

## **FOREST PROTECTION REFERENCES**

Achard, F., Beuchle, R., Mayaux, P., Stibig, H.-J., Bodart, C., Brink, A., ... Simonetti, D. (2014). Determination of tropical deforestation rates and related carbon losses from 1990 to 2010. *Global Change Biology*, 20(8), 2540–2554. <https://doi.org/10.1111/gcb.12605>

Aichi Biodiversity Targets. (n.d.). Retrieved December 30, 2018, from <https://www.cbd.int/sp/targets/>

Baccini, A., Goetz, S. J., Walker, W. S., Laporte, N. T., Sun, M., Sulla-Menashe, D., ... Houghton, R. A. (2012a). Estimated carbon dioxide emissions from tropical deforestation improved by carbon-density maps. *Nature Climate Change*, 2(3), 182–185. <https://doi.org/10.1038/nclimate1354>

Baccini, A., Goetz, S. J., Walker, W. S., Laporte, N. T., Sun, M., Sulla-Menashe, D., ... Houghton, R. A. (2012b). Estimated carbon dioxide emissions from tropical deforestation improved by carbon-density maps. *Nature Climate Change*, 2(3), 182–185. <https://doi.org/10.1038/nclimate1354>

Bhaskar Vira, Christoph Wildburger and Stephanie Mansourian (eds.). (2015). *Forests and Food: Addressing Hunger and Nutrition Across Sustainable Landscapes*. <https://doi.org/10.11647/OBP.0085>

Bonn Challenge: A World of Opportunity | Global Partnership on Forest and Landscape Restoration. (2016, November 13). Retrieved November 12, 2016, from <http://www.forestlandscaperestoration.org/resource/bonn-challenge-world-opportunity>

Brockhaus, M., Korhonen-Kurki, K., Sehring, J., Di Gregorio, M., Assembe-Mvondo, S., Babon, A., ... Zida, M. (2017). REDD+, transformational change and the promise of performance-based payments: a qualitative comparative analysis. *Climate Policy*, 17(6), 708–730. <https://doi.org/10.1080/14693062.2016.1169392>

Carbon Sequestration and Plant Community Dynamics Following Reforestation of Tropical Pasture :: Tropical Native Species Reforestation Information Clearinghouse (TRIC). (2016, November 19). Retrieved November 19, 2016, from <http://reforestation.elti.org/resource/95/>

Chatterjee, N., Nair, P. K. Ramachandran., Chakraborty, S., & Nair, V. D. (2018a). Changes in soil carbon stocks across the Forest-Agroforest-Agriculture/Pasture continuum in various agroecological regions: A meta-analysis. *Agriculture, Ecosystems & Environment*, 266, 55–67. <https://doi.org/10.1016/j.agee.2018.07.014>

Chatterjee, N., Nair, P. K. Ramachandran., Chakraborty, S., & Nair, V. D. (2018b). Changes in soil carbon stocks across the Forest-Agroforest-Agriculture/Pasture continuum in various agroecological regions: A meta-analysis. *Agriculture, Ecosystems & Environment*, 266, 55–67. <https://doi.org/10.1016/j.agee.2018.07.014>

Chhatre, A., & Agrawal, A. (2009). Trade-offs and synergies between carbon storage and livelihood benefits from forest commons. *Proceedings of the National Academy of Sciences*, 106(42), 17667–17670. <https://doi.org/10.1073/pnas.0905308106>

Creating an appropriate tenure foundation for REDD+: The record to date and prospects for the future - ScienceDirect. (n.d.). Retrieved December 10, 2018, from <https://www.sciencedirect.com/science/article/pii/S0305750X18300202>

Curtis, P. G., Slay, C. M., Harris, N. L., Tyukavina, A., & Hansen, M. C. (2018). Classifying drivers of global forest loss. *Science*, 361(6407), 1108–1111. <https://doi.org/10.1126/science.aau3445>

