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***MITTHYRIDIDIUM CONSTRICTUM* (SULL.) ROBINS., NEW TO THAILAND AND OTHER CALYMPERACEAE (BRYOPHYTA) SPECIES FROM PHUKET AND ADJACENT REGION (THAILAND)**

Abstract – 6 *Calymperes*, 3 *Mitthyridium* and 1 *Syrrhopodon* species reported below from the Thailand collection of S.&T. Pócs. *Mitthyridium constrictum* is reported as new to Thailand.

Bryophyta / Calymperaceae / *Mitthyridium constrictum* / Thailand / Phuket region

INTRODUCTION

The bryophyte species of Calymperaceae family enumerated here were collected in Thailand from the Phuket Province, Thalang District, from Phang Nga Prov. and Distr. and Surat Thani Prov. Phanom District by Tamás Pócs and Sarolta Pócs during the period of January and February 2007. The species were identified by the Author and one set of voucher species is deposited in the Herbarium of Eszterházy College (EGR), and another set went to the Herbarium of Chulalongkorn University, Bangkok (BCU).

The distribution of enumerated species were analysed using the papers of Reese et al.(1986), Eddy (1990), the checklist Bryophytes in Thailand (R. Sornsamran and O. Thaitong 1995) and the electronic catalogue of Thai mosses prepared by the Missouri Botanical Gardens in 1995.

ENUMERATIO OF THE SPECIES

CALYMPERES Schwaegr.

***Calymperes afzelii* Swaegr.**

Phuket Prov.: Thalang Distr., E side of Khao Phra Thaeo National Park, around Bangpae waterfall, at 50-100 m alt. 08°02'18.1"N, 99°20'26.1"E. Seasonal lowland rainforest on granitic ground, with *Streblus ilicifolia*

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(Moraceae) dominant in the lower canopy and shrub layers. On rock cliff. Coll.: S.& T. Pócs No. 07001/B, F.

***C. boulayi* Besch. (*C.dozyanum* Mitt.)**

Phang Nga Prov. and Distr., Ao Phang Nga National Park, in the Phang Nga Bay, at 0-2 m alt. 08°24'22.13"N, 98°30'27.71"E. Mature mangrove forest with *Rhizophora mucronata*, *Avicennia officinalis*, *Xylocarpus moluccensis*, *X. granatum*, *Bruguiera parvifolia*, *Sonneratia alba* and *Nipa fruticans*. No epiphylls but quite many bryophytes on the bark. Ramicolous. Coll.: S.& T. Pócs No. 07010/P.

***C. erosum* C.Muell.**

Phang Nga Prov. and Distr., Song Prak Waterfalls area on the E side of Khao Plai Bang To Mountains, near Rong Kluang village, within Tonpariwat Wildlife Sanctuary, at 270-300 m alt. 08°36'46.6"N, 98°32'58.6"E. Seasonal lowland rainforest on siliciferous (sandstone?) bedrock, without epiphylls. On warty covered bark. Coll.: S.& T. Pócs No. 07017/E.

***C. motleyi* Mitt.**

Phuket Prov.: Muang Phuket Distr., top of Khao Rang Hill within the Phuket township area, around the view point, at 130 m alt. 07°53'34.7"N, 98°22'48.2"E. degraded semideciduous monsoon forest with epiphytic ferns (*Drinaria quercifolia*). Corticolous. Coll.: S.& T. Pócs No. 07004/B.

***C. palisotii* ssp. *moluccense* (Schwaegr.)Menzel**

Phang Nga Prov. and Distr., Ao Phang Nga National Park, in the Phang Nga Bay, at 0-2 m alt. 08°24'22.13"N, 98°30'27.71"E. Mature mangrove forest. Ramicolous. Coll.: S.& T. Pócs No. 07010/O.

C. palisotii* Schwaegr. ssp. *palisotii

Phuket Prov.: Kathu Distr., around Kathu Waterfalls 8 km NW of Phuket town, at 60 m alt. 07°55'57"N, 98°19'22.6"E. Lowland seasonal rainforest on granitic ground. On decaying wood. Coll.: S. & T. Pócs No 07003/C.

Phang Nga Prov. and Distr., Nam Tok Raman Forest Park with waterfalls, 6 km W of Phang Nga town, at 20-50 m alt. 08°27'03.1"N, 98°26'55.3"E. Lowland rainforest with *Dillenia indica* in the high canopy in a rocky streamlet valley on quartzite ground. Many epiphylls. On liana. Coll.: S. & T. Pócs No 07014/X.

MITTHYRIDIDIUM Robinson

**Mitthyridium constrictum* (Sull.)Robins. New to Thailand!

Phang Nga Prov. and Distr., Nam Tok Raman Forest Park with waterfalls, 6 km W of Phang Nga town, at 20-50 m alt. 08°27'03.1"N, 98°26'55.3"E. On Palm trunk. Coll.: S. & T. Pócs No 07014/J.

Widespread species: Cambodia; Philippines; Malaysia; Borneo; Carolines; Hawaii; Samoa; Society Islands; New Caledonia; Papua, New Guinea; New Hebrides; Louisiades; Australia, Queensland (Reese et al. 1986). Corticolous on trunks and branches in lowland rainforests. In the new locality in Thailand the species is living on palm trunk.

The combination of funnel-shape leaf tips and very broad border of hyaline cells at the leaf shoulders (almost or quite equalling the cancellinae in width) is characteristic for *M. constrictum* and therefore cannot be confused with any other species of the genus.

M. fasciculatum (Hook.f.& Grev.)Robins.

Surat Thani Prov.: Phanom Distr., at the S edge of Khao Sok National Park, WNW of Phanom in the gorge of Sok River, at 50 m alt. 08°52'50.6"N, 98°40'49.8"E. Plantations surrounded by carstic evergreen forest on limestone ground. On the trunks of planted betel palm (*Areca catechu*) at the edge of forest. Corticolous. Coll.: S. & T. Pócs No 07006/N. The specimen belongs to the var. *cardotii* (Fleisch.)Eddy.

M. repens (Harv.)Robins.

Phang Nga Prov. and Distr., Song Prak Waterfalls area on the E side of Khao Plai Bang To Mountains, near Rong Kluang village, within Tonpariwat Wildlife Sanctuary, at 270-300 m alt. 08°36'46.6"N, 98°32'58.6"E. Corticolous. Coll.: S.& T. Pócs No. 07017/F.

SYRRHOPODON Schwaegr.

S. croceus Mitt.

Phang Nga Prov. and Distr., Song Prak Waterfalls area on the E side of Khao Plai Bang To Mountains, near Rong Kluang village, within Tonpariwat Wildlife Sanctuary, at 270-300 m alt. 08°36'46.6"N, 98°32'58.6"E. Corticolous. Coll.: S.& T. Pócs No. 07017/C,D.

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<http://www.mobot.org/MOBOT/moss/Thailand/thailand.htm>