

NEW SPECIES AND COMBINATIONS OF LAURACEAE FROM THAILAND

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During the work with the family Lauraceae for Flora of Thailand, a considerable number of undescribed taxa were discovered. Some of these have been published elsewhere, viz. *Dehaasia kerrii* and *D. longipetiolata* in Bot. Jahrl. Syst. 93 (3) : 444, 462, 1973; *Alseodaphne birmanica* and *A. siamensis* in Candollea 28 (1) : 102, 129 1973.

Most of the taxa described below will be illustrated in the coming treatment in Flora of Thailand. The author is deeply indebted to the Danish Carlsberg foundation for a grant which made it possible to have Mr. Bent Johnsen to undertake the drawings.

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Actinodaphne amabilis Kosterm., *spec. nov.*

Arbor, ramulis gracilis dense minute sub-lanuginosis, ramulis innovationibus dense griseo-lanuginosis, foliis juvenilis dense albo-lanuginosis, adultis chartaceis, anguste lanceolatis acuminatis basi acutis, supra nitidis laevis nervo mediano prominulis, basin exceptis, costis filiformis prominulis, subtus glaucis sub-laevis nervo mediano prominentibus costis gracilis prominulis erecto-patentibus vel sub-erectis, petiolis gracilis longis, infructescentiis nodis impositis parvis tomentellis, umbellulis sessilibus, pedicellis gracilis longis pilosis, fructus globosis sub-depressis, cupulis tenuis cupuliformibus.

Typus: Kerr 16931 (K).

NORTHEASTERN, Loei, Phu Kradung, alt. 1300 m, ster., SØRENSEN & AL. 6231 (C), the tomentum somewhat shorter and rusty. PENINSULAR. Ranong, Khao Phota Luang Kaeo, alt. 1000 m, Febr., fr., KERR 16931 (BM, K).

* Herbarium Bogoriense, Bogor, Indonesia.

Actinodaphne perglabra Kosterm., *spec. nov.*

Arbor (?) in omnibus partibus glabris, ramulis gracilis, foliis sub-verticillatis vel alternantibus oblongis breve vel longe acuminatis basi acutis utrinque nitidis et dense minutissime prominule reticulatis, supra nervo mediano gracile prominente costis filiformis, subtus pallidioribus nervo mediano gracile prominente costis filiformis erecto-patentibus vix prominulis, petiolis gracilis brevis, umbellulis pedunculatis ad internodis solitariis vel duabis ramulis brevissimis impositis, pedunculis brevis gracilis, bracteis umbellularum glabris.

Typus: Put 4323 (K)

EASTERN, Nakon Ratchasima Lat Bua Khao, Nov., buds, PUT 4324 (BM, K) and 4308 (K).

Beilschmiedia inconspicua Kosterm., *spec. nov.*

Arbor vel frutex ramulis gracilis glabris, foliis alternantibus rigide chartaceis glabris utrinque nitidis et minute sat laxe prominule reticulatis subobovatis usque ad sublanceolato-obovatis usque ad ellipticis brevissime late acuminatis basi acutis, supra nervo mediano gracile prominulis basin versus sub-impressis costis filiformibus, subtus nervo mediano prominente costis gracillimis prominulis erecto-patentibus, petiolis gracilis, racemis brevissimis, bracteis sat grandis caducis, pedicellis glabris, tepalibus anguste ovatis acutiusculis glabris, staminibus glabris tepalibus brevioribus, antheris anguste ovatis acutis, inflorescentis ante anthesis bracteis parvis sub-sericeis omnino obtectis, infructescentibus brevis non ramosis monocarpis fructus ellipsoideis.

Typus: Larsen, Santisuk & Warncke 3141 (AAU).

EASTERN, Pak Thong Chai ("Trend Camp"), E. part of Khao Yai Nat. Park, alt. 500 m, undershrub of 2 m, Aug., fl., LARSEN, SANTISUK & WARNCKE 3141 (AAU, C), distributed as LINDERA. Southeastern: Trat, Kho Chang, Febr., fr. green, THAWORN 16 (C).

Beilschmiedia velutionsa Kosterm., *spec. nov.*

Frutex vel arbor, ramulis dense minutissime pallide ferrugineo tomentellis, foliis alternantibus chartaceis obovato-ellipticis usque ad ellipticis subcaudato-acuminatis basi acutis vel sub-obtusis, utrinque

sat dense minute prominule reticulatis, supra glabra nitida nervo mediano gracile impressis costis filiformis sub-prominulis, subtus sat dense vel sat laxe tomentellis nervo mediano prominentibus costis gracilis erecto-patentibus prominulis, petiolis bene evolutis dense tomentellis, paniculis angustis sat paucifloris dense griseo-vel rufo-brunneo tomentellis foliis brevioribus pauci ramosis, tepalibus aequalibus ovatis obtusis vel acutis sat coriaceis pilosis, staminibus sub-brevioribus, antheris grandis ovatis acutis, filamentis latis, glandulis basalibus grandis breve stipitatis, staminodiis grandis sagittatis vel cordatis subsessilis, ovario glabris, stylo aequilongis. Fructus ellipsoideo-clavatis.

