

REFERENCES

- ANSTRUTT, M. C., KJELBERG, F. AND BRONSTEIN, J. L. 1996. Waiting for wasps: consequence for the pollination dynamics of *Ficus pertusa*. *Journal of Biogeography*, 23 : 459–466.
- AUSTIN, M.P., J.G. PAUSAS, AND A.O. NICHOLLS. 1996. Patterns of tree species richness in relation to environment in south eastern, New South Wales. Australia. *Australian journal of ecology* 21:154-164.
- BANACK, S.A., MICHAEL H. HORN, AND ANNA GAWLICKA. 2002. Disperser-vs. Establishment-Limited Distribution of a Riparian Fig Tree (*Ficus insipida*) in a Costa Rican Tropical Rain Forest. *Biotropica* 34(2):232-243.
- BARKER N.P. 1985. Evidence of a volatile attractant in *Ficus ingens* (Moraceae). *Bothalia*, 15: 607-611.
- BECK N.G., LORD E.M. 1988. Breeding system in *Ficus carica*, the common fig. II. Pollination events. *American journal of botany*, 75:1913–1922.
- BENDIX J., ROLLENBECK R., RICHTER M., FABIAN P., AND EMCK P. 2008. Climate. In: Gradients in a tropical mountain ecosystem of Ecuador (Beck E, Bendix J, Kottke I, Makeschin F, Mosandl R, eds). Springer-Verlag, Berlin, pp. 63-74.
- BERG, C. C. 1989. Classification and distribution of *Ficus*. *Experientia* 45: 605-611.
- _____. 2003a. Flora Malesiana Precursor for the Treatment of Moraceae 2: *Ficus* Subgenus *Pharmacosycea* Section *Oreosycea*. *Blumea* 48: 155 - 200.
- _____. 2003b. Flora Malesiana Precursor for the Treatment of Moraceae 3: *Ficus* Subgenus *Ficus*. *Blumea* 48: 529 - 550.
- _____. 2003c. Flora Malesiana Precursor for the Treatment of Moraceae 4: *Ficus* Subgenus *Synoecia*. *Blumea* 48: 551 - 571.
- _____. 2003d. Flora Malesiana Precursor for the Treatment of Moraceae 5: *Ficus* Subgenus *Sycidium*. *Blumea* 48: 573 - 597.
- _____. 2004. Flora Malesiana Precursor for the Treatment of Moraceae 6: *Ficus* Subgenus *Sycomorus*. *Blumea* 49: 155 - 200.

- BERG, C.C., AND E. J. H. CORNER. 2005. Moraceae, *Ficus*. *Flora Malesiana* 17(2): 730p.
- BERG, C.C., PATTHARAHIRANTRICIN, N., AND CHANTARASUWAN, B. 2011. Moraceae. In: Santisuk, T., Larsen, K., Newman, M., Chayamarit, K. (Eds.), *Flora of Thailand*, vol. 10/Part 4. The forest herbarium, Department of national parks, Wildlife and plant conservation, Bangkok, Thailand, pp. 475–675.
- BRONSTEIN J.L. 1989. A mutualism at the edge of its range. *Experientia*, 45:622–639
- _____. 1991. The nonpollinating wasp fauna of *Ficus pertusa*: exploitation of a mutualism?. *Oikos*, 61:175–186.
- BRONSTEIN J.L. AND MCKEY D. 1989. The fig/ pollinator mutualism: a model system for comparative biology. *Experientia*, 45: 601–604.
- BUCKLAND S.T., AND ANDERSON D.R., BURNHAM K.P. AND LAAKE J.L. 1993. Distance sampling: estimating abundance of biological populations. London: Chapman and Hall.
- BUCKLAND S.T., AND ANDERSON D.R., BURNHAM K.P. LAAKE J.L., BORCHEERS D.L. AND THOMAS L. 2001. Introduction to distance sampling. Oxford: Oxford University Press. Clark D.A. and Clark D.B. (1992). Life history diversity of tropical trees. *Ecological Monograph*, 62: 315–344.
- BUCKLAND, S. T., ANDERSON, D. R., BURNHAM, K. P., AND LAAKE, J. L. 1993. *Distance sampling: estimating abundance of biological populations*. London: Chapman and Hall.
- CHANTARASUWAN BHANUMAS, DOKRAK MAROD, AND SURAPATTANAKIAT. 2007. Species diversity and habitat suitability assessment for genus *Ficus* in Mae Klong watershed research station, Amphoe Thong Pha Phum, Changwat Kanchanaburi. *The Thailand Natural History Museum Journal* 2(1): 43-54.
- CHOU, L.S., AND YEH, H.M. 1995. The pollination ecology of *Ficus aurantiacea* var. *parvifolia*. *Acta Zoologica Taiwanica*. 6: 1–12.

