

Palm Research in 2006

COMPILED BY
WILLIAM J. BAKER,
*Herbarium, Royal Botanic
Gardens, Kew, Richmond,
Surrey,
TW9 3AE, UK*

Books

BAKER, W.J. AND J. DRANSFIELD. 2006. Field Guide to the Palms of New Guinea. Royal Botanic Gardens, Kew. 108 pp. Indonesian translation by A.P. Keim also available [Sebuah Panduan Lapangan untuk Palem New Guinea].

CUCCUINI, P. AND C. NEPI. 2006. The Palms of Odoardo Beccari. Regione Siciliana, Palermo.

DRANSFIELD, J., H. BEENTJE, A. BRITT, T. RANARIVELLO AND J. RAZAFITSALAMA. 2006. Field Guide to the Palms of Madagascar. Royal Botanic Gardens, Kew. 172 pp. Malagasy translation also available [Toro-lalan'ireo Satrapotsy (Palmier) eto Madagasikara].

GRAU, J. 2006. Palms of Chile: a detailed investigation of the two endemic palms and a review of introduced species. Ediciones Oikos, Santiago de Chile. 203 pp.

MORENO SUÁREZ, L.R. AND O.I. MORENO SUÁREZ. 2006. Colecciones de las palmeras de Bolivia: Palmae - Arecaceae. Editorial FAN, Santa Cruz de la Sierra, Bolivia. 576 pp.

Conference Proceedings

BAKER, W.J. AND S. ZONA. (Eds.) 2006. The Palms – Proceedings of an International Symposium on the Biology of the Palm Family. Bot. J. Linn. Soc. 151 (1).

Articles

ADAM, H., S. JOUANNIC, F. MORCILLO, F. RICHAUD, Y. DUVAL AND J.W. TREGEAR. 2006. MADS box genes in oil palm (*Elaeis guineensis*): Patterns in the evolution of the SQUAMOSA, DEFICIENS, GLOBOSA, AGAMOUS, and SEPALLATA subfamilies. J. Mol. Evol. 62: 15–31.

ASMUSSEN, C.B., J. DRANSFIELD, V. DEICKMANN, A.S. BARFOD, J.C. PINTAUD AND W.J. BAKER. 2006. A new subfamily classification of the palm family (Arecaceae): evidence from plastid DNA phylogeny. Bot. J. Linn. Soc. 151: 15–38.

BACON, C.D. AND C.D. BAILEY. 2006. Taxonomy and conservation: A case study from *Chamaedorea alternans*. Ann. Bot. (Oxford) 98: 755–763.

BAKER, W.J., S. ZONA, C.D. HEATUBUN, C.E. LEWIS, R.A. MATURBONGS AND M.V. NORUP. 2006.

Dransfieldia (Arecaceae) – A new palm genus from western New Guinea. Syst. Bot. 31: 61–69.

BAYTON, R.P., A. OUEDRAOGO AND S. GUINKO. 2006. The genus *Borassus* (Arecaceae) in West Africa, with a description of a new species from Burkina Faso. Bot. J. Linn. Soc. 150: 419–427.

BECK, H. 2006. A review of peccary-palm interactions and their ecological ramifications across the Neotropics. J. Mammal. 87: 519–530.

BERNAL, R. AND G. GALEANO. 2006. Endangerment of Colombian palms (Arecaceae): change over 18 years. Bot. J. Linn. Soc. 151: 151–163.

BJORHOLM, S., J.C. SVENNING, W.J. BAKER, F. SKOV AND H. BALSLEV. 2006. Historical legacies in the geographical diversity patterns of New World palm (Arecaceae) subfamilies. Bot. J. Linn. Soc. 151: 113–125.

BONAFONT, A. 2006. Replicating and transplanting specimen palms. QEJ. Bricojardinería & Paisajismo 141: 10–14.

BRIDGEWATER, S.G.M., P. PICKLES, N.C. GARWOOD, M. PENN, R.M. BATEMAN, H.P. MORGAN, N. WICKS AND N. BOL. 2006. *Chamaedorea* (Xate) in the Greater Maya Mountains and the Chiquibul Forest Reserve, Belize: An economic assessment of a non-timber forest product. Econ. Bot. 60: 265–283.

BULLOCK, S.H. AND D. HEATH. 2006. Growth rates and age of native palms in the Baja California desert. J. Arid Environ. 67: 391–402.

BYG, A. AND H. BALSLEV. 2006. Palms in indigenous and settler communities in southeastern Ecuador: Farmers' perceptions and cultivation practices. Agrofor. Syst. 67: 147–158.

