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## IAPT/IOPB chromosome data 5

Edited by Karol Marhold

## Robert K. Vickery, Jr. &amp; Mathew Miller

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All materials CHN.

## PLANTAGINACEAE (SCROPHULARIACEAE)

- Mimulus glabratus* var. *fremontii* (Benth.) A.L. Grant,  $n = 15$ ; U.S.A., *G. Pollock s.n.* (UT 78336, 102607).  
*Mimulus glabratus* Humb., Bonpl. & Kunth var. *glabratus*,  $n = 31$ ; Colombia, *Vickery & Ajioka 2862* (UT 117817), *Vickery & Ajioka 2874* (UT 102606).  
*Mimulus pilosiusculus* Humb., Bonpl. & Kunth,  $n = 46$ ; Argentina, *Vickery & Ajioka 2909* (UT 102651); Peru, *Cerrate de Ferreyra s.n.* (UT 102650).  
*Mimulus andicolus* Humb., Bonpl. & Kunth,  $n = 46$ ; Argentina, *Arnou 3614* (UT 102568).  
*Mimulus longiflorus* (Nutt.) A.L. Grant ex L.H. Bailey,  $n = 10$ ; U.S.A., *Rancho Santa Ana Botanic Garden 10098* (UT 75190).  
*Mimulus nanus* Hook. & Arn.,  $n = 16$ ; U.S.A., *Vickery 2729* (UT 70032).

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All materials CHN, collected from Turkey. Vouchers in SOM and KTUB (Herbarium of Department of Biology at Karadeniz Technical University, Trabzon).

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## ASTERACEAE

- Hieracium bornmuelleri* Freyn,  $2n = 36$ ; *Coşkunçelebi 606 & Vladimirov* (SOM 164177, KTUB).

- Hieracium erythrocarpum* s.l.,  $2n = 27$ ; *Coşkunçelebi 646 & Vladimirov* (KTUB);  $2n = 36$ ; *Coşkunçelebi 570 & Vladimirov* (KTUB).  
*Hieracium lanceolatum* Vill. (s.l.),  $2n = 27$ ; *Coşkunçelebi 611 & Vladimirov* (SOM 164178, KTUB).  
*Hieracium odontophyllum* Freyn & Sint.,  $2n = 27$ ; *Coşkunçelebi 598 & Vladimirov* (SOM 164179, KTUB).  
*Hieracium olympicum* Boiss.,  $2n = 36$ ; *Coşkunçelebi 593 & Vladimirov* (SOM 164180, KTUB).  
*Hieracium* aff. *pannosum* Boiss.,  $2n = 27$ ; *Coşkunçelebi 589 & Vladimirov* (SOM 164181, KTUB).  
*Pilosella caespitosa* (Dumort.) P.D. Sell & C. West,  $2n = 27$ ; *Coşkunçelebi 583 & Vladimirov* (SOM 164183, KTUB).  
*Pilosella cymosa* (L.) F.W. Schultz & Sch. Bip.,  $2n = 45$ ; *Coşkunçelebi 630 & Vladimirov* (SOM 164184, KTUB);  $2n = 54$ ; *Coşkunçelebi 605, 629 & Vladimirov* (SOM 164185, 164193, KTUB).  
*Pilosella hoppeana* subsp. *cilicica* (Nägeli & Peter) P.D. Sell & C. West,  $2n = 18$ ; *Coşkunçelebi 602, 567 & Vladimirov* (SOM 164187, 164188, KTUB).  
*Pilosella hoppeana* subsp. *pilisquama* (Nägeli & Peter) P.D. Sell & C. West,  $2n = 18$ ; *Coşkunçelebi 603 & Vladimirov* (SOM 164186, KTUB).  
*Pilosella procera* (Fr.) F.W. Schultz & Sch. Bip.,  $2n = 36$ ; *Coşkunçelebi 636a & Vladimirov* (SOM 164190, KTUB).  
*Pilosella ruprechtii* (Boiss.) Dostál,  $2n = 36$ ; *Coşkunçelebi 641 & Vladimirov* (SOM 164191, KTUB).  
*Pilosella* aff. *ruprechtii* (Boiss.) Dostál,  $2n = 54$ ; *Coşkunçelebi 610 & Vladimirov* (SOM 164192, KTUB).

## Johan J. Spies &amp; Francisca Holder

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All materials CHN.

## POACEAE

- Andropogon amethystinus* Steud.,  $n = 20$ ; South Africa, *Spies 6677* (BLFU).  
*Andropogon appendiculatus* Nees,  $n = 10$ ; South Africa, *Spies 6946, 6949* (BLFU);  $n = 20$ ; South Africa, *Spies 6638* (BLFU).  
*Andropogon eucomus* Nees,  $n = 5$ ; South Africa, *Spies 5107* (BLFU).  
*Andropogon schirensis* A. Rich.,  $n = 10$ ; South Africa, *Spies 5084* (BLFU).

All materials for the chromosome column should be submitted electronically to: Karol Marhold, [karol.marhold@savba.sk](mailto:karol.marhold@savba.sk) (Institute of Botany, Slovak Academy of Sciences, SK-845 23 Bratislava, Slovakia, and Department of Botany, Charles University, CZ 128-01 Prague, Czech Republic). The full version of this contribution is available in the online edition of TAXON. The following citation format is recommended: Baltisberger, M. & Voelger, M. 2006. *Sternbergia sicula*. In: Marhold, K. (ed.), IAPT/IOPB chromosome data 1. *Taxon* 55: 444, E2.

*Arthraxon lanceolatus* (Roxb.) Hochst. var. *lanceolatus*,  $n = 9$ ; South Africa, *Spies 1424* (PRE).  
*Bothriochloa bladhii* (Retz.) S.T. Blake,  $n = 10$ ; South Africa, *Spies 5143* (BLFU);  $n = 20$ ; South Africa, *Spies 3720* (PRE), *H. du Plessis 141* (PRE).  
*Bothriochloa insculpta* (A. Rich.) A. Camus,  $n = 20$ ; South Africa, *Spies 3321*, *2407* (PRE), *5681* (BLFU).  
*Bothriochloa radicans* (Lehm.) A. Camus,  $n = 10$ ; South Africa, *Spies 4784* (BLFU).  
*Cymbopogon dieterleniae* Stapf ex E. Phillips,  $n = 10$ ; South Africa, *Spies 6642* (BLFU).  
*Cymbopogon marginatus* (Steud.) Stapf ex Burt Davy,  $n = 10$ ; South Africa, *Spies 5051* (BLFU).  
*Cymbopogon pospischilii* (K. Schum.) C.E. Hubb.,  $n = 10$ ; South Africa, *Spies 3322* (PRE), *4842*, *5206* (BLFU).  
*Diheteropogon amplexans* (Nees) Clayton,  $n = 10$ ; South Africa, *Spies 3719* (PRE), *4821* (BLFU).  
*Elionurus muticus* (Spreng.) Kuntze,  $n = 5$ ; South Africa, *Spies 3698*, *3700*, *3735* (PRE), *4792* (BLFU);  $n = 10$ ; South Africa, *du Plessis 70* (PRE), *Spies 2493* (PRE), *5074* (BLFU);  $n = 30$ ; Swaziland, *Spies 2537* (PRE).  
*Eulalia villosa* (Thunb.) Nees,  $n = 10$ ; South Africa, *Saayman 66* (PRE).  
*Heteropogon contortus* (L.) Roem. & Schult.,  $n = 10$ ; South Africa, *Spies 6628* (BLFU).  
*Hyparrhenia anamesa* Clayton,  $n = 20$ ; South Africa, *Spies 4807* (BLFU).  
*Hyparrhenia filipendula* (Hochst.) Stapf. var. *filipendula*,  $n = 20$ ; South Africa, *Spies 5144* (BLFU).  
*Hyparrhenia hirta* (L.) Stapf,  $n = 10$ ; South Africa, *Spies 5079*, *5112* (BLFU);  $n = 20$ ; South Africa, *Spies 5100*, *6656* (BLFU).  
*Hyparrhenia pilgerana* C.E. Hubb.,  $n = 10$ ; South Africa, *Spies 4851* (BLFU);  $n = 20$ ; South Africa, *Spies 4738* (BLFU).  
*Imperata cylindrica* (L.) Raeusch.,  $n = 20$ ; South Africa, *du Plessis 35* (PRE).  
*Ischaemum fasciculatum* Brongn.,  $n = 10$ ; Swaziland, *Spies 2358*, *2563* (PRE).  
*Rottboellia cochinchinensis* (Lour.) Clayton,  $n = 9$ ; South Africa, *du Plessis 118* (PRE).  
*Sorghum bicolor* subsp. *arundinaceum* (Desv.) de Wet & Harlan,  $n = 10$ ; South Africa, *du Plessis 117* (PRE).  
*Themeda triandra* Forssk.,  $n = 10$ ; South Africa, *Spies 2489* (PRE).  
*Trachypogon spicatus* (L. f.) Kuntze,  $n = 10$ ; South Africa, *Spies 5480* (BLFU).  
*Urelytrum agropyroides* (Hack.) Hack.,  $n = 10$ ; South Africa, *Spies 2081* (PRE).

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## HYACINTHACEAE

*Lachenalia algoensis* Schonl.,  $2n = 14$ ; South Africa, *Logie s.n.*  
*Lachenalia aloides* (L. f.) Engl. var. *aloides*,  $2n = 14$ ; South Africa, *Duncan 282*.  
*Lachenalia arbuthnotiae* W.F. Barker,  $2n = 14$ ; South Africa, *Duncan 94*.  
*Lachenalia bulbifera* (Cirillo) Engl.,  $2n = 42$ ; South Africa, *Duncan 90*.  
*Lachenalia capensis* W.F. Barker,  $2n = 28$ ; South Africa, *Duncan 139*.  
*Lachenalia carnosa* Baker,  $2n = 16$ ; South Africa, *Duncan 185*.  
*Lachenalia cernua* G.D. Duncan,  $2n = 28$ ; South Africa, *Duncan 428*.  
*Lachenalia concordiana* Schltr. ex W.F. Barker,  $2n = 14$ ; South Africa, *Desmet 2431*.  
*Lachenalia contaminata* Ait.,  $2n = 14$ ; South Africa, *Duncan 321*.  
*Lachenalia doleritica* G.D. Duncan,  $2n = 18$ ; South Africa, *Thomas s.n.*  
*Lachenalia duncanii* W.F. Barker,  $2n = 18$ ; South Africa, *Duncan 189*.  
*Lachenalia fistulosa* Baker,  $2n = 28$ ; South Africa, *Duncan 303*.  
*Lachenalia framesii* W.F. Barker,  $2n = 16$ ; South Africa, *Jangle s.n.*  
*Lachenalia giessii* W.F. Barker,  $2n = 32$ ; Namibia, *Williamson s.n.*  
*Lachenalia gillettii* W.F. Barker,  $2n = 16$ ; South Africa, *Taswell-Yates s.n.*  
*Lachenalia inconspicua* G.D. Duncan,  $2n = 18$ ; South Africa, *Duncan 381*.  
*Lachenalia isopetala* Jacq.,  $2n = 40$ ; South Africa, *Perry 3065*.  
*Lachenalia juncifolia* Baker,  $2n = 22$ ; South Africa, *Bohen 40314*.  
*Lachenalia klinghardtiana* Dinter,  $2n = 14$ ; South Africa, *de Villiers s.n.*; Namibia, *Patterson s.n.*  
*Lachenalia lactosa* G.D. Duncan,  $2n = 14$ ; South Africa, *Duncan 417*.  
*Lachenalia latimerae* W.F. Barker,  $2n = 14$ ; South Africa, *Vorster 3028*.  
*Lachenalia leomontana* W.F. Barker,  $2n = 14$ ; South Africa, *Botha s.n.*  
*Lachenalia longibracteata* Phillips,  $2n = 14$ ; South Africa, *Duncan 207*.  
*Lachenalia macgregorium* W.F. Barker,  $2n = 22$ ; South Africa, *Barker 9766*.  
*Lachenalia margaretae* W.F. Barker,  $2n = 14$ ; South Africa, *Patterson s.n.*  
*Lachenalia marginata* subsp. *neglecta* Schltr. ex G.D. Duncan,  $2n = 14$ ; South Africa, *Duncan 238*.  
*Lachenalia marlothii* W.F. Barker ex G.D. Duncan,  $2n = 14$ ; South Africa, *Symmons s.n.*  
*Lachenalia martiniae* W.F. Barker,  $2n = 26$ ; South Africa, *Duncan 141*.  
*Lachenalia mathewsii* W.F. Barker,  $2n = 14$ ; South Africa, *Duncan 200*.  
*Lachenalia mediana* var. *rogersii* (Baker) W.F. Barker,  $2n = 26$ ; South Africa, *Toerien s.n.*  
*Lachenalia minima* W.F. Barker,  $2n = 18$ ; South Africa, *Duncan 171*.  
*Lachenalia moniliformis* W.F. Barker,  $2n = 22$ ; South Africa, *Perry 795*.  
*Lachenalia mutabilis* Sweet,  $2n = 14$ ; South Africa, *Duncan 87*, *176*.

All materials CHN, vouchers in NBG.

*Lachenalia namaquensis* Schltr. ex W.F. Barker,  $2n = 16$ ; South Africa, van Berkel 273.  
*Lachenalia namibiensis* W.F. Barker,  $2n = 22$ ; Namibia 19955; South Africa, Lavranos 7217.  
*Lachenalia neilii* W.F. Barker ex G.D. Duncan,  $2n = 18$ ; South Africa, Duncan 196.  
*Lachenalia nervosa* Ker-Gawl.,  $2n = 16$ ; South Africa, Botha s.n.  
*Lachenalia obscura* W.F. Barker,  $2n = 36$ ; South Africa, Duncan 108, Snijman 1028.  
*Lachenalia orchoides* (L.) Ait.,  $2n = 14$ ; South Africa, Allen s.n.  
*Lachenalia orchoides* var. *glaucina* (Jacq.) W.F. Barker,  $2n = 28$ ; South Africa, Duncan 131.  
*Lachenalia orthopetala* Jacq.,  $2n = 16$ ; South Africa, Duncan 262.  
*Lachenalia pallida* Ait.,  $2n = 16$ ; South Africa, Duncan 357.  
*Lachenalia physocaulos* W.F. Barker,  $2n = 14$ ; South Africa, Duncan 288.  
*Lachenalia polyphylla* Baker,  $2n = 22$ ; South Africa, Duncan 348.  
*Lachenalia pustulata* Jacq.,  $2n = 16$ ; South Africa, Duncan 164.  
*Lachenalia rosea* Andr.,  $2n = 14$ ; South Africa, Duncan 354, 810.  
*Lachenalia thomasiae* W.F. Barker ex G.D. Duncan,  $2n = 14$ ; South Africa, Duncan 350.  
*Lachenalia valerianae* G.D. Duncan,  $2n = 16$ ; South Africa, Lavranos 28585.  
*Lachenalia variegata* W.F. Barker,  $2n = 14$ ; South Africa, Duncan 392.  
*Lachenalia ventricosa* Schltr. ex W.F. Barker,  $2n = 14$ ; South Africa, Duncan 191.  
*Lachenalia youngii* Baker,  $2n = 16$ ; South Africa, McMaster s.n.  
*Lachenalia zebryna* f. *densiflora* W.F. Barker,  $2n = 30$ ; South Africa, du Plessis s.n.

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All materials CHN, vouchers in BLFU.

### SOLANACEAE

*Lycium acutifolium* E. Mey. ex Dunal,  $2n = 24$ ; South Africa, A.M. Venter 225, 423, 426, 427.  
*Lycium afrum* L.,  $2n = 24$ ; South Africa, A.M. Venter 511.  
*Lycium amoenum* Dammer,  $2n = 24 + 0-1B$ ; South Africa, A.M. Venter 379, 563.  
*Lycium arenicola* Miers,  $2n = 48$ ; South Africa, A.M. Venter 535;  $2n = 72$ ; South Africa, A.M. Venter 451.  
*Lycium bosciifolium* Schinz,  $2n = 24$ ; Namibia, H.J.T. Venter 9214; South Africa, A.M. Venter 393, 398, 407, 418, 419, 420, 484, 493.  
*Lycium cinereum* Thunb.,  $2n = 24$ ; South Africa, A.M. Venter 336, 344, 450, 558, 603.  
*Lycium decumbens* Welw. ex Hiern.,  $2n = 24$ ; Namibia, A.M. Venter 621.  
*Lycium eenii* S. Moore,  $2n = 24$ ; Namibia, A.M. Venter 490, 491.  
*Lycium europaeum* L.,  $2n = 24$ ; Spain, A.M. Venter 577.  
*Lycium ferocissimum* Miers,  $2n = 24$ ; South Africa, A.M. Venter 345, 354, 375, 442, 443, 444, 601, J.J. Spies 5040.

*Lycium gariense* A.M. Venter,  $2n = 24$ ; Namibia, A.M. Venter 590;  $2n = 48$ , Namibia, A.M. Venter 622.  
*Lycium grandicalyx* Joubert & Venter,  $2n = 24$ ; Namibia, A.M. Venter 485.  
*Lycium hantamense* A.M. Venter,  $2n = 48$ ; South Africa, A.M. Venter 707, 709.  
*Lycium hirsutum* Dunal,  $2n = 24$ ; South Africa, A.M. Venter 311, 360, 394.  
*Lycium horridum* Thunb.,  $2n = 24$ ; Namibia, A.M. Venter 591;  $2n = 48$ ; Namibia, H.J.T. Venter 9215.  
*Lycium mascarenense* A.M. Venter & A.J. Scott,  $2n = 24$ ; South Africa, A.M. Venter 421, 422, 456;  $2n = 48$ ; South Africa, A.M. Venter 457.  
*Lycium oxycarpum* Dunal,  $2n = 24$ ; South Africa, A.M. Venter 337, 356, 447.  
*Lycium pilifolium* C.H. Wright,  $2n = 24$ ; South Africa, A.M. Venter 464; Namibia, A.M. Venter 580.  
*Lycium pumilum* Dammer,  $2n = 24$ ; South Africa, A.M. Venter 367, 383.  
*Lycium schizocalyx* C.H. Wright,  $2n = 24$ ; South Africa, A.M. Venter 545.  
*Lycium schweinfurthii* Dammer,  $2n = 24$ ; Egypt, A.M. Venter 576.  
*Lycium shawii* Roem. & Schult.,  $2n = 24$ ; South Africa, A.M. Venter 428, 429, 433, 434, 435, 436; Egypt, A.M. Venter 574, 575.  
*Lycium strandveldense* A.M. Venter,  $2n = 48$ ; South Africa, A.M. Venter 479, 507.  
*Lycium tenue* Willd.,  $2n = 24$ ; South Africa, A.M. Venter 438, 439, 446, 519.  
*Lycium tetrandrum* Thunb.,  $2n = 48$ ; Namibia, A.M. Venter 573;  $2n = 72$ ; South Africa, A.M. Venter 395, 500; Namibia, A.M. Venter 569.

### Naturally occurring interspecific hybrids

*Lycium bosciifolium* × *L. horridum*,  $2n = 24$ ; South Africa, A.M. Venter 399.  
*Lycium afrum* × *L. ferocissimum*,  $2n = 24$ ; South Africa, A.M. Venter 445.  
*Lycium ferocissimum* × *L. horridum*,  $2n = 48$ ; South Africa, J.J. Spies 5054, 5185.

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All materials CHN, counted by late A.P. Sokolovskaya (1905–1995); collectors: NP = N. Probatova, VS = V. Seledets, ER = E. Rudyka; vouchers in VLA.

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### ADOXACEAE

*Adoxa moschatellina* L.,  $2n = 36$ ; Russia, Far East, NP & VS 6402, Nepomnyashchaya 6237.

**APIACEAE**

- Bupleurum longiradiatum* Turcz.,  $2n = 12$ ; Russia, Far East, NP & VS 5925.  
*Cnidium monnieri* (L.) Cusson ex Juss.,  $2n = 20$ ; Russia, Far East, Gulariants 6642.  
*Oenanthe javanica* (Blume) DC.,  $2n = 44$ ; Russia, Far East, NP & ER 5493.  
*Pastinaca sylvestris* Mill.,  $2n = 22$ ; Russia, Far East, NP & ER 6468.

**ASTERACEAE**

- Artemisia integrifolia* L.,  $2n = 36$ ; Russia, Far East, NP & ER 5665.  
*Aster tataricus* L. f.,  $2n = 54$ ; Russia, Far East, NP & VS 4644.  
*Carduus crispus* L.,  $2n = 18 + 1-2B$ ; Russia, Kabardino-Balkaria, NP & VS 4610.  
*Centaurea adpressa* Ledeb.,  $2n = 20$ ; Russia, Daghestan, NP & VS 4331.  
*Centaurea jacea* L. aggr.,  $2n = 20$ ; Kyrgyz Republic, NP & VS 5377.  
*Centaurea ossethica* Sosn.,  $2n = 20$ ; Russia, Kabardino-Balkaria, NP & VS 4326.  
*Doellingeria scabra* (Thunb.) Nees,  $2n = 18$ ; Russia, Far East, NP & VS 4632.  
*Eupatorium lindleyanum* DC.,  $2n = 20$ ; Russia, Far East, NP & VS 4607, ER 4742.  
*Hieracium murorum* L. aggr.,  $2n = 27$ ; Russia, Daghestan, NP 5594.  
*Lapsana communis* L.,  $2n = 14$ ; Russia, Severnaya Ossetya, NP & VS 4325.  
*Leibnitzia anandria* (L.) Turcz.,  $2n = 46$ ; Russia, Far East, NP & ER 4025, ER 4252.  
*Picris nuristanica* Bornm.,  $2n = 10$ ; Kyrgyz Republic, NP & VS 5273.  
*Saussurea pulchella* (Fisch.) Fisch.,  $2n = 26$ ; Russia, Far East, Gulariants 6634.  
*Tanacetum boreale* Fisch. ex DC.,  $2n = 18$ ; Russia, Far East, NP & VS 5938.  
*Tridax procumbens* L.,  $2n = 36$ ; Sri Lanka, NP & VS 4911.

**BETULACEAE**

- Betula pendula* Roth,  $2n = 28$ ; Russia, Daghestan, NP & VS 4329.

**BRASSICACEAE**

- Arabis turczaninowii* Ledeb.,  $2n = 14$ ; Russia, Far East, Buch & Yashenkova 5684.  
*Cardamine leucantha* (Tausch) O.E. Schulz,  $2n = 16$ ; Russia, Far East, NP & VS 6618.  
*Cardamine scutata* Thunb.,  $2n = 32$ ; Russia, Far East, NP & ER 6048.

**CAPPARACEAE**

- Cleome steveniana* Schult. & Schult. f.,  $2n = 20$ ; Armenia, NP & VS 4327.

**CHENOPODIACEAE**

- Chenopodium glaucum* L.,  $2n = 18$ ; Russia, Far East, Ignatov 6624.  
*Chenopodium hybridum* L.,  $2n = 18$ ; Russia, Far East, NP & VS 6667.  
*Chenopodium rubrum* L.,  $2n = 18$ ; Russia, Far East, NP & VS 6666.  
*Kochia scoparia* (L.) Schrad.,  $2n = 18$ ; Russia, Far East, Ignatov 6622.

**CUCURBITACEAE**

- Actinostemma tenerum* Griff.,  $2n = 16$ ; Russia, Far East, NP & ER 5621.

**DIOSCOREACEAE**

- Dioscorea nipponica* Makino,  $2n = 20$ ; Russia, Far East, NP & VS 6653.

**FABACEAE**

- Vicia caucasica* Ekutim.,  $2n = 10$ ; Russia, Kabardino-Balkaria, NP & VS 4330.

**JUNCACEAE**

- Luzula pallidula* Kirschner,  $2n = 12$ ; Russia, Far East, NP & ER 5386.

**LAMIACEAE**

- Leonurus turkestanicus* V.I. Krecz. & Kuprian.,  $2n = 18$ ; Kazakhstan, NP & VS 5357.

**PAPAVERACEAE**

- Chelidonium asiaticum* (Hara) A. Krahulcová,  $2n = 10$ ; Russia, Far East, NP & ER 5026, 5030, 5079, 5512, 5514, NP & VS 4596, 5901, 6431.  
*Chelidonium majus* L.,  $2n = 12$ ; Latvia, NP 6376; Bulgaria, NP & VS 5992, 6250a; Ukraine, NP 5206; Russia, Leningradskaya Oblast', NP 5890; Russia, Moskovskaya Oblast', Probatov 6236; Kazakhstan, NP & VS 5252.

**POACEAE**

- Achnatherum confusum* (Litv.) Tzvelev,  $2n = 24$ ; Russia, Yakutia, NP & VS 3783.  
*Achnatherum splendens* (Trin.) Nevski,  $2n = \text{ca. } 48$ ; Kyrgyz Republic, NP & VS 5167;  $2n = 48$ ; Kazakhstan, NP & VS 5106.  
*Agrostis clavata* Trin.,  $2n = 42$ ; Russia, Far East, NP & VS 4433.  
*Agrostis trinii* Turcz.,  $2n = 28$ ; Russia, Far East, NP & VS 4426, 5970, NP 5564.  
*Anisantha sterilis* (L.) Nevski,  $2n = 14$ ; Turkmenistan, NP & VS 3471, 3522.  
*Anisantha tectorum* (L.) Nevski,  $2n = 14$ ; Kazakhstan, Averyanov 5352, 5366; Kyrgyz Republic, NP & VS 5337; Turkmenistan, NP & VS 3463, Sokolovskaya s. n.  
*Anisantha tectorum* var. *hirsuta* (Regel) Tzvelev,  $2n = 14$ ; Ukraine, NP 5341, 5360; Turkmenistan, NP & VS 3464, 3518.  
*Arctophila fulva* (Trin.) Andersson,  $2n = 42$ ; Russia, Far East, NP & VS 2732.  
*Aristida funiculata* Trin. & Rupr.,  $2n = 22$ ; India, NP & VS 4943.  
*Arundinella anomala* Steud.,  $2n = 34$ ; North Korea (DPRK), VS 3396.  
*Arundinella hirta* (Thunb.) Tanaka,  $2n = 36$ ; Russia, Far East, NP 5569, 5575.  
*Avenula dahurica* (Kom.) Holub,  $2n > 100$ ; Russia, Far East, NP & VS 4422a.  
*Avenula schelliana* (Hack.) Holub,  $2n = 14$ ; Russia, Yakutia, NP & VS 3824; Russia, Far East, NP & VS 4422b.  
*Beckmannia borealis* (Tzvelev) Prob.,  $2n = 14$ ; Russia, Yakutia, NP & VS 3966.  
*Beckmannia syzigachne* (Steud.) Fernald,  $2n = 14$ ; Russia, Far East, NP & ER 5486.  
*Bromopsis pumPELLIANA* (Scribn.) Holub,  $2n = 28$ ; Russia, Far East, NP & ER 4455;  $2n = 56$ ; Russia, Far East, NP & ER 4448.

