

稍斜向上,相距 2.5 厘米,基部小羽片最短,长 5—7 厘米,短渐尖头,中部的长 10 厘米,顶部的长 12 厘米,顶端的一枚长 14 厘米,宽 1.5—1.7 厘米,披针形,渐尖头,基部近圆形,几相等,边缘有钝锯齿。叶脉几开展,二叉,少有单一,两面明显,纤细,向顶部弯弓,倒行假脉明显,长几达中肋。叶为草质,干后绿色,下面几无鳞片。孢子囊群长圆形,有孢子囊 12—14 个,彼此不密接,离平伏叶边约 1 毫米。

台湾特产。

27. 宽边观音座莲

Angiopteris late-marginata Ching, sp. nov.

植株高大。叶柄粗如拇指,干后淡棕色,光滑;叶宽广,二回羽状;羽片互生,长圆形,长达 75 厘米,中部宽达 16—22 厘米,羽柄长 4—5.5 厘米,向羽轴先端两侧有狭翅,宽约 0.5 毫米;小羽片达 24 对,相距约 2.5 厘米,中部以下的为互生,上部的几为对生,都有短柄,基部的略短,长 6 厘米,并略下向,中部的长达 11 厘米,宽 1.8—2.2 厘米,向上稍短,顶部的长仅 8 厘米,开展,长圆形,基部广楔形,先端为尾头,长约 8—14 毫米,边缘有钝锯齿,高约 0.5 毫米,三角形,斜向上。叶脉开展,单一或分叉,两面都明显,倒行假脉短而不明显,不超过孢子囊群。叶为厚纸质,绿色,两面光滑,仅中肋和细脉下面有棕色线形的鳞片疏生。孢子囊群线形,长 2—2.5 毫米,孢子囊 20—22 个,距平伏不育的边缘 1.5 毫米处着生,先端不育。

产于云南南部(西双版纳)。

28. 楔形观音座莲

Angiopteris subcuneata Ching, sp. nov.

叶柄未见;羽片长约 70 厘米,宽达 24 厘米,长圆形,羽柄长达 9 厘米,向羽轴先端两侧有狭翅,奇数羽状;小羽片 15 对,相距约 4 厘米,近对生,柄长达 4 毫米;基部的小羽片长 12 厘米,平展,中部的长达 15 厘米,宽达 2.5 厘米,上部的稍短,斜向上,披针形至长圆状披针形,基部广楔形,先端长渐尖,边缘有浅锯齿,高约 5 毫米,三角形,斜向上。叶脉开展,单一或分叉,下面明显,上面可见,倒行假脉短而不明显,不超过孢子囊群。叶为草质,干后上面黑绿色,光滑,下面草绿色,在中轴及细脉上有狭线形的棕色鳞片疏生。孢子囊群线形,长 2 毫米,有孢子囊 16—20 个,距平伏边缘 1 毫米处着生,先端不育。

产于云南东南部(南嶠)。海拔 1460 米,生沟中。

29. 厚边观音座莲

Angiopteris cartilaginea Ching, sp. nov.

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.