



Dr. Ravindranath retired as a Professor from Centre for Sustainable Technologies of Indian Institute, Bangalore. His major areas of research and policy advocacy include; Climate Change, Forests, Bioenergy and Ecosystem Services. He has focused his research on various dimensions of Climate Change; Mitigation Assessment in land use sectors, Greenhouse Gas Emissions Inventory in Land Use Sectors, Impact of Climate Change and Vulnerability Assessment in Forests and Agro-ecosystems, Adaptation and Climate Resilience, and Forest Ecology.

He has also worked on Bioenergy, Biofuels and Biomass Production and Ecosystem Services. He has been an author for all reports of IPCC on mitigation of climate change in land use sectors, since the Second Assessment Report of IPCC. He is also an author for all recent reports of IPCC on Greenhouse Gas Inventory Guidelines. He has been an author for two reports of IPBES. He was a member of STAP of GEF (on climate change) and SAP (Scientific Advisory Panel) of UNEP for Global Environmental Outlook (GEO-6).

He is an expert for UNFCCC for GHG (Greenhouse Gas) inventory review process. He has published extensively on climate change, bioenergy and forest ecology. He has published 8 books (from Oxford and Cambridge Uni. Press, Kluwer, and Springer Publishers) out of which 4 are on Climate Change. He has published nearly 150 peer reviewed research papers, out of which about 60 are on Climate Change.

Selected Journal and Book Publications of Prof. N.H. Ravindranath

1. J Sharma and N H Ravindranath (2019). Applying IPCC 2014 framework for hazard-specific vulnerability assessment under climate change. ***Environmental Research Communication***, Vol. 1, No. 5, 2019.
2. Sharma J, Upgupta S, Mathangi J, Bala G, **N. H. Ravindranath**. (2017). Vulnerability of Forests in India: A National Scale Assessment. ***Environmental Management***, Vol 60, No. 3, pages 544 – 553, 2017.
3. Sharma. J, S Upgupta, Ra Kumar, R K Chaturvedi, G. Bala, **N H Ravindranath** (2015) Assessment of inherent vulnerability of forests at landscape level: a case study from Western Ghats in India. ***Mitigation and Adaptation Strategies for Global Change***.

DOI: 10.1007/s11027-015-9659-7, pages 29 - 44.