- Bromus danthoniae* Trin.,  $2n = 14$ ; Turkmenistan, NP & VS 3474, 3552.
- Bromus japonicus* Thunb.,  $2n = 14$ ; Kazakhstan, NP & VS 5320; Turkmenistan, NP & VS 3467, 3468.
- Bromus japonicus* var. *velutinus* (W.D.J. Koch) Bornm.,  $2n = 14$ ; Turkmenistan, NP & VS 3461.
- Bromus pseudodanthoniae* Drobow,  $2n = 28$ ; Kazakhstan, Fedyaeva 3959a.
- Bromus pseudodanthoniae* var. *pubiglumis* Tzvelev,  $2n = 28$ ; Kazakhstan, Fedyaeva 3959b.
- Bromus scoparius* L.,  $2n = 14$ ; Turkmenistan, NP & VS 3446.
- Bromus squarrosus* L.,  $2n = 14$ ; Kyrgyz Republic, NP & VS 5334.
- Calamagrostis angustifolia* Kom.,  $2n = 28$ ; Russia, Far East, NP & ER 5482.
- Calamagrostis brachytricha* Steud.,  $2n = 42$ ; Russia, Far East, NP & VS 4418; North Korea (DPRK), VS 3388;  $2n = 49$ ; Russia, Far East, NP & VS 4423;  $2n = 56$ ; Russia, Far East, NP & VS 4457.
- Calamagrostis langsdorffii* (Link) Trin.,  $2n = 56$ ; Russia, Far East, NP & ER 5033.
- Calamagrostis meinshausenii* (Tzvelev) Vilyasov,  $2n = 28$ ; Russia, Leningradskaya Oblast', NP 4370.
- Calamagrostis neglecta* (Ehrh.) G. Gaertn., B. Mey. et Scherb.,  $2n = 28$ ; Russia, Leningradskaya Oblast', NP 4373.
- Calamagrostis phragmitoides* C. Hartm.,  $2n = 56$ ; Russia, Leningradskaya Oblast', NP 4376.
- Catabrosa aquatica* (L.) P. Beauv.,  $2n = 20$ ; Russia, Daghestan, NP 5413, 5422; Kyrgyz Republic, NP & VS 5140, NP & VS 5151; Turkmenistan, Ikonnikov 5581.
- Catabrosella araratica* (Lipsky) Tzvelev,  $2n = 28$ ; Armenia, Baloyan 5883.
- Cenchrus biflorus* Roxb.,  $2n = 34-36$ ; India, NP & VS 4938.
- Chloris roxburgiana* Schult.,  $2n = 40$ ; India, NP & VS 4930; Sri Lanka, NP & VS 4927.
- Cleistogenes kitagawae* Honda,  $2n = 40$ ; North Korea (DPRK), VS 3400.
- Corynephorus canescens* (L.) P. Beauv.,  $2n = 14$ ; Ukraine, NP 5194.
- Cynodon dactylon* (L.) Pers.,  $2n = 36$ ; Turkmenistan, NP & VS 3450, 3546.
- Cynosurus turcomanicus* Proskur.,  $2n = 14$ ; Turkmenistan, Belyanina & Proskuryakova 6536.
- Danthonia riabuschinskii* (Kom.) Kom.,  $2n = 36$ ; Russia, Far East, Yakubov 6282.
- Digitaria biformis* Willd.,  $2n = 36$ ; India, NP & VS 4921;  $2n = 72$ ; India, NP & VS 4924.
- Digitaria sanguinalis* (L.) Scop.,  $2n = 54$ ; North Korea (DPRK), VS 3439.
- Echinochloa colonum* (L.) Link,  $2n = 54$ ; India, NP & VS 4923.
- Echinochloa crusgalli* (L.) P. Beauv.,  $2n = 54$ ; Uzbekistan, NP & VS 5543.
- Echinochloa oryzoides* (Ard.) Fritsch,  $2n = 54$ ; Russia, Far East, Gularyants 6641; Uzbekistan, NP & VS 5601.
- Eleusine coracana* (L.) Gaertn.,  $2n = 36$ ; India, NP & VS 4933.
- Elymus sibiricus* L.,  $2n = 28$ ; Russia, Transbaikalia, NP 4700.
- Enteropogon monostachyos* (Vahl) K. Schum. ex Engl.,  $2n = 20$ ; India, NP & VS 4935.
- Festuca auriculata* Drobow,  $2n = 14$ ; Russia, Far East, Kharkevich 5237.
- Festuca brachyphylla* Schult. & Schult. f.,  $2n = 42$ ; Russia, Far East, Kharkevich 3990, Kharkevich & Buch 4629.
- Glyceria leptorhiza* (Maxim.) Kom.,  $2n = 20$ ; Russia, Far East, NP & VS 5945.
- Glyceria notata* Chevall.,  $2n = 40$ ; Tadzhikistan, NP & VS 3729, 3735; Turkmenistan, NP & VS 3526.
- Glyceria spiculosa* (F. Schmidt) Roshev.,  $2n = 40$ ; Russia, Yakutia, NP & VS 3785; Russia, Far East, NP & VS 4413, 4400.
- Glyceria triflora* (Korsh.) Kom.,  $2n = 20$ ; Russia, Yakutia, NP 3752.
- Heteropogon ritchiei* (Hook. f.) Blatt. & McCann,  $2n = 54$ ; Sri Lanka, NP & VS 4915.
- Hordeum bulbosum* L.,  $2n = 28$ ; Kazakhstan, Fedyaeva 3987.
- Hordeum jubatum* L.,  $2n = 28$ ; Russia, Yakutia, NP & VS 3828.
- Koeleria skrjabinii* Karav. & Tzvelev,  $2n = 28$ ; Russia, Yakutia, Nikolayev 5617.
- Leersia oryzoides* (L.) Sw.,  $2n = 48$ ; Russia, Far East, Nechaev 6652.
- Lolium rigidum* Gaudin,  $2n = 14$ ; Turkmenistan, NP & VS 3470.
- Melica transsilvanica* Schur,  $2n = 18$ ; Moldavia, NP & VS 5222; Kazakhstan, Averyanov 5351.
- Melica transsilvanica* var. *glabrata* Čelak. ex Lavrenko,  $2n = 18$ ; Kyrgyz Republic, NP & VS 5312.
- Melica uniflora* Retz.,  $2n = 18$ ; Moldavia, NP & VS 5220.
- Milium effusum* L.,  $2n = 28$ ; Moldavia, NP & VS 5218; Ukraine, Konechnaya 4543, Konechnaya 4546, NP 5278; Kazakhstan, NP & VS 5105; Russia, Novgorodskaya Oblast', NP 4353; Russia, Novosibirskaya Oblast', VS 4833; Russia, Far East, Shaga 6327, NP 5611.
- Molinia caerulea* (L.) Moench,  $2n = 36$ ; Russia, Leningradskaya Oblast', NP 4350; Ukraine, NP 5180.
- Muhlenbergia japonica* Steud.,  $2n = 40$ ; North Korea (DPRK), VS 3410
- Oplismenus burmannii* (Retz.) P. Beauv.,  $2n = 18$ ; India, NP & VS 4937.
- Panicum bisulcatum* Thunb.,  $2n = 36$ ; Russia, Far East, NP & VS 4916; North Korea (DPRK), VS 3384, 3434.
- Pennisetum orientale* Rich.,  $2n = 36$ ; Turkmenistan, NP & VS 3484, 3548.
- Phleum paniculatum* Huds.,  $2n = 28$ ; Turkmenistan, NP & VS 3465, 3506, 3520.
- Piptatherum virescens* (Trin.) Boiss.,  $2n = 24$ ; Moldavia, NP & VS 5226.
- Poa almasovii* Golub,  $2n = 56$ ; Russia, Far East, NP & VS 3616/1, 3616/2.
- Poa alpina* L.,  $2n = 32-35$ ; Russia, Daghestan, NP 5416.
- Poa altaica* Trin.,  $2n = 28$ ; Kazakhstan, Averyanov 5345.
- Poa attenuata* Trin.,  $2n = 28$ ; Kazakhstan, NP & VS 5134.
- Poa bucharica* Roshev.,  $2n = 14$ ; Tadzhikistan, NP & VS 3739.
- Poa bulbosa* L.,  $2n = 28$ ; Kyrgyz Republic, NP & VS 5288; Tadzhikistan, NP & VS 3867; Uzbekistan, NP & VS 6349;  $2n = 42$ ; Ukraine, NP 4532; Kazakhstan, NP & VS 5249, 5276; Tadzhikistan, Yaaska 3862; Uzbekistan, NP & VS 5609.
- Poa chaixii* Vill.,  $2n = 14$ ; Ukraine, Konechnaya 4542.
- Poa compressa* L.,  $2n = 42$ ; Russia, Leningradskaya Oblast', NP 4348; Russia, Moskovskaya Oblast', NP 5198; Ukraine, NP 5200.
- Poa fragilis* Ovcz.,  $2n = 42$ ; Tadzhikistan, Yaaska 3859.
- Poa malacantha* Kom.,  $2n = 56$ ; Russia, Far East, Gorshkov & Kozhevnikov 4591
- Poa nevskii* Roshev. ex Ovcz.,  $2n = ca. 42$ ; Turkmenistan, Bochtantsev 4528;  $2n = 42$ ; Kyrgyz Republic, NP & VS 5293.
- Poa palustris* L.,  $2n = 28$ ; Russia, Far East, NP & ER 4035.
- Poa paucispicula* Scribn. & Merr.;  $2n = 42$ ; Russia, Far East, Kharkevich & Buch 4593.
- Poa pratensis* L.,  $2n = 56$ ; Tadzhikistan, Yaaska 3860.
- Poa remota* Forselles,  $2n = 14$ ; Russia, Leningradskaya Oblast', NP 4351.

- Poa reverdattoi* Roshev.,  $2n = 42$ ; Russia, Bashkiria, *Muldashev & al.* 6161.
- Poa sabulosa* (Roshev.) Roshev.,  $2n > 80$ ; Russia, Yakutia, *Trufanova* 5881.
- Poa shumushuensis* Ohwi,  $2n = 28$ ; Russia, Far East, *Kharkevich & Buch* 4878.
- Poa sibirica* Roshev.,  $2n = 14$ ; Russia, Yakutia, *NP & VS* 3823; Russia, Far East, *Man'ko & Voroshilov* 4196.
- Poa sinaica* Steud.,  $2n = ca. 56$ ; Turkmenistan, *NP & VS* 3523.
- Poa skvortzovii* Prob.,  $2n = 42$ ; Russia, Far East, *VS* 4944, *NP & VS* 4892.
- Poa stepposa* (Krylov) Roshev.,  $2n = 42$ ; Russia, Yakutia, *Trufanova & Bogoradnikova* 5882.
- Poa sublanata* Reverd.,  $2n = ca. 70$ ; Russia, Far East, *NP & VS* 3301.
- Poa sylvicola* Guss.,  $2n = 14$ ; Turkmenistan, *NP & VS* 3505.
- Poa tatewakiana* Ohwi,  $2n = 42$ ; Russia, Far East, *NP & VS* 3314/2, 3314/5.
- Poa taurica* H.N. Pojark.,  $2n = 56$ ; Ukraine, *Tzvelyov* 5584/68.
- Poa tianschanica* (Regel) Hack. ex O. Fedtsch.,  $2n = 49$ ; Kyrgyz Republic, *NP & VS* 5327;  $2n = ca. 70$ ; Kazakhstan, *Kartavtseva* 4936.
- Poa trivialis* L.,  $2n = 14$ ; Russia, Leningradskaya Oblast', *NP* 3995.
- Poa turneri* Scribn.,  $2n = 42$ ; Russia, Far East, *NP & VS* 3312.
- Poa urssulensis* Trin.,  $2n = 42$ ; Uzbekistan, *NP & VS* 5546.
- Polypogon monspeliensis* (L.) Desf.,  $2n = 28$ ; Kyrgyz Republic, *NP & VS* 5171.
- Puccinellia distans* (Jacq.) Parl.,  $2n = 42$ ; Russia, Leningradskaya Oblast', *NP* 4343.
- Puccinellia kurilensis* (Takeda) Honda,  $2n = 42$ ; Russia, Far East, *NP & VS* 5495.
- Rostraria cristata* (L.) Tzvelev,  $2n = 26$ ; Russia, Daghestan, *NP* 5597.
- Sesleria caerulea* (L.) Ard.,  $2n = 28$ ; Russia, Leningradskaya Oblast', *NP* 4337.
- Setaria barbata* (Lam.) Kunth,  $2n = 36$ ; India, *NP & VS* 4922.
- Setaria pycnocomma* (Steud.) Henr. ex Nakai,  $2n = 18$ ; Kazakhstan, *Kartavtseva* 4902.
- Sphenopus divaricatus* (Gouan) Rchb.,  $2n = 24$ ; Turkmenistan, *Litvinova* 5583.
- Spodopogon sibiricus* Trin.,  $2n = ca. 40$ ; North Korea (DPRK), *VS* 3426;  $2n = 40$ ; North Korea (DPRK), *VS* 3433.
- Sporobolus piliferus* (Trin.) Kunth,  $2n = 40$ ; North Korea (DPRK), *VS* 3393.
- Stipa caucasica* Schmalh.,  $2n = 44$ ; Russia, Daghestan, *NP* 5423.
- Taeniatherum crinitum* (Schreb.) Nevski,  $2n = 14$ ; Kazakhstan, *Fedyeva* 3978, *NP & VS* 5251; Kyrgyz Republic, *NP & VS* 5247; Turkmenistan, *NP & VS* 3477, 3482.
- Trachynia distachya* (L.) Link,  $2n = 10$ ; Turkmenistan, *Ikonnikov* 5556.
- Trisetum agrostideum* (Laest.) Fr.,  $2n = 28$ ; Russia, Far East, *Nechaev* 5300, *Kharkevich* 6322.
- Trisetum alpestre* (Host) P. Beauv.,  $2n = 14$ ; Poland, *Mirek* 5580.
- Trisetum parvispiculatum* (Tzvelev) Prob.,  $2n = 12$ ; Russia, Daghestan *NP* 5598.
- Trisetum sibiricum* Rupr.,  $2n = 14$ ; Russia, Far East, *Kozhevnikov* 5262.
- Zoysia japonica* Steud.,  $2n = 40$ ; North Korea (DPRK), *VS* 3407, *VS* 3418.

#### POLYGONACEAE

- Polygonum rigidum* Skvortsov,  $2n = 40$ ; Russia, Far East, *Gulariants* 6673.

#### PRIMULACEAE

- Androsace septentrionalis* L.,  $2n = 20$ ; Russia, Far East, *Pavlova* 6246.
- Naumburgia thyrsiflora* (L.) Rchb.,  $2n = ca. 40$ ; Russia, Far East, *NP & VS* 5908;  $2n = 40$ ; Russia, Far East, *NP & ER* 5041.
- Primula cuneifolia* Ledeb.,  $2n = 22$ ; Russia, Far East, *NP & ER* 6067.
- Primula farinosa* L.,  $2n = 18$ ; Russia, Far East, *NP & VS* 6567.
- Trientalis europaea* L.,  $2n > 100$ ; Russia, Far East, *ER* 4258.

#### RANUNCULACEAE

- Halerpestes sarmentosa* (Adams) Kom.,  $2n = 16$ ; Kyrgyz Republic, *NP & VS* 5154.
- Ranunculus gmelinii* DC.,  $2n = 16$ ; Russia, Far East, *NP & ER* 5038.
- Thalictrum contortum* L.,  $2n = 14$ ; Russia, Far East, *NP & ER* 5091.
- Thalictrum sparsiflorum* Turcz. ex Fisch. et C.A. Mey.,  $2n = 14$ ; Russia, Far East, *ER* 4257.

#### RESEDACEAE

- Reseda lutea* L.,  $2n = 48$ ; Russia, Daghestan, *NP & VS* 4335:

#### ROSACEAE

- Dasiphora fruticosa* (L.) Rydb.,  $2n = 14$ ; Russia, Far East, *NP & ER* 4014.
- Geum aleppicum* Jacq.,  $2n = 42$ ; Russia, Far East, *NP & VS* 6406, *NP* 5783.
- Sorbus amurensis* Koehne,  $2n = 34$ ; Russia, Far East, *NP & VS* 5966.
- Sorbaria sorbifolia* (L.) A. Braun,  $2n = ca. 36$ ; Russia, Far East, *NP & VS* 5967.

#### RUBIACEAE

- Galium trifidum* L.,  $2n = ca. 24$ ; Russia, Far East, *NP & VS* 4599.

#### RUTACEAE

- Dictamnus dasycarpus* Turcz.,  $2n = ca. 36$ ; Russia, Far East, *ER* 4667.

#### SAXIFRAGACEAE

- Chryso-splenium flagelliferum* F. Schmidt,  $2n = 24$ ; Russia, Far East, *NP & VS* 5696.

#### THYMELAEACEAE

- Diarthron vesiculosum* (Fisch. & C.A. Mey. ex Kar. & Kir.) C.A. Mey.,  $2n = 18-20$ ; Kazakhstan, *Bikulova* 6318.

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### ALISMATACEAE

*Sagittaria trifolia* L.,  $2n = 22$ ; Russia, Far East, *ER* 8719.

### ALLIACEAE

*Allium condensatum* Turcz.,  $2n = 16$ ; Russia, Far East, *Prozorova* 8485.

*Allium macrostemon* Bunge,  $2n = 32$ ; Russia, Far East, *Chepinoga* & *Shatokhina* 9560, *Nechaev* 9628.

*Allium spirale* Willd. & Schltdl.,  $2n = 32$ ; Russia, Far East, *NP* & *VS* 7332.

### APIACEAE

*Bowlesia incana* Ruiz & Pav.,  $2n = 32$ ; Russia, Far East, *NP* 10888.

*Bupleurum longiradiatum* Turcz.,  $2n = 12$ ; Russia, Far East, *NP* & *VS* 7411.

*Oenanthe javanica* (Blume) DC.,  $2n = 44$ ; Russia, Far East, *NP* 8365, *NP* & *VS* 8631.

*Torilis japonica* (Houtt.) DC.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 8104.

### ARACEAE

*Arisaema amurense* Maxim.,  $2n = 56$ ; Russia, Far East, *Shibneva* 10552, *ER* 10579.

*Colocasia esculenta* Schott,  $2n = 28$ ; Japan, *Markevich* 10062.

*Symplocarpus egorovii* N.S. Pavlova & V. Neczaev,  $2n = 30$ ; Russia, Far East, *Nechaev* 10153.

*Symplocarpus renifolius* Schott ex Tzvelev,  $2n = 54$ ; Russia, Far East, *Pavlova* 10185.

### ASCLEPIADACEAE

*Metaplexis japonica* (Thunb.) Makino,  $2n = 24$ ; Russia, Far East, *Tsyrenova* 9863.

*Vincetoxicum acuminatum* Decne.,  $2n = 22$ ; Russia, Far East, *Kostin* 8994.

### ASTERACEAE

*Adenocaulon adhaerescens* Maxim.,  $2n = 46$ ; Russia, Far East, *NP* & *VS* 7779.

*Arctanthemum arcticum* (L.) Tzvelev,  $2n = 18$ ; Russia, Far East, *Yakubov* 9137.

*Arnica lessingii* Green,  $2n = 76$ ; Russia, Far East, *Yakubov* 8443.

*Artemisia annua* L.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7834.

*Artemisia littorica* Kitam.,  $2n = 36$ ; Russia, Far East, *VS* 10744.

*Artemisia stolonifera* (Maxim.) Kom.,  $2n = 36$ ; Russia, Far East, *NP* & *VS* 10702.

*Aster ageratoides* Turcz.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7756.

*Aster alpinus* L.,  $2n = 18$ ; Russia, Far East, *Yakubov* 8444.

*Aster maackii* Regel,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 8111.

*Centipeda minima* (L.) A. Braun & Asch.,  $2n = 20$ ; Russia, Far East, *Kryukova* 7589.

*Conyza canadensis* (L.) Cronquist,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7593.

*Crepis chrysantha* (Ledeb.) Turcz.,  $2n = 8$ ; Russia, Far East, *Yakubov* 8445, *Yakubov* 8740.

*Crepis tectorum* L.,  $2n = 8$ ; Russia, Far East, *NP* & *VS* 7184.

*Chrysanthemum zawadskii* Herbich,  $2n = 72$ ; Russia, East Siberia, *NP* & *VS* 10739.

*Hieracium umbellatum* L.,  $2n = 27$ ; Russia, Far East, *NP* & *VS* 7424.

*Inula japonica* Thunb.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7606.

*Kalimeris incisa* (Fisch.) DC.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7527.

*Leontodon autumnalis* L.,  $2n = 12$ ; Russia, Far East, *Imazu* 7281.

*Ligularia fischeri* (Ledeb.) Turcz.,  $2n = 60$ ; Russia, Far East, *Yakubov* 9145.

*Paraixeris denticulata* (Houtt.) Nakai,  $2n = 10$ ; Russia, Far East, *Lapenko* 8071.

*Picris kamschatca* Ledeb.,  $2n = 10$ ; Russia, Far East, *Yakubov* 8446.

*Saussurea neopulchella* Lipsch.,  $2n = 26$ ; Russia, Far East, *NP* & *VS* 7558.

*Saussurea pseudotilesii* Lipsch.,  $2n = 26$ ; Russia, Far East, *Yakubov* 8448.

*Senecio cannabifolius* Less.,  $2n = 40$ ; Russia, Far East, *Yakubov* 8422.

*Solidago canadensis* L.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 10476.

*Solidago gigantea* Ait.,  $2n = 36$ ; Russia, Far East, *ER* 10521.

*Tephrosia kirilowii* (Turcz. ex DC.) Holub,  $2n = 48$ ; Russia, Far East, *Lapenko* 7303.

*Tragopogon orientalis* L.,  $2n = 12$ ; Russia, Far East, *Babkina* 7790.

*Tripleurospermum subpolare* Pobed.,  $2n = 36$ ; Russia, Far East, *NP* & *VS* 7063.

### BALSAMINACEAE

*Impatiens glandulifera* Royle,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7566.

### BERBERIDACEAE

*Berberis sphaerocarpa* Kar. & Kir.,  $2n = 28$ ; Kazakhstan, *Dzha-kopova* 6881.

### BETULACEAE

*Carpinus cordata* Blume,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7778.

### BORAGINACEAE

*Echium vulgare* L.,  $2n = 16$ ; Russia, Far East, *Pavlova* 10450.

### BRASSICACEAE

*Alliaria petiolata* (M. Bieb.) Cavara & Grande,  $2n = 42$ ; Russia, Far East, *NP* & *VS* 7739.

*Arabis turczaninowii* Ledeb.,  $2n = 14$ ; Russia, Far East, *NP* & *VS* 7158.

*Barbarea orthoceras* Ledeb.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7796.

*Berteroa incana* (L.) DC.,  $2n = 16$ ; Russia, East Siberia, *NP* & *VS* 10483.

*Bunias orientalis* L.,  $2n = 14$ ; Russia, Far East, *NP* & *VS* 7993.

*Cardamine leucantha* (Tausch) O.E. Schulz,  $2n = 16$ ; Russia, Far East, *Babkina* 8801, *NP* & *VS* 7757.

*Cardamine manshurica* (Kom.) Nakai,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7758.

*Cardaminopsis gemmifera* (Matsum.) Berkut.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7725.

*Isatis japonica* Miq.,  $2n = 28$ ; Russia, Far East, *Kryukova* 7822.

*Parrya nudicaulis* (L.) Regel,  $2n = 14$ ; Russia, Far East, *Yakubov* 9689.

*Sisymbrium luteum* (Maxim.) O.E. Schulz,  $2n = 28$ ; Russia, Far East, *NP* & *VS* 7529.

**CAMPANULACEAE**

*Platycodon grandiflorus* (Jacq.) A. DC.,  $2n = 18$ ; Russia, Far East, *Yakubov* 9627.

**CAPRIFOLIACEAE**

*Lonicera maackii* (Rupr.) Herder,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7777.

**CARYOPHYLLACEAE**

*Cucubalus japonicus* (Miq.) Vorosch.,  $2n = 24$ ; Russia, Far East, *Rykunov* 8785.

*Gypsophila pacifica* Kom.,  $2n = 34$ ; Russia, Far East, *NP* & *VS* 7564.

*Lychnis fulgens* Fisch. ex Curt.,  $2n = 24$ ; Russia, Far East, *Voronkova* 7753.

*Sagina maxima* A. Gray,  $2n = 22$ ; Russia, Far East, *NP* & *VS* 7991.

**CHENOPODIACEAE**

*Kochia scoparia* (L.) Schrad.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 6661.

**COMMELINACEAE**

*Commelina communis* L.,  $2n = 48$ ; Russia, Far East, *Lapenko* 10650.

**CONVALLARIACEAE**

*Convallaria keiskei* Miq.,  $2n = 38$ ; Russia, Far East, *Kostin* 8995.

*Maianthemum dilatatum* (Alph. Wood) A. Nelson & J.F. Macbr.,  $2n = 54$ ; Russia, Far East, *ER* 7196.

*Polygonatum involucreatum* (Franch. & Sav.) Maxim.,  $2n = 18$ ; Russia, Far East, *Volynets* 10563.

*Polygonatum odoratum* (Mill.) Druce,  $2n = 20$ ; Russia, Far East, *ER* 7451.

**CRASSULACEAE**

*Aizopsis selskiana* (Regel & Maack) Grulich,  $2n = 32$ ; Russia, Far East, *Pavlova* 9267.

*Hylotelephium triphyllum* (Haw.) Holub,  $2n = 24$ ; Russia, Far East, *Yakubov* 9679.

*Rhodiola integrifolia* Rafin.,  $2n = 22$ ; Russia, Far East, *Yakubov* 8487.

*Rhodiola rosea* L.,  $2n = 22$ ; Russia, Far East, *Yakubov* 8488.

**CUPRESSACEAE**

*Microbiota decussata* Kom.,  $2n = 22$ ; Russia, Far East, *Gnutikov* 10295.

**CYPERACEAE**

*Fimbristylis ochotensis* (Meinsh.) Kom.,  $2n = 20$ ; Russia, Far East, *Chernyagina* 8433.

**ERICACEAE**

*Rhododendron aureum* Georgi,  $2n = 26$ ; Russia, Far East, *Yakubov* 9708.

*Rhododendron schlippenbachii* Maxim.,  $2n = 26$ ; Russia, Far East, *Korkishko* 10829.

*Rhododendron sichotense* Pojark.,  $2n = 26$ ; Russia, Far East, *Gulariants* 8769.

**EUPHORBIACEAE**

*Acalypha australis* L.,  $2n = 40$ ; Russia, Far East, *NP* & *VS* 10919.

**FABACEAE**

*Amphicarpaea japonica* (Oliv.) B. Fedtsch.,  $2n = 20$ ; Russia, Far East, *NP* & *VS* 7573.

*Gueldenstaedtia verna* (Georgi) Boriss.,  $2n = 16$ ; Russia, Far East, *Pavlova* 10144.

*Oxytropis chankaensis* Jurtz.,  $2n = 32$ ; Russia, Far East, *Kholina* 10590.

*Podocarpium mandshuricum* (Maxim.) Czerep.,  $2n = 22$ ; Russia, Far East, *NP* & *VS* 7386.

*Scorpiurus muricatus* L.,  $2n = 28$ ; Russia, Caucasus, *Ivanenko* 8525.

*Sophora flavescens* Sol.,  $2n = 18$ ; Russia, Far East, *Prilutsky* 7752.

*Trifolium pacificum* Bobrov,  $2n = 32$ ; Russia, Far East, *Man'ko* 7772, *NP* & *VS* 7341.

*Vicia cracca* L.,  $2n = 14$ ; Russia, Far East, *NP* & *VS* 7575.

*Vicia subrotunda* (Maxim.) Czefr.,  $2n = 12$ ; Russia, Far East, *Korkishko* 10831.

**HYDRANGEACEAE**

*Philadelphus tenuifolius* Rupr. & Maxim.,  $2n = 26$ ; Russia, Far East, *NP* & *VS* 7794.

**IRIDACEAE**

*Sisyrinchium septentrionale* E.P. Bicknell,  $2n = 64$ ; Russia, Far East, *Kapustina* 10628.

**LAMIACEAE**

*Clinopodium chinense* (Benth.) O. Kuntze,  $2n = 20$ ; Russia, Far East, *NP* & *VS* 7439, *Yakubov* 7171;  $2n = 36$ ; Russia, Far East, *NP* & *VS* 7362.

*Dracocephalum thymiflorum* L.,  $2n = 14$ ; Russia, Far East, *Lapenko* 7737.

