

的长过 1.1 厘米;小羽片 23—28 对,互生,有时基部的 1—2 对为近对生,下部的平展,上部稍向上斜升,具短柄,相距 1.8—2.5 厘米,长 8—12.4 厘米,宽 0.8—1.2 厘米,披针形或狭披针形,有时上部的微向上弯,顶部长渐尖,基部略为圆形,顶生小羽片分离,和下面的小羽片同形或稍长,具长约 0.8 厘米的小羽柄,叶缘通体具有规则的浅锯齿,顶端渐尖头,具三角形的锯齿。叶脉两面均不太明显,相距约为 0.6 毫米,一般为分叉或单脉,直行,顶端稍向上弯,达于锯齿的顶端;倒行假脉远超过孢子囊羣,长近于小羽片宽的 1/4。叶纸质,上面绿色,光滑,下面灰绿色,中肋及侧脉上生有不少棕色长鳞片。叶轴干时深褐色,光滑;羽轴干时淡褐色,光滑,下部粗约 3.5 毫米,顶端无翅。孢子囊羣线形或长圆形,长 1—1.5 毫米,彼此密接,距叶缘约 1 毫米,由 10—16 个孢子囊组成。

特产于云南南部(西双版纳)。

25. 美丽观音座莲

Angiopteris formosa Ching, sp. nov.

植株高 1 米以上。叶为二回羽状;羽片长圆形,长约 35 厘米,宽约 14.5 厘米,基部几不变狭,宽约 11.5 厘米,互生,羽柄长 2.8 厘米,基部膨大;小羽片约 10 对,互生,下部的相距约 2 厘米,上部的相距达 2.7 厘米,向上斜升,具短柄,除基部的二对外,其余的大小几相等,长 8.8—10.7 厘米,宽约 1.7 厘米,基部的稍小,长 6.5—7.5 厘米,宽 1.5—1.8 厘米,披针形,向顶端长渐尖,向上微弯,几成尾状,基部稍不等,上侧短楔形,或近圆形,顶生小羽片分离,和下面的小羽片同形,具长约 2 毫米的小羽柄,叶缘全部具有规则的钝锯齿,干时常稍内捲。叶脉上面不明显,下面明显,相距 1 毫米或稍阔,一般为分叉,顶端稍向上弯,倒行假脉超过孢子囊羣,长达小羽片宽的 1/2。叶草质,上面绿色,下面淡绿色。叶轴淡禾稈色,细瘦,光滑,羽轴和叶轴同色,但较细,粗约 2 毫米,向顶端略具狭翅。孢子囊羣长圆形,长约 1 毫米,彼此不密接,距叶缘约 0.7 毫米,由 6—8 个孢子囊组成。

特产于台湾。

26. 屋氏观音座莲

Angiopteris oldhamii Hieron. in Hedwigia LXI (1919) 265; C. Chr. Ind. Fil. Suppl. III (1934) 25.

植株高大,高达 1.8 米。叶柄粗逾拇指,叶广阔,二回羽状;羽片长 60 厘米,中部宽 18 厘米,长圆形,向基部稍变狭,柄长 1.5—2 厘米,羽轴棕禾稈色,光滑,向顶端无翅;小羽片 15—25 对,互生,有短柄,下部的渐短,水平开展,相距 1.4 厘米,向顶部的

brunnescente viridi, utrinque glabra vel saepe ad costas paleis parvis, rufis, filiformibus perparce conspersa, striis recurrentibus luce penetrante perspicuis, ultra soros progredientibus; soris contiguis, oblongis, a parte superiore basium usque ad basin cuspidis protensis, 1.2—1.4 mm a margine plano cartilagineo remotis, sporangiis 10—14.

Yunnan austr., Se-song-ban-nan, Ganlangpa, leg. T. L. Li, No. 2089, V, 20, 1953.

21. **Angiopteris megaphylla** Ching, sp. nov.

