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Current State of Iris L., Subgenus Iris (Iridaceae) in Bulgaria

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Abstract. The distribution of genus *Iris* subgenus *Iris* was presented and notes of its taxonomy were given in the paper. Based on the critical processing of the collections in the national herbaria (SOM, SOA and SO), the literature sources, and our field observation we have produced distribution maps. New chorological data are reported for *Iris reichenbachii*, *I. suaveolens*, and *I.* ×*germanica*. *Iris mellita*, whose taxonomical status is under investigation, was reviewed as a synonym of *I. suaveolens*. The distribution of *I. aphylla* in Bulgaria was not confirmed until now, with the current collection for the Bulgarian flora.

Key words: chorology, herbarium collections, subgenus *Iris*, taxonomy.

Introduction

Genus *Iris* L. comprises approximately 300 species, native to Europe and Asia (Rodionenko, 1987). The interest in the genus has existed from a long time ago, because of the diversity of forms and colors, the wide ornamental cultivation, and the presence of medicinal plants. The most accepted classification systems divide the rhizomatous European species into two subgenera. The typical subgenus *Iris* unites the species with bearded falls (external perygon leaves). Subgenus *Limniris* (Tausch) Spach contains the species with glabrous falls (Mathew, 1981; Rodionenko, 1987). Despite the existence of intensive literature taxonomy investigations, the genus *Iris* is still considered to be problematic from the taxonomical viewpoint. The *Iris* species, especially the members of subgenus *Iris*, are difficult to be distinguished due to the lack of clearly definitive morphological characters and the presence of great variability.

Following the Bulgarian authors, the genus is represented by 9 or 10 species in wild, and 2 cultivated species (Stojanov & Stefanov, 1924; 1933; 1948; Stojanov et al., 1966; Delipavlov & Cheshmedzhiev, 2003; Assyov & Petrova, 2012). The genus is taxonomically developed in volume II of Flora Reipublicae Popularis Bulgaricae (Radenkova, 1964). No summary floristic examinations of the subgenus have been conducted over the last 70 years. The information about the taxonomy, chorology, and conservation status of the members of genus *Iris* in Bulgaria is outdated and indisputably needs revision and actualization. The review of the taxonomical literature shows that the representatives of genus *Iris* have not been an object of purposive studies in Bulgaria for decades past. During the last decades, the taxonomy

of the genus *Iris* has changed. The molecular approaches proved that *Iris* s.l. contains 23 separate genera (Mavrodiev et al., 2014).

The present study is based on literature data, reviewed herbarium specimens, and field research. The goal is to update and generalize the existing information about the Bulgarian representatives of genus *Iris* subgenus *Iris*.

Materials and Methods

The field studies on the status of the localities, accenting on the critically targeted species from the investigated subgenus, were taken during 2010-2021. The reviewed herbarium samples of genus *Iris* subgenus *Iris* L., deposited in Bulgarian herbaria, were generally 494 in number, respectively 301 in number till now (incl. the deposited in the present study) from the Herbarium of Agricultural University – Plovdiv (SOA), 76 in number from the Institute of Biodiversity and Ecosystem Research – Bulgarian Academy of Science (SOM), and 117 in number from the Biological Faculty – Sofia University (SO). Additionally, the GBIF entries from the herbaria MNHN (Chagnoux, 2021), W (Natural History Museum, Vienna, 2019), BRNU (Masaryk University, Department of Botany and Zoology, 2019), G (Conservatoire et Jardin botaniques de la Ville de Genève - G, 2016), as well as from recent photo observations (Affouard et al., 2020; de Vries & Lemmens, 2018-2019; Ueda, 2021) were reviewed. The collections of our field studies were deposited in SOA. Separated by species, the collections from Bulgaria are represented as follows: *Iris reichenbachii* (289 samples), *I. suaveolens* (125 samples), *I. pumila* (44 samples), *I. variegata* (92 samples), and *I.* × *germanica* (14 samples). All reviewed data from the herbarium specimens and literature were imported to the electronic documentation system in the Herbarium of Agricultural University – Plovdiv (SOA) (Stoyanov, 2009) and were exported to chorological maps. The floristic regions were described and numbered according to Jordanov (1966) as follow: Black Sea Coast (1), Northeast Bulgaria (2), Danubian Plain (3), Forebalkan (4), Balkan Range (5), Sofia region (6), Znepole region (7), Vitosha region (8), West Frontier Mts (9), the Valley of Strouma River (10), Mt Belasitsa (11), Mt Slavyanka (12), the Valley of River Mesta (13), Pirin Mts (14), Rila Mts (15), Mt Sredna Gora (16), Rhodopi Mts (17), Thracian Lowland (18), Tundzha Hilly Country (19) and Mt Strandzha (20). The subregions were marked with letters: **w** – western; **s** – southern; **e** – eastern; **n** – northern and **c** – central. The same codes were shown on the maps. The oldest herbarium materials have been labeled without exact geographic coordinates, but they contain pretty enough geographical information. The coordinates of them were taken from topographic maps. All coordinates are recalculated to UTM 10×10 km squares following the accepted standard (Kozhuharov et al., 1983) and represented in the text as MGRS codes.

Results and Discussion

The chorological information, according to the latest field investigation and relevant literature dates, was compared with the existing herbarium collections from the territory of Bulgaria (Appendix 1). The representativeness of the collections is summarized in Table 1.

Iris reichenbachii Heuff. (Fig. 1A). syn.: *Iris balkana* Janka; *I. bosniaca* auct. non Beck.

The species is a Balkan endemic. The native distribution on the Balkan Peninsula is on the territory of Albania, Bulgaria, Greece, Eastern Aegean islands, Serbia, N. Macedonia, Bosnia and Herzegovina, Croatia, Slovenia (Webb & Chater, 1980; Dimopolous et al., 2018-2019).

The data from Serbia (Adamović, 1901; Randolph & Rechinger 1954; Stepanović-Veselič, 1976; Urumov, 1905a), Republic of N. Macedonia, the northern part of Greece (Dimopoulos et al., 2018-2019; Randolph & Rechinger, 1954), were confirmed with samples from Bulgarian herbaria (SOA, SOM).

Table 1. Representativeness of the *Iris* collections in the Bulgarian herbaria – number of specimens vs. represented UTM squares.

Species name	SOA		SOM		SO	
	Number of specimens	UTM squares	Number of specimens	UTM squares	Number of specimens	UTM squares
I. reichenbachii	159	36	78	33	41	29
I. suaveolens	44	20	32	16	30	26
I. aphylla	9	2	-	-	-	-
I. pumila	28	18	7	7	8	7
I. variegata	62	18	3	3	22	18
I. ×germanica	4	3	1	1	-	-

The distribution of this species is wider than known from the literature. The floristic records from the literature are from the following regions: **1s** (Tashev et al., 2016), **3** (Assyov & Petrova, 2012), **4w** (Assyov & Petrova, 2012; Randolph & Rechinger, 1954), **4e** (Urumov, 1900, 1901a, 1898), **5w** (Assyov & Petrova, 2012; Ueda, 2021; Urumov, 1905b), **5c** (Assyov & Petrova, 2012; Popova & Cheschmedjiev, 1975; Randolph & Rechinger, 1954; Urumov, 1901b), **5e** (Assyov & Petrova, 2012, Randolph & Rechinger, 1954), **6** (Randolph & Rechinger, 1954; Toshev, 1903); **7** (Apostolova-Stoyanova & Stoyanov, 2009; Assyov & Petrova, 2012; Ueda, 2021; Urumov, 1905b), **8** (Assyov & Petrova, 2012; Ueda, 2021). **10s** (Dimitrov & Vutov, 2013), **9**, **12**, (Assyov & Petrova, 2012), **14** (Assyov & Petrova, 2012; Ueda, 2021) , **15** (Assyov & Petrova, 2012), **17** (Randolph & Rechinger, 1954) – **17w** (Assyov & Petrova, 2012), **17c** (Assyov & Petrova, 2012; Popova & Cheschmedzhiev, 1975; Randolph & Rechinger, 1954), **17e** (Assyov & Petrova, 2012), **18** (Randolph & Rechinger, 1954). The species has not been reported till now for **10n**, **11**, **19**. There is no chorological data about the floristic regions 2, 13, 16 and 20. The vertical distribution of the species is up to 2900 m above sea level.

