

<b>Zeitschrift:</b>	Candollea : journal international de botanique systématique = international journal of systematic botany
<b>Herausgeber:</b>	Conservatoire et Jardin botaniques de la Ville de Genève
<b>Band:</b>	34 (1979)
<b>Heft:</b>	1
<b>Artikel:</b>	"Flora Europaea" and the taxonomic studies on vascular plants in Bulgaria
<b>Autor:</b>	Kuzmanov, Bogdan A.
<b>DOI:</b>	<a href="https://doi.org/10.5169/seals-880107">https://doi.org/10.5169/seals-880107</a>

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# **“Flora Europaea” and the taxonomic studies on vascular plants in Bulgaria**

**Bogdan A. Kuzmanov**

## **RÉSUMÉ**

KUZMANOV, B. A. (1979). “Flora Europaea” et l’étude taxonomique des plantes vasculaires en Bulgarie. *Candollea* 34: 11-19. En anglais.

Le projet national “Flora R. P. Bulgaricae” était organisé concurremment avec le projet continental de “Flora Europaea”. L’influence de cette importante réalisation des taxonomistes européens sur l’étude taxonomique en Bulgarie est discutée; des corrections et additions concernant la flore bulgare sont fournies.

## **ABSTRACT**

KUZMANOV, B. A. (1979). “Flora Europaea” and the taxonomic studies on vascular plants in Bulgaria. *Candollea* 34: 11-19. In English, French abstract.

The national project for “Flora R. P. Bulgaricae” was organised concurrently with the continental project of “Flora Europaea”. The influence of this major achievement of the european taxonomists on taxonomic studies in Bulgaria is discussed and corrections and additions concerning bulgarian flora are made.

During the last 25 years the continental project “Flora Europaea” was organised and completed and the national project for “Flora R. P. Bulgari-  
cae” is also in good progress (volume 6 which ends the first half of the edition was published in 1976). It is worth discussing some of the interrelations and correlations between these two projects.

## “Flora Europaea” and “Flora R. P. Bulgaricae”

Bulgaria has, like most of the southern European countries, a rich flora and the number of trained taxonomists does not correspond to the number of species to be studied. The flora is still not completely known — still new genera and species are recorded (see KUZMANOV, 1974a). In the same time the present stage of its floristic exploration is rather more advanced than in most of the other countries of the region. In the Balkan peninsula the Bulgarian flora is going to be one of the best known in the near future.

Organization and completion of “Flora Europaea” coincide with a period of intensive development of the floristic and taxonomic studies on vascular plants in Bulgaria (KUZMANOV, 1974a, 1974b). An impressive number of genera and species were recorded or described, the fourth edition of “Flora of Bulgaria” by Stojanov & Stefanov and the first half of “Flora R. P. Bulgaricae” were published (at present the seventh volume excluding *Oxalidaceae* to *Araliaceae* is in press). These studies would not have been possible without the training of young taxonomists and there is now a group of specialists working on taxonomy of Bulgarian plants.

The first volume of “Flora Europaea” had strongly influenced the taxonomy in Bulgaria. At this time the importance of the botanical nomenclature, the type-method and the biosystematic approach were recognized in this group (KOZUHAROV & KUZMANOV, 1961; KUZMANOV, 1974a, 1974b). And yet the first two volumes of “Flora R. P. Bulgaricae” appeared with quite a number of omissions, mistakes and confusions. Even the “Flora Europaea” manuscripts had helped the fourth edition of “Flora of Bulgaria” (STOJANOV & al., 1967: 592, 604, 619, 629, 672, 691, 712, 722, 782, 791). The influence of the continental flora on the project “Flora R. P. Bulgaricae” can be seen in the preface of volume 3 (JORDANOV, 1966), as well as in the changes in volume 3, 4, 5, 6 and 7th.

The taxonomic treatment of some of the genera and species changed also our knowledge about these taxa. For a long time it was considered that the only species of *Isoetes* growing in Bulgaria (in Pirin mountain) is *I. lacustris*. After the publication of the first volume of “Flora Europaea” it was stated that in fact *I. setacea* (with spiny megasporangia) (compare for this genus “Flora R. P. Bulgaricae” 1: 91 and the fourth edition of “Flora of Bulgaria”: 32) is widespread in Bulgaria. Later on it was proved that *Lathyrus monocarpus* of Stojanov & Achtarov is in fact *Vicia bithynica*. Some new species were also described from Bulgaria, like *Dianthus burgasensis* Tutin (in HEYWOOD, 1961). Some of the species largely neglected by Bulgarian botanists like *Dianthus dobrogensis*, *D. freynii*, *Limonium asterotrichum*, etc., were recorded by “Flora Europaea” and this made necessary again a more detailed study in Bulgaria. *Johrenia pichleri*, described by Boissier (in 1888) from Bulgaria and for a long time recorded in the floras proved to be only *Peucedanum alsaticum* (“Flora Europaea” 2: 363). On the other hand in the

