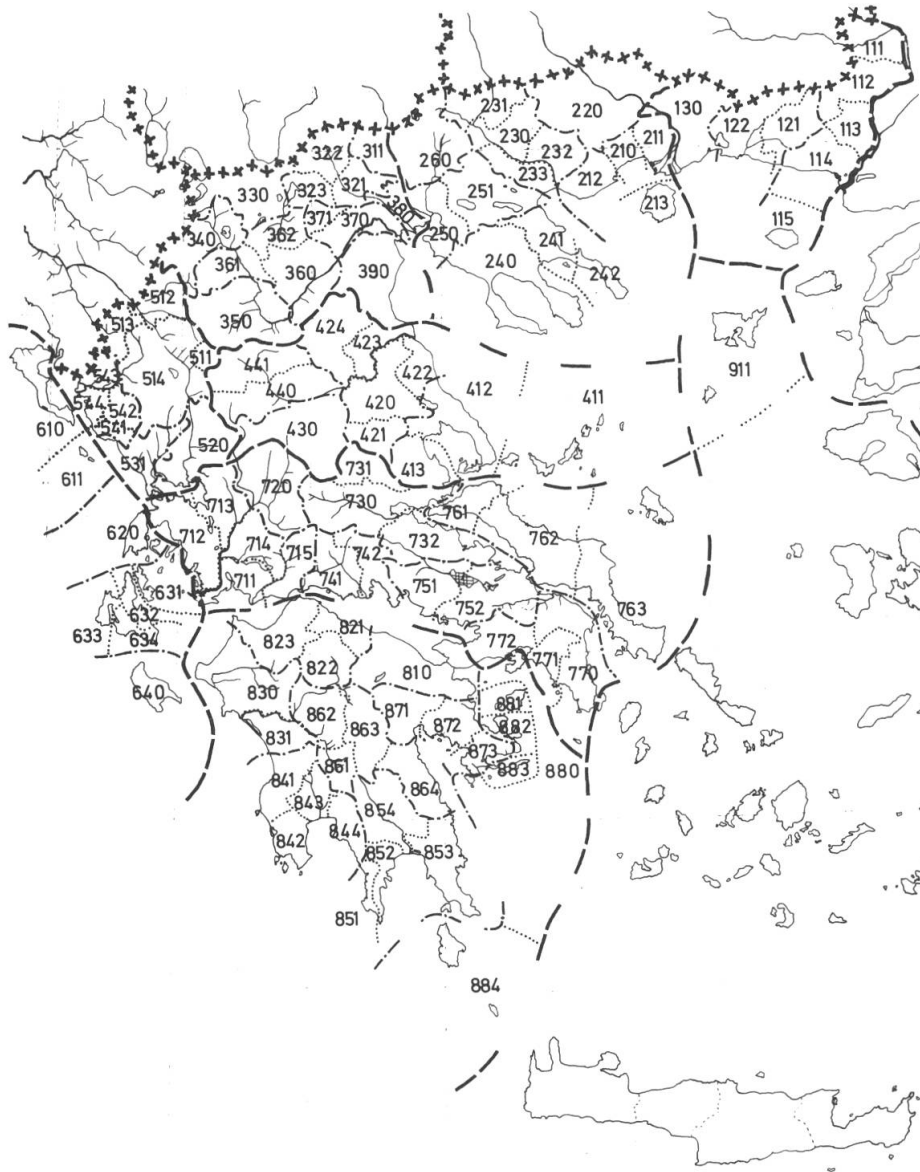
Map 1. – The modified UTM grid in Greece adopted for mapping purposes by “Atlas florae europaeae”, with the symbols of the individual meshes as cited in this paper.

## 2 *Anatoliki Makedhonia* (Macedonia E. of the Axios river)

21 *Kavala*: 211 Nestos, 212 Pangeo, 213 Thasos. – 22 *Dhrama*. – 23 *Serres*: 231 Sindiki, 232 Fillis, 233 Visaltia. – 24 *Halkidhiki*: 241 Arnea, 242 Ajion Oros. – 25 *Thessaloniki* (pars): 251 Langadha. – 26 *Kilkis* (pars).

## 3 *Dhitiki Makedhonia* (Macedonia W. of the Axios river)

31 *Kilkis* (pars): 311 Peonia. – 32 *Pella*: 321 Jiannitsa, 322 Almopia, 323 Edhessa. – 33 *Florina*. – 34 *Kastoria*. – 35 *Grevena*. – 36 *Kozani*: 361 Voios, 362 Eordhea. – 37 *Imathia*: 371 Naousa. – 38 *Thessaloniki* (pars). – 39 *Pieria*.



Map 2. – The administrative provinces and districts of Greece (see explanations in the text).

#### 4 *Thessalia* (Thessaly)

**41 Magnisia:** 411 Skopelos, 412 Volos, 413 Almiros. – **42 Larisa:** 421 Farsala, 422 Aja, 423 Tirnavos, 424 Elassona. – **43 Kardhitsa.** – **44 Trikala:** 441 Kalam-baka.

#### 5 *Ipiros* (Epirus)

**51 Ioannina:** 511 Metsovo, 512 Konitsa, 513 Pogoni, 514 Dhodhoni. – **52 Arta.** – **53 Preveza:** 531 Nikopolis-Parga. – **54 Thesprotia:** 541 Margariti, 542 Souli, 543 Filiates, 544 Thiamis.

## 6 *Ionii nisi* (Ionian Islands)

61 *Kerkira*: 611 Paxi. — 62 *Lefkas*. — 63 *Kefallinia*: 631 Ithaki, 632 Sami, 633 Pali, 634 Kranea. — 64 *Zakinthos*.

## 7 *Stereia Ellas* (Central Greece)

71 *Etolia-Akarnania*: 711 Mesolongi, 712 Vonitsa-Xiromeros, 713 Valtos, 714 Trihoni, 715 Nafpaktos. — 72 *Evritania*. — 73 *Fthiotis*: 731 Dhomokos, 732 Lokris. — 74 *Fokis*: 741 Dhoris, 742 Parnassis. — 75 *Viotia*: 751 Levadhia, 752 Thive. — 76 *Evvia*: 761 Istiea, 762 Halkis, 763 Karistia. — 77 *Attiki*: 771 Protevoussa, 772 Megaris.

## 8 *Peloponnisos* (Peloponnesus)

81 *Korinthia*. — 82 *Ahaia*: 821 Ejialia, 822 Kalavrita, 823 Patra. — 83 *Ilis*: 831 Olimbia. — 84 *Messinia*: 841 Trifilia, 842 Pilia, 843 Messini, 844 Kalamata. — 85 *Lakonia*: 851 Itilos, 852 Jithio, 853 Epidhavros Limiras, 854 Lakedhemona. — 86 *Arkadhia*: 861 Megalopolis, 862 Gortinia, 863 Mandinia, 864 Kinouria. — 87 *Argolis*: 871 Argos, 872 Nafplia, 873 Ermionis. — 88 *Pireas*: 881 Ejina, 882 Trizinia, 883 Idhra, 884 Kithira.

## 9 *Nisi tou Ejeou* (Aegean Islands)

91 *Lesvos* (pars): 911 Limnos.

## *Specimen citations*

Only records from “new” squares, for which no published data were known to me, have been included. In deciding whether a square was “new” or not, I relied heavily on the preliminary maps prepared by Kritopoulos on the base of published information; in addition, several papers apparently not seen by Kritopoulos have been consulted. It cannot be denied, however, that in some cases published records may have been overlooked and that, consequently, some of the data included hereafter may be redundant.

Not more than two citations were listed for a single square, although several were sometimes available.

The label texts have not been reproduced in their original form, but were translated into Latin and edited (even, if necessary for the sake of clarity, completed). A limited number of easily understood standard abbreviations have been used, viz.:

alt.	= altitudo (height)	m.	= mons (mount, mountain)
bor.	= borealis (northern)	mer.	= meridionalis (southern)
c.	= circa (around), circiter (about)	occ.	= occidentalis (western)
centr.	= centralis (central)	opp.	= oppidum (small town)
fl.	= flumen, fluvius (river)	or.	= orientalis (eastern)
ins.	= insula (island)	pr.	= prope (near)
lat.	= latus (side)	vs.	= versus (toward)
l.d.	= locus dictus (place named)		

The following abbreviations for collectors' names are used:

<i>A.</i>	= B. Aldén, Lund	<i>H.</i>	= P. Haristos, Thessalonikē
<i>B.</i>	= K. Bauer, Wien	<i>Ph.</i>	= D. Foitos (Phitos), Patrai
<i>G.</i>	= K. Goulimēs, Athenai (†)	<i>R.</i>	= K. H. Rechinger, Wien
<i>Gr.</i>	= W. Greuter, Genève	<i>Sp.</i>	= F. Spitzenberger, Wien
<i>Gust.</i>	= L.-Å. Gustavsson, Lund	<i>St.</i>	= E. Stamatiadou, Kifisia

### *Geographical names*

Place names have been transformed, if needed, to their modern (popular) Greek equivalents. If the original designation on the label differs significantly, it has been added parenthetically. Toponyms which could not be located on any map are cited between quotation marks.

Transcription of Greek names to Latin alphabet is controversial and varies from one country to another. In order to achieve uniformity, a special system of transcription has been adopted here (and elsewhere in my more recent publications), which constitutes a compromise between English, French and German habits, influenced by the ISO norms of transliteration. (Note that names of persons and literature citations have not been transcribed, but transliterated in accordance with the ISO system.) The phonetic system of transcription used here differs from the ISO transliteration in the following points:

$\alpha$	= e	$\gamma\chi$	= nh	$\nu\tau$	= nd or d <sup>2</sup>
$\beta$	= v	$\delta$	= dh	$\omicron$	= i
$\gamma$	= g or j <sup>1</sup>	$\epsilon$	= i	$\upsilon$	= i or v <sup>3</sup> or f <sup>4</sup>
$\gamma\gamma$	= ng	$\eta$	= i	$\omega$	= o
$\gamma\kappa$	= ng	$\mu\pi$	= mb or b <sup>2</sup>		

### *Acknowledgments*

This paper is the result of co-operation from a considerable number of friends and fellow botanists and would not have materialized without them. My sincere thanks are due to the owners and keepers of the consulted herbaria, and to those colleagues who put unpublished data at my disposal. I am grateful to Prof. Kritopoulos for liberally granting me access to his literature file, and to Dr. Suominen for his kind and efficient collaboration. Most especially, I want to thank Prof. Rechinger for his generous hospitality at Vienna and for his valuable advice in many taxonomic and distributional questions, notably for his expert revision of a considerable part of the *Salix* material.

