

紋狀褶皺,單一或分叉,密接。葉脈叉狀分枝,兩面稍隆起,褐色,無毛,末回裂片有小脈1條。葉為薄膜質,干後褐色至綠褐色,無毛。葉軸及各回羽軸均全部有翅,翅的邊緣有極強度的褶皺。孢子囊羣多數,位於葉片上半部,着生於各個正常裂片頂端;囊苞卵形,長約1毫米,高大于寬,唇瓣深裂達到基部,全緣或先端有不明顯的波紋。

本種為四川西南部(天全、峨眉山)特產。生於冷杉林內,常附生於冷杉或杜鵑樹干上,與苔蘚混生,有時也生在溝中岩石上,海拔1800—2600米。

8. 長葉落蕨

Mecodium longissimum Ching et Chiu, sp. nov.

植株下垂,長30厘米以上。根狀莖纖細,絲狀,長而橫走,褐色,疏被短毛或幾光滑,下面疏生纖維狀的根。葉遠生,相距2—3厘米;葉柄長達10厘米,纖細如絲,褐色,光滑,無翅;葉片綫形至綫狀披針形,長達30厘米,寬約4厘米,兩端均稍狹,三回羽裂;羽片很多,常達30對以上,互生,有短柄,極斜向上,狹綫形,長3—10厘米,寬6—8毫米,密接而重疊;小羽片6—20對,互生,無柄,斜向上,長圓形,長4—6毫米,寬2—3毫米,先端鈍,基部下側下延,密接;末回裂片2—6個,互生,極斜向上,長圓形,長2—3毫米,寬約1毫米;圓頭,全緣或先端有淺缺刻,單一或分叉,通常互相重疊。葉脈叉狀分枝,兩面明顯隆起,褐色,光滑無毛,末回裂片有小脈1條。葉為薄膜質,干後褐色,無毛,葉片平直或稍呈褶皺。葉軸深褐色,無毛,下部有極狹的易脫落的翅,上部有稍呈褶皺的闊翅;羽軸全部有稍呈褶皺的闊翅。孢子囊羣極多數,位於葉片上部,通常着生於裂片腋間的短裂片頂端;囊苞卵形至長圓形,高大于寬,長約1.5毫米,圓頭,全緣,唇瓣深裂達到基部。

本種為雲南西北部(德欽、維西、大理)特產。生長在山地密林下陰濕的岩石上,海拔3000—3700米。

9. 綫葉落蕨

Mecodium lineatum Ching et Chiu, sp. nov.

植株高10—15厘米,直立。根狀莖纖細,絲狀,長而橫走,深褐色,疏被淺褐色的短節狀毛或幾光滑,下面疏生纖維狀的根。葉遠生,相距1—2厘米;葉柄長1.5—4厘米,纖細,絲狀,褐色,基部被淺褐色的節狀毛,其餘光滑,無翅或僅於頂端有短下延的狹翅;葉片狹綫形,長6—15厘米,寬1—1.5厘米,兩端漸狹,二回羽裂;羽片10—16對,互生,無柄,斜向上,長圓形至斜卵形,長6—10毫米,寬4—5毫米,先端鈍,基部下側下延,密接至彼此重疊,或稍遠離而其間隙寬2—3毫米;裂片6—8個,互生,極斜向上,長圓形,長1—3毫米,寬1—1.2毫米,圓頭或有時近截形至稍凹陷,全緣,單一或

16. **Hieriopteris yunnanensis** Ching, sp. nov.

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Species gregis *H. giganteae* (Wall.) Ching, differt textura folii herbacea, rachilla praesertim ad insertionem pinnularum primum pilis rufo-ferrugineis, stellatis, longioribus densissime vestita, pinnulis latioribus, segmentis basalibus abbreviatis et soris costae magis approximatis.

Yunnan austr., Ching-tung Hsien, Wu-liang Shan, alt. 1900 m, leg. *Hsu Wen-shiu* No. 6, V, 1954.