In the herbarium collections were found samples signed as hybrids *Iris reichenbachii* × *I. aphylla* (SOA 30430, 25904, 30431, 30436, 30905, 25907, 30252). These samples have been collected around the city of Kardzhali (17e) and the town of Peshtera (17w), then grown in the former botanical garden. Our revision assigned them to *Iris reichenbachii*. In SOA have been deposited 3 herbarium specimens signed as *Iris reichenbachii* var. *intermedia* Česchm. – "Rhodopi centralis, in saxosis supra urbeum Asenovgrad", SOA holotypus: 029276, isotypus: 025909, 047202.

Iris suaveolens Boiss. & Reut. (Fig. 1B). Syn.: *I. mellita* Janka.

This species is very mutable, according to the scape, and the size and color of the flower. As a result of this variation, many taxonomical interpretations can be found.

Comparatively a little count of species has been deposited under the name *I. suaveolens* (e.g. SOA 14562; SOM 1401, 1402, 1410, 1901, 1911; SO 101663).

The largest amount of materials under the name *I. mellita* are deposited in SO. Single herbarium specimen is deposited in SOA as a new variety – *I. mellita* var. *macrantha* Stoj. (SOA 02286, the region of Petrich). We accept these data as part of the circumscription of *I. suaveolens.*

Iris suaveolens is reported for the following floristic regions: **1** (Assyov & Petrova, 2012; Davidov, 1905b; Randolph & Rechinger, 1954; Ueda, 2021), **2** (Davidov, 1905b, Urumov, 1901), **5e**, **10** (Assyov & Petrova, 2012), **11** (Assyov & Petrova, 2012; Topalova, 2006), **17** (Randolph & Rechinger, 1954) – **17w** (Chagnoux, 2021), **17e** (Assyov

& Petrova, 2012); **18** (Assyov & Petrova, 2012; Dimitrov, 2014; Randolph & Rechinger, 1954), **19** (Assyov & Petrova, 2012; Toshev, 1903), **20** (Assyov & Petrova, 2012; Gussev et al., 1998).

The species has been noticed for regions **3** (Popova & Cheschmedjiev, 1975), **13** (Assyov & Petrova, 2012; Goranova et al., 2013) and **14** (Assyov & Petrova, 2012). The data of the herbarium materials added the regions **5w**, **5c**, **7**, and **17c**. The species has not been reported or noticed for regions 4, 6, 8, 9, 12, and 15.

The type specimen of *I. suaveolens* (G-G-173989/1 - !), signed as "Bulgarie – Kustendje", has been collected near the city with the recent name Konstantsa, North Dobroudja, today in the territory of Romania. The species has been reported with exact data for Serbia (Adamović, 1901; Randolph & Rechinger, 1954; Stepanović-Veseličić, 1976), Greece (Dimopolous et al. 2018-2019; Randolph & Rechinger, 1954), Turkey (Dane et al. 2009; Randolph & Rechinger, 1954), Republic of N. Macedonia (Randolph & Rechinger, 1954), Romania (Randolph & Rechinger, 1954; Prodan & Nyarady, 1966). Vertically the species is distributed up to 1362 m above sea level.

Iris aphylla L. (Fig. 1C).

Iris aphylla is a steppe species. It is classified as exclusively rare and endangered in the red lists of many European countries (Allen et al. 2014; Holub & Procházka, 2000; Kaźmierczakowa & Zarzycki, 2001; Ludwig & Schnittler, 1996; Maglocky & Feráková, 1993). During the last years, the species is a subject of monitoring programs, with conclusions for the decreasing strength of the populations (Wróblewska et al., 2003).

This species is known as continental and subcontinental element (Borhidi, 1995). The recent distribution of *I. aphylla* covers Ukraine, Central and Southern Russia, Caucasus, and Minor Asia. The insulated populations of this species in Poland, Belarus, Germany, Czech Republic, Slovakia, Hungary, and Romania appear as a terminal border of the geographic distribution (Kaźmierczakowa & Zarzycki, 2001; Webb & Chater, 1980). For the Balkans, it is noticed only in isolated localities in Croatia, Romania, and Serbia (Obradović et al., 1986; Prodan & Nyarady, 1966; Purger et al., 2008). The species is indicated as critically endangered according to the Red lists and Red Data Book (Ivanova, 2009; 2011).

Iris aphylla has been reported for a first time for Bulgaria (Cheschmedzhiev, 1967) for the region of Zhelezni-Vrata and Kardzhali, and following these data is included in the Red Data Book (Ivanova 2011). The collections of SOA consist of 12 materials, determined as *I. aphylla*.

The locality "Zhelezni-Vrata train stop" is highly damaged by anthropogenous factors. After the last collection of the species from the only known locality for the country, more than 50 years ago, *I. aphylla* has not been found (Ivanova, 2011). The slope reported as a locality of *I. aphylla* has been used as a stone carrier. The same authors determine some specimens as *I.* ×*germanica* (SOA, 45790) on the locality of *I. aphylla*. Our detailed field research, as well as investigation of the Herbaria, showed that there are no recent data to confirm the species, and the status of the species could be suggested as "Regionally extinct". Samples of this species are not deposited in SO and SOM. On the grounds of the represented above, the occurrence of *I. aphylla* is considered as doubtful in the recent Bulgarian flora and the current botanical survey did not confirm its distribution.

Iris pumila L. (Fig. 1D).

This species has Pontic-Pannonian distribution: Austria, Bulgaria, Croatia, Serbia, Romania, Czech Republic, and Slovakia (Koca, 2003; Purger et al., 2008).

The species is noticed as distributed in the whole country (Assyov & Petrova, 2012), up to 1000 m above the sea level. The exact

records in the literature were found for the following floristic regions: **1n** (Urumov, 1901a; Davidov, 1905b; Ueda, 2021); **2** (Urumov, 1901a, 1901b, 1904; Davidov, 1904, 1905b); **3** (Popova & Cheschmedzhiev 1975), **4e** (Neichev, 1903; Urumov, 1897, 1898, 1904; Randolph & Rechinger, 1954); **5c** (Urumov, 1904), and noticed without herbarium materials for **4w** (Urumov, 1897) , **7** (Apostolova-Stoyanova & Stoyanov, 2009), **9** (Urumov, 1904), **16w** (Glogov & Pavlova, 2018).

Despite the information for the whole country in the floristic summaries (Delipavlov & Cheschmedzhiev, 2003; Assyov & Petrova, 2012), in the herbaria were not found samples from the regions **4w, 5w**, **5e**, **6**, **8**, **9**, **11**, **12**, **13**, **14**, **15**, **16**, **17w**, **17e** and **20**. The vertical distribution of the species is up to 760 m above sea level.

Iris variegata L. – (Fig. 1E).

