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Three New Species of *Aquilaria* (Thymelaeaceae) from Borneo Indonesia

T. Mulyaningsih^{1, a)} and I. Yamada²

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Abstract. Three new species of *Aquilaria* (Thymelaeaceae) from Borneo, *Aquilaria macrocarpa*, *Aquilaria malinensis* and *Aquilaria lepidota* has been and described and depicted from the specimens which were collected from Malinau Sebrang village, Pulau Sapi village, Malinau, Beringin Lumbis village, Nunukan, North Borneo and herbarium sheets of *Aquilaria* from BO and L. These species are similar to *Aquilaria beccariana*, but they are different in their inflorescent, flower, fruits, seed stipes and caruncles.

Keywords: *Aquilaria*, Thymelaeaceae, taxonomy, Borneo, Indonesia.

INTRODUCTION

According to van Tieghem, Ding Hou and Tawan [1-3], *Aquilaria beccariana* in Borneo was found in Sarawak, Sabah and Brunei Darussalam, and The Province of Central and South Borneo. However, during the survey on wild and cultivated *Aquilaria* population in East and North Borneo Province, there were three interesting *Aquilaria* species in the Malinau (Bumi Intimung) one of the District in North Borneo (Kalimantan) Province Indonesia, which located in the border between Sarawak and North Borneo (Indonesia). These are similar to *Aquilaria beccariana* in almost all vegetative characters. However critical examination of the fruits revealed that it is not only different from them, but also to the whole genus *Aquilaria*.

This genus comprises so far 20 species, distributed in tropical and subtropical Asia from Southern China throughout the Malesia region extending to the Pacific Islands, with the majority of these species distributed in Malesia [4]. This genus was included in subfamily Aquilarioideae and belong to Thymelaeaceae family [2]. In Indonesia there are six species of *Aquilaria*, that there known as *A. beccariana* van Tiegh, *A. cumingiana* (Decne) Ridl., *A. filaria* (Oken) Merr., *A. hirta* Ridl., *A. malaccensis* Lamk., *A. microcarpa* Baill. [2,5].

METHODS

The new species described here belongs to *A. beccariana* Tiegh. [1-3], about 70 specimens were identified based on their characters in the relevant references [6-8]. The specimens of *A. macrocarpa* Mulyaningsih & Yamada sp. nov. and *A. malinensis* Mulyaningsih & Yamada sp. nov. which were collected from Malinau Sebrang village, North Malinau District, North Borneo and herbarium sheets of *Aquilaria* from BO and L. While the specimens of *Aquilaria Lepidotta* Mulyaningsih & Yamada sp. nov. were collected from Pulau Sapi village, Malinau, and Beringin Lumbis Village, Nunukan, North Borneo. These species were characterized by their leaves, inflorescence, flowers, fruits, seed stipes and caruncles.

RESULTS AND DISCUSSION

Key to Species of *Aquilaria*

1. a Leave puberulent, inflorescent umbel (go to characteristics 2)
b Leave glabrous, inflorescent dense pseudo-corymbs (go to characteristics 3)
2. a. Flower cupular, fruit thin broadly hexagonal, contracted in the middle, white pubescent scattered, seed stipes as long as seed, caruncle deep question mark form, slender *Aquilaria beccariana*
b. Flower campanulate, fruit thick, broadly ovate, white puberulent sparsely, seed stipes length the half of seed, caruncle obovate, thick *Aquilaria macrocarpa*
3. a Fruit narrowly obtrullate, white strigulose scattered *Aquilaria malinensis*
b Fruit elliptic, brown lepidote on apart of fruit *Aquilaria lepidotta*

DESCRIPTION

Aquilaria macrocarpa Mulyaningsih & Yamada sp. nov. (Fig. 1)

Inflorescentiae, sed flos campanulatus, sparse puberulo extra. Fructus late ovatis crassis parce puberulis; stipes dimidio seminis; carunculam obovatis dense puberulis. — TYPE: Indonesia, Borneo, North Malinau District, Malinau sebrang village, 23 Mei 2010, T. Mulyaningsih & Y. Supriyadi 228 (MUL, holo).

