

## SUPRASPECIFIC DIVISION OF THE GENUS *JUNCUS* (*JUNCACEAE*)

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**Abstract:** A new classification of the genus *Juncus* (*Juncaceae*) is presented. The genus is divided into two subgenera, characterized by the presence/absence of bracteoles and the structure of inflorescence. Lower rank subdivisions, sections, generally correspond to the traditionally recognized subgenera introduced by Buchenau. A new name is introduced for what has been called subg. (sect.) *Ensifolii*, *Juncus* sect. *Iridifolii*. A checklist of supraspecific names in *Juncus*, with typification and references to the sectional names accepted, is presented in the Appendix.

### INTRODUCTION

Our project of the world account of *Juncaceae*, prepared within the framework of the activities of the International Organization for Plant Information (IOPI), the Flora of the World Project (for details see <http://iopi.csu.edu.au/iopi/>) and funded by the Czech National Grant Agency (206/97/0936) requires a revision of the supraspecific division of both *Luzula* and *Juncus*. At the beginning of September 1998, a workshop was organized in the Institute of Botany, Academy of Sciences of the Czech Republic, Průhonice, Czech Republic. After a thorough discussion, the participants reached an agreement about the main concepts of the supraspecific division in *Juncus*. In addition to the authors, other experts participating in the project revised the text and added many corrections and made important suggestions. Our original aim was not to change substantially the generally accepted divisions, nor to abandon well-established names. However, with the change of rank in most groups, it was inevitable to change many of the names.

### PRINCIPLES OF THE SUPRASPECIFIC DIVISION IN *JUNCUS*

The genus *Juncus*, which has more than 300 species and many distinct species groups which up to now have been usually treated as subgenera (BUCHENAU 1906), is almost cosmopolitan. Additionally many of the species groups have a distinct geographic distribution

Table 1. Supraspecific division of *Juncus*. The system proposed in the present paper compared with that of Buchenau.

The proposed system	System of Buchenau
<i>Juncus</i> subg. <i>Juncus</i>	“eprophyllati”
1. sect. <i>Juncus</i>	subg. <i>Thalassici</i> BUCHENAU
2. sect. <i>Graminei</i> (ENGELM.) ENGELM.	subg. <i>Graminifolii</i> BUCHENAU (perennials) [subg. <i>Cephaloxys</i> RCHB.]
3. sect. <i>Caespitosi</i> COUT.	subg. <i>Graminifolii</i> BUCHENAU (annuals) [subg. <i>Juncinella</i> V.I. KREZ. et GONTSCH.]
4. sect. <i>Stygiopsis</i> KUNTZE	subg. <i>Alpini</i> BUCHENAU
6. sect. <i>Ozophyllum</i> DUMORT.	subg. <i>Septati</i> BUCHENAU
5. sect. <i>Iridifolii</i> SNOGERUP et KIRSCHNER	—
<i>Juncus</i> subg. <i>Poiophylli</i> BUCHENAU	“prophyllati”
7. sect. <i>Tenageia</i> DUMORT.	subg. <i>Poiophylli</i> BUCHENAU (annuals)
8. sect. <i>Steirochloa</i> GRISEB.	subg. <i>Poiophylli</i> BUCHENAU (perennials) [subg. <i>Pseudotenageia</i> V.I. KREZ. et GONTSCH.]
9. sect. <i>Juncotypus</i> DUMORT.	subg. <i>Genuini</i> BUCHENAU
10. sect. <i>Forskalina</i> KUNTZE	subg. <i>Subulati</i> BUCHENAU

or a local diversity centre. Thus, a taxonomically reliable system of supraspecific taxa is of importance for local accounts and for understanding the major relationships within the genus. Since BUCHENAU (1875), a non-hierarchical system of eight subgenera prevailed in the literature, sometimes with additional taxa (sections or subgenera) recognized. However, already Buchenau (*opera varia*, at least from 1877) was already aware of the fact that it was possible to draw a line between two major groups of the genus. BUCHENAU (1906) called the groups informally: “prophyllati” and “eprophyllati”, which in modern terms means that the two groups are characterized by the presence/absence of bracteoles. It was NOVARA (1976) who pointed out that this major division was corroborated by another substantial structural difference: the plants with bracteoles have a cymose inflorescence while ebracteolate groups have inflorescences of racemose structure. Species groups on one side of the line are much more similar to one another than to those on the other side. In particular, many ebracteolate groups are evidently closely related. It is obvious that character differences of this magnitude should be reflected in the system of supraspecific division. NOVIKOV (1990) was the first to apply this principle in his thorough revision of the supraspecific taxonomy of *Juncus*, and principal ideas of his approach were accepted here.

Other characters used in the supraspecific division of *Juncus*, particularly the leaf anatomy, have a distribution showing a repeated origin of some structures. Close relationships and traces of intermediate structures between taxa with unifacial and bifacial leaves within each of the two subgenera document this phenomenon.

## TYPIIFICATION OF *JUNCUS*

The first, mechanical attempt to typify the generic name *Juncus* L. was made by COVILLE (1913). He selected the first species listed by LINNAEUS (1753), i.e. *Juncus acutus* L., in Buchenau's works classified as a member of subg. *Thalassici* BUCHENAU. SNOGERUP (1971) accepted this typification; the original selection was not contrary to the protologue. It must be admitted that the subg. *Juncus* (subg. *Thalassici*) represents a relatively marginal and small

group in the genus, and, if future molecular studies show its isolated status, thus justifying a generic rank, the type would have to be changed by conservation. However, the later selection of *Juncus inflexus* L. as a new lectotype (NOVIKOV 1976) has very little support in the nomenclatural Code (GREUTER et al. 1994), and cannot be followed.

## COMMENTS ON THE TAXONOMY OF THE *JUNCUS* SECTIONS AND SUBGENERA

In order to allow an easy comparison between our supraspecific classification of *Juncus* and the traditional system of BUCHENAU, the following table is presented (Tab. 1).

On the "bracteolate wing" of the genus (the subg. *Poiophylli* BUCHENAU) the groups, here accepted as sections, are relatively clear-cut. The isolated, very distinct sect. *Forskalina* is almost confined to the Mediterranean *sensu lato*. The section *Tenageia*, with its diversity centre in SW Europe and the Mediterranean, comprises exclusively annuals, and is most closely related to the sect. *Steurochloa*, a diverse section of perennials with comparatively distinct species groups (sometimes recognized as subsections or separate sections (ROUY 1913, NOVIKOV 1990)); sect. *Steurochloa*, in all likelihood, may be considered as the most primitive subdivision of the genus. Another generally accepted section is sect. *Juncotypus* DUMORT. (= subg. *Genuini*).

