

# International Rock Gardener Index

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Full Index to Issues 1 -119 pages 3-82 Compiled by Glassford Sprunt

Brief Index from 120 to 131 pages 83-84

Full Index from 132 onwards page 85 onwards – Compiled by Ashley Allshire

**SCOTTISH ROCK GARDEN CLUB**

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Grateful thanks are given to our Index makers.

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## SYMBOLS

01/ = Issue Number

/12 = Adobe Reader Page number

/12C = Colour picture

/12D = Drawing

/3P = Painting

; = Divider between Issues

, = Divider between Pages

— = Substitute for name above

/13\* = Diagnoses and descriptions

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Cover image – *Dryas octopetala* in Canada – photo Lori Skulski

# INTERNATIONAL ROCK GARDEN INDEX to 119

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Aberdeen Spring : **53/1C**

**Abies** cilicica : **20/5**

— grandis : **69/25**

— nebrodensis : **84/17**

— sibirica : **97/3**

**Acaena** macrocephala : **63/2C**

**Acanthocalyx** delavayi : **39/8**

— sp. : **115/78C**

**Acantholimon** bracteatum var.

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— caesareum : **12/10**

— reflexifolium : **46/5**

— saxifragiforme : **30/15C; 71/18C**

— sp. in scree : **71/29C**

— trojanum : **12/3**

— ulicinum : **02/15; 100/53C**

— venustum : **02/15; 08/13, 13C; 30/15**

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— — autumn leaves : **34/7C**

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— filicifolium : **34/7**

— ginnala : **34/7**

— griseum : **34/8**

— x mandshurica : **29/7**

— 'Ozakazuki' : **34/3C**

— palmatum atropurpureum : **34/7**

— — dissectum : **94/1C**

— platanoides : **34/7**

**Aceras** anthropophorum : **84/16C;**

**92/16C**

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— clavennae : **57/13**

— coarctata : **75/10**

— millefolium : **02/3; 75/10**

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— vilmorinianum : **29/8**

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**37C**

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— shastense : **69/62**

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— vernalis : **03/18, 18C, 05/3; 09/14C;**  
**65/22**

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— aureum : **110/73C**

— percarneum : **110/74, 74C**

— simsii : **110/72C**

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**26/16C, 17, 17C**

— capitatum : **08/14; 12/13, 13C; 20/7C**

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— glaucescens : **16/11, 11C**

— grandiflorum : **12/13; 78/25C**

— oppositifolium = *Eunomia*

oppositifolia

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**24/13C**

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— schistosum : **04/13, 14; 08/8, 8C;**  
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Cover photo: *Crocus harpkeae* in habitat JJVV-022, photo Jānis Rukšāns.

*CROCUS HARPKEAE* Rukšāns – A NEW CROCUS SPECIES (*Liliiflorae, Iridaceae*) separated from the large complex of the so-called *Crocus chrysanthus* group.

Janis Rukšāns, Dr. biol. h.c. **125/3-14**

Be sure to call it a type of botanical deed poll, not a dead pool. Recent new changes of nomenclature for five South American Hippeastreae. John and Anita (Ana Rosa Flores) **Watson 125/15-19**

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## SYMBOLS

**01/** = Issue Number

**/12** = Adobe Reader Page number

**/12C** = Colour picture

**/12D** = Drawing

**/3P** = Painting

**;** = Divider between Issues

**,** = Divider between Pages

**—** = Substitute for name above

**/13\*** = Diagnoses and descriptions

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- — — pressed : **132/25C**
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- — — leaf/lamina : **132/30C**
- — — seed morphology : **132/26, /33C,**  
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- — — seed vectoring : **132/34**
- — — type specimens : **132/23C**
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- Cistanthe gibbosifolia** : **132/4**  
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— longiscapa : **132/38**  
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**Clarkia gracilis** subsp. *traceyi* : **162/2C**  
— seedlings : **162/62C**  
**Claytonia caroliniana** : **188/20C**  
— parviflora subsp. *grandiflora* : **174/28C**  
— sibirica : **190/14C, /15C**  
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— flammula : **137/10**  
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— corms : **136/3, /6**  
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— flowering period : **136/7**  
— fragrance : **136/4**  
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— — 'Altmarkstern' : **135/18, /19C**  
— — 'Conquest' : **135/11P, /13**  
— — 'Danton' : **135/13**  
— — 'Dombai' (*C. speciosum* cv.) : **135/19**  
— — 'Felbrigg Violet' : **135/14**  
— — 'Ferndown Beauty' : **135/18**  
— — 'Glorie van Holland' : **135/18**  
— — 'Guizot' : **135/18**  
— — 'Hidegkut' : **135/18**  
— — 'James Pringle' : **135/18**  
— — 'Klondike' : **135/18**  
— — 'Lilac Wonder' : **135/11P, /14**  
— — 'Naeisanum' : **135/18**  
— — 'Petrovac' : **135/18**  
— — 'President Coolidge' : **135/18**  
— — 'Pride of Holland' : **135/14**  
— — 'Purity' : **135/18**  
— — 'Rosy Dawn' : **133/41C**  
— — 'Ruby Queen' : **135/18**  
— — 'Surprise' : **135/18**  
— — 'Violet Queen' (*C. speciosum* × *bivonae*) : **135/11-19, /11P**  
— — 'W. Kerbert' : **135/18**  
— — 'Waterlily' : **135/11P, /12, /14**  
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— — capsule : **136/4**  
— — dormancy : **136/5**  
— — hilum : **136/5**  
— — sowing : **136/5**  
— speciation & biodiversity centres : **136/7**  
— toxicity (colchicine) : **136/3**  
— × *agrippinum* : **135/18C**  
— *alberti* : **136/7**  
— — (Kyrgyzstan, Chuy, Ala-Bel Pass) : **136/71C**  
— — corms (Tajikistan, Darwaz, Tovil-Dara) : **136/72C**  
— — A. Seisums selections (Tajikistan, Darwaz, Tovil-Dara) : **136/72C**  
— — 'Janis Ruksans' : **136/72C**  
— — (cf. *C. luteum* × *C. kesselringii*) distribution : **136/10**  
— *alpinum*, distribution : **136/9**

**Colchicum antepense** (Turkey, Adiyaman) :  
**136/46C**

- — (Turkey, Gaziantep) : **136/46C**
- — corms (Turkey, Gaziantep) : **136/46C**
- — distribution : **136/9**
- arenarium (*C. fominii*) (Moldova, Budzhak) :  
**136/32C**
- — — corms (Moldova, Budzhak) :  
**136/32C**
- — (incl. *C. fominii*) distribution : **136/9**
- asteranthum (Greece, Peloponnesus, Arkadia) : **136/33C**
- — corms (Greece, Peloponnesus, Arkadia) :  
**136/33C**
- — distribution : **136/9**
- atticum : **144/81**
- — (Turkey, Denizli) : **136/47C**
- — corms (Turkey, Denizli) : **136/47C**
- — distribution : **136/9**
- — stolon-like cormels : **136/7**
- autumnale, corm tunic : **136/6**
- — daughter corms : **136/7**
- — distribution : **136/9**
- balansae (Turkey, Van) : **136/48C**
- — distribution : **136/9**
- bivonae, distribution : **136/9**
- — (Greece, Samos, Mount Ampelos) :  
**136/34C**
- — corm : **136/6**
- — distribution : **136/9**
- — vs **Sternbergia clusiana** : **136/34C**
- bornmuelleri : **135/11P; 147/17**
- — as syn. of *C. speciosum* or cv group :  
**147/19**
- bulbocodium subsp. *bulbocodium* (France, Alpes Maritimes) : **136/35C**
- — — corm : **136/6**
- — — corms (France, Alpes Maritimes) :  
**136/35C**
- — — daughter corms : **136/7**
- — — distribution : **136/9**
- — subsp. *versicolor* var. *versicolor*  
(Moldova, Transnistria) : **136/35C, /36C**
- — — — (Ukraine, Odessa) : **136/35C**
- — — — corms (Moldova, Transnistria) :  
**136/36C**
- — — — distribution : **136/9**
- burttii (Turkey, Eskişehir) : **136/49C, /50C**
- — (Turkey, Isparta) : **136/49C**
- — corms (Turkey, Eskişehir) : **136/51C**
- — distribution : **136/9**

- candidissimum (Azerbaijan, Lerik) :  
**136/12C**
- — (= **Merendera candidissima**) : **136/8\***
- — corm tunic : **136/6**
- — corms (Azerbaijan, Lerik) : **136/12C**
- — distribution : **136/8**
- chimonanthum (Greece, Thessaloniki) :  
**136/36C**
- — corms : **136/36C**
- — distribution : **136/9**
- corsicum, distribution : **136/9**
- crocifolium (Iran, Kermanshah) : **136/52C**
- — (Turkey, Gaziantep) : **136/52C**
- — (Turkey, Siirt) : **136/51C**
- — corms (Iran, Kermanshah) : **136/51C**
- — distribution : **136/9**
- davisii (Turkey, Adana) : **136/53C**
- — corm : **136/6**
- — distribution : **136/9**
- decaisnei, corm : **136/6**
- — distribution : **136/9**
- doerfleri (North Macedonia, Kumanovo) :  
**136/37C**
- — (North Macedonia, Skopje) : **136/37C**
- — corm tunic : **136/6**
- — corms (North Macedonia, Skopje) :  
**136/37C**
- — distribution : **136/9**
- eichleri (Azerbaijan, Gobustan) :  
**136/11C**
- — (Azerbaijan, Ismailli) : **136/11C**
- — corms (Azerbaijan, Gobustan) : **136/11C**
- — distribution : **136/8**
- cf. *eichleri* : **184/26C**
- figlalii (Turkey, Muğla) : **136/53C, /54C**
- — corms (Turkey, Muğla) : **136/54C**
- — distribution : **136/9**
- freynii (Iran, Ardabil) : **136/13C**
- — (Iran, Jolfa) : **136/13C**
- — (*C. zangezorum*) (Armenia, Meghri) :  
**136/13C**
- — corm : **136/6**
- — corm tunic : **136/6**
- — corms (Iran, Ardabil) : **136/1C, /13C**
- — stolon-like cormels : **136/7**
- — (incl. *C. zangezorum*) distribution :  
**136/8, /9**
- giganteum hort. : **135/12**
- — as syn. of *C. speciosum* or cv group :  
**147/20**
- greuteri (Armenia, Aragatsotn) : **136/14C**