The natural distribution area covers Central and South-Eastern Europe – Austria, Czech Republic, Germany, Hungary, Bulgaria, Romania, Serbia, and Slovakia, east to Ukraine, and naturalized in Italy and Switzerland (Dimopolous et al., 2018-2019; Webb & Chater, 1980). This species is widely cultivated as ornamental.

The species is noticed for the whole territory of Bulgaria (Assyov & Petrova, 2012). Exact localities are reported in the literature for floristic regions: **1n** (Davidov, 1905b), **2** (Davidov, 1904, 1905b; Urumov, 1901a, 1904, 1905a), **3** (Davidov, 1904; Urumov, 1901a), **4w** (Urumov, 1905a), **4e** (Randolph & Rechinger 1954; Urumov, 1897, 1898), **5w** (Popova & Cheschmedzhiev, 1975; Urumov, 1905b), **6** (de Vries & Lemmens, 2019; Randolph & Rechinger, 1954), **7** (Affouard et al., 2020; Apostolova-Stoyanova et al., 2009; Urumov, 1905b; Ueda, 2021), **8** (Urumov, 1905b), **17c** (Popova & Cheschmedjiev, 1975), **18** (de Vries & Lemmens, 2019; Randolph & Rechinger, 1954; Toshev, 1903).

The herbarium data add exact localities for 6 regions. The herbarium data can not confirm the distribution in the regions: **9**, **10**, **11**, **12**, **13**, **14**, **17w**, and **20**.

In the known literature the vertical distribution has been noticed up to 2900 m above sea level (Assyov & Petrova, 2012). The confirmed vertical distribution of this species is between 10 and 1217 m above sea level.

Iris ×germanica L. (Fig. 1F). syn. *Iris florentina* L.

Iris ×germanica, including *I. florentina*, is distributed in SW Europe, Iberia, France, EC Europe, Turkey, Palestine, NW Africa (Dimopolous et al., 2018-2019; Seidemann, 2005). It is native in Europe, also cultivated ornamental species.

Following the data of Urumov (1898a, b) and Davidov (1915), in the country are known natural populations of this species in **4e** – the region of Lovech, Veliko Turnovo, and Gorna Oryahovitsa.

Wild populations, probably garden escapes, could be found in many regions of the country. In the national herbaria are deposited samples from 3 floristic regions. A recently published observation, probably of a garden escape, has been found from **15.** 34TFM96. Rila Monastery, 29.05.2005. Despite the wide distribution, the specimens under the name *I. ×germanica* in the herbarium collections are found only 5 exsiccates. Only one sample is determined as *I. florentina* (SOA 44729, cultivated).

Conclusion

The observed 564 samples of genus *Iris*, subgenus *Iris* display vertical distribution up to 2900 m above sea level. The highest altitude for *I. reichenbachii* is about 2900 m. *Iris suaveolens* and *I. variegata* reach up to 1500 m. *Iris pumila* can be found only in the low parts of the country, up to 800 m. The distribution of *I. ×germanica* is up to 1000 m, as this is related to its secondary distribution.

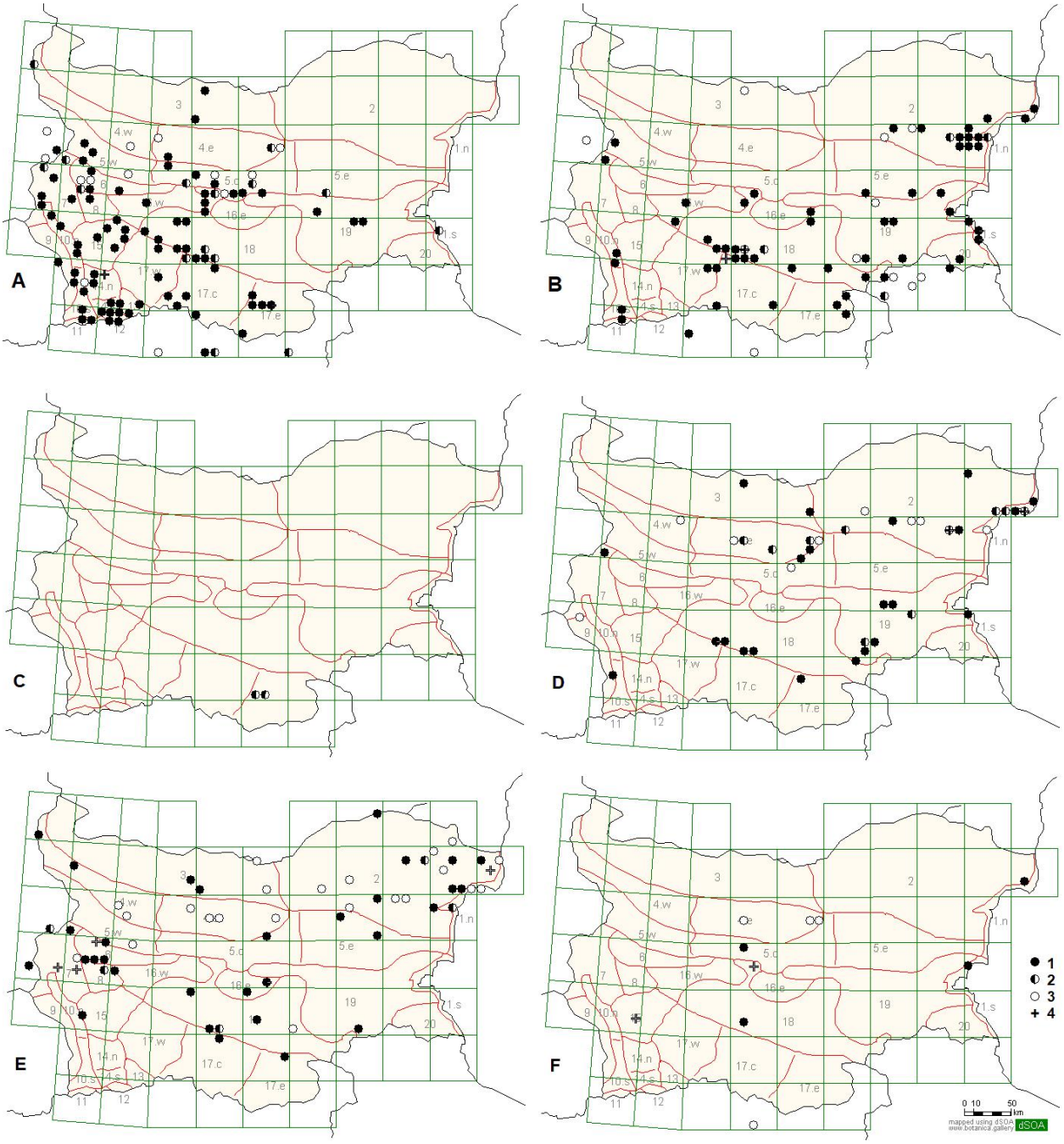

Fig. 1. Distribution maps: A – *Iris reichenbachii*; B – *I. suaveolens*; C – *I. aphylla*; D – *I. pumila*; E – *I. variegata*; F – *I.* ×*germanica*; 1 – localities of herbarium specimens; 2 - confirmed localities with herbarium specimens; 3 – reported localities from the literature; 4 – additional confirming records of observations without revised herbarium specimens.

According to the UTM grid (10x10 km), the most distributed species is *Iris reichenbachii*, represented by 60 squares, *I. suaveolens* by 48 squares, *I. variegata* by 35 squares, *I. pumila* by 23 squares, and *I.* ×*germanica* by 7 squares. The richest regions are Black Sea Coast, Balkan Range, and Thracian lowland – 5 species. Regions with 4 species are Danubian Plain, Znepole region, Rhodope Mts, and Toundja Hilly Country. Regions

with 1 species are Slavyanka, the Valley of Mesta River, Pirin, and Mt Strandzha. Regions without representatives of West Frontier Mts and Mt Sredna Gora (east).

