

Epiphyte Diversity And Biom Loads Of Canopy Emergent

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The first nation-wide assessment identifies valuable blue ...
Beta-diversity patterns were assessed across samples using weighted and unweighted UniFrac metrics ... (0.36 ± 0.03 g), epiphyte load (375.25 ± 40.60 mg epiphyte · g dry leaf⁻¹) and survivorship (16 plants remaining). Figure 2. Open in new tab ... relationship to land-

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derived nitrogen loads and effect of light limitation imposed by ...

FOREST CANOPIES: Methods, Hypotheses, and Future ...

Increases in epiphyte loads, both annual algae and suspension feeders, as well as annual benthic macroalgae and microphytobenthos have been associated with increased organic and nutrient loading from fish farms or other sources (Table 1; Lever & Valiela, 2005; Ben Brahim et al., 2014), thus reflecting enrichment conditions.

Dar Es salaam Institute of Technology | Science and ...

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Potential impacts of finfish aquaculture on eelgrass ...

Reduced seawater pH due to elevated carbon dioxide (CO₂), a process known as ocean acidification (OA), is a globally significant environmental issue. OA is predicted to influence a range of ecosystem processes, but little is known about how changing seawater carbon chemistry could influence the extent and impacts of epiphytism. In the brackish Baltic Sea, increased epiphytism is associated ...

Linking Composition, Structure and Functions of Biodiversity

Numerous studies have shown that good water quality is the most important factor needed for eelgrass sustainability as turbidity and high epiphyte loads can rapidly decimate meadows.

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Despite this knowledge, however, there are few demonstrations of seagrass recovery owing to improved physical and chemical conditions alone (Tomasko et al., 2005).

(PDF) Epiphyte diversity and biomass loads of canopy ...

Epiphyte abundance varies at different spatial scales, yet epiphyte diversity and community composition are poorly understood. This study explores the epiphytes on *C. nodosa* from two reference ...

Epiphyte Diversity And Biom Loads

Epiphyte loads per tree ranged between 134 and 144kg dry mass, with 60–70% water. The hemi-epiphytic tree *R. laetevirens* added between 1 and 2.6t of dry mass to each host tree.

FCE II Year Five Annual Report for NSF Award DBI-0620409 ...

The rigorous demonstration of truly stable alternate community states is elusive in marine ecosystems and might remain so for some time. Examples of marine community states that have shifted are nevertheless increasingly conspicuous. The growing concern over these altered community states is often related to questions of persistence and reversibility, especially when these shifted states are ...

Assessing Structure, Resilience and Habitat Quality of ...

In the absence of epiphyte grazers, a rapid build-up of epiphytes on SAV leaves can occur in eutrophied areas (Howard and Short 1986). Experiments have shown that a five-fold greater

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above ground biomass of *Z. marina* is possible in treatments with epiphyte grazers present than in treatments without grazers (Hootsmans and Vermaat 1985).

Effects of land-use change on vascular epiphyte diversity ...

Large trees support substantial epiphyte loads, composed by many plant species. Then, large old trees represent structures that support PAGE 49 49 the taxonomic composition of epiphytes. Epiphyte loads enhance ecosystem processes including water and nutrient cycling.

(PDF) Aspects of the ecology of Indo-Pacific seagrass ...

Academia.edu is a place to share and follow research. Abstract This study assessed the concentrations and distribution of nutrients (ammonium, nitrate, nitrite, soluble reactive phosphorous) and bacteria (total and faecal coliforms) in the waters off Zanzibar Town.

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Assessing Structure, Resilience and Habitat Quality of *Thalassia Testudinum* Meadows along a Gradient in Nutrient Concentrations. Item menu

Potential impacts of finfish aquaculture on eelgrass ...

Therefore, the following parameters were included: seagrass species richness, seagrass cover, macroalgal cover, epiphyte cover, and water transparency (Suppl. Table 1). 2.2.1.

Seagrass species richness. Species diversity is essential in resilience, since it maintains the ecosystem functioning, especially during periods of stress.

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(PDF) Biomass and nutrient pools of canopy and terrestrial ...
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Distribution, structure and function of Nordic eelgrass ...
Eelgrass (*Zostera marina*) has been designated an Ecologically Significant Species in Atlantic Canada. The development and rapid expansion of netpen finfish aquaculture into sensitive coastal habitats has raised concerns about the impacts of finfish aquaculture on eelgrass habitats. To date, no studies have been done in Atlantic Canada to examine these impacts or to identify potential ...

Could ocean acidification influence epiphytism? A ...
Numerous studies have shown that good water quality is the most important factor needed for eelgrass sustainability as turbidity and high epiphyte loads can rapidly decimate meadows. Despite this knowledge, however, there are few demonstrations of seagrass recovery owing to improved physical and chemical conditions alone (Tomasko et al., 2005).

Distribution, structure and function of Nordic eelgrass ...
Trunk and branch epiphyte biomass in the primary forest was over 40 times and 100 times greater than trunk and branch epiphyte biomass in the secondary forest. The bulk (ca. 95%) of the ecosystem biomass in trunk and branch wood, which is slower to decompose than the non-woody, labile components of foliage and non-woody epiphytes.

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Nutrient enrichment increases size of *Zostera marina* ...

Abstract Forest canopies contain a major portion of the diversity of organisms on Earth and constitute the bulk of photosynthetically active foliage and biomass in forest ecosystems. For these reasons, canopy research has become integral to the management of forest ecosystems, and to our better understanding of global change. Ecological research in forest canopies is relatively recent and has ...

Chesapeake Bay Submerged Aquatic Vegetation Habitat ...

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(PDF) Diversity and composition of algal epiphytes on the ...

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