**Colchicum greuteri**, corm tunic : **136/6**

- — corms (Armenia, Aragatsotn) : **136/14C**
- — distribution : **136/8**
- hirsutum (Turkey, Sivas) : **136/55C**
- — (Turkey, Tunceli) : **136/54C**
- — corm tunic : **136/6**
- — corms (Turkey, Sivas) : **136/55C**
- hirsutum, distribution : **136/9**
- hyrcanicum (syn. *C. speciosum* var. *lenkoranicum*) : **147/19**
- hungaricum, corm : **136/6**
- — (Croatia, Dalmatia) : **136/38C**
- — daughter corms : **136/7**
- — distribution : **136/9**
- — 'Velebit Star' (Croatia, Velebit) : **136/38C**
- jolantae : **136/7, /8**
- — (= *Merendera jolantae*) : **136/8\***
- — (Iran, North Khorasan, Kopet Dag) : **136/73C**
- — (Turkmenistan, Balkan, Kopet Dag) : **136/73C**
- — corm : **136/6**
- — corms (Turkmenistan, Balkan, Kopet Dag) : **136/73C**
- — distribution : **136/10**
- kackarensense : **147/2, /17-41, /22\***
- — conservation status : **147/28**
- — corms : **147/22C**
- — distribution : **147/27C**
- — etymology : **147/28**
- — gynoecium & androecium (Georgia, Racha-Lechkhumi & Kvemo Svaneti region) BARAKA-062 : **147/25C**
- — — BARAKA-063 as *C. speciosum* : **147/29C**
- — — LST-313 (Turkey, Artvin, Kaçkar Mts.) : **147/24C**
- — habitat : **147/28**
- — holotype sheet (GB!) : **147/23**
- kackarensense, key : **147/38-39**
- — LST-292 (Turkey, Artvin, Kaçkar Mts.) : **147/2C, /23C, /38**
- — LST-313 (Turkey, Artvin, Kaçkar Mts.) : **147/21C, /27, /38**
- — phenology : **147/28**
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- kesselringii : **135/33C, /35, /36; 136/7; 182/3; 185/6C**
- — (Kyrgyzstan, Alay Valley) : **136/75C**
- — corm tunic : **136/6**
- — corms (Kyrgyzstan, Alay Valley) :

**136/76C**

- — distribution : **136/10**
- — infraspecific hyb. 'My Choice' : **136/7, /74C**
- — — 'Purple Star' : **136/7, /74C**
- — aff. (= *C. luteum* f. *alba*) 'Snow of Highland' : **136/7**
- — — 'Yeti' : **136/7**
- — f. *albiflora* (Uzbekistan, Alay Mountains, Fergana) : **136/76C**
- — — distribution : **136/10**
- kotschyi : **150/14**
- — (Iran, Zanzan) : **136/56C**
- — distribution : **136/9**
- kurdicum : **135/28C; 187/40C, /41**
- — (Iran, Golestan) : **136/56C**
- — (Turkey, Van, Karabet Pass) : **136/57C**
- — corm : **136/6**
- — corms (Turkey, Van, Karabet Pass) : **136/57C**
- — distribution : **136/9**
- — locus classicus : **187/36, /37C**
- laetum (Russia, Eastern Stavropol) : **136/15C**
- — corm tunic : **136/6**
- — corms (Russia, Eastern Stavropol) : **136/14C**
- — distribution : **136/8**
- — seeds : **136/4C, /6C**
- lagotum (Turkey, Erzurum) : **136/58C**
- — corms (Turkey, Erzurum) : **136/57C**
- — distribution : **136/9**
- leptanthum (Turkey, Erzurum) : **136/58C**
- — (Turkey, Tunceli) : **136/58C**
- — corm tunic : **136/6**
- — corms (Turkey, Erzurum) : **136/58C**
- — distribution : **136/9**
- lenkoranicum (syn. *C. speciosum* var. *lenkoranicum*) : **147/19**
- liparochiadys (as syn. of *C. woronowii*, *C. speciosum*) : **147/19**
- liparochlamis (as syn. of *C. woronowii*, *C. speciosum*) : **147/19**
- luteum : **135/36; 136/7; 140/12, /23; 181/32**
- — (Kyrgyzstan, Chuy, Ala-Bel Pass) : **136/76C, /77C**
- — corms (Tajikistan, Vakhsh) : **136/80C**
- — distribution : **136/10**
- — seed hilum : **136/5**
- — infraspecific hyb. 'Carrot Line' : **136/7,**

**/78C**

**Colchicum luteum** hyb. 'Golden Baby' : **136/7**

— — — 'Golden Elf' : **136/7**

— — — 'Lucky Selfmade' : **136/7, /78C, /79C**

— — — 'Minion' : **136/7**

— — — 'Selena' : **136/7**

— — — 'Vahsh' : **136/7, /77C, /78C**

— — — — corms (Kyrgyzstan, Chuy, Ala-Bel Pass) : **136/80C**

— — f. alba : **136/7**

— — — distribution : **136/10**

— — — 'Snow of Highland' : **136/80C**

— — — — corms : **136/81C**

— — — 'Yeti' : **136/79C**

— macrophyllum (Greece, Rhodes) : **136/39C**

— — corm : **136/6**

— — corm tunic : **136/6**

— — distribution : **136/9**

— manissadjianii (Turkey, Amasya) : **136/59C**

— — corm : **136/6**

— — corms (Turkey, Amasya) : **136/59C**

— — distribution : **136/9**

— — stolon-like cormels : **136/7**

— micaceum (Turkey, Denizli) : **136/60C**

— — distribution : **136/9**

— minutum (Turkey, Antalya) : **136/61C**

— — corm : **136/6**

— — corms (Turkey, Antalya) : **136/61C**

— — distribution : **136/9**

— mirzoevae (Armenia, Tavush) : **136/16C**

— — corms (Armenia, Tavush) : **136/17C**

— — distribution : **136/9**

— montanum (Spain, Maestrazgo) :

**136/40C**

— — corms (Spain) : **136/40C**

— — distribution : **136/9**

— munzurensis (Turkey, Tunceli) : **136/62C**

— — corm : **136/6**

— — corms (Turkey, Tunceli) : **136/61C**

— — daughter corms : **136/7**

— — distribution : **136/10**

— neapolitanum : **135/18**

— persicum (Iran, Fars) : **136/63C**

— — (Iran, Markazi) : **136/63C**

— — distribution : **136/10**

— poliphyllum, distribution : **136/10**

— pusillum (Greece, Naxos) : **136/41C**

— — distribution : **136/9**

— raddeanum (Iran, Gilan) : **136/18C**

— — (Iran, Kuhha-(y)e-Sabalan) : **136/17C, /18C**

— — corm tunic : **136/6**

— — corms (Armenia, Vayots Dzor) : **136/17C**

— — distribution : **136/9, /10**

— robustum : **136/7, /8**

— — white & pink forms (Iran, North Khorasan, Kopet Dag) : **136/81C, /82C, /83C**