*Lycopus maackianus* (Maxim.) Makino,  $2n = 22$ ; Russia, Far East, *NP* & *VS* 7691.

*Lycopus uniflorus* Michx.,  $2n = 22$ ; Russia, Far East, *NP* & *VS* 10519.

*Mosla dianthera* (Roxb.) Maxim.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7572.

*Scutellaria strigillosa* Hemsl.,  $2n = 16$ ; Russia, Far East, *VS* 10621.

**LILIACEAE**

*Lilium cernuum* Kom.,  $2n = 24$ ; Russia, Far East, *Urussov* 8014.

*Lilium pensylvanicum* Ker-Gawl.,  $2n = 24$ ; Russia, Far East, *Korkishko* 10848.

**MENISPERMACEAE**

*Menispermum dauricum* DC.,  $2n = 52$ ; Russia, Far East, *Zeya* R., *NP* & *VS* 10770.

**ORCHIDACEAE**

*Liparis nervosa* (Thunb.) Lindl.,  $2n = 42$ ; Vietnam, *Kudryavtseva* & *Ogureyeva* 7576.

*Tulotis ussuriensis* (Regel & Maack) Hara,  $2n = 42$ ; Russia, Far East, *Yakubov* 10037.

**PAPAVERACEAE**

*Chelidonium asiaticum* (Hara) A. Krahulcová,  $2n = 10$ ; Russia, East Siberia, *NP* & *VS* 10676; Russia, Far East, *NP* & *VS* 10700, *NP* & *VS* 10748, *NP* 8368, *VS* 10636; China, *NP* & *VS* 8527.

*Chelidonium majus* L.,  $2n = 12$ ; Russia, Caucasus, *NP* & *VS* 6970.



*Hylomecon vernalis* Maxim.,  $2n = 24$ ; Russia, Far East, *ER* 10574.

*Papaver sokolovskajae* Prob.,  $2n = 56$ ; Russia, Far East, *Orlovsky* 9924.

#### PHRYMACEAE

*Phryma asiatica* (Hara) O. Deg. & I. Deg.,  $2n = 28$ ; Russia, Far East, *NP* 8388, *NP* & *VS* 8055.

#### POACEAE

*Agrostis clavata* Trin.,  $2n = 42$ ; Russia, Far East, *Rubtsova* 8939.  
*Agrostis scabra* Willd.,  $2n = 42$ ; Russia, Far East, *Mochalova* 7742.

*Alopecurus arundinaceus* Poir.,  $2n = 28$ ; Russia, Far East, *Starchenko* 8954.

*Alopecurus longiaristatus* Maxim.,  $2n = 14$ ; Russia, Far East, *Rubtsova* & *Starchenko* 8955.

*Avenula schelliana* (Hack.) Holub,  $2n = 14$ ; Russia, Far East, *Pavlova* 9269.

*Beckmannia hirsutiflora* (Roshev.) Prob.,  $2n = 14$ ; Russia, Far East, *Kryukova* 7793, *Kryukova* 8089.

*Calamagrostis xandrewjii* Litv.,  $2n = 28$ ; Russia, East Siberia, *NP* & *VS* 10906.

*Calamagrostis brachytricha* Steud.,  $2n = 56$ ; Russia, Far East, *NP* & *VS* 10760.

*Calamagrostis obtusata* Trin.,  $2n = 28$ ; Russia, East Siberia, *NP* & *VS* 10920.

*Chloris virgata* Sw.,  $2n = 20$ ; Russia, Far East, *Shvydkaya* 9114.

*Elytrigia repens* (L.) Nevski,  $2n = 42$ ; Russia, East Siberia, *NP* & *VS* 10675; Russia, Far East, *NP* & *VS* 9142a.

*Eriochloa villosa* (Thunb.) Kunth,  $2n = 54$ ; Russia, Far East, *Kudrin* 8385.

*Eragrostis minor* Host,  $2n = 40$ ; Russia, East Siberia, *NP* & *VS* 10784.

*Festuca valesiaca* Gaudin,  $2n = 14$ ; Russia, Far East, *Lapenko* 10652.

*Glyceria triflora* (Korsh.) Kom.,  $2n = 20$ ; Russia, Far East, *Denissenko* 8720.

*Hordeum brevisubulatum* (Trin.) Link,  $2n = 28$ ; Russia, Far East, *NP* & *VS* 7061.

*Hordeum jubatum* L.,  $2n = 28$ ; Russia, Far East, *Shatokhina* 9715.

*Hordeum roshevitzii* Bowden,  $2n = 14$ ; Russia, Far East, *Nechaev* 8505.

*Melica nutans* L.,  $2n = 18$ ; Russia, Far East, *Babkina* 8827.

*Microstegium nodosum* (Kom.) Tzvelev,  $2n = 40$ ; Russia, Far East, *NP* & *VS* 8454.

*Neomolinia fauriei* (Hack.) Honda,  $2n = 38$ ; Russia, Far East, *Korkishko* 10923.

*Neomolinia mandshurica* (Maxim.) Honda,  $2n = 38$ ; Russia, Far East, *NP* & *VS* 7381, *Berkutenko* 8746.

*Parapholis incurva* (L.) C.E. Hubb.,  $2n = 36$ ; Greece, *Bezkorovainaya* 7784.

*Poa compressa* L.,  $2n = 42$ ; Russia, Far East, *ER* 7453.

*Poa botryoides* (Trin. ex Griseb.) Kom.,  $2n = 28$ ; Russia, Far East, *Denissenko* 9164.

*Poa palustris* L.,  $2n = 28$ ; Russia, Far East, *Tsyrenova* 9135.

*Poa paucispicula* Scribn. & Merr.,  $2n = 42$ ; Russia, Far East, *Yakubov* 7568.

*Poa pruinosa* Korotkij,  $2n = 42$ ; Russia, East Siberia, *Chepinoga* 10472.

*Poa vorobievii* Prob.,  $2n = 28$ ; Russia, Far East, *VS* 10619.

*Setaria faberi* Herrm.,  $2n = 36$ ; Russia, Far East, *Denissenko* 8734.

*Setaria pachystachys* (Franch. & Sav.) Matsum.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 7555.

#### POLEMONIACEAE

*Collomia linearis* Nutt.,  $2n = 16$ ; Russia, Far East, *Pavlova* 10457.

#### POLYGONACEAE

*Persicaria longiseta* (Bruyn) Kitag.,  $2n = 40$ ; Russia, Far East, *NP* & *VS* 7559.

*Polygonum propinquum* Ledeb.,  $2n = 20$ ; Russia, Far East, *NP* & *VS* 8146.

*Rumex maritimus* L.,  $2n = 40$ ; Russia, Far East, *NP* & *VS* 7195.

#### PONTEDERIACEAE

*Monochoria korsakowii* Regel & Maack,  $2n = 52$ ; Russia, Far East, *s. coll.* 9121.

#### PORTULACACEAE

*Claytonia perfoliata* Donn,  $2n = 24$ ; Russia, Far East, *NP* & *VS* 10742.

*Portulaca oleracea* L.,  $2n = 18$ ; Russia, Far East, *NP* & *VS* 10901;  $2n = 36$ ; Russia, Far East, *Kapustina* 10537.

#### PRIMULACEAE

*Androsace septentrionalis* L.,  $2n = 20$ ; Russia, Far East, *Yakubov* 9161.

*Cortusa discolor* Vorosch. & Gorovoj,  $2n = 24$ ; Russia, Far East, *Gulariants* 9020.

*Lysimachia clethroides* Duby,  $2n = 24$ ; Russia, Far East, *NP* & *VS* 7436.

#### RANUNCULACEAE

*Atragene ochotensis* Pall.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7166.

*Halerpestes sarmentosa* (Adams) Kom.,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7335.

*Ranunculus grandis* Honda,  $2n = 28$ ; Russia, Far East, *NP* 8367, *NP* & *VS* 7931.

*Ranunculus japonicus* Thunb.,  $2n = 14$ ; Russia, Far East, *Kapustina* 10898.

*Ranunculus sceleratus* L.,  $2n = 32$ ; Russia, Far East, *NP* & *VS* 10599.

*Thalictrum amurense* Maxim.,  $2n = 28$ ; Russia, Far East, *NP* & *VS* 7574.

#### ROSACEAE

*Dasiphora fruticosa* (L.) Rydb.,  $2n = 14$ ; Russia, Far East, *NP* & *VS* 7162.

*Fragaria mandshurica* Staudt,  $2n = 14$ ; Russia, Far East, *NP* & *VS* 10753.

*Geum aleppicum* Jacq.,  $2n = 42$ ; Russia, Far East, *Shatalova* 7463.

*Geum macrophyllum* Willd.,  $2n = 42$ ; Russia, Far East, *Yakubov* 8749.

*Malus mandshurica* (Maxim.) Kom.,  $2n = 34$ ; Russia, Far East, *NP* & *VS* 7755.

*Microcerasus tomentosa* (Thunb.) Eremin & Yushev,  $2n = 16$ ; Russia, Far East, *NP* & *VS* 7929.

*Padus asiatica* Kom.,  $2n = 32$ ; Russia, Far East, *NP* & *VS* 10771.

*Potentilla supina* L.,  $2n = 28$ ; China, *NP* & *VS* 8966, *NP* & *VS* 8962.

*Sanguisorba tenuifolia* Fisch. ex Link,  $2n = 28$ ; Russia, Far East, *Yakubov* 9146.

*Sieversia pentapetala* (L.) Greene,  $2n = 14$ ; Russia, Far East, Yakubov 9633.

*Spiraea salicifolia* L.,  $2n = 36$ ; Russia, Far East, Tsyrenova 9134.

#### RUBIACEAE

*Rubia cordifolia* L.,  $2n = 22$ ; Russia, Far East, NP & VS 10758.

#### SCROPHULARIACEAE

*Linaria japonica* Miq.,  $2n = 12$ ; Russia, Far East, Burundukova 9371.

*Pedicularis lanata* Cham. & Schltld.,  $2n = 16$ ; Russia, Far East, Yakubov 8843.

*Pennellianthus frutescens* (Lamb.) Crosswh.,  $2n = 40$ ; Russia, Far East, Yakubov 8486.

#### URTICACEAE

*Urtica cannabina* L.,  $2n = 26$ ; Russia, Far East, Pavlova 9977.

#### VALERIANACEAE

*Patrinia scabiosifolia* Fisch. ex Link,  $2n = 22$ ; Russia, Far East, NP & VS 7989.

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All materials CHN collected by J.-P. Reduron, M. Hildenbrand & H. Meyer, Conservatoire botanique de Mulhouse (CBM), chromosomes counted by R. Verlaque; vouchers in STR.

#### ASTERACEAE

*Inula* × *semiamplexicaulis* Reut.,  $2n = 16$ ; Switzerland, CBM 96-201.

*Senecio aquaticus* subsp. *barbareifolius* (Wimm. & Grab.) Walters,  $2n = 40$ ; France, CBM 875.

#### BRASSICACEAE

*Iberis linifolia* subsp. *contejeani* (Billot) Kerguélen,  $2n = 18$ ; France, CBM 8972.

#### GERANIACEAE

*Geranium palustre* L.,  $2n = 28$ ; France, CBM 02-088A.

#### SCROPHULARIACEAE

*Veronica austriaca* subsp. *pseudochamaedrys* (Jacq.) Kerguélen,  $2n = 64$ ; France, CBM 98-004.

#### VIOLACEAE

*Viola canina* subsp. *ruppilii* (All.) Schübl. & G. Martens,  $2n = 40$ ; France, CBM 06-032B.

#### APIACEAE

*Ammi huntii* H.C. Watson,  $2n = 22$ ; Azores: Faial Island, CBM 9703.

*Ammi trifoliatum* (H.C. Watson) Trel.,  $2n = 22$ ; Azores: Santa Maria Island, CBM 2011.

*Bonannia graeca* (L.) Halácsy,  $2n = 22$ ; Sicily, CBM 01-104.

*Foeniculum vulgare* subsp. *piperitum* (Ucria) Bég.,  $2n = 22$ ; France, CBM 9357.

*Glaucosciadium cordifolium* (Boiss.) B.L. Burtt & P.H. Davis,  $2n = 22$ ; Cyprus, CBM 04-100.

*Oenanthe lisae* Moris,  $2n = 22$ ; Sardinia, CBM 02-054.

*Scandix balansae* Reut. ex Boiss.,  $2n = 16$ ; France, CBM 05-005.

*Sison exaltatum* Boiss.,  $2n = 14$ ; Libanon, CBM 9731.

#### CYPERACEAE

*Carex fritschii* Waisb.,  $2n = 30$ ; France, CBM 9588.

#### IRIDACEAE

*Crocus neapolitanus* Ker Gawl.,  $2n = 16$ ; France, CBM 2073.

## IOPB COLUMN

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## IAPT/IOPB chromosome data 5

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**PLANTAGINACEAE (SCROPHULARIACEAE)**

*Mimulus glabratus* var. *fremontii* (Benth.) A.L. Grant  
 $n = 15$ , CHN. U.S.A., Kansas, Scott County, El Quartejejo Pueblo Ruins State Park, ca. 38°40'30" N, ca. 101°02'00" W, ca. 860 m, 4 Sep 1966, *G. Pollock s.n.*, R.K. Vickery, Jr. culture number 7649 (UT Herbarium 78336, 102,607).

*Mimulus glabratus* Humb., Bonpl. & Kunth var. *glabratus*  
 $n = 31$ , CHN. Colombia, Boyaca Department, La Capilla, ca. 5°54' N, ca. 73°03' W, ca. 2,750 m, 21 Jan 1980, *R.K. Vickery, Jr. & J. Ajioka* 2862, R.K. Vickery, Jr. culture number 13020 (UT 117817); Colombia, Boyaca Department, Sagamosa Grade, ca. 5°40' N, ca. 72°57' W, ca. 3,000 m, 24 Jan 1980, *R.K. Vickery, Jr. & J. Ajioka* 2874, R.K. Vickery, Jr. culture number 13032 (UT 102606).

*Mimulus pilosiusculus* Humb., Bonpl. & Kunth  
 $n = 46$ , CHN. Argentina, Rio Negro Province, Lago Gutierrez, ca. 41°14' S, ca. 71°25' W, ca. 780 m, 16 Feb 1980, *R.K. Vickery, Jr. & J. Ajioka* 2909, R.K. Vickery, Jr. culture number 13065 (UT 102651); Peru, Department of Ancash, Province of Bolognesi, Ancas, ca. 9°30' S, ca. 78°10' W, ca. 3,600 m, 13 Jun 1979, *E. Cerrate de Ferreyra s.n.*, R.K. Vickery, Jr. culture number 13067 (UT 102650).

*Mimulus andicolus* Humb., Bonpl. & Kunth  
 $n = 46$ , CHN. Argentina, Province of Salta, Rio Dos Pescados, ca. 22°44' S, ca. 64°28' W, ca. 475 m, 18 Oct 1971, *L. Arnou* 3614, R.K. Vickery, Jr. culture number 11079 (UT 102568).

*Mimulus longiflorus* (Nutt.) A.L. Grant ex L.H. Bailey  
 $n = 10$ , CHN. U.S.A., California, Santa Barbara County, Santa Cruz Island, road to Prisoners' Harbor, ca. 34°17' N, ca. 119°00'34" W, *Rancho Santa Ana Botanic Garden 10098*, R.K. Vickery, Jr. culture number 6254 (UT 75190).

*Mimulus nanus* Hook. & Arn.  
 $n = 16$ , CHN. U.S.A., California, Mono County, Mono Lake, desert annual forming a carpet of pink of ca. 1 hectare, ca. 38°01' N, ca. 118°55' W, ca. 2,500 m, 5 Aug 1967, *R.K. Vickery, Jr.* 2729, R.K. Vickery, Jr. culture number 7680 (UT 70032).

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- \* First chromosome count for the species.
- \*\* New chromosome number (cytotype) for the species.
- ▼ First chromosome number from a Turkish accession.

**ASTERACEAE**

*Hieracium bornmuelleri* Freyn

\*\*▼  $2n = 36$ , CHN. Turkey, A7 Gümüşhane: Şiran, Tersundağı pass, limestone rocky area in open coniferous forest, SW-facing slope, ca. 2,000 m, 40°17'55.2" N, 39°17'59.0" E, 15 Jul 2006, *Coşkunçelebi 606 & Vladimirov* (SOM 164177, KTUB).

*Hieracium erythrocarpum* s.l.

\*\*▼  $2n = 27$ , CHN. Turkey, A9 Artvin: Şavşat, rocky place by the road from Ardahan to Şavşat above Sahara National Park, margin of *Pinus sylvestris* and *Picea orientalis* forest, S-facing slope, ca. 2,100 m, 41°13'34.1" N, 42°27'24.1" E, 20 Jul 2006, *Coşkunçelebi 646 & Vladimirov* (KTUB).

▼  $2n = 36$ , CHN. Turkey, A7 Trabzon: Maçka, Zigana Mt., SW-facing slope above old road near the top of the mountain, ca. 1,800 m, 40°38'22.1" N, 39°23'46.7" E, 11 Jul 2006, *Coşkunçelebi 570 & Vladimirov* (KTUB).

*Hieracium lanceolatum* Vill. (s.l.)

$2n = 27$ , CHN. Turkey, A8 Trabzon: Araklı, Pazarcık settlement, margin of *Picea orientalis* forest by dirt road from Pazarcık to Gümüşhane (near the administrative border between Gümüşhane and Trabzon), ca. 1,500 m, 40°35'02.1" N, 40°00'28.5" E, 17 Jul 2006, *Coşkunçelebi 611 & Vladimirov* (SOM 164178, KTUB).

*Hieracium odontophyllum* Freyn & Sint.

\* $2n = 27$ , CHN. Turkey, A7 Gümüşhane: Torul, limestone rocks near Karaca Cave, SE-facing steep slope, 1450–1500 m, 40°32'38.0" N, 39°24'07.2" E, 15 Jul 2006, *Coşkunçelebi 598 & Vladimirov* (SOM 164179, KTUB).

All materials for the chromosome column should be submitted electronically to: Karol Marhold, [karol.marhold@savba.sk](mailto:karol.marhold@savba.sk) (Institute of Botany, Slovak Academy of Sciences, SK-845 23 Bratislava, Slovakia, and Department of Botany, Charles University, CZ 128-01 Prague, Czech Republic). The full version of this contribution is available in the online edition of TAXON. The following citation format is recommended: Baltisberger, M. & Voelger, M. 2006. *Sternbergia sicula*. In: Marhold, K. (ed.), IAPT/IOPB chromosome data 1. *Taxon* 55: 444, E2.

*Hieracium olympicum* Boiss.

\*\* $2n = 36$ , CHN. Turkey, A7 Gümüşhane: Şiran, Tersundağı Mt., Karamustafa köyü, eroded soil in dry places along the road from İkisü to Şiran at margin of *Abies nordmanniana* forest, 1,500–1,550 m, 40°19'12.0" N, 39°18'33.1" E, 15 Jul 2006, *Coşkunçelebi* 593 & *Vladimirov* (SOM 164180, KTUB).

*Hieracium* aff. *pannosum* Boiss.

▼  $2n = 27$ , CHN. Turkey, A7 Gümüşhane: Gotilbahçe vilage on the road from İkisü to Şiran, NE-facing rocks, ca. 1,100 m, 40°27'36.9" N, 39°21'37.4" E, 15 Jul 2006, *Coşkunçelebi* 589 & *Vladimirov* (SOM 164181, KTUB).

*Pilosella caespitosa* (Dumort.) P.D. Sell & C. West

▼  $2n = 27$ , CHN. Turkey, A7 Trabzon: Maçka, Zigana Mt., pasture above the road from Sümela to Cami Boğazi, E-facing slope, ca. 1,950 m, 40°38'00.5" N, 39°41'08.7" E, 12 Jul 2006, *Coşkunçelebi* 583 & *Vladimirov* (SOM 164183, KTUB).

*Pilosella cymosa* (L.) F.W. Schultz & Sch. Bip.

▼  $2n = 45$ , CHN. Turkey, A8 Rize: İkizdere, Anzer village, damp meadow, 2,100–2,200 m, 40°35'13.7" N, 40°31'00.9" E, 18 Jul 2006, *Coşkunçelebi* 630 & *Vladimirov* (SOM 164184, KTUB).

▼  $2n = 54$ , CHN. Turkey, A7 Gümüşhane: Şiran, Tersundağı pass, limestone rocky area with patches of coniferous forests, SW-facing slope, ca. 2,000 m, 40°17'55.2" N, 39°17'59.0" E, 15 Jul 2006, *Coşkunçelebi* 605 & *Vladimirov* (SOM 164185, KTUB); Turkey, A8 Rize: İkizdere, Anzer village, damp meadow, 2,100–2,200 m, 40°35'13.7" N, 40°31'00.9" E, 18 Jul 2006, *Coşkunçelebi* 629 & *Vladimirov* (SOM 164193, KTUB).

*Pilosella hoppeana* subsp. *cilicica* (Nägeli & Peter) P.D. Sell & C. West

▼  $2n = 18$ , CHN. Turkey, A7 Gümüşhane: Şiran, Tersundağı pass, limestone rocky area with patches of coniferous forests, SW-facing slope, ca. 2,000 m, 40°17'55.2" N, 39°17'59.0" E, 15 Jul 2006, *Coşkunçelebi* 602 & *Vladimirov* (SOM 164187, KTUB); Turkey, A7 Gümüşhane: Zigana Mt., SW-facing slope above old road near the top of the mountain, ca. 1,800 m, 40°38'22.1" N, 39°23'46.7" E, 11 Jul 2006, *Coşkunçelebi* 567 & *Vladimirov* (SOM 164188, KTUB).

*Pilosella hoppeana* subsp. *pilisquama* (Nägeli & Peter) P.D. Sell & C. West

▼  $2n = 18$ , CHN. Turkey, A7 Gümüşhane: Şiran, Tersundağı pass, limestone rocky area with patches of coniferous forests, SW-facing slope, ca. 2,000 m, 40°17'55.2" N, 39°17'59.0" E, 15 Jul 2006, *Coşkunçelebi* 603 & *Vladimirov* (SOM 164186, KTUB).

*Pilosella procera* (Fr.) F.W. Schultz & Sch. Bip.

▼  $2n = 36$ , CHN. Turkey, A9 Ardahan: Ardahan, *Pinus* sp. plantation above the road from Ardahan to Kars, ca. 10 km from Ardahan, ca. 1,900 m, 41°07'21.2" N, 42°47'14.7" E, 19 Jul 2006, *Coşkunçelebi* 636a & *Vladimirov* (SOM 164190, KTUB).

*Pilosella ruprechtii* (Boiss.) Dostál

\*  $2n = 36$ , CHN. Turkey, A9 Ardahan: Ardahan, rocky place above asphalted road ca. 12–15 km from Ardahan town to Yalınzçam ormanına giderken, S-facing slope, ca. 1,900 m, 41°03'37.0" N, 42°33'38.0" E, 19 Jul 2006, *Coşkunçelebi* 641 & *Vladimirov* (SOM 164191, KTUB).

*Pilosella* aff. *ruprechtii* (Boiss.) Dostál

$2n = 54$ , CHN. Turkey, A8 Trabzon: Araklı, pass on the road from Pazarcık to Gümüşhane, subalpine dry pasture, 1,750–1,800 m, 40°33'14.0" N, 40°01'45.3" E, 17 Jul 2006, *Coşkunçelebi* 610 & *Vladimirov* (SOM 164192, KTUB).

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Degree grid reference system used according to Edwards, D. & Leistner, O.A. 1971. A degree reference system for citing biological records in southern Africa. *Mitt. Bot. Staatssamml. München* 10: 501–509.

**POACEAE***Andropogon amethystinus* Steud.

$n = 20$ , CHN. South Africa, Free State, 2828 (Bethlehem): Witsieshoek vacation resort (-DB), 8 Dec 1998, *J.J. Spies* 6677 (BLFU).

*Andropogon appendiculatus* Nees

$n = 10$ , CHN. South Africa, Eastern Cape, 3027 (Lady Grey): 35 km of Aliwal North to Lady Grey (-CA), 17 Nov 1999 *J.J. Spies* 6946, 6949 (BLFU).

$n = 20$ , CHN. South Africa, Free State, 2827 (Senekal): 33 km from Senekal to Ficksburg (-DB), 7 Dec 1998, *J.J. Spies* 6638 (BLFU).

*Andropogon eucomus* Nees

$n = 5$ , CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 32 km from Carolina to Belfast (-CC), 6 Nov 1991, *J.J. Spies* 5107 (BLFU).

*Andropogon schirensis* A. Rich.

$n = 10$ , CHN. South Africa, Free State, 2829 (Harrismith): Sterkfontein (-CA), 5 Nov 1991, *J.J. Spies* 5084 (BLFU).

*Arthraxon lanceolatus* (Roxb.) Hochst. var. *lanceolatus*

$n = 9$ , CHN. South Africa, Mpumalanga, 2430 (Pilgrim's Rest): On top of Blyderiviers Poort (-DB), Oct 1983, *J.J. Spies* 1424 (PRE).

*Bothriochloa bladonii* (Retz.) S.T. Blake

$n = 10$ , CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 27 km from Lydenburg to Machadodorp (-AD), 7 Nov 1991, *J.J. Spies* 5143 (BLFU).

$n = 20$ , CHN. South Africa, Gauteng, 2527 (Rustenburg): Near Hartebeespoort Dam (-BB), 16 Aug 1988, *J.J. Spies* 3720 (PRE); Kwazulu-Natal, 2930 (Pietermaritzburg): 5 km from Muden to Greytown (-BA), 1 Jan 1989, *H. du Plessis* 141 (PRE).

*Bothriochloa insculpta* (A. Rich.) A. Camus

$n = 20$ , CHN. South Africa, Gauteng, 2528 (Pretoria): Soutpan experimental farm (-AC), 4 Sep 1988, *J.J. Spies* 3321 (PRE); Northern Cape, 2820 (Kakamas): Augrabies waterfall (-CB), 20 Sep 1994, *J.J. Spies* 5681 (BLFU); Kwazulu-Natal, 2832 (St. Lucia): 22 km from Cape Vidal to St. Lucia (-AD), Oct 1985, *J.J. Spies* 2407 (PRE).