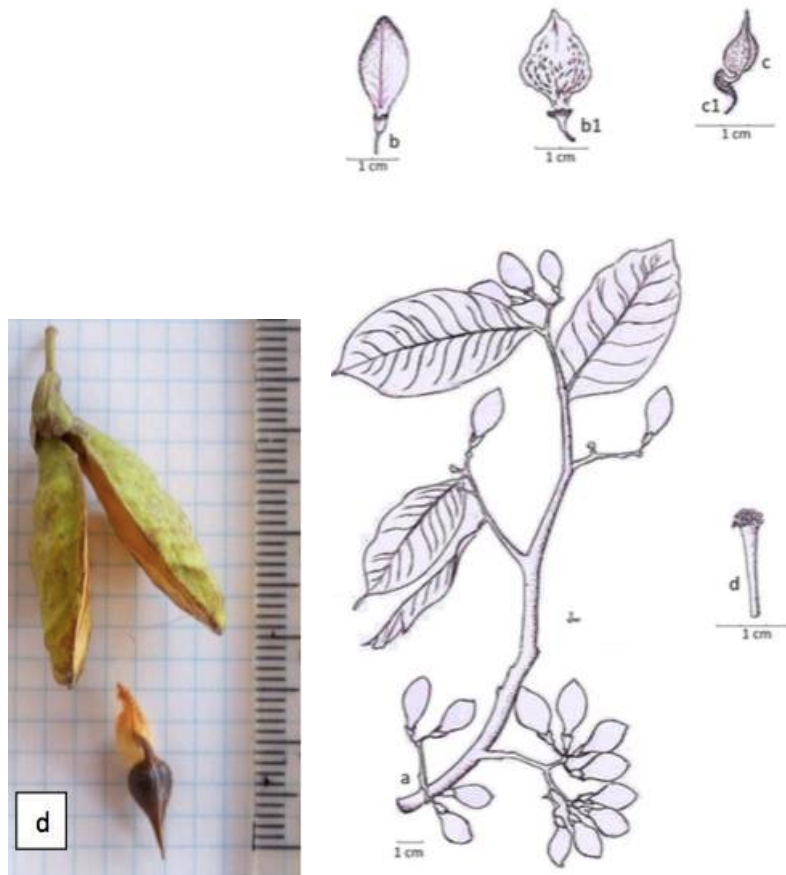


FIGURE 1. *Aquilaria macrocarpa*: a. branchlet with fruit, b. fresh fruit; b1. dry fruit; c. seed; c1. caruncle; d. inflorescent, e. opened fruit.

Tree up to 17 m tall and 33 cm diam. Bark grayish brown, crackly or deep fissure. Leaves oblong-elliptic, brown puberulous on the midrib on both surfaces, nerves 9-12 pairs, margin entire. Inflorescences terminal on short branch 0.5-12 mm, or infra-axillaries, simple - compound umbel, puberulent, 9-15 florets/ umbel; peduncle length 3-18 mm, rachis 6-9 mm, pedicel sessile, hirsute, pediceolus 5-6 mm. Flower campanulate, 7mm x 7 mm persistent, puberulent outside, calyx tube 5 mm, calyx lobe 2.5 mm length, 5; petaloid appendages twice as many as the lobes, free, 1.2 mm x 0.6 mm, densely puberulent, inserted at the throat of the tube, lanceolate, two petals inside of each calyx lobe. Stamens as many as petaloid appendages, emerging from the tube at the same level as the appendages, equal in length, sessile. Fruit widely ovate length 25-30 mm by 12-15 mm in diameter and 5.5-6.5 mm thick, puberulent sparsely, fruit base rounded, and stipe elongates up to 5-7 mm, protruding splitting on one side of floral tube. Seed black, obovate 10 x 5 mm, apex cauded elongate up to 2 mm, red brown puberulent, seed base rounded with short stipe a half-length of seed, caruncle obovate thick 7.3 mm by 3 mm, dorsal red brown puberulent sparsely, ventral white glabrous.

Vernacular Names. Gaharu beringin (Melayu), tanduk beringin (dayak).

Distribution. Borneo (Malinau)

Habitat & ecology. At the river side and the swam side, on alluvial flat, deep clay soil, altitude 7 m above level sea.

Notes. *Aquilaria macrocarpa* resembles *A. beccariana* in the number, shape and arrangement of the inflorescences, but the flower campanulate, puberulent sparsely outside; fruit widely ovate, thick, puberulent sparsely, stipes half the length of the seed, caruncle obovate, puberulent sparsely in *A. macrocarpa* while the flower copular, the fruit widely hexagonal, thin, contracted in the middle, white puberulent very sparsely, stipes as length as seed, caruncle deep question mark form, slender, woolly in *A. beccariana*.