- CMU HERBARIUM DATABASE. 2000. *The trees of doi suthep-pui national park*. Unpublished output from Chiang Mai university herbarium database.
- CONDIT, R. 1947. *The fig*. 222 pp. Chronica Botanica Co., Waltham.
- CORNER, E. J. H. 1960. Taxonomic notes on *Ficus* Linn. Asia and Australasia. I-IV. *Garden's Bulletin. Singapore*, 17: 368-485.
- _____. 1963. *Ficus* in the Pacific Region. — Pac. Basin Biogeog. Symp. : 233-263
- _____. 1965. Checklist of *Ficus* in Asia and Australasia with keys to identification. *Garden's Bulletin. Singapore* 21 : 1-186.
- _____. 1969. The complex of *Ficus deltoidea*; A recent invasion of the Sunda Shelf. *Philosophical Transactions of the Royal Society of London* 256: 281-317.
- COMPTON S.G. 1996. The biology of fig trees and their associated animals. *Journal of Biogeography*, 23:405–607.
- CORLETT R.T. 1987. The phenology Of *Ficus fistulosa* in Singapore. *Biotropica*, 19 : 122-124.
- _____. 1995. Characteristics of vertebrate dispersed fruits in Hong Kong. *Journal of Tropical ecology*, 12: 819-833.
- COLWELL, R. K. AND Lees, D. C. 2000. The mid -domain effect: geometric constraints on the geography of species richness. *Trends in Ecology and Evolution* 15: 70-76.
- DA SILVA J.M.C., UHL C. AND MURRY G. 1996. Plant succession, landscape management, and the ecology of frugivorous birds in abandoned amazonian pastures. *Conservation Biology*, 10:491–503.
- DENSLOW J.S. AND HARTSHORN G.S. 1994. Tree-fall gap environments and forest dynamic processes. In: McDade, L.A. pp. 120–127.
- DICK, C. W., O. J. HARDY, F.A. JONES, AND R. J. PETIT. 2008. Spatial scales of pollen and seed-mediated gene flow in tropical rain forest trees. *Trop. Plant Biol.* 1: 20–33.
- EATRADA A., AND COATES-ESTRADA R. 1986. Frugivory by howling monkeys (*Alouatta palliata*) at Los Tuxtlas, Mexico: Dispersal and fate of seeds. In *frugivores and seed dispersal* (Ed. A. Estrada & T. H. Fleming). Junk, Dordrecht, Netherlands. pp 93-104.

- ELLIOT, S., ANUSARNSUNTHORN, V., AND BLAKESLEY, D. 1998. Forests for the future: Growing and planting native trees for restoring forest ecosystems. Within Design Co. Ltd, Chiang Mai. ELLIOTT, S., AND BLAKESLEY, D. 2003. Eden helps restore Thailand's tropical forests. *Eden Friends* 10, 33-35.
- EPPERSON, B. K. 1992. Spatial structure of genetic variation within populations of forest trees. *New For.* 6: 257-278
- FLEMIING T.H. AND HEITHAUS E.R. 1981. Frugivorous bats, seed shadows and the structure of tropical forests. *Biotropica*, 13 : 45-53.
- GAINES, W. L., HARROD, R. J., LEHMKUHL, J. F. 1999. Monitoring biodiversity: quantification and interpretation. Pacific Northwest Research Station. General Technical Report. PNW-GTR-443. 27 pp.
- GALIL, J. 1971. Pollination in dioecious figs: pollination of *Ficus fistulosa* by *Ceratosolen hewitti*. *Garden's Bulletin. Singapore* 21 26:303-311.
- _____. 1986. On the pollination ecology of *Ficus sycomorus* in East Africa. *Ecology* 49(2): 259-269.
- GALIL, J. AND EISIKOWITCH D. 1968. On the pollination ecology of *Ficus sycomorus* in East Africa. *Ecology*, 49(2): 259-269.
- GARDNER, S., SIDISUNTHORN, P., ANUSARNSUNTHORN, V. 2000. A field guide to forest trees of Northern Thailand. Bangkok: Kobfai Publishing Project.
- GASCON, C., G. B. WILLIAMSON, AND G. A. DAFONSECA. 2000. Receding forest edges and vanishing reserves. *Science* 288(5470): 1356-1358.
- GAUTIER-HION, A., AND MICHALOUD, G. 1989. Are figs always keystone resources for tropical frugivorous vertebrates? A test in gibbon. *Ecology* 70(6): 1826-1833.
- GILBERNAU M., HOSSAERT-MCKEY M., ANSTETT M.C. AND KAJELLBERG F. 1996. Consequences of protecting flowers in a fig: a one-way trip for pollinators?. *Journal of Biogeography*, 23(4):425-432.
- GREGORY, STANLEY V., FREDERICK J. SWANSON, W. ARTHUR McKEE, AND KENNETH, W. CUMMINS. 1991. An Ecosystem Perspective of Riparian Zones: Focus on links between land and water. *Bioscience* 41(8):540-

549.