Iris aphylla is currently known only from a single locality in Bulgaria (65 years ago). It is not confirmed with recent literature data, terrain study, and herbarium samples, and to be still considered unverified.

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Appendix 1. Studied herbarium specimens of genus *Iris*, subgenus *Iris* with Bulgarian origin. Abbreviations: Collector's names (in brackets): Aht. – B. Akhtarov; Ch. – I. Cheschmedhiev; Dav. – B. Davidov; Delip. – D. Delipavlov; D.Dim. – D. Dimitrov; D.S. – D. Stoyanov; I.K. – I. Kovachev; I.P. – I. Penev; Jord. – D. Jordanov; Kit. - Kitanov; KS – K. Stoyanov; Mar. – Y. Marinov; Mrkv. – I. Mrkvička; Neic. – I. Neichev; Pop. – M. Popova; Stoj. – N. Stojanov; Stef. – B. Stefanov; Rad. – I. Radenkova; S.G. – S. Georgiev; S.Dim. – S. Dimitrov; Strib. – V. Stribrny; T.G. – T. Georgiev; TR – T. Raycheva; Urum. – I.Urumov; V.V. – V. Velchev; Vih. – N. Vihodzevsky; Z.B. – Zh. Barzov. The herbarium specimens from L, MA, MW, P, and PRK are studied on photo scans via GBIF.org. New regions marked with *.

***Iris reichenbachii* Heuff.** (sub *I. bosniaca* Beck signed with index 1).

1s: **35TNG68**: Primorsko, 6.05.2014 (*A. Tashev*) SOM 171895; ***3***: **35TLJ00**: Pleven, 5.1996 (*B. Assyov*) SO 98549; **35TLJ13**: Shiyakovo, 04.1963 (*Ch.*), SOA 45737; ***4w***: **34TFP15**: Vrashka-Chouka peak, 16.04.1966 (*Ch.*), SOA 045721, 045732; 02.05.1975 (*Y.Koeva*) SO 91200, 95635; ***4e***: **35TLH87**. Veliko-Turnovo, 1896 (*Urum.*) SOM 14189; ***5w***: **34TFN75**: Dedina-Glava peak, 1.05.1920 (*Stoj. & Stef.*) SOA 2281; Belidie-Han, 05.1980 (*E. Bozhilova*) SO 91824; **34TFN77**: Petrohan, 5.05.1965 (Ch.) SOA 045731, 045736, 045738; 35TKH76: Glozhene (*Urum.* det. *Dav.*) SOM 14274; **34TFN86**: Chepurna peak, 05.1994 (*D.Dim.*) SO 98609; ***5c***: 1897 (Strib. det. Velenovsky sub *I. r.* var. *tubifera*, holotypus) PRC 451886; **35TKH93**: Kozyata-Stena hut, 1562 m, 4.04.1958, SOA 04386, 04387, 04388; 5.06.1962 (*Ch.*) SOA 45722; 6.05.1963 (*Ch.*) 045739; 19.05.1965 (*Ch.*) SOA 45734; 30.04.1965 (*Ch.*) SOA 045573, 034367; 30.05.1968 (*Ch.*) SOA 30191, 30192; **35TLH04**: Kozyata-Stena peak, 1600 m, 24.06.1930 (*Stoj.*) SO 13446; 14.06.1995 (*T.Meshinev*) SOM 152979; **35TLH12**: Sopot, 04.05.1976 (*S.Dim., Delip. & Ch.*) SOA 033589; 16.05.1976 (*Pop.*) SOA 032561; **35TLH22**: Karlovo, 1902 (*Urum.* det *Dav.*) SOM 14186, 14187; **35TLH23**: Kaloferski-Koupen peak, 6.08.1923 (Jord.) SO 13563; **35TLH42**: Kuru-Dere river, 28.06.1965 (*Delip.*) SOA 045664, 045667; **35TLH52**: Ak-Dere, 9.06.1965 (*Ch.*) SOA 045730; **35TLH63**: Malousha peak, 14.05.1898 (*Neic.*) SOM 14269; **35TKH75**: Teteven Balkan Mt, 1904 (*Urum.* det. *Dav.*) SOM 14276; **35TLH72**: Stara-Reka locality, 29.04.1939 (*A.Yurkovskiy*) SOM 14194; ***5e***: **35TMH42**: Tyulbeto locality, N42.71964 E26.36308, 1038 m, 19.05.2020 (*I. Kostadinov*) SOA 062750; Sinite-Kamani locality, 2.05.1962 (*V.V.*) SOM 105141; Sliven (*J. Wagner*) P 02163558; ***6***: **34TFN72**: Lyulin Mt, 2.05.1901 (*A. Toshev*) SOM 14239; 22.05.1938, SOM 14231 (sub *I. virescens* var. *bosniaca* Beck); **34TFN75**: Tsrucklevtsi, N42.947369 E23.131372, 794 m, 23.05.2020 (*TR & KS*) SOA 062768; **34TFN84**: Dobroslavtsi, 1912 (*J. Kelleler* det *Rad.*) SOM 14076; **34TGN12**: Aprilovo, 19.05.1982 (*D. Stoyanov*) SO 90972; ***7***: **34TFN30**: Silni peak, 18.06.1933 (Aht,) SOM 14183; 1000 m, 23.05.2009 (*A.Assenov*) SO 105829; **34TFN43**: Paramoun Mt, 29.05.1958 (*I.P. & Vih.*) SO 32104[1]; **34TFM49**: Risha Mt, 26.05.1957 (*A. Yanev*) SO 102986; **34TFM58**: Gorna-Koznitsa, 8.05.1979 (*Ch.*) SOA 35865; **34TFN31**: Treklyano, 13.05.1939 (*K. Stoikov*) SOM 14229; **34TFN72**: Raylovo-Gradishte locality, 16.09.1947 (*I. Ganchev*) SO 83707; **34TFN34**: Zdreloto locality, 1904 (*Urum.* det. *Dav.*) SOM 14245[1]; **34TFN43**: Lyubash Mt, 1200 m, 24.05.1987 (*V. Nikolov*) SOM 146599; **34TFN55**: Chepan, 28.05.1932 (det. *Aht.*) SOM 14247; **34TFN61**: Ostritsa peak, 1100 m, 10.05.1936 (*Aht.*) SOM 14227; 950 m, 20.05.1951 (*B. Zhelezova* det. *Aht.*) SOM 14230[1]; 850 m, 05.1940 (Stoj.) SO 13500; 15.05.1941 (*Aht.*) SOM 14184; 18.05.1941 (*Aht.*) SOM 14232[1]; 1000 m, 24.05.1955 (Vih.) SO 83708; 1100 m, 26.05.1957 (*Stoj. & Kit.*) SO 13447; 2.05.2005, SO 103401; ***8***: Vitosha, subalp., 1912 (Urum.) SOM 14236[1]; 05.1920 (Stoj.) SOA 2250; (Jord.) SO 13451; 05.1922 (Strib.) SOA s.n.; **34TFN82**: Boyanski waterfall, 1895 (*S.G.*) SO 13456; 3.06.1923 (*Jord.*) SO 13449; Dol Rakovets locality, 05.06.1957 (*G. Dimitrov*) SO 13564; Dragalevtsi (*A. Drenovski*) SOM 14233; 05.1902 (Mrkv.) SOM 14228; 05.1905 (*Strib.*)