Planta ca. 2 m alta; lamina ampla, bipinnata; pinnis alternis, ad 50 cm longis, 30 cm latis, oblongis, rachillis gracilibus, ca. 2.5 mm crassis, viridis, glabris, exalatis; pinnulis 7-8-jugis, alternis, obliquis, petiolulatis (petiolulo 3 mm longo), 16.5—21 cm longis, 3.6—4.4 cm medio latis, late lanceolatis, deorsum paulo angustatis, basi 2.5 cm latis, oblique truncatis, apice in cuspidem ca. 1.5 cm longam 5 mm basi latam acuminatis, pinnulis inferioribus minoribus, apicalibus supremique saepe mediis parum majoribus vel similibus, pinnula terminali maxima, 5 cm vel ultra lata, petiolulo ca. 2 cm longo praedita, marginibus ubique regulariter minute serratis, dentibus minutis, deltoideis, obliquis, acutis; venulis subrecte patentibus, laxis, parte superiore ad marginem antrorsim curvatis, e basi aut supra medium furcatis aut rarius simplicibus, in dentes intransibiles, infra distinctis, supra vix notatis, striis recurrentibus distinctis, usque ad medium semifaciarum pinnularum raro ultra progredientibus; textura folii tenuiter herbacea, statu sicco viridi, utraque glaberrima; soris oblongis, 1 mm longis, a se distantibus, lineas irregulares continuas, vel rarius interruptas a parte superiore basium usque ad cuspidem occupantibus, fere 2 mm e margine plano remotis, sporangiis 8—12.

Yunnan austr., Se-song-ban-nan, Ganlangpa, under forest, alt. 650 m, leg. Koo Ying-ching No. 55.

24. **Angiopteris multijuga** Ching, sp. nov.

Planta 2 m vel ultra longa, stipite 2 cm crasso, brunnescente stramineo, glabro; lamina ampla, bipinnata; pinnis alternis, anguste oblongis, 55—72 cm longis, 16 cm latis, basin versus non abbreviatis, petiolo 1.5—1.8 cm longo, geniculo nigrescente brunneo, tumido praedito suffultis, rachillis 2—2.5 mm crassis, stramineis, exalatis; pinnulis 23—28-jugis, 2—2.5 cm inter se remotis, alternis vel jugis inferioribus oppositis, aliquot deflexis, sequentibus patentibus, supremis obliquis, breviter (ca. 1 mm) petiolulatis, mediis ca. 10—11 cm longis, 0.8—1.2 cm latis, lineari-lanceolatis, ad apicem acuminatam saepe leviter subfalcato-incurvatis, basi rotundatis, pinnula terminali lateralibus conformi sed parum majore, marginibus ubique minute serrulatis et in sicco saepe reflexis; venulis patentibus, rectis vel ad apicem versus paulo incurvatis, furcatis aut simplicibus, infra prominulis, supra vix notatis, striis recurrentibus pellucidis, ultra soros progredientibus; textura folii chartacea, supra pallide viridi, glabra, infra farinaceo-olivacea, ad costas venulasque paleis parvis rufis, filiformibus conspersa; soris linearibus, contiguis, secus marginem lineas continuas formantibus, parte apicale pinnularum sterili excepta, 1 mm e margine remotis, sporangiis 10—16.

Yunnan austr., Se-song-ban-nan, Yunnan Complex Expedition No. 5404.

25. **Angiopteris formosa** Ching, sp. nov.