- HAMILTON W.D. 1999. Wingless and fighting males in fig wasps and other insects. In: Reproductive Competition, Mate Choice and Sexual Selection in Insects (Ed. by M. S. Blum & N. A. Blum), London: Academic Press. pp. 167–220.
- HAMRICK, J. L., AND M. J. W. GODT. 1989. Allozyme diversity in plant species. In A. H. D. Brown, M. T. Clegg, A. L. Kahler, and B. S. Weir [eds.], Plant population genetics, *breeding and genetic resources*, 43–63. Sinauer, Sunderland, MA.
- HARDY, O. J., L. MAGGIA, E. BANDO, P. BREYNE, H. CARON, M.-H. CHEVALLIER, A. DOLIGEZ, C. DUTECH, A. KREMER, C. LATOUCHE-HALLE, V. T ROISPOUX, V. VERON, AND B. DEGEN. 2006. Fine-scale genetic structure and gene dispersal inferences in ten Neotropical tree species. *Mol. Ecol.* 15: 559–571.
- HARRISON R.D. 2003. Fig wasp dispersal and the stability of a keystone plant resource in Borneo. *Proceedings of the Royal Society of London, series B*, 270:76-79.
- _____. 2005. Figs and the diversity of tropical rainforests. *Bioscience*, 55: 1053–1064.
- HARRISON, R. D., AND SHANAHAN, M. 2005. Seventy-seven ways to be a fig: An overview of a diverse assemblage of figs in Borneo. Pages 111-127 (appendix 246-249) in D. W. Roubik, S. Sakai, and A. A. Hamid (eds). *Pollination Ecology and the Rain Forest Canopy: Sarawak Studies*. Springer Verlag, New York.
- HARRISON, R. D., HAMID, A. A., KENTA, T., LAFRANKIE, J., LEE, H. S., NAGAMASU, H., NAKASHIZUKA, T., and PALMIOTTO, P. 2003. The diversity of hemi-epiphytic figs (*Ficus*; Moraceae) in a Bornean lowland rain forest. *Biological Journal of the Linnean Society* 78: 439–455.
- HARRISON R.D., YAMAMURA N. AND INOUE T. 2000. Phenology of a common roadside fig in Sarawak. *Ecological Research*, 15:47–61.
- HARMS, K. E., CONDIT, R., HUBBELL, S. P., AND FOSTER, R. B. 2001. Habitat associations of trees and shrubs in a 50-ha neotropical forest plot. *J. Ecol.* 89:947-959.

- HEARTSILL SCALLEY, TAMARA, CROWL, TODD A. AND THOMPSON, JILL. 2009. Tree species distributions in relation to stream distance in mid-montane wet forest, Puerto Rico. *Caribbean Journal of Science* 45(1): 52-63.
- HERRE, E. A. 1987. An overview of studies on a community of Panamanian figs. *Journal of Biogeography* 23:593–607.
- HERRE, E.A., JANDER, K.C. AND MACHADO. 2008. Evolutionary ecology of figs and their associates: Recent progress and outstanding puzzles. *Annual Review of Ecology Evolution and Systematics*.39: 439–458.
- HILL D. 1967. Figs (*Ficus* spp.) and fig wasps (*Chalcidoidea*). *Journal of Natural History*, 1: 413-434.
- HOOD, W. G., AND NAIMAN, R. J. 2000. Vulnerability of riparian zones to invasion by exotic vascular plants. *Plant Ecology* 148: 105-114.
- HOSSAERT-McKEY, M., BRONSTEIN, J. L. 2001. Self-pollination and its costs in a monoecious fig (*Ficus aurea*, Moraceae) in a highly seasonal subtropical environment. *Am. J. Bot.* 88:685–92.
- HOSSAERT-McKEY M., GIBERNAU M. AND FREY J.E. 1994. Chemosensory attraction of fig wasps to substances produced by receptive figs. *Applied Entomology Experience*, 70:185– 191.
- HUI Y., NAN X.Z., YI Z.C., YUAN D., JIN Y.Y. AND HUA G.Y. 2006. Phenology and reproductive strategy of a common fig in Guangzhou. *Botanical Studies*, 47: 435-441.
- HUI YU, NANXIAN ZHAO, YIZHU CHEN AND EDWARD ALLEN HERRE. 2008. Male and female reproductive success in the dioecious fig, *Ficus hirta* Vahl. in Guangdong Province, China: Implications for the relative stability of dioecy and monoecy. *Symbiosis* 45: 121–128.
- ILHARDT, B. L., E. S. VERRY, AND B. J. PALIK. 2000. Defining riparian areas. In: *Forestry and the riparian zone: Conf. Proc. R.G. Wagner and J.M. Hagan* (editors). October 26, 2000. Wells Conference Center, Univ. Maine, Orono, Maine, pp. 7–10.