published volumes of "Flora Europaea" there were also omissions and mistakes concerning Bulgarian flora (in spite of the careful checking of the manuscripts by the regional advisers). *Juniperus oxycedrus* — a very common plant is an illustrative case. Other examples are *Coronilla elegans* (known in most parts of Bulgaria up to 300 m), *Helianthemum oelandicum* (known from Pirin and Stara Planina), *Bryonia cretica* (from Northwestern Bulgaria), *Circaea alpina* and others (see more in Table 1 with references). *Aldrovanda vesiculosa* had disappeared long ago from its single locality in Bulgaria (after drainage of the place) but was still recorded for Bulgaria in "Flora Europaea". The same is true for *Peucedanum palustre*. *Ficus carica* is widely naturalized in the country (see KUZMANOV & KOZUHAROV, 1971) but was omitted in "Flora Europaea" (see also JALAS & SUOMINEN, 1976: 85). Fortunately the number of these omissions and mistakes clearly diminished with every volume of "Flora Europaea" published.

Taxonomic studies on Bulgarian flora had led to the discovery of many new genera, species and other taxa (see a list in KUZMANOV, 1974a and Table 1). For some of the genera already published in "Flora Europaea" corrections (as for example those in the previous paragraph) will be possible in a future "Addenda and Corrigenda" to the continental flora. The genus *Salix* is an illustrative case. In his studies VELCEV (in JORDANOV, 1966) has found two species new for Bulgarian flora and reaffirmed another one. Study on herbar materials had shown that *Chamaecytisus jankae* is also in Turkey-in-Europe (KUZMANOV, 1971 and in JORDANOV, 1976). One species of *Suaeda* — *S. heterophylla* — recorded first by Velenovsky (in 1891 for Burgas) and later on by Urumov (in 1932 for Pomorie) has been rejected by STOJANOV & STEFANOV (1933, 1948) and "Flora Europaea". However it has been reconfirmed for Bulgaria with some new collections and revision of some collections (JORDANOV & KUZMANOV in JORDANOV, 1966). *Juglans regia* was recorded as a native plant in Bulgaria (and some specialists still believe it is) but recent study on quaternary deposits by FILIPOVA (1977a) has shown that it did not survive the glaciations and is quite a recent introduction (compare also JALAS & SUOMINEN, 1976: 53). Many other species are listed in Table 1.

In other case studies on Bulgarian flora preceded or were concurrent with the work on different genera or families for "Flora Europaea". *Genista subcapitata* was until recently considered as a narrow endemic in Jugoslavia (GIBBS, 1966). The study for "Flora R. P. Bulgaricae" showed that this species is rather widespread in Western Bulgaria (and this appeared first in "Flora Europaea" 2: 96; see also KUZMANOV in JORDANOV, 1976). *Salvia scabiosifolia* was recently recorded in Bulgaria (see KUZMANOV, 1974a) and the record can be found in volume 3 of the continental flora.

During the work on some genera more or less close contacts were established between taxonomists elaborating the two projects as for *Linum* (D. Ockendon — A. Petrova), *Euphorbia* (A. Smith — B. Kuzmanov), *Saxifraga* (D. Webb — B. Kuzmanov), *Galium* (F. Ehrendorfer — M. Anchev; in the last genus, the extra time available to the senior author to prepare the manuscripts made possible a joint publication on a new species — *Galium*

*procurrens*). Along with the checking of the manuscripts by the regional adviser, some specialists have been able to see and comment on as Kozuharov (*Trifolium* and many *Leguminosae* and *Gramineae*), Popova (*Lilium*), Delipavlov (*Tulipa*), Češmedžiev (*Allium*), Kovacev (*Colchicum*), Anchev (*Galium*). Unfortunately there was no possibility for the students to use the manuscripts during their training in floristics and taxonomy — the English language proved to be still a real barrier for such a practice.

