

International Nature Learning Package

Recommended reading list

Session one: Our relationship with nature

Essential study materials

[The Economics of Biodiversity: The Dasgupta Review – Headline Messages](#)

Dasgupta, P. (2021). The Economics of Biodiversity: The Dasgupta Review. (London: HM Treasury). Headline messages, pages 1-6:
https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/957629/Dasgupta_Review_-_Headline_Messages.pdf

[Understanding the value and limits of nature-based solutions to climate change and other global challenges](#)

Seddon, N., Chausson, A., Berry, P., Girardin, C.A.J., Smith, A. & Turner, B. (2020). Understanding the value and limits of nature-based solutions to climate change and other global challenges. *Philosophical Transactions of the Royal Society B*, 375.1794, <https://doi.org/10.1098/rstb.2019.0120>, Abstract and Section 1.

[The Role of the Natural Environment in Adaptation](#)

Kapos, V., Wicander, S., Salvaterra, T., Dawkins, K., Hicks, C. (2019). *The Role of the Natural Environment in Adaptation*. Background Paper for the Global Commission on Adaptation. Rotterdam and Washington, D.C.: Global Commission on Adaptation. <https://gca.org/reports/the-role-of-the-natural-environment-in-adaptation/> Pages 1-7

[Learning from 20 years of Payments for Ecosystem Services in Costa Rica](#)

Porras, I., Barton, D.N, Miranda, M. and Chacón-Cascante, A. (2013). Learning from 20 years of Payments for Ecosystem Services in Costa Rica. International Institute for Environment and Development, London. <https://pubs.iied.org/sites/default/files/pdfs/migrate/16514IIED.pdf>, pages 62-66

Online study materials

Written sources

[Mapping the effectiveness of nature-based solutions for climate change adaptation](#)

Chausson, A, Turner, B, Seddon, D, et al. (2020). Mapping the effectiveness of Nature-based Solutions for climate change adaptation. *Global Change Biology*, 26, pp. 6134– 6155. <https://doi.org/10.1111/gcb.15310>

[Getting the message right on nature-based solutions](#)

Nature-Based Solutions Initiative. (2021). *Getting the message right on nature-based solutions*. News Item. <https://www.naturebasedsolutionsinitiative.org/news/new-paper-getting-the-message-right-on-nature-based-solutions/>

[Biodiversity loss, development crisis?](#)

Roe, D., Seddon, N. & Elliot, J. (2019). Biodiversity loss, development crisis? Briefing. IIED. <https://www.naturebasedsolutionsinitiative.org/wp-content/uploads/2019/04/17705IIED.pdf>

[Global recognition of the importance of nature-based solutions to the impacts of climate change](#)

Seddon, N., Daniels, E., Davis, R., Chausson, A., Harris, R., Hou-Jones, X. et al. (2020). Global recognition of the importance of nature-based solutions to the impacts of climate change. *Global Sustainability*, 3, E15. doi:10.1017/sus.2020.8

Videos

[The Economics of nature: introducing the Dasgupta Review | The Royal Society](#)

The Royal Society (2021). *The economics of Biodiversity: the Dasgupta Review*. <https://www.youtube.com/watch?v=e2QDOeKH0DE> Video featuring the Prince of Wales, Sir David Attenborough, Professor Sir Partha Dasgupta and Sir Venki Ramakrishnan to mark the publication of *The economics of Biodiversity: the Dasgupta Review*.

[David Attenborough: A Life on Our Planet](#)

Attenborough, David. (2020). *A life on our planet*. WWF. Available on Netflix.

[What are nature-based solutions to climate change?](#)

Nature-Based Solutions Initiative. (2018). *What are nature-based solutions to climate change?* 5 minute video: <https://www.youtube.com/watch?v=9Yq2OPJR-a4&t=296s>

Session two: The dynamics of deforestation: drivers, nature, interventions and challenges

Essential study materials

[Deforestation Fronts: Drivers and Responses in a Changing World](#)

Pacheco, P., Mo, K., Dudley, N., Shapiro, A., Aguilar-Amuchastegui, N., Ling, P.Y., Anderson, C. and Marx, A. (2021). *Deforestation fronts: Drivers and responses in a changing world*. WWF, Gland, Switzerland.

https://www.tropicalforestalliance.org/assets/Uploads/deforestation_fronts_drivers_and_responses_in_a_changing_world_full_report_1_compressed.pdf, Pages 46-64

[How to build deforestation-free supply chains: lessons from Indonesia](#)

Tropical Forest Alliance. *How to build deforestation free supply chains: Lessons from Indonesia*. <https://www.weforum.org/agenda/2020/03/how-to-build-deforestation-free-supply-chains-lessons-from-indonesia/>

[Ten golden rules for reforestation to optimize carbon sequestration, biodiversity recovery and livelihood benefits](#)

Di Sacco, A., et al. (2021), Ten golden rules for reforestation to optimize carbon sequestration, biodiversity recovery and livelihood benefits. *Global Change Biology*, 27, pp. 1328-1348. <https://doi.org/10.1111/gcb.15498>, Section 1.