<sup>1</sup> Before the vowels or diphthongs  $\alpha$ ,  $\epsilon$ ,  $\eta$ ,  $\iota$ ,  $\omicron$ ,  $\upsilon$ .

<sup>2</sup> At the beginning of a word.

<sup>3</sup> After a vowel and before a vowel or mild consonant.

<sup>4</sup> After a vowel and before a harsh consonant.

## Pars systematica

*Salix pentandra* L.

Indicatur a Laurentiadēs (1956) ad ripas pr. Kavala (KF2); specimina graeca non vidi, indicatio fide cl. Rechinger summopere dubia.

*Salix fragilis* L.

Indicatur ab auctoribus in Peloponneso (unde specimina non vidi), verisimiliter propter confusionem cum specie sequenti ejusque hybridis (vide specimen Zahnii infra sub EG4 citatum). Plantae sub nomine *S. australioris* citatae similiter hybridas cultas vel subspontaneas *S. fragilis* et *albae* sistunt (fide K. H. Rechinger).

Adest in parte graecā quadrilaterum EK1, EL2, EL4, GL1.

**GK1** (240) ad N. pagi Nikita, 21.7.1970, *Paulidēs* (Pav).

*Salix alba* L.

Saepe culta et hinc inde inquilina; in insulis meridionalibus maris aegaei, unde refertur ab auctoribus, vix nevis spontanea.

Adest in parte graecā quadrilaterum DJ1, DK3, DK4, EK1, EL2, EL4, FL1, FL3, GL1, KF1, LF1, LF3, MF1, MF2, MF3, MG2.

**DK3** (512) in valle fl. Vourmbianitikos infra pagum Gorgopotamos, alt. 800 m, 16.8.1976, *Gr. 14465* (G, Gr).

**DK4** (514) pr. pagum Parakalamos, alt. 400 m, 21.5.1973, *St. 16997* (ATH); (512) in lat. bor. m. Smolikas supra pagum Ajia Paraskevi (Kerasovo), alt. 1300-1600 m, 9.7.1958, *R. 20825* (W).

**EG4** (831/861) inter opp. Megalopolis et Andhritsena, 1.4.1960, *G. 20664* (ATH); (843/844) inter opp. Kalamata et Messini, 2.11.1898, *Zahn* (W-Hal, pro *S. fragilis*; forma glabrescens fortasse hybrida).

**EK1** (350/361) ad fl. Aliakmon supra pontem viae Grevena-Kozani, alt. 500 m, 18.8.1976, *Gr. 14501* (G, Gr).

**EK2** (511) pr. pagum Votonosi, alt. 800-850 m, 31.5.1971, *St. 12571* (ATH).

**EL2** (330) ad N.W. opp. Florina, alt. 800-820 m, 24.6.1972, *St. 15957* (ATH).

**FL3** (231) pr. pagum Poroia, 29.4.-3.5.1955, *G. 20663* (ATH).

**FL4** (250) ad ripas fl. Gallikos pr. pontem pagi Filadhelfia, 20.5.1971, *H. 128* (ATH).

**KC1** (763) ad vicum Platana pr. pagum Kato Potamia, 25.8.1969, *R. 38101* (Rech).

**LF3** (122) Pandhrosos, ad fl., alt. 135-140 m, 9.6.1970, *St. 9889* (ATH, W).

**MF1** (112/113) inter pagos Mandhra et Soufli, in valle fl. Evros, alt. c. 100 m, 25.4.1961, *R. 22156* (Rech).

**MF2** (113) ad pontem trans fl. "Tahtadzik" ad S. pagi Pessani, alt. 150 m, 20.5.1972, *St. 15281* (ATH); (114) a pago Avas 4 km S. vs., c. castrum dirutum, 6.1965, *B. & Sp. 1351, 1353* (W).

**MF3** (112) ab opp. Dhidhimotiho 2.5 km S. vs., 6.1965, *B. & Sp.* 1639 (W).  
**MG2** (111) ad N.W. pagi Keramos pr. fl. Ardha, alt. 50 m, 22.5.1972, *St.* 15342 (ATH).

***Salix triandra* L.**

Indicationes veterae e Peloponneso (Sibthorp, Chaubard) dubiae ulterius firmandae (fide cl. Rechinger).

Adest in parte graecâ quadrilaterum DK4, EK1, GL1, MF3.

**DK4** (513) in lat. bor. m. Smolikas supra pagum Ajia Paraskevi (Kerasovo), alt. 1300-1600 m, 9.7.1958, *R.* 20826 (W).

**FK1** (380) ad ostia fl. Axios pr. pagum Kimina, 17.6.1971, *H.* 397 (ATH).

**LF2** (122) Limni Vistonis, ad ripas, a pago Salpi c. 4 km W. vs., 6.1965, *B. & Sp.* 1958, 1959 (W).

**MF3** (112) ab opp. Dhidhimotiho 2.5 km S. vs., 6.1965, *B. & Sp.* 1637 (W);  
 (112) pr. pagum Koufovouni, 6.1965, *B. & Sp.* 1518 (W).

***Salix retusa* L.**

Indicatur a Zaganiarēs (1940), cui nulla fides habenda, e m. Vitsi seu Vernon (FL2). Specimen deest, species Graeciae dubia civis manet.

***Salix cinerea* L.**

Adest in parte graecâ quadrilaterum EL4, GL1.

***Salix aurita* L.**

Indicatur in penins. Halkidhiki a Grisebach (sed Rechinger 1943 jam dubitat) et ibidem in m. Holomon (GK1) a Zaganiarēs. Graeciae summo opere dubia civis.

***Salix caprea* L.**

Indicationes veterae e Peloponneso (Sibthorp, Chaubard, Friedrichsthal) dubiae ulterius firmandae.

Adest in parte graecâ quadrilaterum GL1, KF1.

**FK1** (390) montes Pieria, in silvâ "Karajianni" supra pagum Skotina, 22.-23.6.1961, *G.* 20671 (ATH).

***Salix viminalis* L.**

In Graecia bor. culta sed vix nevis spontanea. Indicatur a Zaganiarēs (1940) "in humidis pr. Petritsi" (FL3).

**Salix elaeagnos** Scop.

Adest in parte graecâ quadrilaterum DK3, DK4, EK1.

**DK3** (512) in valle fl. Vourmbianitikos infra pagum Plikati, alt. 1050 m, 13.8.1976, *Gr. 14304* (G, Gr).

**Addendum ad Atlantem**

**EK1** (350/361) ad fl. Aliakmon supra pontem viae Grevena-Kozani, alt. 500 m, 18.8.1976, *Gr. 14503* (G, Gr).

**Salix purpurea** L.

Specimina graeca non vidi; indicationes auctorum quot investigavi erroneae (propter confusionem cum specie sequenti), aliae plurimae dubiae, unicam tandem fide dignam habeo: e m. Boz Dag seu Falakro (GL1; Kitanov 1943).

**Salix amplexicaulis** Bory

Adest in parte graecâ quadrilaterum DK3, DK4, EK1, EL2, FL1, GL1, KF1, MF2.

**DK3** (512) in valle fl. Vourmbianitikos, infra pagum Gorgopotamos, alt. 800 m, 16.8.1976, *Gr. 14466* (G, Gr).

**DK4** (513) in lat. bor. m. Smolikas supra pagum Ajia Paraskevi (Kerasovo), alt. 1300-1600 m, 9.7.1958, *R. 20827* (W).

**EJ1** (441) pr. pagum Stefani, 10.8.1959, *G. 20678* (ATH).

**EK2** (511) pr. pagum Votonosi, alt. 800-850 m, 31.5.1971, *St. 12572* (ATH).

**EL2** (330) ad S. pagi Plati, alt. 880 m, 2.8.1973, *Gr. 11487* (ATH, G, Gr); (330) in lat. or. m. "Pandeleimon" pr. opp. Florina, alt. 650 m, 12.10.1975, *Merxmüller & Podlech 31188* (M).

**FJ3** (412) in m. Pilio, 15.7.1956, *Pinatsēs* (W).

**GK2** (240) penins. Sithonia, l.d. Rema Platanitsiou, 29.6.1972, *Paulidēs* (Pav).

**KC1** (763) ad vicum Platana pr. pagum Kato Potamia, 25.8.1969, *R. 38119* (Rech).

**KF1** (220) pr. pagum Sidhironeri, 5.7.1956, *G. 20665* (ATH).

**MF2** (114) a pago Avas 4 km S. vs., c. castrum dirutum, 6.1965, *B. & Sp. 1354* (W).

**Addendum ad Atlantem**

**EK1** (350/361) ad fl. Aliakmon supra pontem viae Grevena-Kozani, alt. 500 m, 18.8.1976, *Gr. 14502* (G, Gr).

**Populus alba** L.

Frequenter culta, in insulis et verisimiliter in Peloponneso haud spontanea, alibi indigena habetur.

Adest in parte graecâ quadrilaterum DK4, EK1, FL3, KF1, LF1.



- EG1** (830) ad fl. Alfios pr. opp. Pírgos, *Panetsos obs.* (fide Kritopoulos; *status dubius*).
- EH1** (711/714) ad fl. Aheloos, ab opp. Agrinio usque ad ostia, *Panetsos obs.* (fide Kritopoulos).
- EJ1** (441) in valle Tria Potamia inter pagos Kastanea et Stefani, 20.-21.7.1959, *G. 20654* (ATH).
- EJ4/FJ2** (730) ad fl. Sperhios a pago Makrakomi usque ad pagum Amouri, *Panetsos obs.* (fide Kritopoulos).
- EK3** (371) in m. Vermio inter l.d. "Vrahi", "Krakora" et "Karkatsouli", 7.-12.8.1954, *G. 20651* (ATH).
- FJ3** (412) ad opp. Volos, 29.4.1896, *Sintenis* (W-Hal).
- GL2** (230/232/233) ad fl. Strimon, *Panetsos obs.* (fide Kritopoulos).

