

Robin L. Chazdon
Curriculum Vitae
(revised 21 April, 2016)

Address: 75 North Eagleville Road
Department of Ecology and Evolutionary Biology
Storrs, CT 06269-3043 USA
Tel: (860) 486-4057; Fax (860) 486-6364;
e-mail: chazdon@uconn.edu

Education: B.A. 1978 Grinnell College, Iowa Biology
Ph.D. 1984 Cornell University, Ithaca Ecol. & Evol. Biology

Professional Experience:

2015 Senior Research Associate, International Institute of Sustainability,
Rio de Janeiro, Brazil
2014- Executive Director, Association for Tropical Biology and
Conservation
2014- Adjunct Professor, Dept. of Ecology and Evolutionary Biology,
Univ. of Colorado
2000- Full Professor, Dept. of Ecology and Evolutionary Biology, Univ.
of Connecticut
1994-2000 Associate Professor, Dept. of Ecology and Evolutionary Biology,
Univ. of Connecticut
1988-1994 Assistant Professor, Dept. of Ecology and Evolutionary Biology,
Univ. of Connecticut
1986-1988 NSF Research Fellow in Environmental Biology, Univ. California,
Berkeley
1985-1986 Postdoctoral Research Associate, Carnegie Institution of
Washington, Dept. of Plant Biology, Stanford, CA (with C.B. Field)
1984-1985 Postdoctoral Research Botanist, Univ. California, Davis
(with R. W. Pearcy)
2014-2017 Visiting Professor, University of São Paulo ESALQ, Piracicaba,
Brazil
2010 (Feb-Apr) Visiting Professor, University of Copenhagen, Denmark
2009 (Oct-Nov) Visiting Professor, National Autonomous University of Mexico,
Morelia, Michoacan, Mexico
2002 (Jan-June) Visiting Professor, James Cook University, Cairns, Queensland,
Australia
1994 (Apr-June) Visiting Professor, CIRES, University of Colorado, Boulder

Research and Teaching

Research Interests: Ecology and regeneration of tropical and temperate forests,
conservation and restoration of tropical forests, tropical second-growth forests,

biodiversity and conservation in agricultural landscapes, socio-ecological systems.

Current Research Program: Regeneration and restoration of tropical forests, life history and functional traits of tropical tree species, landscape effects on forest regeneration; ecosystem services in restored and regenerating forests

Teaching Program: Undergraduate: Methods of Ecology; Graduate: Functional Ecology of Plants, Current Topics in Biodiversity, Ecosystem Services Seminar

Awards and Honors

Finalist, Prince Bernhard Chair, Utrecht University, 2014

Woman of Innovation Award in Research Innovation and Leadership, Connecticut Technology Council, 2014

Elected member, Connecticut Academy of Science and Engineering, 2012

Honors Faculty of the Year, 2005

Provost's Award for Excellence in Research, 2004

President's Medal, British Ecological Society, 2003

Fellowships and Grants

NSF, DEB 2016, LTREB Supplement; 2016

Science without Borders Fellowship (Brazil); 2015-2017

Costa Rica Debt for Nature Fund; 2016-2018; Forests and citizen science: A pilot program for ecosystem services and landscape connectivity in regenerating forests on small private farms (with the Organization for Tropical Studies)

National Geographic Society; 2015-2016; Seedling regeneration and tree-frugivore interaction networks during tropical forest regeneration

NSF, DEB 2014; LTREB Supplement

NSF, CNH, 2013-2018; RCN: Tropical Reforestation Network: Building a socio-ecological understanding of reforestation in the tropics (Principal Investigator)

NSF, DEB 2012-2017; Collaborative Research/LTREB Renewal: Successional pathways and rates of change in tropical forests of Brazil, Costa Rica and Mexico (Principal Investigator)

NSF, CNH, 2011-2015; Collaborative Research: The emergence of effective governance arrangements for tropical forest ecosystems (Co-investigator)

NSF, Population and Community Ecology, 2011-2014; Collaborative Research: Modeling successional vegetation dynamics in wet tropical forests at multiple scales: Integrating neighborhood effects, functional traits, and phylogeny.

NSF, DEB 2011-2012; Dissertation Research: Functional trait diversity and community assembly of trees and seedlings during tropical forest succession

NSF, OISE Workshop Grant, 2009-2010; Neotropical secondary forest regeneration: Integrating ecological processes across multiple scales

Large Grant, UConn Research Foundation, 2009; Dynamics and reassembly of woody seedling and sapling communities in tropical secondary forests

NASA, 2009-2013; Detecting changes of forest biomass from fusion of radar and lidar: Developing DESDynl measurement requirements (subgrant from JPL)

Blue Moon Fund, 2008-2012; Valuing the carbon and biodiversity of secondary and mature tropical forests
NSF, LTREB, 2007-2011; Collaborative Research/LTREB Successional pathways and rates of change in tropical forests of Brazil, Costa Rica, and Mexico
NSF, Ecological Studies, 2004-2007; Causes and consequences of temporal patterns in tree colonization during succession
Fulbright Senior Scholar Award, January -July, 2002; spent 6 months in Northern Queensland, Australia (James Cook University, Cairns campus)
NSF, Travel Support for an International Conference on Tropical Ecosystems, 2001 (co-P.I)
Andrew W. Mellon Foundation, 1996-1999 (1 grant); 1999-2002 (2 grants)
NSF, Doctoral Dissertation Improvement Grants (3); 1997-99, 2000-2001, 2005-2006)
USDA, Plant Responses to the Environment, 1993-1995; Carbohydrate economy in relation to ecological patterns of tree regeneration
NSF, Ecosystems, 1992-1996; Environmental heterogeneity and woody species diversity in low-elevation tropical secondary forests
University of Connecticut Research Foundation Grant, 1988-2004 (5 grants)
NSF Postdoctoral Fellowship in Environmental Biology, 1986-1988; Plant size: Ecological and morphological consequences.
Organization for Tropical Studies, Noyes Predoctoral Fellowship, 1983-1984
Smithsonian Tropical Research Institute, Short-term Fellowship, 1982
NSF Graduate Fellowship, 1979-1982

Professional Societies:

Association for Tropical Biology and Conservation
Botanical Society of America
Ecological Society of America
British Ecological Society
The International Palm Society
International Society of Tropical Foresters

Manuscript and Grant Reviews (past 5 years):

Journals: Agroforestry Systems; Biological Conservation; BioScience; Biotropica; Boletín Soc. Bot. México; Canadian Journal of Botany; Conservation Biology; Conservation Letters; Diversity and Distributions; Ecological Applications; Ecology; Ecology Letters; Ecosystems, Agriculture and Environment; Environmental Management; Forest Ecology & Management; Ecosphere; Ecological Applications; Frontiers in Ecology and Environment; Forests, Forestry, Global Change Biology; Global Environmental Change, International Forestry Review; Int. J. Plant Science; Journal of Applied Ecology; Journal of Ecology; Journal of Tropical Ecology; Journal of Vegetation Science; Journal Torrey Botanical Society; Landscape Ecology; Nature, Nature Climate Change,

Oecologia; Perspectives in Plant Ecology, Evolution and Systematics;
Philosophical Transactions of the Royal Society Series B.; Restoration Ecology;
Science; Solutions; US Forest Service, World Development

Ad hoc reviewer of proposals for the National Science Foundation, USDA,
Smithsonian, National Geographic, and several private foundations

Foreign Languages:

Spanish (fluent in reading, writing, and speaking), Portuguese, French

Editorial Positions

Co-Editor, Special Issue of *Biotropica*, "The Role of Natural Regeneration in
Large-scale Forest and Landscape Restoration: Challenge and Opportunity"
(with Maria Uriarte); 2015-2016

Editorial Board, *Restoration Ecology* (2015-)

Editorial Board, *Ecological Restoration* (2015-)

Editorial Board, *Biotropica* (2006-2014)

Editor-in-Chief, *Biotropica* (2005-2007)

Managing Editor, *Biotropica* (2003-2004)

