Title: Comparison of the link between coastal and marine climate risks and mangroves and coral reef ecosystems in Madagascar

Authors:
**Presenter:** RANDRIANIRINA Mampionona, [mrandrianirina@wwf.mg](mailto:mrandrianirina@wwf.mg), WWF Madagascar
RAZAFINDRAMASY Fanja, [frazafindramasy@wwf.mg](mailto:frazafindramasy@wwf.mg), WWF Madagascar,
RATOVONIRINA Mario, [mratovonirina@wwf.mg](mailto:mratovonirina@wwf.mg), WWF Madagascar
RANAIVOSON Tahirya, [tranaivoson@wwf.mg](mailto:tranaivoson@wwf.mg), WWF Madagascar
RAKOTOMALALA Heritiana, [hrakotomalala@wwf.mg](mailto:hrakotomalala@wwf.mg), WWF Madagascar

Mangroves and coral reefs are coastal and marine ecosystems that are likely to be impacted by climate change in the future, mainly because of sea level rise and sea surface temperature rise. In this scope, WWF Madagascar has collaborated with C-RISe project to develop Use cases on the influence of coastal and marine climate risks on ecosystems in Madagascar, such as mangroves in the West and North of Madagascar and coral reefs in the South of Madagascar. The climate data comes mainly from C-RISe project, and the biological data is provided by WWF Madagascar. The aim of this study is to compare if climate data influence the ecosystems differently, regarding locations. The results demonstrated that coastal and marine climate risks affect but influence differently these ecosystems. The results will help WWF Madagascar and key stakeholders to better conserve and manage them in the context of a changing climate, but also to build a strong monitoring system that takes into account climate risks. The Use cases will also contribute to the enhancement of C-RISe data.