### **Populus tremula L.**

Adest in parte graecâ quadrilaterum EL4, GL1, KF1.

- EJ4** (720) in silvâ pagi Fourná, l.d. "Varkos", *Panetsos obs.* (fide Kritopoulos).
- EK2** (511) pr. pagum Metsovo, *Panetsos obs.* (fide Kritopoulos).
- EL4** (330) in m. Kaimaktsalan infra ditone Paleohori, 5.-11.8.1951, *G. 20657* (ATH); (322) in silvâ pagi Pefkoto, l.d. "Hasapitsa", alt. 1450 m, *Panetsos obs.* (fide Kritopoulos).
- FJ3** (412) in m. Pilio c. pagum Hania, *Panetsos obs.* (fide Kritopoulos).

### **Populus nigra L.**

Fide cl. Panetsos (in verbis ad Kritopoulos) charta in Atlante impressa aliquanto emendanda: species in FK2 et KF2 certe indigena (in Atlante status dubius indicatur), in DH4, EH1, FJ2, FK3, GH2, GK1 et GK2 contra tantum culta ideo omnino delenda (statu dubio datur in Atlante).

Adest in parte graecâ quadrilaterum DK3, DK4, EK1, EL2, FL3, GL1, LF1.

- DK3** (512) in valle fl. Vourmbianitikos, infra pagum Gorgopotamos, alt. 800 m, 16.8.1976, *Gr. 14463* (G, Gr).

### **Juglans regia L.**

Frequenter ab antiquitate culta, sed in montibus Graeciae bor. et centr. ut videtur hinc inde spontanea. Status disputatur in m. Olimbos et penins. Halkidhiki; in ins. Thasos tantum culta, punctum LF2 in Atlante igitur delendum!

Adest in parte graecâ quadrilaterum DK4, EL2 (anne spontanea?), FL3, GL1, KF1, LF1, LF3.

- DK4** (514) in lat. mer. m. Timfi supra pagum Skamnelli, alt. c. 1200 m, 17.7.1958, *R. 21444* (W; spontanea ex ipso collectore).

### **Betula pendula Roth**

Adest in parte graecâ quadrilaterum EL4, GL1, KF1, LF1.



***Alnus glutinosa* (L.) Gaertner**

Indicatur in Peloponneso a Sibthorp et recentius a Zaganiarēs (1934) pr. Passavas (FF1), sed specimina desunt et loca haec dubia manent.

Adest in parte graecâ quadrilaterum DK3, EK1, EL2, EL4, FL3, KF1, LF1, LF3, MF1, MF2.

**DK3** (512) inter pagos Gorgopotamos et Vourmbiani, alt. 900 m, 16.8.1976, *Gr. 14455* (G, Gr).

**EK2** (350) pr. pagum Kranea, alt. 1000 m, 9.7.1971, *Gr. 9289* (ATH, Gr); (512) ad N.W. pagi Dhistrato, alt. 900 m, 23.5.1973, *St. 17215* (ATH).

**FK1** (380) ad ostia fl. Axios pr. pagum Kimina, 17.6.1971, *H. 390* (ATH).

**MF2** (114) in faucibus a pago Avas 1-3 km N.N.W. vs., 6.1965, *B. & Sp. 1987* (W); (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 1921* (W).

***Addendum ad Atlantem***

**FL2** (322) supra pagum derelictum Pefkoto, alt. 750-800 m, 29.7.1976, *St. 19574* (ATH).

***Alnus incana* (L.) Moench**

Indicatur a Laurentiadēs (1956) pr. Argos Orestikon et Siatista (EK1), sed specimina non vidi. Graeciae dubia civis.

***Carpinus betulus* L.**

In Peloponneso, ubi a Chaubard et Fraas indicatur, a recentioribus non lecta. Adest in parte graecâ quadrilaterum DK4, EL2, GL1, KF1, MF2.

**FK1** (390) montes Pieria, pr. pagum Skotina, alt. 650-700 m, 9.8.1971, *St. 13810* (ATH).

**MF2** (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 1926* (W).

***Carpinus orientalis* Miller**

Adest in parte graecâ quadrilaterum DJ1, DK3, DK4, EL2, EL4, GL1, KF1, LF1, LF3, MF1, MF2.

**DJ1** (610) pr. pagum Varipatadhes, l.d. "Ajos Andhreas", 7.1912, *Tountas* (W-Hal); (544) inter opp. Igoumenitsa et pagum Nea Selefkia, alt. 40-50 m, 30.5.1971, *St. 12504* (ATH).

**DK3** (512) in valle fl. Vourmbianitikos contra pagum Plikati, alt. 1100 m, 13.8.1976, *Gr. 14314* (G, Gr).

**EK2** (350) montes Hasia, inter pagum Anixis (Gria) et opp. Grevena, alt. 500-800 m, 10.5.1961, *R. 23049* (Rech).

**EL4** (322/330) in m. Kaimaktsalan, l.d. Arkoudholakkos, 17.-23.6.1956, *G. 390* (ATH).

**FJ3** (412) in m. Pilio, 18.6.1934, *Pinatsēs* (W).

**FL4** (230/251) inter pagum Lahanas et opp. Serres, alt. c. 600 m, 6.6.1955, *R. 15463* (W).

### **Ostrya carpinifolia** Scop.

Adest in parte graecâ quadrilaterum DK3, DK4, DL4, EL2, EL4, GL1, KF1, LF1, LF3.

**DK3** (512) in valle fl. Vourmbianitikos contra pagum Plikati, alt. 1100 m, 13.8.1976, *Gr. 14305* (G, Gr).

**EJ4** (720) inter opp. Karpenisi et pagum Stenoma, ad E. jugi Kokkino Dhiasele, 11.-15.6.1952, *G. 415* (ATH).

**EK2** (350) ad W. pagi Kranea, in lat. laevo vallis rivi Kira Kali (Paliohori), alt. 1350 m, 16.8.1974, *Charpin 11177, Gr. 12349 & al.* (G, Gr).

**EL2** (330) inter vicum Koula et pagum Psaradhes, 1.-5.8.1957, *G. 406* (ATH).

### **Corylus avellana** L.

In Cretâ insulâ vix spontanea.

Adest in parte graecâ quadrilaterum DK3, DK4, EK1, EL2, EL4, GL1, KF1, LF1, LF3, MF1, MF2.

**DK3** (512) inter pagos Gorgopotamos et Vourmbiani, alt. 900 m, 16.8.1976, *Gr. 14456* (G, Gr).

**EL2** (330/340) in m. Vitsi (Vernon), alt. 1300-1500 m, 9.-11.9.1950, *G. 398* (ATH).

**EL4** (330) in m. Kaimaktsalan infra ditionem Paleohori, 5.-11.8.1951, *G. 399* (ATH).

**MF2** (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 1862* (W); (114) in faucibus pr. Esimi, 7.1963, *B. & Sp. 222* (W).

### *Addendum ad Atlantem*

**FL2** (322) supra pagum derelictum Pefkoto, alt. 750-800 m, 29.7.1976, *St. 19575* (ATH).

### **Corylus columna** L.

Adest in parte graecâ quadrilaterum DK4, DL4, EL2, EL4.

**DL4** (330) fines Albaniae ad W. pagi Vrondero, l.d. "Vroatseria", alt. 1300-1400 m, 23.6.1972, *St. 15928* (ATH).

### **Corylus maxima** Miller

**EK3** (371) ad N.W. opp. Naousa, l.d. "Stalika", alt. 400-450 m, 28.6.1971, *St. 13196* (ATH).

**Fagus sylvatica L.**

Adest in parte graecâ quadrilaterum DK2, DK3, DK4, EK1, EL2, EL3, EL4, FL1, FL3, GL1, KF1.

**Fagus orientalis Lipsky**

Adest in parte graecâ quadrilaterum EL3, EL4, FL1, FL3, GL1, KF1, LF1, LF3, MF1, MF2.

**Castanea sativa Miller**

In montibus Graeciae bor. et centr. ut videtur spontanea sylvis passim admixta, alibi lucos efformans verisimiliter ab antiquitate culta et inquilina.

Adest in parte graecâ quadrilaterum DJ1 (statu dubio), EL4, GL1, KF1, LF1, EK2 (441) pr. pagum Malakasi, 12.7.1896, *Sintenis 957* (W-Hal).

**Quercus coccifera L.**

Adest in parte graecâ quadrilaterum DJ1, DK4, FL1, FL3, GL1, KF1, LF1, LF3, MF2.

**DJ4** (531) ad "skafidarium" in agro opp. Preveza, 7.1889, *Baldacci* (W-Hal).

**EJ1** (441) in regione inferiore m. "Baba" (Tringia?) pr. pagum Klino (Klinovo), alt. 900-1200 m, 24.7.1885, *Heldreich* (W-Hal).

**EJ3** (441) pr. opp. Kalambaka, 4.5.1896, *Sintenis 120* (W-Hal).

**FG1** loco mihi ignoto, *Persson obs.*

**FG2** (864) c. sanctuarium Ajos Nikolaos ad N. pagi Ajos Petros, alt. 900 m, 15.5.1970, *St. 8767* (ATH); (863) ab opp. Tripolis 10 km S. vs., alt. 800 m, 3.5.1964, *R. 24665* (Rech).

**FG4** loco mihi ignoto, *Persson obs.*

**Quercus ilex L.**

Adest in parte graecâ quadrilaterum DJ1, DK4.

**DJ1** (610) in sylvâ pagi Ajos Mattheos, 23.9.1949, *G. 9740* (ATH); (610) inter pagos Varipatadhes et Pelekas, 16./29.3.1912, *Tountas* (W-Hal).