A less clear situation is found in the subg. *Juncus*, comprising the ebracteolate taxa. The most distinct section is the type sect. *Juncus*, a coastal and halophilous group of very wide distribution in both hemispheres. The rest is represented by species assemblages connected by occasional intermediates. A subdivision of this complex is difficult: some groups are based on only a few diagnostic characters; within each group some species complexes are almost as distinct as many of the groups; the above-mentioned intermediates exist. In particular, there are doubts about the separate status of annuals vs. perennials in the section known as sect. *Graminifolii* s.l. The former subg. *Alpini*, now recognized as sect. *Stygiopsis*, is a structured diverse group with connections to other ebracteolate sections. Another problem is posed by a section closely related to the sect. *Ozophyllum* (formerly subg. *Septati*), most often called subg. *Ensifolii*.

The subgenus *Juncus* was treated as a series of sections with numerous subsections by NOVIKOV (1990). It is the intention of the present authors to make the general system of *Juncus* relatively simple to meet the need for comprehensibility for the Flora of the World. Moreover, information from sources other than anatomical and morphological ones is lacking, which makes drawing any conclusions extremely difficult. We, therefore, mostly retain the groups in their traditional circumscription; the (probably necessary) changes must be a result of a thorough molecular study of the relationships within the genus. In relation to this, we should mention the presumed intermediates between the two subgenera (BUCHENAU 1890, 1906). In the group of *Juncus modestus* BUCHENAU and *Juncus potaninii* BUCHENAU (sect. *Stygiopsis*), BUCHENAU (1890, 1906) found inflorescence structures resembling floral bracteoles and concluded that the group represented a link between his subgenera *Alpini* and *Poiophylli*. This problem requires a special study to be completed.

## NOTES ON THE SUPRASPECIFIC NOMENCLATURE IN *JUNCUS*

The detailed nomenclatural account of *Juncus* in Appendix gives a list of validly published supraspecific names with their types and nomenclatural notes where necessary. Invalid

“names” are mentioned in selected cases, particularly when used later in the literature as if valid. Only names that refer to the modern concept of *Juncus* are included. The following notes give an introduction to the nomenclatural list, i.e. a historical account of works most important for the supraspecific nomenclature in *Juncus*.

In 1969, BRIZICKY published an important introduction to the supraspecific (subgeneric and sectional) nomenclature. He identified a number of early sources of such names, and his work is fully exploited in the following account. However, since then, a number of additional works with validly published supraspecific names have appeared, and there are numerous works on the *Juncaceae* with supraspecific names.

**SPENNER (1825):** Genera with many species were hierarchically subdivided in a complicated way, and various marks were used for different ranks (asterisks, capital letters, Roman numerals, etc.). In the text, Spenner often used the term *sectio* for subdivisions listed under Roman numerals (most notably in *Carex*). However, the same term was used for some other ranks, and the rank of sections cannot be automatically attributed to all subdivisions marked with Roman numerals. In *Juncus*, the subdivisions were not explicitly given any rank and must be considered as unranked.

**DUMORTIER (1827):** BRIZICKY (1969) correctly interpreted the subdivisions marked with § as sections, and the work is a very important source of early sectional names in *Juncus*. The problem of validity of names with a suffix *typus*, quite frequently but not consistently used in subdivided genera (e.g., *Juncotypus*, *Hieraciotypus*) remains to be mentioned. STACE (1998) considers such names as invalid because “DUMORTIER used the name for what he considered to be the type section”. In our opinion, there is little support in the Code (GREUTER et al. 1994) for the automatic rejection of names of subdivisions of genera derived in the above way. STACE (1998) implicitly extended the applicability of Art. 24.3 (referring to infraspecific epithets) to the subdivisions of genera, which cannot be considered correct. At the time of publication of Dumortier’s sectional names (1827), the name *Juncus* was not typified, and nothing could prevent Dumortier from using *Juncus* sect. *Juncotypus* for what he considered as typical representatives of the genus. The name sect. *Juncotypus* is regarded as validly published, and was later accepted at the rank of section (POST & KUNTZE 1903) and subgenus (KREZETOVICZ & GONTSCHAROV 1935), and we adopt it as a correct name for what has been called subg. *Genuini*. The next candidate at the same rank for this group is sect. *Steirocaulos* GRISEB.

**REICHENBACH (1841):** BRIZICKY (1969) correctly pointed out that the subdivisions designated by Arabic numerals represent subgenera. Thus, the name *Juncus* subg. *Cephaloxys* (DESV.) RCHB. predates subg. *Graminifolii*.

**GRISEBACH (1845):** The subdivisions are clearly called “sectio” in the text, and there is no doubt about their validity and rank.

**FRIES (1845):** All the supraspecific names in *Juncus* in the Fries’ work, very often mentioned in literature, were published as *nomina nuda*, i.e. invalid names.

**KOCH (1848):** We have studied this work in detail but no indication of the rank referring to the subdivisions (designated by capital letters) was found. PFEIFFER (1875) incorrectly attributed the rank of section to these subdivisions.

**PETERMANN (1849):** Again, no indication of rank was found in Petermann’s work. The subdivisions designated by Arabic numerals were interpreted as sections by NOVIKOV (1990) but were apparently originally published as unranked names.

**ENGELMANN (1866–1868):** First, we have to state that both parts of Engelmann's work, although divided by a gap of almost two years, form a single publication (the study was not divided in any formal way). Three ranks of supraspecific names in *Juncus* can be found in it. The two subgenera (*Juncus* and *Juncellus* ENGELM.) appeared and were discussed in the introductory part of the study but the latter was explicitly and totally abandoned in the second one. The three sections adopted by Engelmann were published in an invalid form (*Junci genuini*, *Junci graminifolii*, *Junci articulati*, in conflict with Art. 32.b), but the former two were later validated by BUCHENAU (1875) at the rank of subgenus. The unranked names, subdivisions of sections, usually called "groups" were published validly and later used as basionyms of combinations.

**BUCHENAU (1869, 1875, 1880, 1906):** NOLTIE (1994) expressed serious doubts about the validity of many subgeneric names published by Buchenau. In Buchenau's most important work (as regards the supraspecific nomenclature in *Juncus*, BUCHENAU 1875), the names mostly appeared in a form that cannot be accepted as constituting a valid publication. It is curious that Buchenau used supraspecific names in *Luzula* in the correct form (i.e., for instance, *Luzula* sect. *Pterodes* GRISEB.) but used various modifications of an incorrect form of supraspecific names in *Juncus*. Most often he used the form *Juncus* Sect. II. *Junci poiophylli* (first introduced in 1869) or simply *Junci poiophylli*. In order to consolidate the nomenclature of *Juncus* at the rank of subgenus, we have had to find places where Buchenau published his names in the correct form for the first time. In BUCHENAU (1875: 500), in the Table, the subgeneric epithets are separated from "*Junci*", and most of the generally accepted subgeneric names are validly published there. It should be emphasized that the Table is an important source of combinations because several names are directly (and most of the others indirectly) based on those published by ENGELMANN (1866). For the nomenclatural purist, we also refer to BUCHENAU (1880: 118), where all the subgeneric names are given in a Table, in a perfectly correct form (e.g., *Juncus* II. *Poiophylli*; the rank of subgenus, "Untergattung", being introduced in the text). For the sake of completeness, we mention BUCHENAU (1906) as a source of new supraspecific names. They usually are given in an invalid form in the text and their rank is clearly indicated in the Index. Only one supraspecific name, *Juncus* ser. *Perennes* (LT: *Juncus lomatoxyllus* SPRENG.), was published validly in 1906.

