

Vanessa Götz M. Sc. LENC s-govane@uni-greifswald.de

## **ARE MANGROVE FORESTS DOOMED TO DROWN?**

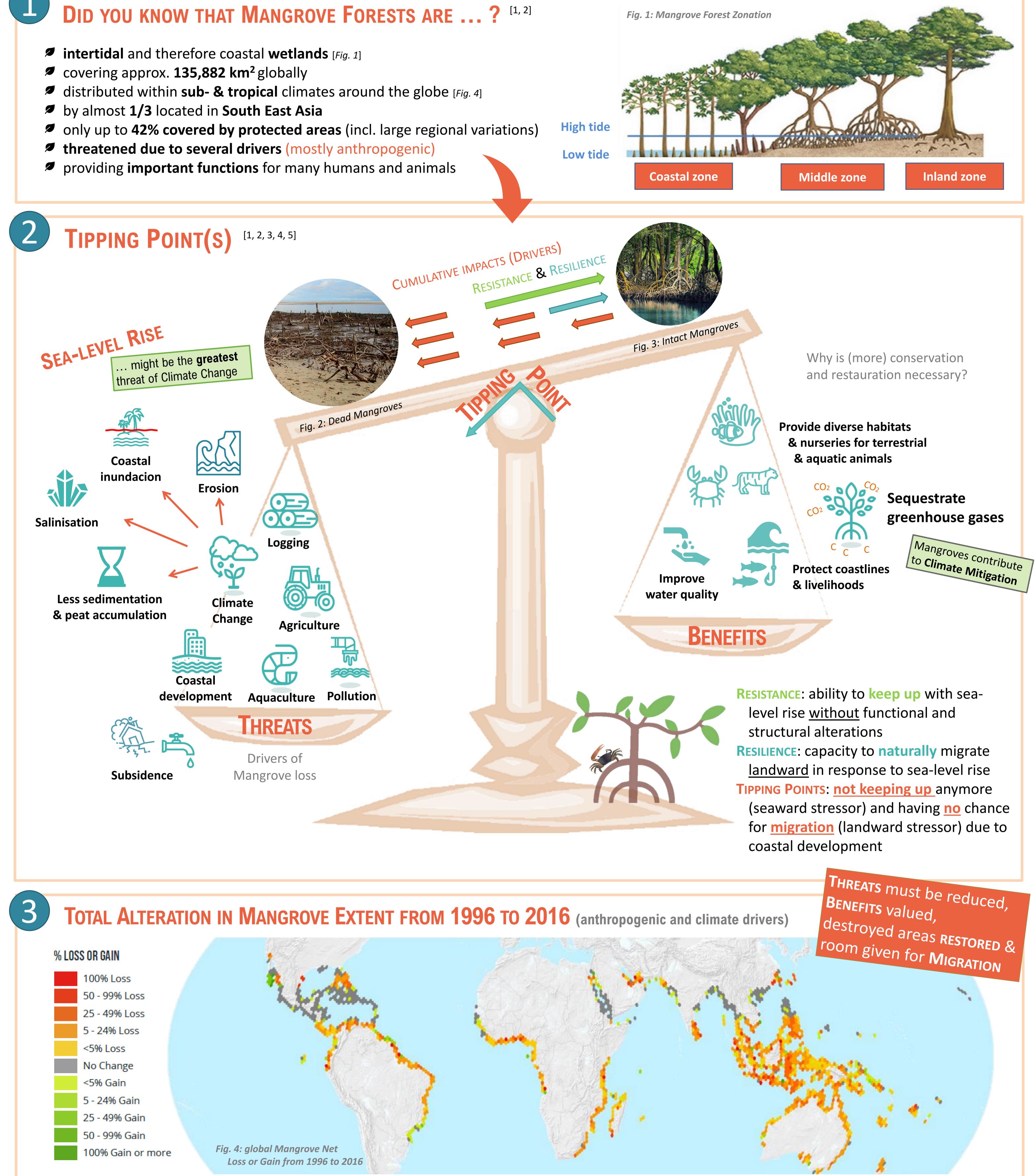


**Nina Ahlers** M. Sc. BioDiv na142186@uni-greifswald.de

## A coastal Ecosystem at Risk

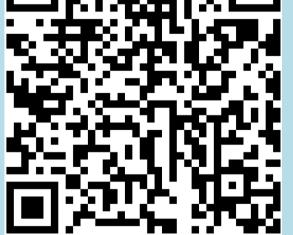


- only up to 42% covered by protected areas (incl. large regional variations)
- Ø





Please visit:



References: [1] Nagelkerken, I., Blaber, S. J. M., Bouillon, S., Green, P., Haywood, M., Kirton, L. G., Meynecke, J.-O., Pawlik, J., Penrose, H.M., Sasekumar, A. & Somerfield, P. J. (2008): The State of the World's Mangroves 2021. Global Mangrove Alliance: 79 p. ; [3] Gilman, E. L., Ellison, J., Duke, N. C. & Field, C. (2008): Threats to mangroves from climate change and adaptation options: A review. In: Aquatic Botany 89 (2008): pp. 237-250.; [4] Giri, C., Long, J., Abbas, S., Murali, R. M., Qamer, F. M., Pengra, B. & Thau, D. (2015): Distribution and dynamics of mangrove forests of South Asia. In: Journal of Environmental Management 148 (2015): pp. 101-111. ; [5] Walters, B. B., Rönnbäck, P., Kovacs, J. M., Crona, B., Hussain, S. A., Badola, R., Primavera, J. H. & Barbier, E. (2008): Ethnobiology, socio-economics and management of mangrove forests: A review. In: Aquatic Botany 89 (2008): pp. 220-236.

Figures: (1) [Fig. 1] http://praveenanageasen.blogspot.com/2015/07/mangroves.html; (2) [Fig. 2] https://www.treknature.com/gallery/South\_America/Brazil/Northeast/Ceara/photo225488.htm; [Fig. 3] https://www.pflanzenforschung.de/application/files/4215/6087/7485/Mangroven\_DomRep\_Anton\_Bielousov\_wikipedia.jpeg; [Cumulative impacts] based on: MURRAY-JONES, S (2013) (edit.) 'Proceedings of the Third Seagrass Restoration Workshop. Adelaide. March 2013.' Department for Environment, Water and Natural Resources, Adelaide: p. 14; [Pictograms Threats] SPALDING & LEAL (2021); [Pictogram Subsidence with House] https://www.vecteezy.com/vector-art/125550-mangrove-vector-set; [Pictogram Erosion] https://www.flaticon.com/de/premiumicon/welle\_2902671?related\_id=2902667&origin=search ; [Fiddler Crab clipart at the bottom of the scale] https://vecta.io/symbols/288/fauna-crustaceans/51/uca-annulipes-mangrove-fiddler-crab ; [Scale, modified] http://www.clipartbest.com/clipart-yckGEpdcE ; (3) [Fig. 4] SPALDING & LEAL (2021)