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Magsar Urgamal

М. Ургамал

DISTRIBUTION OF APIACEAE SPECIES IN MONGOLIA

РАСПРОСТРАНЕНИЕ ВИДОВ СЕМЕЙСТВА ЗОНТИЧНЫЕ (APIACEAE) В МОНГОЛИИ

В сообщении приведены новые данные о видовом составе и распространении видов семейства Апиасеае в Монголии. На данный момент семейство представлено в Монголии 76 видами из 39 родов.

Introduction. The Celery family (Apiaceae Lindl.) is one of the biggest families in the Mongolian flora for which Gubanov (1996) reported 34 genera and 66 species. Subsequent studies enabled to update this information and currently the numbers grew up to 39 genera and 76 species. Below, a list of all Mongolian Apiaceae species is presented; distribution (fig. 1) is given according to 16 phyto-geographical regions proposed by V.I. Grubov (1982).

Materials and methods. Collections of Apiaceae from the Herbarium of the Institute of Botany, MAS (UBA), Herbarium of the National University of Mongolia (UBU), Herbarium of the Institute of Botany, CAS

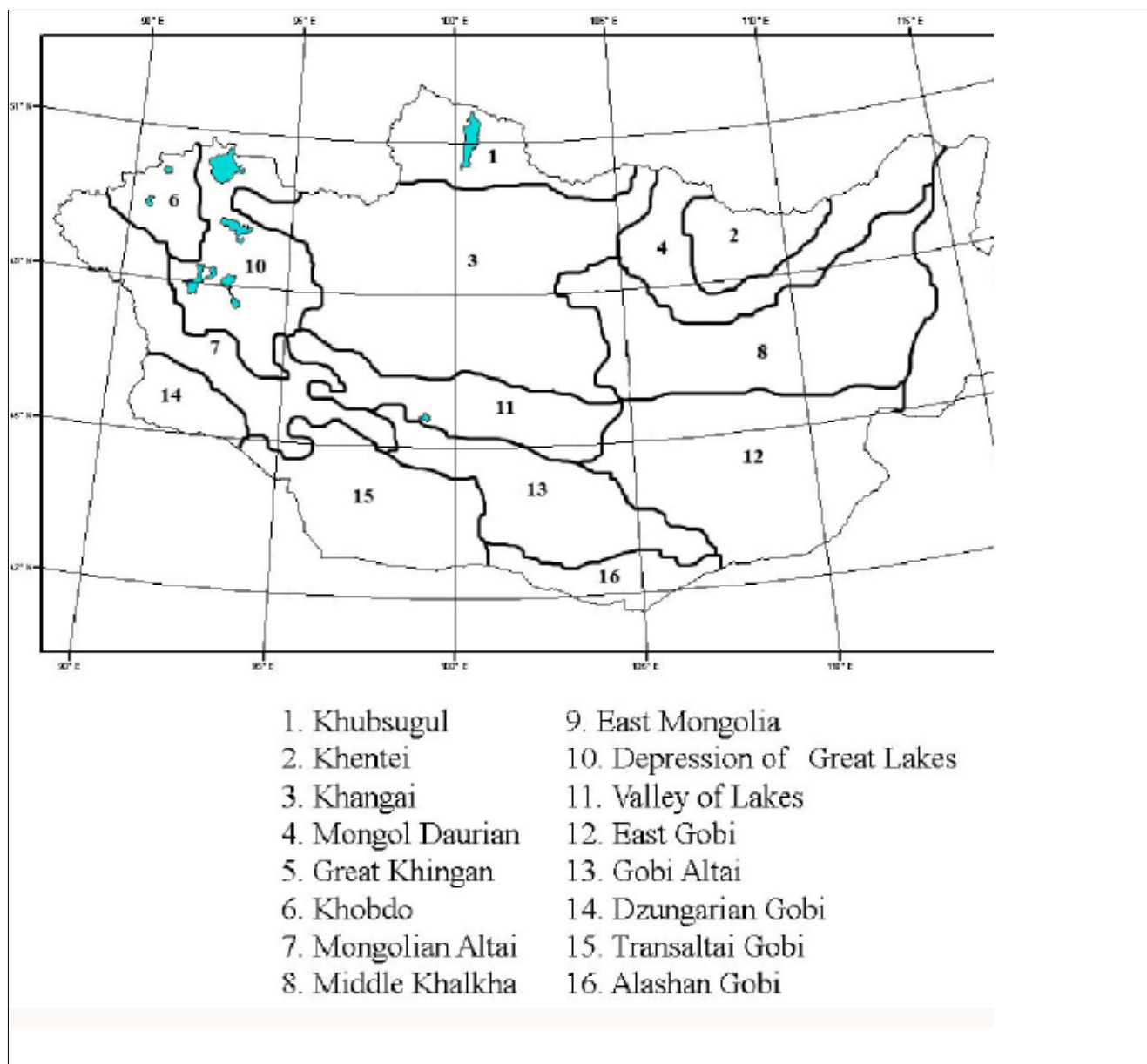


Table 1

Distribution of Apiaceae species in Mongolian flora

<i>Species</i>	<i>Phyto-geographical regions of Mongolia (fig. 1)</i>
1	2
1. <i>Eryngium planum</i> L.	4
2. <i>Sphallerocarpus gracilis</i> (Bess. ex Trev.) Koso-Pol.	1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13
3. <i>Anthriscus sylvestris</i> (L.) Hoffm.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
+ 4. <i>Coriandrum sativum</i> L.	3+, 4+
5. <i>Pleurospermum uralense</i> Hoffm.	1, 2, 3, 4, 5, 6, 8, 9
6. <i>Aulacospermum anomalum</i> Ledeb.	7
7. <i>Prangos ledebourii</i> Herrnst. & Heyn	7, 14
8. <i>Bunium setaceum</i> (Schrenk ex Fisch. & Mey.) H. Wolff	6, 7
9. <i>Bupleurum aureum</i> Fisch. ex Hoffm.	7
10. <i>B. multinerve</i> DC.	2, 3, 4, 5, 6, 7+, 9+
11. <i>B. mongolicum</i> V.M. Vinogr.	7, 13, 14
12. <i>B. sibiricum</i> Vest ex Roem. & Schult.	2, 3, 4, 5, 8+, 9+
13. <i>B. bicaule</i> Helm	1-13
+ 14. <i>B. pusillum</i> Kryl.	1+, 2+, 3+, 6+, 7+, 13+
15. <i>B. krylovianum</i> Schischk.	3+, 7
16. <i>B. scorzonerifolium</i> Willd.	1, 2, 3, 4, 5, 8, 9
+ 17. <i>Apium graveolens</i> L.	1+, 2+, 3+, 4+, 7+