Editorial Board, *Physiological Ecology* series, Academic Press, 1999-2001

Editorial Board, *Oecologia* 1998-2003

Associate Editor, *American Journal of Botany*, 1995-2003

Editorial Review Board, *Tree Physiology*, 1987-1988, 1993-1999; 2000-2003

Professional Activities

External Advisory Committee, INECOL (Instituto de Ecología), Xalapa,
Veracruz, Mexico, 2016–

International Advisory Committee, FOREFRONT Program (Nature's benefits in
agro-forest frontiers: linking actor strategies, functional biodiversity and
ecosystem services), 2015–2020

Invited Participant, Meeting on Forest Landscape Restoration, The Prince's
Charities International Sustainability Unit, British Academy, London, UK,
22 March 2016

Co-organizer of "Social Dimensions of Reforestation Pathways in the Tropics"
Pursuit (with Arun Agrawal), SESYNC (National Socioenvironmental
Synthesis Center), Annapolis, MD 2016–2018

Keynote Speaker, High-level Science-Policy Plenary, Global Landscapes Forum,
Paris, France; 6 December 2015

Speaker, Discussion Forum on Scaling up restoration, bringing down poverty – an
assessment of opportunities and risks, from the Amazon to Africa's
Mayombe Forest, Global Landscapes Forum, Paris, France; 5 December
2015

Organizer, Second PARTNERS Workshop, Storrs, CT, 21-25 October, 2015

- Scientific Panel and Keynote Speaker, IUFRO Research Group Conference on Small-scale Forestry Small-scale and Community Forestry and the Changing Nature of Forest Landscapes, University of the Sunshine Coast, Australia, 11-15 October 2015
- Invited Symposium talk; Networking for the Sustainable Future of the Tropics; Japanese Society of Tropical Ecology, Kyoto, Japan, June 2015
- Keynote Speaker: Annual Conference of the Society for Tropical Ecology, Zurich, Switzerland; April 2015
- Scientific Committee for *Forests and Livelihoods: Assessment, Research, and Engagement* (FLARE), IFRI (International Forestry Resources and Institutions), 2015-
- Forest Restoration Panel, Forests, Climate Change and Development Meeting of The Prince's Charities International Sustainability Unit, British Academy, London, UK, 26 January 2015
- Co-organizer with Miguel Calmon, Lars Laestadius, and Bernardo Strassburg, Workshop on the Role of Natural Regeneration in Large-Scale Forest Restoration: Challenge and Opportunity, Rio Botanical Garden, Rio de Janeiro, Brazil 19-21 November 2014
- Invited Faculty, Workshop on Disturbance, Fragmentation and Restoration of Ecosystems in the Context of Climate Change, University of Antananarivo, Forestry Department, Madagascar 13-22 October 2014
- Co-organizer with Calin May Tobin (UCS) of Symposium on Conservation, Evaluation, and Valuation of Secondary Forests, Association for Tropical Biology and Conservation Annual Meeting, Cairns, AU July 2014
- Organizer, Inaugural PARTNERS Workshop, Storrs, CT 21-25 May 2014
- Invited Symposium talk in Symposium on Secondary Forests and Agro-diverse Systems: Dynamics of Regrowth in the Neotropics; Global Land Project Open Meeting; Berlin, Germany; March 19, 2014
- NSF Population and Community Ecology Panel, November 6-8, 2013
- Keynote Address: Annual Symposium on Climate Change in Tropical Developing Regions, The Center for Tropical Ecology and Conservation, Antioch University New England, Keene, NH, November 9 2013
- Keynote Speaker: Wallace Conference on Climate-Smart Landscapes, Sept. 30-Oct. 4, CATIE, Turrialba, Costa Rica
- Program Review Committee, 5th World Conference on Ecological Restoration October 6-11, 2013
- Invited talk in Symposium on Natural Forest Succession in the Tropics: Lessons and Implications for Tropical Forest Restoration and Conservation"; International Congress of Ecology; London, UK; Aug 22, 2013
- Program Review Committee, New Frontiers in Tropical Biology: The Next 50 Years (A Joint Meeting of ATBC and OTS), June 2013
- Scientific Advisory Committee, National Socio-environmental Synthesis Center; 2011-2013

- Advisory Panel for CATIE-Idaho NSF-IGERT, “Evaluating resilience of ecological and social systems in changing landscapes: a doctoral research and education program in Idaho and Costa Rica,” 2012-2014
- Keynote Address: 18th Annual Conference, Yale Chapter of the International Society of Tropical Foresters, January 2012
- Invited participant, National Academies Keck *Futures Initiative* Conference on Ecosystem Services, Irvine, California, November 2011
- Plenary lecture, Student Conference on Conservation Science; American Museum of Natural History, October 2011
- Symposium co-organizer (with Ilyas Siddique and Carla Caterall), “Ecosystem services in successional and restored tropical forest,” Society for Ecological Restoration International Conference, Mérida, Mexico, August 2011
- Symposium participant, “Disturbance and resilience in tropical forests: linking recovery dynamics knowledge and management.” Association for Tropical Biology and Conservation meeting in Arusha, Tanzania, June 2011
- Invited participant; Satellite meeting on Biological Diversity in a Changing World; October, 2010; The Kavli Royal Society International Centre, Chicheley Hall, Buckinghamshire UK
- Co-organizer (with Maria Uriarte) of Symposium “Local and landscape drivers of tropical secondary forest regeneration and implications for ecosystem services” Association for Tropical Biology and Conservation meeting in Bali, Indonesia July 2010
- Sabbatical visitor, Center for Macroecology, Evolution, and Climate, University of Copenhagen, Denmark Feb-April, 2010
- Symposium participant, Plant Functional Diversity in Human Modified Landscapes; INTECOL 2009 meeting in Brisbane, Australia; August 2009
- Plenary lecture, British Ecological Society, Tropical Ecology Group, Early Career Researcher Meeting, Manchester, UK; March 2009
- Participant and Speaker, Tropical Extinction Symposium, Smithsonian Institution, Washington, D.C. January 2009
- Co-organizer, NSF/UNAM International Workshop on Secondary Forest Regeneration in the Neotropics; Morelia, Mexico; October 2009
- Participant, Debating the Tropical Extinction Crisis Workshop, Smithsonian Tropical Research Institute, Panama; August 2008
- Participant, Columbia University-Rutgers University MaGrann 2008 Conference on Land-use Transitions in the Tropics; March 2008
- Symposium Organizer; “Managing Tropical Agricultural Landscapes to Enhance Biodiversity;” Association for Tropical Biology and Conservation; July 2008, Morelia, Michoacan, México
- Participant, Workshop on The Social Life of Forests: New Frameworks for Studying Change; University of Chicago, May 2008
- Participant, Workshop on Tropical Forests in Transition: La Selva as a Case Study; May 2007, La Selva, Costa Rica.

Participant, Applied Ecology Strategic Thinking Workshop; Center for Tropical Forest Studies; May 2007, Panama City, Panama.

Keynote Address: Congreso Mexicano de Botánica, Zacatecas, México, Oct 2007

Ecological Society of America Annual Meeting; Aug 2007, Chazdon, R. L. and D. Boucher, Organized Oral Session “Agricultural landscapes: Critical for Biodiversity Conservation and Ecosystem Restoration”

Scientific Review Committee, Biological Dynamics of Forest Fragments Project, Manaus, Brazil, 2007

NSF Ecology Panel, 2007

Symposium on Seasonally Dry Tropical Forests, Dec. 2006, Stanford University.