- JANSSON, R., ZINKO, U., MERRITT, DM., NILSSON, C. 2005. Hydrochory increases riparian plant species richness: a comparison between a free-flowing and a regulated river. *Journal of Ecology*, 93:1094-1103.
- JANZEN, D. H. 1979. How to be a fig. *Annu. Rev. Ecol. Syst.* 10:13–51
- JOUSSELING E. AND KJELLBERG F. 2001. The functional implications of active and passive pollination in dioecious figs. *Ecology Letters*, 4:151–158.
- JOUSSELIN E., RASPLUS J. AND KJELLBERG F. 2003. Convergence and coevolution in a mutualism: evidence from a molecular phylogeny of *Ficus*. *Evolution*, 57:1255–1269. pp. 120-127.
- KELVIN S. PEH H. AND FONG L.C. 2003. Seed dispersal agents of two *Ficus* species in a disturbed tropical forest. *Ornithological science*, 2: 119-125.
- KERDELHUE, C., ROSSI, J. P., AND J. Y. RASPHUS. 2000. Comparative community ecology studies on Old World figs and fig wasps. *Ecology* 81(10) : 2832-2849.
- KJELLBERG F., GOUYON P.H., IBRAHIN M., RAYMOND M. AND VALDEYRON G. 1987. The stability of the symbiosis between dioecious figs and their pollinators: a study of *Ficus carica* L and *Blastophaga psenes* L. *Evolution*, 41(4) : 693-704.;
- KJELLBERG F. AND MAURICE S. 1989. Seasonality in the reproductive phenology of *Ficus*—its evolution and consequences. *Experientia*, 45: 653–660.
- KWANYUEN, B. 2000. Comparison of HEC-HMS model and Top model for runoff prediction in Lampachi Basin. Kamphaengsaen. *Acad. J.* 1, 49–55.
- KWANYUEN, B. 2000. Comparative study of rainfall change in the North of Thailand. In: Proceedings of International Conference on The Chao Praya delta: Historical development, dynamics and challenges of Thailand Rice Bowl., Kasetsart University, Bangkok, Vol.1, pp. 369-378.
- KUARAKSA, D., ELLIOTT, S. AND HOSSAERT-MACKEY, M. 2012. The phenology of dioecious *Ficus* spp. tree species and its importance for forest restoration projects. *Forest Ecology and Management*, 265: 82-93.
- LAMBERT F.R. 1989. Fig-eating by birds in a malaysian lowland forest. *Journal of Tropical ecology*, 5: 401-412.

- _____. 1991. The conservation of fig-eating birds in Malaysia. *Biological Conservation*, 58 : 31-40.
- LAMBERT F.R. AND MARSHALL A.G. 1991. Keystone characteristics of bird-dispersed *Ficus* in a malaysian lowland rain forest. *Journal of Tropical ecology*, 79 : 793-809.
- LAMAN, T. AND WEIBLEN, G. 1999. Figs of Gunung Palung National Park (West Kalimantan, Indonesia). *Tropical Biodiversity* 5, 245-297.
- LYON, J. AND C. L. SAGERS. 1998. Structure of herbaceous plant assemblages in a forested riparian landscape. *Plant Ecol.* 138:1-16.
- MACHADO C.A., JOUSSELIN E., KJELLBERG F., COMPTON S.G. AND HERRE E.A. 2001. Phylogenetic relationships, historical biogeography and character evolution of fig pollinating wasps. *Proceedings of the royal society, B* 268:685–694.
- MA, M. 2005. Species richness vs. evenness: independent relationship and different responses to edaphic factors. *Oikos* 111:192–198
- MAGURRAN, A. E. 1998. Ecological diversity and its measurement, princeton university press, Princeton, 179 pp.
- MARKS, D., K. R. COOLEY, D. C. ROBERTSON, and A. Winstral. 2000. Snow monitoring at the Reynolds Creek Experimental Watershed, Idaho, USA, U.S. Dept. of Agriculture, Agricultural Research Service, Northwest Watershed Research Center, Boise, ID, Technical Bulletin NWRC 2000-5.
- MAXWELL, J. F. 1988. The vegetation of Doi Suthep-Pui National Park, Chiang Mai Province, Thailand. *Tigerpaper* (FAO) 15:4, 6-14.
- _____. 1992. Botanical notes on the flora of Northern Thailand: 3. *Nat. Hist. Bull. Siam Soc.* 40:2, 185-189.
- MAXWELL, J. F., AND ELLIOT, S. 2001. Vegetation and vascular flora of Doi Suthep-Pui National Park, Chiang Mai Province, Thailand. Thai Studies in Biodiversity. Biodiversity Research and Training Programme, Bangkok.
- METCALFE, D. J., AND TURNER, I. M. 1998. Soil seed bank from lowland rain forest in Singapore: canopy-gap and litter-gap demanders. *Journal of Tropical Ecology* 14: 103-108.

