

IB Biology Ecology Internal Assessment:

Aim:

To investigate how the construction of recreational areas changes the ecology of the original natural land area.

Research Question:

To what extent does the construction of recreational areas (basketball court, outdoor stage, artificial turf field) affect the original ecology of the natural land, via the comparison of change in biomass (g/m^2), energy (kJ) and carbon (g/m^2), found via the quadrat sampling of the recreational areas.

Hypothesis:

"The construction of the basketball court, artificial turf field and outdoor stage will cause the most to the least destruction of the ecology compared to the original land accordingly." The hypothesis was made as I presumed naturally, an area which most closely mimicked the former land such as the artificial turf, would attract the natural ecology thus causing the least destruction of ecology.

Background Knowledge:

Ecology can be broadly defined as the interaction between organisms and its' environment, encompassing biomass, energy and the carbon cycle, all being factors of ecology.

Biomass more specifically defined as the mass of living organisms, including animals, plants, microorganism and other biochemical life forms, measured via mass per unit area (g/m^2). (Fah, 2014) The carbon cycle, another component of ecology, is essential to the natural recycling of organic compounds such as carbon, present in all living organisms. The flow of energy is a constant part of ecology as energy is assimilated from one trophic level to the next, a drastic change in the population size of key initial trophic levels, such as the Producers (grass), would result in massive knock on effects throughout the food web and disrupting the energy flow and adversely affecting the biodiversity in these natural communities.

For example, a food chain found in land surrounding the basketball court would be as follows:



Grass (*Anonopus compressus*) — Caterpillar (larvae) — Lizard (*Hemidactylus frenatus*) — Bird (*Zosterops lateralis*)

Food webs are formed via the compilation of food chains, as only 10% of energy is passed on from one trophic level to another, a drastic cut in population size of a primary producer would result in exponential knock on effects, possibly resulting in the destruction of the food chain entirely if the primary consumer (caterpillar larvae), lacks other sources of energy another than the producer (*Anonopus compressus*). Only 10% of energy is assimilated as the other 90% is lost either via cellular respiration, heat loss, excreted or remained unconsumed. As shown above, the removal of grass to accommodate for recreational areas would result in a shortage of sustenance for the caterpillar, which in turn is prey for the lizard, demonstrating the interrelation between the species' population.

Personal Engagement:

When I was 8 years old my father bought me the movie "The inconvenient truth". Since then, I've been fascinated by global environmental issues including the effects of man made building. Having lived in New York, Milan, and Singapore I have first hand seen the positive and negatives affects of urbanization. While Singapore's transformation from a port town to a metropolis has greatly improved

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RJ Shavelson



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Proceedings of the Estonian Academy of Sciences, Biology and Ecology ,2001-09 Statutes and Ordinances of the University of Cambridge 2004 University of Cambridge,2004-09-30 This is the latest updated edition of the University of Cambridge s official statutes and Ordinances **Ecology** J. L. Chapman,M. J. Reiss,1999 This is a comprehensive textbook for A level students and first year undergraduates taking courses in biology geography and Earth sciences Statutes and Ordinances of the University of Cambridge 2008 University of Cambridge,2008-09-25 This is the latest updated edition of the University of Cambridge s official statutes and Ordinances Insect Bioecology and Nutrition for Integrated Pest Management Antonio Ricardo Panizzi,Jose R. P. Parra,2012-03-08 The field of insect nutritional ecology has been defined by how insects deal with nutritional and non nutritional compounds and how these compounds influence their biology in evolutionary time In contrast Insect Bioecology and Nutrition for Integrated Pest Management presents these entomological concepts within the framework of integrated pest m Ecological Understanding Steward T.A. Pickett,Jurek Kolasa,Clive G. Jones,2013-10-22 Ecology is an historical science in which theories can be as difficult to test as they are to devise This volume intended for ecologists and evolutionary biologists reviews ecological theories and how they are generated evaluated and categorized Synthesizing a vast and sometimes labyrinthine literature this book is a useful entry into the scientific philosophy of ecology and natural history The need for integration of the contributions to theory made by different disciplines is a central theme of this book The authors demonstrate that only through such integration will advances in ecological theory be possible Ecologists evolutionary biologists and other serious students of natural history will want this book Statutes and Ordinances of the University of Cambridge 2009 University of Cambridge,2009-10-08 The 2009 10 volume of the formal governing regulations of the University of Cambridge annually updated *William Wordsworth and the Ecology of Authorship* Scott Hess,2012 In William Wordsworth and the Ecology of Authorship Scott Hess explores Wordsworth s defining role in establishing what he designates as the ecology of authorship a primarily middle class nineteenth century conception of nature associated with aesthetics high culture individualism and nation Instead of viewing Wordsworth as an early ecologist Hess places him within a context that is largely cultural and aesthetic The supposedly universal Wordsworthian vision of nature Hess argues was in this sense specifically male middle class professional and culturally elite factors that continue to shape the environmental movement today **Urban Ecology** Philip James,Ian Douglas,2023-12-22 This fully revised second edition reflects the great expansion in urban ecology research action and teaching since 2015 Urban ecology provides an understanding of urban ecosystems and uses nature based techniques to enhance habitats and alleviate poor environmental conditions Already the home to the majority of the world s people urban areas continue to grow causing ecological changes throughout the world To help students of all professions caring for urban areas and the people animals and plants that live in them the authors set out the environmental and ecological science of cities linkages between