Deforestation driven by urban population growth and agricultural trade in the twenty-first century | Nature Geoscience. (n.d.). Retrieved November 30, 2018, from <https://www.nature.com/articles/ngeo756>

DeFries, R. S., Rudel, T., Uriarte, M., & Hansen, M. (2010). Deforestation driven by urban population growth and agricultural trade in the twenty-first century. *Nature Geoscience*, 3(3), 178–181. <https://doi.org/10.1038/ngeo756>

Design challenges for achieving reduced emissions from deforestation and forest degradation through conservation: Leveraging multiple paradigms at the tropical forest margins - ScienceDirect. (n.d.). Retrieved December 10, 2018, from <https://www.sciencedirect.com/science/article/abs/pii/S0264837712000944>

Dixon, R. K., Solomon, A. M., Brown, S., Houghton, R. A., Trexler, M. C., & Wisniewski, J. (1994). Carbon Pools and Flux of Global Forest Ecosystems. *Science*, 263(5144), 185–190. <https://doi.org/10.1126/science.263.5144.185>

Dooley, K et al. (n.d.-a). *Missing Pathways to 1.5°C: The role of the land sector in ambitious climate action*. (p. 53). Climate Land Ambition and Rights Alliance.

Drivers of deforestation and forest degradation: A synthesis report for REDD+ policymakers. (n.d.). Retrieved November 29, 2018, from <https://www.cifor.org/library/5167>

Ellison, D., Morris, C. E., Locatelli, B., Sheil, D., Cohen, J., Murdiyarto, D., ... Sullivan, C. A. (2017). Trees, forests and water: Cool insights for a hot world. *Global Environmental Change*, 43, 51–61. <https://doi.org/10.1016/j.gloenvcha.2017.01.002>

Engel, S., Pagiola, S., & Wunder, S. (2008). Designing payments for environmental services in theory and practice: An overview of the issues. *Ecological Economics*, 65(4), 663–674. <https://doi.org/10.1016/j.ecolecon.2008.03.011>

FAO (Ed.). (2018). *Forests pathways to sustainable development*. Rome: FAO.

Federici, S., Tubiello, F. N., Salvatore, M., Jacobs, H., & Schmidhuber, J. (2015). New estimates of CO<sub>2</sub> forest emissions and removals: 1990–2015. *Forest Ecology and Management*, 352, 89–98. <https://doi.org/10.1016/j.foreco.2015.04.022>

Feldpausch, T. R., Rondon, M. A., Fernandes, E., Riha, S. J., & Wandelli, E. (2004). *Carbon and nutrient accumulation in secondary forests regenerating on pastures in central Amazonia*. Retrieved from <https://ore.exeter.ac.uk/repository/handle/10871/9525>

Fletcher, R., Dressler, W., Büscher, B., & Anderson, Z. R. (2016). Questioning REDD+ and the future of market-based conservation. *Conservation Biology*, 30(3), 673–675. <https://doi.org/10.1111/cobi.12680>

Gilroy, J. J., Woodcock, P., Edwards, F. A., Wheeler, C., Baptiste, B. L. G., Medina Uribe, C. A., ... Edwards, D. P. (2014). Cheap carbon and biodiversity co-benefits from forest regeneration in a hotspot of endemism. *Nature Climate Change*, 4(6), 503–507. <https://doi.org/10.1038/nclimate2200>

Glossary. (n.d.). Retrieved December 10, 2018, from [http://unfccc.int/resource/cd\\_roms/na1/ghg\\_inventories/english/8\\_glossary/Glossary.htm](http://unfccc.int/resource/cd_roms/na1/ghg_inventories/english/8_glossary/Glossary.htm)

Goal 6: Clean Water and Sanitation. (n.d.). Retrieved December 30, 2018, from The Global Goals website: <https://www.globalgoals.org/6-clean-water-and-sanitation>