- MCKEY D. 1989. Population biology of figs: application for conservation. *Experientia*, 45: 661-673.
- MILLA, R., CASTRO-DIEZ, P. MAESTRO-MARTINEZ, M., MONTSERRAT-MARTI, G. 2006. Costs of reproduction as related to the timing of phenological phases in the dioecious shrub *Pistacea lentiscus* L. *Plant Biology*. 2006;8:103–111.
- MILTON K., WINDSOR D.M., MORRISON D.W. AND ESTRIBI M. 1982. Fruiting phenologies of two neotropical *Ficus* species. *Ecology*, 63:752-762.
- MIQUEL F. A. W. 1867. Annotationes de *Ficus* speciebus. *Annales Musei Botanici Lugduno-Batavi* 3:260–300.
- MOE, A.M. AND WEIBLEN, G.D. 2010. Molecular divergence in allopatric *Ceratosolen* pollinators (Agaonidae) of geographically widespread *Ficus* (Moraceae) species. *Annals of the Entomological Society of America*. 103, 1025-1037.
- MONKOLSAWAT, C. 2008. Estimating riparian forest in the watershed areas of Northeast Thailand: Application of SPOT Data. Symposium III, GIS/GPS/RS: Applications in natural resource and environment management.
- MUNISHI, L. K. 2007. The distribution and diversity of tree resource outside forest in Southern side of Mount Kilimanjaro. *Discov. Innov.* Vol. 19 (special edition 1&2).
- MURRAY M.G. AND THOMPSON W.F. 1980. Rapid isolation of high molecular weight plant DNA. *Nucleic Acids Research*, 8 : 4321–4325.
- NAIMAN, R. J., AND H. DECAMPS. 1997. The ecology of interfaces riparian zones. *Annual Review of Ecology and Systematics* 28:621-658.
- NAIMAN, R. J., DÈCAMPS, H., AND MCCLAIN, M. E. 2005. *Riparia*. Ecology, conservation, and management of streamside communities. San Diego, USA: Elsevier Academic Press. 345 pp.
- NAIMAN, R. J., R.E. BILBY, AND P. A. BISSON. 2000. Riparian ecology and management in the Pacific coastal rain forest. *BioScience* 50:996-1011.
- NAIMAN, R. J., DÈCAMPS, H., AND POLLOCK, M. 1993. The role of riparian corridors in maintaining regional diversity. *Ecological Applications* 3:209-

- NASON, J. D., HERRE, E. A., AND HAMRICK, J. L. 1998. The breeding structure of a tropical keystone plant resource. *Nature* 391:685–87.
- NAVEH, Z. AND Whittaker, R. H. 1980. Structural and floristic diversity of shrub lands and wood lands in northern Israel and other Mediterranean areas. *Plant Ecol.*, 41 (3), 171-190.
- NEWSTROM L. E. FRANKIE, G. W. and BAKER, H. G. 1994. A new Classification for plant phenology based on flowering patterns in lowland tropical rain forest trees at La Selva, Costa Rica. *Biotropica*, Vol. 26, No. 2 (Jun., 1994), pp. 141-159.
- NILSSON, D. AND SVEDMARK, M. 2002, Basic principles and ecological consequences of changing water regimes: riparian plant communities. *Environmental Management* 30:468–80.
- NORTON, D. A. AND MILLER, C. J. 2000. Some issues and options for the conservation of native biodiversity in rural New Zealand. *Ecological Management and Restoration* 1, 26-34.
- PATEL A. 1996). Variation in a mutualism: Phenology and the maintenance gynodioecy in two indian fig species. *Journal of Ecology*, 84: 667-680.
- PATEL A. AND MCKEY D. 1998. Sexual specialization in two tropical dioecious figs. *Oecologia*, 100:13–20.
- PATEL A. AND HOSSAERT-MCKEY M. 2000. Ficus-pollinator research in India: past, present and future. *Current science*, 65(3):243-253.
- PEREIRA R.A.S., RODRIGUES E. AND MENEZES JE, A.O. 2007. Phenological patterns of *Ficus citrifolia* (Moraceae) in a seasonal humid-subtropical region in Southern Brazil. *Plant ecology*, 188: 265-275.
- PETTS, G. E. 1990. Forested river corridors: a lost resource. In water, engineering and landscape: Water and Control and Landscape Transformation in the Modern Period, Belhaven, London 12–34.