- Bothriochloa radicans* (Lehm.) A. Camus  
 n = 10, CHN. South Africa, Free State, 2927 (Maseru): 26 km from De Wetsdorp to Hobhouse (-DB), 11 Feb 1991, *J.J. Spies 4784* (BLFU).
- Cymbopogon dieterleniae* Stapf ex E. Phillips  
 n = 10, CHN. South Africa, Free State, 2827 (Senekal): 41 km from Rosendal to Ficksburg via Nebo (-DB), 7 Dec 1998, *J.J. Spies 6642* (BLFU).
- Cymbopogon marginatus* (Steud.) Stapf ex Burtt Davy  
 n = 10, CHN. South Africa, Western Cape, 3420 (Bredasdorp): 1 km of De Hoop (-AB), 24 Sep 1991, *J.J. Spies 5051* (BLFU).
- Cymbopogon pospischilii* (K. Schum.) C.E. Hubb.  
 n = 10, CHN. South Africa, Gauteng, 2528 (Pretoria): Soutpan experimental farm (-AC), 4 Sep 1988, *J.J. Spies 3322* (PRE); Free State, 2827 (Senekal): 6 km from Nebo to Fouriesburg (-DB), 11 Feb 1991, *J.J. Spies 4842* (BLFU); Eastern Cape, 3324 (Steytlerville): 53 km from Patensie to Willowmore in Baviaanspoort (-CB), 2 Feb 1992, *J.J. Spies 5206* (BLFU).
- Diheteropogon amplexens* (Nees) Clayton  
 n = 10, CHN. South Africa, CHN. South Africa, Gauteng, 2527 (Rustenburg): Near Hartebeespoort Dam (-BB), 16 Aug 1988, *J.J. Spies 3719* (PRE); Free State, 2828 (Bethlehem): 19 km from Fouriesburg to Clarens (-CA), 11 Feb 1991, *J.J. Spies 4821* (BLFU).
- Elionurus muticus* (Spreng.) Kuntze  
 n = 5, CHN. South Africa, Gauteng, 2527 (Rustenburg): Near Hartebeespoort Dam (-BB), 16 Aug 1988, *J.J. Spies 3698, 3700* (PRE), 2528 (Pretoria): Soutpan experimental farm (-AC), 23 Aug 1988, *J.J. Spies 3735* (PRE); Free State, 2927 (Maseru): 42 km from De Wetsdorp to Hobhouse (-CA), 11 Feb 1991, *J.J. Spies 4792* (BLFU).
- n = 10, CHN. South Africa, Mpumalanga, 2629 (Bethal): Near Bethal (-AD), 20 Nov 1988, *H. du Plessis 70* (PRE); Kwazulu-Natal, 2729 (Volksrust): 93 km from Harrismith to Normandien (-DC), 5 Nov 1991, *J.J. Spies 5074* (BLFU); Eastern Cape, 3027 (Barkly East): On top of Kraairivier Pass (-CD), Oct 1986, *J.J. Spies 2493* (PRE).
- n = 30, CHN. Swaziland, 2631 (Mbabane): Sebebe Hill, 10 km North-east of Mbabane (-AC), Oct 1987, *J.J. Spies 2537* (PRE).
- Eulalia villosa* (Thunb.) Nees  
 n = 10, CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 37 km from Lydenburg to Sabie (-BA), 24 Oct 1988, *E.J.L. Saayman 66* (PRE).
- Heteropogon contortus* (L.) Roem. & Schult.  
 n = 10, CHN. South Africa, Free State, 2827 (Senekal): 33 km from Senekal to Rosendal (-BC), 7 Dec 1998, *J.J. Spies 6628* (BLFU).
- Hyparrhenia anamesa* Clayton  
 n = 20, CHN. South Africa, Free state, 2827 (Senekal): 8 km from Clocolan (-DC), 11 Feb 1991, *J.J. Spies 4807* (BLFU).
- Hyparrhenia filipendula* (Hochst.) Stapf. var. *filipendula*  
 n = 20, CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 27 km from Lydenburg to Machadodorp (-AD), 7 Nov 1991, *J.J. Spies 5144* (BLFU).
- Hyparrhenia hirta* (L.) Stapf  
 n = 10, CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 5 km from Belfast to Dullstroom (-CA), 6 Nov 1991, *J.J. Spies 5112* (BLFU); Kwazulu-Natal, 2729 (Volksrust): 97 km from Harrismith to Normandien (-DC), 5 Nov 1991, *J.J. Spies 5079* (BLFU).
- n = 20, CHN. South Africa, Mpumalanga, 2629 (Bethal): 9 km from Ermelo to Breyten (-DB), 6 Nov 1991, *J.J. Spies 5100* (BLFU); Free State, 2828 (Bethlehem): 10 km from Clarens to Golden Gate (-DA), 7 Dec 1998, *J.J. Spies 6656* (BLFU).
- Hyparrhenia pilgerana* C.E. Hubb.  
 n = 10, CHN. South Africa, Western Cape, 3420 (Bredasdorp): 4 km from Bredasdorp to Swellendam (-CA), 9 Jul 1991, *J.J. Spies 4851* (BLFU).
- n = 20, CHN. South Africa, Eastern Cape, 3027 (Lady Grey): 15 km from Barkly East to Lady Grey (-DC), 28 Sep 1990, *J.J. Spies 4738* (BLFU).
- Imperata cylindrica* (L.) Raeusch.  
 n = 20, CHN. South Africa, Mpumalanga, 2530 (Lydenburg): 4 km from Lydenburg to Machadodorp (-AD), 24 Oct 1988, *H. du Plessis 35* (PRE).
- Ischaemum fasciculatum* Brongn.  
 n = 10, CHN. Swaziland, 2631 (Mbabane): Sebebe Hill (-AC), Oct 1987, *J.J. Spies 2563* (PRE).
- n = 10, CHN. South Africa, Kwazulu-Natal, 2832 (Mtubatuba): 6 km from Hluhluwe to Sodwana (-AA), Oct 1985, *J.J. Spies 2358* (PRE).
- Rottboellia cochinchinensis* (Lour.) Clayton  
 n = 9, CHN. South Africa, Kwazulu-Natal, 2931 (Verulam): Balito Bay (-AC), 26 Dec 1988, *H. du Plessis 118* (PRE).
- Sorghum bicolor* subsp. *arundinaceum* (Desv.) de Wet & Harlan  
 n = 10, CHN. South Africa, Kwazulu-Natal, 2931 (Verulam): Near the "Outlook" on way from Balito Bay to Umtali (-AC), 26 Dec 1988, *H. du Plessis 117* (PRE).
- Themeda triandra* Forssk.  
 n = 10, CHN. South Africa, Eastern Cape, 3027 (Lady Grey): Near Dordrecht on the way to Lady Grey (-DC), Oct 1986, *J.J. Spies 2489* (PRE).
- Trachypogon spicatus* (L. f.) Kuntze  
 n = 10, CHN. South Africa, Western Cape, 3321 (Ladismith): 62 km from Barrydale to Riversdal over Garcia Pass (-CC), Oct 1994, *J.J. Spies 5480* (BLFU).
- Urelytrum agropyroides* (Hack.) Hack.  
 n = 10, CHN. South Africa, Gauteng, 2528 (Pretoria): 1 km from Cullinan to Pretoria (-DA), Oct 1985, *J.J. Spies 2081* (PRE).

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\* First chromosome count for the species.

Degree grid reference system used according to Edwards,  
D. & Leistner, O.A. 1971. A degree reference system for citing  
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München* 10: 501–509.

**HYACINTHACEAE**

*Lachenalia algoensis* Schonl.

2n = 14, CHN. South Africa, Eastern Cape, 3425 (Skoen-  
makerskop): St. Francis Bay (-AA), *G.D. Duncan* s.n. (NBG).

*Lachenalia aloides* (L.f.) Engl. var. *aloides*

2n = 14, CHN. South Africa, Western Cape, 3318 (Cape  
Town): Malmesbury (-BC), *G.D. Duncan* 282 (NBG).

*Lachenalia arbutnotiae* W.F. Barker

2n = 14, CHN. South Africa, Western Cape, 3318 (Cape  
Town): Cape Town Airport (-CD), *G.D. Duncan* 94 (NBG).

*Lachenalia bulbifera* (Cirillo) Engl.

2n = 42, CHN. South Africa, Western Cape, 3317 (Sal-  
danha): Saldanha (-BB), *G.D. Duncan* 90 (NBG).

*Lachenalia capensis* W.F. Barker

2n = 28, CHN. South Africa, Western Cape, 3418 (Simons  
Town): Simons Town (-AB), *G.D. Duncan* 139 (NBG).

*Lachenalia carnosa* Baker

2n = 16, CHN. South Africa, Northern Cape, 3017 (Honde-  
klipbaai): Kamieskroon (-BB), *G.D. Duncan* 185 (NBG).

\* *Lachenalia cernua* G.D. Duncan

2n = 28, CHN. South Africa, Western Cape, 3319 (Worces-  
ter): Bains Kloof (-AC), *G.D. Duncan* 428 (NBG).

\* *Lachenalia concordiana* Schltr. ex W.F. Barker

2n = 14, CHN. South Africa, Northern Cape, 2918  
(Gamoep): Aggenys (-BB), *P. Desmet* 2431 (NBG).

*Lachenalia contaminata* Ait.

2n = 14, CHN. South Africa, Western Cape, 3318 (Cape  
Town): Darling (-AD), *G.D. Duncan* 321 (NBG).

\* *Lachenalia doleritica* G.D. Duncan

2n = 18, CHN. South Africa, Northern Cape, 3119 (Cal-  
vinia): Calvinia (-BD), *M. Thomas* s.n. (NBG).

\* *Lachenalia duncanii* W.F. Barker

2n = 18, CHN. South Africa, Northern Cape, 3018 (Kam-  
iesberg): Kliprand (-DA), *G.D. Duncan* 189 (NBG).

*Lachenalia fistulosa* Baker

2n = 28, CHN. South Africa, Western Cape, 3318 (Cape  
Town): Signal Hill (-CD), *G.D. Duncan* 303 (NBG).

\* *Lachenalia framesii* W.F. Barker

2n = 16, CHN. South Africa, Western Cape, 3118 (Van-  
rhynsdorp): Vanrhynsdorp (-DA), *R. Jangle* s.n. (NBG).

\* *Lachenalia giessii* W.F. Barker

2n = 32, CHN. Namibia, 2516 (Helmeringhausen): Hel-  
meringhausen (-DD), *G. Williamson* s.n. (NBG).

\* *Lachenalia gillettii* W.F. Barker

2n = 16, CHN. South Africa, Western Cape, 3218 (Clanwil-  
liam): Piketberg (-DA), *C. Taswell-Yates* s.n. (NBG).

\* *Lachenalia inconspicua* G.D. Duncan

2n = 18, CHN. South Africa, Northern Cape, 2917 (Spring-  
bok): Springbok (-DB), *G.D. Duncan* 381 (NBG).

*Lachenalia isopetala* Jacq.

2n = 40, CHN. South Africa, Northern Cape, 3119 (Cal-  
vinia): Calvinia (-BD), *P. Perry* 3065 (NBG).

*Lachenalia juncifolia* Baker

2n = 22, CHN. South Africa, Western Cape, 3421 (Rivers-  
dal): Still Bay (-AD), *P. Bohlen* 40314 (NBG).

\* *Lachenalia klinghardtiana* Dinter

2n = 14, CHN. Namibia, 2816 (Oranjemund): Richters-  
veld (-AA), *F. Patterson* s.n. (NBG); South Africa, Northern  
Cape, 2816 (Oranjemund): Alexanderbaai (-DA), *A. de Villiers*  
s.n. (NBG).

\* *Lachenalia lactosa* G.D. Duncan

2n = 14, CHN. South Africa, Western Cape, 3419 (Cale-  
don): Kleinmond (-AC), *G.D. Duncan* 417 (NBG).

\* *Lachenalia latimeriae* W.F. Barker

2n = 14, CHN. South Africa, Eastern Cape, 3323 (Willow-  
more): Baviaanskloof (-BC), *P. Vorster* 3028 (NBG).

\* *Lachenalia leomontana* W.F. Barker

2n = 14, CHN. South Africa, Western Cape, 3420 (Bredas-  
dorp): Swellendam (-AB), *M. Botha* s.n. (NBG).

*Lachenalia longibracteata* Phillips

2n = 14, CHN. South Africa, Western Cape, 3118 (Van-  
rhynsdorp): Klawer (-DC), *G.D. Duncan* 207 (NBG).

\* *Lachenalia macgregoriorum* W.F. Barker

2n = 22, CHN. South Africa, Northern Cape, 3119 (Cal-  
vinia): Nieuwoudtville (-AC), *W. Barker* 9766 (NBG).

\* *Lachenalia margaretae* W.F. Barker

2n = 14, CHN. South Africa, Western Cape, 3218 (Clan-  
william): Pakhuis Pass (-BB), *F. Paterson* s.n. (NBG).

\* *Lachenalia marginata* subsp. *neglecta* Schltr. ex G.D.  
Duncan

2n = 14, CHN. South Africa, Western Cape, 3218 (Clan-  
william): Clanwilliam (-BB), *G.D. Duncan* 238 (NBG).

\* *Lachenalia marlothii* W.F. Barker ex G.D. Duncan  
 $2n = 14$ , CHN. South Africa, Northern Cape, 2917 (Springbok): Bulletrap (-BD), *Symmons s.n.* (NBG).

\* *Lachenalia martinae* W.F. Barker  
 $2n = 26$ , CHN. South Africa, Western Cape, 3218 (Clanwilliam): Clanwilliam (-BB), *G.D. Duncan 141* (NBG).

*Lachenalia mathewsii* W.F. Barker  
 $2n = 14$ , CHN. South Africa, Western Cape, 3217 (Vredenburg): Vredenburg (-DD), *G.D. Duncan 200* (NBG).

*Lachenalia mediana* var. *rogersii* (Baker) W.F. Barker  
 $2n = 26$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Porterville (-BB), *T. Toerien s.n.* (NBG).

\* *Lachenalia minima* W.F. Barker  
 $2n = 18$ , CHN. South Africa, Western Cape, 3118 (Vanrhynsdorp): Bitterfontein (-AB), *G.D. Duncan 171* (NBG).

\* *Lachenalia moniliformis* W.F. Barker  
 $2n = 22$ , CHN. South Africa, Western Cape, 3319 (Worcester): Worcester (-CB), *P. Perry 795* (NBG).

*Lachenalia mutabilis* Sweet  
 $2n = 14$ , CHN. South Africa, Western Cape, 3118 (Vanrhynsdorp): Vanrhynsdorp (-DA), *G.D. Duncan 176* (NBG); 3317 (Saldanha): Saldanha (-BB), *G.D. Duncan 87* (NBG).

*Lachenalia namaquensis* Schltr. ex W.F. Barker  
 $2n = 16$ , CHN. South Africa, Northern Cape, 2917 (Springbok): Kosies (-BA), *N. van Berkel 273* (NBG).

\* *Lachenalia namibiensis* W.F. Barker  
 $2n = 22$ , CHN. Namibia, 2716 (Witputz): Namuskluft (-DD), *J. Lavranos 19955* (NBG); South Africa, Northern Cape, 2816 (Oranjemund): Numeis (-BD), *J. Lavranos 7217* (NBG).

\* *Lachenalia neilii* W.F. Barker ex G.D. Duncan  
 $2n = 18$ , CHN. South Africa, Northern Cape, 3119 (Calvinia): Nieuwoudtville (-AC), *G.D. Duncan 196* (NBG).

*Lachenalia nervosa* Ker-Gawl.  
 $2n = 16$ , CHN. South Africa, Western Cape, 3420 (Bredasdorp): Swellendam (-AB), *M. Botha s.n.* (NBG).

*Lachenalia obscura* W.F. Barker  
 $2n = 36$ , CHN. South Africa, Northern Cape, 3119 (Calvinia): Calvinia (-BD), *G.D. Duncan 108* (NBG); 3120 (Williston): Williston (-BD), *Snijman 1028* (NBG).

*Lachenalia orchioides* (L.) Ait.  
 $2n = 14$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Potsdam (-DC), *P. Allen s.n.* (NBG).

*Lachenalia orchioides* var. *glaucina* (Jacq.) W.F. Barker  
 $2n = 28$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Kirstenbosch Estate (-CD), *G.D. Duncan 131* (NBG).

*Lachenalia orthopetala* Jacq.  
 $2n = 16$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Durbanville (-DC), *G.D. Duncan 262* (NBG).

*Lachenalia pallida* Ait.  
 $2n = 16$ , CHN. South Africa, Western Cape, 3319 (Worcester): Tulbagh (-AC), *G.D. Duncan 357* (NBG).

\* *Lachenalia physocaulos* W.F. Barker  
 $2n = 14$ , CHN. South Africa, Western Cape, 3319 (Worcester): Robertson (-DD), *G.D. Duncan 288* (NBG).

\* *Lachenalia polyphylla* Baker  
 $2n = 22$ , CHN. South Africa, Western Cape, 3319 (Worcester): Gouda (-AC), *G.D. Duncan 348* (NBG).

*Lachenalia pustulata* Jacq.  
 $2n = 16$ , CHN. South Africa, Western Cape, 3217 (Vredenburg): Cape Columbine Nature Reserve (-DD), *G.D. Duncan 164* (NBG).

*Lachenalia rosea* Andr.  
 $2n = 14$ , CHN. South Africa, Western Cape, 3419 (Caledon): Elgin (-AA), *G.D. Duncan 354* (NBG), Genadendal (BA), *G.D. Duncan 810* (NBG).

\* *Lachenalia thomasiae* W.F. Barker ex G.D. Duncan  
 $2n = 14$ , CHN. South Africa, Western Cape, 3218 (Clanwilliam): Clanwilliam (-BB), *G.D. Duncan 350* (NBG).

\* *Lachenalia valeriae* G.D. Duncan  
 $2n = 16$ , CHN. South Africa, Northern Cape, 2917 (Springbok): Komaggas (-DC), *J. Lavranos 28585* (NBG).

*Lachenalia variegata* W.F. Barker  
 $2n = 14$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Cape Town Airport (-CD), *G.D. Duncan 392* (NBG).

\* *Lachenalia ventricosa* Schltr. ex W.F. Barker  
 $2n = 14$ , CHN. South Africa, Western Cape, 3118 (Vanrhynsdorp): Klawer (-DC), *G.D. Duncan 191* (NBG).

\* *Lachenalia youngii* Baker  
 $2n = 16$ , CHN. South Africa, Western Cape, 3423 (Kny-sna): Storms River (-BB), *R. McMaster s.n.* (NBG).

\* *Lachenalia zebrina* f. *densiflora* W.F. Barker  
 $2n = 30$ , CHN. South Africa, Northern Cape, 3119 (Calvinia): Calvinia (-BD), *N. du Plessis s.n.* (NBG).

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\* First chromosome count for the species.

\*\* New chromosome number (cytotype) for the species.

Degree grid reference system used according to Edwards, D. & Leistner, O.A. 1971. A degree reference system for citing biological records in southern Africa. *Mitt. Bot. Staatssamml. München* 10: 501–509.

## SOLANACEAE

\* *Lycium acutifolium* E. Mey. ex Dunal  
 $2n = 24$ , CHN. South Africa, Kwazulu-Natal, 2832

(Nkandla): Umfolozi Game Reserve (-BC), 13 Dec 1988, *A.M. Venter 225*, 7 Dec 1992, 423, 426, 427 (BLFU).

*Lycium afrum* L.

$2n = 24$ , CHN. South Africa, Western Cape, 3218 (Clanwilliam): near Elands Bay (-AD), 31 Dec 1995, *A.M. Venter 511* (BLFU).

\* *Lycium amoenum* Dammer

$2n = 24 + 0-1B$ , CHN. South Africa, Western Cape, 3218 (Clanwilliam): 30 km east of Lamberts Bay (-BA), 24 Aug 1996 *A.M. Venter 563* (BLFU); 1 km east of Graafwater (-BA), 26 Sep 1991, *A.M. Venter 379* (BLFU).

*Lycium arenicola* Miers

\*\*  $2n = 48$ , CHN. South Africa, Northern Cape, 2922 (Prieska): Muishoek, banks of Brak River (-DB), 31 Dec 1992, *A.M. Venter 535* (BLFU).

$2n = 72$ , CHN. South Africa, Western Cape, 3321 (Ladismith): East of bridge over Grootrivier on Barrydale-Ladismith road (-CA), 23 Jan 1993, *A.M. Venter 451* (BLFU).

\* *Lycium bosciifolium* Schinz

$2n = 24$ , CHN. Namibia, 2816 (Oranjemund): 5 km east of the Lorelei Mine (-BB), 27 Sep 1989, *H.J.T. Venter 9214* (BLFU); 3 km east of Alexander Bay (-CB), 20 Aug 1992, *A.M. Venter 393* (BLFU); 2817 (Vioolsdrif): Jan Haak Road (-AD), 24 Jun 1995, *A.M. Venter 484* (BLFU); South Africa, Northern Cape, 2817 (Vioolsdrif): Kook River, west of Kubusberg (-AA), 28 Sep 1992, *A.M. Venter 407*, 1 Oct 1992, *A.M. Venter 418, 419, 420* (BLFU); 2820 (Kakamas): 1 km south of Augrabies National Park (-CB), 20 Aug 1992, *A.M. Venter 398* (BLFU); 2922 (Prieska): 20 km east of Prieska (-DB), 30 Sep 1995, *A.M. Venter 493* (BLFU).

\* *Lycium cinereum* Thunb.

$2n = 24$ , CHN. South Africa, Limpopo Province, 2329 (Pietersburg): At the Tropic of Capricorn along the Pietersburg-Louis Trichardt road (-BB), 28 Feb 1991, *A.M. Venter 344* (BLFU); Northern Cape, 2821 (Upington): 24 km from Upington to Olifantshoek (-AC), 10 Jul 1996, *A.M. Venter 558* (BLFU); 3122 (Loxton): 56 km from Loxton to Fraserburg (-DB), 30 Sep 1990, *A.M. Venter 336* (BLFU); Western Cape, 3321 (Ladismith): East of bridge over Grootrivier on Barrydale-Ladismith road (-CA), 21 Apr 1991, *A.M. Venter 450* (BLFU); 3322 (Oudtshoorn): 28 km south of Oudtshoorn (-CD), 18 Jun 1998, *A.M. Venter 603* (BLFU).

\* *Lycium decumbens* Welw. ex Hiern.

$2n = 24$ , CHN. Namibia, 2113 (Cape Cross): Cape Cross (-DD), 21 Feb 1999, *A.M. Venter 621* (BLFU).

\* *Lycium eenii* S. Moore

$2n = 24$ , CHN. Namibia, 2116 (Okahandja): 113 km north of Okahandja (-BB), 12 Jul 1995, *A.M. Venter 490* (BLFU); 104 km north of Okahandja (-BB), 12 Jul 1995, *A.M. Venter 491* (BLFU).

*Lycium europaeum* L.

$2n = 24$ , CHN. Spain, 36N04E (Almeria): near Adra (-DC), 25 Dec 1996, *A.M. Venter 577* (BLFU).

\* *Lycium ferocissimum* Miers

$2n = 24$ , CHN. South Africa, Western Cape, 3118 (Van-

rhynsdorp): 1 km east of Yzerfontein (-AC), 29 Sep 1991, *A.M. Venter 375* (BLFU); 3318 (Cape Town): Near Melkbosstrand (-CD), 21 Apr 1991, *A.M. Venter 345*, 22 Apr 1991, *A.M. Venter 354*, 7 Jan 1991, *A.M. Venter 442, 443*, 28 Feb 1991, *A.M. Venter 444* (BLFU); 3420 (Bredasdorp): 2 km from Bredasdorp to Struisbaai (-CA), *Spies 5040* (BLFU); 3421 (Riversdale): Stilbaai-East (-AD), 18 Jan 1998, *A.M. Venter 601* (BLFU).

*Lycium garipeense* A.M. Venter

$2n = 24$ , CHN. Namibia, 2817 (Vioolsdrif): Western bank of the Fish River (-AA), 1 Sep 1997, *A.M. Venter 590* (BLFU).

$2n = 48$ , CHN. Namibia, 2817 (Vioolsdrif): 21 km west of Fish River confluence with Orange River (-AB), 21 Feb 1999, *A.M. Venter 622* (BLFU).

\* *Lycium grandicalyx* Joubert & Venter

$2n = 24$ , CHN. Namibia, 2716 (Witputz): 13 km north of Witputz Police Station (-CD), 26 Jun 1995, *A.M. Venter 485* (BLFU).

*Lycium hantamense* A.M. Venter

$2n = 48$ , CHN. South Africa, Western Cape, 3119 (Calvinia): 0.5 km from turn-off to farm Glenlyon, Nieuwoudtville-Matjiesfontein road (-AC), 29 Jun 2006, *A.M. Venter 707* (BLFU); 1 km south of Calvinia (-BD), 29 Jun 2006, *A.M. Venter 709* (BLFU).

\* *Lycium hirsutum* Dunal

$2n = 24$ , CHN. South Africa, Northern Cape, 2816 (Oranjemund): 3 km east of Alexander Bay (-CB), 20 Sep 1992, *A.M. Venter 394* (BLFU); 2824 (Kimberley): Along Windsorton-Barkly West road (-BC), 27 Aug 1991, *A.M. Venter 360* (BLFU); Along Kimberly-Barkly West road (-DA), 20 Jul 1989, *A.M. Venter 311* (BLFU).

*Lycium horridum* Thunb.

\*\*  $2n = 24$ , CHN. Namibia, 2817 (Otjosondou): Stormberg (-AD), 1 Sep 1997, *A.M. Venter 591* (BLFU).

$2n = 48$ , CHN. Namibia, 2817 (Otjosondou): Stormberg (-AD), 27 Sep 1989, *H.J.T. Venter 9215* (BLFU).

\* *Lycium mascarenense* A.M. Venter & A.J. Scott

$2n = 24$ , CHN. South Africa, Kwazulu-Natal, 2632 (Belle Vista): Black Rock (-BB), 6 Dec 1992, *A.M. Venter 421, 422*, 20 Dec 1993, *A.M. Venter 456* (BLFU).

$2n = 48$ , CHN. South Africa, Kwazulu-Natal, 2632 (Belle Vista): Black Rock (-BB), 20 Dec 1993, *A.M. Venter 457* (BLFU).

\* *Lycium oxycarpum* Dunal

$2n = 24$ , CHN. South Africa, Northern Cape, 3222 (Beaufort West): 89 km from Matjiesfontein to Sutherland (-AB), 30 Sep 1990, *A.M. Venter 337* (BLFU); Western Cape, 3319 (Worcester): Along the Worcester-De Doorns road (-CB), 20 Dec 1993, *A.M. Venter 356* (BLFU); 3320 (Montagu): Tradeaux Pass (-DC), 23 Jan 1993, *A.M. Venter 447* (BLFU).

\* *Lycium pilifolium* C.H. Wright

$2n = 24$ , CHN. Namibia, 2616 (Aus): 7 km from Aus to Rosh Pinah (-CB), 10 Jul 1997, *A.M. Venter 580* (BLFU); South



Africa, Northern Cape, 2824 (Kimberley): Weir Siding near Barkly West (-DA), 31 Dec 1993, *A.M. Venter 464* (BLFU).

\* *Lycium pumilum* Dammer

$2n = 24$ , CHN. South Africa, Northern Cape, 3119 (Calvinia): 17 km from Calvinia to Williston (-DB), 27 Sep 1991, *A.M. Venter 383* (BLFU), 3123 (Victoria West): 14 km north of Richmond (-BD), 20 Sep 1991, *A.M. Venter 367* (BLFU).

\* *Lycium schizocalyx* C.H. Wright

$2n = 24$ , CHN. South Africa, Limpopo Province, 2229 (Waterpoort): 70 km from Swartwater to Alldays (-CA), 4 Feb 1996, *A.M. Venter 545* (BLFU).

\* *Lycium schweinfurthii* Dammer

$2n = 24$ , CHN. Egypt, 30N29E (Alexandria): Burg-el-Arab (-DC), 7 Dec 1996, *A.M. Venter 576* (BLFU).

\* *Lycium shawii* Roem. & Schult.

$2n = 24$ , CHN. Egypt, 29° N, 32° E (Cairo): Wadi Hagul (-CD), 6 Dec 1996, *A.M. Venter 574, 575* (BLFU); South Africa, Limpopo Province, 2329 (Pietersburg): Bandolierskop crossing on N1 north of Pieterburg (-BD), 31 Dec 1992, *A.M. Venter 433, 434, 435, 436* (BLFU); 2431 (Acornhoek): Northwest of Leeupan near Skukuza, National Kruger game reserve (-DC), 30 Dec 1992, *A.M. Venter 428, 429*.

*Lycium strandveldense* A.M. Venter

$2n = 48$ , CHN. South Africa, Western Cape, 2318 (Clanwilliam): 5 km from Lamberts Bay to Clanwilliam (-AB), 7 Dec 1994, *A.M. Venter 479* (BLFU), Malkop Bay (-AB), 31 Dec 1995, *A.M. Venter 507* (BLFU).

\* *Lycium tenue* Willd.

$2n = 24$ , CHN. South Africa, Western Cape, 3419 (Caledon): 1 km from Riviersonderend to Swellendam (-BB), 23 Jun 1993, *A.M. Venter 446* (BLFU); 3420 (Bredasdorp): 20 km from Swellendam to Bredasdorp (-AB), 5 Jan 1996, *A.M. Venter 519* (BLFU); 7 km from Bredasdorp to Napier (-CA), 18 Jan 1993, *A.M. Venter 438* (BLFU); 4 km from Bredasdorp to Waenhuiskrans (-CA), 18 Jan 1993, *A.M. Venter 439* (BLFU).