**DK4** (512/514) in faucibus ad E. pontis trans Voidhomatis fl. viae Ioannina-Konitsa, alt. 450-550 m, 21.5.1973, *St. 17031* (ATH).

**EH1** (711) in faucibus Klisoura inter opp. Mesolongi et Agrinio, 21.5.1878, *Heldreich* (W-Hal).

**EH3** (741) supra l.d. "Aries", a pago Lidhoriki 18 km N.W. vs., 23.-26.10.1952, *G. 9736* (ATH).

**FF4** (853) in promontorio supra pagum Neapolis, 8.6.1958, *R. 20054, 20056* (W).

**FG2** (844) ad km 18 viae ab opp. Kalamata ad opp. Sparti ducentem, 26.-28.10.1950, *G. 9734* (ATH).

**FJ3** (412) in lat. bor. m. Pilio inter pagos Tsangaradha et Milees, alt. c. 500 m, 4.5.1961, *R. 22737* (Rech).

**Quercus trojana** Webb

Adest in parte graecâ quadrilaterum DK4, DL4, EK1, EL2, EL4.

**DL4** (330) fines Albaniae ad W. pagi Vrondero, l.d. "Vroatseria", alt. 1300-1400 m, 23.6.1972, *St. 15931* (ATH).

**Quercus macrolepis** Kotschy

In Graeciâ occ. verisimiliter spontanea, sed ad litora et in insulis Aegaei a tempore remoto culta et forsitan tantum inquilina. A Zaganiarēs (1940) "*Q. aegilops* L." ejusque varietates plane erronee in m. Grammos indicantur.

Adest in parte graecâ quadrilaterum DJ1 et (statu dubio) MF2.

**DJ1** (544) ad portum Igoumenitsa, 14.5.1961, *R. 23391* (Rech).

**FG4** (864) inter pagos Paralia Tirou et Leonidhi, 17.5.1964, *R. 25096* (Rech; *status dubius*).

**LF4** (114) a pago Komaros 1 km N.E. vs., 9.-10.1966, *B. & Sp. 1240* (W; *status dubius*).

**Quercus cerris** L.

Indicatio singula e Cretâ insulâ (vide Rechinger 1943) dubia ulterius firmanda.

Adest in parte graecâ quadrilaterum DJ1, DK3, DK4, DL4, EK1, EL2, EL4, GL1, KF1, LF1, LF3, MF1, MF2.

**DJ3** (542) ad N.E. pagi Polidhroso, secus viam ad opp. Ioannina ducentem, alt. 500 m, 30.5.1971, *St. 12516* (ATH).

**DK3** (512) in valle fl. Vourmbianitikos contra pagum Plikati, alt. 1100 m, 13.8.1976, *Gr. 14320* (G, Gr).

**DK4** (514) ad S.E. pagi Dholiana, alt. 450 m, 21.5.1973, *St. 17009* (ATH); (512) ad km 10 viae ab opp. Konitsa ad pagum Pirsojianni ducentem, alt. 750 m, 13.8.1976, *Gr. 14294* (G, Gr).

**DL4** (330) fines Albaniae ad W. pagi Vrondero, l.d. "Vroatseria", alt. 1300-1400 m, 23.6.1972, *St. 15927* (ATH); (330) ad phylakion pagi Vrondero, alt. 1120 m, 2.8.1976, *Gr. 14222* (G, Gr).

**EK1** (340) inter pagos Nestorio et Pefkos, 5.-11.8.1957, *G. 9714* (ATH).

**MF2** (114) in valle Tsanakale, a pago Esimi 5.5 km S.W. vs., 6.1965, *B. & Sp. 1765, 1768, 1770, 1775, 2050* (W); (114) c. pagum Esimi, 7.1963, *B. & Sp. 193, 238* (W).

**Quercus petraea** (Mattuschka) Liebl., *sensu lato*

Incl. *Q. polycarpa* Schur et *Q. dalechampii* Ten. (sensu O. Schwarz, non sensu Hayek!), quas distinguere nequeo. Chartae graecae "*Q. polycarpae*" et praesertim "*Q. dalechampii*" diffidenter aspiciendae, nam specimina graeca plura sterilia, fertilia autem characteribus inter species haec sic dictae saepius ambiguis.

Adest in parte graecâ quadrilaterum EK1, EL2, GL1, KF1, LF1, LF3, MF1, MF2.

- EK2** (350) ad W. pagi Kranea, in lat. laevo vallis rivi Kira Kali (Paliohori), alt. 1350 m, 16.8.1974, *Charpin 11176, Gr. 12348 & al.* (G, Gr).  
**MF2** (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 1749, 1916, 1917* (W).

### **Quercus robur** L.

Specimina graeca non vidi, sed inquirendum, ane citationes auctorum nonnullorum fide dignorum (*e.g.*, Haussknecht) reverâ hic pertineant. Indicationes nonnullae speciei sequentis e Graeciâ occidentali (DJ1, EH1), consilio cl. P. Fukarek secuto, sub **Q. robori** subsp. **brutiâ** (Ten.) O. Schwarz – novum pro ditione taxon – translatae sunt.

### **Quercus pedunculiflora** C. Koch

Adest in parte graecâ quadrilaterum LF1, MF1. Punctum in FL2, e fonte mihi ignotâ additum, verisimiliter delendum.

- FJ3** (422) ad margines planitiei, pr. pagum Kastri ad ripas bor. lacûs Karla, 5.5.1961, *R. 22845* (Rech).  
**LF2** (122) a pago Salpi 1 km N. vs., 6.1965, *B. & Sp. 1706* (W); (130) a pago Mandhra 1 km S.E. vs., 9.-10.1966, *B. & Sp. 1239* (W).  
**MF1** (113) in collibus a pago Soufli 3 km N. vs., alt. c. 100-150 m, 26.4.1961, *R. 22175* (Rech).

### **Quercus frainetto** Ten.

Adest in parte graecâ quadrilaterum DK3, DK4, DL4, EK1, EL2, EL4, FL3, GL1, KF1, LF1, LF3, MF1, MF2.

- DK4** (512) ad km 10 viae ab opp. Konitsa ad pagum Pirsojianni ducentem, alt. 750 m, 13.8.1976, *Gr. 14293* (G, Gr); (514) pr. pagum Koukkouli, 18.7.1958, *R. 21599* (W).  
**DL4** (330) a pago Vrondero c. 2 km N.E. vs., alt. 1000 m, 2.8.1976, *Gr. 14233* (G, Gr).  
**EJ1** (441) pr. pagum Klino (Klinovo), 6.5.1896, *Sintenis 365* (W-Hal).  
**EJ3** (430) pr. pagum Filakti (Sermeniko), 21.8.1896, *Sintenis 1271* (W-Hal); (430) c. monasterium Koroni, alt. 1050-1100 m, 20./28.6.1885, *Heldreich* (W-Hal).  
**EK2** (350) in collibus ad E. pagi Kranea, alt. 1150 m, 4.8.1973, *Gr. 11561* (ATH, G, Gr); (441) inter pontem infra vicum Mourngani situm et pagum Ajiofillo, 22.5.1957, *G. 9729* (ATH).  
**EL2** (330) in jugo Vigla supra pagum Pisodheri, 11.6.1955, *R. 15772* (W).  
**FK3** (250) in m. Hortiatis (Korfiati) pr. urbem Thessaloniki, 2.7.1956, *R. 17322* (W).  
**KF2** (212) in m. Pangeo supra pagum Akrovouni, alt. 550-700 m, 24.8.1970, *St. 10513* (ATH).  
**LF4** (114) in collibus inter pagos Makri et Sapes, 28.4.1961, *R. 22387* (Rech).

**Quercus pubescens** Willd., *sensu lato*

Incl. *Q. brachyphylla* Kotschy, *Q. infectoria* Olivier et *Q. virgiliana* Ten., quas distinguere nequeo. *Q. virgiliana* fortasse subspecies *Q. pubescentis* habenda, in montosis regionis interioris Graeciae praevalens. Characteres sic dictos *Q. brachyphyllam* sejungentes laevi momento habeo, quia sat instabiles nec aream propriam aegaeam definientes. *Q. infectoria* tandem, seu potius specimina europaea huic speciei adhibita, nil nisi formas xerophilas semisempervirentes *Q. pubescentis* sistunt.

Adest in parte graecâ quadrilaterum DJ1, DK3, DK4, DL4, EK1, EL2, EL4, FL1, FL3, GL1, KF1, LF1, MF1, MF2.

