

Paweena Wessapak 2014: Taxonomy of Poaceae in Phu Chong Na Yoi National Park, Ubon Ratchathani Province. Master of Science (Botany), Major Field: Botany, Department of Botany. Thesis Advisor: Assistant Professor Chatchai Ngernsaengsaruy, Ph.D. 366 pages.

Taxonomic study of Poaceae in Phu Chong Na Yoi National Park, Ubon Ratchathani Province was conducted from October 2009 to December 2010. Field surveys and specimen collections were made along 8 routes representing 4 vegetation types at 160-430 m.s.l. of vegetation on open area, deciduous dipterocarp forest, dry evergreen forest and vegetation on open rock platform. Eighty-one species and 7 varieties with 49 genera 9 tribes and 5 subfamilies were identified. Subfamily Panicoideae (4 tribes 33 genera 58 species and 4 varieties), Chloridoideae (2 tribes 11 genera 15 species and 2 varieties), Centothecoideae (1 tribe 2 genera 3 species), Arundinoideae (1 tribe 1 genus and 3 species) and Bambusoideae (1 tribe 2 genera 2 species and 1 variety) are found, respectively. The genus *Digitaria* contains the highest number of species (6), followed by *Eragrostis* (5). Three species are endemic to Thailand namely *Eremochloa lanceolata*, *Parahyparrhenia laegaardii* and *Sacciolepis fenestrata*. Six species are confined to Indo-China region, i.e. *Digitaria petelotii*, *Digitaria thyrsoides*, *Eulalia tetraseta*, *Germainia thorelii*, *Kerriochloa siamensis* and *Tripogon thorelii*. One species, *Digitaria petelotii* is threatened as rare plant. The highest concentration of species are confined to vegetation on open area (28 species, 3 variety). The lower concentration of species are confined to dry evergreen forest (17 species, 1 variety), deciduous dipterocarp forest (13 species, 1 variety) and vegetation on open rock platform (1 species), respectively. Nine species and 2 varieties are found in both vegetation on open area and deciduous dipterocarp forest. Seven species are found in both deciduous dipterocarp forest and vegetation on open rock platform. Two species are found in both deciduous dipterocarp forest and dry evergreen forest. Two species are found in both vegetation on open area and dry evergreen forest. Three species are found in all 3 vegetation types, vegetation on open area, deciduous dipterocarp forest and vegetation on open rock platform.

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Student's signature

Thesis Advisor's signature