

具翅;小羽片 18—20 对,近水平开展,相距 1.5—2.5 厘米,略互生,几无柄,基部小羽片长 3.5—8 厘米,上部的小羽片长 14 厘米,宽 1.3 厘米,基部圆形,先端渐尖,边缘几为全缘,有小锯齿。叶脉开展,分叉或单一,上面可见,下面明显,不具倒行假脉。叶厚草质,上面黑绿色,下面暗绿色,中脉及细脉下面有棕色线形鳞片疏生。孢子囊群线形,密接,长 2 毫米,有孢子囊 14—16 个,不育而常反卷的边缘极狭,先端不育。

产于海南岛。也分布于越南、柬埔寨、缅甸及印度。

50. 狭羽观音座莲

Angiopteris angustipinnula Ching, sp. nov.

植株高大。叶柄粗达 2.5 厘米,干后棕色。叶二回羽状;羽片狭长圆形,长 76 厘米,宽 20 厘米,基部不变狭,羽柄长 4 厘米,棕色,羽轴向顶端无翅;小羽片 23 对,下部的平展,上部的斜向上方,相距 2.5—3 厘米,略互生,几无柄,基部小羽片长 7 厘米,上部的长 11 厘米,宽 9—11 毫米,基部截形,先端长渐尖,边缘有小锯齿。叶脉几水平开展,单一或分叉,下面明显,没有倒行假脉。叶厚草质,上面深绿色,下面棕绿色,中脉及细脉下面有棕色线形鳞片极疏生。孢子囊群长圆形,长 1.5 毫米,密接,有孢子囊 10—12 个,平伏不育的边缘极狭,先端不育。

产于云南(硯山)。生密林下,海拔 1200 米。

根状茎可食。

51. 屏边观音座莲

Angiopteris pingpiensis Ching, sp. nov.

植株高大,叶柄粗逾拇指。叶大,二回羽状,羽片长 70 厘米,中部宽 15—20 厘米,长圆形,羽柄长 2 厘米,羽轴褐棕色,向顶端无翅,光滑无鳞片;偶数羽状;小羽片 22—25 对,斜出,柄极短,下部的互生,相距 1.5 厘米,向上部略为对生,相距 2.5—3 厘米,顶端一对对生,向基部渐短,长仅 7—8 厘米,宽 1.4 厘米,渐尖头,几无柄,搭在羽轴上,中部的长 11—12 厘米,狭披针形,渐尖头,基部略为圆形,不对称,上侧截形,多少搭在羽轴上,下侧圆形,边缘全缘,顶部有疏矮钝锯齿。叶脉下面稍明显,上面隐约,单一或分叉,稍开展,没有倒行假脉。叶为厚纸质,上面绿色,下面灰绿色,几无鳞片。孢子囊群线形,密接,由 18—20 个孢子囊组成,靠近稍反卷的叶缘,自小羽片基部起向上分布达到渐尖头的基部。

产云南东南部(屏边县,大围山)。山谷河边,海拔 1200 米。

52. 有柄观音座莲 黑蕨筋(峨眉山)

Angiopteris petiolulata Ching, sp. nov.

latas formantibus, 1 mm e margine remotis.

Yunnan austr.-orient., Hokou, Ko-shiu, leg. *Tsai Ke-hwa* No. 409.

50. **Angiopteris angustipinnula** Ching, sp. nov.

Planta ad 2 m alta, stipite 2.5 cm diametro, sordide brunneo, subglabro; lamina ampla, bipinnata; pinnis ad 75 cm longis, 20 cm latis, anguste oblongis, ad basin versus vix angustatis, petiolo ad 4 cm longo, supra geniculum nigrescentem pallide stramineo, sursum non marginato; pinnulis ca. 23-jugis, sessilibus, inferioribus patentibus, parum vel vix abbreviatis, 2.5—3 cm inter se remotis, superioribus obliquis, mediis ad 11 cm longis, 9—11 mm latis, lineari-lanceolatis, ad apicem versus gradatim acuminatis, basi rotundo-truncatis, marginibus minute et dense serrulatis; textura firmiter herbacea, utrinque pallide viridi, ad costas squamulis rufis, filiformibus subtus sparse vestitis; venulis subrecto-patentibus, plerisque furcatis, rectis, infra distinctis, mesophyllo obscurioribus, supra notatis, striis recurrentibus nullis; soris contiguus, oblongis, ca. 1.6 mm longis, submarginalibus, sporangiis 10—12.

Yunnan austr., Yan-shan, Pie-shih-eih, alt. 1200 m, leg. *C. W. Wang* No. 84794, under dense forest. The swollen base edible.

51. **Angiopteris pingpienensis** Ching, sp. nov.

Planta ad 2 m alta, stipite incompleto, in specimine ad 1.5 cm crasso, fusco-brunneo, glabro; lamina ampla, bipinnata; pinnis alternis, subpatentibus, elongato-oblongis, ad 60 cm longis, 16 cm medio latis, inferioribus parum brevioribus, petiolo 3 cm longo, 5 mm crasso, stramineo, glabro suffultis; pinnulis 20-jugis, suboppositis, ca. 2 cm inter se remotis, sessilibus, inferioribus parum brevioribus, infimis 6—7 cm longis, patentibus vel subdeflexis, sequentibus gradatim majoribus, supremis 10 cm longis, 1.3—1.5 cm latis, e basi subrotundata lineari-lanceolatis, acuminatis, obliquis, margine integris, apice paulo serrulatis; venulis subpatentibus, furcatis aut simplicibus, mesophyllo obscurioribus, supra notatis, infra distinctis, ad marginem parum curvatis, striis recurrentibus nullis; textura folii herbacea, supra obscura, infra farinaceo-olivacea, ad costas praesertim basin pinnularum paleis parvis rufis filiformibus persparse oblecta; soris contiguus, oblongis, 1.7 mm longis, lineas continuas e basi usque ad apicem pinnularum occupantibus, margini proxime approximatis, sporangiis 16—18.

Yunnan austr.-orient., Ping-pien Hsien, by stream side, alt. 1200 m, leg. *H. T. Tsai* No. 55230, V, 19, 1934.

52. **Angiopteris petiolulata** Ching, sp. nov.

Species gregis *A. omeiensis* Ching, differt pinnulis magis longioribus, versus basin pinnarum plus minusve abbreviatis; margine acute serratis, basi longe petiolulatis, subcordatis, venulis laxioribus, basalibus vel saepe jugis inferioribus bis dichotome furcatis, soris margini proxime approximatis.

Szechuan, Omei Shan, vicinity of Pao-ko-sze, alt. ca. 800 m, as a medicine, leg. *Chu Chiao-yi* No. 468, VI, 13, 1956.

53. **Angiopteris longipetiolata** Ching, sp. nov.

Planta ad 2 m vel ultra alta, stipite deest, rachi 1 cm crassa, fusco-brunnea, glabra; lamina ampla, bipinnata; pinnis alternis, a rachi recte patentibus, 55 cm longis, 16 cm medio latis, anguste oblongis, longe petiolatis, petiolo 18—23 cm longo, 2.5 mm crasso,