

条,鞘口斜截形,膜质,色较深,向顶部渐狭呈尾状,下面的一个鞘向顶部渐狭,但不呈尾状。苞片为秆的延长,钻状,一般短于花序;小穗1—2(—6)个,簇生,披针形,长6—8毫米,宽0.5—2毫米,具少数花;鳞片5—7片,下面的二列,最下面的3片鳞片内无花,最上面的一片有花而不育,自下而上形状为半圆形、宽卵形或长圆状卵形,长0.25—2毫米,褐色,膜质,无毛,有3条脉,顶端具直的短尖,愈下面的鳞片短尖愈长;雄蕊3;柱头3。小坚果未见。

产于广东、海南岛。生长在林中岩石上。

陈焕镛先生误把本种併入 *F. thouarsii* (Kunth) Merr. (即 *Arthostylis thouarsii* Kunth 原产于马加什以东的一个小岛,叫毛里求斯岛 Mauritius) 内,见中山大学农林植物研究所专刊(Sunyatsenia)五卷二十三页;我们认为是一个独立种。

系18. 两列鳞系 Ser. *Abildgaardia*

具叶。小穗一个,顶生,柱头3。小坚果倒卵形,有疣状突起,具子房柄。

46. 独穗飘拂草

Fimbristylis monostachya (Linn.) Hassk. Pl. Jav. Rar. (1848) 61; Hance in Journ. Linn. Soc. Bot. XIII (1873) 132; C. B. Clarke in l. c. XXXVI (1903) 240; Matsum. et Hayata, Enum. Pl. Formos. (1906) 484; Dunn et Tutch. Kwangt. & Hongk. in Kew Bull. Add. Ser. X (1912) 298; Hand.-Mzt. Symb. Sin. VII (1936) 1251; 侯宽昭等,广州植物志(1956) 751——*Cyperus monostachyus* Linn. Mant. II (1771) 180——*Abildgaardia monostachya* (Linn.) Vahl, Enum. Pl. II (1806) 296; Benth. Fl. Hongk. (1861) 389.

根状茎短。秆丛生,纤细,高15—35厘米。叶狭窄,长约为秆的1/2—2/3,宽0.5—1毫米,顶端急尖。苞片1—3枚,鳞片状,具有长约2—3毫米的短尖,最下面的一片有时为叶状;小穗单个,顶生,卵形、椭圆形或长圆状卵形,稍扁,长7—13毫米,宽约5毫米,下部的鳞片2列,上部的为螺旋状排列;鳞片宽卵形或卵形,长3—6毫米,黄绿色,有光泽,近于革质,背面有3条脉,中间1条比较明显,顶端延伸为短硬尖;雄蕊3;花柱三棱形,基部膨大,柱头3。小坚果倒卵形,三棱形,长约2毫米,有短柄,表面具明显的疣状突起。花果期6—9月。

产于福建、台湾、广东、海南岛、广西、湖南、云南等省区;分布于印度、菲律宾、日本、朝鲜、澳洲以及亚洲全部温暖地区。

47. 长柄果飘拂草

Fimbristylis longistipitata Tang et Wang, sp. nov.

具根状茎。秆丛生，纤细，高15—30厘米。叶狭线形，长约为秆的1/2或与秆等长，宽约0.5毫米，顶端渐尖。苞片鳞片状，2—3枚，顶端有较长的芒，芒上生有疏毛；小穗单个，顶生，卵形或长圆状卵形，长8—13毫米，宽约4毫米；鳞片宽卵形或长圆状卵形，长约4毫米，黄绿色，有褐色细点，有光泽，背面稍呈龙骨状突起，绿色，具3条脉，中间1条比较明显，顶端具短硬尖；雄蕊3，花柱三棱形，基部膨大，具缘毛，柱头3。小坚果扁圆形(不包括子房柄)，三棱形，长约1毫米，基部具稍长的柄，柄长1毫米多，有极稀疏的疣状突起。

产于广东。

ii. 刺子莞族——**Rhynchosporae** Nees

Nees in *Linnaea* IX (1834) 294, emend.