— — corms vs. *C. jolantae* (Iran, North Khorasan, Kopet Dag) : **136/84C**

— — distribution : **136/10**

— — seed hilum : **136/5**

— — seeds : **136/5C**

— sanguicolle (Turkey, Antalya) : **136/64C**

— — (Turkey, Muğla) : **136/64C**

— — distribution : **136/10**

— serpentinum (Turkey, Konya) : **136/65C**

— — (Turkey, Sivas) : **136/65C**

— — (Turkey, Tunceli) : **136/64C, /65C**

— — corm tunic : **136/6**

— — corms (Turkey, Konya) : **136/65C**

— — distribution : **136/10**

— sfikasianum (Greece, Southern Peloponnesus) : **136/41C**

— — distribution : **136/9**

— sibthorpii : **135/12**

— sieheanum (Turkey, Mersin) : **136/66C**

— — distribution : **136/10**

— soboliferum (Turkey, Van) : **136/67C**

— — corm : **136/6**

— — corm tunic : **136/6**

— — corms (Turkey, Van) : **136/67C**

— — distribution : **136/10**

— — seed hilum : **136/5**

— sp. (NW Iran) : **150/58, /65; 160/20**

— — autumn-flowering (NW Iran) : **187/32, /58**

— — spring-flowering (NW Iran) : **187/30, /32, /40C, /41**

— — (Turkey, Burdur, Katrancık Dağı) : **162/33**

— — (Turkey, Van) : **160/7**

— speciosum : **135/12; 141/51; 147/17, /18D, /27, /32, /35, /38; 184/48C, /56**

— — (Georgia, Abkhazia) : **136/19C, /22C**

— — (Georgia, Abkhazia, Berchil Ridge) : **147/36C**

— — (Iran, Talysh) : **136/22C**

— — (Iran, Gilan Province, Talysh Mts., Kuhha-ye Tales) : **147/34C**

— — (Russia, North Caucasus, Dombai) : **136/20C, /21C**

— — (Russia, Karachay-Cherkessia, Dombay) : **147/28C**

- — — (Dombay-Ulgen & Alibek Gorges) :  
**147/36**
- Colchicum speciosum** (Turkey, Bayburt Province, Soğanlı Pass) : **147/30, /31C, /38**
- — aneuploidy : **147/20**
- — BARAKA-062 : **147/29C**
- — daughter corms : **136/7**
- — distribution : **136/9; 147/19, /27C**
- — — in Iran : **147/34**
- — 'Dombai' : **135/19**
- — f. Album (Turkey, Gümüşhane Province, Zigana Pass) : **147/30C, /38**
- — gynoeceium & androeceium (Turkey, Ordu Province) : **147/26C**
- — habitat (Iran, Gilan Province) : **147/32C**
- — — — Talysh Mts., Kuhha-ye Tales :  
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- — key : **147/38-39**
- — 'Ordu' : **147/30**
- — *sensu lato* : **147/20**
- — synonyms : **147/19**
- — — var. lenkoranicum : **147/19**
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- szovitsii, corm : **136/6**
- — corm tunic : **136/6**
- — daughter corms : **136/7**
- szovitsii agg. C. bifolium (Armenia, Lori) :  
**136/25C, /26C**
- — — (Armenia, Mount Aragats) : **136/25C**
- — — corms (Armenia, Lori) : **136/26C**
- — — f. alba : **136/24C**
- szovitsii agg. C. ninae : **136/24C**
- — — (Armenia, Vayots Dzor, Jermuk) :  
**136/27C**
- — — corms (Armenia, Vayots Dzor, Jermuk) : **136/27C**
- — subsp. brachyphyllum (Turkey, Gaziantep) : **136/68C**
- — — corms (Turkey, Gaziantep) : **136/68C**
- — — distribution : **136/10**
- — subsp. szovitsii : **133/49C, /50C**
- — — (Armenia, Vayots Dzor) : **136/23C**
- — — (Iran, Kuhha-(y)e-Sabalan) : **136/23C**
- — — (incl. C. bifolium, C. ninae)  
distribution : **136/9**
- — subsp. szovitsii s.s. (Armenia) : **136/24C**
- — — corms (Armenia, Vayots Dzor) :  
**136/24C**
- cf. szovitsii (NW Iran) : **149/76; 187/26**
- trigynum (= *Merendera trigyna*) : **136/8**
- — (Armenia, Lori) : **136/28C**
- — pink & white forms (Russia, North Caucasus, Karachay-Cherkess Republic) :  
**136/29C**
- — corm tunic : **136/6**
- — corms (Armenia, Lori) : **136/29C**
- — distribution : **136/9, /10**
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- — (Ukraine, Odessa, Hadzhibey Estuary) :  
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- — corm tunic : **136/6**
- — corms (Iran, Semnan) : **136/43C**
- — — (Ukraine, Eastern Crimea) : **136/43C**
- — diseased corms : **165/16C**
- — distribution : **136/9, /10**
- turcicum (Bulgaria, Eastern Rhodopes) :  
**136/44C**
- — (Greece, Macedonia) : **136/44C**
- — distribution : **136/9**
- umbrosum (Ukraine, Crimea) : **136/30C**
- — distribution : **136/9**
- varians, corm tunic : **136/6**
- — corms (Iran, Markazi) : **136/69C**
- — distribution : **136/10**
- — pink & white forms (Iran, Markazi) : **136/69C**
- — stolon-like cormels : **136/7**
- variegatum : **135/24C, /26**
- — (Greece, Ikaria) : **136/45C**
- — (Greece, Naxos) : **136/45C**
- — distribution : **136/9**
- wendelboi (Iran, Bakhtiari) : **136/70C**
- — (Iran, Lorestan) : **136/70C**
- — corms (Iran, Lorestan) : **136/70C**
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- Colobanthus quitensis** : **152/37**
- — [cultivation](#) : **152/37**

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— Sect. *Nudiscapus* : 172/4; 184/4  
— — Ser. *Adamii* : 150/48; 172/7, /8; 184/6, /7, /17  
— — — Iran : 172/2, /3, /5, /7, /22, /23  
— — — — *Furse* 5114 : 184/17, /18C  
— — — — key : 172/23-24  
— — — — key, illustrated : 172/25-28  
— — — — localities map : 172/4C, /6C, /8C  
— — Ser. *Biflori* : 150/48; 182/42, /43  
— — — sensu Mathew : 162/40  
— — Ser. *Orientalis* : 172/5  
— — Ser. *Reticulati* : 182/42  
— — Ser. *Speciosi* : 182/2, /12, /13, /19, /31, /32, /33, /42, /44, /50  
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— — — distribution : 182/13, /15, /42  
— — — ecological preferences : 182/17  
— taxonomy : 162/3, /4, /5; 172/3  
— — (based on) genetic differentiation, markers : 172/6; 184/6  
— — (based on) herbarium specimens : 172/6  
— — — limitations : 172/6  
— — importance of living plants : 172/5  
— *adamii* : 150/48, /59; 172/4, /7; 184/4, /5  
— *adamii* group HKEP 1631 : 187/32  
— *alatavicus* : 135/36, /37C; 169/27C, /28C, /29C; 181/29C, /32  
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— *alborzensis* : 184/19-20\*, /20C, /21, /24C, /26  
— — 24IRS-019 : 184/17, /18C, /24C  
— — corms, tunics : 184/21C, /22C  
— — distinguishing features : 184/21  
— — etymology : 184/20  
— — flower details : 184/25C  
— — habitat : 184/18C, /19

- Crocus alborzensis**, holotype : **184/19, /23C**
- almezensis : **149/72C; 150/35, /48, /91; 172/5, /6, /22C, /23, /25C; 184/6, /17, /18C**
  - antalyensis : **162/32, /46**
  - — subsp. gemicii : **182/12**
  - — subsp. striatus : **182/12**
  - archibaldiorum : **147/32; 172/4; 182/17, /26, /43, /44; 184/4**
  - — WHIR-129 (Talysh, W. Iran) : **182/18C**
  - armeniensis 13ARM-067 (Goris, Armenia) : **182/17C**
  - athous : **162/6, /8C, /11**
  - atticus : **162/6C, /11**
  - autranii : **147/35; 162/30 ; 182/26**
  - avromanicus : **172/5, /9, /10, /11C, /12C, /14-15\*, /22C, /23, /24, /28C ; 184/7, /13C ; 187/59C, /61**
  - — 17IRS-055 : **172/9, /10, /12C, /13C**
  - — — corms : **172/16C**
  - — — corm tunics, basal rings : **172/18C**
  - — 17IRS-058 : **172/9, /10**
  - — — corm tunics, basal rings : **172/17C**
  - — — corms : **172/16C**
  - — — flower details : **172/19C**
  - — — leaves : **172/19C**
  - — — stigmatic branches : **172/19C**
  - — basal tunic : **172/16C**
  - — cataphylls : **172/18C**
  - — corms : **172/15C**
  - — distinction from other Iranian Series Adamii : **172/21**
  - — etymology : **172/15**
  - — habitat, distribution : **172/14; 184/8C; 187/58**
  - — herbarium sheets : **172/20C, /21C**
  - — holotype (TUH 60020) : **172/10, /14, /21C**
  - — light form : **172/12C**
  - — localities : **172/9C**
  - azerbaijanicus : **150/52, /58-59\*, /60C, /61C, /62C, /63C, /91; 172/22C, /24, /26C**
  - — corm tunics : **150/59C**
  - — distribution : **150/58**
  - — etymology : **150/59**
  - — habitat : **150/57C**
  - — holotype : **150/64C**
  - — leaf morphology : **150/60C**
  - — separation from *C. adamii* : **150/59**
  - balansae : **144/66**
  - baytopiorum : **135/21**
  - biflorus : **150/48; 189/6**
  - — subsp. biflorus (several taxa under) : **147/20**
  - — subsp. isauricus : **135/21**
  - — subsp. nubigena : **135/21C**
  - — sensu lato : **162/41**
  - 'biflorus' Iranian group : **172/4, /7 ; 184/4, /5**
  - bolensis JATU-080 (Abant, Bolu, N. Turkey) : **182/18C, /19**
  - bozdagensis : **162/22-23\*, /24C, /25C**
  - — albino form : **162/21, /24C, /25C**
  - — corms, tunic, cormlets : **162/26C**
  - — etymology : **162/24**
  - — flower details : **162/25C**
  - — habitat & distribution : **162/22**
  - — holotype : **162/22, /27C**
  - — in habitat : **162/22C**
  - — leaf morphology : **162/25C**
  - — location : **162/21C**
  - — seedpods : **162/26C**
  - — seeds : **162/27C**
  - — separation from *CC. thirkeanus* & *gargaricus* : **162/23**
  - brachyphilus : **182/19**
  - — (Akseki, S Turkey) : **182/20C**
  - brickellii : **162/28, /29, /31**
  - — 12TU-020 : **162/30C**
  - — locations : **162/33C**
  - — yellow form : **162/30C**
  - bydzowskyanus : **162/33-35\*, /46, /52**
  - — BATM-471 : **162/32, /34, /37C**
  - — (Turkey, Konya province, Beyşehir-Ibradi) JP 91-13, flower parts : **162/37C**
  - — — leaf morphology : **162/37C**
  - — JP 91-13B : **162/32, /33, /35C**
  - — R2CV-047 : **162/1C, /32, /34, /36C ; 163/2**
  - — etymology : **162/35**
  - — habitat & distribution : **162/33**
  - — holotype : **162/33, /39C**
  - — locations : **162/33C**
  - — pollination : **162/38C**
  - — recognition : **162/34**
  - — seeds & seedpods : **162/38C**
  - cancellatus : **144/54; 162/6; 184/6**
  - — ARG1-103 : **144/55C**
  - caspius : **160/29, /32; 172/5; 182/42 ; 184/17**
  - chiaicus : **150/73C, /73-75\*, /78C, /79C, /91; 172/22C, /23, /24, /27C; 187/50C, /52, /53**