CARRINGTON, M.E. AND J.J. MULLAHEY. 2006. Effects of burning season and frequency on saw palmetto (*Serenoa repens*) flowering and fruiting. For. Ecol. Managem. 230: 69–78.

CHARLO, H.C.D.O., F.V. MÓRO, V.L.D. SILVA, B.M.D. SILVA E SILVA, S. BIANCO AND J.R. MÓRO. 2006. Morphological aspects, germination and initial seedling development of *Archontophoenix alexandrae* (F. Mueller) H. Wendl. e Drude (Arecaceae) in different substrates. Rev. Árv. 30: 933–940.

- CHRISTIANINI, A.V. 2006. Fecundity, dispersal and predation of seeds of *Archontophoenix cunninghamiana* H. Wendl. & Drude, an invasive palm in the Atlantic forest. *Rev. Brasil. Bot.* 29: 587–594.
- COUVREUR, T.L.P., N. BILLOTTE, A.M. RISTERUCCI, C. LARA, Y. VIGOUROUX, B. LUDENA, J.L. PHAM AND J.C. PINTAUD. 2006. Close genetic proximity between cultivated and wild *Bactris gasipaes* Kunth revealed by microsatellite markers in Western Ecuador. *Genet. Resour. Crop Evol.* 53: 1361–1373.
- EHARA, H., M. MATSUI AND H. NAITO. 2006a. Avoidance mechanism of salt stress in sago palm (*Metroxylon sagu* Rottb.). *Jap. J. Trop. Agric.* 50: 36–41.
- EHARA, H., M.M. HARLEY, W.J. BAKER, J. DRANSFIELD, H. NAITO AND C. MIZOTA. 2006b. Morphology of pollen grains obtained from dried specimens of spiny and spineless sago palms grown at distant sites in Indonesia. *Jap. J. Trop. Agric.* 50: 121–126.
- ENDRESS, B.A., D.L. GORCHOV AND E.J. BERRY. 2006. Sustainability of a non-timber forest product: Effects of alternative leaf harvest practices over 6 years on yield and demography of the palm *Chamaedorea radicalis*. *For. Ecol. Managem.* 234: 181–191.
- FERREIRA, S.A.D.N. AND D.F.D.O. GENTIL. 2006. Extraction, imbibition and germination of *Astrocaryum aculeatum* seeds. *Acta Amazon.* 36: 141–146.
- FLEURY, M. AND M. GALETTI. 2006. Forest fragment size and microhabitat effects on palm seed predation. *Biol. Conserv.* 131: 1–13.
- GALETTI, M., C.I. DONATTI, A.S. PIRES, P.R. GUIMARAES AND P. JORDANO. 2006. Seed survival and dispersal of an endemic Atlantic forest palm: the combined effects of defaunation and forest fragmentation. *Bot. J. Linn. Soc.* 151: 141–149.
- GOMES, P.B., I.F.M. VÁLIO AND E.R. MARTINS. 2006. Germination of *Geonoma brevispatha* (Arecaceae) in laboratory and its relation to the palm spatial distribution in a swamp forest. *Aquat. Bot.* 85: 16–20.
- GONZÁLEZ-BENITO, M.E., M. HUERTAS-MICÓ AND F. PÉREZ-GARCÍA. 2006. Seed germination and storage of *Chamaerops humilis* (dwarf fan palm). *Seed Sci. Technol.* 34: 143–150.