Etymology. The ephitet 'macrocarpa' refers to the big fruit size (thick).

Specimen examined. Borneo: North Borneo, Malinau, North Malinau District, Malinau sebrang village, seen fresh specimen of fruit, T. Mulyaningsih & Y. Supriyadi, 29 (MUL).

***Aquilaria malinensis* Mulyaningsih & Yamada sp. nov. (Fig. 2).**

Inflorescentiae, sed inflorescentiis valde simplex compositis-densa falsi corymbis. Flos cupular, 10-12mm x 5-6 mm, praecipue longus, extra dense puberulis, florum sunt facile decidit, non minus quam 1% erunt fructus. Calycis tubus 8-9 mm longum, dense puberulis costae X, V calyce petiolo cras- siusculo, extra dense puberulis, 2-3 mm x 1 mm. Petaloid appendicibus bis ut multa sicut lobi, obovatis, 0,35 mm x 0.6 mm, juventute dense puberulis inserta costis a christianorum iugulis repulsi. 0,2 x 0,8 mm longus lanceolatis quotquot appendicibus sessilibus appendicem post insertum est leve. Obtrullate fructus apice, parce strigulose, ut tandem stipes seminis formam j carunculam. — TYPE: Indonesia, Borneo, North Malinau District, Malinau Sebrang village, 23 Mei 2010, Tri Mulyaningsih & Y. Supriyadi 229 (MUL, holo).

Tree up to 9 m tall and 20 cm diam. Bark blackish gray, crackly or deep fissure with pilling bark at the trunk. Leaves oblong-elliptic, glabrous on both surfaces, nerves 10-12 pairs, margin entire, undulate vertically. Inflorescences terminal on short branch 8-10 cm, axillaries or suprafoliar, simple-compound dense pseudo-corymbs, puberulent, 9-15 florets/ corymbs, peduncle 2-10 mm length, rachis 2.8-5 mm, axis 2.5 - 4 mm, brown hirsute at tip, pedicle 1-4 mm. Flower cupular 10-12mm x 5-6 mm, persistent, densely puberulent outside, flowers are easily fell down, only less than 1% will be the fruit, calyx tube 8-9 mm length, ten densely puberulent costae, calyx lobes 5, densely puberulent outside, 2-3 mm x 1 mm. Petaloid appendages twice as many as calyx lobes, obovate, 0.6 mm x 0.35 mm, densely puberulent, inserted in the costae at the throat. Stamens lanceolate 0.2 mm x 0.8 mm, as many as appendages, sessile, inserted slightly above behind appendage. Fruit narrowly obtrullate 2-3 cm by 0.6-0.8 cm, puberulent sparsely, fruit base narrowed to the base into an elongate stipe up 11-13 mm, protruding on the top of the floral tube. Seed black, obovate, apex cauded elongate 3 mm, red brown puberulent, seed base rounded with short stipes as length as seed up to 3-5 mm, caruncle J form, slender 3 mm by 1 mm, dorsal red brown wooly thick, ventral white glabrous.

Vernacular names. Gumbil (Kutai), Gaharu Nimbang (Melayu), Tanduk Nimbang (Dayak).

Distribution. Malinau, North Borneo.

Habitat & ecology. At The River Side and The Swam Side, On Alluvial Flat, Deep Clayey Soil.

Notes. *A. Malinensis* resembles *A. beccariana* in the position, number, inflorescences, but the inflorescences simple-compound dense pseudo-corymbs, calyx tubes have ten densely puberulent costae; petaloid appendages



FIGURE 2. *Aquilaria malinensis*: a. Branchlet with fruit, b. inflorescence, c. fruit, d. inflorescences and fruit.

inserted in the costae at the throat. Fruit narrowly obtrullate, strigulose sparsely, stipes as length as the seed, caruncle J form, in *A. malinensis* while *A. beccariana* the inflorescences umbel – compound umbel, the fruit widely hexagonal, thin, contracted in the middle, white puberulent scattered, stipes as length as seed, caruncle deep question mark form.