- Crocus chiaicus** 18IRS-059 : **150/77C**
- — corm tunics : **150/76C**
  - — corms : **150/76C**
  - — distribution : **150/73**
  - — etymology : **150/75**
  - — flower details : **150/77C**
  - — habitat : **150/73 ; 187/52C**
  - — holotype : **150/77C**
  - — leaf morphology : **150/75C**
  - — locus classicus : **187/49C**
  - — separation from *C. dolatyarii* : **150/75**
  - *chionophilus* : **150/80-81\***, **/85C**, **/86C**, **/87C**, **/88C**, **/91 ; 172/22C**, **/23**, **/26C**; **184/7**, **/13C**
  - — 22IRS-035 : **150/89**
  - — distribution : **150/49C**; **184/8C**
  - — corm tunics : **150/84C**
  - — distribution : **150/80**
  - — etymology : **150/82**
  - — flower details : **150/84C**
  - — habitat : **150/80C**
  - — holotype : **150/83C**
  - — leaf morphology : **150/84C**; **184/16C**
  - — seed capsule & seeds : **150/1C**, **/82C**
  - — separation from *C. adamii* : **150/82**
  - *christianii* : **162/51-52\***
  - — RIGA-028 (Turkey, nr. Beyşehir Gölü, Fela) : **162/46**, **/51**, **/52**, **/53C**, **/56C**
  - — — flower parts : **162/53C**
  - — — leaf morphology : **162/54C**
  - — — seedpods & seeds : **162/54C**
  - — etymology : **162/52**
  - — habitat & distribution : **162/51**
  - — holotype : **162/51**, **/55C**
  - — recognition : **162/52**
  - cf. *christianii* : JP 87-89 (Turkey, Konya, Beyşehir-Sarki Karagaç) : **162/46**, **/47C**
  - — KPPZ-354 (Turkey, Konya, Beyşehir-Akseki) : **162/46**, **/47C**
  - — RIGA-002 (Turkey, Konya, nr. Üzümlü) : **162/46**, **/47C**
  - *chrysanthus* : **133/52**; **150/48**; **164/9**; **172/6**
  - — s.l. : **184/6**
  - cf. *chrysanthus* : **162/20**, **/22**
  - [cobbii](#) : **164/2**
  - *concinus* : **151/6C**
  - *cvijicii* : **152/7**
  - *damascenus* : **144/55**; **150/49**, **/65**, **/73**; **187/32**, **/33**, **/55**
  - — JJVV-039 : **144/55C**
  - — s.l. : **182/42**
  - *danfordiae* : **162/30**, **/34**, **/40**, **/46**; **172/7**; **184/6**
  - — complex : **162/28-56**
  - — distribution (Güner's map) : **162/44C**
  - — *fide* Maw : **162/28**, **/30**, **/31**, **/32**, **/34**, **/40**, **/52**
  - — — description : **162/28-29**
  - — sensu lato : **162/28**, **/29**, **/30**, **/32**, **/40**, **/41C**
  - — — 12TU-008 (Turkey, Muğla/Antalya, nr. Bekçiler) : **162/46**, **/50C**
  - — — 14TUS-011 (Turkey, Antalya, Ekizce yaila) : **162/46**, **/49C**
  - — — 14TUS-013B (Turkey, Antalya, Altinyaka-Antalya, Sarichinardağ) : **162/30**, **/46**, **/50C**
  - — — BATM-391 (Turkey, Kahramanmaraş, nr. Göksun) : **162/41**, **/43C**
  - — — BATM-402 (Turkey, Adana, Kaan gec.) : **162/41**, **/43C**, **/44C**
  - — — JATU-014 (Turkey, Kütahya, Kütahya-Gediz) : **162/47**, **/50C**
  - — — JJVV-024 (Turkey, Adana, Kaan gec.) : **162/41**
  - — — JJVV-052 (Turkey, Antalya, Ekizce yaila) : **162/30**, **/46**, **/49C**
  - — — JRRK-085 (Turkey, Sivas, Mazıkıran gec.) : **162/41**, **/44C**
  - — — JRRK-089 (Turkey, Kayseri, Ziyarettepesi Geçidi) : **162/41**
  - — — KPPZ-274 (Turkey, Ankara, Kuyuklu Dağ) : **162/41**
  - — — KPPZ-274A : **162/42C**
  - — — KPPZ-292 (Turkey, Sivas, Gurun-Pınarbaşı) : **162/41**, **/42C**
  - — — localities : **162/45C**
  - — — LST-014 (Turkey, Isparta, Bahtiyar) : **162/46**, **/48C**
  - — — LST-022 (Turkey, Akşehir/Konya, Sultan Dağları) : **162/46**, **/48C**
  - — — LST-044 (Turkey, Konya, nr. Akşehir) : **162/47**, **/50C**
  - — — LST-347 (Turkey, Malatya/Kahramanmaraş, Malatya-Elbistan) : **162/41**, **/43C**
  - — — LST-365 (Turkey, Kayseri, Ziyarettepesi Geçidi) : **162/41**, **/43C**
  - — — RUDA-096 (Turkey, Kayseri, Dokuzdolanbaç gec.) : **162/41**, **/42C**
  - — — RUDA-099 (Turkey, Adana, Kaan gec.)

- : **162/41**
- Crocus danfordiae** subsp. *kurdistanicus* (now *C. kurdistanicus*) : **149/73; 150/49**
- *dolatyarii* : **149/2, /70-90, /76-78\*, /82C, /84C, /85C, /87C, /88C, /89C; 150/91; 172/22C, /23, /25C; 187/39C, /42, /43, /45, /46C, /48C, /52**
  - — as 'sp., biflorus group' : **149/70, /71C**
  - — — flower details : **149/70C**
  - — corm tunics : **149/83C**
  - — distribution map : **149/84C; 150/49C**
  - — etymology : **149/78**
  - — habitat & distribution : **149/76**
  - — holotype : **149/76, /80C**
  - — in habitat : **149/76C, /78C**
  - — isotype (RIG! 22IRS-076) : **149/76, /81C**
  - — leaf morphology : **149/83C**
  - — locus classicus : **149/79C, /84C; 187/47**
  - — separation from *C. roopiae* : **149/79**
  - — white form : **149/86C**
  - 'elegantissimus' (= *C. brachyfilus*; syn. *C. elegans*, *C. speciosus* subsp. *elegans*) : **182/31**
  - *erolii* : **144/2, /56\*, /57C, /61C, /80**
  - — basal plate : **144/59C**
  - — corm tunic : **144/58C, /60C**
  - — etymology : **144/57**
  - — flower details : **144/60C, /61C, /62C**
  - — habitat & distribution : **144/56**
  - — holotype : **144/63**
  - — location map : **144/55C**
  - — seed pods : **144/62C**
  - — seeds : **144/62C**
  - *etruscus* : **164/9**
  - *evae-petrovae* : **184/9-10\*, /10C, /11C, /12C, /13C, /21, /32; 187/26C**
  - — 22IRS-034 : **184/7, /11**
  - — 24IRS-039 : **184/5**
  - — distinguishing features : **184/7, /8**
  - — corm tunics, basal rings : **184/15C**
  - — distribution : **184/8C**
  - — etymology : **184/10**
  - — flower details : **184/14C; 187/27C**
  - — habitat : **184/8C, /9; 187/27C**
  - — holotype : **184/9, /16C**
  - — leaf cross-section : **184/16C**
  - *fleischeri* KJGR-034 : **144/64C, /66**
  - *gargaricus* : **162/15C, /16C, /20, /23**
  - — subsp. *gargaricus* (now *C. gargaricus*) : **162/15**
  - — subsp. *herbertii* (now *C. thirkeanus*) :
- 162/15**
- — corm tunic : **162/16C**
  - — corms : **162/16C**
  - — leaf morphology : **162/16C**
  - — locus classicus : **162/21C**
  - *gembosii* : **133/51C, /54C, /55**
  - — 'Golden Delight' : **133/54C, /55**
  - — 'Sunspot' : **133/52C**
  - — hybrids : **133/52C**
  - *georgei* : **162/6, /8C, /11**
  - *gilanicus* : **162/30; 182/42; 184/56**
  - *gramensis* (*nomen nudum*) : **152/7, /8**
  - *gunae* : **150/91; 172/6, /22C, /23, /26C; 184/6, /18C, /21, /26C**
  - *hadriaticus* 14GRA-049 : **165/32C**
  - — — shoots : **165/32C**
  - — 18GRA-096 : **165/32C**
  - — — shoots : **165/32C**
  - — PELOG-003 : **165/35C**
  - — PELOG-009 : **165/35C**
  - — subsp. *parnassicus* : **165/33; 182/12**
  - — — 18GRA-099 : **165/33C, /34C**
  - — — — shoots : **165/34C**
  - — subsp. *parnonicus* : **165/33, /34C; 182/12**
  - cf. *hadriaticus* : **165/33**
  - *hakkariensis* : **172/4; 182/42; 184/4**
  - *haussknechtii* : **172/5; 182/42; 187/55C**
  - *hellenicus* : **182/32**
  - — 12GRA-002 (Vikos Canyon, NW Greece) : **182/20C**
  - — cataphylls : **182/21C, /32**
  - — localities map : **182/33C**
  - — subsp. *hellenicoides* : **182/33, /34C, /35C, /36-37\*, /37C, /51**
  - — — corm tunics : **182/40C**
  - — — etymology : **182/37**
  - — — flower details : **182/41C**
  - — — habitat : **182/34C**
  - — — herbarium sheet : **182/39C**
  - — — holotype (RIG II: BOT-17079!) : **182/36, /39C**
  - — — JP 87-104 : **182/31, /51**
  - — — leaf cross-section : **182/40C**
  - — — PB-359 : **182/31, /38C, /51**
  - — — seed capsule, seeds : **182/40C**
  - — subsp. *hellenicus* : **182/33**
  - *hermoneus* : **184/6**
  - *heuffelianus* : **164/9**
  - *homeri* : **144/2, 69C, /70C, /71C, /72\***
  - — 'Homeri' : **144/66C**

