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*Bulbophyllum marknaivei*  
COOTES, BOOS & M.D. DE LEON

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Two new *Bulbophyllum* species and a new *Dendrobium* species (*Orchidaceae*)  
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**Summary:** Two A new species of the genus *Bulbophyllum* are described as *Bulbophyllum hampeliae* and *Bulbophyllum marknaivei* and a new species of *Dendrobium* is described as *Dendrobium buthcamposii*

**Keywords:** Philippines, *Bulbophyllum hampeliae*, *Bulbophyllum marknaivei*, *Dendrobium buthcamposii*

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# Two New *Bulbophyllum* species and a New *Dendrobium* species (Orchidaceae) from northern Mindanao, Philippines

Jim COOTES, Miguel David DE LEON, Ronny BOOS & Mark Arcebal NAIVE

**Abstract:** Two new *Bulbophyllum* species, and a new *Dendrobium* species, all from northern Mindanao, have recently flowered in the nursery of Mr. and Mrs. Georg HAMPEL (the three *Bulbophyllum* species) and in the collection of Miguel David DE LEON (the *Dendrobium* species). We hereby take the opportunity to name these species as *Bulbophyllum hampeliae* COOTES, R. BOOS, & NAIVE *sp. nov.*; and *Bulbophyllum marknaivei* COOTES, R. BOOS, & M.D. DE LEON *sp. nov.*; and *Dendrobium butchcamposii* COOTES, M.D. DE LEON. & R. BOOS *sp. nov.*

The species described here are a continuation of our studies of Philippine orchid species.

*Bulbophyllum hampeliae* COOTES, R. BOOS & NAIVE *sp. nov.*

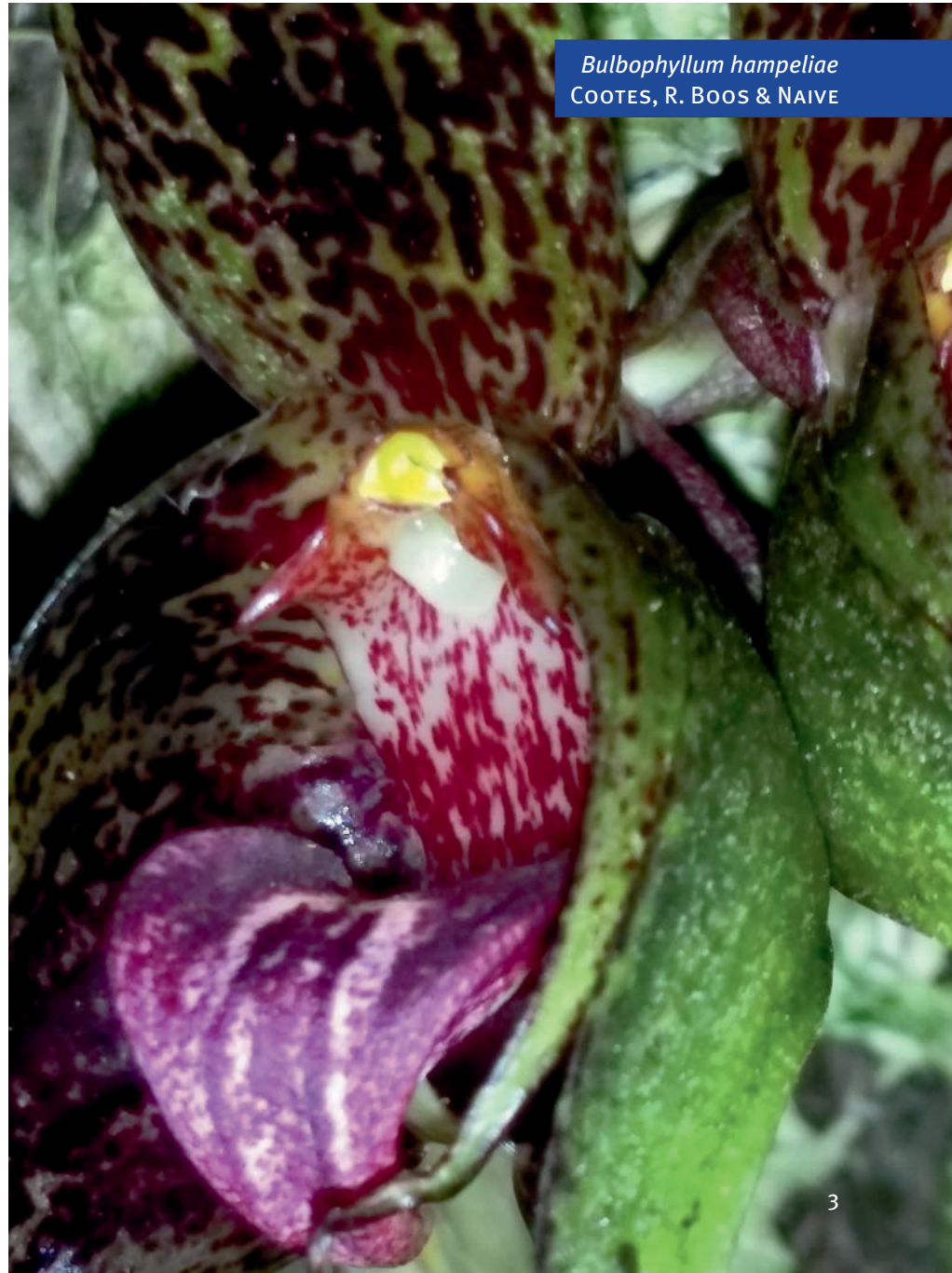
**TYPE:** Cultivated, Philippines: Mindanao, Misamis Oriental, Claveria, May 25<sup>th</sup>, 2016, GH 001/2016, ex collected Mindanao: Misamis Oriental, Georg HAMPEL s.n. (**HOLOTYPE:** CMU00010808)

