

部为披针形,长19—28厘米,宽11厘米,下部为二回羽状分裂,中部向上突变狭,为一回羽状;基部的羽片近对生,上部互生,斜上,有短柄,中下部羽片6—7对为披针形,长8—11厘米,宽2—2.5厘米,一回羽状,向顶部为羽状分裂的渐尖头;小羽片8—10对,有短柄,对开式,扇形至长圆形,长0.8—1厘米,宽7毫米,基部楔形,下缘及内缘平直,上缘弧形,为2—4个浅缺刻中断,着生孢子囊群。上部羽片10—12对,几无柄,长圆形,长14—15毫米,宽7.9毫米。叶脉细,二叉分枝,两面可见。叶草质,干后呈灰绿色;叶轴圆,有狭沟,淡栗色至禾稈色。孢子囊群线形,为缺刻所中断;囊群盖膜质,灰棕色,宽0.5毫米,距叶边约0.5毫米。

产台湾及云南东南部(蒙自)。日本及琉球也有。

18. 两广陵齿蕨

Lindsaea liankwangensis Ching, sp. nov. — *Lindsaea orbiculata* var. *deltoidea* Wu in Bull. Dept. Biol. Sun Yatsen Univ. No. 3 (1932) 134, t. 52 — *Lindsaea chienii* Ching var. *deltoidea* Tagawa in Acta Phytotax. et Geobot. VI (1937) 37.

植株高达25厘米。根状茎短而横走,被棕红色的钻形鳞片。叶近生;叶柄长11—13厘米,下面圆形,暗栗色,有光泽,除基部被鳞片外,通体光滑;叶片三角形,长12—13厘米,宽7—11厘米,下部为二回羽状,上部为一回羽状;基部羽片近对生,上部互生,开展,有柄,柄长2—3毫米,下部羽片5对为披针形,长4.5—6厘米,宽1.2厘米,一回羽状,顶部为不分裂的阔而长的渐尖头;小羽片5—6对,几无柄,对开式,扇形至狭扇形,长6—8毫米,宽5—8毫米,基部楔形,下缘及内缘平直,上缘圆弧形,全缘,或稍呈波状,有1—4个浅缺刻,顶部具有阔的小羽片。上部羽片7—9对,有短柄,卵圆形至长圆肾形,长18—24毫米,宽8—10毫米,有一二缺刻。叶脉细,二叉分枝,下面明显,上面可见。叶草质,干后呈绿色;叶轴下面圆,淡栗色。孢子囊群长线形,连续不断,或偶为缺刻中断;囊群盖膜质,灰绿色,宽0.5毫米,距叶边约0.3毫米。

产台湾、广东及广西。日本及琉球也产。

19. 阔边陵齿蕨

Lindsaea recedens Ching, sp. nov. — *Lindsaea orbiculata* H. Ito, Fil. Jap. Illustr. (1944) t. 20.

植株高达30厘米。根状茎短而横走,被红棕色的钻形鳞片。叶近生;叶柄长13—20厘米,有四稜,暗栗色,有光泽,除基部被鳞片外,通体光滑;叶片三角形,长11厘米,宽9厘米,下部为二回羽状,上部为一回羽状;基部羽片近对生,上部互生,接近,开展,有短柄,柄长2毫米,下部羽片3对为长圆披针形,长6厘米,宽2厘米,一回羽

leg. *R. C. Ching* No. 5940, under woods, VI, 13, 1928. Yunnan, Mar-li-po, Bar-bu, under dense woods, leg. *C. W. Wang* No. 86578, II, 3, 1940.

15. ***Lindsaea taiwaniana*** Ching, sp. nov.

Species configuratione *L. commixtae* Tagawa proxime affinis, recedit pinnulis multo minoribus et indusiis e margine magis remotis.