- Crocus homeri**, corms : **144/74C**
- — etymology : **144/73**
  - — flower details : **144/74C, /75C, /76C**
  - — habitat : **144/68C, /69C**
  - — habitat & distribution : **144/72**
  - — KJGR-001 : **144/77C**
  - — KJGR-038 : **144/78C**
  - — KJGR-040 : **144/78C**
  - — KJGR-047 : **144/78C**
  - — KJGR-060 : **144/79C**
  - — leaves : **144/69C, /70C**
  - — localities map : **144/67C**
  - — seed pods : **144/75C**
  - — seeds : **144/76C**
  - — throat hairs : **144/73C**
  - — white form : **144/68C**
  - — hyrcanus : **182/45C, /46C, /48-49\*, /50, /51; 184/4, /56**
  - — 16IRS-065 : **182/43**
  - — basal tunics : **182/50C**
  - — corms, stolons : **182/49C**
  - — etymology : **182/49**
  - — flower details : **182/46C, /51C**
  - — habitat : **182/43C, /44C**
  - — habitat, distribution : **182/48**
  - — holotype (RIG II: BOT-17083!) : **182/47C, /48**
  - — leaf cross-section : **182/50C**
  - — ibrahimii (syn. *C. speciosus* subsp. *ibrahimii*) : **182/31**
  - — (East Thrace, NW Turkey) : **182/22C**
  - — ilgazensis : **182/44**
  - — 12TUA-146 (Ilgaz Dağı, N. Turkey) : **182/15C, /19**
  - — inghamii : **150/91; 165/27, /28C; 172/22C, /24, /27C**
  - — corm tunic : **165/28**
  - — iranicus : **150/66, /91; 172/22C, /23, /25C; 184/17; 187/54C, /55**
  - — cf. iranicus : **151/12**
  - — jablanicensis : **152/9, /10, /14C, /15C, /25C, /28**
  - — corm tunic : **152/20C**
  - — jostii (syn. *C. veluchensis* var. *micranthus*, *nom. inval.*) : **152/1C, /3-30, /8-9\*, /11C, /12C, /13C, /14C, /15C, /18C, /19C, /20C, /23C, /26C, /27C; 165/10; 177/13, /14C; 184/31**
  - — (N Macedonia, Popova Šapka Mt.) : **152/26C, /27C, /30C**
  - — 22NMC-0014 (N Macedonia, Popova Šapka) : **152/17C**
  - — 22NMC-005 (N Macedonia, Jablanica) : **152/16C**
  - — basal plate : **152/19C**
  - — collection localities : **152/10C, /28C**
  - — corm tunic : **152/19C**
  - — cultivation : **152/28**
  - — etymology : **152/9**
  - — flower details : **152/18C**
  - — habitat & distribution : **152/9, /10C, /11C, /25C**
  - — holotype RIG! : **152/8, /16C**
  - — separation from *C. veluchensis* : **152/3, /10**
  - — ? hybrid with *C. jablanicensis* : **152/10, /15C**
  - — korolkowii : **135/35, /36, /37C**
  - — kosaninii : **165/10**
  - — kurdistanicus : **150/35, /91; 162/28, /30, /56; 172/7; 184/6**
  - — syn. *C. danfordiae* kurdistanicus : **150/49**
  - — 18IRS-020 : **149/73C, /74; 162/29C, /30**
  - — laevigatus f. *albus* 'Ray Cobb' : **164/32**
  - — ligusticus (syn. *C. medius*) f. *albus* : **164/32**
  - — lycius : **162/46**
  - — marandicus : **150/51-52\*, /52C, /56C, /57C, /91; 172/22C, /24, /27C**
  - — corm tunics : **150/53**
  - — corms : **150/53**
  - — distribution : **150/51**
  - — etymology : **150/51**
  - — flower details : **150/54**
  - — habitat : **150/50C, /51**
  - — holotype : **150/55C**
  - — leaf morphology : **150/54**
  - — separation from *C. azerbaijanicus* : **150/51, /59**
  - — white form : **150/53C**
  - — mathewii : **135/21; 144/54**
  - — mawii : **133/47C, /51C, /52, /55**
  - — mazziaricus : **144/80, /81**
  - — (as *C. cancellatus* subsp. *mazziaricus*) : **144/80**
  - — Kos locality map : **144/81**
  - — 14GRA-051 : **165/30C**
  - — PELOG-008 : **165/30C**
  - — cf. *mazziaricus* KJGR-074 : **165/30C**
  - — michelsonii : **184/17**
  - — minutus : **162/28, /29, /52**
  - — HZ-88-38 : **162/31C, /32**
  - — R2CV-038 : **162/31C**

- Crocus minutus**, locations : **162/32**
- — separation from *C. danfordiae* : **162/32**
  - mouradi (syn. *C. flavus* subsp. *dissectus*) : **162/31**
  - neapolitanus : **164/3**
  - nivalis : **162/6C**, /11
  - olivieri : **144/66**
  - oreocreticus f. albus : **164/32**
  - pallasii : **144/54**, /67, /68, /80, /81; **165/30**, /31C
  - — corm tunic : **165/30C**
  - — 'Homeri' : **144/64**, /66, /67
  - cf. pallasii ILOP-009 : **165/31C**
  - — — corm tunics : **165/31C**
  - pelistericus : **152/9**; **165/10**
  - — (N Macedonia, Jablanica) : **152/23C**
  - pilousii PJC-215 : **162/9C**, /10-11\*, /14C
  - — corms : **162/13C**
  - — etymology : **162/11**
  - — flower, detail : **162/11C**, /12C
  - — holotype : **162/10**, /14C
  - — leaf morphology : **162/12C**
  - — locus classicus : **162/13C**
  - — separation from *C. sieberi* complex : **162/11**
  - polyanthus *nom. illeg.* (= *C. zuvandicus*) : **182/13**, /23, /25, /26
  - pseudoiranicus : **150/65-67\***, /70C, /71C, /72C, /92; **172/22C**, /23, /24, /28C
  - — corm tunics : **150/67C**
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  - — flowers, foliage : **142/27C, /28C**
  - pandanifolium (Pandani) : **142/25, /30, /31C, /32C, /70C**
  - — subsp. ramulosum : **142/30**
  - — spent inflorescences : **142/31C**
  - — trunk : **142/33**
  - persistentifolium (syn. **Richea scoparia**, **Scoparia**) : **142/1C, /8C, /11C, /25, /33C, /34C, /35C, /36C, /70C**
  - — calyptra (operculum; fused petals) : **142/34**
  - — exposed flowers : **142/34C**
  - — pollination : **142/34**
  - procerum : **142/25**
  - sprengelioides : **142/25**
  - tasmanicum : **142/25**
  - victorianum : **142/25**
- Drimia** aphylla : **135/26**
- Drosera** arcturi (Alpine Sundew) : **142/8C, /36C, /61C, /62C; 183/9**
- Dryadanthe** tetrandra : **185/23C**
- Dryas** octopetala : **177/15; 193/12**
- sumneviczii : **183/50, /51C**
- Dryopteris** formosana : **145/55**
- Dutch Elm Disease (*Ophiostoma novo-ulmi*) : **192/7, /13, /16**
- selective breeding for resistance : **192/13-14**
- Dutchman's pipe (**Aristolochia**) : **151/2, /24**
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- emiliae : **135/22, /23C**
- Echinopsis** chiloensis : **132/13, /25; 137/1C, /19, /20C, /21C; 138/24**
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- ecosystem foundation species : **192/19**
- function : **192/18**
- Ecuador, Cayambe-Coca : **154/25**
- Volcán Guagua-Pichincha : **154/24, /25**
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- Elymus** sibiricus : **179/11**
- Empetrum** rubrum : **144/22**
- Empodisma** minus : **142/5**
- ENSO (El Niño Southern Oscillation) : **138/20**
- Epacris** serpyllifolia (Alpine heath) : **142/38C**
- Ephedra** chilensis : **145/26, /27C**
- Epilobium** foliosum (California Willowherb) : **170/11**
- nankotaizanense : **145/56**
- Epimedium** 'Wim Boens' (? *E. davidii* x *E. rhizomatosum*) : **175/2C**
- Epipactis**, germination : **156/54**
- gigantea : **180/40**
  - helleborine : **191/40C, /41**
  - palustris : **171/16C; 180/28, /29C, /40; 191/38, /39C, /40C, /41**
  - — distribution : **180/28**
- Epipogium** aphyllum : **141/51, /52C**
- Equisetum** arvense (Common Horsetail) : **170/22, /34**
- Eranthis** cilicica : **133/48C; 151/6C, /7, /8, /13; 189/5**
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  - — R2CV-039 : **151/6**
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  - *hyemalis* (syn. *E. bulgarica*, *E. hyemalis* var. *bulgarica*) : **135/22; 151/4C, /5C, /7**
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- Chilean endemics : **144/16**
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- — description : **144/18-19**
- — distribution : **144/19**
- — ecology : **144/45**
- — etymology : **144/24**
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- — habitat : **144/21, /40C, /42C**
- — hybrid swarm parent : **144/47**
- — inflorescence : **144/21C**
- — key : **144/29**
- — location : **144/29C, /30C, /41C**
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- — habitat : **144/28C**

— — possible hybrid : **144/45P**

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- nubigena (Silver Ewartia) : **143/55C**
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**Falco** tinnunculus (kestrel) : **190/65C**