小穗的顶端或中部具一至少数两性花或单性花；鳞片螺旋状排列；或下部鳞片二列；下位刚毛存在或变为鳞片状，很少缺如；柱头2—3个。小坚果双凸状，三棱形或圆筒状，顶端一般无明显的喙，少有具明显的喙。

分 属 检 索 表

- 1(2) 柱头2。小坚果双凸状，顶端有明显的喙。秆三棱形[仅刺子莞 *R. rubra* (Lour.) Makino 的秆为圆柱状]；无匍匐根状茎…………… 8. 刺子莞属 **Rhynchospora** Vahl
- 2(1) 柱头3。小坚果三棱形或圆筒状，多数无明显的喙。秆圆柱状或扁；一般具匍匐根状茎。
- 3(10) 植株较高大，直立，具基生叶和秆生叶。花序松散，不聚集成头状；小穗的顶端或中部具2或较多的两性花或单性花。小坚果三棱形。
- 4(5) 根状茎极短。鳞片二列，最上面的鳞片内无花，花通常着生于小穗中部。小坚果呈镰刀形，三棱形…………… 9. 赤箭莎属 **Schoenus** Linn.
- 5(4) 根状茎较长。鳞片螺旋状排列，最上面的鳞片极不发育或缺如，花通常着生于小穗顶端或接近顶端。小坚果不为镰刀形。
- 6(7) 叶扁平，中脉显著，若无中脉，则为二列套褶。花序圆锥状，松散；雄蕊2，若为3个则秆扁。小坚果顶端具喙，有时喙不明显…………… 10. 克拉莎属 **Cladium** P. Browne

图版 XXXV 1—11. 华飘拂草 *Fimbristylis chinensis* (Benth.) Tang et Wang, 1. 植株×1; 2. 小穗×4; 3—9. 鳞片(自下而上)×20; 10 花的一部分×20; 11. 茎的横切面×5. 12—14. 知风飘拂草 *F. eragrostis* Hance, 12. 小穗×4; 13. 鳞片×20; 14. 小坚果×20. 15—18. 暗褐飘拂草 *F. fusca* (Nees) Benth., 15. 小穗×4; 16. 鳞片×10; 17. 小坚果×10; 18. 小坚果×20. 19—21. 滇飘拂草 *F. yunnanensis* C. B. Clarke, 19. 花序×4; 20. 鳞片×10; 21. 花×10.

versus attenuatae. Anthela decomposita multiradiata. Spiculae solitariae ovatae vel oblongo-ovatae subcompressae 3—6 mm longae 1.5—2.5 mm latae. Squamae inferiores 1—2 vacuae, reliquae fertiles, late ovatae glabrae circa 2.5 mm longae rubro-brunneae, costa media carinata apiculato-producta. Stamina 3. Stylus trigonus basi dilatata ciliatus, stigmata 3. Nux trigona obovata circa 0.7 mm longa albescens verruculosa.

Kwangtung: 北江, 清江, (Beijiang, qingjiang), roadside, 邓良, No. 9733, typus! VIII. 1934.

41. **Fimbristylis nanningensis** Tang et Wang, sp. nov.

Culmi graciles 18—55 cm alti basi plurifoliati. Folia linearia utrinque strigosa usque culmo breviora rarissime eum aequantia apicem versus attenuata. Bractee foliaceae inflorescentia multo longiores ad 1 mm latae strigosae apice acuminatae. Anthela decomposita laxiuscula multiradiata multispiculata, radii glabri graciles. Spiculae solitariae lanceolatae subcompressae circa 5 mm longae 1 mm latae 2—3-florae. Squamae oblongo-ovatae circa 3 mm longae membranaceae brunneo-punctatae apice acuminatae 2—3-nervulosae, nervus medianus subcarinatus. Stamina 3. Ovarium cylindricum leviter triquetrum albescens, stylus longus triqueter basi subdilatata, stigmata 3 usque irregulariter circinata.

Kwangsi: 南宁 (Nanning), grassy slope, Kwangsi expedition, No. 2858, typus! VII. 1953.

43. **Fimbristylis nanofusca** Tang et Wang, sp. nov.

Culmi caespitosi 5—13 cm alti. Folia radicalia linearia leviter curvata ciliata apice acuta circiter dimidium culmi aequantia 1—1.5 mm lata. Bractee 2 vel ultra foliaceae 5—18 mm longae circiter 1 mm latae hispidulae apice attenuatae. Anthela simplex vel subcomposita, radii pubescentes 1—3 cm longi. Spiculae solitariae terminales ovatae vel oblongo-ovatae compressae 4—5 mm longae circiter 1.5 mm latae. Squamae ovatae membranaceae 2.5—3 mm longae brunneae non-punctatae hispidulae dorso unicastatae, costa carinata apice in mucronam producta, inferiores 1—3 steriles paullo breviores longius aristatae. Stamina 3. Ovarium cylindricum triquetrum album, stylus circiter 2 mm longus basi dilatata pallide brunneus, stigmata 3. Nux triquetra obovata basi truncata brevissime stipitata pallide lutea vel albescens verruculosa.

Chekiang: 尖山 (Jianshan), hill-side, T. N. Liou, No. 586, typus! 6. VIII. 1930.
Series 17 **Chinenses** Tang et Wang, ser. nov.