SOM 14235; 15.05.1920 (*Aht.*) SOM 14238, 14240[1]; 24.05.1936 (Jord.) SO 13452; Knyazhevo, 05.1890 (*S.G.*) SO 13450; ***9***: **34TGM20**: Delchevo border post, 14.05.1968 (*V.V.*) SOM 157568; ***10s***: **34TFM72**: Kresnensky-Prolom, 30.03.1920 (*Tsar Boris III*) SOM 14234, 14249[1]; Tisata reserve, 5.05.2007 (*D.Dim.*) SOM 164000; **34TFM73**: Stara-Kresna station, 5.05.1930 (*N.Fenenko* det. *Stoj.*) SOM 14250[1]; **34TFM81**: Kresna Station, 19.04.1964 (*Ch.*) SOA 045686; 34TFL89: Malak-Kozhukh hill, 14.05.1992 (*D.S.*) SO 96019-96020; ***10n****: **34TFM75**: Blagoevgrad, 600 m (*N. Fenenko* det. *Stoj.*) SOM 14185 (sub *I. chamaeiris* Bert. var. *balcana* Beck); ***11****: **34TFL88**: Ruzhdack, 16.07.1964 (*Ch.*) SOA 045682; N41.403606, E23.265164, 210 m, 15.04.2021 (*Mar.*) SOA 063105; **34TFL98**: Ruzhdack, N41.396207 E23.274501, 311 m, 15.04.2021 (*Mar.*) SOA 063104; ***12***: 28.05.1933 (*A. Drenovski* det. *Rad.*) SOM 14075; **34TGL09**. Sveti-Iliya locality, 26.04.1902 (*I. Bondev* det. *Rad.*) SOM 124533; **34TGL18**: Petrovo, 6.05.1992 (*I. Pashaliev*) SOM 151590; Suhoto-Ezero locality, 1800 m (*D.S.*) SO 92425; **34TGL19**: Gorno-Spanchevo, N41.5145 E23.5412778, 764 m, 1.04.2012 (*TR*) SOA 061728; **34TGL28**: Koynareto – Hambar Dere, 1700 m, 20.07.1983 (*Bozhlova, Tonkov & D.S.*) SO 91935; Hambar Dere locality, 04.05.1964 (*Ch.*) SOA 045710, 045719; Parilski-Dol locality, 8.08.1974 (*Ch.*) SOA 45760; 5.06.1983 (*R. Krusheva*) SO 91857; 19.05.1988 (*N. Valyovska*, det. *D. Peev*) SOM 147435; Nova-Lovcha, 17.06.2006 (*I. Pashaliev* det. *D.Dim.*) SOA 151589 (sub *I. r.* var. *balcanica* f. *bosniaca* (Beck) Acht.); **34TGL29**: between Lovcha and Paril, 6.05.1980 (*Ch.*) SOA 039619; 13.05.1981 (*Ch.*) SOA 045050; **34TGL39**: Pazlaka locality, 15.05.1970 (*Delip.*) SOA 030623; 25.05.1984 (*Ch.*) SOA 043958; ***14n***: **34TFM92**: Vihren peak, 1921 (*Kelleler* det. *Dav.*) SOM 14272, 14275[1]; **34TFM93**: Yavorov hut, 25.04.1976 (*I.K.* det. *Ch.*) SOA 047761; ***14s***: **34TGM10**: Baba peak, 1900 m, 1.06.1941 (*Kit.* & *Stoj.*) SO 93579; **34TGM20**: Pilentseto peak, 1522 m, 20.08.1988 (*D.S.*) SO 93912; ***15***: 06.1894 (*Strib.*) P 01840847; 30.05.1955, 1340 m (*I. Bondev*) SOM 106174, L 1472722; MW 0769512, MA 01-00192473; **34TFM76**: Rila, 1.05.1984 (*D.S.*) SO 92436; **34TFM97**: Droushlyavitsa river, 24.06.1974 (*Delip. & Ch.*) SOA 45748, 45749; **34TGM08**: Dospey, 1000 m, 20.05.1909 (*Dav.*) SOM 14253, 14259-14260, 14261 (rev. sub var. *davidofii* Akht.); **34TGM19**: Dragoushnovo, 950 m, 13.05.1912 (*Dav.*) SOM 14252; **34TGM27**: Ajran-Dere, 2150 m, 18.08.1911 (*Dav.*) SOM 13241, 14242 (sub *I.r.* var. *bosniaca* Beck); 18.08.1911 (Dav.); **34TGM28**: Dolna-Banja, 650 m, 24.04.1912 (Dav.) SOM 14254, 14256-14258, 14262-14264; ***16w***: **34TGN41**: Poibrene, 1904 (*Urum.* det. *Rad.*) SOM 14123; **35TLH10**: Voden-Kamak locality, 4.05.1974 (*Pop.*) SOA 032583, 32602; **35TLH11**: Mihiltsi, 22.04.1976 (*Pop.*) SOA 034177; ***17w***: **34TGM48**: Sestrimo, 9.05.1931 (*Trifonov*) SOM 14248; **35TKG63**: Beglika, 06.1956 (*S. Kozhukharov*) SO 13566; **35TKG66**: Tsepina station, 28.04.1978 (*Delip. & Ch.*) SOA 035278, 035279, 035280; **35TKG67**: Eli-Dere (Vetren-Dol), 14.04.1914 (*Mrkv.*) SOA 19050; ***17c***: **35TKG71**: Тешел, 4.06.1974 (*J.Koeva*) SO 86798; **35TKG80**: Trigrad, 1600 m, 31.07.1940 (*Jord.*) SO 13567; 26.06.1960 (*Ch.*) SOA 045695, 045725-045728; **35TKG91**: Bedenski-Bani, 15.05.1972 (*Petkova*) SO 35712; **35TKG95**: Oustina, 28.05.1967 (*I.K.* det. *Ch.*) SOA s.n.; Manastira locality, 10.08.1963 (Ch) SOA 04391; 13.05.1966 (*I.K.* det. *Ch.* sub *I. aphylla* x *I. reichenbachii*) SOA 030430, 030435-030436, 030905, 034671-034675; 30.05.1966 (*Ch.*) SOA 030252, 030423-030426, 030428-030429, 030432, 034663-034665, 034667-034669; 034677-034680, 034682, 034685; 17.04.1967 (*I.K.* det. *Ch.*) 025906-025907, 030252; 05.05.1968 (*Ch.*) SOA 033603; N42.02534 E24.54629, 812 m, 24.03.2019 (*TR*) SOA 062594; 30.04.2019 (*TR & KS*) SOA 063120; **35TLG15**: Kaloyanov peak, N42.04393 E24.70802, 637 m, 28.09.2018 (*TR & KS*) SOA 062434; Kouklen, 16.05.1966 (*Ch.*) SOA 045699; **35TLF09**: Ouhlovitsa cave, 19.05.1985 (*Pop.*) SOA 045025, 045030-045032; **35TLG05**: Hrabrino, 23.04.1891 (*S.G.*) SO 13565; **35TLG24**: Bachkovo, 28.04.1888 (Strib.) SO 13455; Bachkovo Monastery, 5.04.1915 (Mrkv. det Dav.) SOM 14266[1]; 7.05.1986 (*Pop.*) SOA 044835; Dobrostan, 1220, 1905 (*Urum.*) SOM 14273 (sub *I. r.* var. *tenuifolia* Vel.); Lale Bair locality 6.05.1975 (*Ch.*) SOA 033759-033760, 045740; Koru-Dere