Typus: Winit 1711 (K)

NORTHERN, Muang Kong Chiang Dao, alt. 900 m, May, fls. pale yellow, KERR 5532 (K); Lampang Mae Pheng, alt. 120m, shrub 2-5 m, June, fls. yellowish, WINIT 1711 (K).

Belischmiedia villosa Kosterm., *spec. nov.*

Arbor, ramulis dense minutissime tomentellis, ramis griseis sulcatis lenticellatis, foliis sub-oppositis et alternantibus coriaceis ellipticis obtusis vel apiculatis basi acutiusculis, supra nitidis prominente laxe minute reticulatis nervo mediano gracile prominulis basin versus latioribus applanatis usque ad sub-impressis costis filiformis prominulis, subtus opacis dense minutissime reticulatis et sat dense minute tomentellis nervo mediano prominentibus costis erecto-patentibus gracilis prominulis, petiolis pilosis, racemis axillaris brevis minutissime dense griseo pilosis, bracteis caducis, tepalibus anguste ovatis acutis villosus, filamentis gracilis villosis, antheris anguste ovatis acutis pilosis, glandulis parvis sessilis, staminodiis et staminibus interioribus tantum abortivis, ovario subglobosis stylo aequilongis.

Typus: Hansen & Smitinand 12753 (AAU).

NORTHERN: Mae Hong Son, Pang Mapha, 19°32' N, 98°13' E, alt. 600 m, fls. yellowish, slightly scented, HANSEN & SMITINAND 12753 (AAU, BKF, C, E, K, L, P).

Cinnamomum crenulicupulum Kosterm., *spec. nov.*

Arbor, ramulis glabris, innovationibus parris sparse minutissime sertceis, foliis oppositis coriaceis glabris ellipticis conspicue acuminatis basi anguste cuneatis in petiolum longum decurrentibus, supra nitidis laevis costis tres principalis prominulis, subtus opacis laevis nervo mediano prominentibus costis duabus basalibus prominentibus acumen foliorum attingentibus venis secundariis numerosis parallelis horizontalis obscuris, paniculis vel racemis brevis apicem versus minute sparse sericeis, fructus ellipsoideis vel sub-ovoideis, cupulam obconicis margine truncato-serratis.

Typus: Kerr 6583 (K)

NORTHERN: Chiang Mai, Doi Chiang Dao, alt. 1800 m, open evergreen forest, tree 4 m, June, buds, KERR 5561 (BM, K); *ibid.*, alt. 2000 m, tree 10 m, scattered on limestone ridge, Nov., immature fr., SMITINAND & ROBBINS 7816 (C); *ibid.*, alt. 1900 m, tree 5 m, open evergreen, rocky, strongly aromatic, Dec., fr., KERR 6583 (BM, K).

Cinnamomum rosiflorum Kosterm., *spec. nov.*

Frutex, ramulis gracilis laevis, sub-glabris, foliis plerumque oppositis coriaceis glabris subovato-ellipticis vel ellipticis vel sub-lanceolatis parvis acumen longis basi brevissime cuneatis, supra nitidis laevis costis sub-basalibus prominulis, subtus glaucis laevis vel obscure scrobiculatis nervo mediano gracilis prominulis costis sub-basalibus acumen foliorum attingentibus filiformis prominulis nerviis secundariis obscuris horizontalis, petiolis longis gracilis axillaris, racemis per-paucis minutissime sericeis, floribus dense griseo-sericeis, tubo gracilis obconicis in pedicellis obconicis sensim transeuntibus, tepalibus equalibus rigidis ovatis acutis, antheris ovatis, filamentis gracilis aequi-longis pilosis, staminodiis parvis acutis, ovario ellipsoideis, stylo crassis obconicis, stigmatibus truncatis, fructus ellipsoideis, cupulis margine tenuis undulatis, pedicellis crassis obconicis.

Typus: Kerr 16961 (K)

PENINSULAR: Ranong, Kapoe, alt. 10 m, tube pinkish, with limb pink, in scrub, Jan., KERR 16711 (K); *ibid.*, Khao Phota Luang Kao, alt. 1300 m, shrub 2 m, open evergreen ridge, Febr., fl., KERR 16961 (K, BM).

