

NEW ANGIOSPERMIC TAXA FOR THE FLORA OF BANGLADESH

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Abstract

This paper presents addition of 89 taxa under 64 genera distributed in 32 families for the flora of Bangladesh which are not included in the monumental works Flora of British India, Bengal Plants and Encyclopedia of Flora and Fauna of Bangladesh. Updated nomenclature, family name, references to the work and the precise localities have been furnished under each taxon.

Introduction

Bangladesh is a reservoir of plant resources comprising 3,611 angiosperm taxa occurring in the country (Ahmed *et al.*, 2007-2009). Despite several floristic studies were carried out over last four decades after the emergence of Bangladesh the botanical expedition throughout the country is yet to be completed. Hooker (1872-1897) and Prain (1903) made significant contribution on floristic studies in the Indian subcontinent and reported many species from the territory of present Bangladesh. Some regional flora of Bangladesh have also been produced by several workers (Heinig, 1925; Cowan, 1926; Raizada, 1941; Datta and Mitra, 1953; Sinclair, 1956).

In the recent past several authors paid attention to explore the flora of Bangladesh and recorded many taxa as new for the country. Mia and Khan (1995) published the first list of angiospermic taxa, not included in the Flora of British India (Hooker, 1872-1897) and Bengal Plants (Prain, 1903), adding a total of 325 species as recorded by several workers up to that time for Bangladesh. Rahman (2004a, b) added 138 angiosperm taxa to our knowledge on the flora of Bangladesh. Recently, Ahmed *et al.* (2007-2009) documented all species available in Bangladesh in the Encyclopedia of Flora and Fauna of Bangladesh adding several new angiosperm records for the country. After the momentous contribution made by Ahmed *et al.* (2007-2009) a large number of taxa have been added further, either as new records or as new taxa for the flora of Bangladesh. Therefore, the present study aimed at preparing a comprehensive checklist of all the new additions published either as new species or new records for the angiosperm flora of Bangladesh since Ahmed *et al.* (2007-2009).

Materials and Methods

This study was based on published works on new angiosperm records and new species for Bangladesh. All the relevant published papers and literature (Hooker, 1872-1897; Prain, 1903; Mia and Khan, 1995; Rahman, 2004a, b; Ahmed *et al.*, 2007-2009) have been consulted in order to update and finalize the newly reported taxa of Bangladesh. The new taxa are arranged in an alphabetical order and presented along with their updated nomenclature, family name, reference to the work and the precise locality.

Results

A total of 89 taxa under 64 genera belonging to 32 families have been added to the previous lists as new records or new species for Bangladesh. Despite some other new records or taxa

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identified for the flora of Bangladesh they are yet to be published and are not included in this paper. The taxa recorded here as new for the country are presented below.