Rhizomate breve, repente, paleis lineari-subulatis, atro-ferrugineis oblecto; frondibus numerosis, approximatis, stipite usque ad 21 cm longo, tenui, atro-castaneo, supra medium stramineo, tereti, supra anguste sulcato; lamina 9—11 cm longa, 7—8 cm basi lata, deltoidea, parte apicali simpliciter pinnata et in caudum linearem 5—7 cm longum 1.5 cm basi latum subito contracta; pinnis ca. 3-jugis inferioribus prolongatis, linearibus, distantibus, pinnatis, oppositis, basalibus majoribus, cauda terminali similibus, 4—6.5 cm longis, 1—1.5 cm latis, breviter petiolatis, patentibus vel parum incurvatim obliquis; pinnulis utroque 5-12-jugis, 6—7 mm longis, flabelliformibus vel rhomboideis cum margine inferiore et interiore rectis, exteriore aut anteriore rotundatis, integris, vel minutissime denticulatis, rarius 1-2-incisis; nervis utrinque notatis, textura folii herbacea, sat firma, colore in sicco obscure viridi; soris continuis rarius interruptis, indusiis angustatis, griseis, e margine magis remotis (margine exteriore quam indusio duplo latiore).

Taiwan, leg. *W. Hancock* No. 10 (typus), No. 128.

16. ***Lindsaea conformis*** Ching, sp. nov.

Species statura *L. tenerae* Dry., differt pinnulis fertilibus margine eroso-denticulatis, sterilibus acute dentatis, indusiis e margine magis remotis.

Rhizomate breve, repente, paleis lineari-subulatis, luteo-ferrugineis dense oblecto; frondibus numerosis, approximatis, stipite usque ad 22 cm longo, tenui, rufo-brunneo vel sursum stramineo, nitido, infra tereti, supra sulcato; lamina 9—16 cm longa, 6—10 cm basi lata, elongato-deltoidea, acuminata, bipinnata infra apicem acuminatum pinnatifidum; pinnis pinnatis, 5-7-jugis, obliquis, oppositis vel subalternis, basalibus majoribus, 4—7 cm longis, late lanceolatis, acutis, breviter petiolatis; pinnulis 6-12-jugis, contiguis, 4—6 mm longis, flabelliformibus vel dimidiato-rhomboideis, latere inferiore interioreque rectis, superiore exterioreque lobato-incisis, lobulis vix 2—3 mm longis et latis, margine eroso-denticulatis vel in foliis sterilibus acute grosso-dentatis; soris 2—3 pro pinnula vel uno pro lobulo, venas 2—5 occupantibus, indusiis angustatis, griseis, e margine magis remotis.

Kwangtung, Tsung-hwa Hsien, Sam Kok Shan, leg. *W. T. Tsang* No. 24950, III, 1—16, 1936.

19. ***Lindsaea liankwangensis*** Ching, sp. nov.

Lindsaea orbiculata var. *deltoidea* Wu, Pong et Wong in Bull. Dept. Biol. No. 3 (1932) t. 58—*L. chienii* var. *deltoidea* Tagawa in Acta Phytotax. et Geobot. VI (1937) 37.

Rhizomate breve, repente, paleaceo; frondibus approximatis, stipite 12 cm longo, atropurpureo, infra tereti, supra plano, marginato; lamina 10—12 cm longa basi lata, deltoidea, acuminata, bipinnata infra apicem acuminatum pinnatifidum; pinnis ca. 10-jugis, patentibus, breviter petiolatis, alternis vel suboppositis, inferioribus 4-5-jugis, pinnatis, distantibus, superioribus simplicibus, approximatis, infimis longioribus, 5—6 cm longis, 1.2—1.5 cm latis, lanceolatis, infra lobum apicalem deltoideo-acuminatum sat magnum indivisum pinnatis; pin-

nulis utroque 5-6-jugis, flabellato-cuneatis, 5—7 mm latis, liberis, contiguis, margine minute crenulatis; nervis flabellatim furcatis, laxis, utrinque notatis; pinnis sequentibus gradatim abbreviatis, supremis indivisis, 1—2 cm longis, ovatis, basi inferiore valde recurvatis, superiore rectis et rachin tangentibus; textura folii herbacea sat firma, colore in sicco viridi, rachi castanea, quadrangulari, costa pinnarum gramineo-viridi; soris secus marginem exteriorum lineas continuas vel interdum interruptas occupantibus, indusiis angustatis, pallidis, marginem fere attingentibus.