Mecodium Presl5. **Mecodium tenuifrons** Ching, sp. nov.

Rhizomate late repente, filiforme, subglabro; frondibus solitariis vel distantibus, stipite 7—10 cm longo, atro-olivaceo, nudo, tereti, exalato, supra medium anguste crispato-alato; lamina 20—34 cm longa, 4—6 cm lata, elongato-lanceolata, acuminata, basi parum vel vix angustata, tripinnata, rachi ubique alata, ala 1.2 mm lata, valde crispato-undulata; pinnis numerosis, alternis, laxis, a se distantibus, obliquis, 4—4.5 cm longis, 1.3 cm latis, late lanceolatis, acuminatis, sessilibus, infimis parum vel vix abbreviatis, ad alam planam rachillae pinnatifidis; pinnulis 5—8-jugis, cuneato-oblongis, ca. 7 mm longis, obliquis, a se distantibus, pinnatifidis vel irregulariter furcatis; segmentis ultimis 1.5—2 mm longis, 1 mm latis, apice rotundatis, margine planis, integris, uninerviis; texture membranacea, in sicco obscure viridi, glabra; soris in parte superiore frondis apices loborum acroscopicarum basaliu terminantibus, indusiis magnis, orbicularibus vel saepius depresso-orbicularibus, multo latiore quam lobis soriferis, usque ad basin fissis, valvis obscure viridibus, extus minute eroso-denticulatis, receptaculo incluso.

Yunnan sept.-occid., Salwin-Kiukiang Divide, 1900 m alt. leg. *T. T. Yu* No. 20576 (typus), XI, 8, 1938. Szechuan occid., without locality, leg. *E. H. Wilson* Nos. 5270, 5369.

6. **Mecodium propinquum** Ching et Chiu, sp. nov.

Terrestre, gregis *M. badii* (Hook. et Grev.) Cop. minor, indusiis minoribus, extus integris, brevissime stipitatis, foliis in sicco flavescente viridibus.

Rhizomate late repente; frondibus distantibus, stipite fusco-brunneo, parte inferiore tereti, exalato, supra medium usque ad pinna infimas late alato, ala ca. 1 m lata, sursum latiore, margine plana, vix leviter undulata; lamina 8—12 cm longa, 4—5 cm lata, oblonga, subobtusata, basi non angustata, tripinnatifida, glabra, membranacea, flavescente viridi, rachi vix flexuosa, utroque late alata, ala remote et valde crispato-undulata; pinnis 12—15-jugis, infimis vix abbreviatis, omnibus patentibus, sessilibus, ovatis, acutis vel subacuminatis; pinnulis infra apicem pinnatifidum 3—4-jugis, obliquis, contiguis, haud imbricatis, subflabellatim furcatis; segmentis ultimis 2—3 mm longis, 1 mm latis, linearibus, rotundatis, margine planis, integris, ala rachillae haud crispata; soris ad partem superiorem frondis restrictis, ibidem in apices segmentorum acroscopicarum fere omnium insertis, e apicibus loborum constrictarum productis, fere usque ad basin fissis, valvis rarius orbicularibus, saepius depresso-orbicularibus, quam longis latioribus et triplo quam lobis soriferis latioribus, margine integris, receptaculo incluso.

Yunnan bor.-occid., Likiang, vicinity of the city, 2000 m alt., leg. *R. C. Ching*, s. n. VII, 1943.

8. **Mecodium longissimum** Ching et Chiu, sp. nov.