Folia presentia vel absentia. Spiculae 1—12 fasciculatae vel capitatae. Stigmata 3. Nux ignota.

47. **Fimbristylis longistipitata** Tang et Wang, sp. nov.

Rhizoma presens. Culmi caespitosi graciles 15—30 cm alti. Folia anguste linearia circiter dimidium culmi aequantia vel eo aequilonga circa 0.5 mm lata apicem versus attenuata. Bractee 2—3 squamiformes apice longe aristatae, arista pubescens. Spicula singula terminalis ovata vel ovato-lanceolata 8—13 mm longa circiter 4 mm lata. Squamae late ovatae circa 4 mm longae luteo-virides brunneo-apiculatae nitidae viridi-carinatae dorso trinerviae, nervus medius conspicuior apice in cuspidem brevem productus. Stamina 3. Stylus triqueter basi dilatata ciliatus, stigmata 3. Nux oblata triquetra circiter 1 mm longa basi longe stipitata sparsissime verruculosa.

Hainan: H. Y. Liang, No. 63138, typus!

9. *Schoenus* Linn.

3. *Schoenus nudiffructus* C. Chen, sp. nov.

Radix fibrosa. Culmi caespitiosi erecti teretes tenues 55—100 cm alti 0.8—1.1 mm diametro laeves glabri sulcati basi sine vaginis foliorum emortuorum. Folia basilaria caulinaque linearia 1—2 mm lata supra laevia subtus elavatum 7-nervosa marginibus vix scabra, vaginae breves, cae foliorum basilarium apertae 1.5—2.5 cm longae basi ad 7 mm latae multicostatae, cae foliorum caulinarum clausae cylindricae 1.7—3 cm longae brunneae laeves sine ligula. Bractae foliaceae, ima longisissima latisissimaque, superiores breviores angustioresque, vaginae brunneae. Inflorescentia paniculata laxa, ramuli 6—7 vel ultra. Spiculae erectae lanceolatae compressae 7—9 mm longae usque 2—3 mm vel ultra in fasciculum congestae $\pm$ pedunculatae 6—7-squamatae 3—4-florae; squamae ovato-lanceolatae ad ovatae brunneo-rubrae marginibus fere albescentes dorso in carinam flavo-viridem elavatae, cae inferiores apiculatae et cae superiores obtusae, cae 2—3 inferiores vacuae et cae 3—4 superiores floriferae, flos summa usque sterilis. Stamina 3, antherae lineares. Stylus tenuis squamam superans, stigmata 3. Nux late ovata vel ovato-elliptica brunnescens 1—1.3 mm longa subtrigona erostrata, cellulae extimae hexagonae, apice albo-pilosa vel subglabra.

Yunnan: Kunming, alt. 1850 m., T. N. Liou, No. 16507, typus! 26. VII. 1946.

14. *Cyperus* Linn.

1b. *Cyperus digitatus* Roxb. var. *pinbienensis* L. K. Dai, var. nov.

A typo spicis angustioribus 5—12 mm latis, spiculis lanceolatis subcompressis brevioribus 3—6 mm longis 6—10-floris differt.

Yunnan: 屏边县 (Pingbian Xian), wet places, alt. 1500 m., C. W. Wang, No. 82189, typus! 29. IX. 1939.

1c. *Cyperus digitatus* Roxb. var. *laxiflorus* L. K. Dai, var. nov.

A typo spicis 4—8 mm latis, spiculis remotis oblique patentibus 4 mm longis compressis 4—6-floris, squamis lateribus albidis vel stramineis differt.

Yunnan: Fohai, forest glade, alt. 1800 m., C. W. Wang, No. 76288, typus! VII. 1936.

2c. *Cyperus exaltatus* Retz. var. *hainanensis* L. K. Dai, var. nov.

A typo anthela composita laxiore, spiculis remotis 3—4 mm longis 1 mm latis 6—8-floris, squamis fulvis differt.

Hainan: Lingao Xian, pond-side, 刘心祈, No. 1467, typus!

2d. *Cyperus exaltatus* Retz. var. *tenuispicatus* L. K. Dai, var. nov.

A typo anthela decomposita, spicis anguste cylindricis 2—4 cm longis 2.5—4 mm latis, spiculis spissioribus oblongis 2—3 mm longis 4—6-floris differt.

Kwangtung: without precise locality, 高蘊璋, No. 145, typus!

5. *Cyperus linearispiculatus* L. K. Dai, sp. nov.

Perennis. Radices fibrosae. Stolones breves. Culmi laxi caespitiosi graciles 12—15 cm alti obtuse trigoni basi tuberosa inferne foliati. Folia culmum aequantia vel superantia 2—4 mm