Might be a stunted form of *C. SUBAVENIUM*.

Cryptocarya albiramea Kosterm., *spec. nov.*

Arbor, ramulis glabris laevis nitidis griseo-albis apice angulatis et dense minutissime ferrugineo-pilosis, foliis coriaceis ellipticis usque ad subovato-ellipticis brevissime acuminatis basi acutis, supra nitidis glabris laevis vel obscure minutissime reticulatis nervo mediano angustis impressis costis filiformis plerumque prominulis in sulcis, subtus albo-glaucis minutissime laeviter reticulatis glabrescentis nervo mediano prominentibus costis erecto-patentibus prominentibus arcuatis nerviis secundariis obscuris, petiolis glabris profunde canaliculatis, paniculis multifloris angulatis et pustulatis dense minutissime subadpresse pilosis, tepalibus ovatis acutis, filamentis pilosis, glandulis breve stipitatis, staminodiis elongatis triangularis, fructus immaturus anguste subovoideo-ellipsoideis.

Typus : Kerr 18815 (K)

PENINSULAR : Krabi, Tambon Khao Phanom, alt. 100 m, April, fl., KERR 18815 (BM, K); Chawang, Nakhon Si Thammarat, common, March, fls. white, THAWORN 756 (C); Chumphon, Langsuan Pang Wan, alt. 200 m, Febr. fr., KERR 11955 (BM, K).

Cryptocarya chanthaburiensis Kosterm., *spec. nov.*

Arbor vel frutex, ramulis sat gracilis dense minutissime ferrugineo sub-lanuginosis, foliis coriaceis ellipticis breviter acuminatis basi acutis, supra nitidis laevis nervo mediano valde impressis, subtus opacis minutissime sparse adpresse pilosis et obscure minutissime laeviter reticulatis nervo mediano prominentibus costis gracilis erecto-patentibus arcuatis prominulis, petiolis brevis canaliculatis, paniculis pseudo-terminalis multifloris dense minutissime sericeis, fructus immaturus ellipsoideis laevis.

Typus : Kerr 17846 (K).

SOUTHEASTERN : Chanthaburi, alt. 600 m, Dec., fl., KERR 17846 (BM, K); Krat, Khao Kuap, alt. 500 m, Dec., fr., KERR 17712 (BM, K); Si Racha, Nong Nam Khio, alt. 250 m, Khao Phee, Nov. fr., COLLINS 1421 (K).

Cryptocarya lecomtei Kosterm., *spec. nov.*

Cryptocarya caesia Auct. (non Blume) Lecomte in Nouv. Arch. Mus., Paris 5,5:96.1913; Fl. Indoch. 5:146.1914; Kostermans, Bibl. Laur. 390.1964 (sub *C. caesia* Bl.).

Arbor, ramulis gracilis dense minutissime ferrugineo sub-lanuginosis, foliis chartaceis lanceolatis usque ad subovato-ellipticis breviter acuminatis basi sub-cuneatis, supra laevis, nervo mediano impressis (basi exceptis) pilosis costis filiformis obscuris, subtus glabrescentibus nervo mediano prominentibus exceptis, obscure reticulatis, costis erecto-patentibus filiformis prominulis marginem versus arcuatis, paniculis gracilis multifloris minutissime dense flavido-brunneo sub-lanuginosis, pedicellis brevis, tubus urceolatis.

Typus : Nakkarn 206 (C).

SOUTHEASTERN, Chanthaburi, Si Racha, Jan., Fl. NAKKARN 206 (C).

Cryptocarya oligoneura Kosterm., *spec. nov.*

Arbor, ramulis gracilis minutissime obscure sericeis, foliis rigide coriaceis anguste oblongis usque ad anguste ellipticis breve acuminatis basi acutis, supra nitidis laevis nervo mediano impressis costis obscuris, subtus opacis minutissime laeviter reticulatis nervo mediano prominentibus costis paucis sat erectis gracilis prominulis, petiolis gracilis bene evolutis, infructescentiis foliis brevioribus minutissime sat laxe adpresse pilosis, fructus ellipsoideis laevis.

Typus : Thaworn 258 (C).

PENINSULAR : Nakhon Si Thammarat, May, fr., THAWORN 258 (C).

Cryptocarya pallens Kosterm., *spec. nov.*

Arbor, ramulis glabris apice minutissime sericeis, foliis coriaceis glabris oblongis vel raro ellipticis obtusis vel apiculatis basi acutis, supra nitidis laevis vel obscure laeviter minute reticulatis nervo mediano gracilis impressis (parte basalibus latioribus exceptis) costis filiformis obscuris sub-impressis, subtus pallidis plerumque griseo-albis laevis

usque ad obscure minutissime laeviter reticulatis nervo mediano prominentibus costis sat erectis prominulis nerviis secundariis obscuris, petiolis longis, paniculis axillaris multifloris minutissime sat sparse pulverulente sericeis, tepalibus anguste ovatis, fructus subovoideo-ellipsoideis laevis vel obscure costatis.