*Lycium tetrandrum* Thunb.

\*\*  $2n = 48$ , CHN. Namibia, 2615 (Luderitz): Luderitz (-CA), 10 Jul 1997, *A.M. Venter 573* (BLFU).

$2n = 72$ , CHN. Namibia, 2214 (Swakopmund): Swakopmund (-DA), 5 Jul 1997, *A.M. Venter 569* (BLFU); South Africa, Northern Cape, 2816 (Oranjemund): Beauvillon (-CB), 20 Sep 1992, *A.M. Venter 395* (BLFU); Western Cape, 3218 (Clanwilliam): 22 km east of Lamberts Bay (-BA), 31 Dec 1995, *A.M. Venter 500* (BLFU).

**Naturally occurring interspecific hybrids**

\* *Lycium bosciifolium* × *L. horridum*

$2n = 24$ , CHN. South Africa, Northern Cape, 2820 (Kakamas): 2 km from Friersdale to Kakamas (-DB), 25 Sep 1992, *A.M. Venter 399* (BLFU).

*Lycium afrum* × *L. ferocissimum*

$2n = 24$ , CHN. South Africa, Western Cape, 3318 (Cape Town): Near Melkbosstrand (-CD), 20 Jan 1993, *A.M. Venter 445* (BLFU).

\* *Lycium ferocissimum* × *L. horridum*

$2n = 48$ , CHN. South Africa, Western Cape, 3420 (Bredasdorp): 2 km from Waenhuiskrans to Bredasdorp (-CA), 25 Sep 1991, *Spies 5054* (BLFU); Eastern Cape, 3324 (Steytlerville): 20 km from Patensie to Willowmore (-DC), 2 Jan 1992, *Spies 5185* (BLFU).

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Counted by late A.P. Sokolovskaya (1905–1995).

\* First chromosome count for the species.

\*\* New chromosome number (cytotype) for the species.

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**ADOXACEAE**

*Adoxa moschatellina* L.

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, vicinity of Krasnorechensk, the upper course of Belii Spring, mixed forest, 19 Jul 1984, *Probatova & Seledets 6402* (VLA); Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve "Kedrovaya Pad'", the valley of Kedrovaya River, broadleaved forest, 18 May 1983, *Nepomnyashchaya 6237* (VLA).

**APIACEAE**

*Bupleurum longiradiatum* Turcz.

$2n = 12$ , CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, the south-east lakeside of Udyll' Lake, 25 km from Ukhta channel, stony bank of Bol'shaya Bay, 25 Jun 1981, *Probatova & Seledets 5925* (VLA).

*Cnidium monnieri* (L.) Cusson ex Juss.

$2n = 20$ , CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, near the railway station Khorol', waste place, 2 Oct 1985, *Gulariants 6642* (VLA).

*Oenanthe javanica* (Blume) DC.

$2n = 44$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, Andreevka–Zarubino crossroad, small pond near railway, 20 Sep 1979, *Probatova & Rudyka 5493* (VLA).

*Pastinaca sylvestris* Mill.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, near Khorol' settlement, on waste ground, 3 Sep 1984, *Probatova & Rudyka 6468* (VLA).

**ASTERACEAE**

*Artemisia integrifolia* L.

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Chernigovskii Raion, outskirts of Vadimovka village, the flood-plain of Lefu River, 14 Sep 1979, *Probatova & Rudyka 5665* (VLA).

*Aster tataricus* L. f.

2n = 54, CHN. Russia, Far East, Khabarovskii Krai, 29 km eastwards of Khabarovsk, near the railway station Khekhhtzir, oak forest, 19 Sep 1976, *Probatova & Seledets 4644* (VLA).

*Carduus crispus* L.

2n = 18 + 1–2B, CHN. Russia, Caucasus, Kabardino-Balkaria, in vicinity of Gundelen village, 1,150 m, upland meadow, 1 Aug 1975, *Probatova & Seledets 4610* (VLA).

\* *Centaurea adpressa* Ledeb.

2n = 20, CHN. Russia, Caucasus, Daghestan, outskirts of Derbent, Dzhalgansky mountain ridge, near Naryn-Kala, shrub community, 14 Jul 1975, *Probatova & Seledets 4331* (VLA).

*Centaurea jacea* L. aggr.

2n = 20, CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, vicinity of Cholpon-Ata, sandy-clay semi-desert, 1 Aug 1978, *Probatova & Seledets 5377* (VLA).

\* *Centaurea ossethica* Sosn.

2n = 20, CHN. Russia, Caucasus, Kabardino-Balkaria, in vicinity of Gundelen village, 1,150 m, meadow, 1 Aug 1975, *Probatova & Seledets 4326* (VLA).

*Doellingeria scabra* (Thunb.) Nees

2n = 18, CHN. Russia, Far East, Khabarovskii Krai, 29 km eastwards of Khabarovsk, near the railway station Khekhhtzir, oak forest, 19 Sep 1976, *Probatova & Seledets 4632* (VLA).

*Eupatorium lindleyanum* DC.

2n = 20, CHN. Russia, Far East, Khabarovskii Krai, Amur River, opposite of Khabarovsk, near the railway station Priamurskaya, meadow, 8 Sep 1976, *Probatova & Seledets 4607* (VLA); Russia, Far East, Primorskii Krai, Khankaiskii Raion, Khanka Lake, 8 km southwards of Kamen'-Rybolov settlement, moist meadow, 17 Aug 1977, *Rudyka 4742* (VLA).

*Hieracium murorum* L. aggr.

2n = 27, CHN. Russia, Caucasus, Daghestan, 16 km westwards of Buinaksk, in vicinity of Manas-Aul, at the foot of Gimrinskii mountain ridge, 960 m, *Fagus* forest on the slope to Manas-Ozen' River, 18 Jun 1979, *Probatova 5594* (VLA).

*Lapsana communis* L.

2n = 14, CHN. Russia, Caucasus, Severnaya Ossetiya, Severo-Ossetinskii nature reserve, Tsei highland, 1,910 m, a glade in *Pinus* forest, 4 Aug 1975, *Probatova & Seledets 4325* (VLA).

*Leibnitzia anandria* (L.) Turcz.

2n = 46, CHN. Russia, Far East, Amurskaya Oblast', 2 km of Tyndinskii settlement, right riverside of Tynda River (Zeya River basin), moist meadow, 8 Jun 1975, *Probatova & Rudyka 4025* (VLA); Russia, Far East, Amurskaya Oblast', 35 km of Tyndinskii settlement to BAM railway station, right riverside of Tynda River, 14 Jun 1975, *Rudyka 4252* (VLA).

*Picris nuristanica* Bornm.

2n = 10, CHN. Kyrgyz Republic, Issyk-Kul' Lake area, 20 km northwards of Semionovka, Semionovskoe canyon, ca. 2,000 m, 30 Jul 1978, *Probatova & Seledets 5273* (VLA).

*Saussurea pulchella* (Fisch.) Fisch.

2n = 26, CHN. Russia, Far East, Primorskii Krai,

Khorol'skii Raion, near the railway station Khorol', meadow along the railway, 30 Sep 1985, *Gulariants 6634* (VLA).

*Tanacetum boreale* Fisch. ex DC.

2n = 18, CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, the south-east lakeside of Udyl' Lake, 25 km from Ukhta channel, forest edge, 28 Jun 1981, *Probatova & Seledets 5938* (VLA).

*Tridax procumbens* L.

2n = 36, CHN. Sri Lanka, Colombo, waste ground, by the road, 22 Oct 1977, *Probatova & Seledets 4911* (VLA).

#### BETULACEAE

*Betula pendula* Roth

2n = 28, CHN. Russia, Caucasus, Daghestan, Gunibskii Raion, near Verkhonii Gunib village, white birch forest, 17 Jul 1975, *Probatova & Seledets 4329* (VLA).

#### BRASSICACEAE

*Arabis turczaninowii* Ledeb.

2n = 14, CHN. Russia, Far East, Khabarovskii Krai, Ayano-Mayskii Raion, near Kurun-Yuriakh village (Aldan River basin, the system of Lena River), 24 Jul 1978, *Buch & Yashenkova 5684* (VLA).

*Cardamine leucantha* (Tausch) O.E. Schulz

2n = 16, CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, in vicinity of Dal'negorsk, Partizanskaya Pad', Mramornii Spring, mixed forest, 14 Sep 1985, *Probatova & Seledets 6618* (VLA).

*Cardamine scutata* Thunb.

2n = 32, CHN. Russia, Kamchatka, Elizovskii Raion, 7 km westwards of Paratunka village, flood-plain forest along Paratunka River, at the rivulet, 30 Jul 1982, *Probatova & Rudyka 6048* (VLA).

#### CAPPARACEAE

\* *Cleome steveniana* Schult. & Schult. f.

2n = 20, CHN. Armenia, Krasnosel'skii Raion, 10 km from Artanish, sandy beach of Sevan Lake, 27 Aug 1975, *Probatova & Seledets 4327* (VLA).

#### CHENOPODIACEAE

*Chenopodium glaucum* L.

2n = 18, CHN. Russia, Far East, Primorskii Krai, Shkotovskii Raion, 4 km to the south-west of Shkotovo, sea shore, 18 Sep 1985, *Ignatov 6624* (VLA, MHA).

*Chenopodium hybridum* L.

2n = 18, CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, Dal'negorsk, roadside, 13 Sep 1985, *Probatova & Seledets 6667* (VLA).

*Chenopodium rubrum* L.

2n = 18, CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, Dal'negorsk, dump near a factory, 13 Sep 1985, *Probatova & Seledets 6666* (VLA).

*Kochia scoparia* (L.) Schrad.

2n = 18, CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, the railway station Khorol', on the railroad embankment, 30 Sep 1985, *Ignatov 6622* (VLA).

**CUCURBITACEAE**

*Actinostemma tenerum* Griff. (= *A. lobatum* (Maxim.) Maxim ex Franch. & Sav.)

2n = 16, CHN. Russia, Far East, Primorskii Krai, Khanka Lake basin, near Shirokoye Lake, close to the mouth of Ilistaya (Lefu) River, 13 Sep 1979, *Probatova & Rudyka 5621* (VLA).

**DIOSCOREACEAE**

*Dioscorea nipponica* Makino

2n = 20, CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, vicinity of Dal'negorsk, Partizanskaya Pad', Mramornii Spring, mixed forest, 14 Sep 1985, *Probatova & Seledets 6653* (VLA).

**FABACEAE**

*Vicia caucasica* Ekutim.

2n = 10, CHN. Russia, Caucasus, Kabardino-Balkaria, in vicinity of Gundelen village, 1,150 m, meadow, 1 Aug 1975, *Probatova & Seledets 4330* (VLA).

**JUNCACEAE**

*Luzula pallidula* Kirschner

2n = 12, CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, near Bogorodskoe, meadow, 2 Jul 1978, *Probatova & Rudyka 5386* (VLA).

**LAMIACEAE**

*Leonurus turkestanicus* V.I. Krecz. & Kuprian.

2n = 18, CHN. Kazakhstan, near Alma-Ata, on mountainside to Malaya Alma-Atinka River, 16 Jul 1978, *Probatova & Seledets 5357* (VLA).

**PAPAVERACEAE**

*Chelidonium asiaticum* (Hara) A. Krahulcová

2n = 10, CHN. Russia, Far East, Amurskaya Oblast', Selemdzha River, 122 km above the mouth of the river, right bank, Dagmara settlement, 30 Aug 1976, *Probatova & Seledets 4596* (VLA); Russia, Far East, Khabarovskii Krai, Amur River opposite Khabarovsk, near the railway station Priamurskaya, shrubs community on the railbed slope, 16 Jun 1978, *Probatova & Rudyka 5026* (VLA); Russia, Far East, Khabarovskii Krai, Amur River in 30 km downstream from Khabarovsk, near Voronezh-3 village, 18 Jun 1978, *Probatova & Rudyka 5030* (VLA); Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, near Solontsy village, artificial depression by the road, 1 Jul 1978, *Probatova & Rudyka 5079* (VLA); Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, Udyl' Lake, south-east lakeside, 8 km from Ukhta channel, forest spring, 24 Jun 1981, *Probatova & Seledets 5901* (VLA); Russia, Far East, Primorskii Krai, Dal'negorskii Raion, near Rudnaya Pristan', sea shore, 18 Jul 1984, *Probatova & Seledets 6431* (VLA); Russia, Far East, Primorskii Krai, Khassanskii Raion, Gamov Peninsula, Troitsa Gulf, near Marine experimental station, Grotovaya Bay, by the rocks, 19 Sep 1979, *Probatova & Rudyka 5512* (VLA); Russia, Far East, Primorskii Krai, Khassanskii Raion, Gamov Peninsula, Troitsa Gulf, Rissovaya Bay, sea shore, at the place of tourist camp, 19 Sep 1979, *Probatova & Rudyka 5514* (VLA).

*Chelidonium majus* L.

2n = 12, CHN. Latvia, Rizhskoe Vzmor'e, Kemer health resort, at the mineral spring, 14 Apr 1984, *Probatova 6376* (VLA); Bulgaria, near Varna, Zoloty Peski resort, roadside in the forest, 2 Jun 1981, *Probatova & Seledets 5992* (VLA); Bulgaria, Kazanlak, on roadside, 5 Jun 1981, *Probatova & Seledets*

6250a (VLA); Ukraine, Kirovograds'ka Oblast', Kremenchugskoe reservoir, Tsubul'nikskii Bay, in vicinity of Svetlovodsk, the border of *Pinus* forest belt, 7 Sep 1978, *Probatova 5206* (VLA); Russia, Leningradskaya Oblast', St. Petersburg, as a weed in the park of the Botanical Institute, 6 May 1981, *Probatova 5890* (VLA); Russia, Moskovskaya Oblast', Zagorsk town, as a weed in a small private garden, 27 Jun 1983, *Probatov 6236* (VLA); Kazakhstan, 13 km of Alma-Ata, Medeo, 1,700 m, roadside, 19 Jul 1978, *Probatova & Seledets 5252* (VLA).

**POACEAE**

*Achnatherum confusum* (Litv.) Tzvelev

2n = 24, CHN. Russia, East Siberia, Yakutia, 10 km southwest from Yakutsk, Chuchur-Muran hill, at the bottom of the hill, 12 Aug 1973, *Probatova & Seledets 3783* (VLA).

*Achnatherum splendens* (Trin.) Nevski

2n = ca. 48, CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, 20 km northwards of Semionovka, Semionovskoe canyon, ca. 2,000 m, mountain steppe, 30 Jul 1978, *Probatova & Seledets 5167* (VLA).

2n = 48, CHN. Kazakhstan, in vicinity of Alma-Ata, Medeo, the valley of Malaya Alma-Atinka River, 1,750 m, 15 Jul 1978, *Probatova & Seledets 5106* (VLA).

*Agrostis clavata* Trin.

2n = 42, CHN. Russia, Far East, Amurskaya Oblast', Mazanovskii Raion, sandbank of Zeya River near Mazanovo, 18 Aug 1976, *Probatova & Seledets 4433* (VLA).

*Agrostis trinii* Turcz.

2n = 28, CHN. Russia, Far East, Amurskaya Oblast', Svo-bodnenskii Raion, near Malaya Sazanka village, south-east slope, steppe-meadow community, 15 Aug 1976, *Probatova & Seledets 4426* (VLA); Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, 5 km above Bogorodskoe, pebble bank of Amur River, 2 Jul 1981, *Probatova & Seledets 5970* (VLA); Russia, Far East, Primorskii Krai, Terneyskii Raion, near Plastun, post-forest meadow, 8 Aug 1979, *Probatova 5564* (VLA).

*Anisantha sterilis* (L.) Nevski

2n = 14, CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, the Yilguinly canyon, dry bed of a spring, 27 Apr 1972, *Probatova & Seledets 3471* (VLA); Turkmenistan, Kopet-Dagh, near Duzly-Depe settlement, Sumbar River, left bank, 15 May 1972, *Probatova & Seledets 3522* (VLA).

*Anisantha tectorum* (L.) Nevski

2n = 14, CHN. Kazakhstan, Alma-Atinskaya Oblast', Chil-Bastau, lower part of a slope, steppe vegetation with *Artemisia* spp., 28 Jun 1978, *Averyanov 5352* (VLA); Kazakhstan, Alma-Atinskaya Oblast', Siugaty Mts., by the road to Bartogoy, a slope in a canyon, 1,200 m, 8 Jul 1978, *Averyanov 5366* (VLA); Kyrgyz Republic, Issyk-Kul' Lake northern area, near Cholpon-Ata, sandy-clay semi-desert, 1 Aug 1978, *Probatova & Seledets 5337* (VLA); Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe village, the Yilguinly canyon, clay hill, pasture, 27 Apr 1972, *Probatova & Seledets 3463* (VLA); Turkmenistan, Kyzil-Kum desert, central part, the Station of the Desert Institute, on the sands, 1964, *Sokolovskaya s.n.* (VLA).

*Anisantha tectorum* var. *hirsuta* (Regel) Tzvelev

2n = 14, CHN. Ukraine, Kirovograds'ka Oblast', Kre-

menchugskoe reservoir, in vicinity of Svetlovodsk, on the bank, 6 Sep 1978, *Probatova 5341* (VLA); Ukraine, Cherkass'ka Oblast', middle course of Dnepr River, opposite Kanev, sandy bank, 9 Sep 1979, *Probatova 5360* (VLA); Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, the Yilguinly canyon, clay hill, 27 Apr 1972, *Probatova & Seledets 3464* (VLA); Turkmenistan, Kopet-Dagh, 1.5 km northwards of Duzly-Depe, 12 May 1972, *Probatova & Seledets 3518* (VLA).

*Arctophila fulva* (Trin.) Andersson

$2n = 42$ , CHN. Russia, Far East, Kamchatskaya Oblast', North Koryakiya, Olyutorskii Raion, 1.5 km southwards of Khailino village, terrace of Tylgovayam River, meadow bog, 15 Aug 1970, *Probatova & Seledets 2732* (VLA).

*Aristida funiculata* Trin. & Rupr.

$2n = 22$ , CHN. India, Radzhastkhan, outskirts of Jaypur, sandy savanna with *Acacias* and tussock grasses, 28 Oct 1977, *Probatova & Seledets 4943* (VLA).

*Arundinella anomala* Steud.

$2n = 34$ , CHN. North Korea (DPRK), Vonsan, opposite of Sosnovii Island, the valley of a stream, 21 Oct 1971, *Seledets 3396* (VLA).

*Arundinella hirta* (Thunb.) Tanaka

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Terneiskii Raion, near Plastun, post-forest meadow, 8 Aug 1979, *Probatova 5569* (VLA); Russia, Far East, Primorskii Krai, Terneyskii Raion, 18 km southwards of Ternei, Sikhote-Alinskii nature reserve, Blagodatnaya Bay, sea shore, meadow on sandbank, 10 Aug 1979, *Probatova 5575* (VLA).

*Avenula dahurica* (Kom.) Holub

$2n > 100$ , CHN. Russia, Far East, Amurskaya Oblast', 43 km westwards of Svobodnii town, near railway station Ledyanaya, *Pinus* forest with various herbs, 16 Aug 1976, *Probatova & Seledets 4422a* (VLA).

*Avenula schelliana* (Hack.) Holub

$2n = 14$ , CHN. Russia, East Siberia, Yakutia, 10 km southwards of Yakutsk, Chuchur-Muran hill, *Pinus* forest with *Arctostaphylos uva-ursi*, 28 Jul 1973, *Probatova & Seledets 3824* (VLA); Russia, Far East, Amurskaya Oblast', 43 km westwards of Svobodnii town, near railway station Ledyanaya, *Pinus* forest with various herbs, 16 Aug 1976, *Probatova & Seledets 4422b* (VLA).

*Beckmannia borealis* (Tzvelev) Prob.

$2n = 14$ , CHN. Russia, East Siberia, Yakutia, 10 km southwards of Yakutsk, near Chuchur-Muran hill, sedge community, 27 Jul 1973, *Probatova & Seledets 3966* (VLA).

*Beckmannia syzigachne* (Steud.) Fernald

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, Gamov Peninsula, near Andreevka village, Rissovaya Bay, on riverbank, 19 Sep 1979, *Probatova & Rudyka 5486* (VLA).

*Bromopsis pumpelliana* (Scribn.) Holub

$2n = 28$ , CHN. Russia, Far East, Amurskaya Oblast', Selemdzha River, 122 km above the mouth of the river, near Dagmara, rocky slope, 31 Aug 1976, *Probatova & Seledets 4455* (VLA).

$2n = 56$ , CHN. Russia, Far East, Amurskaya Oblast', Mazanovskii Raion, 3 km westwards of Novokievskii Uval village, meadow at the roadside, 25 Aug 1976, *Probatova & Seledets 4448* (VLA).

*Bromus danthoniae* Trin.

$2n = 14$ , CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe village, the Yilguinly canyon, rubbly dry bed of a stream, 27 Apr 1972, *Probatova & Seledets 3474* (VLA); Turkmenistan, Kopet-Dagh, 1 km northwards of Duzly-Depe, on the edge of a vineyard, 24 May 1972, *Probatova & Seledets 3552* (VLA).

*Bromus japonicus* Thunb.

$2n = 14$ , CHN. Kazakhstan, Alma-Ata, Kok-Tyube hill, south-east slope, meadow-steppe vegetation with shrubs, 16 Jul 1978, *Probatova & Seledets 5320* (VLA); Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, the Yilguinly canyon, 27 Apr 1972, *Probatova & Seledets 3467* (VLA); Turkmenistan, Kopet-Dagh, Duzly-Depe, the Yilguinly canyon, near sheep-fold, 27 Apr 1972, *Probatova & Seledets 3468* (VLA).

*Bromus japonicus* var. *velutinus* (W.D.J. Koch) Bornm.

$2n = 14$ , CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, the Yilguinly canyon, on clay soil of a hill with desert vegetation, 26 Apr 1972, *Probatova & Seledets 3461* (VLA).

*Bromus pseudodanthoniae* Drobow

$2n = 28$ , CHN. Kazakhstan, Aksu-Dzhabagly nature reserve, Novo-Nikolaevka, on dry pebble bed of a stream, 8 Jul 1974, *Fedyeva 3959a* (VLA).

*Bromus pseudodanthoniae* var. *pubiglumis* Tzvelev

$2n = 28$ , CHN. Kazakhstan, Aksu-Dzhabagly nature reserve, Novo-Nikolaevka, on dry bed of a stream, 8 Jul 1974, *Fedyeva 3959b* (VLA).

*Bromus scoparius* L.

$2n = 14$ , CHN. Turkmenistan, 40 km westwards of Ashkhabad, near Chuly, the bank of Chulinka River, 19 Apr 1972, *Probatova & Seledets 3446* (VLA).

*Bromus squarrosus* L.

$2n = 14$ , CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, near Cholpon-Ata, sandy-clay semi-desert, 1 Aug 1978, *Probatova & Seledets 5334* (VLA).

*Calamagrostis angustifolia* Kom.

$2n = 28$ , CHN. Russia, Far East, Primorskii Krai, Khanka Lake basin, near Shirokoye Lake, close to the mouth of Ilistaya (Lefu) River, 13 Sep 1979, *Probatova & Rudyka 5482* (VLA).

*Calamagrostis brachytricha* Steud.

$2n = 42$ , CHN. Russia, Far East, Amurskaya Oblast', Svobodnenskii Raion, near Malaya Sazanka village, south-east slope, *Pinus* and *Rhododendron* community, 15 Aug 1976, *Probatova & Seledets 4418* (VLA); North Korea (DPRK), outskirts of Vonsan, *Pinus densiflora* plantations, 13 Oct 1971, *Seledets 3388* (VLA).

$2n = 49$ , CHN. Russia, Far East, Amurskaya Oblast', 43 km westwards of Svobodnii town, near railway station Ledyanaya,

*Pinus* forest with various herbs, along the forest road, 16 Aug 1976, *Probatova & Seledets 4423* (VLA).

$2n = 56$ , CHN. Russia, Far East, Amurskaya Oblast', Selemdzha River, 122 km above the mouth of the river, near Dagmara, stony southern slope, 31 Aug 1976, *Probatova & Seledets 4457* (VLA).

*Calamagrostis langsdorffii* (Link) Trin.

$2n = 56$ , CHN. Russia, Far East, Khabarovskii Krai, Amur River, 30 km downstream from Khabarovsk, near Voronezh-3 village, moist meadow, 18 Jun 1978, *Probatova & Rudyka 5033* (VLA).

*Calamagrostis meinshausenii* (Tzvelev) Vilyasov

$2n = 28$ , CHN. Russia, Leningradskaya Oblast', Roshchinskii Raion, near Ozerki village, Baltic Sea, Finskii Bay, coastal sands, 15 Jul 1976, *Probatova 4370* (VLA).

*Calamagrostis neglecta* (Ehrh.) G. Gaertn., B. Mey. et Scherb.

$2n = 28$ , CHN. Russia, Leningradskaya Oblast', Roshchinskii Raion, near Ozerki village, Baltic Sea, Finskii Bay, coastal zone, *Calamagrostis* community, 15 Jul 1976, *Probatova 4373* (VLA).

*Calamagrostis phragmitoides* C. Hartm.

$2n = 56$ , CHN. Russia, Leningradskaya Oblast', Roshchinskii Raion, near Ozerki village, *Pinus* forest, 17 Jul 1976, *Probatova 4376* (VLA).

*Catabrosa aquatica* (L.) P. Beauv.

$2n = 20$ , CHN. Russia, Caucasus, Daghestan, Buynakskii Raion, near Buglen, roadside, in ditch, 20 Jun 1979, *Probatova 5413* (VLA); Russia, Caucasus, Daghestan, Gunibskii Raion, between villages Verkhonii Gunib and Srednii Gunib, ca. 1,600 m, mountainside, along the stream, 25 Jun 1979, *Probatova 5422* (VLA); Kyrgyz Republic, 15 km northwards of Ananievo, Kungey-Alatoo Mts., Chet-Baysohorun canyon, ca. 2,000 m, coniferous belt, along the stream, 25 Jul 1978, *Probatova & Seledets 5140* (VLA); Kyrgyz Republic, Issyk-Kul' Lake northern area, 3 km from Ananievo, waterlogged beach of Issyk-Kul' Lake, 28 Jul 1978, *Probatova & Seledets 5151* (VLA); Turkmenistan, Kopet-Dagh, 15 km south-westwards of Archman village, 800 m, Nukhur River valley, meadow on the flood-plain, 29 May 1974, *Ikonnikov 5581* (VLA).

*Catabrosella araratica* (Lipsky) Tzvelev

\* $2n = 28$ , CHN. Armenia, Aragats Mt., in vicinity of Kari Lake, 3,200 m, 5 Sep 1980, *Baloyan 5883* (ERE).

*Cenchrus biflorus* Roxb.

$2n = 34-36$ , CHN. India, Radzhastkhan, outskirts of Jaypur, sandy savanna with *Acacias* and tussock grasses, 28 Oct 1977, *Probatova & Seledets 4938* (VLA).

*Chloris roxburgiana* Schult.

\*\* $2n = 40$ , CHN. India, Tamilnadu, 30 km from Madras, near Makhabalipuram, maritime plain, 24 Oct 1977, *Probatova & Seledets 4930* (VLA); Sri Lanka, Colombo, roadside, 22 Oct 1977, *Probatova & Seledets 4927* (VLA).

*Cleistogenes kitagawae* Honda

$2n = 40$ , CHN. North Korea (DPRK), Vonsan, sandy beach, 17 Oct 1971, *Seledets 3400* (VLA).