**Growth habit:** upright, sympodial, epiphyte. **Roots:** short, appearing from each internode and the base of the pseudobulb. **Rhizome:** terete, 3 mm in diameter, covered with persistent sheaths; bearing the pseudobulbs at intervals between 7 to 12 cm. **Pseudobulbs:** cylindrical, slightly flattened, from 3 to 5 cm long by 7 mm wide; new pseudobulbs are covered by a large papery sheath; unifoliate. **Leaves:** thinly-textured, broadly ovate, apex acute; new leaves are heavily veined with purple. Petiole channelled, from 1.5 to 2.5 cm long; leaf blade from 9 cm to 12 cm long by from 4 to 6 cm wide. **Inflorescence:** appearing from the base of the pseudobulb, to 2 cm long, bearing 1 or 2 large flowers. **Flower colour:** on the dorsal sepal

the base colour is greenish, heavily spotted with purple to maroon markings, similar colouration for the petals and lateral sepal; labellum is bright reddish-purple, with white markings. **Dorsal sepal:** oblong, acute, tapering into a long acuminate tail, reflexing slightly, overall 6 cm long by 1.2 cm wide. **Petals:** broadly ovate, acute, tapering into a long thread-like tail, overall 3 cm long by 1 cm wide. **Lateral sepals:** broadly ovate, tapering into

a long acuminate tail, distinctly ridged at the back, 6 cm long by 1.4 cm wide. **Labellum:** fleshy, recurved, cordate, surface glabrous, about 1 cm long by 9 mm wide, underside grooved. **Column:** short, stout; two triangular stelia on the underside; column foot long curving upwards.

**Habitat and distribution:** *Bulbophyllum hampeliae* appears to be endemic to the Philippines where it is found in the province of Misamis Oriental, on



*Bulbophyllum hampeliae*  
COOTES, R. BOOS & NAIVE

Mindanao. It grows as an epiphyte, in mossy forest, in shady locations at elevations of 1,200 metres.

This species is a member of section **Pahudia** SCHLTR.

**Comparison:** *Bulbophyllum hampeliae* is related to *Bulbophyllum virescens* J.J.Sm., but differs in the much shorter length of the inflorescence; the one or two-flowered inflorescence; the smaller flowers and the smaller plant; and the very differently coloured blooms.

**Etymology:** It is our great pleasure to name this magnificent species for Mrs. Charisma HAMPEL, a most gracious hostess, whenever we visit their nursery.

*Bulbophyllum marknaivei* COOTES, R. BOOS, & M.D. DE LEON sp. nov.

**TYPE:** Cultivated, Philippines: Mindanao, Misamis Oriental, Claveria, May 26<sup>th</sup>, 2016, GH 004/2016, ex collected Mindanao: Misamis Oriental, Georg HAMPEL s.n. (**HOLOTYPE:** CMU00010806)

**Growth habit:** upright, sympodial, epiphyte. **Pseudobulbs:** minute; clustered; surrounded by persistent hairs; unifoliate. **Leaves:** petiolate: petiole 5 mm long, channelled; leaf blade, oblanceolate, apex unequally bilobed, to 6 cm long by 2 cm wide. **Inflorescence:** upright; 8.5 cm long, appearing from the base of the pseudobulb; rachis nodding, 3 cm long bearing about 16 tiny flowers. **Flower colour:** base colour is pink heavily marked with deep red; labellum is golden-brown.