### **JUNCUS SECT. IRIDIFOLII**

A group of *Juncus* species characterized by pluritubulose, imperfectly septate leaves with blades flattened perpendicular to the stem (*Iris*-like), and centred in Pacific North America and Japan, has traditionally been called *Juncus* subg. (sect.) *Ensifolii*. Although the group exhibits close links to certain taxa of the sect. *Ozophyllum* DUMORT., most authors are of the opinion, which we share, that the group deserves recognition at least at the rank of subsection. The supraspecific epithet "*Ensifolii*" first appeared in the ENGELMANN's (1866–1868) study. The name was published validly in 1866 without an indication of rank, and (1868: 486) was explicitly typified: "This species [= *Juncus xiphoides* E. MEY.], the type of the group of *Ensifolii* ...". The name *Juncus* [unranked] *Ensifolii* was later used by RYDBERG (1917, 1922) and COVILLE (1923) and by other authors, again rankless.

SNOGERUP (1963) published a new sectional name, *Juncus* sect. *Ensifolii* SNOGERUP, with an indirect reference to RYDBERG (1922), but with a Latin diagnosis and designation of *Juncus ensifolius* WIKSTR. as the type. The name cannot be considered as a nomenclatural combination of the Engelmann's name because the new combination would be in conflict with Art. 32.4

of the Code (GREUTER et al. 1994) and therefore invalid. Thus, the name *Juncus* sect. *Ensifolii* SNOGERUP must be regarded as illegitimate under Art. 53. It should be added that SNOGERUP (1963) treated the Rydberg's name as invalidly published. In 1978, *Juncus* sect. *Ensifolii* was elevated to the rank of subgenus, and another illegitimate name (Art. 53) was created.

As we accept the separate taxonomic status of the "*Ensifolii*", we publish a new sectional name for it, *Juncus* sect. *Iridifolii*.

### ***Juncus* sect. *Iridifolii* SNOGERUP et KIRSCHNER, sect. nov.**

#### **Diagnosis**

Junci perennes, rhizomatosi vel caespitosi, caules ancipiter-compressi, plerumque alati, laminae foliorum ensiformes, ancipiter-compressae, pluritubulosae, imperfecte septatae; bracteolae florales desunt; semina plerumque apiculata, ecaudata, regulariter rectangulariterque reticulata costulis longitudinalibus continuis, transversis brevibus, areis transversim lineolatis.

Typus sectionis: *Juncus ensifolius* WIKSTR. (HT: S!).

#### **Synonyms**

= *Juncus* [unranked] *Ensifolii* ENGELM. Trans. Acad. Sci. St. Louis 2: 436. 1866. – T: *Juncus xiphoides* E. MEY.

≡ *Juncus* ser. *Ensifolii* (ENGELM.) SATAKE in NAKAI et HONDA Nova Fl. Japon. 1: 85. 1938.

= *Juncus* ser. *Alati* SATAKE in NAKAI et HONDA Nova Fl. Japon. 1: 87. 1938. – T: *Juncus alatus* FRANCH. et SAV.

= *Juncus* subsect. *Ancipiti* SATAKE in NAKAI et HONDA Nova Fl. Japon. 1: 87. 1938. – T: *Juncus alatus* FRANCH. et SAV. (LT, **designated here**).

= *Juncus* ser. *Auriculati* SATAKE in NAKAI et HONDA Nova Fl. Japon. 1: 87. 1938. – T: *Juncus yakeisidakensis* SATAKE.

= *Juncus* sect. *Ensifolii* SNOGERUP Bot. Not. 116: 151. 1963, nom. illeg. (Art. 53). – T: *Juncus ensifolius* WIKSTR.

≡ *Juncus* subg. *Ensifolii* [SNOGERUP] SNOGERUP Bot. Not. 131: 187. 1978, nom. illeg. (Art. 53).

≡ *Juncus* subsect. *Ensifolii* [SNOGERUP] NOVIKOV Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol., 95: 123. 1990, nom. illeg. (Art. 53).

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## APPENDIX

A checklist of supraspecific names in *Juncus*

All the names refer to the accepted (numbered) names in Tab. 1 through the number in brackets at the end of each entry. Selected invalid names are listed in small script; names that do not have the required form, e.g., "*Junci axillares*", are not included. \* – indicates invalid names.