**Fascicularia** bicolor subsp. canaliculata : **144/22**

**Fatsia** polycarpa : **145/55**

fertiliser, organic pelleted (Chrysan) : **166/26C**

**Ferula** kuhistanica : **135/35**

- prangifolia : **169/15, /19C**

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- taxonomy : **160/11**

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- bisotunensis : **160/10, /39**

- furseorum : **160/10, /38**

- gilanica : **160/11, /12, /31-2\*, /33C, /38**

- — bracts : **160/34C**

- — conservation status : **160/33**

- — distribution : **160/32, /33C**

- — etymology : **160/33**

- — flower details : **160/35C, /36C**

- — habitat : **160/29C, /32**

- — holotype (RIG!) : **160/31**

- — leaf : **160/37C**

- — phenology : **160/33**

- — raceme : **160/35C**

- — seeds, capsules : **160/37C**

- — separation from other **Fessia** : **160/31C, /32**

- gorganica : **160/10, /30C, /31, /32, /38; 184/56**

- — 16IRS-093 : **160/30C**

- — distribution : **160/33C**

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- olangensis : **113/51-70; 160/10, /29, /31, /39; 184/56;**

- — 16IRS-052 : **160/30C**

- — WHIR-093 : **160/30C**

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- purpurea : **160/10, /38**

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— — *Korolkowia* : **141/3**  
— — *Liliorhiza* : **141/3**  
— — *Rhinopetalum* : **140/2**, /3, /5, /15; **141/3**  
— — — bulbs : **140/14C**  
— — — distribution : **140/9C**  
— — — flowers : **140/13C**  
— — — key : **140/24**  
— — — seeds : **140/14C**  
— acmopetala : **135/22**  
— alburyana : **135/27C**, /28  
— ariana : **140/9**, /20C, /21C, /25  
— — (Turkmenistan) : **140/25C**  
— — — bulb : **140/14C**  
— — — seeds : **140/14C**  
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- Fritillaria** *baisunensis* : **140/9, /24; 141/3**  
 — — (Uzbekistan, Baisun) : **140/18C**  
 — — (Uzbekistan, Pulkhakim) : **141/4C**  
 — — (Uzbekistan, Shurab) : **141/5C**  
 — — — bulb : **140/14C**  
 — bucharica : **135/34C, /35; 140/9, /24; 141/3**  
 — — (Tajikistan, Darwaz) bulb : **140/14C**  
 — — — flower : **140/13C**  
 — — — seeds : **140/14C**  
 — — (Tajikistan, Darwaz & Norak forms) :  
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 — cf. *crassifolia* : **160/7**  
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 — eduardii : **140/5; 189/24C**  
 — ferganensis : **140/5; 141/3, /23, /39, /43**  
 — — (Kyrgyzstan) : **141/39C, /40C**  
 — — distribution : **141/43D**  
 — — seedpods : **141/22C, /23C**  
 — — separation from *F. walujewii* : **141/43**  
 — — separation from *F. ruthenica* : **141/43**  
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 — — (Iran, Bojnurd) : **140/25C**  
 — — — bulb : **140/14C**  
 — — — flower : **140/13C**  
 — hajastanica : **141/3**  
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 — — cultivars : **165/18**  
 — — decorating cars : **187/61C**  
 — — 'Lutea' : **179/28C, /29C**  
 — — 'Red Knight' : **179/28C, /29C**  
 — karelinii : **140/3, /5, /9, /11, /15, /20C, /21C, /24**  
 — — (Kazakhstan, Mangystau) : **140/23C**  
 — — — bulb : **140/14C**  
 — — — flower : **140/13C**  
 — — — seeds : **140/14C**  
 — — (Kyrgyzstan, Batken region) : **140/19C, /20C**  
 — kolbintsevii : **141/2, /3-45, /12C, /13C, /14C, /16-17\***  
 — — 12KZ-075 : **141/20C, /21C, /25C, /26C**  
 — — as cf. *F. walujewii* : **141/25, /39**  
 — — as *F. ruthenica* : **141/25**  
 — kolbintsevii, distribution : **141/24**  
 — — etymology : **141/24**  
 — — filaments & anthers : **141/19C**  
 — — flower details : **141/17C, /33C**  
 — — habitat : **141/24**  
 — — Holotype (12KZ-075) : **141/15C**  
 — — locality map : **141/23C**  
 — — perianth segments : **141/18C**  
 — — phenology : **141/24**  
 — — seedpods : **141/1C, /34C, /35C**  
 — — separation from *F. ruthenica* : **141/20, /31, /35**  
 — — separation from *F. meleagroides* :  
**141/22, /34**  
 — — separation from *F. ferganensis* : **141/22**  
 — — separation from *F. walujewii* : **141/23**  
 — — separation from *F. ussuriensis* : **141/32**  
 — — separation from *F. tortifolia* : **141/36**  
 — — separation from *F. yuminensis* : **141/36**  
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 — maximowiczii : **141/3**  
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 — — (Kazakhstan, Altai) : **141/30C**  
 — — (Kazakhstan, Tarbagatai Mountains) :  
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 — — (Ukraine, Donetsk Region) : **141/29C**  
 — — (Ukraine, Poltava Region) : **141/29C**  
 — — — yellow form : **141/30C**  
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 — — 12KZ-076 (Kazakhstan, Dzungarian Gate)  
: **141/10C, /11C**  
 — pelinaea : **144/65C**  
 — poluninii : **150/14**  
 — raddeana : **179/26C**  
 — roylei : **135/52**  
 — rugillosa : **140/2, /3-27, /10-11\*, /20C, /21C; 141/3**  
 — — conservation status : **140/24**  
 — — distribution : **140/11, /12C**  
 — — etymology : **140/12**  
 — — habitat : **140/12**

**Fritillaria rugilosa**, holotype sheet OL 38056 :  
**140/12, /26C**  
 — — phenology : **140/12**  
 — — type locality : **140/4C, /5C, /6C, /7C, /8C**  
 — — (Kyrgyzstan, Jalal-Abad) flower : **140/13C**  
 — — (Kyrgyzstan, Osh) : **140/22C**  
 — — — bulb : **140/14C**  
 — — — seed capsule : **140/15C**  
 — — — seeds : **140/14C**  
 — ruthenica : **141/3, /25, /27, /31, /32, /43—**  
 — (Russia, Penza Region) : **141/28C**  
 — — (Ukraine, Donetsk Region) : **141/27C, /29, /31, /35**  
 — — (Ukraine, Poltava Region) : **141/29C, /35**  
 — — bulbils : **141/31**  
 — ruthenica, locality map : **141/23C**  
 — — papillose style lobes : **141/32**  
 — — seedpods : **141/21C, /34C, /35**  
 — sewerzowi : **135/36, /37C; 140/5, /18; 181/21, /23, /24C, /31, /32; 189/23C**  
 — sonnikovae : **141/3**  
 — stenantha : **140/3, /9, /11, /15, /16, /20, /24; 181/32**  
 — — (as **Rhinopetalum stenanthum**) : **140/18**  
 — — (Kazakhstan) : **140/17C**  
 — — (Kazakhstan, Turkistan) bulb : **140/14C**  
 — — — flower : **140/13C**  
 — — — seeds : **140/14C**  
 — — (Kyrgyzstan, Talas valley) : **140/16C**  
 — — (Uzbekistan, Ikhnachsay) : **140/17C**  
 — straussii : **150/14**  
 — tortifolia : **141/36C, /37C**  
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 — ussuriensis : **141/32**  
 — — (Russian Far East) : **141/32C**  
 — verticillata : **141/4, /25**  
 — — (Kazakhstan, Kara-Sumbe) : **141/7C**  
 — — (Kazakhstan, Marble Pass) : **141/9C**  
 — — (Kazakhstan, Urdzhar) : **141/6C**  
 — — 12KZ-087 (Kazakh stan, Tarbagatai Mountains) : **141/8C**  
 — walujewii : **140/5; 141/3, /10, /39, /41**  
 — — (Kyrgyzstan) : **141/41C, /42C; 169/24C**  
 — — distribution : **141/43D**  
 — whittallii : **135/22, /23C**  
 — yuminensis : **141/36, /38C**  
 — zagrica : **150/65**  
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 — nivale (now **Microdium nivale**) : **165/11**  
**Gagea alberti** : **185/17C**  
 — bulbifera : **166/6C**  
 — filiformis : **179/7C**  
 — sp. : **135/34C**  
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 — — — 'Dryad Concerto' : **163/43, /44C, /45-46\*, /46C, /47**  
 — — — — floral parts : **163/45C**  
 — — — — parentage : **163/45**  
 — — — 'Dryad Sonata' : **163/43, /46, /47C, /48\*, /48C**  
 — — — — floral parts : **163/47C**  
 — — — — parentage : **163/48**  
 — — 'Dryad Myths and Legends' Series : **163/2C, /29**  
 — — — 'Dryad Argus' : **163/41C, /42\*, /43C**  
 — — — — etymology : **163/41**  
 — — — — floral parts : **163/42C**  
 — — — — parentage : **163/42**  
 — — — 'Dryad Bellerophon' : **163/35, /38C, /39-40\*, /40C**  
 — — — — etymology : **163/38**  
 — — — — floral parts : **163/39C**  
 — — — — parentage : **163/39**  
 — — — 'Dryad Hera' : **163/32C, /33-34\*, /34C**  
 — — — — etymology : **163/32**  
 — — — — floral parts : **163/33C**  
 — — — — parentage : **163/33**  
 — — — 'Dryad Leto' : **163/29C, /30-31\*, /31C**  
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 — — — — floral parts : **163/30C**  
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 — — — — etymology : **163/35**  
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- — — distribution : **146/4C**
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- — — sp. 'Moleskin iris' (I. meda × I. polakii natural hybrid?) : **146/65C**
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— — flowers, foliage : **140/63C**