Typus: Put 3767 (K).

NORTHERN: Chiang Mai, Doi Angka, alt. 1320 m, Mae Ka Pak drainage, June, fr., GARRETT 1146 (K); *ibid.*, April, fl., PUT 3767 (BM, K); Pang Ton, April, after anthesis, PUT 3814 (BM); Lampang, Chae Son, alt. 1000 m, Febr., fr., KERR 4767 (BM, K), "Mak ki ai"; *ibid.*, Jan., fr., KERR 4746 (BM, K); Phetchabun, Dan Sai, Khao Kheo Kang, alt. 1300 m, April, after anthesis, KERR 5791A (K); *ibid.*, April, fr., KERR 5791 (BM, K). PENINSULAR: Surat Thani, Khao Yo, March, young fr., KERR 12744 (BM).

Cryptocarya pustulata* Kosterm., *spec. nov.

Arbor, ramulis gracillimis glabris nitidis lenticellatis apicem sparse minutissime adpresse pilosis, foliis glabris chartaceis vel tenuiter coriaceis oblongis vel ellipticis rarissime subovato-ellipticis late obtuse acuminatis basi acutis vel obtuse-truncatis, utrinque dense minutissime areolato-reticulatis, supra nitidis nervo mediano impressis costis filiformis obscuris, subtus glaucis nervo mediano prominentibus sub-glabris parte basalibus pustulosis costis plurimis gracilis erecto-patentibus nerviis secundariis horizontalis obscuris, petiolis brevis pustulosis canaliculatis, paniculis gracilis foliis sub-brevioribus sat pauci-floris minutissime sub-sericeis pustulosis, tepalibus ovatis acutis sericeis.

Typus: Sangkhachand 615 (C).

SOUTHEASTERN: Chanthaburi, Febr., fl., SANGKHACHAND 615 (C); Sri Racha, Bandan, 25 m alt., Nov., fr., COLLINS 1975 (K); Nha Prow, 25 m alt., April, fl., COLLINS 865 (K). PENINSULAR: Surat Thani, alt. 50 m, March, fl., KERR 12496 (BM, K); Khao Tao, 300 m alt., Dec., after anthesis, KERR 11200 (BM); Chumpon, Phato, Langsuan, 200 m alt., Febr., fl., KERR 12144 (BM, K); Nakhon Si Thammarat, Dec., fl., SUVARNAKOSES 251 (BKF). Burma.— Div. Thauung Yin, MAUNG BA PE (K).

Cryptocarya shoreaefolia Kosterm., *spec. nov.*

Arbor, ramulis laevis nitidis apice dense minute ferrugineo sublanuginosis, foliis coriaceis glabris ovatis vel elongato-ovatis acuminatis basi rotundatis rarissime acutiusculis, supra nitidis nervo mediano vix impressis costis obscuris, subtus opacis sub-glaucis obscure laeviter minutissime reticulatis nervo mediano prominentibus costis sat patentis gracilis prominentis arcuato-adscendentibus, petiolis sat longis, paniculis multifloris foliis brevioribus dense pallide brunneo subadpresse sub-lanuginosis.

Typus: Hansen, Seidenfaden & Smitinand 11178 (C).

NORTHERN: Phitsanulak Thung Salaeng Luang, alt. 550 m, Febr., buds, HANSEN, SEIDENFADEN & SMITINAND 11178 (BKF, C).

Cryptocarya sublanuginosa Kosterm., *spec. nov.*

Cryptocarya oblongifolia Auct. (non Blume) Lecomte in Nou. Arch. Mus., Sér. 5,5:95.1914; Fl. Indoch. 5:146.1914; Liou Ho, Laur Chine et Indoch. 101.1932; Kostermans, Bibl. Laur. 423.1964 (sub. *C. oblongifolia* Bl.).

Arbor, ramulis gracilis minutissime dense ferrugineo sublanuginoso-tomentellis, foliis tenuiter coriaceis oblongis usque ad subovato-oblongis brevissime obscure acuminatis basi rotundatis vel acutiusculis, supra nitidis minutissime obscure reticulatis nervo mediano sub-impressis, subtus glaucis glabrescentis nervo mediano prominentibus non pustulatis costis gracilis erecto-patentibus prominulis nerviis secundariis prominulis, petiolis canaliculatis, paniculis multifloris dense minutissime sub-lanuginosis, tubus obconicis, fructus ellipsoideis laevis, apiculatis.