*Corynephorus canescens* (L.) P. Beauv.

$2n = 14$ , CHN. Ukraine, 50 km northwards of Kiev, vicinity of Litvinovka, 10 km from Dymmer, the edge of *Pinus* forest, on sands, 16 Aug 1978, *Probatova 5194* (VLA).

*Cynodon dactylon* (L.) Pers.

$2n = 36$ , CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, the Yilguinly canyon, along the stream, 23 Apr 1972, *Probatova & Seledets 3450* (VLA); Turkmenistan, Kopet-Dagh, Duzly-Depe, the valley of Sumbar River, left bank, the orchard, near the irrigation ditch, 23 May 1972, *Probatova & Seledets 3546* (VLA).

\* *Cynosurus turcomanicus* Proskur. (= *C. elegans* auct.)

$2n = 14$ , CHN. Turkmenistan, Kopet-Dag, the valley of Sumbar River, middle part, ca. 600 m, dry slope with melkozem, in wild *Punica* community, 19 May 1975, *Belyanina & Proskuryakova 6536* (MHA).

*Danthonia riabuschinskii* (Kom.) Kom.

$2n = 36$ , CHN. Russia, Kamchatka, Kronotskii nature reserve, flood-land of Krashennikova River, 5 km above Kronotskoe Lake, upland meadow, 3 Sep 1982, *Yakubov 6282* (VLA).

*Digitaria biformis* Willd.

$2n = 36$ , CHN. India, Tamil Nadu, 30 km of Madras, near Makhabalipuram, maritime plain, 24 Oct 1977, *Probatova & Seledets 4921* (VLA).

$2n = 72$ , CHN. India, Uttar-Pradesh, outskirts of Agra, a slope with clay soil, near the rivulet, 30 Oct 1977, *Probatova & Seledets 4924* (VLA).

*Digitaria sanguinalis* (L.) Scop.

$2n = 54$ , CHN. North Korea (DPRK), Vonsan, middle part of a slope, in *Pinus densiflora* plantation, 17 Oct 1971, *Seledets 3439* (VLA).

*Echinochloa colonum* (L.) Link

$2n = 54$ , CHN. India, Tamil Nadu, 30 km of Madras, near Makhabalipuram, maritime plain, 24 Oct 1977, *Probatova & Seledets 4923* (VLA).

*Echinochloa crusgalli* (L.) P. Beauv.

$2n = 54$ , CHN. Uzbekistan, Khorezmskaya Oblast', near Urgench, the bank of canal Shavat, 6 Oct 1979, *Probatova & Seledets 5543* (VLA).

*Echinochloa oryzoides* (Ard.) Fritsch

$2n = 54$ , CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, in vicinity of Khorol', on the railway embankment, 3 Sep 1985, *Gularyants 6641* (VLA); Uzbekistan, outskirts of Andizhan, Bol'shoi Ferganskii canal, on the margin of a field, 18 Oct 1979, *Probatova & Seledets 5601* (VLA).

*Eleusine coracana* (L.) Gaertn.

$2n = 36$ , CHN. India, Tamil-Nadu, 30 km of Madras, near Makhabalipuram, coastal plain, 24 Oct 1977, *Probatova & Seledets 4933* (VLA).

*Elymus sibiricus* L.

$2n = 28$ , CHN. Russia, Transbaikalia, Chitinskaya Oblast', vicinity of Chita, steppe community, 5 Jul 1977, *Probatova & Seledets 4700* (VLA).

*Enteropogon monostachyos* (Vahl) K. Schum. ex Engl.

2n = 20, CHN. India, Uttar-Pradesh, outskirts of Agra, a slope with clay soil, near the rivulet, 30 Oct 1977, *Probatova & Seledets 4935* (VLA).

*Festuca auriculata* Drobow

2n = 14, CHN. Russia, Far East, Khabarovskii Krai, Ayano-Mayskii Raion, in vicinity of Ayan, *Kharkevich 5237* (VLA).

*Festuca brachyphylla* Schult. & Schult. f.

2n = 42, CHN. Russia, Far East, Kamchatskaya Oblast', North Koryakiya, Penzhinskii Raion, near Manily, Kamennaya Mt. (828 m), 27 Jul 1974, *Kharkevich 3990* (VLA); Russia, Far East, Kamchatskaya Oblast', Karaginskii Island, Markelovka River basin, 31 Jul 1976, *Kharkevich & Buch 4629* (VLA).

*Glyceria leptorhiza* (Maxim.) Kom.

2n = 20, CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, Amur River, opposite Nizhnyaya Gavan' village, silt-pebble riverbank, 30 Jun 1981, *Probatova & Seledets 5945* (VLA).

*Glyceria notata* Chevall.

2n = 40, CHN. Tadjikistan, 50 km northwards of Dushanbe, Varzob River basin, Khodzha-Obi-Garm mountain ridge, the middle mountain belt, 2,000 m, on the slope, along the stream, 18 Jun 1973, *Probatova & Seledets 3729* (VLA); Tadjikistan, the Varzob River canyon, near the mouth of Maykhura River, along the riverside, 1 Jul 1973, *Probatova & Seledets 3735* (VLA); Turkmenistan, Kopet-Dagh, Duzly-Depe village, the valley of Sumbar River, near the irrigation ditch, 16 May 1972, *Probatova & Seledets 3526* (VLA).

*Glyceria spiculosa* (F. Schmidt) Roshev.

2n = 40, CHN. Russia, East Siberia, Yakutia, 10 km south-westwards of Yakutsk, nearby Chuchur-Muran hill, lakeside, 13 Aug 1973, *Probatova & Seledets 3785* (VLA); Russia, Far East, Amurskaya Oblast', near Svobodnii town, on the bank of a pond, 14 Aug 1976, *Probatova & Seledets 4413* (VLA); Russia, Far East, Primorskii Krai, Khankaiskii Raion, in vicinity of Astrakhanka, Khanka Lake, waterlogged depression on the lakeside, 8 Aug 1976, *Probatova & Seledets 4400* (VLA).

*Glyceria triflora* (Korsh.) Kom.

2n = 20, CHN. Russia, East Siberia, Yakutia, left bank of the Lena River, opposite Yakutsk, near Nizhnii Bestyakh village, flood-land, 29 Jul 1973, *Probatova 3752* (VLA).

\**Heteropogon ritchiei* (Hook. f.) Blatt. & Mc Cann

2n = 54, CHN. Sri Lanka, Colombo, on roadside, 22 Oct 1977, *Probatova & Seledets 4915* (VLA).

*Hordeum bulbosum* L.

2n = 28, CHN. Kazakhstan, Aksu-Dzhabagly nature reserve, the canyon of Dzhabagly River, stony slope, 12 Jul 1974, *Fedyeva 3987* (VLA).

*Hordeum jubatum* L.

2n = 28, CHN. Russia, East Siberia, Yakutia, 10 km south-westwards of Yakutsk, Chuchur-Muran hill, lakeside, near the road, 31 Jul 1973, *Probatova & Seledets 3828* (VLA).

*Koeleria skrjabinii* Karav. & Tzvelev

2n = 28, CHN. Russia, East Siberia, Yakutia, lower course of Lena River, mouth of Vilui River, the middle part of Khotugu-Ulakhhan tukulun, sand dunes streaming in the wind, 24 Jul 1968, *Nikolayev 5617* (LE).

*Leersia oryzoides* (L.) Sw.

2n = 48, CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, in vicinity of Khanka Lake, near Blagodatnoe, 1 Oct 1979, *Nechaev 6652* (VLA).

*Lolium rigidum* Gaudin

2n = 14, CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe village, the Yilguinly canyon, rubbly dry bed of a stream, 27 Apr 1972, *Probatova & Seledets 3470* (VLA).

*Melica transsilvanica* Schur

2n = 18, CHN. Moldavia, Kotovskii Raion, 8 km of Kotovsk town, Kotovsk-Lapushna route, oak forest on the mountainside, 16 Sep 1978, *Probatova & Seledets 5222* (VLA); Kazakhstan, Alma-Atinskaya Oblast', Toraygir Mts., northern macro-slope, a canyon, on dry bed of a stream, 10 Jul 1978, *Averyanov 5351* (VLA).

*Melica transsilvanica* var. *glabrata* Čelak. ex Lavrenko

2n = 18, CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, 15 km northwards of Ananievo, Kungey-Ataloo Mts., Chet-Baysohorun canyon, 2,200 m, coniferous (*Picea*) belt, 25 Jul 1978, *Probatova & Seledets 5312* (VLA).

*Melica uniflora* Retz.

2n = 18, CHN. Moldavia, Kotovskii Raion, Kotovsk-Lapushna route, *Quercus* and *Tilia* forest, 16 Sep 1978, *Probatova & Seledets 5220* (VLA).

*Milium effusum* L.

2n = 28, CHN. Moldavia, Kotovskii Raion, Kotovsk-Lapushna route, *Quercus*, *Fraxinus* and *Tilia* forest, 16 Sep 1978, *Probatova & Seledets 5218* (VLA); Ukraine, Transcarpathia, near Mukacheve, mountain forest, 4 Aug 1976, *Konechnaya 4543* (VLA); Ukraine, Transcarpathia, Petros Mt., Aug 1976, *Konechnaya 4546* (VLA); Ukraine, outskirts of Kiev, Pucza-Voditsa, *Pinus* forest, 10 Aug 1978, *Probatova 5278* (VLA); Kazakhstan, near Alma-Ata, Medeo, mountainside, 1,775 m, a clearing in *Picea* forest, 15 Jul 1978, *Probatova & Seledets 5105* (VLA); Russia, European part, Novgorodskaya Oblast', between railway stations Chudovo and Malaya Vishera, right bank of the Volkhov River, 2 km downstream the bridge, flood-plain forest, 3 Jul 1976, *Probatova 4353* (VLA); Russia, West Siberia, Novossibirskaya Oblast', Toguchinskii Raion, near Kotorovo, Salahir mountain range, in taiga, 29 Sep 1977, *Seledets 4833* (VLA); Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, Amur River near Mariinskoe, forest on the way to airport, 24 Jul 1982, *Shaga 6327* (VLA); Russia, Far East, Primorskii Krai, Terneyskii Raion, Sikhote-Alinskii nature reserve, near cordon "Kabani", Kabanii Stream, in forest, Sep 1979, *Probatova 5611* (VLA).

*Molinia caerulea* (L.) Moench

2n = 36, CHN. Russia, Leningradskaya Oblast', Oranienbaumskii Raion, near Glyadino, flood-plain, along the rivulet, 26 Jun 1976, *Probatova 4350* (VLA); Ukraine, outskirts of Kiev, Pucza-Voditsa, moist depression in forest, 10 Aug 1978, *Probatova 5180* (VLA).

*Muhlenbergia japonica* Steud.

$2n = 40$ , CHN. North Korea (DPRK), Vonsan, eastern slope, in *Pinus densiflora* plantations, 21 Oct 1971, *Seledets 3410* (VLA).

*Oplismenus burmannii* (Retz.) P. Beauv.

$2n = 18$ , CHN. India, Maharashtra, Elephanta Island near Bombay, stony slope, 26 Oct 1977, *Probatova & Seledets 4937* (VLA).

*Panicum bisulcatum* Thunb.

$2n = 36$ , CHN. Russia, Far East, Khabarovskii Krai, 29 km eastwards of Khabarovsk, near the railway station Khechtzir, forest road, 19 Sep 1976, *Probatova & Seledets 4916* (VLA); North Korea (DPRK), near Vonsan, western slope, middle part, in *Pinus densiflora* plantations, 18 Oct 1971, *Seledets 3434* (VLA); North Korea (DPRK), Vonsan, as a weed in the grass-plot near the inn, 18 Oct 1971, *Seledets 3384* (VLA).

*Pennisetum orientale* Rich.

$2n = 36$ , CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe village, the Yilguinly canyon, rubbly slope, 29 Apr 1972, *Probatova & Seledets 3484* (VLA); Turkmenistan, Kopet-Dagh, Duzly-Depe, 23 May 1972, *Probatova & Seledets 3548* (VLA).

*Phleum paniculatum* Huds.

$2n = 28$ , CHN. Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe village, the Yilguinly canyon, clay soil on the slope of a hill, 27 Apr 1972, *Probatova & Seledets 3465* (VLA); Turkmenistan, Kopet-Dagh, Duzhly-Depe, 2 km from the village, moist plots near the irrigation ditch, 6 May 1972, *Probatova & Seledets 3506* (VLA); Turkmenistan, Kopet-Dagh, Duzhly-Depe, left bank of Sumbar River, by the stream, 15 May 1972, *Probatova & Seledets 3520* (VLA).

*Piptatherum virescens* (Trin.) Boiss.

$2n = 24$ , CHN. Moldavia, Kotovskii Raion, Kotovsk-Lapushna route, *Quercus*, *Fraxinus* and *Tilia* forest, 16 Sep 1978, *Probatova & Seledets 5226* (VLA).

*Poa almasovii* Golub

$2n = 56$ , CHN. Russia, Far East, Magadanskaya Oblast', Sea of Okhotsk coast, in vicinity of Magadan, 4 km of Ola settlement, Niuklya, the slope of marine terrace, middle part, 18 Jul 1972, *Probatova & Seledets 3616/1, 3616/2* (VLA).

*Poa alpina* L.

$2n = 32-35$ , CHN. Russia, Caucasus, Daghestan, 16 km westwards of Buynaksk, in vicinity of Manas-Aul, Ismayil-Tau Mt., ca. 2,000 m, mountainside, 19 Jun 1979, *Probatova 5416* (VLA).

*Poa altaica* Trin.

$2n = 28$ , CHN. Kazakhstan, Alma-Atinskaya Oblast', mountains near Bayankol, the upper part of a canyon, *Picea* forest belt, 2,500–3,000 m, on the rocks, 10 Aug 1978, *Averyanov 5345* (VLA).

*Poa attenuata* Trin.

$2n = 28$ , CHN. Kazakhstan, 20 km eastwards of Kegen', Ili River basin, 2,200 m, mountain steppe, 22 Jul 1978, *Probatova & Seledets 5134* (VLA).

*Poa bucharica* Roshev.

$2n = 14$ , CHN. Tadjhikistan, Ghissarskii mountain ridge, Anzob Pass, 3,390 m, alpine meadow, 2 Jul 1973, *Probatova & Seledets 3739* (VLA).

*Poa bulbosa* L.

$2n = 28$ , CHN. Kyrgyz Republic, outskirts of Frunze [Bishkek], foothill of Kyrgyzskii Alatau, Chon-Aryk, mountain steppe, 4 Aug 1978, *Probatova & Seledets 5288* (VLA); Tadjhikistan, 50 km northwards of Dushanbe, Varzob River basin, Khodzha-Obi-Garm mountain ridge, the upper part of the broadleaved forest belt, 2,000 m, 18 Jun 1973, *Probatova & Seledets 3867* (VLA); Uzbekistan, 25 km southwards of Samarkand, Zeravshanskii mountain ridge, Kara-Tyubinskii Mts, 2 km above Verkhonii Agalyk, 900 m, 14 Oct 1979, *Probatova & Seledets 6349* (VLA).

$2n = 42$ , CHN. Ukraine, left riverside of Dnepr River, 12 km of Kiev, near the mouth of Desna River, in depressions between fixed sands, 21 Jul 1976, *Probatova 4532* (VLA); Kazakhstan, outskirts of Alma-Ata, a mountainside to Malaya Alma-Atinka River, 16 Jul 1978, *Probatova & Seledets 5249* (VLA); Kazakhstan, Alma-Ata, Kok-Tyube hill, south-east slope, meadow-steppe community with shrubs, 16 Jul 1978, *Probatova & Seledets 5276* (VLA); Tadjhikistan, Ghissarskii mountain ridge, near Iskander-Kul' Lake, 19 Sep 1973, *Yaaska 3862* (VLA); Uzbekistan, outskirts of Andizhan, Bol'shoi Ferganskii canal, on the margin of a field, 18 Oct 1979, *Probatova & Seledets 5609* (VLA).

*Poa chaixii* Vill.

$2n = 14$ , CHN. Ukraine, Transcarpathia, near Polonina Runa Mt., in forest, 1,200 m, 12 Aug 1976, *Konechnaya 4542* (VLA).

*Poa compressa* L.

$2n = 42$ , CHN. Russia, Leningradskaya Oblast', Oranienbaumskii Raion, near Glyadino, along the border of a pit, 26 Jun 1976, *Probatova 4348* (VLA); Russia, Moskovskaya Oblast', Voskressenskii Raion, near railway station Voskressensk, on the railroad embankment, 3 Sep 1978, *Probatova 5198* (VLA); Ukraine, Kirovograd'ska Oblast', Kremenchugskoe reservoir, Tsibul'nikskii Bay, vicinity of Svetlovodsk, sandy bank, 6 Sep 1978, *Probatova 5200* (VLA).

\* *Poa fragilis* Ovcz.

$2n = 42$ , CHN. Tadjhikistan, Ghissarskii mountain ridge, Anzob Pass, 3,360 m, 18 Sep 1973, *Yaaska 3859* (VLA).

*Poa malacantha* Kom.

$2n = 56$ , CHN. Russia, Far East, Kamchatskaya Oblast', Karaginskii Island, Pereval Mt., 22 Aug 1976, *Gorshkov & Kozhevnikov 4591* (VLA).

*Poa nevskii* Roshev. ex Ovcz.

$2n = ca. 42$ , CHN. Turkmenistan, Badkhyz, near cordon Kepel, hill slope with melkozem, 2 May 1976, *Bochantsev 4528* (VLA).

$2n = 42$ , CHN. Kyrgyz Republic, outskirts of Frunze [Bishkek], foothill of Kyrgyzskii Alatau, Chon-Aryk, mountain steppe, 4 Aug 1978, *Probatova & Seledets 5293* (VLA).

*Poa palustris* L.

$2n = 28$ , CHN. Russia, Far East, Amurskaya Oblast', Dzheltulakskii Raion, near Tyndinsky settlement, on border of a ravine, 12 Jun 1975, *Probatova & Rudyka 4035* (VLA).

*Poa paucispicula* Scribn. & Merr.

$2n = 42$ , CHN. Russia, Far East, Kamchatskaya Oblast', Karaghinskii Island, Vyssokaya Mt., west slope, 22 Aug 1976, Kharkevich & Buch 4593 (VLA).

*Poa pratensis* L.

$2n = 56$ , CHN. Tadzhikistan, Ghissarskii mountain ridge, near Iskander-Kul' Lake, 19 Sep 1973, Yaaska 3860 (VLA).

*Poa remota* Forselles

$2n = 14$ , CHN. Russia, Leningradskaya Oblast', Oranienbaumskii Raion, near Glyadino, flood-plain forest, 26 Jun 1976, Probatova 4351 (VLA).

*Poa reverdattoi* Roshev.

$2n = 42$ , CHN. Russia, Bashkiria, Uchalinskii Raion, Aushkul' Lake, eastern mountainous lakeside, south-west slope, stony steppe, 15 Jul 1983, Muldashev & al. 6161 (VLA).

\**Poa sabulosa* (Roshev.) Roshev.

$2n > 80$ , CHN. Russia, East Siberia, Yakutia, near Olenek, middle course of Olenek River, *Larix* forest with *Dryas*, 4 Aug 1979, Trufanova 5881 (VLA).

*Poa shumushuensis* Ohwi

$2n = 28$ , CHN. Russia, Far East, Kamchatka, Karaginskii Raion, south-westwards of Ossora, upper course of Markovka River, on the top of a mountain (to the south of the mountain 1,107 m), ca. 670 m, 6 Sep 1976, Kharkevich & Buch 4878 (VLA).

*Poa sibirica* Roshev.

$2n = 14$ , CHN. Russia, East Siberia, Yakutia, 10 km south-westwards of Yakutsk, near Chuchur-Muran Hill, valley forest, 12 Aug 1973, Probatova & Seledets 3823 (VLA); Russia, Far East, Amurskaya Oblast', Dzheltulakskii Raion, Lukinda Mt., 1,572 m, northern slope, *Pinus pumila* community, 2 Aug 1975, Man'ko & Voroshilov 4196 (VLA).

*Poa sinaica* Steud.

$2n = ca. 56$ , CHN. Turkmenistan, Kopet-Dagh, near Duzly-Depe village, a canyon on the left bank of Sumbar River, middle part, 15 May 1972, Probatova & Seledets 3523 (VLA).

*Poa skvortzovii* Prob.

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Anuchinskii Raion, near Anuchino, at the bridge of Arsenievka River, on the slope of a road, 26 May 1978, Seledets 4944 (VLA); Russia, Far East, Primorskii Krai, Khassanskii Raion, Gamov Peninsula, Astafieva Bay, *Quercus dentata* wood-meadow, stony place, 18 Aug 1974, Probatova & Seledets 4892 (VLA).

*Poa stepposa* (Krylov) Roshev.

$2n = 42$ , CHN. Russia, East Siberia, Yakutia, Zhiganskii Raion, 10 km from the mouth of Dyanyshka River (right affluent of Lena River), riverside, on the slope, 18 Jul 1976, Trufanova & Bogoradnikova 5882 (VLA).

*Poa sublanata* Reverd.

$2n = ca. 70$ , CHN. Russia, Far East, Kamchatskaya Oblast', Commander Islands, Bering Island, near Severo-Zapadnii Cape, meadow, 29 Jul 1971, Probatova & Seledets 3301 (VLA).

*Poa sylvicola* Guss.

$2n = 14$ , CHN. Turkmenistan, Kopet-Dagh, 2 km northwards of Duzhly-Depe village, Sumbar River valley, along the irrigation ditch, 6 May 1972, Probatova & Seledets 3505 (VLA).

*Poa tatewakiana* Ohwi

$2n = 42$ , CHN. Russia, Far East, Commander Islands, Arii-Kamen' Island, 30 Jul 1971, Probatova & Seledets 3314/2, 3314/5 (VLA).

\**Poa taurica* H. N. Pojark.

$2n = 56$ , CHN. Ukraine, Crimea, south coast near Yalta, above Uchan-Su waterfall, on limestone rocks with *Pinus, FAGUS* and *Cornus*, 6 Sep 1967, Tzvelyov 5584/68 (VLA, LE).

\**Poa tianschanica* (Regel) Hack. ex O. Fedtsch.

$2n = 49$ , CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, in vicinity of Cholpon-Ata, sandy-clay semi-desert, 1 Aug 1978, Probatova & Seledets 5327 (VLA).

$2n = ca. 70$ , CHN. Kazakhstan, Vostochno-Kazakhstanskaya Oblast', 17 km north-westwards of Zaissan, near Sangir, 24 Jul 1976, Kartavtseva 4936 (VLA).

*Poa trivialis* L.

$2n = 14$ , CHN. Russia, Leningradskaya Oblast', outskirts of St. Petersburg, between railway stations Pavlovsk and Novolissino, valley of Chornaya River (the affluent of Izhora River), forest path, 5 Apr 1975, Probatova 3995 (VLA).

*Poa turneri* Scribn.

\*\* $2n = 42$ , CHN. Russia, Far East, Commander Islands, Bering Island, 9 km of Nikol'skoe, Kitovii Bay, sea shore, sand dunes, 29 Jul 1971, Probatova & Seledets 3312 (VLA).

*Poa ursulensis* Trin.

$2n = 42$ , CHN. Uzbekistan, 56 km from Fergana, 6 km above Khamzahabad, on the rocks nearby Goluboe Lake, 1,600 m, 21 Oct 1979, Probatova & Seledets 5546 (VLA).

*Polypogon monspeliensis* (L.) Desf.

$2n = 28$ , CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, 10 km eastwards of Cholpon-Ata, lakeside, on moist sand, 2 Aug 1978, Probatova & Seledets 5171 (VLA).

*Puccinellia distans* (Jacq.) Parl.

$2n = 42$ , CHN. Russia, Leningradskaya Oblast', Lomonosovskii Raion, near Ropsha, on roadside, 26 Jun 1976, Probatova 4343 (VLA).

*Puccinellia kurilensis* (Takeda) Honda

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Shkotovskii Raion, outskirts of Shkotovo, riverside of the affluent of Tsimukhe River, 25 Sep 1979, Probatova & Seledets 5495 (VLA).

*Rostraria cristata* (L.) Tzvelev

$2n = 26$ , CHN. Russia, Caucasus, Daghestan, outskirts of Derbent, mountainside near Naryn-Kala, 29 Jun 1979, Probatova 5597 (VLA).

*Sesleria caerulea* (L.) Ard.

$2n = 28$ , CHN. Russia, Leningradskaya Oblast', Gatchin-



skii Raion, 1.5 km westwards of the railway station Elizavetino, forest edge, 6 Jun 1976, *Probatova* 4337 (VLA).

*Setaria barbata* (Lam.) Kunth

2n = 36, CHN. India, New Delhi, near the [former] Soviet Embassy, roadside, 2 Nov 1977, *Probatova* & *Seledets* 4922 (VLA).

*Setaria pycnocomma* (Steud.) Henr. ex Nakai

2n = 18, CHN. Kazakhstan (east area), outskirts of Zaisan, along the rivulet, 15 Jul 1976, *Kartavtseva* 4902 (VLA).

*Sphenopus divaricatus* (Gouan) Rchb.

2n = 24, CHN. Turkmenistan, Chardzhouskaya Oblast', 20 km north-eastwards of Gaurdan, near saline rivulet, 18 Apr 1978, *Litvinova* 5583 (VLA).

*Spodiopogon sibiricus* Trin.

2n = ca. 40, CHN. North Korea (DPRK), Vonsan, middle part of a slope, in *Pinus densiflora* plantations, 17 Oct 1971, *Seledets* 3426 (VLA).

2n = 40, CHN. North Korea (DPRK), Kymgansan Mts., Samyl'po Lake, on the rocks, 19 Oct 1971, *Seledets* 3433 (VLA).

*Sporobolus piliferus* (Trin.) Kunth

2n = 40, CHN. North Korea (DPRK), Kymgansan Mts., Samyl'po Lake, on the scree, 19 Oct 1971, *Seledets* 3393 (VLA).

*Stipa caucasica* Schmalh.

2n = 44, CHN. Russia, Caucasus, Daghestan, Gunibskii Raion, near Verkhonii Gunib, Khotochinskii mountain ridge, ca. 2,000 m, dry mountainside, 26 Jun 1979, *Probatova* 5423 (VLA).

*Taeniatherum crinitum* (Schreb.) Nevski

2n = 14, CHN. Kazakhstan, Aksu-Dzhabagly nature reserve, in vicinity of Novo-Nikolaevka, submontane plain, 8 Jul 1974, *Fedyaeva* 3978 (VLA); Kazakhstan, Alma-Ata, Kok-Tyube hill, south-east slope, meadow-steppe vegetation with shrubs, 16 Jul 1978, *Probatova* & *Seledets* 5251 (VLA); Kyrgyz Republic, 5 km of Issyk-Kul' Lake, Dzhanly-Alysh, clay desert, 2 Aug 1978, *Probatova* & *Seledets* 5247 (VLA); Turkmenistan, Kopet-Dagh, 2 km northwards of Duzly-Depe village, 28 Apr 1972, *Probatova* & *Seledets* 3477 (VLA); Turkmenistan, Kopet-Dagh, 8 km northwards of Duzly-Depe, Yilguinly canyon, 29 Apr 1972, *Probatova* & *Seledets* 3482 (VLA).

*Trachynia distachya* (L.) Link

2n = 10, CHN. Turkmenistan, Kopet-Dagh, the valley of Sumbar River, 29 km upwards from Kara-Kala, stony slope with melkozem, 450 m, ephemeral community with *Artemisia* spp., 8 Jun 1974, *Ikonnikov* 5556 (VLA).

*Trisetum agrostideum* (Laest.) Fr.