4. Sharma J, Chaturvedi RK, Bala G, **Ravindranath NH. 2013.** Challenges in Vulnerability Assessment for Forest Carbon Management under Climate Change, ***Carbon Management***, 2013, <https://doi.org/10.4155/cmt.13.35>.
5. Malini Nair, **N. H. Ravindranath**, Sharma, N, R Kattumuri and M Munshi, 2013. Poverty index as a tool for adaptation intervention to climate change in northeast India, ***Climate and Development, Volume 5, Issue 1***.
6. Chaitra., S. Uppgupta., L. D. Bhatta., J. Mathangi., D.S. Anitha., K. Sindhu., Vidya Kumar., N.K. Agrawal., M.S.R. Murthy., F. Qamar., Indu K. Murthy., J. Sharma., R.K. Chaturvedi., G. Bala and **N.H. Ravindranath.** 2018. Impact of Climate Change on Forests of Himalayan River Basins: Brahmaputra, Koshi and Indus, ***American Journal of Climate Change***, Vol. 7, No. 2, 271 – 294.
7. Priya Joshi., Indu K Murthy, G T Hegde, V Sathyanarayan, S Bhat, V Patil, and T Esteves and **N H Ravindranath**, 2018. Biophysical Quantification of Biodiversity and Ecosystem Services of Forest Ecosystems in the Western Ghats: A Case Study of Uttara Kannada District. ***Journal of Forestry Research*** volume 29, pages735–748(2018)
8. **N. H. Ravindranath**, Chaturvedi R K and Kumar P, 2017. Paris Agreement; research, monitoring and reporting requirements for India, ***Current Science***, VOL. 112, NO. 5, 10 pages 916 – 922, March 2017.
9. Asbjørn A, Anton Orlov, Chaturvedi R K, P Joshi, Sagadevan A, **N.H. Ravindranath.** 2017, Lost benefits and carbon uptake by protection of Indian plantations. ***Mitigation and Adaptation Strategies for Global Change*** volume 23, pages485–505(2017)
10. S. C. Sahu, Manish Kumar and **N. H. Ravindranath**, 2016. Carbon stocks in natural and planted mangrove forests of Mahanadi Mangrove Wetland, East Coast of India, ***Current Science***, VOL. 110, NO. 12, pages 2334 – 2341, 25 June 2016.
11. R Irfan, Shakil A R, R K Chaturvedi, **NH Ravindranath**, R Sukumar, Mathangi J, T V Lakshmi, J Sharma (2015) Projected Climate Change Impacts on Vegetation Distribution over Himalayas. ***Climatic Change***. DOI: 10.1007/s10584-015-1456-5.], pages 601 – 613.
12. Sharma J, R K Chaturvedi, G. Bala, **Ravindranath NH.**, (2015) Assessing “inherent vulnerability” of forests: a methodological approach and a case study from Western Ghats, India. ***Mitigation Adaptation Strategies to Global Change***, 20:4, 573-590.
13. S Uppgupta, J Sharma, Mathangi J, V Kumar, **N H Ravindranath** 2015 “Climate change impact and vulnerability assessment of forests in the Indian Western Himalayan region: A case study of Himachal Pradesh, India”, Climate Risk Management. ***Climate Risk Management***, pages 63 - 76.
14. Creutzig, F, **Ravindranath NH**, et al 2014. Bioenergy and climate change mitigation: an assessment, ***Global Change Biology***, July 2014.
15. **N H Ravindranath**, Murthy I K, Joshi P, S Uppgupta, S Mehra and S Nalin, 2014. Forest area estimation and reporting: implications for conservation, management and REDD+, ***Current Science***, Vol. 106, No. 9, 10 May 2014.
16. Rajiv K Chaturvedi, D. Ravindranath, **N.H. Ravindranath.** 2014. Mainstreaming Adaptation to climate change in Indian policy planning (2014) ***International Journal of Applied Economics and Econometrics***. ISSN 0971-8281.

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19. R K Chaturvedi, D. Ravindranath, **N.H. Ravindranath**. Mainstreaming Adaptation to climate change in Indian policy planning, *International Journal of Applied Economics and Econometrics*, 2014.
20. T Esteves, K V Rao, B Sinha, S S Roy, B Rao, S K Jha, AB Singh, P Vishal, S Nitasha, S Rao, Murthy I K, R Sharma, I Porsche, Basu K, **N H Ravindranath**, 2013. Agricultural and Livelihood Vulnerability Reduction through the MGNREGA, Vol XLVIII no 94 52, *Economic & Political Weekly*, December 28, 2013.
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23. **Ravindranath, N.H.** and Sita Lakshmi, C. and M, Ritumbra and Balachandra, P., 2011. Biofuel production and implications for land use, food production and environment in India *Energy Policy*, Elsevier, vol. 39(10), pages 5737-5745.
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27. Khajuria A. and **Ravindranath, N H**, 2012. Climate Change Vulnerability Assessment: Approaches DPSIR Framework and Vulnerability Index, *Journal of Earth Science and Climatic Change*, Volume 3, Issue 1.
28. Murthy I. K., A K Arvind and **Ravindranath N H.**, 2012. Potential for Increasing Carbon Sinks in Himachal Pradesh *Tropical Ecology*, 53 (3): 357-369.
29. **N.H. Ravindranath** and M Ostwald “Carbon Inventory Methods”, (*Advances in Global Change Springer Publishers, Berlin Research – Series*) 2008 – (**BOOK**)
30. **N. H. Ravindranath** and J. A. Sathaye Climate Change and Developing Countries (*Advances in Global Change Research - Series*) **Kluwer Academic Publishers, Dordrecht**, 2002. (**BOOK**)
31. Watson R., Noble I R., Bolin B., **Ravindranath N H**, et.al, Land Use, Land Use Change and Forestry: IPCC Special Report; **Cambridge University Press, Cambridge, UK**; 2000; (**BOOK**).