Typus: Kerr 21285 (K)

Thailand.— SOUTHEASTERN: Chanthaburi, Si Racha, April, fl., COLLINS 965 (K); Bandan, alt. 25 m, Nov., fr., COLLINS 1975 (K).

Laos.— Viengchan, Muang Ban, April, fl., KERR 21285 (K, BM).

Litsea beusekomii Kosterm., *spec. nov.*

Arbor, ramulis gracilis minutissime dense ferrugineo adpresse pilosis, foliis alternantibus chartaceis glabris (subtus nerviis principalis pilis microscopicis munitis) obovato-ellipticis abrupte conspicue acuminatis basi sensim attenuatis acutisque, supra opacis nervo mediano

impressis costis sub-impressis, subtus glaucis nervo mediano prominentibus costis sparsis erecto-patentibus prominulis nerviis secundariis laxis prominulis, petiolis sat longis gracilis, racemis vel paniculis axillaris brevis gracilis dense minute ferrugineo sub-adpresse pilosis, bracteis umbellularum dense minute sericeis, floribus pedicellatis, sericeis, fructus anguste ovoideis, cupulis sat planis sericeis, pedicellis obconicis.

Typus : Beusekom & Phengkhlai 1363 (L).

NORTHERN. Chiang Mai. Doi Chiang Dao, alt. 1600 m, along trail from Ban Tham to Summit, June, young fr., BEUSEKOM & PHENKHLAI 1363 (AAU, BKF, C, E, K, KYO, L, P); *ibid.*, alt. 1500-1900 m, Dec., male fl., HENNIPMAN 3265 (BKF, C, L); Doi Inthanon, 1350-1900 m alt., Dec., buds, TAGAWA et al. 2636 (BKF).

Litsea hansenii Kosterm., *spec. nov.*

Arbor, ramulis gracilis dense minutissime ferrugineo sub-lanuginosis, foliis oppositis chartaceis oblongis brevissime acutis basi sub-rotundatis, supra nitidis laevis nervo mediano gracilis basin versus sub-impressis costis filiformis sub-impressis, subtus pallidioribus opacis nervo mediano prominentibus sparsissime pilosis costis erecto-patentibus arcuato-adscendentibus prominentibus, nerviis secundariis numerosis sat obscuris parallelis sub-horizontalis, petiolis gracilis glabris, infructescentiis axillaris, racemis pilosis sub-nullis, umbellulis pedunculatis solitariis, pedunculis longis glabrescentibus, fructus ellipsoideis, cupulis parvis planis, pedicellis obconicis.

Typus : Bertel Hansen & Smitinand 12916 (C).

NORTHERN: Tak, Doi Pae Poe, about 90 km N.W. of Tak, 17°17' N, 98°25' E, March, fr. green with white spots, HANSEN & SMITINAND 12916 (BKF, C).

Litsea kerrii Kosterm., *spec. nov.*

Arbor, in omnibus partibus glabris innovationibus exceptis, foliis alternantibus sub-coriaceis oblongis vel sublanceolato-oblongis breve acuminatis basi attenuatis acutisque, utrinque minutissime laeviter areolato-reticulatis, supra nervo mediano prominulis costis obscuris,

subtus pallidioribus opacis nervo mediano prominentibus costis filiformis obscuris, petiolis gracilis longis supra concavis, racemis axillaribus, pedunculis umbellularum brevis, bracteis umbellularum grandis, interioribus minutissime pilosis, floribus sessilibus, tubus obconicis brevis, tepalibus anguste ovatis, filamentis filiformis glabris, glandulis basalibus parvis.

Typus : Kerr 5202 (K).

NORTHERN. Chiang Mai, Doi Phahom Pok, Fang, alt. 2000 m, April, male fl., KERR 5202 (BM, K).

***Litsea pseudo-elongata* Kosterm., spec. nov.**

Arbor, ramulis crassiusculis dense ferrugineo-tomentellis, innovationibus magni-perulatis, foliis sub-verticillatis vel aggregatis, sub-coriaceis ellipticis vel subobovato-ellipticis acuminatis basin versus attenuatis acutiusculis, supra laevis nervo mediano gracile puberulis impressis costis filiformis impressis, subtus conspicue reticulatis laxe gracile tomentellis nervo mediano robustis costis erecto-patentibus prominentibus venis secundariis prominulis conjunctis, petiolis sat robustis, dense tomentellis brevis, inflores centibus axillaris dense tomentellis umbellulis sessilis.

Typus : Sørensen, Hansen and Larsen 6221 (C)

Related to *L. elongata*, but the upper leaf surface smooth, the inflorescences sub-sessile. The reticulation of the lower leaf surface and its tomentum is exactly that of *L. elongata*.