1. **Alchornea mollis** Benth. *ex* Mull.-Arg. (Euphorbiaceae). Uddin *et al.* (2015d). p. 89. Moulvi Bazar: Srimangal, Harinchara.
2. **Allophylus samarensis** Merr. (Sapindaceae). Uddin *et al.* (2015c). p. 78. Moulvi Bazar: Madahbkundo Eco-park.
3. **Amorphophallus excentricus** Helt (Araceae). Ara and Hassan (2012). p. 18. Moulvi Bazar: Madahbkundo forest.
4. **Amorphophallus krausei** Engl. (Araceae). Ara and Hassan (2012). p. 18. Moulvi Bazar: Adampur beat, Kawargola forest; Lawachara reserve forest.
5. **Ancistrocladus tectorius** (Lour.) Merr. (Ancistrocladaceae). Uddin *et al.* (2015d). p. 90. Moulvi Bazar: Kamalganj, Lawachara National Park; Madahbkundo Eco-park.
6. **Argostemma sarmentosum** Wall. (Rubiaceae). Das and Rahman (2010). p. 216. Rangamati: Shubalong.
7. **Aristolochia coadunata** Back. (Aristolochiaceae). Uddin *et al.* (2015b). p. 69. Rangamati: Pharu reserve forest, Bilaichari.
8. **Aspidopteris tomentosa** (Bl.) Juss. (Malpighiaceae). Uddin and Hassan (2015). p. 35. Rangamati: Kaptai, Rampahar.
9. **Atalantia kwangtungensis** Merr. (Rutaceae). Uddin *et al.* (2015c). p. 79. Moulvi Bazar: Madahbkundo Eco-park.
10. **Begonia rubella** Buch.-Ham. *ex* D. Don (Begoniaceae). Uddin and Hassan (2015). p. 36. Rangamati: Kaptai, Sitapahar.
11. **Beilschmiedia sikkimensis** King *ex* Hook. f. (Lauraceae). Uddin and Hassan (2015). p. 38. Rangamati: Kaptai, Rampahar.
12. **Boehmeria aspera** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 2. Rangamati: Pharu reserve forest, Bilaichari.
13. **Boehmeria clidemioides** Miq. (Urticaceae). Uddin *et al.* (2015a). p. 3. East Bengal (CAL).
14. **Boehmeria hamiltoniana** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 5. East Bengal (CAL).
15. **Boehmeria manipurensis** Friis & Wilmot-Dear (Urticaceae). Uddin *et al.* (2015a). p. 6. Rangamati: Sapchari; Khagrachari: Gomoti, Panchari.
16. **Boeica filiformis** Clarke (Gesneriaceae). Uddin *et al.* (2015c). p. 81. Moulvi Bazar: Madahbkundo Eco-park.
17. **Brachycorythis obcordata** (Lindl.) Summerh (Orchidaceae). Hoque and Huda (2008). p. 193. Bandarban: Chimbuk.
18. **Catunaregam longispina** (Link) Tirveng. (Rubiaceae). Das *et al.* (2013). p. 258. Gazipur: Chandra forest; Habigonj: Chanbari, Rema-Kalenga Wildlife Sanctuary; Sherpur: Gajni forest.
19. **Chlorophytum nepalense** (Lindley) Baker (Liliaceae). Afroz *et al.* (2008). p. 193. Sherpur: Runctia sal forest.
20. **Colocasia virosa** Kunth (Araceae). Ara and Hassan (2012). p. 19. Moulvi Bazar: Muraichara beat, Ichachara forest.
21. **Colubrina javanica** Miq. (Rhamnaceae). Rahman *et al.* (2014). p. 199. Bagerhat: Sundarbans east forest division, Katka, near forest station.
22. **Cryptocarya calderi** M. Gangop. (Lauraceae). Uddin and Hassan (2015). p. 39. Cox's Bazar: Dulahazara safari park; Rangamati: Kaptai, Sitapahar.

23. **Cucumis hystrix** Chakravarty (Cucurbitaceae). Uddin *et al.* (2012). p. 205. Rangamati: Bilaichari, Pharua reserve forest.
24. **Cuphea carthagenensis** (Jacq.) J.F. Macbr. (Lythraceae). Hossain *et al.* (2015). p. 115. Sylhet: Lacatura; Shahjalal University of Science and Technology campus; Jaflong.
25. **Curcuma bakerii** Rahman & Yusuf (Zingiberaceae). Rahman (2012). p. 121. Tangail: Madhupur sal forest.
26. **Curcuma hookerii** Rahman & Yusuf (Zingiberaceae). Rahman (2012). p. 123. Chittagong: Barabkundu.
27. **Curcuma roxburghii** Rahman *et* Yusuf (Zingiberaceae). Rahman and Yusuf (2012). p. 80. Rangamati: Rangapani.
28. **Curcuma wallichii** Rahman *et* Yusuf (Zingiberaceae). Rahman and Yusuf (2012). p. 82. Maulvi Bazar: Srimongal, Lawachara rain forest.
29. **Curcuma wilcockii** Rahman *et* Yusuf (Zingiberaceae). Rahman and Yusuf (2012). p. 83. Tangail: Madhupur sal forest, Rasulpur; Sylhet: Tamabil.
30. **Dianella ensifolia** (L.) DC. (Liliaceae). Uddin and Hassan (2009). p. 181. Rangamati: Kaptai, Rampahar.
31. **Diospyros albiflora** Alston (Ebenaceae). Sultana *et al.* (2010). p. 249. Patuakhali: Mirjagong.
32. **Egeria densa** Planchón (Hydrocharitaceae). Alfasane *et al.* (2010). p. 210. Bandarban: Bogakain lake.
33. **Elatostema dissectum** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 7. Chittagong Hill Tracts: Mynimukh (CAL).
34. **Elatostema ellipticum** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 8. East Bengal (K).
35. **Elatostema griffithii** Hook. f. (Urticaceae). Uddin *et al.* (2015a). p. 9. East Bengal (K).
36. **Elatostema obtusum** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 9. East Bengal (CAL).
37. **Elatostema procridioides** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 11. East Bengal (CAL).
38. **Elatostema subincisum** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 12. Chittagong (CAL).
39. **Embelia parviflora** Wall. *ex* A. DC. (Myrsinaceae). Uddin *et al.* (2015e). p. 96. Moulvi Bazar: Juri forest range, Lathitilla forest beat.
40. **Galium pusillosetosum** Hara (Rubiaceae). Das *et al.* (2013). p. 259. Chittagong: Baluchara.
41. **Guazuma ulmifolia** Lam. (Sterculiaceae). Mia *et al.* (2011). p. 154. Noakhali.
42. **Gynura nepalensis** DC. (Asteraceae). Afroz *et al.* (2014). p. 101. Dhaka: Dhaka University Botanical Garden; Netrakona: Kendua.
43. **Helicteres viscida** Bl. (Sterculiaceae). Mia *et al.* (2011). p. 154. Chittagong: Jaldi Range, Bilaichori.
44. **Hemiorchis rhodorrhachis** Schum. (Zingiberaceae). Srivastava and Ghoshal (2005). p. 59. Chittagong Hill Tracts: Barkal.
45. **Hydrocotyle verticillata** Thunb. (Apiaceae). Khatun *et al.* (2010). p. 105. Dhaka: Azimpur.
46. **Ilex glomerata** King (Aquifoliaceae). Uddin *et al.* (2015d). p. 91. Moulvi Bazar: Lawachara National Park.
47. **Illigera khasiana** C.B. Clarke (Hernandiaceae). Uddin *et al.* (2015b). p. 70. Rangamati: Pharua reserve forest, Bilaichari.
48. **Laportea bulbifera** (Siebold & Zuccarini) Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 13. East Bengal (CAL).