Grassi, G., House, J., Dentener, F., Federici, S., den Elzen, M., & Penman, J. (2017). The key role of forests in meeting climate targets requires science for credible mitigation. *Nature Climate Change*, 7(3), 220–226. <https://doi.org/10.1038/nclimate3227>

Griscom, B. W., Adams, J., Ellis, P. W., Houghton, R. A., Lomax, G., Miteva, D. A., ... Fargione, J. (2017a). Natural climate solutions. *Proceedings of the National Academy of Sciences*, 114(44), 11645–11650. <https://doi.org/10.1073/pnas.1710465114>

Griscom, B. W., Adams, J., Ellis, P. W., Houghton, R. A., Lomax, G., Miteva, D. A., ... Fargione, J. (2017b). Natural climate solutions. *Proceedings of the National Academy of Sciences*, 114(44), 11645–11650. <https://doi.org/10.1073/pnas.1710465114>

Guariguata, M. R., & Ostertag, R. (2001). Neotropical secondary forest succession: changes in structural and functional characteristics. *Forest Ecology and Management*, 148(1), 185–206.

- Harris, N. L., Brown, S., Hagen, S. C., Saatchi, S. S., Petrova, S., Salas, W., ... Lotsch, A. (2012). Baseline Map of Carbon Emissions from Deforestation in Tropical Regions. *Science*, 336(6088), 1573–1576. <https://doi.org/10.1126/science.1217962>
- Heino, M., Kummu, M., Makkonen, M., Mulligan, M., Verburg, P. H., Jalava, M., & Räsänen, T. A. (2015). Forest Loss in Protected Areas and Intact Forest Landscapes: A Global Analysis. *PLOS ONE*, 10(10), e0138918. <https://doi.org/10.1371/journal.pone.0138918>
- Houghton, R. A., & Nassikas, A. A. (2017). Global and regional fluxes of carbon from land use and land cover change 1850-2015: Carbon Emissions From Land Use. *Global Biogeochemical Cycles*, 31(3), 456–472. <https://doi.org/10.1002/2016GB005546>
- Houghton, Richard A. (2013). The emissions of carbon from deforestation and degradation in the tropics: past trends and future potential. *Carbon Management*, 4(5), 539–546. <https://doi.org/10.4155/cmt.13.41>
- Houghton, Richard A., & Nassikas, A. A. (2018). Negative emissions from stopping deforestation and forest degradation, globally. *Global Change Biology*, 24(1), 350–359. <https://doi.org/10.1111/gcb.13876>
- Hyvönen, R., VAagren, G. I., Linder, S., Persson, T., Cotrufo, M. F., Ekblad, A., ... others. (2007). The likely impact of elevated [CO<sub>2</sub>], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. *New Phytologist*, 173(3), 463–480.
- Irena F. Creed and Meine van Noordwijk (eds.), (n.d.). *Forest and Water on a Changing Planet: Vulnerability, Adaptation and Governance Opportunities. A Global Assessment Report*. (p. 192). Retrieved from International Union of Forest Research Organizations (IUFRO) website: <https://www.iufro.org/publications/article/2018/07/10/world-series-vol-38-forest-and-water-on-a-changing-planet-vulnerability-adaptation-and-governan/>
- Jacobi, J. (2016). *WOCAT Case Study - Dynamic Agroforestry in Bolivia*.
- Keenan, R. J., Reams, G. A., Achard, F., de Freitas, J. V., Grainger, A., & Lindquist, E. (2015a). Dynamics of global forest area: Results from the FAO Global Forest Resources Assessment 2015. *Forest Ecology and Management*, 352, 9–20. <https://doi.org/10.1016/j.foreco.2015.06.014>
- Keenan, R. J., Reams, G. A., Achard, F., de Freitas, J. V., Grainger, A., & Lindquist, E. (2015b). Dynamics of global forest area: Results from the FAO Global Forest Resources Assessment 2015. *Forest Ecology and Management*, 352, 9–20. <https://doi.org/10.1016/j.foreco.2015.06.014>