Specimen examined: Sarawak: seen young flowers in Bo, J & M. S. Clemens 15413 (BO); Borneo: South Borneo, Muara Uja, seen young flowers in (BO), E.F. De Vogel 1660 (BO, L); Balikpapan, seen flower in BO, E. G. Sauveur 128 (BO); North Kalimantan, Malinau, seen fruits in Mataram University Lombok (MUL), T. Mulyaningsih & Y. Supriyadi 229 (MUL) as Type. *A. malinensis* slightly similar as *A. lepidota* in type of inflorescences and flower but different in calyx tube, fruit form, stipes and caruncles.

Etymology. The epithet ‘malinensis’ refers to locality where this species is collected, *i.e.*, in Malinau, North Borneo. It is so far only known from the type locality.

***Aquilaria Lepidotta* Mulyaningsih & Yamada Sp. Nov. (Fig. 3).**

Inflorescentiae terminales brevi genere longitudinem 2-22 cm, infrafoliar aut cauliflorous, simplex compositis-densa corymbis pseudo-puberulis. Flos cupular, calycis tubi longitudinem 7 mm, XX costis subtus dense puberulis intus glabris foris; calyce petiolo cras- siusculo V, puberulis margine et tip, 2 mm x 3mm. Petaloid appendicibus bis ut multa sicut lobis, cuneatus, II inserta costis a christianorum iugulis repulsi. Stamina lanceolatis, utrinque appendicibus quot sessilibus aequo appendice inseruit. Fructus ellipticus, sparse albo strigulose brunneis sine fructu lipidote commorantibus in floralibus tubo basi angustatis basi elongatam dabit fructum sursum stipes 15 mm toris tubi floris cacumen. 1.25 stipes interdum albae semen longitudinem semen carunculam formae f. — Type: Indonesia, Borneo, Malinau, Pulau Sapi Village, 1 August 2005, Tri Mulyaningsih & I. Yamada 81 (MUL, Holo).