- GUNAWARDENA, A. AND N.G. DENGLER. 2006. Alternative modes of leaf dissection in monocotyledons. *Bot. J. Linn. Soc.* 150: 25–44.
- GURGEL-GONÇALVES, R., A.R.T. PALMA, P.C. MOTTA, M.E. BAR AND C.A.C. CUBA. 2006. Arthropods associated with the crown of *Mauritia flexuosa* (Arecaceae) palm trees in three different environments from Brazilian Cerrado. *Neotrop. Entomol.* 35: 302–312.
- HARLEY, M.M. 2006. A summary of fossil records for Arecaceae. *Bot. J. Linn. Soc.* 151: 39–67.
- HENDERSON, A. 2006a. Traditional morphometrics in plant systematics and its role in palm systematics. *Bot. J. Linn. Soc.* 151: 103–111.
- HENDERSON, A. 2006b. A new species of *Arenga* (Palmae). *Taiwania* 51: 298–301.
- HENDERSON, F.M. AND D.W. STEVENSON. 2006. A phylogenetic study of Arecaceae based on seedling morphological and anatomical data. *Aliso* 22: 251–264.
- HENDERSON, S.A., N. BILLOTTE AND J.C. PINTAUD. 2006. Genetic isolation of Cape Verde Island *Phoenix atlantica* (Arecaceae) revealed by microsatellite markers. *Conservation Genet.* 7: 213–223.
- HODEL, D.R., A.J. DOWNER, D.R. PITTINGER AND P.J. BEAUDOIN. 2006. Effect of amended backfill soils when planting five species of palms. *HortTechnol.* 16: 457–460.
- IOSSI, E., F.V. MORO AND R. SADER. 2006. Seed anatomy and germination of *Phoenix roebelenii* O'Brien (Arecaceae). *Revista Brasil. Sementes* 28: 121–128.
- ISNARD, S. 2006. Biomechanics and development of rattans: what is special about *Plectocomia himalayana* Griff. (Calamoideae, Plectocomiinae)? *Bot. J. Linn. Soc.* 151: 83–91.
- KONAN, E.E., T. DURAND-GASSELIN, J.Y. KOUADIO, A. FLORI AND A. RIVAL. 2006. A modeling approach of the in vitro conversion of oil palm (*Elaeis guineensis*) somatic embryos. *Pl. Cell Tissue Organ Cult.* 84: 99–112.
- KREFT, H., J.H. SOMMER AND W. BARTHLOTT. 2006. The significance of geographic range size for spatial diversity patterns in Neotropical palms. *Ecography* 29: 21–30.
- LAUBE, S. AND G. ZOTZ. 2006. Long-term changes of the vascular epiphyte assemblage on the palm *Socratea exorrhiza* in a lowland forest in Panama. *J. Veg. Sci.* 17: 307–314.
- LEIVA SÁNCHEZ, A. 2006. Notes on Cuban native palms. *Willdenowia* 36: 507–513.
- LIDDLE, D.T., B.W. BROOK, J. MATTHEWS, S.M. TAYLOR AND P. CALEY. 2006. Threat and response: A decade of decline in a regionally endangered rainforest palm affected by fire and introduced animals. *Biol. Conserv.* 132: 362–375.
- LONGO, S. 2006. The Asian red palm weevil, a serious pest of Canary palm in Sicily. *Inform. Fitopatol.* 56: 40–44.