- DJ1** (610) in ascensu ad coenobium Iperajia-Theotokos Paleokastritissis (Paleokastrizza), 3.5.1896, *Baenitz 4320* (W-Hal; *Q. brachyphylla* fide O. Schwarz).
- DJ3** (514) pr. pagum Polidhoro, alt. 700 m, 13.5.1961, *R. 23367* (Rech; *Q. infectoria* fide Awishai).
- DJ4** (531) ad "skafidarium" in agro opp. Preveza, 7.1889, *Baldacci* (W-Hal; *Q. brachyphylla* fide O. Schwarz); (531) pr. coenobium "Ajios Josif" supra pagum Louros, 5.7.1895, *Baldacci 90* (W-Hal; *Q. brachyphylla* fide O. Schwarz).
- DK3** (512) in valle fl. Vourmbianitikos contra pagum Plikati, alt. 1100 m, 13.8.1976, *Gr. 14315* (G, Gr).
- DK4** (512) ad km 10 viae ab opp. Konitsa ad pagum Pirsojianni ducentem, alt. 750 m, 13.8.1976, *Gr. 14292* (G, Gr); (514) in m. Kasidhiaris pr. pagum Mavronoros, l.d. "Profitis Ilias", alt. 900-950 m, 20.5.1973, *St. 16919* (ATH).
- DL4** (330) ad phylakion pagi Vrondero, alt. 1120 m, 2.8.1976, *Gr. 14221* (G, Gr).
- EH1/EH3** (714) pr. pagum Mirtea (Gouritsa) et ad ripas lacuum Lisimahia et Trihonis (parvi et magni lacûs Agrinio), 2.5.1894, *Reiser* (W-Hal; *Q. brachyphylla* fide O. Schwarz).
- FF1** (854) in m. Taijetos pr. pagum Anavriti, 12.7.1902, *Leonis* (W-Hal; *Q. brachyphylla* fide O. Schwarz); (854) pr. pagum Krokees, 7.8.1958, *R. 19998* (W).
- FH1** (751) in regione inferiore m. Parnassos pr. pagum Arahova, l.d. "Pania", 26.8.1856, *Heldreich 375* (W-Hal; *Q. brachyphylla* fide O. Schwarz); (751) eodem loco, 8.1855, *Guicciardi* (W-Hal; *Q. pubescens* "subsp. lanuginosa" fide O. Schwarz).
- FJ1** (421) pr. pagum Farsala, 14.7.1956, *R. 18115* (W); (421) a pago Farsala 10 km E. vs., alt. 200 m, 28.4.1964, *R. 24023, 24024, 24025, 24033, 24034* (Rech).
- FJ3** (412) in regione superiore m. Pilio, alt. c. 800-1500 m, 4.5.1961, *R. 22692* (Rech; *Q. virgiliana* fide Awishai).
- LF4** (114) a pago Komaros 1 km N.E. vs., 9.-10.1966, *B. & Sp. 1217, 1218, 1219* (W).
- MF2** (114) in valle Tsanakale, a pago Esimi 5.5 km S.W. vs., 6.1965, *B. & Sp. 1762, 1763, 1771, 1772, 1776, 1783* (W; *Q. infectoria* fide Awishai); (114) inter pagos Avas et Esimi, alt. 150-200 m, 22.4.1972, *St. 14922* (ATH).

**Ulmus glabra** Hudson

Indicationes Formanekii, a Vandas (1909) non firmatae, dubiae manent: pr. Kalambaka (EJ3) et in m. Othris (FJ2).

Adest in parte graecâ quadrilateris DK4.

**DK4** (514) pr. pagum Vikos, 2.9.1956, *G. 22143* (ATH).

**FK2** (422) in m. Ossa supra pagum Karitsa, alt. 600 m, 5.7.1974, *Raus 2602* (ATH).

**Ulmus minor** Miller, *sensu lato*

Charta Atlantis formae omnes hujus speciei polymorphae conjungit. Specimina graeca duo tantum a me visa *U. minorem* sensu stricto sistunt, quorum unum ex arbore verisimiliter cultâ provenit (a Heldreich c. monasterium Koroni in EJ3 lectum), alterum prope fines Turciae repertum fuit (vide infra sub quadrilatero MF3). Specimina caetera e ditione nostrâ omnia ad *U. minorem* subsp. **proceram** (Salisb.) ( $\equiv$  *U. procera* Salisb., Prodr.: 391. 1796) pertinent, cui verisimiliter *U. canescens* Melville prout varietas adnumeranda.

Adest in parte graecâ quadrilaterum DJ1, DK4, EL4, FL1, FL3, GL1, KF1, LF1, MF3.

**EH1** (711) in faucibus Klisoura inter opp. Mesolongi et Agrinio, 22.-26.11.1953, *G. 22140* (ATH).

**EK2** (441) montes Hasia, ab opp. Kalambaka 20 km N. vs., secus viam ad pagum Anixis (Gria) ducentem, 19.7.1958, *R. 21609* (W).

**FG2** (864) supra pagum Ajios Petros, l.d. "Ajios Konstandinos", alt. 1200 m, 17.5.1970, *St. 8885* (ATH).

**KF2** (210) ad S.W. opp. Kavala, l.d. "Mirmingia Pahi", 23.6.1973, *Jalas 2320* (H).

**MF3** (112) ad N. opp. Dhidhimotiho vs. vicum "Lilikosti", 24.4.1961, *R. 22075* (Rech; subsp. *minor*); (112) pr. pagum Koufovouni, 6.1965, *B. & Sp. 1537* (W; subsp. *procera*).

**Ulmus laevis** Pallas

Graeciae dubia civis, etiamsi indicatur in Euboeâ (GH1) et Laconiâ a Chloros (1884, sub *U. effusâ*), pr. Kastania (FF1) et in m. Atho (KE1) a Zaganiarēs (1934, 1940, sub *U. pedunculatâ*).

**Zelkova abelica** (Lam.) Boiss.

Deleatur punctum in quadrilatero GE2, lapsû quodam insertum.

**Celtis australis** L.

Saepe secus vias umbrae gratiâ culta, in Graecia continentali (nec in insulis!) insuper etiam spontanea.

Adest in parte graecâ quadrilaterum DK4, EK1, KF1, LF1.



**DJ4** (531) in faucibus pr. pagum Klisoura, alt. c. 400 m, 2.5.1961, *R. 23333* (Rech).

**EK1** (340) in penins. opp. Kastoria ad ripas lacûs, alt. 650 m, 20.6.1972, *St. 15647* (ATH).

#### **Celtis tournefortii** Lam.

**GK2** (240) penins. Sithonia, in fauce "Paliomilo" pr. pagum Neos Marmaras, *Paulidēs* (Pav).

#### **Ficus carica** L.

Ab antiquitate culta, sed praeterea praesertim in rupestribus insularum et Graeciae litoralis sine dubio spontanea. Area naturalis speciei summopere incerta.

Adest, statû dubio, in parte graecâ quadrilaterum GL1, KF1.

#### **Humulus lupulus** L.

Adest in parte graecâ quadrilaterum EK1, EL2, EL4, FL3, KF1, MF3.

**EL2** (330) inter vicum Koula et pagum Psaradhes, 1.-5.8.1957, *G. 1806* (ATH).

**EL4** (323) pr. opp. Edhessa, 24.-30.8.1955, *G. 1805* (ATH); (323) inter opp. Edhessa et pagum Agras, 9.-11.9.1950, *G. 1804* (ATH).

**MF3** (112) ab opp. Dhidhimotiho 2 km S. vs., 6.1965, *B. & Sp. 1631* (W).

#### **Addendum ad Atlantem**

**FL2** (311) pr. pagum Goumenissa, l.d. "Porroia", alt. 240 m, 6.8.1971, *H. 993* (ATH).

#### **Urtica dioica** L.

Adest in parte graecâ quadrilaterum DJ1, DK4, EK1, EL2, EL3, EL4, GL1, KF1.

**EH3** (741) in m. Vardhousia, a pago Artotina 6 km E.-E.S.E. vs., alt. 2050-2150 m, 22.7.1973, *Gust. 3194* (LD).

**EJ1** (441) in m. Tringia supra pagum Kastanea, 7.1893, *Hartl* (W-Hal); (441) in m. Kakardhitsa, a pago Athamania 3 km W. vs., alt. c. 1850 m, 25.7.1973, *A. 3755* (LD).

**EJ2** (720) in m. Liakoura, a pago Granitsa 4 km E.N.E. vs., alt. 1400-1500 m, 17.6.1971, *A. 751* (LD).

**EK2** (511) in pago Metsovo, alt. 1337 m, 28.5.1968, *St. 3177* (ATH).

**EL2** (330) ab opp. Florina 9-10 km pagum Pisodheri vs., inter fontem et eikonostasin "Ajios Stilianos", alt. 1200-1300 m, 24.6.1972, *St. 15961* (ATH); (330-340) in m. Vitsi (Vernon), alt. 1500-2000 m, 1.-5.8.1957, *G. 22883* (ATH).

**EL3** (322) in lat. bor.-occ. m. Pinovo (Kožuf), alt. 1500 m, 20.8.1976, vide *Gr. 14642* sub *Cuscutâ europaeâ* (G, Gr).



- FH3** (751) in opp. Levadhia, 17.8.1953, *G. 22876* (ATH).  
**FK1** (380) ad ostia fl. Axios pr. pagum Kimina, 17.6.1971, *H. 437* (ATH).  
**KF2** (212) a pago Dhomatia 2 km W. vs., alt. 120 m, 7.9.1972, *Uotila 20387* (H).

#### **Urtica urens L.**

Adest in parte graecâ quadrilaterum DJ1, DK4, GL1, KF1.

- DK4** (514) in pago Sitaria, alt. 520-530 m, 20.5.1973, *St. 16960* (ATH).  
**KD2** (763) in ins. Skiros, 6.1908, *Tountas 405* (W-Hal, pro *U. membranaceâ*).  
**KF2** (210) in pago Kokkinohoma, alt. 50 m, 6.4.1972, *Kukkonen 5182* (H).

#### **Urtica membranacea Poiret**

Lapsu indicatur a Halácsy (1912) in ins. Skiros (**KD2**: vide sub specie praecedenti). In Aegaeo bor. deest nisi credas infido Zaganiarēs (1940) eam e m. Athos referenti.

Adest in parte graecâ quadrilateris DJ1.

- DH3** (620) in pago Komili, alt. 500 m, 16.4.1970, *St. 8060* (ATH).  
**GG1** (882) in ins. Poros, l.d. "Ajios Nektarios", 17.3.1969, *Androulakēs 4780* (ATH).

#### **Urtica pilulifera L.**

- FH1** (751) pr. sinum Dhistomo ad N.W. l.d. "Aspra Spitia", alt. 50-150 m, 25.3.1972, *St. 14239* (ATH); (730) ad monumentum Thermopile, 2.4.4.1953, *G. 22886* (ATH).  
**FH3** (752) c. lacum Iliki, 20.4.1969, *St. 5468* (ATH).  
**KD2** (763) ins. Skiros, inter l.d. Ahili et Ajios Ioannis, 1.4.1972, *Petamidēs 955* (ATH).

#### **Parietaria officinalis L.**

Loca in Graeciâ mer. et in insulis pro hac specie ab auctoribus variis indicata summopere dubia, verisimiliter confusioni cum formis macrophyllis speciei sequentis adhibenda.

Adest in parte graecâ quadrilaterum DK4, EK1.