The female specimen at hand could as well represent an *Actinodaphne*, but because of its similarities with *L. elongata*, I have described it, for the time being in *Litsea*.

NORTH-EASTERN. Loei, Phu Kradung, alt. 1300 m, Nov. after anthesis, Sørensen, Larsen and Hansen 6221 (AAU, BKF, C).

***Litsea pseudo-umbellata* Kosterm., spec. nov.**

Arbor vel frutex, ramulis gracilis minutissime sub-adpreses pilosis, foliis alternantibus membranaceis vel chartaceis oblongis obscure acuminatis basi sub-obtusis, supra nitidis laevis vel minutissime obscure reticulatis glabris nervo mediano gracilis sub-impressa excep-

tis costis filiformis subimpressis, subtus opacis minutissime reticulatis nervo mediano prominentibus sub-pilosis costis gracilis prominulis erecto-patentibus arcuato adscendentibus nerviis secundariis sub-parallelis obscuris, petiolis gracilis longis, floribus ut in L. umbellatae fructus ellipsoideis vel subovoideo-ellipsoideis acutiusculis, cupulis sat planis, pedicellis obconicis.

Typus : Kerr 3230 (BM).

NORTHERN : Chiang Mai, Doi Suthep, alt. 1250 m, damp evergreen, Oct., fr., KERR 3435 (BM, K); idid., 1200 m, by stream, June, fl, KERR 3230 (BM, K).

***Litsea punctulata* Kosterm., spec. nov.**

Arbor, ramulis rigidis sat crassis minutissime dense pallide brunneo sub-lanuginosis, foliis alternantibus rigide chartaceis oblongis usque ad suboblanceolato-oblongis breviter acuminatis saepe obtusis basi sensim attenuatis, supra sub-nitidis glabris dense minutissime scrobiculatis nervo mediano impressis costis filiformis sub-impressis, subtus opacis dense minutissime reticulatis mox glabris nervo mediano prominentibus exceptis costis filiformis erecto-patentibus sat arcuatis nerviis secundariis numerosis sub-parallelis filiformis, petiolis gracilis longis supra canaliculatis, racemis umbellularum brevissimis axillaribus, pedunculis umbellularum dense minutissime sub-adpresse sub-lanuginosis, bracteis umbellularum vix sericeis interioribus dense sericeis margine fimbriatis, tubis angustis obconicis in pedicellis longis transeuntibus dense longe sericeis, tepalibus anguste ovatis dense longe sericeis, filamentis longis filiformis et longe sericeis, glandulis basilibus parvis brevissime stipitatis.

Typus : Phusomsaeng & Phengkhlai 244 (AAU).

PENINSULAR, Trang, Khao Chong, common, May, fl., PHUSOMSAENG & PHENKHLAI 214 (AAU, C).

***Neolitsea aureo-sericea* Kosterm., spec. nov.**

Arbor, ramulis gracilis minutissime dense aureo-sericeis, foliis coriaceis oblongis usque ad anguste ovatis brevissime late acuminatis basi cuneatis, supra (foliis junioribus minute sericeis mox glabris)

laevis vel obscure minutissime scrobiculatis nervo mediano costisque filiformis prominulis, subtus glaucis obscure scrobiculatis minutissime sericeis glabrescentis nervo mediano prominulis costis subbasalibus filiformis $2/3$ longitudine laminarum attingentibus costis caeteribus utrinque 2 obscuris, petiolis gracilis longis, umbellulis axillaris vel ad internodii sessilis, bracteis minutissime sericeis, pedicellis sericeis, filamentis gracilis glabris.

Typus: Kerr 9366 (K)

SOUTHEASTERN. Chanthaburi, Laem Sing, alt. 50 m, Nov., buds, KERR 9366 (BM, K).

EASTERN: Chaiyapum, Phu Khio, alt. 900 m, Febr., young fr., KERR 20266 (BM, K).

Neolitsea reticulata Kosterm., *spec. nov.*

Arbor, ramulis glabris, foliis (immaturus apicem versus pilosis) chartaceis glabris utrinque nitidis et dense minute areolato-reticulatis subobovato-ellipticis late acuminatis basi acutis, supra nervo mediano gracilis prominulis costis filiformis inconspicuis, subtus nervo mediano gracilis prominentibus costis sub-basalibus filiformis usque and $1/2$ — $2/3$ longitudine laminarum adscendentibus costis caeteribus erecto-patentibus, petiolis gracilis bene evolutis, umbellulis axillaris et ad internodiis sessilis, bracteis umbellularum glabris, floribus masculinis minutis, tepalibus angustis intus pilosis, filamentis glabris, glandulis stipitatis filamentis non adnatis, fructus globosis, pedicellis gracilis, cupulis disciformis minimis.