Köthke, M., Leischner, B., & Elsasser, P. (2013). Uniform global deforestation patterns — An empirical analysis. *Forest Policy and Economics*, *28*, 23–37. <https://doi.org/10.1016/j.forpol.2013.01.001>

Lamb, D., Erskine, P. D., & Parrotta, J. A. (2005). Restoration of Degraded Tropical Forest Landscapes. *Science*, *310*(5754), 1628–1632. <https://doi.org/10.1126/science.1111773>

Lambin, E. F., & Meyfroidt, P. (2011). Global land use change, economic globalization, and the looming land scarcity. *Proceedings of the National Academy of Sciences*, *108*(9), 3465–3472.

Le Quéré, C., Andrew, R. M., Friedlingstein, P., Sitch, S., Pongratz, J., Manning, A. C., ... Zhu, D. (2017). Global Carbon Budget 2017. *Earth System Science Data Discussions*, 1–79. <https://doi.org/10.5194/essd-2017-123>

Learning from REDD+: a response to Fletcher et al. - Angelsen - 2017 - Conservation Biology - Wiley Online Library. (n.d.). Retrieved December 10, 2018, from <https://onlinelibrary.wiley.com/doi/full/10.1111/cobi.12933>

Lewis, S. L., Lopez-Gonzalez, G., Sonké, B., Affum-Baffoe, K., Baker, T. R., Ojo, L. O., ... Wöll, H. (2009). Increasing carbon storage in intact African tropical forests. *Nature*, *457*(7232), 1003–1006. <https://doi.org/10.1038/nature07771>

Locatelli, B., Catterall, C. P., Imbach, P., Kumar, C., Lasco, R., Marín-Spiotta, E., ... Uriarte, M. (2015). Tropical reforestation and climate change: beyond carbon: Tropical reforestation beyond carbon. *Restoration Ecology*, *23*(4), 337–343. <https://doi.org/10.1111/rec.12209>

Lonsdale, W. M. (1999). Global Patterns of Plant Invasions and the Concept of Invasibility. *Ecology*, *80*(5), 1522–1536. [https://doi.org/10.1890/0012-9658\(1999\)080\[1522:GPOPIA\]2.0.CO;2](https://doi.org/10.1890/0012-9658(1999)080[1522:GPOPIA]2.0.CO;2)

Luyssaert, S., Inglima, I., Jung, M., Richardson, A. D., Reichstein, M., Papale, D., ... Janssens, I. A. (2007). CO<sub>2</sub> balance of boreal, temperate, and tropical forests derived from a global database. *Global Change Biology*, *13*(12), 2509–2537. <https://doi.org/10.1111/j.1365-2486.2007.01439.x>

Luyssaert, Sebastiaan, Schulze, E.-D., Börner, A., Knohl, A., Hessenmöller, D., Law, B. E., ... Grace, J. (2008). Old-growth forests as global carbon sinks. *Nature*, *455*(7210), 213–215. <https://doi.org/10.1038/nature07276>

MacDicken, K. G., Sola, P., Hall, J. E., Sabogal, C., Tadoum, M., & de Wasseige, C. (2015). Global progress toward sustainable forest management. *Forest Ecology and Management*, *352*, 47–56. <https://doi.org/10.1016/j.foreco.2015.02.005>

Mackey, B., DellaSala, D. A., Kormos, C., Lindenmayer, D., Kumpel, N., Zimmerman, B., ... Watson, J. E. M. (2015). Policy Options for the World's Primary Forests in Multilateral Environmental Agreements. *Conservation Letters*, 8(2), 139–147. <https://doi.org/10.1111/conl.12120>

Malhi, Y., Baldocchi, D. D., & Jarvis, P. G. (1999). The carbon balance of tropical, temperate and boreal forests. *ResearchGate*, 22(6), 715-740. <https://doi.org/10.1046/j.1365-3040.1999.00453.x>