Some of the numerous cases of taxonomic disagreements between authors in "Flora Europaea" and "Flora R. P. Bulgaricae" may also be reviewed. *Pinus leucodermis* is considered by "Flora Europaea" authors as widespread in AL, GR, IT, JU, and BU and *P. heldreichii* in AL, GR, and JU only. STOJANOV (in JORDANOV, 1963) considered the last species as widespread in Bulgaria. *Saxifraga mollis* was separated in Bulgarian Flora (KUZMANOV in JORDANOV, 1970) from *S. sibirica*. The first species is confined to the evergreen eu- and submediterranean types of vegetation in Balcan Peninsula and should be distinguished from the central Asiatic and fareastern *S. sibirica*. *Saxifraga sancta* should be also better separated from *S. juniperifolia*. Many other endemic and subendemic Bulgarian species have not been recognized in "Flora Europaea". Of some 510 European endemics, which occur in Bulgaria, only 57 are recognized by "Flora Europaea" as Bulgarian endemics. On the other side Bulgarian floras (excluding the newly described species not yet considered in standard floras, see Table 1) record some 83 Bulgarian endemics — a difference of some 26 species (a detailed list is in KUZMANOV, in press). Certainly such differences in taxonomic treatment are inevitable and future studies will make clear their appropriate taxonomic status.

It is difficult to estimate the amount of work put into reading and correcting the manuscripts of "Flora Europaea" by the regional advisers. But some of the specific characteristics of such work in Bulgaria might be of interest. There are four editions of "Flora of Bulgaria", but it is more like a key or a field flora. There are no descriptions, the variation of the local populations usually is not documented, the distribution for most of the species is rather broadly described ("in the warmer parts of the country" is a common text), many data from references are not commented at all (the first edition of 1924-25 being the only exception). In Bulgarian herbaria many critical taxa are not well documented and checking is sometimes impossible, most of the types are not in the country. There is even a large group of species not known to the present day bulgarian botanists. This group is discussed in details elsewhere (KUZMANOV, in press) and here only two examples may be given — *Serratula bulgarica* (described in 1932 on materials collected in 1889) and *Dianthus burgasensis* (described in 1963 on materials collected in 1893).

The fifth volume of "Flora Europaea" is completed and will be published soon. With this the colleagues of the Committee proved their ability to work and organize people from all european (and some extraeuropean also) countries to work on a project for over 22 years. There are more than 170 authors

who contributed to these five volumes and some 80 advisers who had devoted their efforts and time to the completion of the "Flora". This is a major achievement of the taxonomists in the continent which influenced and will continue to do so the taxonomic studies in most of the European countries and in Bulgaria as well.

**Table 1. — Corrections and complements to "Flora Europaea".**

Species	Flora Europaea (vol.: page)	References*
<b>A. Species for which the indication of distribution should include Bulgaria</b>		
<i>Adonis volgensis</i> .....	1: 222	Panov & Asenov in Jordanov, 1970
<i>Alcea lavateriflora</i> .....	2: 254	Stojanov & al., 1967
<i>Ammannia verticillata</i> ...	2: 302	Bondev & Popov, 1971
<i>Anthriscus tenerrima</i> ...	2: 326	Popova, 1972
<i>Arabis collina</i> .....	1: 292	Asenov in Jordanov, 1970
<i>Asplenium cuneifolium</i> .	1: 16	Kozuharov, 1968
<i>Asplenium javorkeanum</i>	1: 17	Vida, 1963
<i>Astragalus glaucus</i> .....	2: 122	Stojanov & Stefanov, 1925
<i>Azolla filiculoides</i> ** .....	1: 25	Petrov, 1970
<i>Bryonia cretica</i> .....	2: 296	Stojanov & al., 1967
<i>Chaerophyllum aromaticum</i> .....	2: 325	Dimitrov & al., 1967
<i>Circaeae alpina</i> .....	2: 306	Stojanov & al., 1967
<i>Coronilla elegans</i> .....	2: 183	Stojanov & Stefanov, 1925
<i>Corispernum marschallii</i>	1: 99	Jordanov & Kuzmanov in Jordanov, 1966
<i>Draba athoa</i> .....	1: 309	Stojanov & Stefanov, 1924
<i>Dryopteris assimilis</i> .....	1: 22	Simon & Vida, 1966
<i>Erigeron annus</i> .....	4: 117	Jordanov & al., 1974
<i>Frangula rupestris</i> .....	2: 245	Stojanov & Stefanov, 1925
<i>Gentianella austriaca</i> ...	3: 69	Delipavlov, 1973
<i>Helmintia humifusa</i> .....	4: (316?)	Delipavlov, 1968
<i>Juniperus oxycedrus</i> ...	1: 38	Stojanov & Stefanov, 1924
<i>Lathyrus hallersteinii</i> ...	2: 140	Kozuharov in Jordanov, 1976
<i>Lathyrus montanus</i> .....	2: 140	Kozuharov in Jordanov, 1976
<i>Lathyrus saxatilis</i> .....	2: 141	Kozuharov in Jordanov, 1976
<i>Lathyrus transsilvanicus</i>	2: 138	Kozuharov in Jordanov, 1976
<i>Limonium meyeri</i> .....	3: 41	Gancev, 1963
<i>Linum elegans</i> .....	2: 207	Petrova, 1973
<i>Linum uninerve</i> .....	2: 207	Petrova, 1973
<i>Malva nicaeensis</i> .....	2: 251	Panov, 1975
<i>Malva verticillata</i> .....	2: 251	Delipavlov, 1961
<i>Minuartia adenotricha</i> ..	1: 128	Panov, 1975
<i>Minuartia anatolica</i> .....	1: 129	Panov, 1975
<i>Minuartia mediterranea</i>	1: 127	Kozuharov & Kuzmanov in Jordanov, 1966