49. **Lindera neesiana** (Wall. *ex* Nees) Kurz (Lauraceae). Ara and Khan (2015). p. 28. East Bengal (CAL).
50. **Litsea khasyana** Meissn. (Lauraceae). Ara and Khan (2015). p. 29. East Bengal (CAL, K).
51. **Litsea umbellata** (Lour.) Merr. (Lauraceae). Ara and Khan (2015). p. 29. East Bengal (CAL).
52. **Maytenus hookeri** Loes. (Celastraceae). Uddin and Hassan (2015). p. 40. Rangamati: Kaptai, Rampahar.
53. **Mitrephora grandiflora** Beddome (Annonaceae). Uddin and Hassan (2015). p. 42. Rangamati: Kaptai, Sitapahar.
54. **Mussaenda incana** Wall. *ex* Roxb. (Rubiaceae). Das and Rahman (2010). p. 217. Chittagong: Sitakunda, Eco-Park area; Moulvi Bazar: Srimongal, Bhanugach road.
55. **Mussaenda keenani** Hook. f. (Rubiaceae). Das *et al.* (2012). p. 22. Chittagong: Korerhat, Koila, Guichari; Rangamati: Kaptai, Rampahar, Madhabchari; Moulvi Bazar: Srimongal, Lawachora forest.
56. **Mycetia listeri** Deb. (Rubiaceae). Das *et al.* (2012). p. 23. Chittagong: Jamaichari; Rangamati: Kaptai, Rampahar.
57. **Mycetia malayana** (G. Don) Craib. (Rubiaceae). Uddin and Rahman (2015). p. 104. Chittagong: Dohazari, Lalutia; Moulvi Bazar: Madhabkundo Eco-park; Rangamati: Kaptai, Sitapahar west.
58. **Mycetia mukerjiana** Deb & Dutta (Rubiaceae). Das and Rahman (2010). p. 218. Rangamati: Kaptai, Sitapahar Wildlife Sanctuary.
59. **Mycetia sinensis** (Hemsley) Craib (Rubiaceae). Uddin and Rahman (2015). p. 107. Moulvi Bazar: Kamalganj, Lawachara National Park.
60. **Mycetia stipulata** (Hook. f.) O. Kuntze subsp. **macrostachya** (Hook. f.) Deb (Rubiaceae). Uddin and Rahman (2015). p. 108. East Bengal (K).
61. **Neodistemon indicum** (Wedd.) Babu & Henry (Urticaceae). Uddin *et al.* (2015a). p. 14. Moulvi Bazar: Madhabkundo Eco-park; Rangamati: Kaptai, Rampahar.
62. **Ophiorrhiza eriantha** Wight (Rubiaceae). Das *et al.* (2013). p. 260. Khagrachari: Shilchari, Alu tila.
63. **Ophiorrhiza fasciculata** D. Don (Rubiaceae). Das *et al.* (2012). p. 24. Chittagong: Dhopachari, Gondamara; Rangamati: Kutukchari, Chegaiya-chari.
64. **Oxyceros rugulosus** (Thwaites) Tirveng. (Rubiaceae). Das and Rahman (2010). p. 219. Chittagong: Hazarikhil; Cox's Bazar: Teknaf; Rangamati: Pablakhali; Sylhet: Jafflong.
65. **Pellionia heteroloba** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 16. East Bengal (CAL, K).
66. **Pellionia heyneana** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 17. Rangamati: Pharua reserve forest, Bilaichari.
67. **Pellionia repens** (Lour.) Merr. (Urticaceae). Uddin *et al.* (2015a). p. 18. Dhaka: Balda garden.
68. **Phenax mexicanus** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 19. Rangamati: Kaptai, Karnaphuli sadar beat; Pharua reserve forest, Bilaichari.
69. **Phyllanthus columnaris** Muell.-Arg. (Euphorbiaceae). Uddin and Hassan (2015). p. 43. Rangamati: Kaptai, Rampahar.
70. **Pilea anisophylla** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 20. East Bengal (K).
71. **Pilea bracteosa** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 22. East Bengal (K).

