



Chromosome Number Reports XCIX

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CHROMOSOME NUMBER REPORTS XCIX

Edited by Åskell Löve

These reports are intended as a place of publication of stray cytotaxonomical observations which otherwise might remain unpublished. Preference is given to chromosome numbers for taxa not previously known in this respect or rarely reported, but confirmation of numbers established by three or more earlier reports must be declined for financial reasons. Likewise, reports longer than two type-written pages can be accepted only in exceptional cases. Families, genera and species must be arranged alphabetically, and a brief reference to a single voucher specimen and the place where it is deposited is recommended. Since a critical identification of the material is important, collective species names can be accepted only if qualified by subspecific or varietal denotations. Inexact chromosome counts should be avoided as must indirect reports of chromosome numbers through mentioning of meiotic configurations. Contributions should be sent to Åskell Löve, 5780 Chandler Court, San José, CA 95123, U.S.A., who will edit them, if necessary, to fit the norms above. Receipt can be acknowledged only if stamped (American) envelope or an international postal coupon (two for airmail) accompanies the manuscript, but publication can normally be expected within seven to twelve months.

Reports by LAURENCE E. SKOG and ROYCE L. OLIVER, Department of Botany, Smithsonian Institution, Washington, DC 20560, U.S.A. Vouchers in US:

GESNERIACEAE

- Petrocosmea nervosa* Craib. n = 17. China. *Skog & Hanel 5707*.
Phinaea divaricata (Poepp.) Wiehl. n = 11. Peru. *Skog & Hodapp 5465*.

Reports by CHARLES SORENSSON, Department of Horticulture, University of Hawaii, Honolulu, HI 96822, U.S.A. Vouchers in BISH:

FABACEAE

- Leucaena collinsii* Britton & Rose. n = 28. Mexico: Chiapas, 3 km W of Tuxtla. *USD API 443514*.
Leucaena cuspidata Standley. n = 56. Mexico: Oaxaca, 5 km S of Matatlan. *CPI 85880*.
Leucaena gregii S. Wats. n = 28. Mexico: Nuevo León, 7 km from Galeana toward Rayones.
Sorensen & VanDenBeldt s.n.
Leucaena salvadorensis Standley. n = 28. Honduras: Morazan, Francisco, La Garita. *Hughes s.n.*

Reports by S. D. VERRYIN, Vegetable and Ornamental Plant Research Institute, Private Bag X293, Roodeplaat, Pretoria 0001, Republic of South Africa. Localities in Cape Province, South Africa. Vouchers in VOPRI:

IRIDACEAE

- Gladiolus angustus* L. 2n = 30. Cape Flats. *G90*.
Gladiolus carneus Delaroche. 2n = 30. Kleinmond. *G95*.
Gladiolus floribundus Jacq. subsp. *floribundus*. 2n = 30. Forestry Nursery. *G7*.
Gladiolus floribundus Jacq. subsp. *miniatus* (Eckl.) Oberm. 2n = 30. Indigenous Gladiolus Nursery. *G97*.
Gladiolus quadrangulus (Delaroche) Barnard. 2n = 30. Forestry Nursery. *G25*.
Gladiolus undulatus L. 2n = 30. Indigenous Gladiolus Nursery. *G108*.
Watsonia alethroides (Burm. f.) Ker-Gawl. 2n = 18. Indigenous Gladiolus Nursery. *G5*.

Reports by S. M. GHAFARI, Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran. Localities in Iran. Vouchers in IBB:

ASTERACEAE

- Centaurea aucheri* (DC.) Wagenitz subsp. *szowitzii* (Boiss.) Wagenitz. n = 9. Eshtehard, Vakin. Ghaffari 4466.
Hieracium verrucatum Lin. n = 18. Karak, Minavand. Ghaffari 9462.
Taraxacum calliops Haglund. n = 12. Karaj, Shah-Dasht. Ghaffari 663.