- LOO, A.H.B., J. DRANSFIELD, M.W. CHASE AND W.J. BAKER. 2006. Low-copy nuclear DNA, phylogeny and the evolution of dichogamy in the betel nut palms and their relatives (Arecinae; Arecaceae). *Mol. Phylogenet. Evol.* 39: 598–618.
- LUZ, P.B.D., A.R. TAVARES, P.D.D.O. PAIVA, L.A.L. MASSOLI, F.E.A. AGUIAR, S. KANASHIRO, G.C. STANCATO AND P.R.C. LANDGRAF. 2006. Effects of nitrogen, phosphorus and potassium on early growth of seedlings of *Rhapis excelsa* (Thunberg) Henry ex. Rehder (Lady Palm). *Ci. Agrotecnol.* 30: 429–434.
- MILLÁN, B. 2006. Arecaceae endémicas de Perú. *Rev. Peru. Biol.* (special issue) 13: 706s, 707s.
- MONTUFAR, R. AND J.C. PINTAUD. 2006. Variation in species composition, abundance and microhabitat preferences among western Amazonian terra firme palm communities. *Bot. J. Linn. Soc.* 151: 127–140.
- MORICI, C. AND R.V. PEREZ. 2006. *Coccothrinax torrida* (Arecaceae), a new species from southeastern Cuba. *Brittonia* 58: 189–193.
- NARVAEZ, M., I. CORDOVA, R. ORELLANA, N.A. HARRISON AND C. OROPEZA. 2006. First report of a lethal yellowing phytoplasma in *Thrinax radiata* and *Coccothrinax readii* palms in the Yucatan Peninsula of Mexico. *Pl. Pathol.* 55: 292.
- NORMAND, S., J. VORMISTO, J.C. SVENNING, C. GRANDEZ AND H. BALSLEV. 2006. Geographical and environmental controls of palm beta diversity in paleo-riverine terrace forests in Amazonian Peru. *Plant Ecol.* 186: 161–176.
- NORUP, M.V., J. DRANSFIELD, M.W. CHASE, A.S. BARFOD, E.S. FERNANDO AND W.J. BAKER. 2006. Homoplasious character combinations and generic delimitation: a case study from the Indo-Pacific arecoid palms (Arecaceae: Arecaceae). *Amer. J. Bot.* 93: 1065–1080.
- ORTIZ-BARRIENTOS, D. AND L.H. RIESEBERG. 2006. Splitting when together. *Heredity* 97: 2, 3.
- PAN, A.D., B.F. JACOBS, J. DRANSFIELD AND W.J. BAKER. 2006. The fossil history of palms (Arecaceae) in Africa and new records from the Late Oligocene (28–27 Mya) of north-western Ethiopia. *Bot. J. Linn. Soc.* 151: 69–81.
- PASSOS, M.A.B. AND M.S. MENDONÇA. 2006. Epiderme dos segmentos foliares de *Mauritia flexuosa* L. f. (Arecaceae) em tres fases de desenvolvimento. *Acta Amazon.* 36: 431–436.
- PAVÓN, N.P., R. ESCOBAR AND R. ORTIZ-PULIDO. 2006. Harvest of leaves from the palm *Brahea dulcis* in an Otomi community in the state of Hidalgo, Mexico: effect on some population parameters. *Interciencia* 31: 57–61.
- PÉREZ-PORTILLA, E. AND D. GEISSERT-KIENTZ. 2006. Agro-ecological zoning of agroforestry systems: the case coffee (*Coffea arabica* L.) – parlor palm (*Chamaedorea elegans* Mart.). *Interciencia* 31: 556–562.
- PIZO, M.A., C. VON ALLMEN AND L.P.C. MORELLATO. 2006. Seed size variation in the palm *Euterpe edulis* and the effects of seed predators on germination and seedling survival. *Acta Oecol.* 29: 311–315.
- POULSEN, A.D., H. TUOMISTO AND H. BALSLEV. 2006. Edaphic and floristic variation within a 1-ha plot of lowland Amazonian rain forest. *Biotropica* 38: 468–478.
- PULIDO, M.T. AND J. CABALLERO. 2006. The impact of shifting agriculture on the availability of non-timber forest products: the example of *Sabal yapa* in the Maya lowlands of Mexico. *For. Ecol. Managem.* 222: 399–409.
- RAKOTONDRAJONY, G.L., M. SACANDE, C.B. WOOD AND H.W. PRITCHARD. 2006. Seed storage responses in four species of the threatened genus *Ravenia* (Arecaceae). *Seed Sci. Technol.* 34: 513–517.
- RAMOS-ZAPATA, J.A., R. ORELLANA AND E.B. ALLEN. 2006. Mycorrhizal dynamics and dependence of *Desmoncus orthacanthos* Martius (Arecaceae), a native palm of the Yucatan Peninsula, Mexico. *Interciencia* 31: 364–370.
- REIS, R.C.D.C. 2006. Palms (Arecaceae) from the restingas of Rio de Janeiro State, Brazil. *Acta Bot. Brasil.* 20: 501–512.
- RENUKA, C. AND V.B. SREEKUMAR. 2006. *Calamus rivalis* Thw. ex Trim. (Arecaceae): a new record for India. *J. Econ. Taxon. Bot.* 30: 277–279.
- RIOS, R.S. AND L.F. PACHECO. 2006. The effect of dung and dispersal on postdispersal seed predation of *Attalea phalerata* (Arecaceae) by bruchid beetles. *Biotropica* 38: 778–781.
- RODRIGUES, C.D. AND A. SALATINO. 2006. Hydrocarbons from epicuticular waxes of *Allagoptera* (Arecaceae). *Biochem. Syst. Ecol.* 34: 265, 266.
- RONCAL, J. 2006. Habitat differentiation of sympatric *Geonoma macrostachys* (Arecaceae) varieties in Peruvian lowland forests. *J. Trop. Ecol.* 22: 483–486.
- ROZAINAH, M.Z. AND U.R. SINNAH. 2006. Flowering event of *Johannesteijsmannia lanceolata*; an understory palm in the Angsi Forest Reserve, Malaysia. *Malay. J. Sci.* 25: 65–68.
- SANE, D., F. ABERLENC-BERTOSSI, Y.K. GASSAMA-DIA, M. SAGNA, M.F. TROUSLOT, Y. DUVAL AND A. BORGEL. 2006. Histocytological analysis of callogenesis and somatic embryogenesis from cell