Planta verisimiliter 1.5 m alta, stipite deest, rachide medio 3.5 mm crassa, straminea, glabra; lamina bipinnata; pinnis alternis, patentibus, oblongis, ca. 35 cm longis, 14.5 cm

medio latis, ad basin vix angustatis, petiolo potius gracili, supra geniculum nigrum vix 2 mm crasso, stramineo, rachillis ad apicem versus utroque latere anguste alatis; pinnulis in specimine 10-jugis, alternis, 2—2.7 inter se remotis, breviter petiolulatis, omnibus obliquis et similibus, infimis parum brevioribus exceptis, mediis 10 cm longis, 1.6 cm latis, lanceolatis, rectis vel ad apicem longe acuminatis saepe subfalcato-incurvatis, basi subaequaliter rotundocuneatis (antice obliquis, postice rotundatis), pinnula terminali aequali, marginibus obscure serrulatis vel subintegris, apice remote serratis; venulis patentibus, prominulis, e basi aut supra basin furcatis aut simplicibus, laxis, ad apicem leviter antrorsim curvatis; striis recurrentibus subtus distinctis, pellucidis, ultra soros usque ad medium semifacierum pinnularum progredientibus; textura folii herbacea, in sicco laete viridi, utraque glaberrima; soris oblongis, a se distantibus, 1 mm longis, sporangiis 6—8 compositis, 0.7 mm e margine plano remotis.

Taiwan, without locality, leg. *Tanaka*.

27. **Angiopteris late-marginata** Ching, sp. nov.

Planta ca. 2 m alta, stipite rachideque ad 2 cm diametro, pallide stramineis, glabris; lamina ampla, bipinnata; pinnis alternis, ad 75 cm longis, 16—22 cm medio latis, petiolo 4—5.5 cm longo, 4 mm crasso, stramineo vel brunnescente stramineo, glabro suffultis, rachillis non marginatis, ad apicem versus solum anguste alatis (ala ca. 0.5 mm lata); pinnulis ad 24-jugis, alternis, subpatentibus, 2.5 cm inter se remotis, omnibus similibus vel jugis inferioribus parum brevioribus, 10—11 cm longis, 1.8 cm latis, oblongo-lanceolatis, petiolulatis (petiolulo 1.5—2 mm longo), basi aequaliter rotundocuneatis, apicem versus in cuspidem 1 cm longam 2 mm latam contractis, marginibus dentato-serratis, dentibus deltoideis, obtusiusculis; venulis patentibus, furcatis vel simplicibus, intus marginem leviter antrorsim curvatis vel subrectis, apice incrassatis in dentes ingredientibus, utrinque prominulis, striis recurrentibus obsoletis, brevissimis, non ultra soros progredientibus; textura folii firmiter chartacea, in sicco pallide virescente, utrinque praeter costas venulasque inferne perparce squamuloso-palaceas glaberrima; soris linearibus, 2—2.5 mm longis, contiguis, sporangiis 20—22, 1.5 cm e margine plano remotis.

Yunnan austr., Se-song-ban-nan, Yunnan Complex Expedition No. 5405.

28. **Angiopteris subcuneata** Ching, sp. nov.

Planta ca. 2 m alta, stipite deest; lamina ampla, bipinnata; pinnis ad 70 cm longis, 24 cm medio latis, oblongis, basi vix angustatis, petiolo 9 cm longo, pallide stramineo, glabro, rachillis supra marginatis, ad apicem utroque latere anguste alatis; pinnulis 15-jugis, 4 cm inter se remotis, suboppositis, obliquis, inferioribus patentibus, vix abbreviatis, mediis 15 cm longis, 2.5 cm latis (supremis parum brevioribus), lanceolatis, caudato-acuminatis, basi cuneatis, longe petiolulatis (petiolulo 4 mm longo), margine plano minute et dense serrulatis; venulis subobliquis, densis, furcatis aut simplicibus, ad marginem antrorsim curvatis, supra notatis, infra prominulis, striis recurrentibus obsoletis, brevibus, usque ad soros progredientibus; textura folii herbacea, colore supra atro-viridi, infra pallidiore et ad costas paleis parvis, rufis filiformibus sparse oblecta; soris linearibus, 2 mm longis, contiguis, 1.5 mm e margine remotis, sporangiis 16—20.

Yunnan austr.-orient., Nan-chiao, alt. 1640 m, leg. *C. W. Wang* No. 75272, VI, 1936.

29. **Angiopteris cartilaginea** Ching, sp. nov.