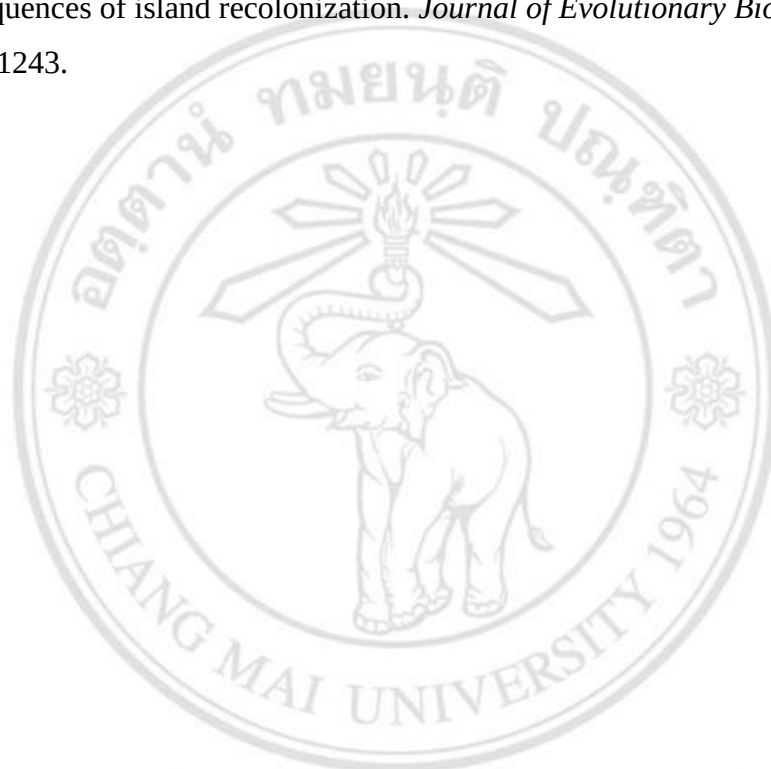
- PINAY, G., DÈCAMP, H., CHAUVET, E. AND FUSTEC, E. 1990. Function of ecotones in fluvial systems. In *Land/Inland water ecotones: strategies for research and management*. pp.141-169. Edited by R.J. Naiman and H. D&s. Unesco Parthenon Press, London.
- PRACH, K., SANDOR, B., JOYCE, C. B., PYSEK, P., VAN DIGGELEN, R., AND WIEGLEB, G. 1996. The role of spontaneous vegetation succession in ecosystem restoration: A perspective. *Appl. Veg. Sci.* 4:111–114.
- RAMIREZ, W. 1969. Fig wasps: mechanisms of pollen transfer. *Science* 163:580–81
- _____. 1970. Host specificity of fig wasps (Agaonidae). *Evolution*, 24: 680-691.
- RESTREPO C., GOMEX N. AND HEREDIA S. 1999. Anthropogenic edges, treefall gaps, and fruit–frugivore interactions in a neo-tropical montane forest. *Ecology*, 80 : 668–685.
- RIDLEY, H. N. 1924. The Flora of the Malay Peninsula. Vol.3. *Apetalae* 325-350.
- RISE, L., AND T. D. SISK. 2004. A predictive model of edge effects. *Ecology* 85:2917-2926.
- SABO, J. L., R. SPONSELLER, M. DIXON, K. GADE, T. HARMS, J. HEFFERNAN, A. JANI, G. KATZ, C. SOYKAN, J. WATTS, AND J. WELTER. 2005. Riparian zones increase regional species richness by harboring different, not more, species. *Ecology* 86:56-62.
- SANTISUK, T., 1998. An account of the vegetation Northern Thailand. Franz Steiner Verlag Weisbaden GmbH, Stuttgart.
- SHANAHAN, M. COMPTON, S.G., CORLETT, R. 2001. Fig-eating by vertebrate frugivores: A global review. *Biological Reviews* 76: 529–572.
- SHANNON, C.E., AND Weaver, W. 1949. The mathematical theory of communication. Urbana: University of Illinois Press.
- SIMPSON, E. H. 1949. Measurement of diversity. *Nature* 163: 688
- SORK, V. L., AND P. E. SMOUSE. 2006. Genetic analysis of landscape connectivity in tree populations. *Landscape Ecol.* 21: 821–836.
- SPECNER H., WEIBLEN G. AND FLICK B. 1996. Phenology of *Ficus variegata* in a seasonal wet tropical forest at Cape Tribulation, Australia. *Journal of Biogeography*, 23: 467-475.