Dense caespitosum, pendente. Rhizomate filiforme, ramosissimo, sparse rufo-piloso vel subglabro, stipite breve, 2—3 cm vel rarius ultra longo, tereti, fusco-brunneo, nudo, exalato; lamina 20—35 cm longa, ca. 3 cm lata, lineari, tripinnatifida, rachi filiformi, fusco-brunnea, glabra, anguste alato-marginata, ala versus basin evanescente marginata; pinnis numerosissimis, 4—6 cm longis, 8 mm latis, linearibus, erecto-obliquis, confertis, ad alam costae pinnatifidis; pinnulis 10—20-jugis, ca. 5 mm longis, obliquis, obtusis, pinnatifidis; segmentis 3—4-jugis, oblongis, 2—3 mm longis, 1 mm latis, margine planis, integris, apice rotundatis, vel saepius leviter emarginatis, omnibus partionibus frondis confertis, convolutis, alis rachidis costarumque remote crispato-undulatis; textura flaccida, membranacea, obscure brunnea, glabra; soris numerosis, ad partem superiorem frondis restrictis, ibidem segmenta omnia fere occupantibus, indusiis late ovatis, e basi conica productis, triplo quam segmentis soriferis latioribus, fere usque ad basin divisis, valvis integris, apice rotundatis, receptaculo incluso.

Yunnan bor.-occid., Upper Mekong, Teh-ching, Sze-chung, 3100—3300 m alt., leg. K. M. Feng No. 6403, VIII, 8, 1940.

11. **Mecodium stenochladum** Ching et Chiu, sp. nov.

Rhizomate filiforme, late repente, ramosissimo, intertexto, sparse rufo-hirto, stipitibus 4—5 cm longis, fusco-brunneis, juvenilibus fere usque ad basin anguste alatis, vetustis exalatis, teretibus, rigidis, uti tota planta glabra; lamina ovato-oblonga, 3—4.5 cm longa, 2.5 cm lata, apice subacuminata, obscure viridi, subtripinnata; pinnis 4—5-jugis, obliquis, a se remotis, sessilibus, basi ad rachidem primum anguste alatum aetate exalatum adnatis; pinnulis 3—4-jugis, obliquis, a se separatis, iterum pauci-pinnatifidis, segmentis bipartitis; lobis 1—2 mm longis, lanceolatis, ad apicem angustatam subacutis val subacuminatis, planis, integris; soris ad dimidiam partem superiorem frondis aggregatis, numerosis, indusiis elongatis, late lanceolatis, 2.4 mm longis, quam lobis soriferis duplo latioribus, ultra medium bilobis, valvis lanceolatis, acuminatis, basi ovatis, margine subintegris vel saepe remote serrulatis, receptaculo incluso.

Yunnan occid., Likiang, Mo-sze-chu, 2200 m alt., leg. K. M. Feng No. 433, III, 9, 1939.

13. **Mecodium lineatum** Ching et Chiu, sp. nov.

Rhizomate filiforme, late repente, ramosissimo, sparse rufo-piloso, ut stipite fusco-brunneo; frondibus distantibus, pendentibus, stipitibus setiformibus, 2.5—4 cm longis, teretibus, haud alatis; lamina 5—10 cm longa, 8—10 mm rarius ultra lata, lineari, apice obtusa vel subacuta, bipinnatifida, rachi ubique late alata, ala parum crispata; pinnis 20—35-jugis, obliquis, oblongis, contiguis, inferioribus parum abbreviatis, pinnatifidis; pinnulis infra apicem bifidum 3—4-jugis, obliquis, confertis vel imbricatis, omnibus profunde bifidis; lobis 1.5—2 mm longis, 1 mm latis, subrectangularibus, apice rotundatis, leviter emarginatis, plerumque praesertim juvenilibus convolutis, margine planis, integris; textura folii diaphana, membranacea, flavescente brunnea, glabra, rachi nigra, crassiore, flexuosa, costa nervisque rubro-brunneis; soris ad frondis tertiam partem superiorem restrictis, in lobis acroscopicis terminalibus, indusiis sat magnis, oblongo-ovatis, apice basique rotundatis, vix immersis, quam lobis soriferis non vel vix latioribus, profunde bilabiatis, labiis integris, receptaculo incluso.

Yunnan bor.-occid., Upper Mekong, Teh-ching, Sze-chung, 3400—3600 m alt., leg. K. M. Feng No. 5423, VII, 19, 1940.

15. **Mecodium wangii** Ching et Chiu, sp. nov.