- Juncus* sect. *Acuti* [FR. ex] T. MARSSON, Fl. Neu-Vorpommern 454, 1869; ROUY, Fl. Fr. 13: 229, 1912, nom. illeg. (Art. 52) [Homotypic with *Juncus* sect. *Juncastrum* [FOURR. ex] KUNTZE 1903] HT: *Juncus acutus* L. (Art. 22.5). [1]  
 \**Juncus* [unranked] *Acuti* FR., Summa Veg. Scand. 1: 66, 1845.
- Juncus* subsect. *Acuti* [V.I. KREZC. et GONTSCH. ex] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 117, 1990. LT (selected by NOVIKOV): *Juncus acutus* L. [Note: Homotypic with sect. *Acuti* ROUY but published as a new taxon, not a mere combination]. [1]  
 \**Juncus* [ryad] *Acuti* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 543, 1935, nom. inval. (Art. 36.1).  
 \**Juncus* [ryad] *Acutiflori* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 541, 1935, nom. inval. (Art. 36.1).  
 [Note: not based on *Juncus acutiflorus* HOFFM.]
- Juncus* ser. *Alati* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 87, 1938. T (Art. 22.1): *Juncus alatus* FRANCH. et SAV. [6]
- Juncus* sect. *Allioidei* K.F. WU, Acta Phytotax. Sin. 32: 452, 1994. ["Allioides"]. HT: *Juncus allioides* FRANCH. [4]
- Juncus* [unranked] *Alpini* ENGELM., Trans. Acad. Sci. St. Louis 2: 434, 1866. LT (**designated here**): *Juncus triglumis* L. [4]
- Juncus* subg. *Alpini* (ENGELM.) BUCHENAU, Bot. Jahrb. 1: 118, 1880. [4]
- Juncus* sect. *Alpini* (ENGELM.) VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam., ed. 2, 15a: 218, 1930 [4]  
 \**Juncus* [ryad] *Alpini* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 537, 1935, nom. inval. (Art. 36.1).  
 [Note: The name is not referable taxonomically to *Alpini* ENGELM.]
- Juncus* subsect. *Ambigui* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 112, 1990. T: *Juncus bufonius* L. [7]
- Juncus* subsect. *Ancipiti* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 87, 1938. LT (**designated here**): *Juncus alatus* FRANCH. et SAV. [6]
- Juncus* [unranked] *Annui* BOISS, Fl. Or. 5: 35, 1884. LT (**designated here**): *Juncus bufonius* L. [7]
- Juncus* [unranked] *Aphylli* SPENN., Fl. Friburg. 1: 179, 1825. LT (**designated here**): *Juncus filiformis* L. [9]
- Juncus* [Rotte] *Aphylli* (DÖLL) NEILR., Fl. Nieder-Oesterr. 143, 1859. The basionym not seen, probably the name represents a later homonym. [9]
- Juncus* sect. *Aphylli* (SPENN.) COUT., Bol. Soc. Brot. 8: 89 et 90, 1890. LT (**designated here**): *Juncus filiformis* L. [9]
- Juncus* [unranked] *Arctici* ENGELM., Trans. Acad. Sci. St. Louis 2: 434, 1866. T (Art. 22.5): *Juncus arcticus* WILLD. [9]  
 \**Juncus* [ryad] *Arctici* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 555, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Arthrophyllon* K. KOCH, Linnaea 21: 627, 1848. T: not designated, LT (**designated here**): *Juncus alpinus* VILL. [5]
- Juncus* sect. *Arthrophyllon* (K. KOCH) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 78, 1938. [5]
- Juncus* [unranked] *Articulati* ENGELM., Trans. Acad. Sci. St. Louis 2: 435, 1866. T (Art. 22.5): *Juncus articulatus* L. [5]
- Juncus* sect. *Articulati* [FR. ex] T. MARSSON, Fl. Neu-Vorpommern 454, 1869. T: (Art. 22.5): *Juncus articulatus* L. [5]
- Juncus* sect. *Articulati* (ENGELM.) ROUY, Fl. Fr. 13: 234, 1912. [5]  
 \**Juncus* [ryad] *Articulati* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 538, 1935, nom. inval. (Art. 36.1).  
 \**Juncus* [unranked] *Articulati* FR., Summa Veg. Scand. 1: 65, 1845, nom. inval., nudum
- Juncus* ser. *Articulati* (ENGELM.) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 79, 1938. T: *Juncus articulatus* L. [5]  
 \**Juncus* [ryad] *Atrofusci* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 528, 1935, nom. inval. (Art. 36.1).

- Juncus* ser. *Auriculati* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 86, 1938. T: *Juncus yakeisidakensis* SATAKE. [6]
- Juncus* subsect. *Baltici* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 115, 1990. T: *Juncus balticus* WILLD. [9]
- Juncus* ser. *Benghalenses* K.F. WU, Acta Phytotax. Sin. 32: 460, 1994. T: *Juncus benghalensis* KUNTH. [4]
- Juncus* subsect. *Beringenses* NOVIKOV, Novosti Sist. Vyssh. Rast. 19: 56, 1982. T: *Juncus beringensis* BUCHENAU. [9]
- \**Juncus* [cikli] *Biglumes* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 521, 1935, nom. inval. (Art. 36.1); SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 69, 1938, nom. inval., as ser. (Art. 36.1).
- Juncus* subsect. *Bracteati* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 119, 1990. T: *Juncus bracteatus* BUCHENAU. [4]
- Juncus* [unranked] *Bufonii* RYDB., Fl. Rocky Mts. 150, 1917. T: *Juncus bufonius* L. (Art. 22). [7]
- \**Juncus* [ryad] *Bufonii* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 517, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Bufonii* K.F. WU, Acta Phytotax. Sinica 32: 450, 1994, nom. illeg. (Art. 52) [Homotypic with *Juncus* sect. *Poiophylli* (BUCHENAU) ROUY]. T: *Juncus bufonius* L. [7]
- Juncus* sect. *Caespitosi* COUT., Bol. Soc. Brot. 8: 90 et 104, 1890. LT (designated here): *Juncus capitatus* WEIGEL [3]
- Juncus* [Rotte] *Capitati* NEILR., Fl. Nieder-Oesterr. 145, 1859. T: *Juncus capitatus* WEIG. [3].
- Juncus* [unranked] *Capituliflori* PETERM., Deutschl. Fl. 592, 1849 [Rank term: "Abtheilung", not subgenus]. LT (designated here): *Juncus alpinus* VILL. [5]
- Juncus* [unranked] *Castanei* RYDB., Fl. Rocky Mts. 150, 1917. T (Art. 22.5): *Juncus castaneus* SM. [4]
- Juncus* subsect. *Castanei* [RYDB.] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 118, 1990. T: *Juncus castaneus* SM. [4]
- \**Juncus* [cikli] *Castanei* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 524, 1935, nom. inval. (Art. 36.1).
- \**Juncus* [ryad] *Castanei* V.I. KREZC. et GONTSCH., Fl. SSSR 3: 525, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Castanei* (RYDB.) SATAKE in NAKAI et HONDA, Nova Fl. Japon. 1: 67, 1938. [4]
- Juncus* [unranked] *Caudati* ENGELM., Trans. Acad. Sci. St. Louis 2: 436, 1866. T (Art. 22.5): *Juncus caudatus* CHAPM. [5]
- \**Juncus* [cikli] *Caudati* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 556, 1935, nom. inval. (Art. 36.1). [The only species listed: *Juncus beringensis*].
- Juncus* sect. *Caudati* [V.I. KREZC. et GONTSCH. ex] SATAKE in NAKAI et HONDA, Nova Fl. Japon. 1: 67, 1938, nom. illeg. (Art. 53). T: *Juncus beringensis* BUCHENAU. [9]
- Juncus* [unranked] *Cephalophora* K. KOCH, Linnaea 21: 627, 1848. T: *Juncus alpigenus* K. KOCH. [5]
- Juncus* [ryad] *Cephalophora* (K. KOCH) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 542, 1935. [5]
- genus *Cephaloxys* DESV., J. Bot. 1: 321, 1809, nom. illeg. (Art. 53). T: *C. flabellaia* DESV. [= *Juncus repens* MICHX.]. [2]
- Juncus* subg. *Cephaloxys* [DESV.] RCHB., Deutsch. Bot. Herb.-Buch 46, 1841 (subg. *Graminifolii* included). [2]
- Juncus* sect. *Cephaloxys* ([DESV.] RCHB.) POST et KUNTZE, Lex. Gen. Phaner. 303, 1903, nom. nov. [2]
- Juncus* subsect. *Chilenses* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 122, 1990. T: *Juncus chilensis* GAY. [5]
- Juncus* [unranked] *Communes* ENGELM., Trans. Acad. Sci. St. Louis 2: 433, 1866. LT (designated here): *Juncus effusus* L. [9]
- Juncus* sect. *Communes* (ENGELM.) SATAKE in NAKAI et HONDA, Nova Fl. Japon. 1: 55, 1938. [9]
- Juncus* [unranked] *Compressi* BOISS., Fl. Or. 5: 351, 1884. T: *Juncus compressus* JACQ. (Art. 22.5). [8]
- Juncus* sect. *Compressi* (BOISS.) ROUY, Fl. Fr. 13: 247, 1912. [8]
- Juncus* subsect. *Compressi* (BOISS.) NOVIKOV, Novosti Sist. Vyssh. Rast. 19: 53, 1982. [8]
- \**Juncus* [ryad] *Compressi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 527, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Concinni* K.F. WU, Acta Phytotax. Sin. 32: 462, 1994. T: *Juncus concinnus* D. DON. [4]
- \**Juncus* [ryad] *Conglomerati* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 551, 1935, nom. inval. (Art. 36.1).
- Juncus* [Rotte] *Cymosi* NEILR., Fl. Nieder-Oesterr. 148, 1859. T: *Juncus compressus* JACQ. [8].
- Juncus* [unranked] *Cyeroidei* BOISS., Fl. Or. 5: 351, 1884. T: *Juncus sparganifolius* BUCHENAU. [2]
- Juncus* subsect. *Cyeroidei* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 120, 1990, nom. illeg. (Art. 53). T: *Juncus cyperoides* LAHARPE. [2]