\*Most of the species are referred to the standard Bulgarian Floras, the original reference is given only for the species not yet recorded in these Floras.

\*\*Aliens are in roman type.

**Table 1. — Continuation.**

Species	Flora Europaea (vol.: page)	References
<i>Montia sibirica</i> .....	1: 115	Georgiev in Jordanov, 1966
<i>Nigella elata</i> .....	2: 210	Panov, 1972
<i>Nigella orientalis</i> .....	1: 210	Panov, 1975
<i>Onobrychis inermis</i> .....	2: 191	Kozuharov in Jordanov, 1976
<i>Onobrychis viciifolia</i> .....	2: 191	Kozuharov in Jordanov, 1976
<i>Paronychia taurica</i> .....	1: 151	Borhidi, 1966
<i>Petrorhagia thessala</i> .....	1: 187	Radenkova in Jordanov, 1966
<i>Polygala alpestris</i> .....	2: 235	Kozuharov & Petrova in Jordanov (in press)
<i>Ranunculus fallax</i> .....	1: 232	Penev in Jordanov, 1970
<i>Ranunculus hayekii</i> .....	1: 229	Penev in Jordanov, 1970
<i>Ranunculus sphaero-</i> <i>spermus</i> .....	1: 237	Penev in Jordanov, 1970
<i>Salicornia ramosissima</i> ..	1: 102	Jordanov & Kuzmanov in Jordanov, 1966
<i>Salix aurita</i> .....	1: 50	Velcev in Jordanov, 1966
<i>Salix hastata</i> .....	1: 52	Velcev in Jordanov, 1966
<i>Salix pentandra</i> .....	1: 45	Velcev in Jordanov, 1966
<i>Saxifraga aizoides</i> .....	1: 371	Stojanov & Stefanov, 1948
<i>Solanum heterodoxum</i> ..	3: 199	Delipavlov, 1968
<i>Stachys tymphaea</i> .....	3: 153	Stojanov & al., 1967; Koeva, 1973
<i>Suaeda heterophylla</i> .....	1: 104	Jordanov & Kuzmanov in Jordanov, 1966
<i>Symphytum orientale</i> ..	3: 105	Panov, 1973
<i>Trifolium ligusticum</i> .....	2: 167	Stojanov & al., 1967
<i>Trifolium physodes</i> .....	2: 164	Kozuharov in Jordanov, 1976
<i>Trifolium rubens</i> .....	2: 172	Kozuharov in Jordanov, 1976
<i>Trifolium squarrosum</i> ..	2: 171	Stojanov & al., 1967
<i>Trifolium squamosum</i> ..	2: 171	Stojanov & al., 1967
<i>Trifolium spumosum</i> .....	2: 164	Stojanov & al., 1967
<i>Trifolium suffocatum</i> .....	2: 164	Stojanov & al., 1967
<i>Urospermum picroides</i> ..	4: 308	Kuzmanov & Jurukova, 1977
<i>Veronica glauca</i> .....	3: 249	Peev, 1975a
<i>Veronica fruticans</i> *** ..	3: 244	Peev, 1975b
<i>Veronica fruticulosa</i> *** ..	3: 244	Peev, 1975b
<i>Viola speciosa</i> .....	2: 279	Delipavlov in Jordanov, in press

\*\*\*Status uncertain.