Member, IUCN Species Survival Commission, Palm Specialist Group (2005-)

Co-organizer, NCEAS Working Group, Biodiversity and Conservation Value of Agricultural Landscapes of Mesoamerica (2004-2006)

Member, La Selva Advisory Committee (2005-)

Member, Founding Board, Costa Rica-USA Foundation (2004-2014)

Member, External Advisory Committee, CREST-CATEC (Center for Applied Tropical Ecology and Conservation, University of Puerto Rico, Río Piedras (2003-2008)

Member, Scientific Advisory Board, National Center for Ecological Research and Synthesis, 2000-2003

Coordinating Committee, Multi-Site, Multi-Investigator, Multi-Disciplinary (3M) Initiative for Training Plant Ecology Graduate Students, 2001-2003

Chair, Ad Hoc Task Force on Membership, Ecological Society of America, 1999-2001

Member at Large, Ecological Society of America Governing Board, 1998-2000

OTS Research Fellowship Advisory Committee, 1999-2001

Nominating committee, Organization for Tropical Studies, 1991, 1999

NSF dissertation improvement grant panel, 1998

Past-President, Association for Tropical Biology, 1999

President, Association for Tropical Biology, 1998

Member, Board of Directors, OTS, 1989-1999

Member at Large, Executive Committee, Organization for Tropical Studies, 1993-97

Member, USDA Plant Responses to Environment Panel, 1992

Council Member, Association for Tropical Biology, 1990-1991

University Service

Dean's Excellence in Research Award Committee, 2011, 2013

McNair Achievement Program Advisory Board, 2013

Provost Search Committee, Fall 2012

University Senate, Scholastic Standards Committee, 2012-2014

UConn Forest Committee, 2012-

CLAS Grade Appeal, Panel Member, 2012

Faculty Focus Group, W Taskforce, 2010

Udall Award Committee, 2010-2012

Future of Environmental Sciences Committee, 2009
Environmental Literacy Committee, 2006-2009, 2013-
Environmental Studies Degree Committee, 2008-2013
Faculty Advisor, Env. Biology Concentration, Env. Sci. Major 2007-2013
EEB Department Head Search Committee, 2006
Dept. Head's Advisory Committee, 2002-2009
EEB Courses and Curriculum Committee, 2002
Faculty Advisor, Environmental Studies Minor, 2002-2014
Environmental Studies Minor Committee, 1999-2001
Experiential Learning Advisory Board, 2000-2001
Graduate Admissions and Awards Committee, EEB, 2000-2005
Planning Committee, Teale Lecture Series on Nature and the Environment, 1999-
Biology Liason, exchange program with University of Puerto Rico, 1999-2000
Puerto Rican and Latino studies committee, 1999-2001
Travel technology committee, 1999-2000
Off-campus advisor for Ecology and Evolutionary Biology, 1995-
EEB Department promotion and tenure committee: 1997, 1998, 2000, 2004, 2005,
2006, 2008 (head), 2009, 2011 (head)
Board Member, Center for Biodiversity and Conservation, 1999-
Member, Life Sciences Review Panel, 1998-99
University mentoring program for women in science, 1997-1998
Chair, Plant/Ecosystem Ecology Search Committee, 1996-97
Chair, Life Sciences Review Panel, 1992
Caribbean and Latin American studies committee, 1990-2010

Teaching and Mentoring

Current Ph.D. advisees: 1 (UConn): 1 (Univ. of Nebraska); 1 (Columbia Univ.); 2
(USP/ESALQ)
Ph.D Students trained: Adrienne Nicotra, Juan Manuel Dupuy, Silvia Iriarte,
Rebecca Montgomery, Catherine Cardelus, U. Uzay Sezen, Juan Pablo
Arroyo, Susan Letcher, Vanessa Boukili, Amanda Wendt
BS/MS students trained: Lindsay Bowerman, Walter Barozi, Zbigniew
Grabowski, Alexander Defrancesco
Masters students trained: Manette Sandor
Post-doctoral associates: Manuel Guariguata, Robert Capers, Natalia Norden,
Juan Pablo Arroyo, Danaë Rozendaal
Faculty mentor: Tracey Rittenhouse, Alice Boyle
Organizer and instructor, La Selva Module, 3M Graduate Field Course in
Tropical Biology, September 2001
Mentor, Research Experiences for Undergraduate Program, La Selva Biological
Station, June-August 2003 and June-August 2005
Undergraduate REU or Honors students: Brett Butler (1992), Randy Kabakoff
(1992), Mary Beth Palomaki (2003), Benjamin Plourde (2008), Frank
Cervo (2012), Thomas Dannehy (2014).

Publications

Sole-authored Books

Chazdon, R. L. 2014. *Second growth: The promise of tropical forest regeneration in an age of deforestation*. University of Chicago Press, Chicago, IL. 449 pages.

Edited Books

Chazdon, R. L. and T. C. Whitmore (Eds.) 2002. *Foundations of tropical biology: Key papers and commentaries*. University of Chicago Press.

Mulkey, S., **R. Chazdon**, and A. P. Smith (Eds.). 1996. *Tropical forest plant ecophysiology*. Chapman and Hall.

Book Chapters (Peer Reviewed)

Chazdon, R. L. 2016. Forest succession and human agency in an uncertain future. In: W. J. Kress and J. K. Stine, Eds. *Living in the Anthropocene: Humanity in the age of humans*. Smithsonian Institution Press, Washington, D. C. (in press)

Chazdon, R. L. and J. M. Rey Beneyas. 2015. Ecological restoration and ecosystem services. Chapter 40 in S. Allison and S. Murphy, Eds. *Routledge Handbook of Ecological and Environmental Restoration* (in press)

Chazdon, R. L., B. Vilchez Alvarado, S. Letcher, A. Wendt, and U. U. Sezen. 2014. Effects of human activities on successional pathways: Case studies from lowland wet forests of Northeastern Costa Rica. Pp. 129-139 in Hecht, S., K. Morrison, and C. Padoch, Eds. *The Social Life of Forests*, University of Chicago Press, Chicago, IL.

Chazdon, R. L. and J. P. Arroyo. 2013. Tropical forests as complex adaptive systems. Pp. 35-59 in Messier, C., K. J. Puettmann, and K. D. Coates, Eds. *Managing forests as complex adaptive systems: Building resilience to the challenge of global change*. Routledge, NY.

Chazdon, R. L. 2013. Regenerating tropical forest ecosystems. Pp. 277-286 in: Levin, S., Editor. *Encyclopedia of Biodiversity*, 2nd Edition, Volume 7. Academic Press, Waltham, MA.

Chazdon, R. L., C. A. Harvey, M. Martínez-Ramos, P. Balvanera, K. E. Stoner, J. E. Schondube, L. D. Avila-Cabadilla, and M. Flores-Hidalgo. 2011. Seasonal dry forest biodiversity and conservation value in agricultural landscapes of Mesoamerica. Pages 195-219 in R. Dirzo, H. A. Mooney, G. Ceballos, and H. Young, editors. *Ecology and conservation of Neotropical dry forests*. Island Press, Washington, D. C.

Jost, L., A. Chao, and **R. L. Chazdon**. 2010. Assessing community similarity and beta diversity. Pp. 66-84 In: Magurran, A. and B. McGill. *Biological diversity: frontiers in measurement and assessment*. Oxford University Press, NY

Arroyo-Mora, J. P., M. Kalacska, and **R. Chazdon**. 2009. Spectral unmixing of forest recovery in selectively logged units in a tropical lowland forest, Costa Rica. 2009. *Anais XIV Simpósio Brasileiro de Sensoriamento Remoto*, Natal, Brasil, 25-30 abril 2009, INPE, p. 2539-2546

Arroyo, J. P., M. Kalacska, **R. L. Chazdon**, D. Civco, G. Obando, and A. A. Sanchum. 2008. Assessing recovery following selective logging of lowland tropical forests