• Kwangtung, In-tak, Tsing-shiu Shan, *Hsu Hao Shiang* No. 00813 (1956). Also Kwangsi (Yao Shan).

20. **Lindsaea recedens** Ching, sp. nov.

Species configuratione et dimensione *L. chienii* Ching valde similis, differt minor, pinnulis acute denticulatis et indusiis angustioribus, e margine magis remotis.

Rhizomate breve, repente, ut basi stipitis dense paleaceo; frondibus numerosis, approximatis, stipite gracili, usque ad 20 cm longo, quadrangulari, castaneo aut brunneo-stramineo, nitido; lamina 10—12 cm longa, ad 10 cm basi lata, deltoidea, acuminata, bipinnata, sursum simpliciter pinnata; pinnis patentibus, breviter petiolatis, inferioribus 2-4-jugis pinnatis, sequentibus 5-7-jugis simplicibus, infimis majoribus, 4—5 cm longis, 1.5—1.8 cm latis, lanceolatis, acuminatis, infra apicem acuminatum remote incisum pinnatis; segmentis 4-7-jugis, 6—8 mm longis, flabellato-cuneatis, vel dimidiato-rhomboides, margine pauci-incisis, lobulis 2—4, margine acute dentatis; nervis flabellatim furcatis, utrinque potius obscuris; pinnis sequentibus simplicibus, gradatim abbreviatis, supremis trapeziformibus, 1—1.5 longis, 8 mm latis, obtusis; textura folii herbacea, viridi, rachi castanea, nitida, rachilla gramineo-viridi; soris 2—4 pro pinnula, vel 5—7 pro pinna, 3—5 venas occupantibus, indusio angusto, griseo, e margine segmentorum magis remoto.

Fukien, without locality, leg. *Ling Lai-kuan* No. 197 (typus); Tsun-an Hsien, Wu-i Shan, leg. *P. S. Chiu* No. 1080.

23. **Lindsaea yunnanensis** Ching, sp. nov.

Rhizomate breve, repente, dense paleaceo, paleis minutis, rufescentibus, lineari-lanceolatis; frondibus subcaespitosis, stipite usque ad 20 cm longo, atro-castaneo, subquadrangulari, supra basin glabro; lamina 14—17 cm longa, basi 14—18 cm lata, deltoidea, acuminata, pinnata, basi latissima bipinnata excepta; pinnis lateralibus infra apicem acuminatum lobato-pinnatifidum ca. 10-12-jugis, patentibus, breviter petiolatis, alternis, jugis basalibus longioribus, ad 9 cm longis, 2.5 cm latis, lanceolatis, acuminatis, in segmenta 1-6-juga ca. 1 cm longa et lata, libera subrotundata vel dimidiato-subrhomboides infra apicem sat latum crenato-lobulatum pinnata; pinnis ceteris omnibus simplicibus, infimis 4—5 cm longis, 1—1.5 cm latis, trapeziformibus, longe acuminatis, margine latere interno superiore recto rachim tegente, inferiore recurvato, integro et superiore recto 4-5-inciso; lobulis vix 1 mm longis, 3—5 mm latis, recte truncatis, margine integris vel undulatis; pinnis supremis 1.5—2 cm longis, oblongis, obtusis, contiguis; nervis liberis, flabellatim furcatis, utrinque obscuris; textura folii herbacea, colore sicca obscure viridi, glabra; rachi castanea, quadrangulari; soris secus marginem superiorem 5—6, inferiorem 3—4, uno pro lobulo, inferioribus longioribus, 4—5 venas et superioribus brevioribus, 2—3 venas occupantibus, 2—5 mm longis, indusio angusto, lineari, marginem attingente, leviter