locality 05.1910 (*Strib.*) SOM 14179 (sub *I. r.* var. *tenuifolia*), 14268; 11.04.1915 (*Mrkv.* det. *Dav.*) SOM 14265; 30.04.1968 (Ch.) SOA 034349; Sveta-Petka Monastery, 560 m, 05.1915 (*Strib.*) SOM 14271 (sub *I. r.* var. *tenuifolia* Vel.); **35TLG25**: Asenovgrad (Stanimaka), 1891 (*Strib.*) PRC 451887 (sub *I. r.* var. *tenuifolia* Vel.); 05.1893, SOA 14567, 14569; 05.1894 (*Strib.*) P 02159332, 02159329, L 1472312[1]; 6.06.1896 (Strib.) SO 13448; 05.1899 (*Strib.*) SO 13562, P 01840848; 04.1903 (*Strib.*) MA 01-00023208 (sub *I. r.* var *tenuifolia* Vel.); 05.1906 (*Strib.*) P01793712 (sub *I. r.* var. *tenuifolia* Vel.); 04.1914 (*Strib.*) SOA 14564, 19049; (*Mrkv.*) SOA 19051, 27.04.1914 (*Mrkv.*) SOM 14180 (sub *I.r.* var. *tenuifolia* Vel. locus classicus), 14192[1]; (*Aht.* det. *Dav.*) SOM 14190, 14267[1]; 11.04.1915 (*Strib.*) SOM 14270[1]; 21.04.1919 (*Tzar Boris III* det *Dav.*) SOM 14178[1], 14193[1]; 2.04.1966 (*Ch.*) SOA 045696; 17.04.1968 (*Ch.*) SOA 030190; 30.04.1968 (*Ch.*) SOA 025908, 029276 (sub *I. r.* var. *intermedia* Češchm., holotypus), 025909 (sub *I. r.* var. *intermedia* Češchm., isotypus), 047202 (sub *I. r.* var. *intermedia* Češchm., isotypus); 04.05.1975 (*Ch.*) 034351; 26.04.1989 (Delip.) 045309[1]; Anatema locality, 8.04.1967 (*Ch.*) SOA 04389-04390, 045672, 045743, 045745-045746; 17.04.1968 (*Ch.*) SOA 030190, 030433-030434 (sub *I. r.* f. *balcana*), 034348 (sub *I. r.* f. *balcana*); N41.99099 E24.87531, 315 m, 28.04.2020 (*TR & KS*) SOA 062754; N41.9907 E24.88458, 640 m, 28.04.2019 (*KS*) SOA 063005, 063006; N41.9891667 E24.8772222, 500 m, 1.05.2020 (*TR & KS*) SOA 062755; ***17e***: **35TLF57**: Chakalarovo, 25.05.2000 (*A.S.Petrova*) SOM 155586; **35TLG60**: Kardjali, 04.05.1937 (Stoj.) SO 13561; 25.06.1968 (*Ch.*) SOA 030431 (sub *I. reichenbachii* x *I. aphylla*), 45785-45786, 47762; Momchilgrad – Kardjali, 8.05.1964 (*Ch.*) 045741-945742; **35TLG80**: Golemiya-Sipey locality, N41.6292639 E25.6134851, 428 m 28.04.2021 (*V. Trifonov* det. *TR & KS*) SOA 063122, 063126-063127, 063167; ***18***: **35TKG86**: Novo-Selo, N42.1030556 E24.4586111, 401 m, 3.06.2010 (*KS*) SOA 062495; **35TKG89**: Smilets, 20.04.1977 (*Pop. & Ch.*) SOA 031256-031257, 031258; **35TKG96**: Kourtovo-Konare, 20.06.1995 (*D. Georgiev*) SO 199158; 35TKG99: Dragomir, 08.1898 (*S.G.*) SO 13560; **35TLG16**: Plovdiv (cult.), 5.05.1973 (*Pop.*) SOA 029646-029647, 5.03.2018 (*Ch.*) SOA 062408; ***19**: **35TMG79**: Yambolski-Bakadjik ridge, 5.05.1965 (*Ch.*) SOA 045229, 45687; **35TMG89**: Voynishki-Bakadjik ridge, 7.05.1965 (*Ch.*) SOA 045665, 045667, 45681; **35TMH30**: Konjovo, 1891 (*J. Velenovsky*) PRC 451885.; Bulgaria, without data: 06.2021, SOA 14566; (A. Toshev) SOA 23587.

Iris suaveolens Boiss. & Reut. (sub "*I. rubromarginata mellita*" signed with index 1; sub "*I. mellita* Janka" signed with index 2):

1s: **35TNG59**: Kavatsite locality, 19.04.1975 (*Gerginov, Markova & Cherneva*) SOM 134213[2], L 1472899, MA 01-00210537, U 1343276; Sozopol, 8.05.1929 (*Jord.*) SO 13510[2]; **35TNG67**: Primorsko, 30.04.1965 (Ch.) SOA 045709[2]; **35TNG68**: Arkoutino locality, 19.04.1975 (Markova, Cherneva & Gerginov) 19.04.1975; Ropotamo Estuary, 22.07.1938 (*L. Tzvetkov & Vih.*) SO 13524[2]; **35TNH30**: Bourgas, 27.04.1921 (*Aht. det Dav.*) SOM 14018;.***1n***: **35TNH78**: Varna, 13.04.1903 (*Dav.*) SOM 14022[1], 14015[1], 14125[1]; 15.05.1904 (*Dav.*) SOM 14012[1], 14094[1], 14111[1]; **35TPJ10**. Kaliakra, 29.03.1901 (*Dav.*) SOM 14101; 26.03.1998 (*Delip.*) SOA 047882; 01.04.2002 (*Ch.*) SOA 049452; 24.04.2003 (*Ch.*) SOA 059898; Kalekayryak, N43.3891111 E28.4382778, 76 m, 14.04.2012 (*TR & KS*) SOA 061743-061746; **35TPJ21**: Yailata, N43.4333333 E28.5333333, 50 m, 16.05.2010. (*TR*) SOA 062264; N43.4355556 E28.5445, 11 m, 14.04.2012 (*TR & KS*) SOA 061742, 061747; ***2:*** Deli-Orman area, 14.02.1902 (*Dav.*) SOM 14109; **35TMH79**: Manastirtsi, 4.1918 (*Strib. det. Rad.*) SOM 14105[2]; **35TNH09**: Madara, 6.04.1966 (*A.Yanev*) SO 86633[2]; **35TNH38**: Provadia, 12.04.1902 (*Dav.*) SOM 14108[1], 14011[1], 14014[1]; 35TNH48: Devnya, 4.05.1926 (*Jord.*) SO 13509; **35TNH47**: Sindel, 04.1940 (*Stoj.*) SO 13551[2]; **35TNH57**: Avrenska Mt, 15.04.1901 (*Dav.*) SOM 14015, 23.04.1903 (*Dav.*) 14028; **35TNH58**: Beloslav, 12.04.1957 (*Jord.*) SO 13525; **35TNH59**: Kalimantsi 4.04.1902 (*Dav.*) SOM 14023; **35TNH67**: Priseltsi, 20.04.1903 (*Dav.*) SOM 14103; **35TNH68**: Aksakovo, 11.04.1901 (*Dav.*) SOM 14107[1]; Vladislavovo, 30.03.1903 (*Dav.* rev. *Rad.*) SOM 14104[2]; **35TNJ70**: Batovo, 14.04.1905 (*Dav.*)