- based on Hyperspectral imagery. Pp 193-212 In: Kalacska M., and Sanchez-Azofeifa G.A. (Eds) Hyperspectral remote sensing of tropical and sub-tropical forests. Taylor and Francis Group - CRC Press, Boca Raton, FL.
- Chazdon, R. L.** 2008. Chance and determinism in tropical forest succession. In: Carson, W. and S. Schnitzer, Eds. Tropical forest community ecology. Pp. 384-408. Blackwell Publishing.
- Chazdon, R. L.** 2002. Introduction. Pages 1-4 In: **Chazdon, R. L.** and T. C. Whitmore (Eds.) Foundations of tropical forest biology: Classic papers with commentaries. University of Chicago Press.
- Chazdon, R. L.** and the Earl of Cranbrook. 2002. Tropical naturalists of the 16th-19th centuries. Pages 5-14 In: **Chazdon, R. L.** and T. C. Whitmore (Eds.) Foundations of tropical forest biology: Classic papers with commentaries. University of Chicago Press.
- Chazdon, R. L.** and J. S. Denslow. 2002. Floristic composition and species richness. Pages 513-522 In: **Chazdon, R. L.** and T. C. Whitmore (Eds.) Foundations of tropical forest biology: Classic papers with commentaries. University of Chicago Press.
- Denslow, J. S. and **R. L. Chazdon**. 2002. Ecosystem ecology in the tropics. Pages 639-645 In: **Chazdon, R. L.** and T. C. Whitmore (Eds.) Foundations of tropical forest biology: Classic papers with commentaries. University of Chicago Press.
- Chazdon, R. L.** and R. A. Montgomery (2001) Carbon acquisition by tropical forest plants. Pages 225-250 In: M. Guariguata and G. Kattan (Eds.). Ecología de bosque lluvioso Neotropical. IICA, Costa Rica (in Spanish)
- Chazdon, R. L.** and F. G. Coe. 2001. Etnobotánica cuantitativa en bosques secundarios de Costa Rica. Pages 285-290 In: Primack, R., R. Rozzi, P. Feinsinger, R. Dirzo, and F. Massardo, Eds. Conservacion biológica. Fondo de Cultura Económica, México City, México.
- Chazdon, R. L.**, R. K. Colwell, J. S. Denslow and M. Guariguata. 1998. Statistical estimation of species richness of woody regeneration in primary and secondary rainforests of NE Costa Rica. . Pp 285-309 *In*: Dallmeier, F., and J. Comisky, eds. Forest biodiversity in North, Central, and South America and the Caribbean: Research and monitoring. Parthenon Press, Paris.
- Chazdon, R. L.**, R. W. Pearcy, D. W. Lee and N. Fetcher. 1996. Photosynthetic responses to contrasting light environments. pp. 5-55 *in*: Mulkey, S., Chazdon, R. and Smith, A. P. (eds.) Tropical forest plant ecophysiology, Chapman and Hall.
- Fetcher, N., S. F. Oberbauer, and **R. L. Chazdon**. 1994. Physiological ecology of plants at La Selva. *In*: La Selva: Ecology and natural history of a Neotropical rainforest (L. McDade, K.S. Bawa, G. Hartshorn, H. Hespeneheide, eds.). University of Chicago Press, pp. 128-141.
- Pearcy, R. W., **R. L. Chazdon**, L. Gross, and K. A. Mott. 1994. Photosynthetic utilization of sunflecks, a temporally patchy resource on a time scale of seconds to minutes. *In*: Caldwell, M. M. and Pearcy, R. W., (eds.) Exploitation of environmental

heterogeneity by plants: Ecophysiological processes above and below ground. Academic Press, Inc. pp. 175-208.

Chazdon, R. L. and Fetcher, N. 1984. Light environments of tropical forests. *In*: Physiological ecology of plants of the wet tropics (E. Medina, H. A. Mooney, and C. Vazquez Yanes, eds.). pp. 27-36, Junk, The Hague.

Peer-Reviewed Journal Publications

Chazdon, R. L. E. N. Broadbent, D. M. A. Rozendaal, F. Bongers, A. M. A. Zambrano, T. M. Aide, P. Balvanera, J. M. Becknell, V. Boukili, P. H. S. Brancalion, et al. 2016. Carbon sequestration potential of second-growth forest regeneration in the Latin American tropics. *Sci. Adv.* 2, e1501639.

Baynes, J., J. Herbohn, **R. L. Chazdon**, H. Nguyen, J. Firm, N. Gregorio, D. Lamb. 2016. Effects of fragmentation and landscape variation on tree diversity in post-logging regrowth forests of the Southern Philippines. *Biodiversity and Conservation* (in press).

Chazdon, R. L., P. H. S. Brancalion, L. Laestadius, A. Bennett-Curry, K. Buckingham, C. Kumar, J. Moll-Rocek, I. C. G. Vieira and S. J. Wilson. 2016. When is a forest a forest? Forest concepts and definitions in the era of forest and landscape restoration. *Ambio* (on-line early). doi:10. 1007/ s13280-016-0772-y

Poorter, L. F. Bongers, T. M. Aide, A. M. Almeyda Zambrano, P. Balvanera, J. Becknell, V. Boukili, P. H. S. Brancalion, E. N. Broadbent, **R. L. Chazdon**, D. Craven et al. 2016. Biomass resilience of Neotropical secondary forests. *Nature* 530: 211-214.

Chazdon, R. L., P. H. S. Brancalion, D. Lamb, L. Laestadius, M. Calmon, and C. Kumar. 2015. A policy-driven knowledge agenda for global forest and landscape restoration. *Conservation Letters* (on-line early) DOI: 10.1111/conl.12220

Menge, D. N. L., and **R. L. Chazdon**. 2015. Higher survival drives the success of nitrogen-fixing trees through succession in Costa Rican rainforests. *New Phytologist* 209: 965-977.

Fagan, M. R. S. DeFries, S. E. Sesnie, J. P. Arroyo, and **R.L. Chazdon**. 2015. Targeted reforestation could reverse declines in connectivity for understory birds in a tropical habitat corridor. *Ecological Applications* (on-line early) DOI: 10.1890/14-2188

Uriarte, M., J. Lasky, V. Boukili, **R. Chazdon**. 2015. A trait-mediated neighborhood approach to quantify climate impacts on successional dynamics of tropical rain forests. *Functional Ecology* (on-line early) DOI: 10.1111/1365-2435.12576

Arroyo-Rodriguez, V., F. P. L. Melo, M. Martínez-Ramos, F. Bongers, **R. L. Chazdon**, Jorge A. Meave, N. Norden, B. A. Santos, I. R. Leal and M. Tabarelli. 2015. Multiple successional pathways in human-modified tropical landscapes: New insights from forest succession, forest fragmentation and landscape ecology research. *Biological Reviews* (on-line early) DOI: 10.1111/brv.12231

Magnuszewski, P., K. Ostasiewicz, **R. Chazdon**, C. Salk, M. Pajak, J. Sendzimir, K. Andersson. 2015. Resilience and alternative stable states of tropical forest landscapes under shifting cultivation regimes. *PLoS ONE* 10(9): e0137497; doi:10.1371/journal.pone.0137497.

Taylor, P., G. Asner, K. Dahlin, C. Anderson, D. Knapp, R. Martin, J. Mascaro, **R. Chazdon**, R.