- Juncus* ser. *Dongchuanenses* K.F. WU, Acta Phytotax. Sin. 32: 456, 1994. T: *Juncus dongchuanensis* K.F. WU. [5]
- Juncus* subsect. *Dregeani* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. T: *Juncus dregeanus* KUNTH. [2]
- Juncus* subsect. *Drummondii* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 116, 1990. T: *Juncus drummondii* E. MEY. [9]
- \**Juncus* [ryad] *Effusi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 548, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Effusi* RYDB., Fl. Rocky Mts. 150, 1917. LT (**designated here**): *Juncus filiformis* L. [9]
- Juncus* sect. *Effusi* K.F. WU, Acta Phytotax. Sin. 32: 443, 1994 (not illegitimate, nor correct). T: *Juncus effusus* L. [9]
- Juncus* subsect. *Effusoidei* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 62, 1938. T (Art. 22.5): *Juncus setchuensis* var. *effusoides* BUCHENAU. [9]
- Juncus* [unranked] *Ensifolii* ENGELM., Trans. Acad. Sci. St. Louis 2: 436, 1866. T: *Juncus xiphoides* E. MEY. [6]
- Juncus* ser. *Ensifolii* (ENGELM.) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 85, 1938. [6]
- Juncus* sect. *Ensifolii* SNOGERUP, Bot. Not. 116: 151, 1963, nom. illeg. (Art. 53). T: *Juncus ensifolius* WIKSTR. [6]
- Juncus* subgenus *Ensifolii* [SNOGERUP] SNOGERUP, Bot. Not. 131: 187, 1978, nom. illeg. (Art. 53). T: *Juncus ensifolius* WIKSTR. [6]
- Juncus* subsect. *Ensifolii* [SNOGERUP] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 123, 1990, nom. illeg. [6]
- Juncus* sect. *Falcati* NOVIKOV, Novosti Sist. Vyssh. Rast. 19: 56, 1982. T: *Juncus falcatus* E. MEY. [2]
- Juncus* subsect. *Falcati* [NOVIKOV] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 120, 1990. T: *Juncus falcatus* E. MEY. [2]
- Juncus* subsect. *Faurienses* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 122, 1990. T: *Juncus fauriensis* BUCHENAU. [5]
- Juncus* ser. *Filiformes* SATAKE in NAKAI et HONDA, Nova Fl. Japon. 1: 72, 1938. LT (**designated here**): *Juncus potaninii* BUCHENAU. [4]
- \**Juncus* [ryad] *Filiformes* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 552, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Foliati* SPENN., Fl. Friburg. 1: 182, 1825. T: *Juncus acutiflorus* HOFFM. [Note: The epithet appeared in SCHUR Enum. Pl. Transsilv. 685. 1866, in the rank of section but as nom. inval. (no reference, no description)]. [5]
- Juncus* sect. *Forskalina* KUNTZE in POST et KUNTZE, Lex. Gen. Phaner. 303, 1903. T: *Juncus subulatus* Forssk. (the name validated through a citation of subg. *Subulati* BUCHENAU). [10]
- Juncus* subgenus *Forskalina* (KUNTZE) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 557, 1935, nom. illeg. (Art. 52, subg. *Subulati* BUCHENAU included). [10]
- Juncus* subgenus *Genuini* [ENGELM.] BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. LT (SNOGERUP 1971): *Juncus glaucus* HOFFM. [9]
- Juncus* sect. *Genuini* (BUCHENAU) VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam., ed. 2, 15a: 215, 1930. [9]
- Juncus* subsect. *Genuini* (BUCHENAU) NOVIKOV, Novosti Sist. Vyssh. Rast. 19: 54, 1982. [9]
- Juncus* subsect. *Gerardii* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 114, 1990. T: *Juncus gerardii* LOISEL. [8]
- \**Juncus* [ryad] *Glauci* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 546, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Graminei* ENGELM., Trans. Acad. Sci. St. Louis 2: 435, 1866. LT (**designated here**): *Juncus repens* MICHX. [2]
- Juncus* sect. *Graminei* (ENGELM.) ENGELM., Bot. Gaz. 7: 6, 1882. [2]
- Juncus* subgenus *Graminifolii* [ENGELM. ex] BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. LT, selected by NOVIKOV, 1990: 120: *Juncus capensis* Thunb. [2]
- Juncus* sect. *Graminifolii* ([ENGELM. ex] BUCHENAU) ROUY, Fl. Fr. 13: 249, 1912; isonym: VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam., ed. 2, 15a: 216. 1930. [2]
- Juncus* subsect. *Graminifolii* (BUCHENAU) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. [2]
- Juncus* subsect. *Grisebachii* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 119, 1990. T: *Juncus GRISEBACHII* BUCHENAU. [4]
- \**Juncus* [cik] *Herporrhiza* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 552, 1935, nom. inval. (Art. 36.1).