72. **Pilea insolens** Wedd. (Urticaceae). Uddin *et al.* (2015a). p. 23. East Bengal (K, CAL).
73. **Pollia thyrsoflora** (Bl.) Endley *ex* Hassk. (Commelinaceae). Uddin and Hassan (2015). p. 44. Rangamati: Kaptai, Sitapahar, Jamaichara.
74. **Psychotria stipulacea** Wall. (Rubiaceae). Das *et al.* (2012). p. 25. Rangamati: Kaptai, Sitapahar.
75. **Psydrax umbellata** (Wight) Bridson (Rubiaceae). Das *et al.* (2012). p. 26. Chittagong: Bomariaghona; Sylhet: Tamabil.
76. **Pulicaria vulgaris** Gaertn. (Asteraceae). Rahman *et al.* (2011). p. 205. Patuakhali: Galachipa.
77. **Pyrenaria diospyricarpa** Kurz (Theaceae). Uddin *et al.* (2015b). p. 71. Rangamati: Pharua reserve forest, Bilaichari.
78. **Sarcopyramis napalensis** Wall. (Melastomataceae). Uddin *et al.* (2015e). p. 98. Moulvi Bazar: Juri forest range, Lathitilla forest beat.
79. **Sida spinosa** L. (Malvaceae). Shetu *et al.* (2015). p. 111. Dhaka: Near Kafrul thana, Mirpur; Khulna: Khulna University campus.
80. **Spermocoe exilis** (Williams) Adams *ex* Burger *et* Taylor (Rubiaceae). Das *et al.* (2013). p. 261. Chittagong: Kumira, Dardorir chara; Cox's Bazar: Himchari, Bhangamura; Laksmipur: Ramgonj; Moulvi Bazar: Srimongal, Tea resort; Sylhet: Tibbi College campus.
81. **Staurogyne simonsii** (Anders.) O. Kuntze (Acanthaceae). Uddin *et al.* (2015e). p. 99. Moulvi Bazar: Juri forest range, Lathitilla forest beat.
82. **Sterculia urens** Roxb. (Sterculiaceae). Mia *et al.* (2011). p. 155. Chittagong.
83. **Stuednera gagei** Krause (Araceae). Ara and Hassan (2012). p. 20. Moulvi Bazar: Adampur beat, Gangpali.
84. **Tarenna helferi** (Kurz) N.P. Balakr. (Rubiaceae). Das and Rahman (2010). p. 220. Rangamati: Betbunia, Mahajan para; Moulvi Bazar: Srimongal, Lawachara forest.
85. **Tarenna stellulata** (Hook. f.) Ridl. (Rubiaceae). Das *et al.* (2013). p. 262. Chittagong: Sitakunda, Chandranath hill.
86. **Trigonostemon viridissimus** (Kurz) Airy Shaw (Euphorbiaceae). Uddin *et al.* (2015c). p. 82. Moulvi Bazar: Madahbkundo Eco-park.
87. **Vanilla havilandii** Rolfe (Orchidaceae). Uddin *et al.* (2015b). p. 73. Rangamati: Pharua reserve forest, Bilaichari, Monlovi chara.
88. **Xanthosoma undipes** (K. Koch) K. Kock (Araceae). Ara and Hassan (2012). p. 22. Gazipur: Kamesshor village.
89. **Zingiber salarkhanii** (Zingiberaceae). Rahman and Yusuf (2013). p. 240. Chittagong: Sitakundu, Chandranath hill; Khagrachari: Teen Tila, Marissa road, Moulvi Bazar: Srimongal, Lawachara reserve forest.

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