- Cole, and W. Wanek. 2015. Landscape-scale controls on aboveground forest carbon stocks on the Osa Peninsula, Costa Rica. *PLoS One* 10:e0126748.
- Norden, N. H. A. Angarita, F. Bongers, M. Martínez-Ramos, I. Granzow-de la Cerda, M. van Breugel, E. Lebrija-Trejos, J. A. Meave, J. Vandermeer, G. B. W, B, Finegan, R. Mesquita, **R. L. Chazdon**. 2015. Successional dynamics in Neotropical forests are as uncertain as they are predictable. *Proceedings of the National Academy of Science* 112: 8013-8018.
- Letcher, S. G., J. R. Lasky, **R. L. Chazdon**, N. Norden, S. J. Wright, J. A. Meave, E. A. Pérez-García, R. Muñoz, et al. 2015. Environmental gradients and the evolution of successional habitat specialization: a test case with 14 Neotropical forest sites. *Journal of Ecology* 103: 1276-1290.
- Bongers, F., **R. Chazdon**, L. Poorter, and M. Peña-Claros. 2015. The potential of secondary forests. *Science (New York, NY)* 348:642.
- Slik, J. F., V. Arroyo-Rodríguez, S.-I. Aiba, P. Alvarez-Loayza, L. F. Alves, P. Ashton, P. Balvanera, M. L. Bastian, P. J. Bellingham, and E. van den Berg. et al. 2015. An estimate of the number of tropical tree species. *Proceedings of the National Academy of Sciences* 112:7472-7477.
- Fagan, M. E., R. S. DeFries, S. E. Sesnie, J. P. Arroyo-Mora, C. Soto, A. Singh, P. A. Townsend, and **R. L. Chazdon**. 2015. Mapping species composition of forests and tree plantations in Northeastern Costa Rica with an integration of hyperspectral and multitemporal Landsat imagery. *Remote Sensing* 7:5660-5696.
- Messier, C., K. Puettmann, **R. L. Chazdon**, K. P. Andersson, V. A. Angers, L. Brotons, E. Filotas, R. Tittler, L. Parrott, and S. A. Levin. 2015. From management to stewardship: Viewing forests as complex adaptive systems in an uncertain world. *Conservation Letters* (online); doi: 10.1111/conl.12156
- Plourde, B. T., V. Boukili, and **R. L. Chazdon**. 2015. Radial changes in wood specific gravity of tropical trees: inter- and intra-specific variation during secondary succession. *Functional Ecology* 29: 111-120.
- Chao, A., T. Hsieh, **R. L. Chazdon**, R. K. Colwell, and N. J. Gotelli. 2015. Unveiling the species-rank abundance distribution by generalizing the Good-Turing sample coverage theory. *Ecology* 96:1189-1201.
- Rozendaal, D. and **R. L. Chazdon**. 2015. Demographic drivers of tree biomass change during secondary succession in northeastern Costa Rica. *Ecological Applications* 25: 506-516.
- Valle, D., B. Baiser, C. W. Woodall, **R. Chazdon**. 2014. Decomposing biodiversity data using the Latent Dirichlet Allocation model, a probabilistic multivariate statistical method. *Ecology Letters* 17: 1591-1601.
- Klos, P. Z., A. Chain-Guadarrama, T. E. Link, B. Finegan, L. A. Vierling, **R. Chazdon**. 2014. Throughfall heterogeneity in tropical forested landscapes as a focal mechanism for deep percolation. *Journal of Hydrology* 519: 2180-2188.
- Arroyo-Mora, J. P., S. Svob, M. Kalacska, **R. Chazdon**. 2014. Historical patterns of natural forest management in Costa Rica: the good, the bad and the ugly. *Forests* 5: 17770-1797; doi:10.3390/f5071777
- Lasky, J. R., M. Uriarte, V. K. Boukili, D. L. Erickson, W. J. Kress, and **R. L. Chazdon**.

2014. The relationship between tree biodiversity and biomass dynamics changes with tropical forest succession. *Ecology Letters* 17: 1158-1167.
- Sullivan, B. W., W. K. Smith, A. R. Townsend, M. K. Nasto, S. C. Reed, **R. Chazdon**, and C. C. Cleveland. 2014. A novel approach to quantify biological nitrogen (N) fixation implies substantial human alteration of the tropical N cycle. *Proceedings of the National Academy of Science* 111: 8101-8106.
- Lasky, J. R., M. Uriarte, V. K. Boukili, and **R. L. Chazdon**. 2014. Multiple effects of functional trait variation on tree community dynamics in tropical successional forests. *Proceedings of the National Academy of Science* 111: 5616-5621.
- Sandor, M. E., and **R. L. Chazdon**. 2014. Remnant trees affect species composition but not structure of tropical second-growth forest. *PLoS One* 9:e83284.
- Filotas, E., Parrott, L., Burton, P. J., **Chazdon**, R. L., Coates, K. D., Coll, L., Haeussler, S., Martin, K., Nocentini, S., Puettmann, K. J., Putz, F. E., Simard, S. W., Messier, C. 2014. Viewing forests through the lens of complex systems science. *Ecosphere* 5:art1.
- Arroyo-Rodriguez, V., M. Ros, F. Escobar, F. P. L. Melo, B. A. Santos, M. Tabarelli, and **R. Chazdon**. 2013. Plant β -diversity in fragmented rain forests: testing floristic homogenization and differentiation hypotheses. *Journal of Ecology* 101: 1449-1458.
- Fagan, M. E., R. S. DeFries, S. E. Sesnie, J. P. Arroyo, J.P., W. Walker, W., C. Soto, **R. L. Chazdon**, and A. Sanchun. 2013. Land cover dynamics following a deforestation ban in northern Costa Rica. *Environmental Research Letters* 8 034017
[doi:10.1088/1748-9326/8/3/034017](https://doi.org/10.1088/1748-9326/8/3/034017)
- Chazdon**, R. L. 2013. Strategies for landscape-scale restoration in the tropics. *Journal of Sustainable Forestry* 32:649–658,
- Salk, C. F., **R. L. Chazdon**, and K. P. Andersson. 2013. Detecting landscape-level changes in above-ground tree biomass and biodiversity: Methodological constraints and challenges of plot-based approaches. *Canadian Journal of Forest Research* 43:799-808.
- Maily, D. S. Turbis, and **R. L. Chazdon**. 2013. SOLARCALC 7.0: An enhanced version of a program for the analysis of hemispherical canopy photographs. *Computers in Electronics in Agriculture* 97: 15-20.
- Dornelas, M., A. Magurran, S. T. Buckland, A. Chao, **R. L. Chazdon**, R. K. Colwell, T. Curtis, K. J. Gaston, N. J. Gotelli, M. Kosnik, B. McGill, J. L. McCune, H. Morlon, P. J. Mumby, L. Øvreås, A. Studeny, and M. Vellend. 2013. Quantifying temporal change in biodiversity: challenges and opportunities. *Proc. Royal Soc. London Series B*, doi: 10.1098/rspb.2012.1931 [on-line early].
- Chazdon**, **R. L.** 2013. Regeneração de florestas tropicais. *Bol. Mus. Para Emílio Goeldi. Cienc. Nat. Belém*, 7: 195-218.
- Morales-Salazar, M. S., B. Vilchez-Alvarado, **R. L. Chazdon**, E. Ortiz-Malavasi, and M. Guevara-Bonilla. 2013. Estructura, composición y diversidad vegetal en bosques tropicales del Corredor Biológico Osa, Costa Rica. *Revista Forestal Mesoamericana Kurú* 10:1-13.
- Navarro, M., R. Mora, **R. Chazdon**, E. Ortiz, and B. Vilchez. 2013. Successional variation in carbon content and wood specific gravity of four tropical tree species. *Bosque* 34: 33-43
- Aguilar-Arias, H., E. Ortiz-Malavasi, B. Vilchez-Alvarado, and **R. L. Chazdon**. 2012. Biomasa sobre el suelo y carbono orgánico en el suelo en cuatro estadios de sucesión de bosques en la Península de Osa, Costa Rica. *Revista Forestal Mesoamericana Kurú* 9:22-31.

