





And with it, a vital tool for cleaning up heat-trapping carbon pollution

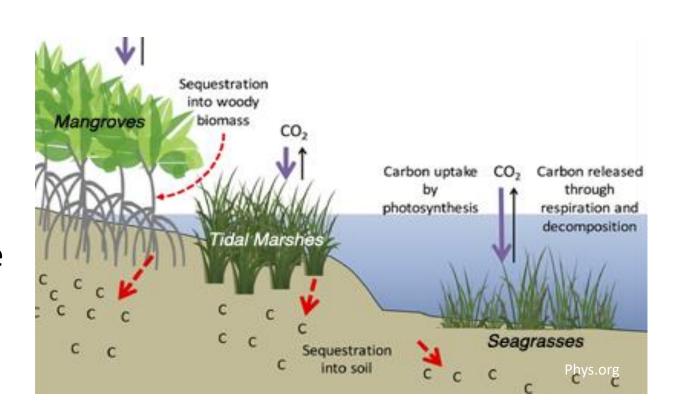




Why should we care?

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- Cover only the 0.2% of the ocean's surface
- Amongst the most productive ecosystem
- Store up to 10% of C in the oceans
- Together with mangroves form Blue Carbon Ecosystem



What is a BCE?

- Vegetated coastal habitats
- High carbon sequestration rate







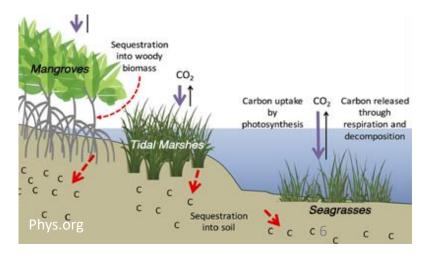


What is a BCE?

- High flux of exchange: organisms, nutrients and sediments
- Provide important ecosystem services: fishing grounds, wave protection and oxygen production







What we actually did?

• Importance of seagrass meadows on storing allochthonous carbon



What we actually did?

** 60

• Importance of seagrass meadows on storing allochthonous carbon



Where?

- Gazi bay, Kwale county, Kenya
- 615 ha of mangrove forest

What did we find?



- Allochthonous mangrove carbon, major source (25 – 40%)
- Seagrass plant parts, contribute importantly (20 – 70%)
- Mangrove-derived carbon enhance the burial rate

So, what does this mean?

 Seagrass meadows are important sites for carbon storage and limit the exportation of mangrove-derived carbon

 Contiguous mangrove-seagrass ecosystem increase the rate of carbon storing

 Conservation measures are fundamental for mitigation of climate change









Community-led projects

- Carbon offsetting schemes
- Woman's boardwalk
- Mikoko Pamoja project
- Puunguza project







Community-led projects







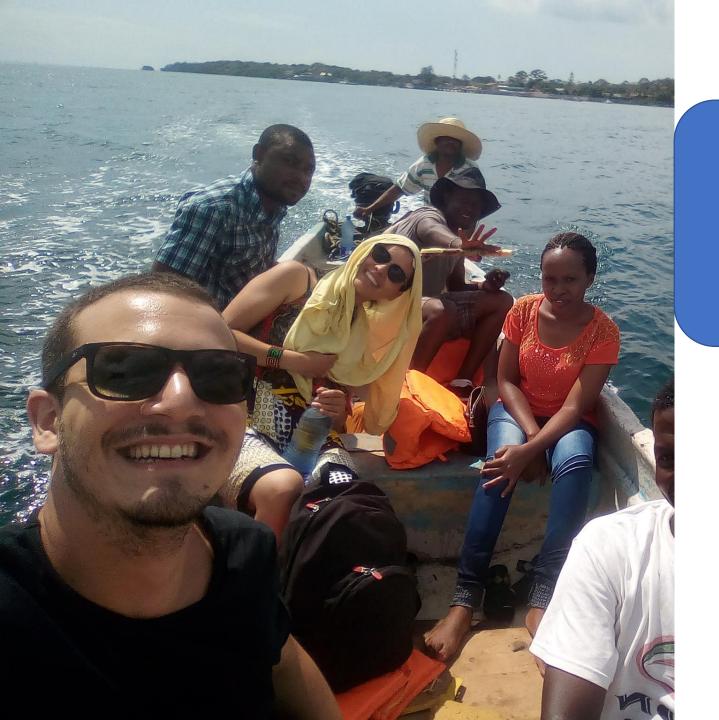












Thank for your attention!