*Bulbophyllum marknaivei*  
COOTES, BOOS & M.D. DE LEON



*Dendrobium butchcamposii*  
COOTES, BOOS & M.D. DE LEON

**Dorsal sepal:** oblong, rounded, to 2.5 mm long by 1.2 mm wide; outer surface covered with tiny papillae. **Petals:** narrowly lanceolate, to 1.5 mm long by 0.5 mm wide; with a central stripe. **Lateral sepals:** triangular, to 2.8 mm long by 1.8 mm wide; outer surface covered with tiny papillae. **Labellum:** oblong, fleshy, deeply furrowed on the basal half, 1.2 mm long by 0.8 mm; covered in minute papillae. **Column hood:** squarish, exceeding both sides of the anther cap; minute 0.6 mm long.

**Habitat and distribution:** *Bulbophyllum marknaivei* appears to be endemic to the Philippines where it is found in the province of Misamis Oriental, on Mindanao. It grows as an epiphyte, in mossy forest, in shady locations at elevations of about 1,200 metres.

**Comparison:** *Bulbophyllum markna-*

*ivei* appears to be closest to *Bulbophyllum submarmoratum* J.J.Sm. from Java and Borneo, but differs in the much smaller size of the plant (6 cm tall vs 12 cm tall), inflorescence (8.5 cm tall vs to 20 cm tall) and flowers. The flowers of *Bulbophyllum marknavei* are arranged along the rachis in two to three rows; the pseudobulbs are also clustered tightly together. This species is a member of section **Brachystachyae** BENTH. & HOOK.F. **Eymology:** Named in honour of Mark Arcebal Kling NAIVE, a botanist studying the families *Zingiberaceae* and *Orchidaceae*.

***Dendrobium butchcamposii*** COOTES, M.D. DE LEON, & R. BOOS sp. nov.  
**TYPE:** Cultivated, Philippines: Mindanao, Misamis Oriental, Cagayan de Oro, May 22, 2016, MDL 006/2016, ex collected Mindanao: Bukidnon, Miguel David DE LEON s.n. (HOLOTYPE: CMU00010805)

**Growth habit:** sympodial, upright to pendent epiphyte. **Stems:** basally terete, to 1.5 cm long by 1.5 mm in diameter, gradually enlarging cylindrically into three nodes with a total length of approximately 6 cm long by 8 mm in diameter, grooved along the length of the pseudobulb; the apical portion of the stem is terete, branching, up to 30 cm long by 1 mm wide. **Leaves:** linear, appearing terete, with a “V”-shaped groove longitudinally, to 6 cm long by 1 mm in diameter. **Inflorescence:** single flowered, usually terminal or sub-terminal, appearing from short bracts. **Flower colour:** white with pink veins on all the floral segments. Ovary green, pedicel pink. Pseudobulbs are dark brown. **Dorsal sepal:** oblong, apex rounded and marginally reflexed, 4 mm long by 3 mm wide, three-veined. **Petals:** narrowly oblong, 5 mm long by 1.25 mm wide, single veined. **Lateral sepals:** broadly falcate, 1.5 cm long by 6 mm wide, four to five-veined. **Labellum:** narrow basally, broadening anteriorly, vaguely three lobed, side lobes rounded, mid lobe bilobed, slightly wavy, 1.3 cm long by 1.2 cm wide, multiple branching veins. There is no ornamentation on the labellum. **Pedicel and ovary:** ridged longitudinally, tapering gradually, 1.2 mm in diameter by 8 mm long.

**Habitat and distribution:** *Dendrobium butchcamposii* appears to be endemic to the Philippines, where it has been recorded from the province of Bukidnon, where it grows in exposed localities. It grows as an epiphyte at about 1,200 m. elevation, high up on the trees, in bright light. The flowers last in good condition for about five days. There is no discernible fragrance.

**Comparison:** *Dendrobium butchcamposii* is a rather unique member of section *Crumenata*. The flowers in general, resemble those of *Dendrobium hymenanthum* RCHB.F. from section *Bolbodium*, and those of *Dendrobium marivelense* AMES, from section *Strongyle*. The plant habit resembles that of *Dendrobium philippinense* AMES and *Dendrobium junceum* LINDL., but the plant of *Dendrobium butchcamposii* is considerably smaller than either of these species, with very fine, terete foliage.

This species is a member of section *Crumenata* PFITZ.

**Eymology:** It is our great pleasure to name this beautiful species in honour of Joselito “Butch” CAMPOS III, a tycoon, philanthropist and conservationist in the Philippines.

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