- Morales-Salazar, M., B. Vilchez-Alvarado, **R. L. Chazdon**, M. Ortega-Gutiérrez, E. Ortiz-Malavassi, and M. Guevara-Bonilla. 2012. Diversidad y estructura horizontal en los bosques tropicales del Corredor Biológico de Osa, Costa Rica. *Revista Forestal Mesoamericana Kurú* 9:19-28.
- Letcher, S. G. and **R. L. Chazdon**. 2012. Life history traits of lianas during tropical forest succession. *Biotropica* 44: 720-727.
- Norden, N., S. G. Letcher, V. Boukili, N. G. Swenson, and **R. L. Chazdon**. 2012. Demographic drivers of successional changes in phylogenetic structure across life history stages in tropical plant communities. *Ecology* 93 (Supplement): S70-S82.
- van den Berg, E., **R. Chazdon**, and B. S. Corrêa. 2012. Tree growth and death in a tropical gallery forest in Brazil: understanding the relationships among size, growth, and survivorship for understory and canopy dominant species. *Plant Ecology* 213:1081-1092.
- Grabowski, Z. J. and **R. L. Chazdon**. 2012. Beyond carbon: Redefining forests and people in the global ecosystem services market. *S.A.P.I.E.N.S. Surveys and Perspectives Integrating Environment and Society* 5: URL : <http://sapiens.revues.org/1246>.
- Colwell, R. K., A. Chao, N. J. Gotelli, S.-Y. Lin, C. X. Mao, **R. L. Chazdon**, J. T. Longino. 2012. Models and estimators linking individual-based and sample-based rarefaction, extrapolation, and comparison of assemblages. *Journal of Plant Ecology* 5:3-21.
- Letcher S. G., **R. L. Chazdon**, A. C. S. Andrade, F. Bongers, M. van Breugel, B. Finegan, S. G. Laurance, R. C. G. Mesquita, M. Martínez-Ramos, G. B. Williamson. Phylogenetic community structure during succession: evidence from three Neotropical forest sites. 2012. *Perspectives in Plant Ecology, Evolution and Systematics* 14: 79-87.
- Saatchi, S., M. Marlier, **R. Chazdon**, D. Clark, and A. Russell. 2011. Impact of spatial variability of tropical forest structure on radar estimation of aboveground biomass. *Remote Sensing of Environment* 115:2836-2849.
- Chazdon, R. L.**, A. Chao, R. K. Colwell, S.-Y. Lin, N. Norden, S. G. Letcher, D. B. Clark, B. Finegan, and J. P. Arroyo. 2011. A novel statistical method for classifying habitat generalists and specialists *Ecology* 92: 1332-1343.
- Antonarakis, A. S., S. S. Saatchi, **R. L. Chazdon**, and P. R. Moorcroft. 2011. Using Lidar and Radar measurements to constrain predictions of forest ecosystem structure and function. *Ecological Applications* 21:1120-1137.
- Norden, N., R. C. G. Mesquita, T. V. Bentos, **R. L. Chazdon**, and G. B. Williamson. 2011. Contrasting community compensatory trends in alternative successional pathways in Central America. *Oikos* 120:143-151.
- Uriarte, M., N. Swenson, **R. Chazdon**, L. Comita, W. John Kress, D. Erickson, J. Forero Montaña, J. Zimmerman, and J. Thompson. 2010. Trait similarity, shared ancestry and the structure of neighbourhood interactions in a subtropical wet forest: implications for community assembly. *Ecology Letters* 13:1503-1514.
- DeClerck, F. A. J., **R. L. Chazdon**, K. D. Holl, J. C. Milder, B. Finegan, A. Martinez-Salinas, P. Imbach, L. Canet, and R. Zayra. 2010. Biodiversity conservation in human-modified landscapes of Mesoamerica: Past, present, and future. Special Issue: *Biodiversity Conservation* 143:2301-2313.

- Dubayah, R. O., S. L. Sheldon, D. B. Clark, M. A. Hofton, J. B. Blair, G. C. Hurtt, and **R. L. Chazdon**. 2010. Estimation of tropical forest height and biomass dynamics using lidar remote sensing at La Selva, Costa Rica. *Journal of Geophysical Research* 115:1-17.
- Chazdon, R. L.**, B. Finegan, R. S. Capers, B. Salgado-Negret, F. Casanoves, V. Boukili, and N. Norden. 2010. Composition and dynamics of functional groups of trees during tropical forest succession. *Biotropica* 42: 31-40.
- Chazdon, R. L.**, C. A. Peres, D. Dent, D. Sheil, A. E. Lugo, D. Lamb, N. E. Stork and S. Miller. 2009. The potential for species conservation in tropical secondary forests. *Conservation Biology* 23: 1406-1417.
- Stork, N. E., J. A. Coddington, R. K. Colwell, **R. L. Chazdon**, C. W. Dick, C. A. Peres, S. Sloan, and K. Willis. 2009. Vulnerability and resilience of tropical forest species to land-use change: an historical and multi-taxon synthesis. *Conservation Biology* 23:1438-1447.
- Melo, F., B. Rodriguez-Herrera, **R. L. Chazdon**, G. Ceballos and R. Medellin. 2009. Small tent-roosting bats promote dispersal of large-seeded plants in a Neotropical forest. *Biotropica* 41: 737-743.
- Vilchez Alvarado, B., **R. Chazdon**, and W. Alvarado. 2009. Reproductive phenology of canopy trees in secondary and mature forests of the Huetar Norte region of Costa Rica and their influence on vegetation regeneration. *Kurú: Revista Forestal (Costa Rica)* 5 (15). [on-line only]
http://www.tec.cr/sitios/Docencia/forestal/Revista_Kuru/pdf/articulo%202.pdf
- Letcher, S. G. and **R. L. Chazdon**. 2009. Lianas and self-supporting plants during tropical forest succession. *Forest Ecology and Management* 257: 2150-2156.
- Letcher, S. G. and **R. L. Chazdon**. 2009. Rapid recovery of woody biomass, species richness, and species composition in a forest chronosequence in northeastern Costa Rica. *Biotropica* 41: 608-617.
- Gardner, T., J. Barlow, **R. L. Chazdon**, R. Ewers, C. A. Harvey and N. S. Sodhi. 2009. Prospects for tropical forest biodiversity in a human-modified world. *Ecology Letters* 12: 561-582.
- Norden, N., **R. L. Chazdon**, A. Chao, Y.-H. Jiang and B. Vilchez Alvarado. 2009. Resilience of tropical rain forests: Tree community reassembly in secondary forests. *Ecology Letters* 12: 385-394.
- Sezen, U. U., **R. L. Chazdon** and K. E. Holsinger. 2009. Proximity is not a proxy for parentage in an animal-dispersed Neotropical canopy palm. *Proc. Royal Soc. London B* 276: 2037-2044.
- Chazdon, R. L.**, C. Harvey, O. Komar, D. Griffith, B. Ferguson, M. Martínez-Ramos, H. Morales, R. Nigh, L.Soto-Pinto, M. van Breugel S. Philpott. 2009. Beyond reserves: A research agenda for conserving biodiversity in tropical human-modified landscapes. *Biotropica* 41: 142-153.
- Vilchez Alvarado, B., **R. L. Chazdon**, and V. Milla Quesada. 2009. Dinámica de la regeneración en cuatro bosques secundarios tropicales de la región Huetar Norte, Costa Rica: Su valor para la conservación o uso commercial. *Recursos Naturales y Ambiente* no. 55: 118-128.

- Wood, T. E., D. Lawrence, D. A. Clark, and **R. L. Chazdon**. 2009. The effect of large-scale litter manipulation on rain forest nutrient cycling and productivity. *Ecology* 90: 109-121.
- Chao, A., L. Jost, S. C. Chiang, Y.-H. Jian, and **R. L. Chazdon**. 2008. A two-stage probabilistic approach to multiple-community similarity indices. *Biometrics* 64: 1178-1186.
- Chazdon, R. L.** 2008. Beyond deforestation: Restoring forests and ecosystem services on degraded lands. *Science* 320: 1458-1460.
- Dupuy, J. M. and **R. L. Chazdon**. 2008. Interacting effects of canopy gap, understory vegetation and leaf litter on tree seedling recruitment and composition in tropical secondary forests. *Forest Ecology and Management* 255: 3716-3725.
- Harvey, C. A., O. Komar, **R. Chazdon**, B. G. Ferguson, B. Finegan, D. M. Griffith, M. Martinez-Ramos, H. Morales, R. Nigh, L. Soto-Pinto, M. van Breugel, and M. Wishnie. 2008. Integrating agricultural landscapes with biodiversity conservation in the Mesoamerican Hotspot. *Conservation Biology* 22: 8-15.
- Sodhi, N. S., L. P. Koh, K. S.-H. Peh, H. T. W. Tan, **R. L. Chazdon**, R. T. Corlett, T. M. Lee, R. K. Colwell, B. W. Brook, C. H. Sekercioglu, and C. J. A. Bradshaw. 2007. Correlates of extinction proneness in tropical angiosperms. *Diversity and Distributions* 14: 1-10.
- Vilchez, B., **R. L. Chazdon**, and W. Alvarado. 2007. Fenología reproductiva de las especies del dosel superior en seis sitios de la region Huetar Norte de Costa Rica. 2007. *Kuru: Revista Forestal Costa Rica*, in press.
- Sezen, U. U., **R. L. Chazdon**, and K. E. Holsinger. 2007. Multigenerational genetic analyses of tropical secondary regeneration in a canopy palm. *Ecology* 88: 3065-3075.
- Chazdon, R. L.**, S. G. Letcher, M. van Breugel, M. Martínez-Ramos, F. Bongers, and B. Finegan. 2007. Rates of change in tree communities of secondary tropical forests following major disturbances. *Phil. Trans. R. Soc. B.* 362: 273-289.
- Dupuy, J. M. and **R. L. Chazdon**. 2006. Effects of vegetation cover on seedling and sapling dynamics in secondary tropical wet forests in Costa Rica. *Journal of Tropical Ecology* 22: 65-76.
- Chao, A. **R. L. Chazdon**, R. K. Colwell, and T.-J. Shen. 2006. Abundance-based similarity indices and their estimation when there are unseen species in samples. *Biometrics* 62: 361-371.
- Palomaki, M. B., **Chazdon, R. L.**, J. P. Arroyo, and S. G. Letcher. 2006. Juvenile tree growth in relation to light availability in second-growth tropical rain forests. *Journal of Tropical Ecology* 22: 223-226.
- Lusk, C. H., **Chazdon, R. L.**, and G. Hofmann. 2006. A bounded null model explains juvenile tree community structure along light availability gradients in an old-growth temperate rain forest. *Oikos* 112: 131-137.
- Ruiz, J., M. C. Fandiño, and **R. L. Chazdon**. 2005. Vegetation structure, composition, and species richness across a 56-year chronosequence of dry tropical forest on Providencia Island, Colombia. *Biotropica* 37: 520-530.