[Prosperous Forests](#)

Food and Land Use Coalition.

(2019). *Prosperous Forests*. London: Systemiq. https://www.foodandlandusecoalition.org/wp-content/uploads/2019/11/FOLU-Prosperous-Forests_v6.pdf Pages 2-5

Optional study materials

[The relationship between forests and freshwater fish consumption in rural Nigeria](#)

Lo M, Narulita S, Ickowitz A. (2019). The relationship between forests and freshwater fish consumption in rural Nigeria. *PLOS ONE* 14(6): e0218038. <https://doi.org/10.1371/journal.pone.0218038>

[Benefit Accounting of Nature-Based Solutions for Watersheds](#)

Brill, Gregg, Tien Shiao, Cora Kammeyer, Sarah Diringer, Kari Vigerstol, Naabia Ofosu-Amaah, Michael Matosich, Carla Müller-Zantop, Wendy Larson and Tim Dekker (2021). *Benefit Accounting of Nature-Based Solutions for Watersheds: Guide United Nations CEO Water Mandate and Pacific Institute*. Oakland, California. <https://pacinst.org/wp-content/uploads/2021/03/Benefit-Accounting-of-Nature-Based-Solutions-for-Watershed-Guide-Pacific-Institute-March-2021.pdf>

[Forest resources are at the heart of the EU's bioeconomy strategy. How can they be used sustainably?](#)

Johnson, F.X. & Bessonova, E. (2021). *Forest resources are at the heart of the EU's bioeconomy strategy. How can they be used sustainably?* Stockholm Environment Institute. Perspective, <https://www.sei.org/perspectives/forests-eu-bioeconomy/>

[Impacts of large-scale forest restoration on socioeconomic status and local livelihoods: what we know and do not know](#)

Adams, C., Rodrigues, S.T., Calmon, M. and Kumar, C. (2016), Impacts of large-scale forest restoration on socioeconomic status and local livelihoods: what we know and do not know. *Biotropica*, 48: 731-744. <https://doi.org/10.1111/btp.12385>
(Not open access)

[Pitfalls of Tree Planting Show Why We Need People-Centered Natural Climate Solutions](#)

Fleischman, F. et al. (2020). Pitfalls of Tree Planting Show Why We Need People-Centered Natural Climate Solutions. *BioScience*, 70,11, pp. 947– 950, <https://doi.org/10.1093/biosci/biaa094>

[About Cities4Forests](#)

World Resources Institute 'Cities for Forests' Initiative: <https://www.wri.org/our-work/project/cities4forests/about-cities4forests>

[The economic costs of planting, preserving, and managing the world's forests to mitigate climate change](#)

Austin, K.G., Baker, J.S., Sohngen, B.L. et al. (2020). The economic costs of planting, preserving, and managing the world's forests to mitigate climate change. *Nat Communication*, 11, 5946, <https://doi.org/10.1038/s41467-020-19578-z>

[Importance of Indigenous Peoples' lands for the conservation of Intact Forest Landscapes](#)

Fa, J. E. et al., (2020). Importance of Indigenous Peoples' lands for the conservation of Intact Forest Landscapes. *Front Ecol Environ*, 18(3): 135– 140, DOI:[1002/fee.2148](https://doi.org/10.1002/fee.2148)

Session three: Agriculture, ecosystems and sustainable land use

Essential study materials

[Agricultural diversification promotes multiple ecosystem services without compromising yield](#)

Tamburini et al paper “Agricultural diversification promotes multiple ecosystem services without compromising yield” 2020, Science Advances, V 6, N 45, DOI: 10.1126/sciadv.aba1715

[The use of Ecosystem-based Adaptation practices by smallholder farmers in Central America](#)

Celia A. Harvey, M. Ruth Martínez-Rodríguez, José Mario Cárdenas', Jacques Avelino, Bruno Rapidel, Raffaele Vignola, Camila I. Donatti, Sergio Vilchez-Mendoza. (2017). The use of Ecosystem-based Adaptation practices by smallholder farmers in Central America. Agriculture, Ecosystems & Environment, 246, Pages 279-290, <https://doi.org/10.1016/j.agee.2017.04.018>

[Common ground: restoring land health for sustainable agriculture](#)

