



Exploring Ecosystem-Based Approaches to Climate Change Adaptation

David Vačkář, Zuzana Harmáčková, Eliška Lorencová & Blanka Loučková, CzechGlobe - Global Change Research Centre, Academy of Sciences of the Czech Republic

ABSTRACT

Climate change presents one of the most important drivers influencing natural ecosystems and biodiversity (IPCC 2007). Ecosystem-based approaches to adaptation (EbA) have been recently put forward as a useful approach to buffering the impacts of climate change while sustaining ecosystems and biodiversity (Jones et al. 2012). Although current adaptation strategies tend to focus on technical, structural, social and economic developments, ecosystems and biodiversity can play a significant role in societal adaptation to climate change. A major advantage brought by EbA lies in parallel provision of climate change adaptations and delivery of multiple environmental co-benefits (Munang et al. 2013). In this poster we aim to explore the potential of EbA approaches to be mainstreamed into recent adaptation practices. As ecosystems and biodiversity are threatened by climate change, they likewise pose an option to adapt at the same time, as they provide a wide range of services mitigating the climate impacts, e.g. carbon sequestration, flood protection and prevention of soil erosion (Campbell et al. 2009).

REFERENCES

- IPCC (2007). Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, Cambridge, 976 pp.
- Campbell, A., Kapos, V., Scharlemann, J. P.W., Bubb, P., Chenery, A., Coad, L., Dickson, B., Doswald, N., Khan, M. S. I., Kershaw, F. and Rashid, M. (2009). Review of the Literature on the Links between Biodiversity and Climate Change: Impacts, Adaptation and Mitigation. Secretariat of the CBD, Montreal. Technical Series 42, 124 pp.
- Jones, H.P., Hole, D.G., Zavaleta, E.S. (2012). Harnessing nature to help people adapt to climate change. *Nature Climate Change* 2: 504-509.
- Munang, R., Thiaw, I., Alverson, K., Mumba, M., Liu, J., Rivington, M. (2013). Climate change and ecosystem-based adaptation: a new pragmatic approach to buffering climate change impacts. *Current Opinion on Environmental Sustainability* 5: 67-71.