- Capers, R. S. **R. L. Chazdon**, Redondo Brenes, Al, and Vilchez Alvarado, B. 2005. Successional dynamics of woody seedling communities in wet tropical secondary forests. *Journal of Ecology* 93: 1071-1084.
- Iriarte, S. B. B. and **R. L. Chazdon**. 2005. Light-dependent seedling survival and growth of four tree species in Costa Rican second-growth rain forests. *Journal of Tropical Ecology* 21: 383-395.
- Chazdon, R. L.**, A. Redondo Brenes, and B. Vilchez Alvarado. 2005. Effects of climate and stand age on annual tree dynamics in tropical second-growth rain forests. *Ecology*, 86: 1808-1815.
- Cardelus, C. L. and **R. L. Chazdon**. 2005. Inner-crown microenvironments of two emergent tree species in a lowland wet forest. *Biotropica* 37: 238-244.
- Chao, A., **R. L. Chazdon**, R. K. Colwell, and T.-J. Shen. 2005. A new statistical approach for assessing similarity of species composition with incidence and abundance data. *Ecology Letters* 8: 148-159.
- Sezen, U. U., **R. L. Chazdon** & K. E. Holsinger. 2005. Genetic consequences of tropical second-growth forest regeneration. *Science* 307: 891.
- Vilchez Alvarado, **R. L. Chazdon**, and A. Redondo. 2004. Fenología reproductiva de cinco especies forestales del Bosque Secundario Tropical. *Kurú: Revista Forestal Costa Rica* 1(2): 1-10. [this is an on-line, peer-reviewed journal]
- Redondo Brenes, **R. L. Chazdon**, and B. Vilchez Alvarado. 2004. Effects of selective logging on dynamics and composition of woody seedlings in a tropical secondary forest. *Kurú: Revista Forestal Costa Rica* 1(3): 1-11.
- Capers, R. S. and **R. L. Chazdon** (2004) Rapid assessment of understory light availability in a wet tropical forest. *Agricultural and Forest Meteorology* 123: 177-185.
- Chazdon, R. L.** (2003). Tropical forest recovery: legacies of human intervention and natural disturbances. *Perspectives in Plant Ecology, Evolution and Systematics* 6: 51-71.
- Chazdon, R. L.**, S. Careaga, C. Webb, and O. Vargas. (2003) Community and phylogenetic structure of reproductive traits of woody species in wet tropical forests. *Ecological Monographs* 73: 331-348.
- Nicotra, A. B., **R. L. Chazdon**, and R. A. Montgomery (2003). Sexes show contrasting patterns of leaf and crown carbon gain in a dioecious rainforest shrub. *American Journal of Botany* 90: 347-355
- Redondo B., A., B. Vilchez A., **R. L. Chazdon**. 2001. Estudio de la dinámica y composición de cuatro bosques secundarios en la región Huetar Norte, Sarapiquí—Costa Rica. *Revista Forestal Centroamericana* No. 36 (Oct-Dec) 21-26.
- Montgomery, R. A. and **R. L. Chazdon**. 2002 Light gradient partitioning by tropical tree seedlings in the absence of canopy gaps. *Oecologia* 131: 165-174
- Drake, J. B., R. O. Dubayah, D. B. Clark, R. G. Knox, J. B. Blair, M. A. Hofton, **R. L. Chazdon**, J. F. Weishampel, and S. Prince. 2002. Estimation of Tropical Forest Structural Characteristics Using Large-footprint Lidar. *Remote Sensing of Environment*. 79: 305-319.

- Montgomery, R. A. and **R. L. Chazdon**. 2001. Forest structure, canopy architecture, and light transmittance in tropical wet forests. *Ecology* 82 : 2707-2718.
- Chazdon, R. L.**, R. K. Colwell, and J. S. Denslow. 1999. Tropical tree richness and resource-based niches. *Science* 285: 1459a [on-line journal only].
- Chazdon, R. L.** and F. G. Coe. 1999. Ethnobotany of woody species in second-growth, old-growth, and selectively logged forests of northeastern Costa Rica. *Conservation Biology* 13: 1312-1322.
- Nicotra, A. B., **R. L. Chazdon**, and S. Iriarte. 1999. Spatial heterogeneity of light and woody seedling regeneration in tropical wet forests. *Ecology* 80: 1908-1926.
- Canham, C. D., R. K. Kobe, Latty, E. F. **Chazdon, R. L.** 1999. Interspecific and intraspecific variation in tree seedling survival: effects of allocation to roots versus carbohydrate reserves. *Oecologia* 121: 1-11.
- Dupuy, J. M. and **R. L. Chazdon**. 1998. Long-term effects of forest regrowth and selective logging on the seed bank of tropical forests in NE Costa Rica. *Biotropica* 30: 223-237.
- Butler, B. J. and **R. L. Chazdon**. 1998. Species richness, spatial variation, and abundance of the soil seed bank of a secondary tropical rain forest. *Biotropica* 30: 214-222.
- Chazdon, R. L.** 1998. Tropical forests—log 'em or leave 'em? *Science* 281: 1295-1296.
- Guariguata, M. R., **R. L. Chazdon**, J. S. Denslow, J. M. Dupuy and L. Anderson. 1997. Structure and floristics of secondary and old-growth forest stands in lowland Costa Rica. *Plant Ecology* 132: 107-120.
- Nicotra, A. B., **R. L. Chazdon** and C. D. Schlichting. 1997. Patterns of genotypic variation and phenotypic plasticity of light response in two tropical *Piper* (Piperaceae) species. *American Journal of Botany* 84: 1542-1553.
- Kabakoff, R. P. and **R. L. Chazdon**. 1996. Effects of canopy species dominance on understory light availability in tropical secondary rain forest. *Journal of Tropical Ecology* 12: 779-788.
- Chazdon, R. L.** 1996. Spatial heterogeneity in tropical forest structure: canopy palms as landscape mosaics. *Trends in Ecology and Evolution* 11: 8-9
- Braker, E. and **R. L. Chazdon**. 1993. Ecological, behavioural and nutritional factors influencing use of palms as host plants by a neotropical forest grasshopper. *Journal of Tropical Ecology* 9: 183-195.
- Chazdon, R. L.** and S. Kaufmann. 1993. Plasticity of leaf anatomy of two rain forest shrubs in relation to photosynthetic light acclimation. *Functional Ecology* 7: 385-394.
- Chazdon, R. L.** 1992. Effects of leaf and ramet removal on growth and reproduction of *Geonoma congesta*, a clonal understory palm. *Journal of Ecology* 79: 1137-1146.
- Chazdon, R. L.** 1992. Patterns of growth and reproduction in *Geonoma congesta*, a clustered understory palm. *Biotropica* 24: 43-51.
- Chazdon, R. L.** 1992. Photosynthetic plasticity of two rain forest shrubs across natural gap transects. *Oecologia* 92: 586-595.
- Chazdon, R. L.** 1991. Plant size and form on the understory palm genus *Geonoma*: are species variations on a theme? *American Journal of Botany* 78: 680-694.
- Chazdon, R. L.** and R. W. Pearcy. 1991. The importance of sunflecks for forest understory plants. *Bioscience* 41: 760-766.