Larbodière, L., Davies, J., Schmidt, R., Magero, C., Vidal, Arroyo Schnell, A., Bucher, P., Maginnis, S., Cox, N., Hasinger, O., Abhilash, P.C., Conner, N., Westerberg, V., Costa, L. (2020). Common ground: restoring land health for sustainable agriculture. Gland, Switzerland: IUCN. <https://portals.iucn.org/library/node/49094>

Optional study materials

[The superior effect of nature based solutions in land management for enhancing ecosystem services](#)

Keesstra, S. et al. (2018). The superior effect of nature based solutions in land management for enhancing ecosystem services. Science of The Total Environment, 610–611, pp. 997-1009, <https://doi.org/10.1016/j.scitotenv.2017.08.077>
(Not open access)

[Trees for life: The ecosystem service contribution of trees to food production and livelihoods in the tropics](#)

James Reed, Josh van Vianen, Samson Foli, Jessica Clendenning, Kevin Yang, Margaret MacDonald, Gillian Petrokofsky, Christine Padoch, Terry Sunderland. (2017). Trees for life: The ecosystem service contribution of trees to food production and livelihoods in the tropics. Forest Policy and Economics, 84, pp. 62-71, <https://www.sciencedirect.com/science/article/pii/S1389934117300345>

[IPBES Workshop on Biodiversity and Pandemics: Executive Summary](#)

(2020). *IPBES Workshop on Biodiversity and Pandemics: Executive Summary*. Bonn, Germany: IPBES Secretariat. <https://ipbes.net/sites/default/files/2020->

[10/IPBES%20Pandemics%20Workshop%20Report%20Executive%20Summary%20Final.pdf](#) Pages 5-9

[Tracking, targeting, and conserving soil biodiversity](#)

Carlos A. Guerra, C. A. et al. (2021). Tracking, targeting and conserving soil biodiversity. *Science*, 371, Issue 6526, pp. 239-241, DOI: 10.1126/science.abd7926. <https://science.sciencemag.org/content/371/6526/239>

[Better Finance, Better Food: Investing in the new food and land use economy](#)

Blended Finance Taskforce. *Better Finance, Better Food: Investing in the new food and land use economy*. London: Systemiq. <https://static1.squarespace.com/static/5acdc066c258b4bd2d15050b/t/5fbdf4a5145a8629dc75f6e7/1606284641579/Better+Finance%2C+Better+Food+-+Investing+in+the+new+food+and+land+use+economy.pdf> Pages 4-8

[Nature-Positive Recovery for People, Economy and Climate](#)

Nature 4 Climate. (2020). *Nature-Positive Recovery for People, Economy and Climate*.

Session four: Oceans and marine ecosystems: challenges, drivers and solutions

Essential study materials

IIED: These short videos are great resources to quickly get on board with three oceans issues:

[No hidden catch: why small-scale fisheries matter](#)

[Fiscal policy tools: creating a sustainable future for ocean and people](#)

[Governing the high seas: half of the planet that belongs to us all](#)

[Protecting the global ocean for biodiversity, food and climate](#)

Campaign for Nature. *Protecting the global ocean for biodiversity, food and climate.*

[Study in Nature: Protecting the Ocean Delivers a Comprehensive Solution for Climate, Fishing and Biodiversity](#)

Press release: <https://www.campaignfornature.org/protecting-the-global-ocean-for-biodiversity-food-and-climate#fact>

Full study: <https://www.nature.com/articles/s41586-021-03371-z>

Optional study materials

[Integrating climate adaptation and biodiversity conservation in the global ocean](#)

Tittensor, D.P. et al. (2019). Integrating climate adaptation and biodiversity conservation in the global ocean. *Science Advances*, 5.11, DOI: [10.1126/scia](https://doi.org/10.1126/scia)

[Mangrove management for climate change adaptation and sustainable development in coastal zones](#)

Jeffrey Chow (2018) Mangrove management for climate change adaptation and sustainable development in coastal zones, *Journal of Sustainable Forestry*, 37:2, 139-156, DOI: [10.1080/10549811.2017.1339615](https://doi.org/10.1080/10549811.2017.1339615)
(Not open access)

[The IPBES Conceptual Framework — connecting nature and people](#)

Diaz, S. et al. (2015). The IPBES Conceptual Framework- connecting nature and people. *Current Opinion in Environmental Sustainability*, vol 14, pp. 1-16, <http://dx.doi.org/10.1016/j.cosust.2014.11.002> Box 2, page 8

[The role of fish and fisheries in recovering from natural hazards: Lessons learned from Vanuatu](#)