- DK4** (514) ad pagum Vikos, 2.9.6.1956, *G. 22868* (ATH); (512/514) in faucibus ad E. pontis trans Voidhomatis fl. viae Ioannina-Konitsa, alt. 450-550 m, 21.5.1973, *St. 17018* (ATH).  
**EK1** (340) in penins. opp. Kastoria ad ripas lacûs, alt. 650 m, 20.6.1972, *St. 15651* (ATH).  
**GL2** (251) ad E. pagi Rendina, alt. 25 m, 24.6.1971, *H. 469* (ATH).

#### **Addendum ad Atlantem**

- FL2** (311) pr. pagum Goumenissa, l.d. "Porroia", alt. 240 m, 6.8.1971, *H. 1047* (ATH).

**Parietaria judaica L.**

Adest in parte graecâ quadrilaterum DJ1, MF3.

- DJ1** (610) ad coenobium Iperajia-Theotokos Paleokastritissis ("Paleokastritsa"), 20.5.1968, *Kuhbier* (ATH); (610) pr. opp. Kerkira, 2.1890, *Sagburg* (W-Hal).  
**EH1** (711) in faucibus Klisoura inter opp. Mesolongi et Agrinio, alt. c. 500 m, 22.5.1964, *R. 25368* (Rech).  
**FG1** (810) ad lacum Stimpalia, alt. 700 m, 15.5.1971, *St. 12331* (ATH); (810) eodem loco, 15.6.1958, *R. 20547* (W).  
**FG2** (854) in m. Taijetos, a pago Tripi 2-5 km W.S.W. vs., alt. 600-950 m, 26.9.1970, *Persson 4505* (LD).  
**FH2** (822) in m. Helmos, 28.7.-2.8.1946, *G. 22861* (ATH).  
**FJ3** (412) pr. pagum Lehonía, 28.4.1896, *Sintenis 129* (W-Hal).  
**FK2** (390) pr. pagum Litohoro, in fauce "Megarema", 21.8.1891, *Sintenis & Bornmüller 1465* (W-Hal).  
**GG1** (881) ins. Ejina, 11.5.1942, *G. 22863* (ATH).  
**MF3** (112) Dhidhimotiho, in arce, 6.1963, *B. 360* (W).

**Parietaria lusitanica L.**

Adest in parte graecâ quadrilaterum DJ1, KF1.

- GK2** (240) in scopulo Kelifos advs. penins. Sithonia, 28.3.1970, *Paulidēs* (Pav).  
**KD2** (763) ins. Skiros, in lat. occ. m. Kohilas, a vertice 1-3 km W.N.W. vs., alt. 450-600 m, 24.4.1971, *Snogerup & Gustafsson 42716* (LD).

**Parietaria cretica L.**

In ins. Skiros erronee indicatur a Halácsy (1912) propter confusionem cum *P. judaicâ*: ergo punctum in KD2 omissum.

- FF3** (853) in arce Monemvasia, 19.5.1970, *St. 8969* (ATH).  
**FG4** (864) pr. pagum Leonidhi, alt. 50-150 m, 17.5.1964, *R. 25101* (Rech).  
**GH1** (762) inter pagum Limni et fodinas aeris, 27.-29.5.1955, *G. 22857* (ATH).

**Comandra elegans (Reichenb.) Reichenb. fil.**

In m. Parnis (GH2) ab anno 1878 non jam reperta et verisimiliter extincta.  
 Adest in parte graecâ quadrilaterum DL4, EL4, GL1.

- DL4** (330) fines Albaniae ad W. pagi Vrondero, l.d. "Vroatseria", alt. 1300-1400 m, 23.6.1972, *St. 15888* (ATH).  
**EK2** (350) inter pagum Anixis (Gria) et opp. Grevena, 21.-24.5.1954, *G. 20681* (ATH).  
**FK3** (250) pr. pagum Panorama, alt. 350 m, 4.6.1973, *Gr. 11078* (ATH, G, Gr).

**Osyris alba L.**

Adest in parte graecâ quadrilaterum DJ1, KF1, LF3, MF1, MF2.

- DJ1** (610) pr. pagum Varipatadhes, l.d. "Magioru", 6.1912, *Tountas* (W-Hal); (544) inter opp. Igoumenitsa et pagum Nea Selefkia, alt. 40-50 m, 30.5.1971, *St. 12505* (ATH).
- EG3** (830) in rudibus Olimbia, 29.4.1971, *St. 11891* (ATH).
- EJ3** (441) pr. opp. Kalambaka, 27.5./8.9.1896, *Sintenis 421* (W-Hal).
- FH3** (751) inter opp. Levadhia et pagum Dhistomo, l.d. Korakolithos ad N.W. pagi Tsoukaladhes, alt. 300-350 m, 26.10.1972, *St. 16393* (ATH).
- FH4** (752/772) in m. Kitheron, 25.5.1880, *Heldreich* (W-Hal).
- FJ3** (412) in m. Pilio pr. pagum Ajos Lavrendios, 29.-31.8.1953, *G. 20689* (ATH); (412) in lat. occ. m. Pilio supra opp. Volos, l.d. "Paxedhes", 8.5.1883, *Heldreich & Holzmann* (W-Hal).
- FL4** (250) pr. pagum Dherveni inter urbem Thessaloniki et pagum Langadha, 21.5.1971, *H. 144* (ATH).
- GG1** (770) ad promontorium Sounio, 21.4.1971, *Jeavons & Tsalavras 91* (ATH).
- GK2** (240) penins. Sithonia, pr. pagum Neos Marmaras, 14.10.1970 et 15.5.1971, *Paulidēs* (Pav); (240) pr. portum Koufos, l.d. "Vigla", *Paulidēs* (Pav).
- KF1** (220) pr. opp. Dhrama, alt. 120 m, 8.5.1959, *Stainton 7263* (W).
- LF3** (122) ad S.W. pagi Pandhrosos, alt. 100-120 m, 17.5.1972, *St. 15044* (ATH).
- LF4** (114) a pago Makri 2 km W. vs., 9.-10.1966, *B. & Sp. 1166* (W).
- MF1** (113) ab opp. Soufli 3 km N. vs., alt. c. 100-150 m, 26.4.1961, *R. 22190* (Rech); (113) ab opp. Soufli 3-4 km N. vs. secus viam ad opp. Dhidhimotihou ducentem, alt. 60-100 m, 25.5.1972, *St. 15518* (ATH).
- MF2** (114) l.d. "Toufliki" ad N.E. urbis Alexandhroupolis, 21.5.1961, *G. 20691* (ATH).

**Thesium linophyllon L.**

Adest in parte graecâ quadrilaterum DK4, DL4. Quoad citationes e quadrilatero EJ1, vide Aldén (1976).

- DK4** (512) pr. pagum Elefthero, l.d. "Ajia Sotira", alt. 900-950 m, 23.5.1973, *St. 17156* (ATH).
- DL4** (330) fines Albaniae ad W. pagi Vrondero, l.d. "Vroatseria", alt. 1300-1400 m, 23.6.1972, *St. 15902* (ATH).
- EK3** (360) montes Pieria, inter fontem pagi Katafijio et agros ad alt. 1600 m sitos, 8.-14.7.1956, *G. 20715* (ATH); (371) m. Vermio, in silvâ "Mavros Longos", 7.-12.8.1954, *G. 20713* (ATH).
- EK4** (350/360) m. Vourinos, inter fauces ad alt. 1600 m sitas et verticem 1850 m altum, 3.-7.7.1956, *G. 20716* (ATH, pro *Th. montano*) et *R. 17402* (W).
- FK2** (390) in m. Olimbos supra l.d. Pigadhouli, 9.-15.7.1952, *G. 20712* (ATH).

**Thesium bavarum Schrank**

Indicatio a Goulimēs (1960, sub *Th. montano*) in m. Vourinos (EK4) erronea, ad *Th. linophyllon* ducenda; dubium habeo num adsit in Halkidhiki (GK1) ut

Ntafēs (1966) firmat. Species a praecedenti in ditione nostrâ aegre distinguenda, forsân melius ejus subspecies habenda.

### **Thesium bergeri** Zucc.

Erroneae sunt indicationes in m. Vermio (EK3) et in m. Bela Voda (EL2) apud Quézel & Contandriopoulos (1968), quae ambae ad *Th. parnassi* referenda; locum pr. opp. Katerini (FK1) a Zaganiarēs (1938) citatum dubium habeo. Puncta EH4 et FF3 in charta Atlantis impressa delenda quia erronee locata.

Adest in parte graecâ quadrilateris DK4.

- FG3 (810) pr. pagum Isthmia ad isthmum Corinthiacum, 15.6.1958, *R. 20556* (W).  
 FH2 (822) pr. pagum Zahlorou, 23.7.1901, *Saint-Lager* (G).  
 FJ3 (412) inter pagos Kato Lehonia et Dhrakia, alt. c. 150 m, 18.6.1935, *Topalē* (G).  
 GK1 (240) penins. Sithonia, pr. pagum Vourvourou, 23.7.1971, *Paulidēs* (Pav).  
 GK2 (240) penins. Sithonia, in collibus ad E. porti Koufos, alt. 150-180 m, 17.6.1972, *Gr. 10457 & R. 44641* (ATH, Rech).

### **Thesium divaricatum** Mert. & Koch

Adest in parte graecâ quadrilaterum DJ1, GL1, KF1, LF1.

- EJ4 (730) supra pagum Timfristos, 31.5.-1.6.1952, *G. 20692* (ATH); (720) in m. Timfristos, ab opp. Karpenisi 5 km N.E. vs., alt. 1800-1900 m, 23.8.1973, *Gust. 4081* (LD).  
 EK4 (360) in faucibus pr. pagum Servia, 13.7.1956, *R. 18093* (W) et *G. 20700* (ATH).  
 FH2 (822) m. Helmos, in faucibus Stygis, 22.-24.6.1957, *G. 20703* (ATH).  
 FK3 (250) in m. Hortiatis (Korfiati) pr. urbem Thessaloniki, 2.7.1956, *R. 17297* (W).  
 GH1 (762) ad jugum Ajios, 27.-29.5.1955, *G. 20695* (ATH).  
 KE1 (242) inter pagum Karies et coenobium Vatopedhi, 29.6.-4.7.1954, *G. 20693* (ATH); (242) inter pagum Karies et l.d. "Provata", 29.6.-4.7.1954, *G. 20694* (ATH).