2n = 28, CHN. Russia, Far East, Khabarovskii Krai, Verkhne-Bureynskii Raion, 30 km north-eastwards of Sofisk settlement, the upper course of Shirotinii stream (Olga River basin), 1,400 m, at foot of a slope, 26 Aug 1978, *Nechaev* 5300 (VLA); Russia, Far East, Khabarovskii Krai, Ayano-Mayskii Raion, Dzhugdzhur mountain ridge, Lantar' River basin, Mamaev Spring, limestone rocks in subalpine belt, near the rivulet, 24 Jul 1979, *Kharkevich* 6322 (VLA).

*Trisetum alpestre* (Host) P. Beauv.

2n = 14, CHN. Poland, Tatra Mts., Olczyska valley, on the calcareous rocks, 15 Sep 1979, *Mirek* 5580 (VLA).

*Trisetum parvispiculatum* (Tzvelev) Prob.

2n = 12, CHN. Russia, Daghestan, outskirts of Derbent, mountain slope near Naryn-Kala, 29 Jun 1979, *Probatova* 5598 (VLA).

*Trisetum sibiricum* Rupr.

2n = 14, CHN. Russia, Far East, Kamchatka, 80 km eastwards of Apacha, Malkinskii mountain ridge, on the slope, 15 Aug 1978, *Kozhevnikov* 5262 (VLA).

*Zoysia japonica* Steud.

2n = 40, CHN. North Korea (DPRK), Vonsan, lawn near the inn, 15 Oct 1971, *Seledets* 3407 (VLA); North Korea (DPRK), Vonsan, tourist inn, grass-plot, 21 Oct 1971, *Seledets* 3418 (VLA).

**POLYGONACEAE**

*Polygonum rigidum* Skvortsov

2n = 40, CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, near the railway station Khorol', waste ground, 2 Oct 1985, *Gulariants* 6673 (VLA).

**PRIMULACEAE**

*Androsace septentrionalis* L.

2n = 20, CHN. Russia, Far East, Magadanskaya Oblast', Yana River, 1982, *Pavlova* 6246 (VLA).

*Naumburgia thyrsoiflora* (L.) Rchb.

2n = ca. 40, CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, Udyl' Lake, south-east lakeside, 8 km from Ukhta channel, low silt bank of Karassevii Bay, 25 Jun 1981, *Probatova* & *Seledets* 5908 (VLA).

2n = 40, CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, near Mariinskoe, Novitskoe Lake, silt lakeside, 21 Jun 1978, *Probatova* & *Rudyka* 5041 (VLA).

*Primula cuneifolia* Ledeb.

2n = 22, CHN. Russia, Far East, Kamchatka, at the bottom of Avachinsky Volcano, ca. 900 m, 4 Aug 1982, *Probatova* & *Rudyka* 6067 (VLA).

*Primula farinosa* L.

2n = 18, CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, in vicinity of Dal'negorsk, Partizanskaya Pad', Mramornii Spring, near the rivulet, in *Betula ovalifolia* community, 14 Sep 1985, *Probatova* & *Seledets* 6567 (VLA).

*Trientalis europaea* L.

2n > 100, CHN. Russia, Far East, Amurskaya Oblast', Dzheltulakskii Raion, 35 km of Tyndinskii settlement to BAM railway station, flood-plain of Tynda River, 14 Jun 1975, *Rudyka* 4258 (VLA).

**RANUNCULACEAE**

*Halerpestes sarmentosa* (Adams) Kom.

2n = 16, CHN. Kyrgyz Republic, Issyk-Kul' Lake northern area, 3 km westwards of Ananievo, waterlogged beach of Issyk-Kul' Lake, 28 Jul 1978, *Probatova* & *Seledets* 5154 (VLA).

*Ranunculus gmelinii* DC.

$2n = 16$ , CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, near Mariinskoe, Novitskoye Lake, silt lake-side, 20 Jun 1978, *Probatova & Rudyka 5038* (VLA).

*Thalictrum contortum* L.

$2n = 14$ , CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, near Solontsy village, in shrub community, 1 Jul 1978, *Probatova & Rudyka 5091* (VLA).

*Thalictrum sparsiflorum* Turcz. ex Fisch. et C.A. Mey.

$2n = 14$ , CHN. Russia, Far East, Amurskaya Oblast', 70 km from Tynda to BAM railway stations, riverbank of Marsheghiry River (the affluent of Tynda River), 26 Jun 1975, *Rudyka 4257* (VLA).

**RESEDACEAE***Reseda lutea* L.

$2n = 48$ , CHN. Russia, Caucasus, Daghستان, outskirts of Derbent, Dzhalgansky mountain ridge, near Naryn-Kala, in shrubs community, 14 Jul 1975, *Probatova & Seledets 4335* (VLA).

**ROSACEAE***Dasiphora fruticosa* (L.) Rydb.

$2n = 14$ , CHN. Russia, Far East, Amurskaya Oblast', near Tyndinskii settlement, pebble bank of Tynda River (Zeya River basin), 7 Jun 1975, *Probatova & Rudyka 4014* (VLA).

*Geum aleppicum* Jacq.

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, near Krasnorechensk, roadside, 19 Jul 1984, *Probatova & Seledets 6406* (VLA); Russia, Far East, Primorskii Krai, Khorol'skii Raion, near Novo-Bel'manovka, meadow, 11 Aug 1980, *Probatova 5783* (VLA).

*Sorbus amurensis* Koehne

$2n = 34$ , CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, 5 km above Bogorodskoe, pebble bank of Amur River, forest edge, 2 Jul 1981, *Probatova & Seledets 5966* (VLA).

*Sorbaria sorbifolia* (L.) A. Braun

$2n = \text{ca. } 36$ , CHN. Russia, Far East, Khabarovskii Krai, Ul'chskii Raion, 5 km above Bogorodskoe, the bank of Amur R., forest edge, 2 Jul 1981, *Probatova & Seledets 5967* (VLA).

**RUBIACEAE***Galium trifidum* L.

$2n = \text{ca. } 24$ , CHN. Russia, Far East, Khabarovskii Krai, Verkhne-Bureynskii Raion, near Chegdomyn settlement, on the edge of *Larix* and *Betula* forest, 16 Sep 1976, *Probatova & Seledets 4599* (VLA).

**RUTACEAE***Dictamnus dasycarpus* Turcz.

$2n = \text{ca. } 36$ , CHN. Russia, Far East, Primorskii Krai, Khankayskii Raion, near Novosselishche village, forest, 19 Jul 1976, *Rudyka 4667* (VLA).

**SAXIFRAGACEAE***Chrysosplenium flagelliferum* F. Schmidt

$2n = 24$ , CHN. Russia, Far East, Khassanskii Raion, 40 km westwards of Razdol'noye, near Kravtsovka, a canyon of

Kravtsovka River (Razdol'naya River basin), at the waterfall, 3 May 1980, *Probatova & Seledets 5696* (VLA).

**THYMELAEACEAE***Diarthron vesiculosum* (Fisch. & C.A. Mey. ex Kar. & Kir.) C.A. Mey.

$2n = 18-20$ , CHN. Kazakhstan, Suzakskii Raion, 10 km from Dzhan-Tyube village, 8 Jul 1981, *Bikulova 6318* (VLA).

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\* First chromosome count for the species.

\*\* New chromosome number (cytotype) for the species.

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**ALISMATACEAE***Sagittaria trifolia* L.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, vicinity of Ussuriisk, Dubovyi Klyuch, recreation zone "Priroda", lakeside, 19 Aug 2001, *Rudyka 8719* (VLA).

**ALLIACEAE***Allium condensatum* Turcz.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Klykova Island, maritime slope, on slide-rocks, 18 Jun 2001, *Prozorova 8485* (VLA).

*Allium macrostemon* Bunge

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, Troitsa Gulf, near Andreevka, sea coast, 15 Oct 2004, *Chepinoga & Shatokhina 9560* (VLA); Russia, Far East, Primorskii Krai, Vostok Bay, sea coast, *Rosa rugosa* community, 25 Sep 2004, *Nechaev 9628* (VLA).

*Allium spirale* Willd. & Schldl.

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Partizanskii Raion, near Anna Bay, 1 km towards Yuzhno-Morskoi, sea shore, coastal rocks, 22 Aug 1997, *Probatova & Seledets 7332* (VLA).

**APIACEAE***Bowlesia incana* Ruiz & Pav.

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Vladivostok, Akademgorodok, a rare weed in the greenhouse of the Institute of Biology & Soil Science FEB RAS, 2007, *Probatova 10888* (VLA).

*Bupleurum longiradiatum* Turcz.

$2n = 12$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, *Quercus mongolica* forest, 19 Sep 1997, *Probatova & Seledets 7411* (VLA).

*Oenanthe javanica* (Blume) DC.

$2n = 44$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Sadgorod, near the sanatorium "Sadgorod", waterlogged depression in the forest, 26 Sep 2000, *Probatova 8365* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Reineke Island, moist depression near the settlement, 2 Oct 2001, *Probatova & Seledets 8631* (VLA).

*Torilis japonica* (Houtt.) DC.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, near Podnozhie, bottom of the hill, 24 Sep 1999, *Probatova & Seledets 8104* (VLA).

**ARACEAE***Arisaema amurense* Maxim.

$2n = 56$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve Kedrovaya Pad', broadleaved forest, near the excursion centre, 14 May 2007, *Shibneva 10552* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, in vicinity of Podnozhie, 500 m to Shigino, cutting in the forest, near the rivulet, 28 May 2007, *Rudyka 10579* (VLA).

*Colocasia esculenta* Schott

$2n = 28$ , CHN. Japan, 60 km north-westwards of Tokyo, vicinity of Khigashimatsuyama town, the valley of Arakawa River, plantations, 2 Nov 2004, *Markevich 10062* (VLA).

\**Symplocarpus egorovii* N.S. Pavlova & V. Neczaev

$2n = 30$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Bogataya Griva mountain ridge, mountainside, in forest, 24 May 2006, *Nechaev 10153* (VLA).

*Symplocarpus renifolius* Schott ex Tzvelev

$2n = 54$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, upper course of Malaya Sedanka River, valley forest, 28 May 2006, *Pavlova 10185* (VLA).

**ASCLEPIADACEAE***Metaplexis japonica* (Thunb.) Makino

$2n = 24$ , CHN. Russia, Far East, Khabarovskii Krai, Amur River opposite Khabarovsk, near Pokrovka, on railbed slope, 15 Jul 2005, *Tsyrenova 9863* (VLA).

*Vincetoxicum acuminatum* Decne.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Spasskii Raion, near Nikitovka village, close to the former settlement Ruslanovka, forest edge, 13 Jun 1976, *Kostin 8994* (VLA).

**ASTERACEAE***Adenocaulon adhaerescens* Maxim.

$2n = 46$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km westwards of Ekipazhnaya, stony slope covered with forest, in a scour, 17 Oct 1998, *Probatova & Seledets 7779* (VLA).

*Arctanthemum arcticum* (L.) Tzvelev

$2n = 18$ , CHN. Russia, Far East, Kamchatskaya Oblast', Commander Islands, Bering Island, near Nikol'skoe, coastal sands, 16 Aug 2003, *Yakubov 9137* (VLA).

*Arnica lessingii* Greene

$2n = 76$ , CHN. Russia, Far East, Kamchatka, Bystrinskii Raion, Sredinnyi mountain ridge, eastwards of Esso, 1,000 m,

mountainside, tundra-meadow community, 30 Aug 2000, *Yakubov 8443* (VLA).

*Artemisia annua* L.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Vladivostok, roadside near the park, Jun 1999, *Probatova & Seledets 7834* (VLA).

*Artemisia littoricola* Kitam.

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Malyi Island, sea shore, 3 Jul 2007, *Seledets 10744* (VLA).

*Artemisia stolonifera* (Maxim.) Kom.

$2n = 36$ , CHN. Russia, Far East, Amurskaya Oblast', northwards of Blagoveshchensk, the nature protected area Mukhinka, mountainside, *Pinus* and *Quercus* forest, 30 Sep 2007, *Probatova & Seledets 10702* (VLA).

*Aster ageratoides* Turcz.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km westwards of Ekipazhnaya, stony slope covered with forest, in a scour, 17 Oct 1998, *Probatova & Seledets 7756* (VLA).

*Aster alpinus* L.

$2n = 18$ , CHN. Russia, Far East, Kamchatka, Bystrinskii Raion, 7 km southwards of Esso, the valley of Bystraya River, stony slope, near the rocks, 31 Aug 2000, *Yakubov 8444* (VLA).

*Aster maackii* Regel

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, between Voevoda and Boyarin bays, forest edge, 24 Sep 1999, *Probatova & Seledets 8111* (VLA).

*Centipeda minima* (L.) A. Braun & Asch.

$2n = 20$ , CHN. Russia, Far East, Khabarovskii Krai, Amur River basin, Kaltekheven Lake, Cape Dun'kin, sandbar, close to waters' edge, 7 Aug 1997, *Kryukova 7589* (VLA).

*Conyza canadensis* (L.) Cronquist

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Popova Island, near Stark, waste place, 12 Sep 1997, *Probatova & Seledets 7593* (VLA).

*Crepis chrysantha* (Ledeb.) Turcz.

$2n = 8$ , CHN. Russia, Far East, Kamchatka, central part, southern slope of the Ostrii Tolbachik Volcano, ca. 1,200 m, mountain tundra, 23 Aug 2000, *Yakubov 8445* (VLA); Russia, Far East, Kamchatka, Ust'-Bol'sheretskii Raion, Kikhchik River basin, western shoots of Sredinnyi mountain ridge, near Aopcha Mt., 700 m, stony ericaceous tundra, 10 Aug 2001, *Yakubov 8740* (VLA).

*Crepis tectorum* L.

$2n = 8$ , CHN. Russia, Far East, Magadanskaya Oblast', Ten'kinskii Raion, Kulu settlement, on waste ground, 21 Aug 1993, *Probatova & Seledets 7184* (VLA).

*Chrysanthemum zawadskii* Herbich (*Dendranthema zawadskii* (Herbich) Tzvelev).

$2n = 72$ , CHN. Russia, East Siberia, Irkutskaya Oblast', lakeside of Baikal Lake, 17 km north-eastwards of Listvyanka,

near Bol'shie Koty village, a slope near Biological station, *Pinus* and *Larix* forest, 13 Sep 2007, *Probatova & Seledets 10739* (VLA).

*Hieracium umbellatum* L.

$2n = 27$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime slope with shrubs, 19 Sep 1997, *Probatova & Seledets 7424* (VLA).

*Inula japonica* Thunb.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Popova Island, near Stark, 12 Sep 1997, *Probatova & Seledets 7606* (VLA).

*Kalimeris incisa* (Fisch.) DC.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, forest clearing in central part of the island, 19 Sep 1997, *Probatova & Seledets 7527* (VLA).

*Leontodon autumnalis* L.

$2n = 12$ , CHN. Russia, Far East, Kamchatka, Petropavlovsk-Kamchatskii city, ruderal place, 1996, *Imazu 7281* (VLA).

*Ligularia fischeri* (Ledeb.) Turcz.

$2n = 60$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, near the mouth of Kedrovaya River, broadleaved forest edge, 6 Sep 2003, *Yakubov 9145* (VLA).

*Paraixeris denticulata* (Houtt.) Nakai

$2n = 10$ , CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, 4 km southwards of Yaroslavskii settlement, broadleaved forest, 17 Sep 1999, *Lapenko 8071* (VLA).

*Picris kamtschatica* Ledeb.

$2n = 10$ , CHN. Russia, Far East, Kamchatka, Elizovskii Raion, Nachiki village, flood-plain forest along Plotnikova River, at the road, 21 Aug 2000, *Yakubov 8446* (VLA).

*Saussurea neopulchella* Lipsch.

$2n = 26$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime slope with shrubs, 19 Sep 1997, *Probatova & Seledets 7558* (VLA).

*Saussurea pseudotilesii* Lipsch.

$2n = 26$ , CHN. Russia, Far East, Kamchatka, south-east part, Mutnovskii Volcano, near geothermal station, subalpine belt, meadow, 2 Sep 2000, *Yakubov 8448* (VLA).

*Senecio cannabifolius* Less.

$2n = 40$ , CHN. Russia, Far East, Kamchatka, Elizovskii Raion, near Nachiki village, flood-plain forest along Plotnikova River, at the road, 21 Aug 2000, *Yakubov 8422* (VLA).

*Solidago canadensis* L.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Nadezhdinskii Raion, vicinity of the railway station Kiparissovo, near Tazhnoe settlement, country area, waste ground, 30 Sep 2006, *Probatova & Seledets 10476* (VLA).

*Solidago gigantea* Ait.

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Nadezhdinskii Raion, vicinity of the railway station Kiparissovo, near Tazhnoe settlement, country place, roadside near summerhouses, 27 Sep 2006, *Rudyka 10521* (VLA).

\**Tephroseris kirilowii* (Turcz. ex DC.) Holub

$2n = 48$ , CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, 2 km south-westwards of Novo-Shakhtinsk, nursery forest area, *Salix* community, 10 Jun 1997, *Lapenko 7303* (VLA).

*Tragopogon orientalis* L.

$2n = 12$ , CHN. Russia, Far East, Khabarovskii Krai, Komsomol'sk-on-Amur city, ruderal area, 1998, *Babkina 7790* (VLA).

*Tripleurospermum subpolare* Pobed.

$2n = 36$ , CHN. Russia, Far East, Magadanskaya Oblast', Ol'skii Raion, 5 km from Ola towards Magadan, the slope of marine terrace, 25 Aug 1993, *Probatova & Seledets 7063* (VLA).

**BALSAMINACEAE**

*Impatiens glandulifera* Royle

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, at the path in the oak forest, near the berth, 19 Sep 1997, *Probatova & Seledets 7566* (VLA).

**BERBERIDACEAE**

*Berberis sphaerocarpa* Kar. & Kir.

$2n = 28$ , CHN. Kazakhstan, Zailiiskii Alatau, 1987, *Dzhakopova 6881* (VLA).

**BETULACEAE**

*Carpinus cordata* Blume

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km eastwards of the inner part of Rynda Bay, valley forest (*Juglans* and *Alnus*), 17 Oct 1998, *Probatova & Seledets 7778* (VLA).

**BORAGINACEAE**

*Echium vulgare* L.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Shkotovskii Raion, Anissimovka, 11 Aug 2005, *Pavlova 10450* (VLA).

**BRASSICACEAE**

*Alliaria petiolata* (M. Bieb.) Cavara & Grande

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Okeanskaya, the Botanical Garden, a rare weed on roadside, behind the main building, Oct 1998, *Probatova & Seledets 7739* (VLA).

*Arabis turczaninowii* Ledeb.

$2n = 14$ , CHN. Russia, Far East, Magadanskaya Oblast', Ten'kinskii Raion, the Ten'kinskaya route, 340-th km, experimental area "Contact", on the scree, 21 Aug 1993, *Probatova & Seledets 7158* (VLA).

*Barbarea orthoceras* Ledeb.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km westwards of Ekipazhnaya, stony slope covered with forest, in a scour, 17 Oct 1998, *Probatova & Seledets 7796* (VLA).

*Berteroa incana* (L.) DC.

$2n = 16$ , CHN. Russia, East Siberia, Transbaikalia, Buryatiya, Selenginskii Raion, close to Yagodnoye village, meadow-steppe vegetation, 11 Sep 2004, *Probatova & Seledets 10483* (VLA).

*Bunias orientalis* L.

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, Boyarin Bay, northern cape, marine terrace, meadow with shrubs, roadside, 24 Sep 1999, *Probatova & Seledets* 7993 (VLA).

*Cardamine leucantha* (Tausch) O.E. Schulz

$2n = 16$ , CHN. Russia, Far East, Khabarovskii Krai, Komsomol'sk-on-Amur city, Silinsky nature forest park, Jun 2002, *Babkina* 8801 (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km eastwards of the inner part of Rynda Bay, valley forest (*Juglans* and *Alnus*), 17 Oct 1998, *Probatova & Seledets* 7757 (VLA).

*Cardamine manshurica* (Kom.) Nakai

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, Paris Bay, nature monument "Lake Dimeria", lakeside, 17 Oct 1998, *Probatova & Seledets* 7758 (VLA).

*Cardaminopsis gemmifera* (Matsum.) Berkut.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km south-eastwards of Glavnaya Mt., *Fraxinus* forest, along the stream, 17 Oct 1998, *Probatova & Seledets* 7725 (VLA).

*Isatis japonica* Miq.

$2n = 28$ , CHN. Russia, Far East, Khabarovskii Krai, Amur River basin, Bolon' Lake, lakeside, 1997, *Kryukova* 7822 (VLA).

*Parrya nudicaulis* (L.) Regel

$2n = 14$ , CHN. Russia, Far East, Kamchatka, Ust'-Kamchatskii Raion, Tolbachik Volcano, mountain tundra, 30 Jul 2003, *Yakubov* 9689 (VLA).

*Sisymbrium luteum* (Maxim.) O.E. Schulz

$2n = 28$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime slope with shrubs, 19 Sep 1997, *Probatova & Seledets* 7529 (VLA).

**CAMPANULACEAE***Platycodon grandiflorus* (Jacq.) A. DC.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, near Barabash village, stony slope, 19 Oct 2003, *Yakubov* 9627 (VLA).

**CAPRIFOLIACEAE***Lonicera maackii* (Rupr.) Herder

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km eastwards of the inner part of Rynda Bay, valley forest (*Juglans* and *Alnus*), 17 Oct 1998, *Probatova & Seledets* 7777 (VLA).

**CARYOPHYLLACEAE***Cucubalus japonicus* (Miq.) Vorosch.

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Reineke Island, Sep 2001, *Rykunov* 8785 (VLA).

*Gypsophila pacifica* Kom.

$2n = 34$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime stony slope, 19 Sep 1997, *Probatova & Seledets* 7564 (VLA).

*Lychnis fulgens* Fisch. ex Curt.

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, Far East Marine nature reserve, Spassenya Bay, Sep 1997, *Voronkova* 7753 (VLA).

*Sagina maxima* A. Gray

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, Boyarin Bay, sea shore, 24 Sep 1999, *Probatova & Seledets* 7991 (VLA).

**CHENOPODIACEAE***Kochia scoparia* (L.) Schrad.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, Dal'negorsk, waste place near a factory, 13 Sep 1985, *Probatova & Seledets* 6661 (VLA).

**COMMELINACEAE***Commelina communis* L.

$2n = 48$ , CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, Novo-Shakhtinsk settlement, waste place, 22 Jul 2007, *Lapenko* 10650 (VLA).

**CONVALLARIACEAE***Convallaria keiskei* Miq.

$2n = 38$ , CHN. Russia, Far East, Evreiskaya Avtonomnaya Oblast', Obluchenskii Raion, vicinity of Birakan settlement, near the route Khabarovsk–Obluchie, in forest, 29 Jun 1979, *Kostin* 8995 (VLA).

*Maianthemum dilatatum* (Alph. Wood) A. Nelson & J.F. Macbr.

$2n = 54$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, in vicinity of Podnozhie, Shigino, in the forest, 20 Jul 1995, *Rudyka* 7196 (VLA).

*Polygonatum involucreatum* (Franch. & Sav.) Maxim.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, outskirts of Vladivostok, Akademgorodok, forest on the slope, 21 May 2007, *Volynets* 10563 (VLA).

*Polygonatum odoratum* (Mill.) Druce

$2n = 20$ , CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, 140 km of the route Vladivostok–Khabarovsk, in vicinity of Ossinovka village, *Betula* and *Malus* community, 20 Aug 1996, *Rudyka* 7451 (VLA).

**CRASSULACEAE***Aizopsis selskiana* (Regel & Maack) Grulich (= *Sedum selskianum* Regel & Maack)

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Ussuriiskii Raion, near Korfovka, dry slope, 11 Jun 2004, *Pavlova* 9267 (VLA).

*Hylotelephium triphyllum* (Haw.) Holub (*Sedum pureum* (L.) Schult.)

$2n = 24$ , CHN. Russia, Far East, Kamchatka, central part, Bystrinskii Raion, vicinity of Esso, southern slope, meadow in the forest belt, 6 Sep 2004, *Yakubov* 9679 (VLA).

*Rhodiola integrifolia* Rafin.

$2n = 22$ , CHN. Russia, Far East, Kamchatka, Bystrinskii Raion, Sredinnyi mountain ridge, eastwards of Esso, 1,000 m, subalpine belt, nival meadow, 30 Aug 2000, *Yakubov* 8487 (VLA).

*Rhodiola rosea* L.

$2n = 22$ , CHN. Russia, Far East, Kamchatka, Ostrii Tolbachik Volcano, southern mountainside, the bank of Vodopadnyi stream, stony slope, 26 Aug 2000, *Yakubov 8488* (VLA).

**CUPRESSACEAE***Microbiota decussata* Kom.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Shkotovskii Raion, Livadiiskii mountain ridge, Pidan Mt., near upper mountain belt, 24 Jun 2006, *Gnutikov 10295* (VLA).

**CYPERACEAE***Fimbristylis ochotensis* (Meinsh.) Kom.

$2n = 20$ , CHN. Russia, Far East, Kamchatka, Ust'-Kamchatskii Raion, Verkhne-Kireunskie hot springs, thermal plots, 15 Sep 1989, *Chernyagina 8433* (VLA).

**ERICACEAE***Rhododendron aureum* Georgi

$2n = 26$ , CHN. Russia, Far East, Kamchatka, central part, Ploskaya Mt., 1,400 m, mountain tundra, 1 Sep 2004, *Yakubov 9708* (VLA).

*Rhododendron schlippenbachii* Maxim.

$2n = 26$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve Kedrovaya Pad', 25 Oct 2007, *Korkishko 10829* (VLA).

*Rhododendron sichotense* Pojark.

$2n = 26$ , CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, on the slope near Dal'negorsk, 5 Mar 2002, *Gulariants 8769* (VLA).

**EUPHORBIACEAE***Acalypha australis* L.

$2n = 40$ , CHN. Russia, Far East, Amurskaya Oblast', 40 km northwards of Blagoveshchensk, the nature protected area Mukhinka, tourist centre "Mukhinka", as a weed in the flowerbed, 4 Oct 2007, *Probatova & Seledets 10919* (VLA).

**FABACEAE***Amphicarpea japonica* (Oliv.) B. Fedtsch.

$2n = 20$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, near Cape Larionova, in forest, 19 Sep 1997, *Probatova & Seledets 7573* (VLA).

*Gueldenstaedtia verna* (Georgi) Boriss.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Oktyabr'skii Raion, near Alexee-Nikol'skoe village, May 2006, *Pavlova 10144* (VLA).

*Oxytropis chankaensis* Jurtz.

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Khankaiskii Raion, near Novo-Nikolaevka, lakeside of Khanka Lake, Przheval'skii sand spit, opposite Sosnovyi Island, 26 Jul 1997, *Kholina 10590* (VLA).

*Podocarpium mandshuricum* (Maxim.) Czerep.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Popova Island, Stark Strait, oak forest on the slope, 12 Sep 1997, *Probatova & Seledets 7386* (VLA).

*Scorpiurus muricatus* L. (*S. subvillosus* L.)

$2n = 28$ , CHN. Russia, Caucasus, Krasnodarskii Krai, vi-

cinity of Sochi, between railway stations Dagomys and Loo, near Uch-Dere village, railroad embankment, 30 Jun 2001, *Ivanenko 8525* (VLA).

*Sophora flavescens* Sol.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, Gamov Peninsula, 1998, *Prilutsky 7752* (VLA).

*Trifolium pacificum* Bobrov

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Terneiskii Raion, Svetlaya Bay, rocky slope of marine terrace, 25 Sep 1998, *Man'ko 7772* (VLA); Russia, Far East, Primorskii Krai, Partizanskii Raion, near Anna Bay, 1 km towards Yuzhno-Morskoi, sea shore, coastal sands, 22 Aug 1997, *Probatova & Seledets 7341* (VLA).

*Vicia cracca* L.