- SMITINAND, T. 1989. Floristic inventory of tropical countries: Thailand. D.G. Campbell and H. D. Hammond eds. New York Botanical Garden, New York, 84-81.
- STATA CORP. 2007. Stata Statistical Software: Release 10. College Station, TX: StataCorp LP.
- STOCKWELL HENDRY C.A. AND KINNISON A.P. 2003. Contemporary evolution meets conservation Biology. *Trends in Ecology & Evolution*, 18 (2): 94-101.
- TABACCHI, E., LAMBS, L., GUILLOY, H., PLANTY-TABACCHI, A., MULLER, E. AND DÈCAMPS, H. 2000. Impacts of riparian vegetation on hydrological processes. *Hydrol Process* 14, 2959-2976.
- TANG, S. M., AND D. E. MONTGOMERY. 1995. Riparian buffers and potentially unstable ground. *Environmental Management* 19(5):741-749.
- THAI METEOROLOGICAL DEPARTMENT. 2002. Meteorological data at Chiang Mai Province station. Ministries of Information and Communication Technology.
- THOMPSON, J., N. V/L. BROKAW, J. K. ZOMMERMAN, R. B. WAIDE, E. M. EVERHAMIII, D. J. LODGE, C. M. TAYLOR, D. GARCIA-MONTIEL, AND M. FLUET. 2002. Land use history, environment, and tree composition in tropical forest. *Ecol. Appl.* 12(5): 1344-1363.
- VALENCIA, R., R. B. FOSTER, G. VILLA, R. CONDIT, J. C. SVENNING, C. HERNANDEZ, K. ROMOLEROUX, E. LOSOS, E. MAGARD, AND H. BALSLEV. 2004. Tree species distributions and local habitat variation in the Amazon: large forest plot in eastern Ecuador. *J. Ecol.* 92(2):214-230.
- VALDEYRON G. AND LOYD D.G. 1979. Sex differences and flowering phenology in the common fig, *Ficus carica* L. *Evolution*, 33:673-685.
- VAN NOORT S., AND COMPTON, S. G. 1996. Convergent evolution of agaonine and sycoecine (Agaonidae, Chalcidoidea) head shape in response to the constraints of host fig morphology. *J. Biogeogr.* 23:415-24.

- VAN SCHAIK C.P., TERBORGH J.W. AND WRIGHT S.J. 1993. The phenology of tropical forests - adaptive significance and consequences for primary consumers. *Annual Review of Ecology and Systematics*, 24 : 353–377.
- VERKERKE W. 1987. Syconial anatomy Of *Ficus asperifolia* (Moraceae), A gynodioecious tropical fig. *Proceeding of The Koninklijke Nederlandse Akademie Van Wetenschappen C*, 90 : 461-492.
- _____. 1989. Structure and function of the fig. *Experientia* 45:612–21
- WANG R., AI B., GAP B.Q., YU S., LI Y.Y., CHAN X.Y. 2009. Spatial genetic structure and restricted gene flow in a functionally dioecious fig, *Ficus pumila* L. var. *pumila* (Moraceae). *Population Ecology*. 51: 307–315.
- WANG R.W., YANG C.Y., ZHAO G.F. AND YANG J.X. 2005. Fragmentation effects on diversity of wasp community and its impact on fig/fig wasp interaction in *Ficus racemosa* L. *Journal of Integrate Plant Biology*, 47 : 20–26.
- WARE A.B. AND COMPTON S.G. 1994. Responses of fig wasps to host plant volatile cues. *Journal of Chemical Ecology*, 20:785–802.
- WEIBLEN G.D. 1995. Variation in reproductive success of gynodioecious figs and their pollinators in New Guinea. In D. S. Edwards [eds.], *Tropical Rainforest Research*. Kluwer Press. pp 283-289.
- _____. 2000. Phylogenetic relationships of functionally dioecious *Ficus* (Moraceae) based on ribosomal DNA sequence variation and morphology. *American Journal of Botany*, 87 : 1342-1357.
- _____. 2002. Oviposition strategies, host coercion, and the stable exploitation of figs by wasps. *Proceedings of the Royal Society of London, series B, series B* 271: 1185-1195.
- WEST S.A. AND HERRE E.A. The ecology of the New World fig-parasitizing wasps *Idarnes* and implications for the evolution of the fig-pollinator mutualism. *Proceedings of the Royal Society of London, series B*, 258:67–72.
- WEST S.A., HERRE E.A., WINDSOR D.M. AND PRS GREEN. 1996. The ecology and evolution of New World non-pollinating fig wasp communities. *Journal of Biogeography*, 23: 447-458.