Typus: Charoenphol et al. 4182 (AAU)

NORTHEASTERN, Loei, Phu Kradung, alt. 1300 m, Nov., fl., SMITINAND 4971 (K).

EASTERN. Khao Yai Nat. Park, Khao Khio, alt. 1250 m, Aug., fl., CHAROENPHOL, LARSEN & WARNCKE 4182 (AAU); *ibid.*, Dec., fl., PHENGKHLAI 439 (BKF) and 494 (BKF, C).

Neolitsea siamensis Kosterm., *spec. nov.*

Arbor vel frutex, ramulis dense minute pallide brunneo sublanuginosis, foliis sub-coriaceis ellipticis usque ad subobovato-ellipticis

acuminatis basi sensim attenuatis et cuneatis, supra laevis vel minutissime obscure scrobiculatis nitidis fere glabris nervo mediano costisque filiformis prominulis, subtus glaucis mox glabris nervo mediano prominentibus sublanuginosis costis sub-basalibus usque ad $\frac{2}{3}$ longitudine laminarum adscendentibus costis caeteribus utrinque 3-4 sat erectis arcuatis venis secundariis parallelis horizontalis, petiolis longis pilosis, umbellulis sessilibus axillaribus et ad internodiis, bracteis dense sericeis, floribus masculinis pedicellis bene evolutis sericeo-tomentellis, tepalibus angustis dense pilosis, staminibus exsertis, filamentis filiformis glabris longis, fructus immaturus obovoideo-globosis, cupulis parvis sub-planis.

Typus : Kerr 8558 (K)

NORTHEASTERN. Nong Khai, Bueng Kan, Nong Nawaeng, alt. 100 m, Nov., buds, SMITINAND 10065 (BKF, C, K, L, P); Nong Khai, Phon Phisai, Febr., fl., KERR 8558 (BM, K); Loei, Khao Kradung, alt. 1200 m, March, young fr., KERR 8737 (BM, K).

EASTERN. Nakon Ratchasima Khao Yai Nat. Park, Dec., buds, PHENGKHLAI 508 (BKF, C, K); id. 635 (BKF, C, K); Khao Luan, Jan., fl., KERR 9920 (BM, K); idid., Dec., fl., PUT 3561 (BM).

Nothaphoebe siamensis Kosterm., *spec. nov.*

Arbor magna, ramulis angulatis minutissime pulverulente pilosis, foliis alternantibus subcoriaceis glabris subobovato-ellipticis conspicue acuminatis basin versus sensim attenuatis supra nitidissima dense prominule reticulata nervo mediano costisque erecto-patentibus prominentibus, petiolis longis, paniculis axillaribus multifloris minutissime laxe pilosis bracteis caducis, pedicellis longis gracilibus, tepalibus valde inaequalibus carnosissimis ovatis acutis, tubo intus brevissime pilosis, antheris late oblongo-rectangularibus subsessilibus cellulis minutis glandulis parvis, ovario globosis in stylo aequilongo transeuntibus, stigmate parvis capitellatis.

Typus : Phusomsaeng 213 (AAU).

PENINSULAR. Trang, Khao Chong, common, April, fls. yellow, PHUSOMSAENG 213 (AAU, C).

Persea chartacea Kosterm., *spec. nov.*

Arbor, ramulis minutissime sparse sub-sericeis, foliis aggregatis et alternantibus chartaceis oblongis vel subobovato-oblongis acuminatis basi acutis, supra glabra opaca sub-laevia nervo mediano impressis costis filiformis, subtus pallidioribus sparse minutissime sericeis glabrescentis obscure reticulatis vel laevis nervo mediano prominentibus costis filiformis erecto-patentibus arcuatis prominulis, petiolis gracilis, paniculis paucifloris vix ramosis foliis subaequilongis laxe sericeis tepalibus sat grandis angusteovatis dense minutissime sericeis filamentis glabris, glandulis basalibus breviter stipitatis, ovario glabris globosis.

Typus: Larsen 10144 (C).

NORTHERN, Chiang Mai, Doi Suthep, dry evergreen forest, 1120 m, ster., SØRENSEN, HANSEN & LARSEN 2816 (C).

CENTRAL, Khao Khieo, 12–1300 m, June, fl., LARSEN 10144 (C).

Persea karzii (King ex Hk.f.) Kosterm.

var. sericea Kosterm, *var. nov.*, *foliis minoribus 2.5 × 5–3 × 9.5 cm, paniculis 3 cm longis sparse minutissime sericeis.*

This might represent a proper species.