SOM 14110; ***5w*:*** **34TFN67**: Komshtitsa, 17.06.2006 (*coll. G. Stoyanov* det. *D. Dimitrov*) SOM 162787; ***5c*:*** **35TLH22**: Karlovo, 1.05.1967 (Vih.) SO 13526[2]; ***5e***: **35TMH42**: Sliven, 28.04.1924 (*Jord.*) SO 13523-13514[2]; 30.05.1927 (Stoj. & Stef.) SOA 02285; **7*: 34TFN55**: Chepan, 23.05.192 (*Jord.*) SO 13523[2]; ***10s***: **34TFL89**: Malak-Kozhukh hill, 7.05.1964 (*Delip.*) SOA 045666[2]; ***10n***: **34TFM75**: Blagoevgrad, 5.05.1930 (*Stoj.*) SOA 02287[2]; ***11***: **34TFL88**: Petrich, 1929 (*Zhekov* det. *Stoj.*) SOA 02286; ***16w:*** **34TGM39**: Zaichy peak, 19.04.1891 (*S.G.*) SO13518[2]; **34TGN41**: Poibrene, 1904 (*Urum.* det. *Dav.*) SOM 14188; **35TLH11**: Mihiltsi, 359 m, 22.04.1976 (*Delip.*) SOA 38356[2]; ***17.*** Rhodopi Mts 1929 (*Stransky*) SOA 02284[2]; ***17w***: **35TKG74**: Nova-Mahala, 27.05.1895 (*Strib.*) P02163464; **35TKG84**: Ravnogor, 05.1952 SOA 04385[2]; ***17c*:*** **35TKG80**: Trigrad, 22.07.1938 (*Jord.*) SO 13553[2]; **35TLG05**: Hrabrino, 13.04.1998 (*Ch.*) SOA 060059[2]; **35TLG15**: Brestnik, 25.04.1971 (*Pop.*) SOA 25899[2]; 20.04.1976 (*G. Stoychev & Ch.*) SOA 34048-30349[2]; Kouklen, 1.05.1984 (Ch.) SOA 040585[2]; 35TLG40. Dyavolsky bridge, 2.05.1961 (*Vih.*) SO 46740[2]; 35TLG25: Asenovgrad, 6.06.1896 (*Strib.*) SO 13515; ***17e***: **35TMF29**: Ivaylovgrad, 03.05.1932 (*Stoj.*) SOA 14573; **35TMG10**: Dabovets – Kamilski-Dol, 11.05.1996 (*I.Gerasimova, D.Venkova & A.S.Petrova*) SOM 53449; ***18***: Bessapara ridges, 16.04.1966 (*Ch.*) SOA 045705; **35TKG86**: Elenski peak, 25.04.1937 (*S.G.*) SO 13547[2]; Glavinishki ridge, N42.13971 E24.34422, 260 m, 28.04.2021 (*KS)* SOA 063106; **35TKG96**: Trivoditsi, 13.04.1889 (*S.G.*) SO 13517*i*; **35TLG06**: Purvenets, 05.05.1980 (*Ch.*) SOA 38619[2]; **35TLG16**: Plovdiv, 05.1894 (*Strib.*) SOM 14112[1], P02163466; 05.1902 (*Mrkv.*) SOM 14116[1]; (*Strib.*) SOA 14571[2]; 04.1903 (*T.Pichler*) MA 01-00023207[2]; Dzhendemtepe, Plovdiv, 06.1891 (*V.Janka*) JE 00022413[2]; (*E.Halacsy*) 02163468; (T. Pchler) 01793703[2], 02163467[2]; (P.Sintenis) P02163465; 05.1893 SOA 14572[2]; 06.05.1893 (*Strib.*) SOM 14114[1], P 02163469[2]; US 1312870[2]; 13.05.1893 (Strib.) SO 13516[2], L 1472900[2]; 23.05.1896 (*Strib.*) SO 13520-13521[2]; 04.1910 (*Strib.*) SOM 14106[1]; 29.03.1914 (*Mrkv.* rev. *Rad.*) SOM 14024[2]; 7.04.1965 (*Ch.*) SOA 45702[2]; Bounardjik (*Strib.*) P 02163470[2]; **35TLG36**: Popovitsa, 05.1895 (*Strib.*) P01840773[2]; **35TLG64**: Mineralni-Bani, 22.04.1987 (*Delip.*) SOA 045351; **35TLG89**: Stara-Zagora, 12.04.1902 (*Aht.* det. *Dav.*) SOM 14126; 28.03.1911 (*Aht.* det. *Dav.*) SOM 14020-14021[2]; **35TLG94**: Bryagovo, 25.04.1962 (*Vih.*) SO 13522[2]; **35TLH80**: Ayazmoto park, 7.05.2005 (*S. Radanova*) SOM 163477; **35TMG21**: Karatepe, 22.04.1940 (*Kit.*) SO 32686[2]; **35TMG63**: Matochina, 26.05.1962 (*Jord. & A. Yanev*) SO 26800[2]; ***19:*** **35TMG43**: Shtit – Dervisha-Mogila, 25.04.1937 (*Jord.*) SO 13549[2]; **35TMG45**; Topolovgrad, 25.04.1971 (*I.Panova* det. *Ch*) SOA 045658; **35TMG69**: Kalchevo, 28.04.1943 (*Jord.*) SO 13546[2]; **35TMG79**: Yambolski-Bakadjik ridge, 20.04.1891 (*S.G.*) SO 13511; 07.05.1964 (*Ch.*) SOA 045657[2], 045700[2], 045703[2], 04705[2], 07.05.1965 (*Ch.*) SOA 045708[2], 045795-045797[2]; 7.05.1976 (*Ch.*) SOA 042581; **35TMH92**: Karnobat, 23.04.1930 (*Jord.*) SO 13512[2]; **35TNH22**: Aitos, 05.1905 (*Str.*) SOA 14562; 04.05.1929 (*Jord.*) SO 13510[2]; 12.05.1965 SOA 04400-04401[2]; ***20***: **35TNG34**: Vitanovo reserve, 19.04.1995 (*D.S.*) SO 98982; **35TNG45**: Stoilovo, 15.08.1934 (*Jord.*) SO 13545[2], Sredoka reserve, 04.2000 (*B. Georgiev & D.S.*) SO 101663.

Iris aphylla **L.**

17e: **35TLG60**, The Bridge south of Kardzhali, 275 m. 8.05.1964 (*Ch.*) SOA 045642, 045643, **35TLG70**. Zhelezni-Vrata train stop, 240 m, 1964-05-08 (*Delip. & Ch.*) SOA 45642-45645, 45647-45649; 1965-05-08, 1975-06-13 (*Pop.*) SOA 31118.