### **Thesium italicum** A. DC.

Species Graeciae longe aliena, lapsu a Quézel & Contandriopoulos (1965) in m. Taijetos (FF1) indicata: specimen in (Q) adservatum ramulum juvenile non certe determinandum, *Th. divaricato* forsân tribuendum.

### **Thesium arvense** Horvátovszky

Erronee a Quézel & Contandriopoulos (1965a) indicatur in montibus Peristeri et Karava (EJ1) propter confusionem cum *Th. linophyllo*. Adest autem reverâ in quadrilatero EJ1 ubi recentius detectum (Aldén 1976).

Adest in parte graecâ quadrilateris GL1.

**EH3** (720) in m. Kaliakoudha, a pago Mega Horio c. 4 km S.E. vs., alt. 1750-1850 m, 10.7.1973, *Gust.* 2794 (LD).

**FH2** (822) in m. Helmos, inter l.d. "Strongilolakka" et "Tou Pouliou i Vrissi", alt. 1900-2000 m, 4.7.1968, *St.* 3419 (ATH).

**FJ3** (412) in m. Pilio, l.d. "Agriolefkes", 24.-28.7.1954, *G.* 20710 (ATH).

*Thesium dollineri* Murb.

Species Graeciae aliena, erronee – propter confusionem cum *Th. linophyllo* – a Quézel & Contandriopoulos (1968) in m. Vermio (EK3) indicata.

*Thesium brachyphyllum* Boiss.

Species nuper in Graeciâ detecta, sed in Atlante nondum a sequenti distincta: adest in quadrilateribus EJ1 et EJ3 (vide Aldén 1976).

*Thesium parnassi* A. DC.

Punctum in EJ3 in Atlante delendum, quia ad speciem praecedentem transferendum. Nuper in quadrilateribus EJ1 et EK2 detectum (vide Aldén 1976).

Adest in parte graecâ quadrilaterum DK4, EL2.

**DK4** (512) in lat. bor. m. Smolikas supra pagum Ajia Paraskevi (Kerasovo), alt. 2200 m, 9.7.1958, *R.* 20944 (W).

**EK3** (371) in m. Vermio, 1965, *Quézel & Contandriopoulos* (Q, pro *Th. bergeri*).

**FG2** (854) in m. Parnon, a pago Vamvakou 6 km N.E. vs., alt. 1610-1770 m, 6.7.1968, *Persson* 802 (LD).

**FK2** (390) in lat. or. m. Olimbos supra refugium princeps, alt. 2200 m, 26.7.1971, *Gr.* 9710 (ATH, G, Gr; forma fructibus subreticulatis insignis, forsan a *Th. parnassi* vero sejungenda).

*Thesium humile* Vahl

Indicatur in m. Vermio (EK3) a Gkaniatsas (1939) et in m. Ossa (FK2) a Mavromatis (1971), verisimiliter e confusione quadam.

**DG3** (640) in promontorio Jeraki pr. pagum Vasilikos, 12.4.1971, *St.* 11511 (ATH).

*Loranthus europaeus* Jacq.

Adest in parte graecâ quadrilaterum DK4, KF1, LF1, LF3, MF2.

**DK4** (514) pr. pagum Monodhendhri, 30.5.-3.6.1950, *G.* 14722 (ATH).

**EK2** (350) a pago Anixis (Gria) 7-13 km N. vs., secus viam ad opp. Grevena ducentem, 19.7.1958, *R.* 21615 (W).

**MF2** (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 1914* (W); (114) in sylvâ "Kavouratzi" a pago Loutros 10-11 km N. vs. secus viam ad vicum derelictum Pessani ducentem, alt. 260-300 m, 19.5.1972, *St. 15193* (ATH).

### **Viscum album L.**

Specimina non certe ad subspeciem determinanda nisi planta hospes indicetur. E notis in schedis consignatis et ex observationibus propriis patet subsp. **album** in Graeciâ bor. tantum occurrere, subsp. **abietis** (Wiesb.) Abromeit in Graeciâ continentali omni usque ad Peloponnesum nec non in Euboeâ ins. valde divulgatum esse, dein subsp. **austriacum** (Wiesb.) Vollmann in Graeciâ centr. et mer. omnino deesse. Planta cretica, in *Pino brutiâ* parasitica sed habitu subsp. *abietis* exacte referens, interim subsp. *austriaco* adhibui.

Adest in parte graecâ quadrilaterum DK4 (subsp. *austriacum*), KF1 (subsp. *austriacum*), MF3 (subsp. *album*).

**DK4** (512) in lat. bor. m. Smolikas supra pagum Ajia Paraskevi (Kerasovo), alt. c. 1600 m, in *Pino pallasianâ* parasiticum, 9.7.1958, *R. 21087* (W; est subsp. *austriacum*).

**EK2** (441/511) in jugo Katara, 22.4.1969, *Niebuhr* (ATH).

**FH1** (751) in m. Parnassos, ad bivium viae ad refugium ducentem a viâ Kalivia-Eptalofos, alt. 1150 m, in *Abiete cephalonicâ* parasiticum, 27.10.1972, *St. 16417* (ATH; est subsp. *abietis*).

**MF3** (112) pr. pagum Koufovouni, in *Pyro* parasiticum, 6.1965, *B. & Sp. 1442* (W; est subsp. *album*).

### **Arceuthobium oxycedri (DC.) M.B.**

Adest in parte graecâ quadrilaterum DK4, EL2, GL1, MF2.

**DK4** (512) ad N.W. opp. Konitsa, l.d. Makrovouni, alt. 600-700 m, 23.7.1971, *St. 13407* (ATH).

**EK2** (441) pr. pagum Malakasi, alt. 850-900 m, 10.1971, *Dakos 15 bis* (ATH).

**EL2** (330) ad radices occ. montium Bela Voda (Kalo Nero) supra pagum Plati, alt. 950-1000 m, 3.8.1973, *Gr. 11546* (ATH, Gr).

**MF2** (114) montes Boukate Dag, in m. Kallithea a pago Esimi 10 km N. vs., alt. 800-900 m, 6.1965, *B. & Sp. 2052* (W); (114) c. pagum Esimi, 7.1963, *B. & Sp. 225* (W).

### **Asarum europaeum L.**

Praeter auctores veteros omnino dubios (Dallaporta pro ins. Kefallinia, Sibthorp pro Laconiâ) indicatur a Zaganiarēs (1934, 1940) pr. Vahos (FF1) et in m. Athos (KF1), sed loca omnia firmanda. Graeciae dubia civis.

### **Aristolochia sempervirens L.**

Subspecies typica hujus speciei in ins. Cretâ tantum occurrit, plantae Peloponnesi et Graeciae austro-occidentalis ad subsp. **altissimam** (Desf.) ( $\equiv$  *A. altissima*

Desf., Fl. Atl. 2: 324, t. 249. 1799) referendae. Indicatur in regione inferiore m. Grammos (DK3) a Zaganiarēs (1940), sed magnopere dubito!

EG1 (830) ad S.E. pagi Varvasena, alt. 50 m, 29.4.1971, *St. 11874* (ATH).

EH1 (712) inter vicum Loutraki et pagum Katouna, 22.5.1964, *R. 25403* (Rech) et *Ph. 1570* (M).

### **Aristolochia clematitis L.**

Adest in parte graecâ quadrilaterum EL4, FL3, GL1, KF1, LF1, LF3, MF2, MG2.

EK2 (441) inter pontem infra vicum Mourngani situm et pagum Ajiofillo, 22.5.1957, *G. 295 bis* (ATH).

EL4 (323) inter opp. Edhessa et pagum Agras, 31.5.-3.6.1951, *G. 264* (ATH); (323) pr. opp. Edhessa (Vodhena), 12.7., *Orfanidēs 1012* (W-Hal).

FH1 (742) in lat. bor. m. Parnassos pr. pagum Litea, 3.5.1970, *Niebuhr 8240* (ATH).

FJ1 (420) pr. opp. Larisa, 15./28.7.1913, *Tountas 1762* (W-Hal).

FL4 (250) ad fl. Gallikos pr. pontem pagi Filadhelfiana, 20.5.1971, *H. 127* (ATH).

LF1 (130/211) in faucibus fl. Nestos, ab opp. Kavala 36 km N.E. vs., alt. 45 m, 17.5.1959, *Stainton 7467* (W).

LF3 (122) ad pagum Nimfea, alt. 500 m, 9.6.1970, *St. 9884* (ATH); (122) ad S.W. pagi Pandhrosos, alt. 100-120 m, 17.5.1972, *St. 15018* (ATH).

LF4 (114) pr. pagum Makri, inter litus Platanos et antrum cyclopi, alt. 0-50 m, 21.4.1972, *St. 14851* (ATH); (122) a pago Porpi 2 km E. vs., 6.1965, *B. & Sp. 1400* (W).

MF2 (114) ad S.W. pagi Avas, alt. 80-100 m, 22.4.1972, *St. 14889* (ATH); (114) pr. pagum Potamos, 20.5.1961, *G. 266* (ATH).

MG2 (111) ad N.W. pagi Keramos secus fl. Ardha, alt. 50 m, 22.5.1972, *St. 15327* (ATH).

### **Addendum ad Atlantem**

FL2 (311) pr. pagum Goumenissa, l.d. "Porroia", 6.8.1971, *H. 1020* (ATH).

### **Aristolochia rotunda L.**

Adest in parte graecâ quadrilaterum DJ1, EL4, KF1, MF2, MF3.

EH4 (823) inter pagos Kallitheokambos et Kallithea, 11.4.1969, *Androulakēs 5210* (ATH); (823) pr. pagum Kallithea, l.d. "Kamini", 14.4.1969, *Androulakēs 5273* (ATH).

EJ4 (730) c. pagum Timfristos, 9.-13.5.1953, *G. 306* (ATH); (430) in valle inter pagos Kedhros et Loutropiji, alt. c. 400 m, 7.-8.5.1961, *R. 23004* (Rech).

