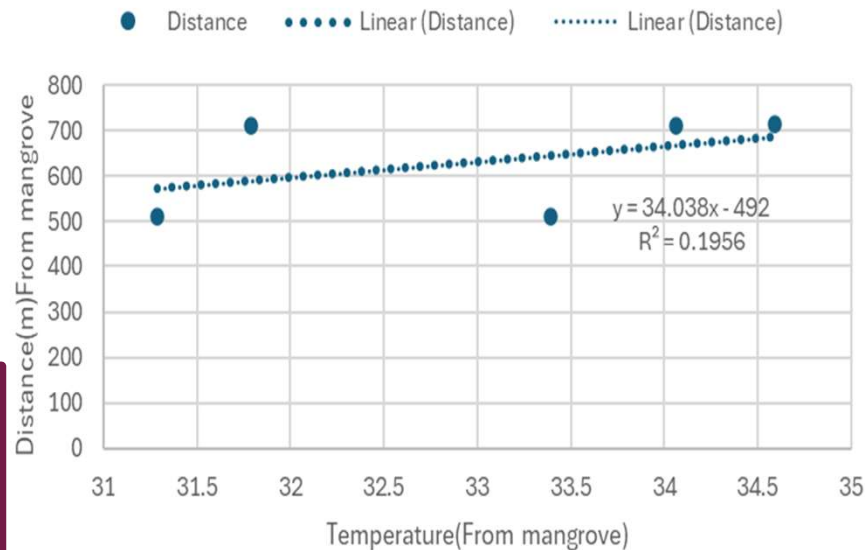


Integrating Mangrove and Coral Health- by Olendo

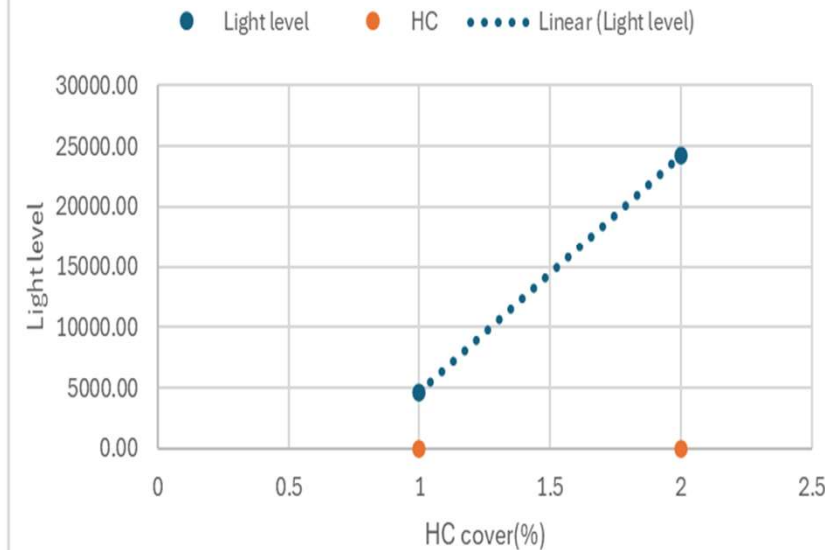
Background

Mangroves protect the coastline, help in coral health.

Relationship between Temperature and Distance



Relationship between Light Level & HC cover



Aim

To determine if mangrove presence mitigates thermal stress on nearby coral reefs.

Research question

How do mangroves affect coral health in relation to temperature, distance, light levels and coral cover?

Method

This research project was done within MND (Walindi, Kimbe Bay).

Sites: Mangrove, BGG, FR

Quantitative aspects: Logger (Temperature, Light); Benthic survey (LPT); Google Earth (Distance, Location); Correlations (Scatter plots).

Results and implications

-Weak positive relationship between temperature and distance. As the distances increases, the temperature is slightly increased.

-Strong positive relationship between light level and hard coral (HC) cover. As the light level increases the HC also increases.