- Chazdon, R. L.** 1988. Sunflecks and their importance to forest understory plants. *Advances in Ecological Research* 18: 1-63.
- Chazdon, R. L.** 1988. Conservation-conscious collecting: concerns and guidelines. *Principes* 32: 13-17.
- Chazdon, R. L., K. Williams, and C. B. Field.** 1988. Interactions between crown structure and light environment in five rainforest *Piper* species. *Amer. J. Bot.* 75: 1459-1471.
- Chazdon, R. L.** 1987. The palms of Braulio Carrillo National Park, Costa Rica. *Brenesia* 28: 107-116.
- Chazdon, R. L. and C. B. Field.** 1987. Determinants of photosynthetic capacity in six *Piper* species. *Oecologia* 73: 222-230.
- Chazdon, R. L. and C. B. Field.** 1987. Photographic estimation of photosynthetically active radiation: evaluation of a computerized technique. *Oecologia* 73: 525-532.
- Chazdon, R. L.** 1986. Physiological and morphological basis of shade tolerance in rainforest understory palms. *Principes* 30: 92-99.
- Chazdon, R. L. and R. W. Pearcy.** 1986. Photosynthetic responses to light variation in rainforest species. I. Induction under constant and fluctuating light conditions. *Oecologia* 69: 517-523.
- Chazdon, R. L. and R. W. Pearcy.** 1986. Photosynthetic responses to light variation in rainforest species. II. Carbon gain and photosynthetic efficiency during lightflecks. *Oecologia* 69: 524-531.
- Chazdon, R. L.** 1986. The costs of leaf support in understory palms: economy versus safety. *American Naturalist* 127: 9-30.
- Chazdon, R. L.** 1986. Light variation and carbon gain in rainforest understory palms. *J. Ecol.* 74: 995-1012.
- Chazdon, R. L.** 1985. Palm research at La Selva, Costa Rica. *Principes* 29: 72-73.
- Moore, H. E., Jr. and **R. L. Chazdon.** 1985. Key to the palms of Finca La Selva. *Principes* 29: 82-84.
- Chazdon, R. L. and R. J. Marquis.** 1985. Key to seedling palms of Finca La Selva. *Principes* 29: 79-82.
- Chazdon, R. L.** 1985. The palm flora of Finca La Selva. *Principes* 29: 74-78.
- Chazdon, R. L.** 1985. Leaf display, canopy structure, and light interception of two understory palm species. *American Journal of Botany* 72: 1493-1502.
- Chazdon, R. L. and Fetcher, N.** 1984. Photosynthetic light environments in a lowland tropical rainforest in Costa Rica. *Journal of Ecology* 72: 552-564.
- Chazdon, R. L.** 1979. Ecological aspects of the distribution of C₄ grasses in selected habitats of Costa Rica. *Biotropica* 10: 265-269.

Conference Proceedings and Solicited Articles (not Peer-Reviewed)

- Chazdon, R. L., D. Burslem, and I. Turner.** 2002. Tim Whitmore—Recalling a Giant (Obituary for T. C. Whitmore). *Tropinet* 13 (3): page 2. [September 2002]
- Chazdon, R. L.** 2001. Forests in transition: Regeneration processes in second-growth and mature lowland rain forests of northeastern Costa Rica. *Proceedings of the*

- Society for Tropical Biology International conference on Tropical Ecosystems: Structure, Diversity and Human Welfare, July 15-18, 2001, Bangalore, India.
- Chazdon, R. L.** 2001. Diversity, stability, and evolution of professional ecologists—A report on the ESA membership 2000. *Bulletin of the Ecological Society of America* In press. [the full report is published on ESA web site (<http://esa.sdsc.edu/report/>)]
- Chazdon, R. L.** 1998. Phoenix rising? Fragility and resilience of tropical forests. *Tropinet* vol. 9, no. 3 [based on ATB Presidential Address, Baltimore MD, August 1998]
- Chazdon, R. L.** 1998. The work of Paul Richards lives on. *Tropinet* vol 9, no. 1
- Chazdon, R. L.** and F. G. Coe. 1998. Abundance and diversity of useful woody species in second-growth, old-growth, and selectively-logged forests of NE Costa Rica. In: M. R. Guariguata and B. Finegan (Eds). *Tropical Secondary Forests: Science, People, and Policy*. CATIE/CIFOR. Turrialba, Costa Rica.
- Chazdon, R. L.** 1994. Researching the rain forest. *New Moon* 1: 18-20.
- Chazdon, R. L.** 1994. The primary importance of secondary forests in the tropics. *Tropinet* vol. 5, no. 2 [Editorial].
- Colwell, R. K. and **R. L. Chazdon**. 1989. The Organization for Tropical Studies. *In*: *World Book Encyclopedia Science Year 1990*, 173-185.
- Pearcy, R. W., **R. L. Chazdon**, and M.U.F. Kirschbaum. 1987. Photosynthetic utilization of lightflecks by tropical forest plants. *In*: *Progress in Photosynthesis Research*, Vol. IV (Ed. by J. Biggens), pp. 257-260. Martinus Nijhoff. Dordrecht
- Chazdon, R. L.** 1987. Aspectos importantes para el estudio de los regimenes de luz en bosques tropicales (Important aspects of the study of light environments in tropical forests), *Revista de Biología Tropical (Suplemento 1)* 35: 191-196.

Book Reviews

- Chazdon, R. L.** 2015. Restoring Tropical Forests: A Practical Guide by Stephen Elliott, David Blakesley, and Kate Hardwick. *Ecological Restoration* 33: 118-119.
- Chazdon, R. L.** 2012. Monitoring forest biodiversity: Improving conservation through ecologically-responsible management, Review of *Monitoring Forest Biodiversity* by Toby Gardner. *International Forestry Review* 14: 394-396 .
- Chazdon, R. L.** 2011. Restoring forests, livelihoods, and resilience in tropical landscapes. Review of *Regreening the bare hills: Tropical forest restoration in the Asia-Pacific region* by David Lamb. *Biotropica* 43:764-764.
- Chazdon, R. L.** 2003. Review of *Evolution and Ecology of Palms* by Andrew Henderson. *Principes* 47: 149-150.
- Chazdon, R. L.** 1998. A tropical rainforest feast. *Trends in Ecology and Evolution* 13: 421-422 [review of 3 books].
- Chazdon, R. L.** 1998. Review of “The Tropical Rain Forest, 2nd Edition” by P. W. Richards. *Ecoscience* 5: 132-137
- Chazdon, R. L.** 1996. Review of “The Palms of the Amazon” by Andrew Henderson. *The Quarterly Review of Biology* 71: 125-126.
- Chazdon, R. L.** 1996. Review of “Field Guide to the Palms of the Americas” by A. Henderson, G. Galeano, and R. Bernal. *The Quarterly Review of Biology* 71: 409.

- Jones, C. S. and **R. L. Chazdon**. 1992. An ecological perspective on climbing plants. *Ecology* 73: 2337-2338. Book review of Putz, F. E. and H.A. Mooney (eds.). *The Biology of Vines*. Cambridge University Press, New York, 526 p.
- Chazdon, R. L.** 1991. Bridging the gap between rain forest regeneration and management. *Ecology* 72: 1520-1521. Book review of Gómez-Pompa, A., T. C. Whitmore, and M. Hadley (eds.). 1991. *Rain Forest Regeneration and Management*. Man and the Biosphere Series, Vol. 6. The Unesco Press, Paris, France and The Parthenon Publishing Group, Ltd., Park Ridge, New Jersey.
- Chazdon, R. L.** 1990. Methods and instruments for plant ecophysiology. *Ecology* 71: 828-829. Book review of Percy, R. W., R. J. Ehleringer, H. A. Mooney, and P. W. Rundel (eds.). 1989. *Plant Physiological Ecology: Field Methods and Instrumentation*. Chapman and Hall, New York, 457 p.
- Chazdon, R. L.** 1988. Book review of *Genera Palmarum: A Classification of Palms Based on the Work of Harold E. Moore, Jr.*, Natalie W. Uhl and John Dransfield, authors. *Taxon* 37: 937.