- \**Juncus* subsect. *Herporrhiza* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 57, 1938, nom. inval. (Art. 36.1).
- Juncus* sect. *Hexandri* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 75, 1938. – T: *Juncus kamschatcensis* BUCHENAU. [5]
- \**Juncus* [cikl] *Hypura* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 527, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Inflexi* K.F. WU, Acta Phytotax. Sin. 32: 442, 1994. T: *Juncus inflexus* L. [9]
- \**Juncus* [ryad] *Inundati* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 554, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Isophyllon* K. KOCH, Linnaea 21: 628, 1848. LT (designated here): *Juncus bufonius* L. [7]
- \*genus *Juncastrum* FOURR., Ann. Soc. Linn. Lyon, sér. 2, 17: 172, 1869, nom. inval.
- Juncus* sect. *Juncastrum* [FOURR. ex] KUNTZE in POST et KUNTZE, Lex. Gen. Phaner. 303, 1903. [Note: The name should be designated as validly published through a reference to subg. *Thalassici* BUCHENAU; typification of sect. *Juncastrum* must be the same as that of subg. *Thalassici*, i.e. *Juncus acutus* L.]. [1]
- Juncus* subgenus *Juncastrum* (KUNTZE) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 543, 1935, nom. inval. (Art. 22.2) [*Juncus* subg. *Thalassici* also explicitly included]. [1]
- \**Juncus* subgenus *Juncellus* ENGELM., Trans. Acad. Sci. St. Louis 2: 436, 1866, nom. inval. [Not accepted by the original author].
- \*genus *Juncinella* FOURR., Ann. Soc. Linn. Lyon, sr. 2, 17: 172, 1869, nom. inval.
- Juncus* subgenus *Juncinella* [FOURR. ex] V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 514, 1935, doubtfully valid through citation of “*Junci graminifolii* BUCH., pro pl. annuis”. T: *Juncus capitatus* WEIGEL. [3]
- Juncus* sect. *Juncinella* (KREZC. et GONTSCH.) WEIM., Svensk. Bot. Tidskr. 40: 161, 1946 (not illegitimate, nor correct) [3]
- Juncus* subsect. *Juncinella* (V.I. KREZC. et GONTSCH.) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 120, 1990. [3]
- Juncus* sect. *Juncotypos* DUMORT., Fl. Belg. 142, 1827. LT (designated here): *Juncus conglomeratus* L. [Note: The LT designated by BALSLEV (1996: 88), *Juncus inflexus* L., cannot be accepted because the name is not a part of the protologue]. [9]
- Juncus* subgenus *Juncotypos* (DUMORT.) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 546, 1935, nom. illeg. (Art. 52) [subg. *Genuini* BUCHENAU cited]. [9]
- Juncus* sect. *Kangpuenses* K.F. WU, Acta Phytotax. Sin. 32: 443, 1994. T: *Juncus kangpuensis* K.F. WU. [8]
- Juncus* [unranked, “Abtheilung”] *Lateriflori* PETERM., Deutschl. Fl. 591, 1849. LT (designated here): *Juncus conglomeratus* L. [9]
- Juncus* sect. *Lateriflori* [FR. ex] T. MARSSON, Fl. Neu-Vorpommern 451, 1869; ROUY, Fl. Fr. 13: 223, 1912 (not illegitimate, nor correct). LT (BALSLEV 1996): *Juncus inflexus* L. [9]
- \**Juncus* [unranked] *Lateriflori* FR., Summa Veg. Scand. 1: 65, 1845, nom. inval., nudum.
- \**Juncus* [ryad] *Leucomelani* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 522, 1935, nom. inval. (Art. 36.1).
- Juncus* subsect. *Longistylis* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 120, 1990. T: *Juncus longistylis* TORREY [2]
- Juncus* subsect. *Luzuliformes* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 118, 1990. T: *Juncus luzuliformis* FRANCH. [4]
- Juncus* [unranked] *Maritimi* ENGELM., Trans. Acad. Sci. St. Louis 2: 433, 1866. T: *Juncus maritimus* LAM. (Art. 22). [1]
- Juncus* sect. *Maritimi* (ENGELM.) ROUY, Fl. Fr. 13: 230, 1912. [1]
- Juncus* subsect. *Maritimi* (ENGELM.) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 117, 1990. [1]
- \**Juncus* [ryad] *Maritimi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 545, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Marsippospermum* (DESV.) E. MEY., Syn. Junc. 52, 1822. Bas.: *Marsippospermum* DESV.
- Juncus* subsect. *Membranacei* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 118, 1990. T: *Juncus membranaceus* ROYLE in D. DON. [4]
- Juncus* subsect. *Mertensiani* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 123, 1990. T: *Juncus mertensianus* BONG. [5]
- Juncus* sect. *Minimi* K.F. WU, Acta Phytotax. Sin. 32: 461, 1994. T: *Juncus minimus* BUCHENAU. [4]
- \**Juncus* [ryad] *Minutuli* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 520, 1935, nom. inval. (Art. 36.1).
- Juncus* ser. *Monocephali* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 78, 1938. T: *Juncus mertensianus* BONG. [5]