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— — habitat : **140/48C**

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- [Crûg Farm Plants](#) : **145/2, /50, /57; 161/33 /40, /48; 180/45**
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- Duncan & Davies Nurseries (New Zealand, New Plymouth) : **177/2**
- [Edrom](#) (UK, Berwickshire, Eyemouth) : **133/2; 167/15**
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 — — xnutans natural hybrid : **143/49C**  
 — curta (Blunt Greenhood orchid) : **143/24C**  
 — nutans : **143/33C**  
 — pedunculata : **143/33C**  
 — plumosa (syn. **Plumatichilos** extensus) : **143/26C, /27C**  
 — pusillus (syn. **Oligochaetochilus** pusillus) : **143/25C**  
 — vereenae (syn. **P. foliata**) : **143/30C**  
 — lawrencei (Sage Cushion Plant) : **142/8C, /37C, /60C, /61C**  
 — — in cultivation : **142/61C, /63C**  
 — — resemblance to **Raoulia** : **142/62C**
- Ptilagrostis** mongholica : **179/16**
- Ptilotrichum** spinosum : **138/13C**  
 — tenuifolium : **183/26**
- Pulmonaria** 'Blue Ensign' : **180/9C, /10**  
 — 'Opal' : **180/15C**
- Pulsatilla** alpina : **167/4**  
 — campanella : **179/14; 182/3; 185/4C**  
 — halleri : **181/46C**  
 — integrifolia : **166/24C**  
 — patens subsp. flavescens : **183/33C, /39**

**Pulsatilla tenuiloba** : **183/40C**

- turczaninovii : **183/26, /29, /40C**
- vernalis : **166/24C**
- zimmermannii : **166/25C**
- pulvinic acid : **166/13, /14**
- pumice : **148/68; 166/29; 173/40, /42, /48; 178/29**
- Puschkinia** : **160/2**
  - centre of speciation : **150/4, /43**
  - distribution map : **150/11C**
  - key : **150/41-43; 160/28**
  - separation from Scilla : **160/3**
  - taxonomy : **150/12-13; 160/3**
  - advayana : **160/1C, /11, /12C, /13C, /14C, /15\*, /20, /24, /28 ; 187/61**
    - 17IRS-048 : **160/13, /14, /23, /24C**
    - 22IRS-082 (holotype RIG!) : **160/13, /14, /15, /20C**
    - bracts : **160/17C**
    - bulb : **160/19C**
    - — tunic : **160/19C**
    - — colour forms *in situ* : **160/13, /15C**
    - — conservation status : **160/22**
    - — corona : **160/18C**
    - — distribution : **160/20, /21C, /28**
    - — etymology : **160/22**
    - — flower structure : **160/19C**
    - — flowers, inflorescence : **160/16C, /17C, /18C, /21C**
    - — habitat : **160/20**
    - — holotype : **160/13**
    - — phenology : **160/22**
    - — separation from *P. peshmenii* : **160/18**
    - cf. advayana BATM/BATMAN-250 : **160/21C, /22, /26C**
      - — as *P. peshmenii* 'Jim Archibald' : **160/22**
      - — — inflorescence : **160/21C**
      - — — separation from *P. peshmenii* : **160/23**
    - avromanica : **150/12, /13-15\*, /27, /35, /38, /39, /42; 160/28; 172/14; 187/40, /46, /47C, /60C, /61, /64, /65**
    - 18IRS-026 : **150/12, /15C, /16C, /20C, /21C, /22C, /40C; 160/8C**
    - 22IRS-097 : **150/23C**
    - WHIR-185 : **150/13**
    - bulbs : **150/18C**
    - characteristic style : **150/17C**
    - conservation status : **150/15**
    - distribution : **150/11C, /14, /19C, /43,**

**/44; 160/28**

- — etymology : **150/15**
- — flower : **150/21C**
- — fruits : **150/18C, /23C**
- — habitat : **150/14, /19C, /20C**
- — holotype (GB!) : **150/21C**
- — isotype (RIG!) : **150/22C**
- — phrenology : **150/15**
- — seeds : **150/21C**
- — separation from *P. scilloides* : **150/14, /24**
- cf. avromanica : **187/45**
- bilgineri (syn. *P. kurdica*) : **150/4, /6C, /41, /42; 160/5, /7, /28**
  - — JRRK-058 : **160/6C**
  - — distribution : **150/43, /44; 160/27**
  - — separation from *P. scilloides* : **160/7**
  - hyacinthoides : **150/5; 160/3**
  - — WHIR-126 : **160/4**
  - kurdistanica : **150/4, /42, /43; 160/28**
  - — BATM-060 : **150/6C; 160/7C, /8**
  - — — as *P. peshmenii* : **160/7**
  - — distribution : **150/43, /44; 160/27**
  - — separation from *P. peshmenii* : **160/8**
  - latifolia : **150/12, /24C, /28, /29-30\*, /31, /42; 160/8, /28**
  - — bracts : **150/33C**
  - — bulbs : **150/33C**
  - — conservation status : **150/30**
  - — distribution : **150/11C, /30, /43; 160/28**
  - — etymology : **150/30**
  - — flower : **150/31C, /32C**
  - — fruits : **150/32C**
  - — habitat : **150/30**
  - — holotype (GB!) : **150/28C**
  - — leaf : **150/26C, /27C**
  - — phrenology : **150/30**
  - — seeds : **150/32C**
  - — separation from *P. scilloides* : **150/30**
  - — SLIZE-066 (N Iran, Central Alborz) : **150/25C, /26, /27, /28; 160/9C**
  - libanotica (syn. *P. scilloides*) : **150/5; 160/3**
  - parvula : **150/12, /36, /37-38\*, /42; 160/8, /28; 187/40C, /46**
  - 18IRS-060B (NW Iran, W Mahabad) : **150/34, /37C, /40C**
  - 22IRS-050 (NW Iran, W Agh Bolagh) : **150/44C**
  - 22IRS-077 (NW Iran, Lake Urmia basin) : **150/35, /36C; 160/10C**
  - — conservation status : **150/39**

**Puschkinia parvula**, distribution : **150/11C**, /39, /41C, /43, /44; **160/28**  
 — — etymology : **150/39**  
 — — fruits : **150/38**, /39C  
 — — habitat : **150/34C**, /39  
 — — holotype (RIG!) : **150/36C**  
 — — phrenology : **150/39**  
 — — seeds : **150/38**, /39C  
 — — separation from *P. avromanica* : **150/38**  
 — — separation from *P. scilloides* : **150/38**  
 — peshmenii : **150/41**, /43; **160/6**, /13, /14, /22, /28  
 — — Rix et al. 1624 : **160/5C**, /6, /24C  
 — — — flower structure : **160/26C**  
 — — — flowers : **160/25C**  
 — — Rix et al. 1926 : **160/5**, /6, /21C  
 — — — [herbarium sheet](#) : **160/6**  
 — peshmenii s.l. : **150/4**, /5C  
 — cf. peshmenii (22IRS-082) : **150/5**, /7C  
 — — distribution : **150/4**, /43, /44; **160/21C** /27  
 — scilloides : **135/28C**; **150/3**, /5, /26, /27, /34, /38, /39, /42, /43; **160/3**, /5, /6, /7, /22, /23, /27, /28  
 — — distribution : **160/27**  
 — — inflorescence : **160/4C**  
 — scilloides s.l., distribution : **150/5**, /11C, /43, /44  
 — scilloides (Armenia, Zangezur Mts.) : **150/10C**, /24  
 — — 14ARM-037 (Armenia, near Vanadzor) : **150/24**  
 — — 14ARM-042 (Armenia, near Geghard) : **150/24**  
 — — 18IRS-072B (NW Iran, Kuhha-ye Sabalan) : **150/9C**, /13, /24, /26  
 — — BATM-089 (Turkey, Güzeldere Pass) : **150/24**  
 — — BATM-148 (Turkey, Tendürek Pass) : **150/7C**, /24  
 — — CMGG-028 (Georgia, Devdaraki valley) : **150/9C**, /24  
 — — KPPZ 90-221 (Turkey, Tunceli-Erzincan) : **150/7C**, /30  
 — — WHIR-126 (NW Iran, Kūhhā-ye Tālesh) : **150/8C**, /13, /24, /26, /30  
 — — — leaf : **150/27C**  
 — — WHIR-151 (NW Iran, Takht-e Soleyman Massif) : **150/10C**, /24  
 — sp. (NW Iran) : **187/30C**  
 — sp. nova (Iran, West Azerbaijan Province,

Oshnavieh) : **149/76**  
 pussy willow (*Salix* spp.) : **191/39**, /45  
**Puya** aplestris : **173/3**  
 — chilensis : **143/93C**  
 — raimondii : **154/3**, /4C, /5  
 — — habitat : **154/3C**, /5C  
 — — pollination : **154/5**  
**Pyrethrum** leontopodium : **179/17**, /18  
 — pyrethroides : **179/11**  
**Pyrola** rotundifolia : **183/41**  
**Pyrorchis** nigricans : **143/47C**  
**Pyrocoma** uniflora (syn. **Happlopappus** uniflora) : **172/30-31**, /30C, /31C  
 — — variability : **172/30**  
**Pyrus** korshinskyi : **169/6**  
 quartzite : **142/41**  
 Quaternary deposits : **140/3**  
**Quercus** brantii : **187/58**  
 — castaneifolia : **184/36**, /47, /55  
**Quercus** chrysolepis (Canyon Live Oak) : **174/16C**  
 — kelloggii (California Black Oak) : **170/9**, /10  
 — macranthera : **150/30**; **160/32**; **184/34**, /48C, /56  
 — robur : **169/6**  
 — vacciniifolia (Huckleberry Oak) : **170/9**, /20, /33, /34  
**Quinchamalium** chilense : **173/30**  
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 — covers : **153/42**, /43, /44, /51C  
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 — (Utrecht BG) : **152/33**  
 — myconi : **139/41**, /44, /46  
 — nathaliae JCA 686 : **177/5C**  
**Ranorchis** : **143/25**  
**Ranunculus** acris : **190/34C**  
 — alberti : **179/14**, /15C, /16  
 — alpestris : **193/6**, /7C  
 — glacialis : **164/33**  
 — gramineus : **187/6**  
 — gunnianus (Gunn's Buttercup) : **142/63C**  
 — kochii : **184/56**  
 — kuepferi : **181/61C**  
 — millanii : **185/45C**, /46C, /47C  
 — occidentalis var. ultramontanus (Western Buttercup) : **170/26**  
 — orthorhynchus var. orthorhynchus (Straight-beaked Buttercup) : **170/22**  
 — peduncularis : **173/16**  
 — propinquus : **183/41**