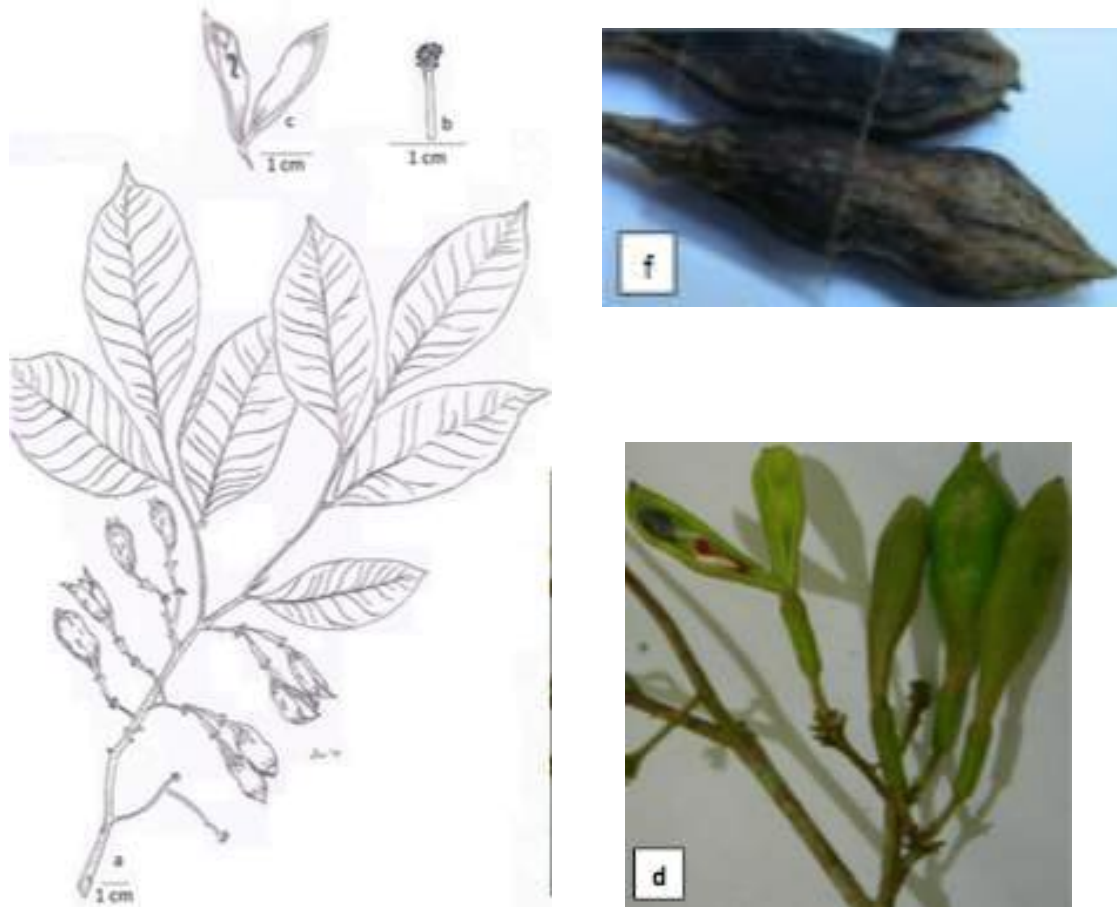


FIGURE 3. *Aquilaria lepidota*: a. branchlet with fruits, b. inflorescent; c. fruit; d. inflorescences and fruits covered with brown lepidote; f. dry fruit cover by brown lepidote.

Shrub up to 6 m tall and 10 cm diam. Bark whitish gray, shallow fissure but smooth on young branchlet; leaves elliptic, glabrous on both surfaces, nerves 7-10 pairs, margin entire, undulate vertically. Inflorescences terminal on short branch 2-22 cm length, infrafoliar, or cauliflorous, simple-compound dense pseudo-corymbs, puberulent, peduncle 2-5 mm, rachis 18 mm, pedicel 3-5 mm, pediceolus 6-7 mm. Flower copular, 10-11 mm x 5-6 mm, persistent; calyx tube 7 mm length, 20 costae densely puberulent inside, glabrous outside; calyx lobes 5, puberulent on the tip and margin, 3 mm x 2 mm. Petaloid appendages twice as many as calyx lobes, cuneate, 1 mm x 0.9 mm, densely puberulent, inserted in the two costae at the throat. Stamens linearis 1 mm x 0.2 mm, slender, as many as the appendages, sessile, inserted in the same level of the appendage. Fruit elliptic 25-33cm by 9-11 cm, white strigulose very sparsely, brown lipidote on apart of fruit and persistent floral tube, fruit base narrowed to the base into an elongate, fruit stipe up 15 mm, protruding on the top of the floral tube. Seed black, obovate, 9-12 mm length, 3-4 mm diam., 3-4 mm thick, apex cauded elongate up to 3 mm, red brown puberulent, seed base rounded with white stipes 11-15 mm length (1.25 times the length of the seed), caruncle f form, slender 5- 8 mm by 1-2 mm, dorsal red brown wooly thick, ventral white, glabrous. **Vernacular names:** Gaharu gunung (Melayu), Tanduk gunung (Dayak).

Distribution: Pulau Sapi village, Malinau, North Borneo.

Habitat and ecology. In secondary Dipterocarp forest lowland at 50 m above sea level, at the river side, on alluvial flat, deep clayey soil.

Notes. *Aquilaria lepidota* resembles *A. beccariana* in the position, number, inflorescences, but the inflorescences simple - compound dense pseudo-corymbs, fruit elliptic, brown lepidote scattered, stipes 1.25 times the length of the seed, caruncle f form, in *A. lepidota* while in *A. beccariana* the inflorescences simple – compound

umbel, the fruit widely hexagonal, thin, contracted in the middle, white puberulent scattered, stipes as length as seed, caruncle deep question mark form.

Specimen examined: Borneo: North Borneo, Malinau, Pulau Sapi, seen fresh specimen of fruit, Mulyaningsih & I. Yamada, 72,73,78, 79 and 81 (MUL).

Etymology. The epithet 'lepidota' refers to the character of the floral tubes and fruits covered by brown lepidote.

CONCLUSIONS

According to Hou and Tawan [2,3], that *A. beccariana* has characters e.g.: leaves puberulent, inflorescent umbel, flower cupular, fruit thin, broadly hexagonal, contracted in the middle, white pubescent scattered, seed stipes as long as seed and caruncle deep question mark form, slender. *A. macrocarpa*, *A. malinensis* and *A. lepidotta* were considered as new species and new record in genus *Aquilaria*. They have different characters, on the organs of the inflorescent, flower; fruit, seed stipes and caruncles with *A. beccariana*.

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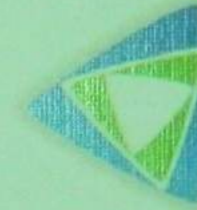
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