Eriksson, H. et al. (2017). The role of fish and fisheries in recovering from natural hazards: Lessons learned from Vanuatu. *Environmental Science & Policy*, 76, pp. 50-58, <https://doi.org/10.1016/j.envsci.2017.06.012>
(Not open access)

[Oceans 21](#)

Oceans 21, a series of five ocean profiles including the Pacific and how they are being impacted by climate change and other stressors: <https://oceans21.netlify.app/>

[Blue economy: how a handful of companies reap most of the benefits in multi-billion ocean industries](#)

Viridin, J., Osterblom, H. & Jouffray, J-B. (2021). *Blue economy: how a handful of companies reap most of the benefits in multi-billion ocean industries*. The Conversation, <https://theconversation.com/blue-economy-how-a-handful-of-companies-reap-most-of-the-benefits-in-multi-billion-ocean-industries-153165>

[Marine reserves can mitigate and promote adaptation to climate change](#)

Roberts, C. M. et al. (2017). Marine reserves can mitigate and promote adaptation to climate change. *Proceedings of the National Academy of Sciences*, 114 (24) 6167-6175; DOI: [10.1073/pnas.1701262114](https://doi.org/10.1073/pnas.1701262114)

Session five: Increasing financial flows and the role of finance in sustaining nature

Essential study materials

[Chapter 6. Nature-based Solutions for Adaptation - Adaptation Gap Report 2020](#)

Kapos, V., M. De Mel, C. Rosenzweig, M. Kolenda, L. Emerton, and H. Neufeldt, 2021: Chapter 6: Nature-based solutions for adaptation. In *Adaptation Gap Report 2020*. United Nations Environment Programme, pp. 43-76 <https://wedocs.unep.org/handle/20.500.11822/34754>

[Final Report - The Economics of Biodiversity: The Dasgupta Review](#)

Dasgupta, P. (2021), *The Economics of Biodiversity: The Dasgupta Review*. (London: HM Treasury). <https://www.gov.uk/government/publications/final-report-the-economics-of-biodiversity-the-dasgupta-review>

[Mobilizing Private Finance for Nature](#)

The World Bank. (2020). *Mobilising private finance for nature*. <https://openknowledge.worldbank.org/handle/10986/35984>

[The Little Book of Investing in Nature](#)

Tobin-de la Puente, J. and Mitchell, A.W. (eds.), 2021. *The Little Book of Investing in Nature*, Global Canopy: Oxford. https://globalcanopy.org/wp-content/uploads/2021/01/LBIN_2020_EN.pdf, pages 207-210

Optional study materials

[Nature-based Solutions for Adaptation Are Underfunded — But Offer Big Benefits](#)

Bapna, M. & Fuller, P. (2021). *Nature-based Solutions for Adaptation are Underfunded- But Offer Big Benefits*. World Resources Institute. <https://www.wri.org/insights/nature-based-solutions-adaptation-are-underfunded-offer-big-benefits>

[Greening the Stimulus: investing in Nature](#)

Vivid Economics. (2020). *Greening the Stimulus: investing in Nature*. https://www.vivideconomics.com/wp-content/uploads/2020/01/210119-Greening-the-stimulus_clean.pdf

[The Green Renaissance: How to Rebuild the Global Economy](#)

The Green Renaissance Podcast: Episode 4 Financing a Nature-Positive Economy. <https://pod.link/1523645789/episode/05e9704452e1b34f66fc6815fcdf7554>

[Scaling up finance mechanisms for biodiversity](#)

OECD. (2011). *Scaling up finance mechanisms for biodiversity*. Paris:

OECD. <https://www.oecd.org/env/resources/OECD%20Finance%20for%20Biodiversity%20%5Bf%5D%20%5Br%5D%20WEB%20SM.pdf>. Pages 4-11

[How to Scale Up Investments in Nature](#)

The Nature Conservancy (2018). *How to scale up investments in nature*. Speech by former CEO Mark Tercek. <https://www.nature.org/en-us/about-us/who-we-are/our-people/mark-tercek/how-to-scale-up-investments-in-nature/>

[Transitioning to a Nature-Positive Economy by 2030](#)

RSPB (2021). *Transitioning to a nature-positive economy by 2030: implementing the Dasgupta Review on the economics of*

biodiversity. <https://www.rspb.org.uk/globalassets/downloads/documents/positions/transitioning-to-a-nature-positive-economy.pdf>

[Nature to the Rescue: How nature-based solutions move corporate water risk management beyond BAU](#)

Frank, A., Silber, T., & Lamb, C. (2018). *Nature to the rescue: How Nature-based Solutions are moving corporate water risk management beyond business-as-usual*. South Pole. <https://www.southpole.com/publications/water-white-paper-2018>