+ 18. <i>Petroselinum crispum</i> (Mill.) Nyman ex A.W. Hill	1+, 3+, 4+
19. <i>Cicuta virosa</i> L.	1+, 2-15
20. <i>Carum carvi</i> L.	1+, 2, 3, 4, 5, 7-10, 13, 14, 16+
21. <i>C. buriaticum</i> Turcz.	1+, 2, 3, 4, 5, 6, 8, 9
22. <i>Pimpinella thellungiana</i> H. Wolff	4, 5, 9
23. <i>Aegopodium alpestre</i> Ledeb.	1, 2, 3, 4, 5, 13
24. <i>Sium suave</i> Walt.	1, 2, 3, 4, 5, 6, 7, 8, 9+, 10, 14+
25. <i>Sajanella monstrosa</i> (Willd.) Soják	2
26. <i>Seseli glabratum</i> Willd. ex Spreng.	7
27. <i>S. eriocarpum</i> (Schrenk) B. Fedtsch.	7, 13, 14
28. <i>S. abolinii</i> (Korovin) Schischk.	7, 10, 11+, 13
29. <i>S. buchtormense</i> (Fisch.) W.D.J. Koch	7, 14
30. <i>S. condensatum</i> (L.) Reichenb. f.	1, 2, 3, 6, 7, 8, 10, 14+
31. <i>S. grubovii</i> V.M. Vinogr. & Sancz.	7, 13, 14, 15
32. <i>S. mucronatum</i> (Schrenk) Pimenov & Sdobnina	14
33. <i>S. seseloides</i> (Fisch. & Mey. ex Turcz.) Hiroe	1+, 2, 3, 4, 5, 6, 7, 9+
34. <i>Oenanthe aquatica</i> (L.) Poir.	10
+ 35. <i>Oe. javanica</i> (Blume) DC.	10+
36. <i>Hansenia mongholica</i> Turcz.	1, 2
37. <i>Schulzia crinita</i> (Pall.) Spreng.	1, 2, 3, 6, 7
+ 38. <i>Foeniculum vulgare</i> Mill.	1+, 2+, 3+, 4+, 13+
+ 39. <i>Anethum graveolens</i> L.	3+, 4+, 13+
40. <i>Lithosciadium multicaule</i> Turcz.	1, 3, 4, 6, 7, 13
41. <i>L. kamelinii</i> (V.M. Vinogr.) Pimenov ex Gubanov	7
42. <i>Cnidium dauricum</i> (Jacq.) Turcz. ex Fisch. & Mey.	2, 3, 4, 5, 6, 7, 8, 9, 10
# 43. <i>C. salinum</i> Turcz.	2, 3, 4, 8, 9, 10, 11, 13
44. <i>C. monnieri</i> (L.) Spreng.	4, 9
45. <i>Stenocoelium athamantoides</i> (M. Bieb.) Ledeb.	6, 7
46. <i>Paraligusticum discolor</i> (Ledeb.) V.N. Tichom.	7
47. <i>Cenolophium denudatum</i> (Fisch. & Hornem.) Tutin	3, 7, 10, 14
48. <i>Pachypleurum alpinum</i> Ledeb.	1, 2, 3, 6, 7, 14+
49. <i>Conioselinum longifolium</i> Turcz.	1, 2+, 4+, 7+, 9, 10
50. <i>C. tataricum</i> Hoffm.	1, 2, 3, 4
51. <i>Angelica czernaevia</i> (Fisch. & Mey.) Kitag.	5, 9
52. <i>A. sylvestris</i> L.	6, 7+
53. <i>A. dahurica</i> (Fisch. ex Hoffm.) Benth. & Hook. f. ex Franch. & Sav.	2, 3, 4, 5, 9
54. <i>A. decurrens</i> (Ledeb.) B. Fedtsh.	1, 2, 3, 4+, 6, 7, 14