Malhi, Yadvinder. (2012). The productivity, metabolism and carbon cycle of tropical forest vegetation. *Journal of Ecology*, 100(1), 65–75. <https://doi.org/10.1111/j.1365-2745.2011.01916.x>

Martin, P. A., Newton, A. C., & Bullock, J. M. (2013). Carbon pools recover more quickly than plant biodiversity in tropical secondary forests. *Proc. R. Soc. B*, 280(1773), 20132236. <https://doi.org/10.1098/rspb.2013.2236>

Martínez, L. J., & Zinck, J. A. (2004). Temporal variation of soil compaction and deterioration of soil quality in pasture areas of Colombian Amazonia. *Soil and Tillage Research*, 75(1), 3–18. <https://doi.org/10.1016/j.still.2002.12.001>

Matthews, R. B., & van Noordwijk, M. (2014). From euphoria to reality on efforts to reduce emissions from deforestation and forest degradation (REDD+). *Mitigation and Adaptation Strategies for Global Change*, 19(6), 615–620. <https://doi.org/10.1007/s11027-014-9577-0>

Matthews, R. B., van Noordwijk, M., Lambin, E., Meyfroidt, P., Gupta, J., Verchot, L., ... Veldkamp, E. (2014). Implementing REDD+ (Reducing Emissions from Deforestation and Degradation): evidence on governance, evaluation and impacts from the REDD-ALERT project. *Mitigation and Adaptation Strategies for Global Change*, 19(6), 907–925. <https://doi.org/10.1007/s11027-014-9578-z>

Miettinen, J., Hooijer, A., Shi, C., Tollenaar, D., Vernimmen, R., Liew, S. C., ... Page, S. E. (2012). Extent of industrial plantations on Southeast Asian peatlands in 2010 with analysis of historical expansion and future projections. *GCB Bioenergy*, 4(6), 908–918. <https://doi.org/10.1111/j.1757-1707.2012.01172.x>

Minang, P. A., & van Noordwijk, M. (2013). Design challenges for achieving reduced emissions from deforestation and forest degradation through conservation: Leveraging multiple paradigms at the tropical forest margins. *Land Use Policy*, 31, 61–70. <https://doi.org/10.1016/j.landusepol.2012.04.025>

Morales-Hidalgo, D., Oswalt, S. N., & Somanathan, E. (2015). Status and trends in global primary forest, protected areas, and areas designated for conservation of biodiversity from the Global Forest Resources Assessment 2015. *Forest Ecology and Management*, 352, 68–77. <https://doi.org/10.1016/j.foreco.2015.06.011>

Morton, D. C., DeFries, R. S., Shimabukuro, Y. E., Anderson, L. O., Arai, E., del Bon Espirito-Santo, F., ... Morissette, J. (2006). Cropland expansion changes deforestation dynamics in the southern Brazilian Amazon. *Proceedings of the National Academy of Sciences*, *103*(39), 14637–14641.

Moutinho, P. (2005). *Tropical deforestation and climate change*. Belém: IPAN, Washington DC-USA: Environmental Defense.

Nepstad, D., Soares-Filho, B. S., Merry, F., Lima, A., Moutinho, P., Carter, J., ... Stella, O. (2009). The End of Deforestation in the Brazilian Amazon. *Science*, *326*(5958), 1350–1351.  
<https://doi.org/10.1126/science.1182108>

NYDF Global Platform – New York Declaration on Forests. (n.d.). Retrieved December 30, 2018, from <https://nydfglobalplatform.org/>

Pan, Y., Birdsey, R. A., Fang, J., Houghton, R., Kauppi, P. E., Kurz, W. A., ... Hayes, D. (2011). A Large and Persistent Carbon Sink in the World's Forests. *Science*, *333*(6045), 988–993.  
<https://doi.org/10.1126/science.1201609>