EK3 (362) inter opp. Kozani et Ptolemais, pr. bivium pagi Haravji, 31.5.-3.6.1951, *G. 305* (ATH).

EL4 (322/330) in ditone m. Kaimaktsalan, alt. 600-1000 m, 31.5.-3.6.1951, *G. 303* (ATH).

FJ2 (730) secus fl. Spherios ad pedes m. Iti, l.d. "Patradgik", *Zuccarini* (M).



- FJ3** (412) in m. Pilio pr. pagum Tsangaradha, l.d. Milopotamos, 3.6.1967, *St.* 468 (ATH).  
**FK1** (390) montes Pieria, supra pagum Skotina et sylvam Karajianni, 26.-27.4.1960, *G.* 293 (ATH).  
**KC1** (763) in pago Kimi, *Zuccarini* (M).  
**KF1** (220) in m. Falakro (Boz Dag), ab opp. Dhrama 18 km N. vs., alt. 300 m, 10.5.1959, *Stainton* 7314 (W).  
**KF2** (210/220) inter opp. Dhrama et Kavala, 9.-15.5.1956, *G.* 296 (ATH).  
**MF2** (114) ad S.W. pagi Avas, alt. 80-100 m, 22.4.1972, *St.* 14889 (ATH); (114) in pago Potamos, 20.5.1961, *G.* 288 (ATH).  
**MF3** (112) in sylvâ ad E. pagi Koufovouni, alt. 20-70 m, 25.5.1972, *St.* 15478 (ATH).

### *Aristolochia pallida* Willd.

Adest in parte graecâ quadrilaterum DJ1, KF1, MF1, MF2.

- DH3** (620) in colle ad N.W. pagi Ajios Petros, alt. 500 m, 16.4.1970, *St.* 8042 (ATH); (620) ad S.W. pagi Ajios Ilias, alt. 450-600 m, 27.5.1971, *St.* 12395 (ATH).  
**EG4** (841) montes Kiparissia, inter pagum Mali et vicum Kerasea, alt. 700-800 m, 1.5.1971, *St.* 12041 (ATH).  
**EJ4** (720) inter opp. Karpenisi et pagum Mega Horio, 9.-13.5.1953, *G.* 286 (ATH); (720) inter opp. Karpenisi et pagum Stenoma, ab ecclesiâ Ajios Athanasios jugum Kokkino Dhiaselo vs., 9.-13.5.1953, *G.* 285 (ATH).  
**EK2** (512) ad N.W. pagi Dhistrato, alt. 900-950 m, 22.5.1973, *St.* 17201 (ATH).  
**FG1** (862/863) inter pagos Vitina et Hrisovitsi, 7.-9.5.1950, *G.* 274 (ATH).  
**FG2** (854) in faucibus Langadha ad W. pagi Tripi, alt. 1000 m, 2.4.1969, *St.* 5150 (ATH).  
**GH2** (770) in m. Parnis, 16.5.1954, *G.* 277 (ATH).  
**KC1** (763) inter pagos Kimi et Metohi, 4.6.1965, *Ph.* 4332 (M).  
**KC2** (763) montes Ohi, ad N.E. pagi Mili, l.d. Kolones, alt. 550-600 m, 24.3.1971, *St.* 11214 (ATH) et 30.4.-4.5.1949, *G.* 275 (ATH).  
**KF2** (212/232) in m. Pangeo, 27.4.1950, *G.* 276 (ATH).  
**MF1** (113) montes Boukate Dag, l.d. Tris Vrises supra domum forestalem, alt. 750-800 m, 20.5.1972, *St.* 15245 (ATH).  
**MF2** (114) ad S.W. pagi Avas, alt. 80-100 m, 22.4.1972, *St.* 14896 (ATH).

### *Aristolochia longa* L.

A priore in ditione nostrâ, si tubera desint, aegre distinguenda. Loca plura ab auctoribus pro *A. longâ* citata verisimiliter ad *A. pallidam* pertinent, ut e.g. planta Euboeae mer. (KC2) apud Rechinger (1961). Dubia quoque indicatio pro m. Athos (KE1) apud Zaganiarês (1940).

- GH1** (762) inter pagum Ano Steni et jugum Strombones, 16.-17.6.1959, *G.* 280 (ATH).



**Aristolochia microstoma** Boiss. & Spruner

Indicatur in m. Atho a Gkaniatsas (1963) qui specimen in herbario pharmacopolae cujusdam studuit, sed proventum hujus plantae dubium habeo.

**FG1** (862/863) in m. Menalo inter pagos Vitina et Alonistena, alt. 1100-1400 m, 14.6.1958, *R. 20478* (W).

**FG3** (872) montes Arahneo, in m. Mavrovouni ad W. vici Psimouleika, alt. 350-500 m, 15.4.1972, *St. 14762* (ATH).

**FH2** (810) montes Ziria, in faucibus supra bivium refugii ad S. pagi Trikala, alt. 1400-1450 m, 12.4.1970, *St. 7861* (ATH).

**Cytinus hypocistis** (L.) L. subsp. **hypocistis**

Indicationes speciei apud auctores veteros omnes infidae nisi planta hostis nota esset.

**FH4** (772) inter opp. Megara et Korinthos, a pago Kineta 2 km E. vs., in ditione Kaki Skala, 24.3.1968, *St. 1770* (ATH).

**FJ3** (412) ad N.E. pagi Kissos, 4.6.1967, *St. 494* (ATH).

**Cytinus hypocistis** subsp. **orientalis** Wettst.

**FG3** (872) in collibus ad E. pagi Nea Epidhavros, l.d. Ajos Nikolaos, alt. 50-100 m, in *Cisto parvifloro* parasiticus, 14.4.1972, *St. 14709* (ATH).

**Cytinus ruber** (Fourr.) Komarov

Adest in parte graecâ quadrilateris DJ1.

**DJ1** (610) in clivis m. Aji Dheka, 5.1878, *Spreitzenhofer* (W-Hal).

**EG1** (830) pr. pagum Paleovarvasena, 29.4.1971, *St. 11926* (ATH).

**EG3** (831) ab opp. Pigos 19 km pagum Kiparissia vs., pr. bivium pagi Krouni, 30.3.1969, *St. 4986* (ATH).

**EG4** (841) pr. pagum Hora, secus fl., 31.3.1969, *St. 5045* (ATH).

**GG1** (770) in scopulo Arsidha advs. Anavissos, alt. 10-120 m, 15.4.1973, *St. 16802* (ATH); (881) ins. Ejina, 18./26.4.1881, *Heldreich & Holzmann* (W-Hal).

**GH2** (770) pr. pagum Avlona, ad viam ferream, 14.4.1971, *Zoumboulē 79* (ATH); (770) pr. pagum Dhekelia, 21.5.1967, *St. 669* (ATH).

## REFERENCES

Aldén, B. (1976). Floristic reports from the high mountains of Pindhos, Greece. *Bot. Not.* 129: 297-321.

Chloros, N. A. (1884). *Waldverhältnisse Griechenlands*. München.

Gkaniatsas, K. (1939). Botanikai ereunai epi tou orous Bermiou. *Epist. Epet. Shol. Fus. Math. Epist. Panepist. Thessalonikēs* 5: 225-264.

– (1963). *Ē blastēsis kai ē hlōris tēs hersonēsou tou Agiou Orous*. Thessalonikē.

- Goulimēs, C. N. (1960). To oros Bourinos kai ē hlōris tou. *Bouno* 1960: 126-135.
- Halácsy, E. von (1912). Supplementum secundum Conspectus florae graecae. *Magyar Bot. Lapok* 11: 114-202.
- Jalas, J. & J. Suominen (1972, 1973, 1976). *Atlas florae europaeae. Distribution of vascular plants in Europe*. Vol. 1, 2, 3. Helsinki.
- Kitanov, B. (1943). Vārhu rastitelnost'ta na planinata Bozā-Dagā vā istočna Makedonija. *God. Sofijsk. Univ. Fiz. Mat. Fak. Kn. 3 Estestv. Istorija* 39: 169-291.
- Laurentiadēs, G. I. (1956). *Ereunai epi tēs udrobiou kai elobiou hlōridos tōn embroufutōn tēs ellēnikēs Makedonias*. Thessalonikē.
- Mavrommatis, G. (1971). *Recherches phytosociologiques et écologiques dans le massif de l'Ossa (Grèce) en vue de sa gestion forestière*. Montpellier.
- Ntafēs, S. A. (1966). *Stathmologikai kai dasopodotikai ereunai eis premnofuē druodasē kai kastanōta tēs boreioanatolikēs Halkidikēs*. Thessalonikē.
- Quézel, P. & J. Contandriopoulos (1965). Contribution à l'étude de la flore des hautes montagnes de la Grèce. *Naturalia Monspel., Sér. Bot.* 16: 89-149.
- & J. Contandriopoulos (1965a). Contribution à l'étude de la flore du Pinde central et septentrional et de l'Olympe de Thessalie. *Candollea* 20: 51-90.
- & J. Contandriopoulos (1968). Contribution à l'étude de la flore de la Macédoine grecque. *Candollea* 23: 17-37.
- Rechinger, K. H. (1943). Flora aegaea. Flora der Inseln und Halbinseln des Ägäischen Meeres. *Akad. Wiss. Wien Math.-Naturwiss. Kl. Denkschr.* 105/1.
- (1961). Die Flora von Euboea. *Bot. Jahrb. Syst.* 80: 294-465.
- Vandas, C. (1909). *Reliquiae Formánekiānae. Enumeratio critica plantarum vascularium quas itineribus in Haemo peninsula et Asia Minore (Bithynia) factis collegit Dr. Ed. Formánek, professor gymnasii brunensis bohemicus*. Brunae.
- Zaganiarēs, D. (1934). *Ē hlōris tēs Manēs*. Athēnai.
- (1938-1940). Herbarium macedonicum. Primum [secundum / tertium et quartum] mille. *Epist. Epet. Shol Fus. Math. Epist. Panepist. Thessalonikēs* 5: 97-131, 151-185; 6: 38-139.