Continuation of the table 1

1	2
+ 55. <i>A. saxatilis</i> Turcz. ex Ledeb.	2+
56. <i>A. tenuifolia</i> (Pall. ex Spreng.) Pimenov	1, 2, 3, 4, 6, 7, 8, 10, 13+
57. <i>Ferula potaninii</i> Korovin ex Pavl.	14
58. <i>F. bungeana</i> Kitag.	5+, 8, 9, 10, 11, 12, 13, 14, 15, 16
59. <i>F. dissecta</i> (Ledeb.) Ledeb.	3, 6+, 7, 10+, 14+
60. <i>F. mongolica</i> (V.M. Vinogr. & Kamelin) V.M. Vinogr. & Kamelin	3, 7, 10, 14, 15
61. <i>F. feruloides</i> (Steud.) Korovin	7
+ 62. <i>F. caspica</i> M. Bieb.	7+, 14+
63. <i>F. dubjanskyi</i> Korovin ex Pavl.	7, 14
64. <i>Ferulopsis hystrix</i> (Bunge ex Ledeb.) Pimenov	2, 3, 4, 6, 7, 8, 9+, 10, 11, 13, 15
65. <i>Phlojodicarpus sibiricus</i> (Steph. ex Spreng.) Koso-Pol.	1, 2, 3, 4, 7+, 8, 9, 13+
66. <i>Ph. villosus</i> (Turcz. ex Fisch. & Mey.) Turcz. ex Ledeb.	1, 2, 3, 6+
# 67. <i>Peucedanum terebinthaceum</i> (Fisch. ex Trev.) Ledeb.	2, 4, 5, 9
# 68. <i>P. baicalense</i> (Redow. ex Willd.) W.D.J. Koch	1, 2, 3, 4, 5, 6, 7+, 8, 10
69. <i>P. falcaria</i> Turcz.	1+, 3, 4+, 6-8, 10, 11, 13-15, 16+
70. <i>P. vaginatum</i> Ledeb.	1, 2, 3, 4, 6, 7, 8+, 11+, 13+
71. <i>P. puberulum</i> (Turcz.) Schischk.	2, 3, 6, 8, 13
+ 72. <i>Pastinaca sativa</i> L.	1+, 2+, 3+, 4+
73. <i>Heracleum dissectum</i> Ledeb.	1, 2, 3, 4, 5, 6, 7, 9, 10, 11+, 13
74. <i>H. sibiricum</i> L.	1+, 2+, 3, 9, 13
75. <i>Saposhnikovia divaricata</i> (Turcz.) Schischk.	2, 3, 4, 5, 6, 8+, 9
+ 76. <i>Daucus carota</i> L.	1+, 2+, 3+, 4+, 5+, 6+, 7+, 10+, 13+

+ – newly added species and new distribution region since Gubanov's (1996) conspectus; # – new combination since Gubanov's (1996) conspectus.

(PE), Herbarium Institute of Botany, RAS (LE), and Tracy's Herbarium of Texas University, USA, as well as own data, were used for the present study. A total of over 2800 specimens collected by a number of scientists between 1867–2011, have been studied.

Results. Taking into account recent taxonomical treatments, names of some taxa are changed compared to Gubanov (1996), e. g., the genera *Kadenia* and *Kitagawia* are not accepted, and three more species are treated under other generic names. Besides, 11 species from 7 genera were added to the flora of Mongolia while occurrence of *Ferula gracilis* in was not confirmed. With all these changes, at the present time Apiaceae is presented in Mongolia by 2 subfamilies, 8 tribes, 11 subtribes, 39 genera and 76 species. Species distribution is summarized in table 1.

REFERENCES

- Grubov V.I.** Key to the vascular plants of Mongolia (with an atlas). – Leningrad: Nauka, 1982. – 443 p.
Gubanov I.A. Conspectus of flora of Outer Mongolia (vascular plants). – Moscow, 1996. – 136 p.

SUMMARY

The data on distribution of all 39 genera and 76 species of Celery family (Apiaceae Lindl.) currently known in Mongolia are presented.