**B. Species for which the indication of distribution should exclude Bulgaria**

<i>Aldrovanda vesiculosa</i> ..	1: 350	Stojanov & al., 1967
<i>Arabis verna</i> .....	1: 293	Asenov in Jordanov, 1970
<i>Bassia sedoides</i> * .....	1: 98	Jordanov & Kuzmanov in Jordanov, 1966
<i>Biscutella laevigata</i> .....	1: 327	Valev in Jordanov, 1970
<i>Castanea sativa</i> .....	1: 67	Filipova, 1977b
<i>Celtis tournefortii</i> .....	1: 66	Georgiev & Palamarev in Jordanov, 1966
<i>Cimicifuga europaea</i> ...	1: 211	Panov in Jordanov, 1970
<i>Dianthus leptopetalus</i> ..	1: 199	Stojanov in Jordanov, 1966
<i>Enarthrocarpus arcuatus</i>	1: 345	Kuzmanov in Jordanov, 1970

\*Not confirmed for Bulgaria.

**Table 1. — Continuation.**

Species	Flora Europaea (vol.: page)	References
<i>Erysimum cheiranthoides</i> .....	1: 274**	Asenov in Jordanov, 1970
<i>Erysimum smyrnaeum</i> ..	1: 272**	Asenov in Jordanov, 1970
<i>Ficus carica</i> .....	1: 67	Georgiev in Jordanov, 1966
<i>Iberis pruitii</i> .....	1: 323	Valev in Jordanov, 1970
<i>Juglans regia</i> .....	1: 56	Kitanov in Jordanov, 1966; Filipova, 1977a
<i>Liparis loeselii</i> * .....	5	Stojanov in Jordanov, 1964
<i>Minuartia attica</i> .....	1: 131**	Panov, 1975
<i>Petrosimonia oppositifolia</i> .....	1: 108	Jordanov & Kuzmanov in Jordanov, 1966
<i>Peucedanum palustre</i> ..	2: 363	Stojanov & al., 1967
<i>Polygonum acutatum</i> ..	1: 79	Asenov in Jordanov, 1966
<i>Polygonum aequisetiforme</i> .....	1: 77	Asenov in Jordanov, 1966
<i>Polygonum salicifolium</i> * ..	1: 79	Asenov in Jordanov, 1966
<i>Ranunculus circinatus</i> * ..	1: 237	Penev in Jordanov, 1970
<i>Ranunculus fluitans</i> * ..	1: 238	Penev in Jordanov, 1970
<i>Sagina nodosa</i> * .....	1: 146**	Kuzmanov & Kozuharov in Jordanov, 1966
<i>Salix nigricans</i> * .....	1: 49**	Velcev in Jordanov, 1966
<i>Salix rosmarinifolia</i> .....	1: 51	Stojanov & al., 1966
<i>Saxifraga grisebachii</i> .....	1: 379	Kuzmanov in Jordanov, 1970
<i>Silene colorata</i> .....	1: 180	Jordanov & Panov in Jordanov, 1966
<i>Silene dioica</i> * .....	1: 174	Jordanov & Panov in Jordanov, 1966
<i>Silene exaltata</i> * .....	1: 167	Jordanov & Panov in Jordanov, 1966
<i>Silene viscosa</i> * .....	1: 165	Jordanov & Panov in Jordanov, 1966
<i>Silene zawadskii</i> .....	1: 168**	Jordanov & Panov in Jordanov, 1966
<i>Thalictrum foetidum</i> * ..	1: 241	Panov in Jordanov, 1970; this report

\*Not confirmed for Bulgaria.

\*\*Not recorded in "Flora Europaea" for Bulgaria.

**C. Species newly described and not considered in "Flora Europaea"  
or the standard Bulgarian floras (for the species already considered  
see Kuzmanov, 1974a)**

<i>Amaranthus bulgaricus</i> .....	Kovacev, 1970
<i>Centaurea camciensis</i> .....	Kocev and Gancev, 1968
<i>Galium velenovskyi</i> .....	Ancev, 1975
<i>Minuartia diljanae</i> .....	Panov, 1973a
<i>Minuartia jordanovii</i> .....	Panov, 1974
<i>Minuartia rumelica</i> .....	Panov, 1973a
<i>Sempervivum velenovskyi</i> .....	Češmedžiev, 1969
<i>Silene stojanovii</i> .....	Panov, 1973b
<i>Tulipa aureolina</i> .....	Delipavlov, 1976
<i>Tulipa splendens</i> .....	Delipavlov, 1976

**D. Nomenclatural changes**

*Peucedanum oligophyllum* (Griseb.) Vandas subsp. *aequiradium* (Velen.) Tutin, Feddes Repert. 79: 62 (1968) — should be *Peucedanum oligophyllum* subsp. *aequiradium* (Velen.) Achtarov, Izv. Bulg. Bot. Druž. 9: 65 (1943).

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