Ramankutty, N., Gibbs, H. K., Achard, F., Defries, R., Foley, J. A., & Houghton, R. A. (2007). Challenges to estimating carbon emissions from tropical deforestation. *Global Change Biology*, *13*(1), 51–66. <https://doi.org/10.1111/j.1365-2486.2006.01272.x>

REDD+, transformational change and the promise of performance-based payments: a qualitative comparative analysis: *Climate Policy*: Vol 17, No 6. (n.d.). Retrieved December 10, 2018, from <https://www.tandfonline.com/doi/abs/10.1080/14693062.2016.1169392>

*Regreening the Bare Hills - Tropical Forest Restoration in the* | David Lamb | Springer. (2016). Retrieved from <http://www.springer.com/la/book/9789048198696>

Rey Benayas, J., Martins, A., Nicolau, J., & Schulz, J. (2007). Abandonment of agricultural land: an overview of drivers and consequences. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, *2*(057).  
<https://doi.org/10.1079/PAVSNNR20072057>

Running, S. W. (2012). A measurable planetary boundary for the biosphere. *Science*, *337*(6101), 1458–1459.

Salzman, J., Bennett, G., Carroll, N., Goldstein, A., & Jenkins, M. (2018). The global status and trends of Payments for Ecosystem Services. *Nature Sustainability*, *1*(3), 136–144.  
<https://doi.org/10.1038/s41893-018-0033-0>

Science, A. A. for the A. of. (1994). Corrections and Clarifications. *Science*, *265*(5169), 171–171.  
<https://doi.org/10.1126/science.265.5169.171-c>

Seidl, R., Thom, D., Kautz, M., Martin-Benito, D., Peltoniemi, M., Vacchiano, G., ... Reyer, C. P. O. (2017). Forest disturbances under climate change. *Nature Climate Change*, 7(6), 395–402. <https://doi.org/10.1038/nclimate3303>

Silver, W. L., Ostertag, R., & Lugo, A. E. (2000). The Potential for Carbon Sequestration Through Reforestation of Abandoned Tropical Agricultural and Pasture Lands. *Restoration Ecology*, 8(4), 394–407. <https://doi.org/10.1046/j.1526-100x.2000.80054.x>

Sunderlin, W. D., Larson, A. M., Duchelle, A. E., Resosudarmo, I. A. P., Huynh, T. B., Awono, A., & Dokken, T. (2014). How are REDD+ Proponents Addressing Tenure Problems? Evidence from Brazil, Cameroon, Tanzania, Indonesia, and Vietnam. *World Development*, 55, 37–52. <https://doi.org/10.1016/j.worlddev.2013.01.013>

Tyukavina, A., Baccini, A., Hansen, M. C., Potapov, P. V., Stehman, S. V., Houghton, R. A., ... Goetz, S. J. (2015). Aboveground carbon loss in natural and managed tropical forests from 2000 to 2012. *Environmental Research Letters*, 10(7), 074002. <https://doi.org/10.1088/1748-9326/10/7/074002>

van Lierop, P., Lindquist, E., Sathyapala, S., & Franceschini, G. (2015). Global forest area disturbance from fire, insect pests, diseases and severe weather events. *Forest Ecology and Management*, 352, 78–88. <https://doi.org/10.1016/j.foreco.2015.06.010>

Wunder, S. (2007). The Efficiency of Payments for Environmental Services in Tropical Conservation. *Conservation Biology*, 21(1), 48–58. <https://doi.org/10.1111/j.1523-1739.2006.00559.x>

Wunder, S. (n.d.). *Payments for environmental services: some nuts and bolts*. 32.

Zarin, D. J., Harris, N. L., Baccini, A., Aksenov, D., Hansen, M. C., Azevedo-Ramos, C., ... Tyukavina, A. (2016). Can carbon emissions from tropical deforestation drop by 50% in 5 years? *Global Change Biology*, 22(4), 1336–1347. <https://doi.org/10.1111/gcb.13153>