- suspensions of date palm (*Phoenix dactylifera*). *Ann. Bot. (Oxford)* 98: 301–308.
- SANNIER, J., S. NADOT, A. FORCHIONI, M. HARLEY AND B. ALBERT. 2006. Variations in the microsporogenesis of monosulcate palm pollen. *Bot. J. Linn. Soc.* 151: 93–102.
- SANTELLI, P., M.E.R. CALBO AND A.G. CALBO. 2006. Post-harvest physiology of palm fruits of *Syagrus oleracea* (Mart.) Becc. (Arecaceae). *Acta Bot. Brasil.* 20: 523–528.
- SAVOLAINEN, V., M.C. ANSTETT, C. LEXER, I. HUTTON, J.J. CLARKSON, M.V. NORUP, M.P. POWELL, D. SPRINGATE, N. SALAMIN AND W.J. BAKER. 2006. Sympatric speciation in palms on an oceanic island. *Nature* 441: 210–213.
- SCHNABEL, G., P.K. BRYSON AND M.A. WILLIAMSON. 2006. First report of *Armillaria tabescens* causing armillaria root rot of Pindo palm in South Carolina. *Plant Disease* 90: 1106.
- SOLA, P., G. EDWARDS-JONES AND J. GAMBIZA. 2006. Impacts of leaf harvesting and sap tapping on the ivory palm (*Hyphaene petersiana*) in South Eastern Zimbabwe. *Forest. Trees Livelihoods* 16: 381–395.
- SOUZA, A.F. AND F.R. MARTINS. 2006. Demography of the clonal palm *Geonoma brevispatha* in a Neotropical swamp forest. *Austral Ecol.* 31: 869–881.
- SREEKUMAR, V.B. AND C. RENUKA. 2006. Assessment of genetic diversity in *Calamus thwaitesii* Becc. (Arecaceae) using RAPD markers. *Biochem. Syst. Ecol.* 34: 397–405.
- SREEKUMAR, V.B., C. RENUKA, T.B. SUMA AND M. BALASUNDARAN. 2006. Taxonomic reconsideration of *Calamus rivalis* Thw. ex Trim. and *C. metzianus* Schlecht (Arecaceae) through morphometric and molecular analyses. *Bot. Stud.* 47: 443–452.
- STAUFFER, F.W. AND J.G. FARINAS. 2006. The identity of *Attalea macrolepis* (Burret) Wess. Boer (Arecaceae). *Candollea* 61: 83–88.
- TÉLLEZ, M.M., M.M. MARTÍN AND T. CABELLO. 2006. *Rhynchophorus ferrugineus* – The red palm weevil, a serious pest of palms. *QEJ. Bricojardinería & Paisajismo* 142: 24–28.
- THOMAS, M.M., N.C. GARWOOD, W.J. BAKER, S.A. HENDERSON, S.J. RUSSELL, D.R. HODEL AND R.M. BATEMAN. 2006. Molecular phylogeny of the palm genus *Chamaedorea*, based on the low-copy nuclear genes PRK and RPB2. *Mol. Phylogenet. Evol.* 38: 398–415.
- TOMLINSON, P.B. 2006a. The uniqueness of palms. *Bot. J. Linn. Soc.* 151: 5–14.
- TOMLINSON, P.B. 2006b. Stem anatomy of climbing palms in relation to long-distance water transport. *Aliso* 22: 265–277.
- TOUSSAINT, E. 2006. March of the red palm weevil to be halted by Wageningen innovation. *Int. Pest Control* 48: 268.
- TRIPP, E.A. AND K.G. DEXTER. 2006. *Sabal minor* (Arecaceae): a new northern record of palms in eastern North America. *Castanea* 71: 172–177.
- VALVERDE, T., M. HERNANDEZ-APOLINAR AND S. MENDOZA-AMARO. 2006. Effect of leaf harvesting on the demography of the tropical palm *Chamaedorea elegans* in South-Eastern Mexico. *J. Sustain. Forest.* 23: 85–105.
- WAKE, T.A. 2006. Prehistoric exploitation of the swamp palm (*Raphia taedigera*: Arecaceae) at Sitio Drago, Isla Colon, Bocas del Toro Province, Panama. *Caribb. J. Sci.* 42: 11–19.
- WATANABE, N.M., J. MIYAMOTO AND E. SUZUKI. 2006. Growth strategy of the stoloniferous rattan *Calamus javensis* in Mt. Halimun, Java. *Ecol. Res.* 21: 238–245.
- WIDYATMOKO, D. AND M.A. BURGMAN. 2006. Influences of edaphic factors on the distribution and abundance of a rare palm (*Cyrtostachys renda*) in a peat swamp forest in eastern Sumatra, Indonesia. *Austral Ecol.* 31: 964–974.
- ZEHDI, S., J.C. PINTAUD, N. BILLOTTE, A.O.M. SALEM, H. SAKKA, A. RHOUMA, M. MARRAKCHI AND M. TRIFI. 2006. Use of SSR markers to provide an identification key for date-palm varieties (*Phoenix dactylifera* L.). *Pl. Genet. Resources Newslett.* 145: 11–18.
- ZONA, S. 2006. Cyanogenesis in hearts of palm (Arecaceae). *Trop. Sci.* 46: 180–184.