- WHITTAKER, R. J. 1995. Surface and buried seed banks from Krakatau, Indonesia: Implications for the sterilization hypothesis. *Biotropica* 27: 346–354.
- WHITMORE, T. C. 1984. Tropical rain forests of the far east, 2nd. Clarendon Press, Oxford, 352 pp.
- WIEBES, J. T. 1979. Co-evolution of figs and their insect pollinators. *Annual Review of Ecology and Systematics* 10:1–12.
- WILCKE W., YASIN S., SCHMITT A., VALAREZO C. AND ZECH W. 2008. Soils along the altitudinal transect and in catchments. In: Gradients in a tropical mountain ecosystem of Ecuador (Beck E, Bendix J, Kottke I, Makeschin F, Mosandl R eds). Springer-Verlag, Berlin. pp. 75-86.
- WINTLE, B. C. AND KIRKPATRICK, J. B. 2007. The response of riparian vegetation to flood-maintained habitat heterogeneity. *Austral Ecology*. 32.
- WISSMAR, R.C. AND F.J. SWANSON.1990. Landscape disturbance and lotic ecotones. In: Naiman, R.J. and H. Decamps (eds.), The ecology and management of aquatic-terrestrial ecotones. Unesco and the Parthenon Publishing Group. Paris, France. pp. 65-89.
- WOOD, S.H., A. D. ZIEGLER. 2008. Floodplain sediment from recent 50-year-recurrence floods of the Ping River in northern Thailand. *Hydrology and Earth Systems Science* 12: 959-973.
- YAN CHEN, AHU-XI, COMPTON S.G., MIN LIUA AND KIAO-YONG CHENA. 2008. Genetic diversity and differentiation of the extremely dwarf *Ficus tikoua* in Southwestern China. *Biochemical Systematics and Ecology*. 39 (2011) 441–448.
- YAND D., LI C. AND YANG B. 2002. Studies on animal structure and biodiversity on *Ficus* in the tropical rain forest of Xishuangbanna, China. *Zoological Research*, 18 : 189-196.
- YU D. W., RIDLEY J., JOUSSELIN E., HERRE E.A., COMPTON S.G., COOK J.M., MOORE J.C. AND WEIBLEN G.D. 2003. Oviposition strategies, host coercion, and the stable exploitation of figs by wasps. *Proceedings of the Royal Society of London*, series B, 271: 1185-1195.

- YU TZENG, YUAN FU, HSIUNG CHERN, CHERNG KING AND JUNG LI. 2006
Pollinational-mutualism strategy of *Ficus erecta* var. *beeheyana* and
Blastophaga nipponica in seasonal guandaushi Forest ecosystem, Taiwan.
Botanical Studies. 47: 307-318.
- ZAVODNA, M., ARENS, P., VAN DIJK, P.J., PARTOMIHARGJO, T. VOSMAN,
B. AND VAN DAMME, J.M.M. 2005. Pollinating fig wasps: genetic
consequences of island recolonization. *Journal of Evolutionary Biology*. 18:
1234–1243.



ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved

LIST OF PUBLICATIONS

- 1) Pornwiwan Pothasin, Stephen G. Compton, Prasit Wangpakapattanawong, Riparian *Ficus* Tree Communities: The Distribution and Abundance of Riparian Fig Trees in Northern Thailand, PlosONE 9(10): e0108945, Doi:10.1371/journal.pome.0108945, <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0108945>, October 13, 2014
- 2) Pornwiwan Pothasin, Stephen G. Compton, Prasit Wangpakapattanawong, Seasonality of Leaf and Fig Production in *Ficus Squamosa*, A Fig Tree with Seeds Dispersed by Water, PlosONE 11(3): e0152380, Doi:10.1371/journal.pome.0152380, <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0152380>, March 24, 2016.

ลิขสิทธิ์มหาวิทยาลัยเชียงใหม่
Copyright© by Chiang Mai University
All rights reserved