

### Population in Mangroves ecosystem and climate change

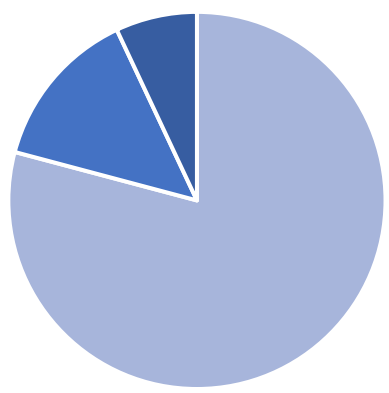
Myanmar is considered one of the most vulnerable countries to climate change and sea level rise

Myanmar coastline consists of large low-lying areas, including the Ayeyarwaddy Delta, where sea level rise projections would translate into increases in permanently flooded areas as well as increased frequency and magnitude of flooding

Sea level rise causes saltwater intrusion and flooding of agricultural land and ultimately threatens the livelihoods of farm households

The projected increase in sea levels is likely to carry flooding further inland in the future, resulting in even greater impacts: a 0.5 meter rise in sea levels could lead to a retreat of the coastline by approximately 10 kilometers in Myanmar's lowest lying areas (NAPA, 2012)  
 The most productive rain-fed farming areas and the rice-growing areas are not well protected against periodic saltwater intrusion during the monsoon periods. Therefore, flooding and saltwater intrusion, along with the rise in sea level, are becoming the main challenge for the farming communities in this zone

**Distribution of 9,716 mapped settlements between areas of mangroves and below 5 meters sea level**



- Mapped settlements not in mangroves or below 5M slm
- Mapped settlements below 5m slm
- Mapped settlements in mangroves and below 5m slm

As of June 2022, 9,716 settlements have been mapped in Myanmar. A total of 1,348 of the 9,716 mapped settlements are located in coastal areas at least five meters below sea level and 679 settlements are located in mangroves area

### Legend

- Administrative boundary
- Populated center
- Mangroves
- Area 5m below sea level

### Disclaimer

These maps are presented for public use, with no guarantee of accuracy or completeness. The geographic information contained on this site is not to be construed or used as a "legal description" and the Author is not responsible for the information reported, or for the use of boundaries, landmarks and other graphic elements. The data provided in this site are provided for informational and planning purposes only  
 Maps are produced by CAIRNS BD - HERc in collaboration with MALSE, a Myanmar-based social enterprise  
 For information and copies: [stefano.disperati@malse.net](mailto:stefano.disperati@malse.net)