**Ranunculus repens** : 190/35C, /50C, /51C, /52C

— songaricus : 179/14

— sp. (NW Iran) : 150/14

— victoriensis : 185/48C, /49C, /50C

**Raoulia australis** : 153/43

— eximia : 154/5

— hectorii var. hectorii : 178/10C

Red Arrows : 180/8C

**Restio australis** : 142/5

**Rhamnus pallasii** : 184/56

**Rheum nobile** : 135/47C, /49

— sp. (Kyrgyzstan) : 185/6C

— spiciforme : 179/17

**Rhinanthus minor** : 191/35C, /43C

— songaricus : 179/11

**Rhinotropis cornuta** var. *cornuta* (Sierra Milkwort) : 174/23C

**Rhipsalis baccifera** : 137/5, /6C

**Rhodanthe anthemoides** (Chamomile Sunray) : 143/70C

**Rhodiola coccinea** : 179/16, /17C; 185/22C

— gelida : 179/16

— kirilowii : 185/5C

— linearifolia : 179/16, /17C; 185/27C

— quadrifida : 185/34C

— rosea : 170/41C

**Rhododendron** 'Sarled' : 180/32

— 'Sir Nigel' : 177/27

— 'Snow Lady' : 179/24C, /25C, /27C

— 'Tortoiseshell Orange' : 137/8C

— arboreum 'Tony Schilling' : 133/33C

— calophytum : 177/2; 180/32

— caucasicum hyb. 'Christmas Cheer' : 180/32

— dauricum : 183/37, /40, /47, /48C, /49C

— edgeworthii : 133/33C

— Ghent deciduous azalea hybrids : 180/32

— — 'Irene Koster' : 180/32, /33C

— keleticum 'Rock's Form' : 153/44

— luteum : 180/32, /33C

— occidentale : 174/18C; 180/32

— ponticum : 174/42

— racemosum : 193/2C

— viscosum var. *glaucum* : 180/34C

— wardii : 135/42, /43C

**Rhodohypoxis baurii** : 153/44

**Rhodolirium montanum** : 173/32C

**Rhodophiala andina** : 132/23C

**Ribes nigrum** : 183/39

— roezlii var. *roezlii* (Sierra Gooseberry) : 170/13

**Richteria leontopodium** : 185/23C

Romania, Bucegi Mountains : 193/4

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/18C; 193/4, /10, /18

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Piatra Craiului : 193/4

**Rosa** (Hybrid Tea) 'Mountbatten' : 137/13C

— — 'Sugar Moon' : 137/12C

— (Polyantha) 'Smoke Rings' : 137/12C

— alberti : 179/9, /10C

— banksiae : 134/35C

— beggeriana : 169/7

— cinnamomea : 183/37

— damascena : 146/34C

— fedtschenkoana : 179/9

— gymnocarpa : 174/15

— kokanica : 169/7C

— laxa : 169/7C

— platyacantha : 141/24, /25

**Roscoea** 'Snowy Owl' : 133/42C

— purpurea 'Royal Purple' : 133/41C

**Rosularia glabra** : 166/13C

— paniculata : 179/11

Roundup® (glyphosate) : 165/21

**Rubus** : 134/41-47

— fruticosus : 174/42

— geiodes : 134/43C, /44C

— gunnianus (Alpine Raspberry) : 134/45C, /46C; 142/64C

**Rubus nepalensis** : 134/41C

— parviflorus (Thimbleberry) : 170/23

— parvus ('Creeping Lawyer') : 134/42C, /43C

— saxitilis : 183/39

— squarrosus : 134/46C, /47C

— taiwanicola : 134/42C, /45

— × barkeri : 134/43C

**Rumex obtusifolius** : 190/18C, /52C, /54C, /62C, /63C, /64C

**Ruscus hyrcanus** : 184/47, /55

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Baikal, Baikal Ridge : 183/35

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— Khamar-Daban Ridge : 183/19, /54

— Maloye More Strait : 183/21

— Olkhon Island : 183/2, /19-54,

— — Buluk Bay : 183/24, /33

— — Cape Burkhan : 183/24

— — — Shamanka Rock : 183/22C

— — Cape Khoboy : 183/20C, /52C, /53C,

- /54C**
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  - — Cape Ukhan : **183/39**
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  - — forest vegetation : **183/24, /36C, /37, /43**
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  - rust (**Uccinia sessilis**) : **133/18**
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  - *babylonica* : **179/6**
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  - *glutinosa* : **184/56**
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  - Sambucus nigra** : **190/25C**
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  - Sanguinaria canadensis** 'Multiplex' : **180/1C, /26C**
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  - Sanicula (Hacquetia) epipactis** : **180/15, /17C**
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  - distribution : **145/48**
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  - *philippinensis* : **145/50**
  - *pruniformis* var. *dioica* (syn. *S. longipetiolata* var. *dioica*) : **145/49**
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  - — — (nom. inval.) original description : **145/49C**
  - *ruscifolia* : **145/50**
  - *saligna*, distribution : **145/49**
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**145/53C, /54C, /56**  
— — description : **145/50-51\***  
— — field notes CWJ 12391 : **145/55**  
— — — RWJ 9999 : **145/55**  
— — flower : **145/51C**  
— — fruit : **145/52C**  
— — herbarium specimen (Hualien Hsien) :  
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— — — (Kaohsiung) : **145/53C**  
— — holotype TAI 15086 : **145/50**  
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— — *cuscutiformis* (= *S. stolonifera*  
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— — distribution : **168/31**  
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— — — 'Zdeněk Zvolánek' : **148/63C**  
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— — Megasea group : **188/11, /12**  
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— — *oppositifolia* : **153/43; 185/37C**  
— — × *patens* (*caesia* × *aizoides*) : **193/11**  
— — × *polita* (*S. hirsuta* × *S. spathularis*) : **174/36**  
— — — 'Geert Borgonje' : **174/35-40, /35C, /40C**  
— — — flowers : **174/37C, /39C**  
— — — foliage : **174/36C, /37C**  
— — — measurements : **174/38C**  
— — — registration : **174/39**  
— — *ramsarica* : **148/63**  
— — Register : **168/2**  
— — *sibirica* : **179/11; 185/6C**  
— — *spathularis* : **174/36**  
— — *stolitzkae* : **153/52C**  
— — *stolonifera*, cultivars : **168/2, /19-31**  
— — — 'Bian Huan' : **168/1C, /19\*, /19C, /20C,**  
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— — — flower : **168/23C**  
— — — leaf : **168/22C, /23C**  
— — — name : **168/19**  
— — — origin : **168/19**  
— — — 'Tianmu Enci' : **168/31C**  
— — — 'Xue Wen' : **168/19, /24, /31C**  
— — — 'Yin Yuanbao' : **168/24C, /25\*, /29C**  
— — — flower : **168/25C, /26C**  
— — — leaf : **168/27C, /29C, /30C**

- — — name : **168/24**
- — — origin : **168/24**
- — — stolons : **168/27C, /28C**
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- Scabiosa caucasica** : **141/51C**
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- Schefflera taiwaniana** : **145/55**
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- Schlumbergera gaertneri** ('Christmas cactus') : **137/5, /6C**
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- (syn. **Fessia**) khorassanica : **176/14C**
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- siberica subsp. armena : **184/56**
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— other species interactions, mutualism : 192/16  
— — pathogens : 192/16  
— — soil microbiome : 192/16  
— plant-animal interactions : 192/12, /16  
— planting to initiate natural regeneration : 192/9-21  
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— translocation sites : 192/12  
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World Checklist of Selected Plant Families, Kew (now [Plants of the World Online, POWO](#)) : 160/11  
**Woodsia ilvensis** (Oblong Woodsia) : 192/10C, /14, /15C  
— okamotoi : 145/56  
**Woodwardia fimbriata** (Western Chain fern) : 174/29C  
**Wyethia mollis** (Woolly Mules Ears) : 170/27C  
**Xanthium spinosum** : 138/24  
**Xerochrysum milliganii** (syn. **Helichrysum milliganii**; Snow Everlasting) : 142/67C  
— subundulatum (Alpine Everlasting) : 143/61C, /69  
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**Yramea** (Argynnini; Southern fritillary butterflies) : **153/2, /3, /4, /12, /25, /31, /36**

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- caterpillars : **153/23, /24C, /31**
- co-evolution with **Viola** : **153/25**
- cytheris : **132/8C; 153/22C, /23C, /24C, /25, /32, /36**
- — caterpillars : **132/13**
- — egg cases on annual rosette viola : **153/24C**
- inca : **153/36C**
- lathonioides : **153/25, /26C, /36**
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**Zephyranthes graciliflora** F&W11097 : **156/29C**

— — F&W11250 : **156/28C**

— sarae : **174/46C**

— sp. : **144/22**

— tenuiflora (syn. **Rhodophiala andina**) : **132/23C**

Ziplock bags (seed sowing) : **136/5, /6C**

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