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime slope with shrubs, 19 Sep 1997, *Probatova & Seledets 7575* (VLA).

*Vicia subrotunda* (Maxim.) Czefr.

$2n = 12$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve Kedrovaya Pad', 25 Oct 2007, *Korkishko 10831* (VLA).

**HYDRANGEACEAE***Philadelphus tenuifolius* Rupr. & Maxim.

$2n = 26$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 3 km westwards of Ekipazhnaya, stony slope covered with forest, in a scour, 17 Oct 1998, *Probatova & Seledets 7794* (VLA).

**IRIDACEAE***Sisyrinchium septentrionale* E.P. Bicknell

$2n = 64$ , CHN. Russia, Far East, Primorskii Krai, Vladivostok, Kariernaya Str., Jun 2007, *Kapustina 10628* (VLA).

**LAMIACEAE***Clinopodium chinense* (Benth.) O. Kuntze

$2n = 20$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, in forest, 19 Sep 1997, *Probatova & Seledets 7439* (VLA); Russia, Far East, Primorskii Krai, Partizanskii Raion, 15 km south-westwards of Partizansk, the foot of Chandalez mountain ridge, forest edge, at the road, 23 Sep 1991, *Yakubov 7171* (VLA).

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Vostok Bay, near the Marine experimental station "Vostok", forest edge, 3 Sep 1997, *Probatova & Seledets 7362* (VLA).

*Dracocephalum thymiflorum* L.

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, Novo-Shakhtinsk, on the railroad embankment, 2 Jul 1998, *Lapenko 7737* (VLA).

*Lycopus maaekianus* (Maxim.) Makino

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, vicinity of Dushkino, near the route Dushkino-Livadiya, meadow-bog on the lakeside, 22 Aug 1997, *Probatova & Seledets 7691* (VLA).

*Lycopus uniflorus* Michx.

$2n = 22$ , CHN. Russia, Far East, Primorskii Krai, Nadezh-

dinskii Raion, 7 km of Kiparissovo, vicinity of Tazhnoe, country area, forest edge, Sep 2006, *Probatova & Seledets 10519* (VLA).

*Mosla dianthera* (Roxb.) Maxim.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Popova Island, near Stark, moist depression in forest, 12 Sep 1997, *Probatova & Seledets 7572* (VLA).

*Scutellaria strigillosa* Hemsl.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Klykova Island, sea shore, 3 Jul 2007, *Seledets 10621* (VLA).

#### LILIACEAE

*Lilium cernuum* Kom.

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 24 Sep 1999, *Urussov 8014* (VLA).

*Lilium pensylvanicum* Ker-Gawl.

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve Kedrovaya Pad', 25 Oct 2007, *Korkishko 10848* (VLA).

#### MENISPERMACEAE

*Menispermum dauricum* DC.

$2n = 52$ , CHN. Russia, Far East, Amurskaya Oblast', northwards of Blagoveshchensk, 2 km of nature protected area Mukhinka, riverside of Zeya River, meadow with shrubs, 29 Sep 2007, *Probatova & Seledets 10770* (VLA).

#### ORCHIDACEAE

*Liparis nervosa* (Thunb.) Lindl.

$2n = 42$ , CHN. Vietnam, Prov. Quang Ninh, island Thanh Lan, 15 Oct 1990, *Kudryavtseva & Ogureyeva 7576* (VLA).

*Tulotis ussuriensis* (Regel & Maack) Hara

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Bogataya Griva mountain ridge, in vicinity of Emar-Lazurnaya bays, forest on the slope, 8 Jul 2005, *Yakubov 10037* (VLA).

#### PAPAVERACEAE

*Chelidonium asiaticum* (Hara) A. Krahulcová

$2n = 10$ , CHN. Russia, East Siberia, Irkutskaya Oblast', lakeside of Baikal Lake, 17 km north-eastwards of Listvyanka, near Bol'shie Koty village, a slope near Biological station, *Pinus* and *Larix* forest, 13 Sep 2007, *Probatova & Seledets 10676* (VLA); Russia, Far East, Amurskaya Oblast', 40 km northwards of Blagoveshchensk, the nature protected area Mukhinka, near the tourist centre "Mukhinka", forest edge, 30 Sep 2007, *Probatova & Seledets 10700* (VLA); Russia, Far East, Amurskaya Oblast', Blagoveshchensk city, Chaikovskii Str., ruderal place, 4 Oct 2007, *Probatova & Seledets 10748* (VLA); Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Sadgorod, roadside, 26 Sep 2000, *Probatova 8368* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Klykova Island, sea shore, 3 Jul 2007, *Seledets 10636* (VLA); China, Heilongjiang Province, outskirts of Harbin city, as a weed in arboretum, 1 Jul 2001, *Probatova & Seledets 8527* (VLA).

*Chelidonium majus* L.

$2n = 12$  (2 Sat.), CHN. Russia, Caucasus, Krasnodarskii Krai, Krasnodar city, as a weed between shrubs planting, near

the Kubanskii University, 1991, *Probatova & Seledets 6970* (VLA).

*Hylomecon vernalis* Maxim.

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, vicinity of Podnozhie, 500 m to Shigino, cutting in the forest, near the rivulet, 28 May 2007, *Rudya 10574* (VLA).

*Papaver sokolovskajae* Prob.

$2n = 56$ , CHN. Russia, Far East, Primorskii Krai, Lazovskii Raion, Kievka Bay, sea shore, near Biological station "Zapovednoe", sandy-pebble beach, 25 Aug 2005, *Orlovsky 9924* (VLA).

#### PHRYMACEAE

*Phryma asiatica* (Hara) O. Deg. & I. Deg.

$2n = 28$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Sadgorod, forest road, 26 Sep 2000, *Probatova 8388* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, watershed of Voevoda and Boyarin Bays, forest edge, 24 Sep 1999, *Probatova & Seledets 8055* (VLA).

#### POACEAE

*Agrostis clavata* Trin.

$2n = 42$ , CHN. Russia, Far East, Evreiskaya Avtonomnaya Oblast', 15 km northwards of Birobidzhan, nature reserve "Bastak", 10 Jul 2002, *Rubtsova 8939* (VLA).

*Agrostis scabra* Willd.

$2n = 42$ , CHN. Russia, Far East, Magadanskaya Oblast', Ol'skii Raion, Yama River, 10 km above the mouth of Khalanchiga River, *Chosenia* forest, on the pebble, 21 Aug 1996, *Mochalova 7742* (VLA).

*Alopecurus arundinaceus* Poir.

$2n = 28$ , CHN. Russia, Far East, Evreiskaya Avtonomnaya Oblast', railway station Unchun, on the railroad embankment, 29 Jul 2002, *Starchenko 8954* (VLA).

*Alopecurus longiaristatus* Maxim.

$2n = 14$ , CHN. Russia, Far East, Evreiskaya Avtonomnaya Oblast', Leninskii Raion, Amur River valley, near Voskresenovka, lakeside, on the sandbank, 21 Jul 2002, *Rubtsova & Starchenko 8955* (VLA).

*Avenula schelliana* (Hack.) Holub

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Ussuriyskii Raion, near Korfovka, dry slope, 11 Jun 2004, *Pavlova 9269* (VLA).

*Beckmannia hirsutiflora* (Roshev.) Prob.

$2n = 14$ , CHN. Russia, Far East, Khabarovskii Krai, Amur River opposite Khabarovsk, Pokrovskii post, 1996, *Kryukova 7793* (VLA); Russia, Far East, Khabarovskii Krai, Nanaiskii Raion, Amur River near Sikachi-Alyan village, 1999, *Kryukova 8089* (VLA).

\* *Calamagrostis xandrejewii* Litv. (*C. arundinacea* (L.) Roth × *C. obtusata* Trin.)

$2n = 28$ , CHN. Russia, East Siberia, Irkutskaya Oblast', lakeside of Baikal Lake, 17 km of Listvyanka, near Bol'shie Koty village, *Pinus* and *Larix* forest on the slope, 13 Sep 2007, *Probatova & Seledets 10906* (VLA).

*Calamagrostis brachytricha* Steud.

2n = 56, CHN. Russia, Far East, Amurskaya Oblast', 40 km northwards of Blagoveshchensk, the nature protected area Mukhinka, mountainside, *Pinus* and *Quercus* forest, 30 Sep 2007, *Probatova & Seledets 10760* (VLA).

*Calamagrostis obtusata* Trin.

2n = 28, CHN. Russia, East Siberia, Irkutskaya Oblast', lakeside of Baikal Lake, 17 km of Listvyanka, near Bol'shie Koty village, at the bottom of the slope, forest edge, 13 Sep 2007, *Probatova & Seledets 10920* (VLA).

*Chloris virgata* Sw.

2n = 20, CHN. Russia, Far East, Primorskii Krai, Oktyabr'skii Raion, near Poltavka check-point, 2003, *Shvydkaya 9114* (VLA).

*Elytrigia repens* (L.) Nevski

2n = 42, CHN. Russia, East Siberia, Irkutskaya Oblast', Irkutsk city, Pushkina Str., roadside, waste place, 18 Sep 2007, *Probatova & Seledets 10675* (VLA); Russia, Far East, Khabarovskii Krai, Khabarovsk city, housing area "Severnyi", ruderal place, Jul 1999, *Probatova & Seledets 9142a* (VLA).

*Eragrostis minor* Host

2n = 40, CHN. Russia, East Siberia, Transbaikalia, Chitinskaya Oblast', railway station Chernyshevsk-Zabaikal'skii, as a weed on the flower-bed, 20 Sep 2007, *Probatova & Seledets 10784* (VLA).

*Eriochloa villosa* (Thunb.) Kunth

2n = 54, CHN. Russia, Far East, Amurskaya Oblast', Arkharinskii Raion, 60 km south-eastwards of Arkhara railway station, riverside of Uril River, the edge of a field, 2000, *Kudrin 8385* (VLA).

*Festuca valesiaca* Gaudin

2n = 14, CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, Novo-Shakhtinsk settlement, waste place, 23 Jul 2007, *Lapenko 10652* (VLA).

*Glyceria triflora* (Korsh.) Kom.

2n = 20, CHN. Russia, Far East, Amurskaya Oblast', Oktyabr'skii Raion, 20 km of Varvarovka settlement, Erkovetskii coal digging, catch water drain, 2001, *Denissenko 8720* (VLA).

*Hordeum brevisubulatum* (Trin.) Link

2n = 28, CHN. Russia, Far East, Magadanskaya Oblast', Ten'kinskii Raion, Tenke River, near the bridge on the Ten'kinskaya route, flood-plain, 24 Aug 1993, *Probatova & Seledets 7061* (VLA).

*Hordeum jubatum* L.

2n = 28, CHN. Russia, Far East, Amurskaya Oblast', Oktyabr'skii Raion, 15 km south-westwards of Varvarovka, Erkovetskii coal digging, roadside, 2004, *Shatokhina 9715* (VLA).

*Hordeum roshevitzii* Bowden

2n = 14, CHN. Russia, Far East, Primorskii Krai, Shkovskii Raion, near Shkotovo, sea shore, 7 Jul 2001, *Nechaev 8505* (VLA).

*Melica nutans* L.

2n = 18, CHN. Russia, Far East, Khabarovskii Krai, Komsomol'sk-on-Amur city, Silinsky nature forest park, Jun 2002, *Babkina 8827* (VLA).

*Microstegium nodosum* (Kom.) Tzvel.

2n = 40, CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, between Voevoda and Boyarin bays, forest edge, moist depression, 24 Sep 1999, *Probatova & Seledets 8454* (VLA).

*Neomolinia fauriei* (Hack.) Honda

2n = 38, CHN. Russia, Far East, Primorskii Krai, Khasanskii Raion, nature reserve Kedrovaya Pad', 24 Sep 2007, *Korkishko 10923* (VLA).

*Neomolinia mandshurica* (Maxim.) Honda

2n = 38, CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Popova Island, near Stark Strait, forest on the slope, 12 Sep 1997, *Probatova & Seledets 7381* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 13 Oct 2000, *Berkutenko 8746* (VLA).

*Parapholis incurva* (L.) C.E. Hubb.

2n = 36, CHN. Greece, 400 km of Pirey, Karpenizi, 800 m, Dec 1996, *Bezkorovainaya 7784* (VLA).

*Poa botryoides* (Trin. ex Griseb.) Kom.

2n = 28, CHN. Russia, Far East, Amurskaya Oblast', Oktyabr'skii Raion, vicinity of Varvarovka, Erkovetskii coal digging, meadow, 2001, *Denissenko 9164* (VLA).

*Poa compressa* L.

2n = 42, CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, 140 km of the route Vladivostok–Khabarovsk, in vicinity of Ossinovka village, 20 Aug 1996, *Rudyka 7453* (VLA).

*Poa palustris* L.

2n = 28, CHN. Russia, Far East, Khabarovskii Krai, outskirts of Khabarovsk, country area, valley forest edge, Jul 2003, *Tsyrenova 9135* (VLA).

*Poa paucispicula* Scribn. & Merr.

2n = 42, CHN. Russia, Far East, Kamchatka, south-east, Nalychevskii nature protected park, Zhupanovskaya Sopka Volcano, 1,000 m, mountain tundra belt, stony slope, near snow field, 24 Aug 1995, *Yakubov 7568* (VLA).

\**Poa pruinosa* Korotkij

2n = 42, CHN. Russia, East Siberia, Transbaikalia, Buryatiya, Pribaikal'skii Raion, near Turka settlement, *Pinus-Bergenia* forest on the lakeside of Baikal Lake, 11 Sep 2004, *Chepinoga 10472* (VLA).

*Poa vorobievii* Prob.

2n = 28, CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Malii Island, coastal rocks, 3 Jul 2007, *Seledets 10619* (VLA).

*Setaria faberi* Herrm.

2n = 36, CHN. Russia, Far East, Amurskaya Oblast', Oktyabr'skii Raion, Erkovetskii coal digging, 16 km of Varvarovka, southern slope of terrace, 11 Aug 2001, *Denissenko 8734* (VLA).



*Setaria pachystachys* (Franch. & Sav.) Matsum.

$2n = 18$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, sea shore near Larionova Cape, on the pebble, 19 Sep 1997, *Probatova & Seledets 7555* (VLA).

#### POLEMONIACEAE

*Collomia linearis* Nutt.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Nadezhdinskii Raion, railway station Nadezhdinskaya, 2006, *Pavlova 10457* (VLA).

#### POLYGONACEAE

*Persicaria longiseta* (Bruyn) Kitag.

$2n = 40$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, forest in the central part, roadside, 19 Sep 1997, *Probatova & Seledets 7559* (VLA).

*Polygonum propinquum* Ledeb.

$2n = 20$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russky Island, Boyarin Bay, sea shore, sandy beach, 24 Sep 1999, *Probatova & Seledets 8146* (VLA).

*Rumex maritimus* L.

$2n = 40$ , CHN. Russia, Far East, Khabarovskii Krai, vicinity of Khabarovsk, Bychikha, near the office of Bol'shekhechtsirskii nature reserve, roadside, in the drain, 30 Aug 1993, *Probatova & Seledets 7195* (VLA).

#### PONTEDERIACEAE

*Monochoria korsakowii* Regel & Maack

$2n = 52$ , CHN. Russia, Far East, Primorskii Krai, Khorol'skii Raion, Khanka Lake, Lugovoe, rice-growing irrigation system, 24 Sep 2003, *s. coll. 9121* (VLA).

#### PORTULACACEAE

*Claytonia perfoliata* Donn

$2n = 24$ , CHN. Russia, Far East, Amurskaya Oblast', Tambovskii Raion, 52 km of Blagoveshchensk, in vicinity of Muravëvka, Muravëvskii nature protection park, as a weed on flower-bed, near ecological education centre, 4 Oct 2007, *Probatova & Seledets 10742* (VLA).

*Portulaca oleracea* L.

$2n = 18$ , CHN. Russia, Far East, Amurskaya Oblast', Tambovsky Raion, 52 km of Blagoveshchensk, Muravëvsky nature protection park, waste place near ecological education centre, 4 Oct 2007, *Probatova & Seledets 10901* (VLA).

$2n = 36$ , CHN. Russia, Far East, Primorskii Krai, Nadezhdinskii Raion, near Syrenevka, country place, as a weed, 2007, *Kapustina 10537* (VLA).

#### PRIMULACEAE

*Androsace septentrionalis* L.

$2n = 20$ , CHN. Russia, Far East, Kamchatka, Bystrinskii Raion, near Esso, southern slope, 31 Jul 2003, *Yakubov 9161* (VLA).

*Cortusa discolor* Vorosch. & Gorovoj

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Dal'negorskii Raion, Dal'negorsk, Bol'nichnii spring, in ravine, on limestone soil, 27 Jun 2003, *Gulariants 9020* (VLA).

*Lysimachia clethroides* Duby

$2n = 24$ , CHN. Russia, Far East, Primorskii Krai, Peter the

Great Bay, Elena Island, forest in central part of the island, 19 Sep 1997, *Probatova & Seledets 7436* (VLA).

#### RANUNCULACEAE

*Atragene ochotensis* Pall.

$2n = 16$ , CHN. Russia, Far East, Magadanskaya Oblast', Ten'kinskii Raion, the Ten'kinskaya route, 340th km, experimental area "Contact", 21 Aug 1993, *Probatova & Seledets 7166* (VLA).

*Halerpestes sarmentosa* (Adams) Kom.

$2n = 16$ , CHN. Russia, Far East, Primorskii Krai, Partizanskii Raion, near Anna settlement, 1 km of Anna Bay, sea shore, lagoon lake, 22 Aug 1997, *Probatova & Seledets 7335* (VLA).

*Ranunculus grandis* Honda

$2n = 28$ , CHN. Russia, Far East, Primorskii Krai, Muravëv-Amurskii Peninsula, Sadgorod, forest edge, 26 Sep 2000, *Probatova 8367* (VLA); Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, between Voevoda and Boyarin bays, moist forest, on the edge, 24 Sep 1999, *Probatova & Seledets 7931* (VLA).

*Ranunculus japonicus* Thunb.

$2n = 14$ , CHN. Russia, Far East, Primorskii Krai, Vladivostok, Karyernaya Str., slope of the hill, 2007, *Kapustina 10898* (VLA).

*Ranunculus sceleratus* L.

$2n = 32$ , CHN. Russia, Far East, Primorskii Krai, Vladivostok, Ovchinnikova Str., as a weed on the planting, near school building, Jun 2007, *Probatova & Seledets 10599* (VLA).

*Thalictrum amurense* Maxim.

$2n = 28$ , CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Elena Island, Cape Larionova, maritime slope with shrubs, 19 Sep 1997, *Probatova & Seledets 7574* (VLA).

#### ROSACEAE

*Dasiphora fruticosa* (L.) Rydb.

$2n = 14$ , CHN. Russia, Far East, Magadanskaya Oblast', Ten'kinskii Raion, the Ten'kinskaya route, 340-th km, experimental area "Contact", on the scree, 21 Aug 1993, *Probatova & Seledets 7162* (VLA).

*Fragaria mandshurica* Staudt

$2n = 14$ , CHN. Russia, Far East, Amurskaya Region, northwards of Blagoveshchensk, the nature protected area Mukhinka, mountainside, *Pinus* and *Quercus* forest, 30 Sep 2007, *Probatova & Seledets 10753* (VLA).

*Geum aleppicum* Jacq.

$2n = 42$ , CHN. Russia, Far East, Primorskii Krai, Mikhailovskii Raion, Grigorievka village, forest park, 12 Aug 1997, *Shatalova 7463* (VLA).

*Geum macrophyllum* Willd.

$2n = 42$ , CHN. Russia, Far East, Kamchatka, Ust'-Bol'sheretskii Raion, Kikhchik River basin, at the foothills of Sredinnyi mountain ridge, stony birch mountain belt, Pukonka River, flood-plain forest, 9 Aug 2001, *Yakubov 8749* (VLA).

*Malus mandshurica* (Maxim.) Kom.

$2n = 34$ , CHN. Russia, Far East, Primorskii Krai, Peter the

Great Bay, Russkii Island, 3 km south-eastwards of Glavnaya Mt., *Fraxinus* forest, at the stream, 17 Oct 1998, *Probatova & Seledets 7755* (VLA).

*Microcerasus tomentosa* (Thunb.) Eremin & Yushev

2n = 16, CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, near Podnozhie, waste place at the bottom of a slope, 24 Sep 1999, *Probatova & Seledets 7929* (VLA).

*Padus asiatica* Kom.

2n = 32, CHN. Russia, Far East, Amurskaya Oblast', 40 km northwards of Blagoveshchensk, the nature protected area Mukhinka, tourist centre "Mukhinka", lakeside, 30 Sep 2007, *Probatova & Seledets 10771* (VLA).

*Potentilla supina* L.

2n = 28, CHN. China, Heilongjiang Province, Suifenhe town, roadside, 2 Jul 2001, *Probatova & Seledets 8966*; China, Heilongjiang Province, Harbin, riverside of Songhua Jiang (Sungari River), 1 Jul 2001, *Probatova & Seledets 8962* (VLA).

*Sanguisorba tenuifolia* Fisch. ex Link

2n = 28, CHN. Russia, Far East, Kamchatka, Elizovskii Raion, vicinity of Petropavlovsk-Kamchatskii city, the edge of a bog, 29 Aug 2003, *Yakubov 9146* (VLA).

*Sieversia pentapetala* (L.) Greene

2n = 14, CHN. Russia, Far East, Kamchatka, Elizovskii Raion, vicinity of Petropavlovsk-Kamchatskii city, in a bog, 29 Aug 2003, *Yakubov 9633* (VLA).

*Spiraea salicifolia* L.

2n = 36, CHN. Russia, Far East, Khabarovskii Krai, outskirts of Khabarovsk city, valley forest edge, Jul 2003, *Tsyrenova 9134* (VLA).

## RUBIACEAE

*Rubia cordifolia* L.

2n = 22, CHN. Russia, Far East, Amurskaya Oblast', 40 km northwards of Blagoveshchensk city, the nature protected area Mukhinka, mountainside, *Pinus* and *Quercus* forest, 30 Sep 2007, *Probatova & Seledets 10758* (VLA).

## SCROPHULARIACEAE

*Linaria japonica* Miq.

2n = 12, CHN. Russia, Far East, Primorskii Krai, Khassanskii Raion, near Slavyanka settlement, Baklan Bay, sea shore, on sands, 28 Aug 2004, *Burundukova 9371* (VLA).

*Pedicularis lanata* Cham. & Schldtl.

2n = 16, CHN. Russia, Far East, Kamchatka, Ust'-Bol'sheretskii Raion, Kikhchik River basin, western shoots of Sredinnyi mountain ridge, near Aopcha village, 700 m, subshrub tundra on the saddle between two hills, 10 Aug 2001, *Yakubov 8843* (VLA).

*Pennellianthus frutescens* (Lamb.) Crosswh.

2n = 40, CHN. Russia, Far East, Kamchatka, Avachinskaya Volcano, southern mountainside, Lavovaya Pad', subalpine belt, on volcanic scoria, 5 Sep 2000, *Yakubov 8486* (VLA).

## URTICACEAE

*Urtica cannabina* L.

2n = 26, CHN. Russia, Far East, Primorskii Krai, Nade-

zhinskii Raion, railway station Nadezhdinskaya, 2005, *Pavlova 9977* (VLA).

## VALERIANACEAE

*Patrinia scabiosifolia* Fisch. ex Link

2n = 22, CHN. Russia, Far East, Primorskii Krai, Peter the Great Bay, Russkii Island, 2 km north-westwards of Cape Vyatlina, marine terrace, meadow with shrubs, 24 Sep 1999, *Probatova & Seledets 7989* (VLA).

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\* First chromosome count for the species.

## ASTERACEAE

\* *Inula* × *semiamplexicaulis* Reut.

2n = 16, CHN. Switzerland, close to Basel, 27 Sep 2007, *Reduron, Hildenbrand & Meyer CBM 96-201* (STR).

*Senecio aquaticus* subsp. *barbareifolius* (Wimm. & Grab.) Walters

2n = 40, CHN. France, Haut-Rhin, Gildwiller, wet forest, 17 Oct 2007, *Reduron, Hildenbrand & Meyer CBM 875* (STR).

## BRASSICACEAE

*Iberis linifolia* subsp. *contejeani* (Billot) Kerguélen

2n = 18, CHN. France, Doubs, Champvermol near Mandreure, calcareous screes, 2 Jul 1999, *Reduron, Hildenbrand & Meyer CBM 8972* (STR).

## GERANIACEAE

*Geranium palustre* L.

2n = 28, CHN. France, Haut-Rhin, Leymen along a ditch, 10 Jun 2002, *Reduron, Hildenbrand & Meyer CBM 02-088A* (STR).

## SCROPHULARIACEAE

\* *Veronica austriaca* L. subsp. *pseudochamaedryis* (Jacq.) Kerguélen

2n = 64, CHN. France, Bas-Rhin, Rhinau, 3 Oct 2007, *Reduron, Hildenbrand & Meyer CBM 98-004* (STR).

## VIOLACEAE

\* *Viola canina* subsp. *ruppii* (All.) Schübl. & G. Martens [= *Viola canina* subsp. *schultzii* (Billot) Rouy & Foucaud].

2n = 40, CHN. France, Haut-Rhin, Habsheim, thermophilous forest clearings, 1 Jul 1994, *Reduron, Hildenbrand & Meyer CBM 06-032B* (STR).

Note: cultivated plants from the extinct population.

## APIACEAE

\* *Ammi huntii* H.C. Watson

2n = 22, CHN. Azores, Faial Island, 100 m, 27 Sep 2007, *Reduron, Hildenbrand & Meyer CBM 9703* (STR).

\**Ammi trifoliatum* (H.C. Watson) Trel.  
 $2n = 22$ , CHN. Azores, Santa Maria easternmost Island, 2 Jul 1999, Reduron, Hildenbrand & Meyer CBM 2011 (STR).

*Bonannia graeca* (L.) Halácsy  
 $2n = 22$ , CHN. Sicily, Le Madonie, Quacella, 4 Jun 2004, Reduron, Hildenbrand & Meyer CBM 01-104 (STR).

*Foeniculum vulgare* Mill. subsp. *piperitum* (Ucria) Bég.  
 $2n = 22$ , CHN. France, Alpes-Maritimes, Biot, near Valbonne, 27 Sep 2007, Reduron, Hildenbrand & Meyer CBM 9357 (STR).

\**Glaucosciadium cordifolium* (Boiss.) B.L. Burtt & P.H. Davis  
 $2n = 22$ , CHN. Cyprus, Paphos Nikolaos, 03 Nov 1999, Reduron, Hildenbrand & Meyer CBM 04-100 (STR).

*Oenanthe lisae* Moris  
 $2n = 22$ , CHN. Sardinia, Giara di Gesturi 1,000 m, 25 Mar 2004, Reduron, Hildenbrand & Meyer CBM 02-054 (STR).

*Scandix balansae* Reut. ex Boiss.  
 $2n = 16$ , CHN. France, Cher, Sancerre, in vineyard, 8 Apr 2003, Reduron, Hildenbrand & Meyer CBM 05-005 (STR).

*Sison exaltatum* Boiss.  
 $2n = 14$ , CHN. Libanon, near Beirut, 2 Oct 2007, Reduron, Hildenbrand & Meyer CBM 9731 (STR).

#### CYPERACEAE

*Carex fritschii* Waisb.  
 $2n = 30$ , CHN. France, Haut-Rhin, Habsheim, thermophilous clear forest, 18 Oct 1995, Reduron, Hildenbrand & Meyer CBM 9588 (STR).

#### IRIDACEAE

*Crocus neapolitanus* Ker Gawl.  
 $2n = 16$ , CHN. France, Haut-Rhin, Aspach-le-Bas, 20 Feb 2008, Reduron, Hildenbrand & Meyer CBM 2073 (STR).