Iris pumila **L.**

1s: **35TNG59**: Sozopol, 1932 (*Stoj.*) SOA 02283; ***1n***: **35TNJ90**: Balchik, 24.04.1988 (*Ch.*) SOA 45612; 35TPJ00: Touzlata, 06.04.1957 (*Vih.*) SO 13554; **35TPJ10**: Bulgarevo, N43.408545 E28.398388, 90 m, 9.04.2020 (*Z.B.*) SOA 062785; Tyulenovo, N43.485668 E28.575025, 11 m, 9.04.2020 (*Z.B.*) SOA 062786; Bolata, N43.38991 E28.47254, 48 m, 9.04.2020 (*Z.B.*) SOA 062787; 35TPJ21: Yailata, 10.04.2007 (A.Asenov) SO 104378; ***2:*** **35TMH79**: Manastiritsa, 04.1918 (*Strib*) SOA 04636-04637; **35TNH38**: Kairyaka locality, N43.18959 E27.47539, 268 m 14.04.2020 (*Z.B.*)

SOA 062780; Provadiya, N43.1766667 E27.4425, 35 m (*S.G.*) SO 1354?; **35TNH48**: Devnya, 1902-04-11 (det. Dav.) SOM 14016; Zederlikaylack hill, N43.18907 E27.54436, 186 m, 14.04.2020 (Z.B.) SOA 062782; **35TNJ54**: Lyaxovo, 7.05.1987 (*V.V.*) SOM 15172-158173; ***3:*** **35TLJ13**: Shiyakovo, 08.04.1966 (Ch.) SOA 45660-45662, 45667, 45668; 35TLJ80: Polsko-Kosovo, 04.1931 (K.Popov) SO 13544; ***4w***: **35TLH17**: Lovech, 1901 (Urum.) SOA 14565; ***4e***: **35TLH46**: Sevlievo, 03.1904 (*Neic.*) SOM 14065; 35TLH86: Veliko-Turnovo station, 07.06.1966 (Vih.) SO 13552; 35TLH87: Veliko Turnov, 1897 (*I. Stamboliev*) SOM 14067; ***5c***: 35TLH75: Dryanovo monastery, 04.1901 (*Neic.*) 14063; **7**. **34FN55**, Chepan, 05.1914 (Stoj. & Stef) SOA 02278; **10s**: **34TFM72**, Kresna gorge, 17.04.1970, (*Delip.*) SOA 30687; **17c**: **35TLG15**: Brestnik, 24.04.2011 (*TR*) SOA s/n; 35TLG25: Asenovgrad, 05.1893 SOA 14563; **35TLG02**: Zornitsa village, 20.04.1970 (*Jord.*) SO 13555; ***18***: **35TKG86**: Elenski peak, 19.06.1965 (*Ch.*) SOA 45674-45676; 35TKG96: Trivoditsi, 04.04.1892 (*S.G.*) SO 13550; **35TMG34**: Kostur, N41.9796811 E26.2701371, 580 m (*V.Trifonov* det. *TR & KS*) SOA 063125; ***19***: **35TMG46**: Topolovgrad, 04.07.1974 (*Ch*) SOA 45688; **35TMG56**: Golemiy-Kamuk locality, N42.09524 E26.50081, 150 m, 13.04.2021 (*TR & KS*) SOA 063103; **35TMH60**, Yambolski Bakadzhik, 06.05.1963 (*Ch.*) SOA 45659, 45692; 24.04.1968 (*Pop.*) SOA 25903.

Iris variegata L

1n: **35TNJ73**: Kranevo, 27.05.1997 (*Delip.*) SOA 047633; **35TNH78**: Varna, 6.06.1904 (*Dav.*) SOM 14214; 35TNJ80: Batova, 2.06.1968 (*Kit.*) SO 91612; ***2:*** **35TMH99**: Shoumen, 05.1951 (*S.Dim. & Delip.*) SOA 04402-04404; **35TMJ98:** Popina, 25.06.1946 (*Jord.*) SO 13630; **35TNH58**: Beloslav, 81 m, N43.210928 E27.685363 (*Z.B.*) SOA 062858; **35TNJ23**: Zurnevo (*Kit. & I.P.*) SO 72124; **35TNJ43**: Karapelit, N43.649 E27.5831, 195 m (*Z.B.*) SOA 062859; 35TNJ70: Prilep, 2.06.1975 (*I. P. & Kit.*) SO 32543; **35TPJ03**: Surnino, 26.05.1958 SOA 04405-04407; ***3***: **35TKJ91**: Ostrata-Mogila locality, 23.05.1998 (*R.Tsonev*) SO 99629; **35TLJ00**: Pleven (*B. Ivanov*) SOA 14559; ***4w***: **34TFP15**: Vrushka-Chuka peak, 30.05.1967 (Ch.) SOA 045779-045781; 34TFP52: Белотинци, 12.06.1949 (*Jord. & S.Valev*) SO 13629; ***5w***: **34TFN94**: Kutinski-Piramidi locality, 18.06.1974 (*J. Koeva*) SO 69477; ***5c****: **35TLH75**:Momini-Skali locality, N42.95473 E25.444563, 518 m, 1.07.2020 (*Mar.*) SOA 062983; ***5e****: 35TMH57, Omourtag, 23.06.1923 (Jord.) SO 13662; 35TMH95: Malka-Orlitsa peak, 650 m, 08.07.2011 (*D.S.*) SO 101664; ***6:*** 03.06.1921 (Jord.) SOA 14560; **34TFN72**: Divotino Monastery,14.06.1931 (Stoj & *T.G.*) SOA 02276; 16.06.1931 (Stoj. & *T.G.*) SOM 14211; **34TFN72**: Souhodolska river, 30.06.1967 (Vih.) SO 13631; 34TFN82: Gorna-Banya, 20.06.1948 (I.Ganchev) SO 83703; Suhodol, 02.05.1929 (Vitanov, det. T.G.) SOA 02274; **34TFN92**: Lozenets, 04.06.1888 (*S.G.*) SO 13626; ***7:*** 34TFN55: Chepan, 7.07.1930 (B.Stefanov & T.G.) SOA 02273; ***8***: 4.06.18889 (*S.G.*) SO 13623; 34TFN82: Boyana, 06.1932 (K.Popow) SO 13627; ***15****: **34TFM76**: Rila, 850 m, 02.05.1989 (*D.S. & M.Langov*) SO 94208; ***16w***: **34TGN01**: Pasarel, 18.07.1975 (*L. Drazheva*) SO 41972; ***16e****: 35TLH70: Starozagorski-Bani, 7.06.1961 (Vih.) SO 30624; ***17c****: **35TLG15**: Kouklen, 20.05.1964 (Ch.) SOA 45772; N42.0271389 E24.7682778, 500 m, 17.06.2012 (KS) 061734; **35TLG24**: Bezovo hut, 26.05.1963 (Ch.) SOA 045459-045460, 045462, 045464-045467; **35TLG25**: Asenovgrad, 11.05.1892 (*S.G.*) SO 13628; 21.05.1893 (*Strib.*) SO 13625; 06.1894 (*Strib.*) SOA 14561; 10.06.1963 (*Ch.*) SOA 045458; 1.07.1964 (*Ch.*) SOA 045463; 19.05.1974 (*Ch.*) SOA 045783-045784; Asenova-Krepost fortress, 1.06.1967 (*Ch*) 033318-033320; ***17e***: **35TLG92**: Maluk-Izvor, 1.06.1964 (*I.K.*) SOA 047694; ***18****: **35TLG25**: Dolni-Voden, 20.05.1965 (*Ch.*) SOA 045461; 15.05.1967 (*Ch.*) SOA 045712 (sub *I. v.* var. *pigmea* Češchm.), 037370; 30.05.1967 (*Ch.*) 045450-045457, 045750, 045787-045791, 045793-045794; **5TLG59**: Malko-Dryanovo, 06.04.1972 (*S.Dim.*) SOA 025900-025902, 25948; 35TLG66: 06.1915 (det. *Stoj. & Stef.*) 02275; ***19***: **35TMG75**: Razdel, 27.06.1941 (*Jord.*) SO 14624.

Iris ×germanica L.

1s. **35TNH52**: Kaloyanova-Bakhcha locality, N42.714, E27.7233333, 22 m, 17.04.2011 (*TR & KS*) SOA s/n; **1n**. 35TPJ11: Sovata Bay, N43.5206389 E28.4349167, 1 m, 17.05.2010 (*TR & KS*) SOA 062265; **5c**. **35TLH14**, Knezhki Lag, 1893 (*Urum*) SOM 100643; 18: **35TLG16**: Plovdiv, 13.05.1980 (*Pop.*) SOA 044729, 04762.