- \**Juncus* subg. *Multiflori* BUCHENAU, Abh. Naturwiss. Vereine Bremen 4: 500, 1875, nom. inval., nudum. *Juncus* sect. *Nigroviolacei* K.F. WU, Acta Phytotax. Sin. 32: 448, 1994. T: *Juncus nigroviolaceus* K.F. WU. [?7]
- Juncus* [unranked] *Nodosi* RYDB., Fl. Rocky Mts. 150, 1917. T: *Juncus nodosus* L. (Art. 22). [5]
- Juncus* subsect. *Nodosi* [RYDB.] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 123, 1990. [5]
- Juncus* sect. *Nodulosi* COUT., Bol. Soc. Brot. 8: 90 et 107, 1890. LT (**designated here**): *Juncus heterophyllus* DUFOR. [5]
- \**Juncus* [unranked] *Nomalosperma* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 534, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Obtusiflori* ROUY, Fl. Fr. 13: 233, 1912. T: *Juncus obtusiflorus* HOFFM. [5]
- Juncus* subsect. *Obtusiflori* (ROUY) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 123, 1990. [Note: Type erroneously selected by NOVIKOV: *Juncus subnodulosus* SCHRANK]. [5]
- Juncus* sect. *Ochracei* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. T: *Juncus ochraceus* BUCHENAU. [4]
- Juncus* subsect. *Oronenses* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 113, 1990. T: *Juncus oronensis* FERNALD. [8]
- Juncus* sect. *Ozophyllum* DUMORT., Fl. Belg. 142, 1827. LT (**designated here**): *Juncus acutiflorus* Hoffm. [Note: *Juncus oxycarpus* KUNTH was selected as LT erroneously by NOVIKOV 1990: 122]. [5]
- Juncus* subgenus *Ozophyllum* (DUMORT.) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 534, 1935, nom. illeg. (Art. 52, subg. *Septati* BUCHENAU included). [5]
- Juncus* subsect. *Ozophyllum* (DUMORT.) NOVIKOV, Novosti Sist. Vyssh. Rast. 19: 59, 1982. [Note: NOVIKOV (1990) typified the basionym on p. 122 by the name *Juncus oxycarpus* and subsect. *Ozophyllum* by *Juncus articulatus* L. on p. 124.] [5]
- \**Juncus* [ryad] *Papilloi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 540, 1935, nom. inval. (Art. 36.1).
- \**Juncus* ser. *Papilloi* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 81, 1938, nom. inval. (Art. 36.1).
- \*genus *Phylloschoenus* FOURR., Ann. Soc. Linn. Lyon, sér. 2, 17: 171, 1869, nom. inval.
- Juncus* ser. *Perennes* BUCHENAU in ENGL., Pflanzenreich 4/36: 238, 1906. LT (**designated here**): *Juncus lomatoxyllus* SPRENGEL. [2]
- Juncus* subsect. *Plebeji* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 114, 1990. T: *Juncus plebejus* R. Br. (= *Juncus bufonius* L. s. l.) [7]
- Juncus* subgenus *Poiophylli* BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. T: *Juncus bufonius* L. [7]
- Juncus* sect. *Poiophylli* (BUCHENAU) ROUY, Fl. Fr. 13: 251, 1912 [“*Juncus* sect. XVI. *Paeophylli*”, an orthographic variant]. Isonym: VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam., ed. 2, 15a: 215, 1930. [7]
- Juncus* subsect. *Poiophylli* (BUCHENAU) NOVIKOV, Nov. Sist. Vyssh. Rast. 19: 52, 1982. [7]
- \**Juncus* [ryad] *Prismatocarpi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 540, 1935, nom. inval. (Art. 36.1).
- \**Juncus* ser. *Prismatocarpi*, SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 88, 1938, nom. inval. (Art. 36.1).
- Juncus* sect. *Pseudostygii* ROUY, Fl. Fr. 13: 231, 1912. T: *Juncus jacquinii* L. [9]
- Juncus* subgenus *Pseudotenageia* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 527, 1935 [Note: Valid through citation of Buchenau’s “*Junci poiophylli* BUCHENAU pro sp. perennibus]. LT (SNOGERUP 1971: 11): *Juncus compressus* JACQ. [8]
- Juncus* sect. *Pseudotenageia* (V.I. KREZC. et GONTSCH.) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 49, 1938. [8]
- Juncus* sect. *Pungentes* COUT., Bol. Soc. Brot. 8: 89 et 96, 1890. LT (**designated here**): *Juncus acutus* L. [1]
- Juncus* sect. *Pygmaei* ROUY, Fl. Fr. 13: 249, 1912. T: *Juncus pygmaeus* RICH. ex THUILL. (Art. 22.5). [5]
- Juncus* subsect. *Pygmaei* (ROUY) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 122, 1990. [5]
- Juncus* subsect. *Pyramidati* [V.I. KREZC. et GONTSCH. ex] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 123, 1990. T: *Juncus kotschyi* BUCHENAU. [5]
- \**Juncus* [ryad] *Pyramidati* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 539, 1935, nom. inval. (Art. 36.1).
- \**Juncus* [ryad] *Ranarii* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 518, 1935, nom. inval. (Art. 36.1).
- Juncus* subsect. *Regelii* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 119, 1990. T: *Juncus marginatus* ROSTK. [2]
- Juncus* subsect. *Repentes* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 120, 1990. T: *Juncus repens* MICHX. [2]

- Juncus* subsect. *Roemeriani* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 117, 1990. T: *Juncus roemerianus* SCHEELE. [1]  
 \**Juncus* [ryad] *Salsuginosi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 530, 1935, nom. inval. (Art. 36.1).
- Juncus* [Rotte] *Scaposi* (RCHB.) NEILR., Fl. Nieder-Oesterr. 145, 1859. The basionym not seen. [9].
- Juncus* sect. *Scheuchzerioidei* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. T: *Juncus scheuchzerioides* Gaudich. [5]
- Juncus* subsect. *Scheuchzerioidei* (NOVIKOV) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 122, 1990. T: *Juncus scheuchzerioides* GAUDICH. [a combination through homotypic status]. [5]
- Juncus* subgenus *Septati* BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. LT (SNOGERUP 1971): *Juncus oxycarpus* KUNTH. [5]
- Juncus* sect. *Septati* (BUCHENAU) VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam. ed. 2, 15a: 217, 1930. [5]
- Juncus* subsect. *Septati* (BUCHENAU) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 124, 1990. T: *Juncus oxycarpus* KUNTH. [a combination through homotypic status]. [5]
- Juncus* sect. *Sikkimensis* K.F. WU, Acta Phytotax. Sin. 32: 461, 1994. T: *Juncus sikkimensis* Hook. f. [4]
- Juncus* subgenus *Singulares* BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. T: *Juncus singularis* STEUD. [2]
- Juncus* sect. *Singulares* (BUCHENAU) KUNTZE in POST et KUNTZE, Lex. Gen. Phaner. 303, 1903 ["Singularia"]; isonym: WEIM., Svensk Bot. Tidskr. 40: 161, 1946. [2]
- Juncus* subsect. *Singulares* (BUCHENAU) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. [2]  
 \**Juncus* [ryad] *Soranthi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 531, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked, "Abtheilung"] *Sparsiflori* PETERM., Deutschl. Fl. 592, 1849. LT (**designated here**): *Juncus compressus* JACQ. [8]
- Juncus* sect. *Sphacelati* K.F. WU, Acta Phytotax. Sin. 32: 465, 1994. T: *Juncus sphacelatus* DECNE. [4]  
 \**Juncus* [ryad] *Sphacelati* V.I. KREZC. et GONTSCH., Fl. SSSR 3: 524, 1935, nom. inval. (Art. 36.1).  
 \**Juncus* [ryad] *Sphaerocarpi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 516, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Squarrosi* [FR. ex] T. MARSSON, Fl. Neu-Vorpommern 451, 1869; ROUY, Fl. Fr. 13: 246, 1912. T: *Juncus squarrosus* L. (Art. 22.5). [8]  
 \**Juncus* [unranked] *Squarrosi* FR., Summa Veg. Scand. 1: 66, 1845, nom. inval., nudum.
- Juncus* subsect. *Squarrosi* [ROUY] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 114, 1990. T: *Juncus squarrosus* L. [8]  
 \**Juncus* [ryad] *Squarrosi* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 532, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Steirocaulos* GRISEB., Spicil. 2: 405, 1845. LT (**designated here**): *Juncus effusus* L. [9]
- Juncus* [cikl] *Steirocaulos* (GRISEB.) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 546, 1935. [9]
- Juncus* subsect. *Steirocaulos* (GRISEB.) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 55, 1938. [9]
- Juncus* sect. *Styirochloa* GRISEB., Spicil. 2: 407, 1845. LT (**designated here**): *Juncus gerardii* LOISEL. [8]
- Juncus* sect. *Stygii* [FR. ex] ROUY, Fl. Fr. 13: 232, 1912. T: *Juncus stygius* L. (through citation of FR.) [4]  
 \**Juncus* [unranked] *Stygii* FR., Summa Veg. Scand. 66, 1845, nom. inval., nudum.  
 \**Juncus* ser. *Stygii* (ROUY) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 71, 1938, nom. inval., nudum.
- Juncus* subsect. *Stygii* (ROUY) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 118, 1990 [4]  
 \**Juncus* [cikl] *Stygii* V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 523, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Stygiopsis* [GAND. ex] KUNTZE in POST et KUNTZE, Lex. Gen. Phaner. 303, 1903. T: [a new name for subg. *Alpini* (ENGELM.) BUCHENAU] *Juncus triglumis* L. [4]
- Juncus* subgenus *Stygiopsis* (KUNTZE) V.I. KREZC. et GONTSCH. in KOM., Fl. SSSR 3: 520, 1935, nom. illeg. (Art. 52) [subg. *Alpini* included]. [4]  
 \**Juncus* sect. *Subcapitati* SCHUR, Enum. Pl. Transsilv. 684, 1866, nom. inval., nudum.
- Juncus* sect. *Subnodulosi* WEIM., Svensk Bot. Tidskr. 40: 153, 1946. T: *Juncus subnodulosus* SCHRANK (Art. 22.5). [5]
- Juncus* sect. *Subsegregatiflores* COUT., Bol. Soc. Brot. 8: 89 et 99, 1890. LT (**designated here**): *Juncus bufonius* L. [7]
- Juncus* [unranked] *Subtriflori* RYDB., Fl. Rocky Mts. 150, 1917. T: *Juncus subtriflorus* (E. MEY.) COVILLE (Art. 22). [9]
- Juncus* subgenus *Subulati* BUCHENAU, Bot. Jahrb. 1: 118, 1880. T: *Juncus subulatus* FORSSK. [10]