BORAGINACEAE

- Heliotropium chorassanicum* Bunge. n = 8. Khorassan, between Mashhad and Torbat-Hydari. Ghaffari 2265.
Heterocaryum macrocarpum Zak. n = 12. Karaj, Shah-Dasht. Ghaffari 262.
Nonea persica Boiss. n = 16. Eshtehard, Vakin. Ghaffari 4766.
Onosma longilobum Bunge. n = 8. Ghom. Ghaffari 2665.
Onosma microcarpum DC. n = 8. Tehran, Sologhon. Ghaffari 5366.
Paracaryum rugulosum (DC.) Boiss. n = 12. Between Shahroud and Sabzewar. Ghaffari 8566.
Rindera albida (Wettst.) Kusn. n = 12. Tehran, Sorkh-Hesar. Ghaffari 3366.

BRASSICACEAE

- Aethionema trinervium* (DC.) Boiss. n = 21. Tehran, Ab-Ali. Ghaffari 8864.
Graellsia saxifragifolia (DC.) Boiss. n = 7. Between Tehran and Amol. Ghaffari 9564.

CARYOPHYLLACEAE

- Acanthophyllum caespitosum* Boiss. n = 15. Toyserkan. Ghaffari 10666.
Acanthophyllum elatius Bunge. n = 15. Between Sabzewar and Shahroud. Ghaffari 7366.
Acanthophyllum khorassanicum Rech. f. n = 15. Mashhad, Shandiz. Ghaffari 3165.
Acanthophyllum lilacinum Schischkin. n = 15. Sharoud, Tang-e-Olang. Ghaffari 6966.

CLUSIACEAE

- Hypericum scabrum* L. n = 24. Tehran, Ab-Ali. Ghaffari 7464.

FABACEAE

- Astragalus glaucanthus* Fischer & Mey. n = 8. Tehran, Chitgar. Ghaffari 2366.

LAMIACEAE

- Hymenocrater bituminosus* Fischer & Mey. n = 9. Karaj, Asara. Ghaffari 3963.

PLUMBAGINACEAE

- Acantholimon aristulatum* Bunge. n = 15. Tehran, Chitgar. Ghaffari 1566.
Acantholimon scorpius (Jaub. & Spach) Boiss. 2n = 30. Tehran, Varamin. Ghaffari 1366.

POLYGALACEAE

- Polygala anatolica* Boiss. & Heldr. n = 16. Chalus, Seayah-Bisheh. Ghaffari 1765.

RANUNCULACEAE

- Delphinium cyphoplectrum* Boiss. n = 8. Dezful. Ghaffari 266.

RESEDACEAE

- Reseda aucheri* Boiss. n = 16. Ghom. Ghaffari 6865.

RUBIACEAE

- Crucianella glauca* A. Rich. n = 11. Tehran, NW. Ghaffari 6564.

SOLANACEAE

- Hyoscyamus senecionis* Willd. n = 34. Semnan. Ghaffari 3265.

VALERIANACEAE

- Valeriana sisymbriifolia* Vahl. n = 8. Tehran, Peleur. Ghaffari 9664.

Reports by ÁSKELL LÖVE and DORIS LÖVE, 5780 Chandler Court, San José, CA 95123, U.S.A. Localities in U.S.A:

ALSINACEAE

- Eremogone fendleri* (A. Gray) Ikonnikov. 2n = 44. Colorado, Niwot Ridge. *L. & L. s.n.*
Pseudostellaria jamesiana (Torrey) Weber & Hartman. 2n = 96. Colorado, Niwot Ridge. *L. & L. s.n.*

POACEAE

- Poa lettermanii* Vasey. 2n = 14. Colorado, Gray's Peak. *L. & L. s.n.*

POLYGONACEAE

- Bistorta bistortoides* (Pursh) Small. 2n = 24. Colorado, Niwot Ridge. *L. & L. s.n.*
Bistorta major S. F. Gray. 2n = 48. California, Cape Mendocino. *L. & L. s.n.*
Bistorta vivipara (L.) S. F. Gray. 2n = 96. Colorado, Niwot Ridge. *L. & L. s.n.*

Reports by BEN-ERIK Van WYK and ANNE LISE SCHUTTE, Department of Botany, Rand Afrikaans University, Johannesburg 2000, South Africa. Vouchers in JRAU:

FABACEAE

- Argyrolobium brevicalyx* Stirton. 2n = 30. Cape Prov., Uitvlug farm. *Schutte 386.*
Argyrolobium variopile N. E. Br. 2n = 30. Transvaal, Irène. *Schutte 201.*
Dichilus gracilis Eckl. & Zeyh. 2n = 28. Orange Free State, 8 km from Fauresmith to Luckhoff. *Schutte 247.*
Dichilus pilosus Conrath. 2n = 28. Transvaal, Krugersdorp Game Reserve. *Schutte 94.*
Dichilus lebeckioides DC. 2n = 28. Orange Free State, 38 km N of Bethlehem. *Schutte 153.*
Dichilus reflexus (N. E. Br.) Schutte. 2n = 28. Transvaal, near Pongola. *Schutte 180.*
Dichilus stictus E. Mey. 2n = 28. Orange Free State, 46 km N of Bethlehem. *Schutte 154.*
Melolobium adenodes Eckl. & Zeyh. 2n = 18. Cape Province, near Ceres. *Schutte 333.*
Melolobium canescens Benth. 2n = 18. Orange Free State, 122 km S of Bloemfontein along N1 route. *Schutte 303.*
Melolobium involucreatum (Thunb.) Stirton. 2n = 32. Cape Province, Bloemfontein farm, Calvinia district. *Schutte 396.*
Melolobium obcordatum Harv. 2n = 18. Orange Free State, Clarens. *Schutte 147.*
Melolobium subspicatum Conrath. 2n = 18. Transvaal, Irène. *Schutte 114.*

Reports by RICHARD SPELLENBERG and DARRELL WARD, Department of Biology, New Mexico State University, Las Cruces, NM 88001, U.S.A. Localities in Yemen Arab Republic, Ibb Governate, vicinity of Ibb, except as noted. Vouchers in NY, or as stated:

ASTERACEAE

- Echinops spinosissimus* Turra. n = 14. *Spellenberg 7203.*
Felicia abyssinica Schultz Bip. n = 9. *Spellenberg 7323.*
Osteospermum vaillantii (Dcne.) T. Norl. n = 16. Sana'a Governate, Sana'a. *Spellenberg s.n.*

FABACEAE

- Acacia origena* Hinde. 2n = 26. *Spellenberg 7166.*
Astragalus atopilosulus (Hochst.) Bunge subsp. *burkeanus* (Harv.) Gillett. n = 8. *Spellenberg 7220.*
Indigofera arabica Jaub. & Spach. n = 8. *Spellenberg 7223.*
Pterolobium stellatum (Forssk.) Brenan. n = 12. *Spellenberg 7287.*
Tephrosia elata Deflers. n = 13. *Spellenberg 7320.*
Vermiflux abyssinica (A. Rich.) Gillett. n = 7. *Spellenberg 7173 (K).*

LAMIACEAE

- Plectranthus barbatus* Andr. n = 14. *Spellenberg 7411.*

MALVACEAE

- Hibiscus welbyi* Sprague. n = 18. *Spellenberg 7231 (K).*
Sida ovata Forssk. n = 14. *Spellenberg & Abushe'ar 7361 (K).*

NYCTAGINACEAE

- Commicarpus arabicus* Meikle. n = 20. *Spellenberg 7287 (NMC).*
Commicarpus helenae (J. Schultes) Meikle. n = 21. Ta'izz Governate, Ta'izz. *Spellenberg & Abushe'ar 7380.*
Commicarpus plumbagineus (Cav.) Standl. n = 20. Ta'izz Governate, Ta'izz. *Spellenberg & Abushe'ar 7347.*
Commicarpus sinuatus Meikle. n = 21. Dhamar Governate, Rada. *Spellenberg 7506; n = 21. Sana'a Governate, Sana'a. Spellenberg 7144 (NMC, NY).*

RESEDACEAE

- Ochradenus baccatus* Del. n = 28. Dhamar Governate, Rada. *Spellenberg 7500.*

Reports by E. ROUTSI and T. GEORGIADIS, Botanical Institute, University of Patras, Patras, Greece. Localities in Greece. Vouchers in UPA:

ASTERACEAE

- Centaurea acicularis* Sm. var. *urvillei* Boiss. 2n = 20. Icaria. *Christod.* 2099.
Centaurea argentea L. 2n = 18. Cythira. *Iatrou & Georgiadis* 2340.
Centaurea chrysocephala Phitos & Georgiadis. 2n = 18. Klinova, Flisvi. *Georgiadis* 6900.
Centaurea cytherea Rech. 2n = 20. Cythira, Kapsali. *Iatrou & Georgiadis* 2313.
Centaurea ebenoides Heldr. 2n = 20. Eubia, Candili. *Georgiadis* 6897.
Centaurea graeca Griseb. 2n = 20. Larissa, Pinios River. *Georgiadis* 6895.
Centaurea lactucifolia Boiss. 2n = 20. Dodekanisa, Halki. *Georgiadis & Iatrou* 2648.
Centaurea macedonica Boiss. 2n = 20. Mt Hortiati, hills of Avestohorion. *Georgiadis* 6907.
Centaurea oliverana DC. 2n = 22. Cyclades, Amorgos. *Tzanoudakis* 7355.
Centaurea psilacantha Boiss. & Heldr. 2n = 20. Phokis, Delphi, St. Loukas. *Georgiadis* 6904.
Centaurea poculatoris Greuter. 2n = 18. Crete, Faragi. *Iatrou* 2580.
Centaurea raphanina Sm. 2n = 20. Nemea. *Georgiadis* 2031.
Centaurea redempta Heldr. 2n = 20. Crete, Hania. *Tzan* 7841.
Centaurea sonchifolia L. 2n = 44. Achaia, Strofilia. *Georgiadis & Christ* 2864.

Reports by KULDEEP KUMAR KOUL, Department of Botany, University of Kashmir, Srinagar-190006, India. Localities in India. Vouchers in KASH:

POACEAE

- Agrostis hissarica* (Rozhev.) Bor. n = 21. Kashmir, Chandilora. *KK-118*.
Digitalia violascens Link. n = 18. Kashmir, Anchar Lake. *KK-115*.
Poa stewartiana Bor. n = 40. Kashmir, Khillanmarg. *KK-135*.

Reports by DALE M. BENHAM, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86001, U.S.A. and CLARK G. SCHAACK, Department of Botany, University of Wisconsin, Madison, WI 53706, U.S.A. Localities in U.S.A. Vouchers in ASC:

ADIANTACEAE

- Cheilanthes eatonii* Baker. n = 90. Texas, Jeff Davis Co., Barrell Springs. *Benham* 812.
Notholaena copelandii C. C. Hall. n = 30. Texas, Real Co., W of Leakey. *Benham* 804.
Notholaena greggii (Mett.) Maxon. n = 30. Texas, Presidio Co., SE of Presidio. *Benham* 993.
Notholaena limitanea Maxon. n = 81. Arizona, Pima Co., Rincon Mts. *Hevly s.n.*
Notholaena standleyi Maxon. n = 30. Texas, Jeff Davis Co., Davis Mts. *Benham* 815.
Pellaea wrightiana Hooker. n = 58. Arizona, Pima Co., Rincon Mts. *Hevly s.n.*

ASTERACEAE

- Senecio actinella* Greene. n = 20. Arizona, Coconino Co., Flagstaff. *Schaack* 1802.

RANUNCULACEAE

- Clematis hirsutissima* Pursh var. *arizonica* (Heller) Erickson. n = 8. Arizona, Coconino Co., Lower Lake Mary. *Schaack* 2077.

ROSACEAE

- Purshia tridentata* (Pursh) DC. n = 9. Arizona, Coconino Co., I-40 exit one mile E of Parks. *Schaack* 2063.

SCROPHULARIACEAE

- Penstemon putus* A. Nels. n = 8. Arizona, Coconino Co., near Kinder Spring, Mogollen Rim. *Schaack* 1235.
Penstemon strictus Benth. n = 8. Arizona, Coconino Co., I-17 S of Flagstaff. *Schaack* 1235.

ZYGOPHYLLACEAE

- Larrea divaricata* Cav. subsp. *tridentata* (Sessé & Moc.) Felger & Lowe. n = 13. Arizona, Yavapai Co., Camp Verde vicinity. *Schaack* 1103.