CENTRAL: Chaiyaphum, Phu Kio, 1000 m, Febr., fl., shrub 1 m high, KERR 29212 (BM, K).

Persea magniperulata Kosterm., *spec. nov.*

Arbor, ramulis sat gracilis glabris, innovationibus magniperulatis dense sericeis, foliis alternantibus ad aggregatis coriaceis glabris ellipticis vel suboblanceolato-ellipticis obscure sub-acuminatis basi acutis, utrinque nitidis et minutissime dense areolato-reticulatis, supra nervo mediano parte basalibus sub-impressis costis prominulis filiformis, subtus glaucis nervo mediano robustis prominentibus costis filiformis erecto-patentibus, petiolis sat longis, paniculis foliis sub-aequantibus minutissime sparse pilosis, floribus dense sericeis, tepalibus angustioribus obtusis vel acutis, filamentis glabris, glandulis breve stipitatis, staminodiis sat brevis, ovario glabris.

Typus: Kerr 11868 (BM).

PENINSULAR: Ban Son, March, fl., PUT 1565 (K) and buds, PUT 1568 (BM, K); Langsuan, Tako, alt. 50 m, Febr., fl., KERR 11868 (BM); Songkhla, Thepha, alt. 50 m, March, young fr., KERR 14755 (K).

Phoebe siamensis Kosterm., *spec. nov.*

Arbor, ramulis sparse minutissime pilosis, foliis alternantibus sub-aggregatis tenuiter coriaceis glabris ellipticis breve acutis basi sensim attenuatis et cuneatis, supra sat opacis sub-laevis nervo mediano prominulis costis filiformis prominulis, subtus minutissime reticulatis nervo mediano sub-prominentibus, costis erecto-patentibus prominulis nerviis secundariis filiformis, petiolis sat longis, paniculis sat laxis foliis sub-brevioribus pauca ramosis minutissime dense gracilique sub-lanuginosis, pedicellis gracilis, floribus pilosis, tepalibus ovatis acutis inaequalis intus dense griseo sericeis, filamentis dense pilosis antheris angustis acutis sub-longioribus, glandulis sessilis.

Typus: Kerr 6426 (K).

NORTHERN: Chiang Mai Mae Rim, alt. 800 m, Oct., fl., KERR 6426 (K).

Potameia siamensis Kosterm., *spec. nov.*

Arbor mediocris, foliis rigide chartaceis glabris subovatis vel ellipticis vel subobovato-ellipticis usque ad suboblanceolatis acuminatis basi acutis, utrinque laxa minutissime reticulatis, paniculis axillaris foliis multo brevioribus paucifloris minutissime griseo pulverulente pilosis (pilis sinuosis), bracteis sat grandis pulverulente pilosis caducis, pedicellis sat longis, tubus bene evolutis, tepalibus ovato-orbicularibus sub-acutis latioribus quam altioribus sub-coriaceis glabris, antheris ovato-triangularibus acutis introrsis, filamentis latis, glandulis basali-bus sat grandis applanatis, staminodiis nullis, ovario globosis in stylum brevissimum transeuntibus stigmatate inconspicuis, fructus ellipsoideus.

Typus: Hansen & Smitinand 12131 (C).

NORTHERN: Chiang Mai, Doi Suthep, alt. 1150 m, Oct., buds, SØRENSEN, LARSEN & HANSEN 5642 (C).

PENINSULAR: Nakhon Si Thammarat, Khao Luang, alt. 750 m, Jan., fls. yellowish green, HANSEN & SMITINAND 12131 (C).

- Persea declinata** (Bl.) Kosterm., *comb. nov.*—*Laurus declinata* Bl., Cat. 66. 1823 (basionym).—*Phoebe declinata* (Bl.) Nees, Syst. Laur.: 114. 1836
- Phoebe cathia** (D. Don) Kosterm., *comb. nov.*—*Cinnamomum cathia* D. Don, Prod. Fl. Nepal.: 66.1825 (basionym).—*Phoebe paniculata* (Nees) Nees, Syst. Laur.: 105, 671.1836.
- Litsea acutifolia** (Liou Ho) Kosterm., *comb. et stat. nov.*—*Litsea cambodiana*, var. *acutifolia* Liou Ho, Laur. Chine et Indoch.: 172.1932 (basionym).
- Litsea cuneifolia** (Liou Ho) Kosterm., *comb. et stat. nov.*—*Litsea elongata*, var. *cuneifolia* Liou Ho, Laur. Chine et Indoch.: 195.1932 (basionym).
- Neolitsea foliosa** (Nees) Kosterm., *comb. nov.*—*Litsea foliosa* Nees, Syst. Laur.: 622. 1836 (basionym).