- Juncus* sect. *Subulati* (BUCHENAU) ROUY, Fl. Fr. 13: 245, 1912. [10]  
 \**Juncus* [ryad] *Supini* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 537, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Supini* ROUY, Fl. Fr. 13: 243, 1912. T: *Juncus supinus* MOENCH. [5]  
*Juncus* sect. *Tenageia* DUMORT., Fl. Belg. 142, 1827. T: *Juncus tenageia* L. f. (Art. 22). [7]  
*Juncus* subgenus *Tenageia* (DUMORT.) V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 515, 1935, nom. illeg. (Art. 52) [“*Junci poiophylli* Buch. (pro sp. annuis)” cited]. [7]  
 \**Juncus* [ryad] *Tenageia* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 515, 1935, nom. inval. (Art. 36.1).
- Juncus* subsect. *Tenageia* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 112, 1990. [7]  
*Juncus* [unranked] *Tenues* ENGELM., Trans. Acad. Sci. St. Louis 2: 434, 1866. T: *Juncus tenuis* WILLD. (Art. 22.5). [8]  
 \**Juncus* [ryad] *Tenues* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 533, 1935, nom. inval. (Art. 36.1).
- Juncus* sect. *Tenues* [ENGELM.] ROUY, Fl. Fr. 13: 246, 1912. T: *Juncus tenuis* WILLD. (Art. 22.5). [Note: Published without a reference to Engelmann but based on the same type]. [8]  
*Juncus* subsect. *Tenues* [ENGELM.] NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol., 95: 113, 1990. T: *Juncus tenuis* WILLD. [Note: Published without a reference to Engelmann but based on the same type]. [8]  
*Juncus* ser. *Tenues* (ENGELM.) SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 51, 1938. [8]  
*Juncus* sect. *Teretes* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 78, 1938. LT (**designated here**): *Juncus lampocarpus* EHRH. [5]  
*Juncus* [unranked, “Abtheilung”] *Terminiflori* PETERM., Deutschl. Fl. 592, 1849. LT (NOVIKOV 1990: 117: *Juncus triglumis* L. [4]  
*Juncus* sect. *Terminiflori* (PETERM.) NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 117, 1990, nom. illeg. (Art. 52). [4]  
*Juncus* subgenus *Thalassici* BUCHENAU, Abh. Naturw. Vereine Bremen 4: 500, 1875. LT (BALSLEV 1996: 72): *Juncus acutus* L. [1]  
*Juncus* sect. *Thalassici* (BUCH.) VIERH. in ENGL. et PRANTL, Nat. Pflanzenfam. ed. 2, 15a: 216, 1930. [1]  
*Juncus* subsect. *Thomsonii* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 117, 1990. T: *Juncus triglumis* L. [4]  
 \**Juncus* [cikl] *Thysanura* V.I. KREZ. et GONTSCH., Fl. SSSR 3: 533, 1935, nom. inval. (Art. 36.1).
- Juncus* ser. *Triandri* SATAKE in NAKAI et HONDA, Nova Fl. Jap. 1: 76, 1938. LT (**designated here**): *Juncus fauriensis* BUCHENAU. [5]  
*Juncus* sect. *Trifidi* ROUY, Fl. Fr. 13: 232, 1912. T: *Juncus trifidus* L. (Art. 22.5). [8]  
*Juncus* subsect. *Triformes* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 121, 1990. T: *Juncus triformis* ENGELM. [3]  
*Juncus* sect. *Triglumes* K.F. WU, Acta Phytotax. Sin. 32: 459, 1994 (not illegitimate, nor correct). T: *Juncus triglumis* L. [4]  
*Juncus* ser. *Triglumes* [K.F. WU] K.F. WU, Acta Phytotax. Sin. 32: 459, 1994. T: *Juncus triglumis* L. [a combination through homotypic status]. [4]  
 \**Juncus* [ryad] *Triglumes* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 522, 1935, nom. inval. (Art. 36.1).  
 \**Juncus* [cikl] *Triglumes* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 521, 1935, nom. inval. (Art. 36.1).
- Juncus* [unranked] *Unciales* RYDB., Fl. Rocky Mts. 150, 1917. T: *Juncus uncialis* GREENE (Art. 22). [3]  
*Juncus* subsect. *Uniflori* NOVIKOV, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 95: 119, 1990. T: *Juncus uniflorus* W.W. SM. [4]  
 \**Juncus* [cikl] *Uroserma* V.I. KREZ. et GONTSCH. in KOM., Fl. SSSR 3: 543, 1935, nom. inval. (Art. 36.1).