urban nature and human health urban food production in cities and how we can value urban nature The authors explore our responsibilities for urban nature and greening ecological management techniques and the use of nature based solutions to achieve a better more sustainable urban future and ensure that cities can climate change and become more beautiful and more sustainable places in which to live This text provides the student and the practitioner with a critical scientific overview of urban ecology that will be a key source of data and ideas for studies and for sound urban management Statutes and Ordinances of the University of Cambridge 2007 University of Cambridge,2007-10-04 This is the latest updated edition of the University of Cambridge s official statutes and Ordinances Environment and Society in the Long Late Antiquity ,2019-01-04 Environment and Society in the Long Late Antiquity brings together scientific archaeological and historical evidence on the interplay of social change and environmental phenomena at the end of Antiquity and the dawn of the Middle Ages covering the period ca 300 800 AD It gives a new impetus to the study of the environmental history of this crucial period of transition between two major epochs in premodern history The volume contains both systematic overviews of the previous scholarship and available data as well as a number of interdisciplinary case studies It covers a wide range of topics including the histories of landscape climate disease and earthquakes all intertwined with social cultural economic and political developments Contributors are Daniel Abel Schaad Francesca Alba S nchez Flavio Anselmetti Jos Antonio Lopez S ez Daniel Ariztegui Brunhilda Brushulli Yolanda Carri n Marco Alexandra Chavarr a Petra Dark Carmen Fernandez Ochoa Martin Finn Asuunta Florenzano Ralph Fyfe Didier Galop Benjamin Graham John Haldon Kyle Harper Richard Hodges Adam Izdebski Katarina Kouli Inga Labuhn Tamara Lewit Anna Maria Mercuri Alessia Masi Lucas McMahon Lee Mordechai Mario Morell n Timothy Newfield Almudena Orejas Saco del Valle Leonor Pe a Chocarro Sebasti n P rez D az Eleonora Regattieri Stephen Rippon Neil Roberts Laura Sadori Abigail Sargent Gaia Sinopoli Paolo Squatriti Giovanni Stranieri Raymond van Dam Bernd Wagner Mark Whittow Penelope Wilson Jessie Woodbridge See inside the book **Proceedings of the Symposium on Giant Sequoias: Their Place in the Ecosystem and Society** ,1994 *Statutes and Ordinances of the University of Cambridge 2015* University of Cambridge,2015-10-08 The official Statutes and Ordinances of the University of Cambridge The Oxford Handbook of Historical Ecology and Applied Archaeology Christian Isendahl,Daryl Stump,2019-01-10 The Oxford Handbook of Historical Ecology and Applied Archaeology presents theoretical discussions methodological outlines and case studies describing the field of overlap between historical ecology and the emerging sub discipline of applied archaeology to highlight how modern environments and landscapes have been shaped by humans Historical ecology is based on the recognition that humans are not only capable of modifying their environments but that all environments on earth have already been directly or indirectly modified This includes anthropogenic climate change widespread deforestations and species extinctions but also very local alterations the effects of which may last a few years or may have legacies lasting centuries or more With contributions from anthropologists archaeologists human geographers and

historians this volume focuses not just on defining human impacts in the past but on the ways that understanding these changes can help inform contemporary practices and development policies Some chapters present examples of how ancient or current societies have modified their environments in sustainable ways while others highlight practices that had unintended long term consequences The possibilities of learning from these practices are discussed as is the potential of using the long history of human resource exploitation as a method for building or testing models of future change The volume offers overviews for students researchers and professionals with an interest in conservation or development projects who want to understand what practical insights can be drawn from history and who seek to apply their work to contemporary issues

Bahamas Bound Donna Hellman,1996 **Life in the World's Oceans** Alasdair McIntyre,2010-11-18 Life in the World's Oceans Diversity Abundance and Distribution is a true landmark publication Comprising the synthesis and analysis of the results of the Census of Marine Life this most important book brings together the work of around 2000 scientists from 80 nations around the globe The book is broadly divided into four sections covering oceans past oceans present oceans future and a final section covering the utilisation of the data which has been gathered and the coordination and communication of the results Edited by Professor Alasdair McIntyre Marine Life is a book which should find a place on the shelves of all marine scientists ecologists conservation biologists oceanographers fisheries scientists and environmental biologists All universities and research establishments where biological earth and fisheries science are studied and taught should have copies of this essential book on their shelves A true landmark publication One of the most important marine science books ever published Contributions from many world leading researchers Synthesis of a huge amount of important data Represents the culmination of 10 years research by 2000 scientists from 80 countries

Coral Reefs: An Ecosystem in Transition Zvy Dubinsky,Noga Stambler,2010-12-02 This book covers in one volume materials scattered in hundreds of research articles in most cases focusing on specialized aspects of coral biology In addition to the latest developments in coral evolution and physiology it presents chapters devoted to novel frontiers in coral reef research These include the molecular biology of corals and their symbiotic algae remote sensing of reef systems ecology of coral disease spread effects of various scenarios of global climate change ocean acidification effects of increasing CO2 levels on coral calcification and damaged coral reef remediation Beyond extensive coverage of the above aspects key issues regarding the coral organism and the reef ecosystem such as calcification reproduction modeling algae reef invertebrates competition and fish are re evaluated in the light of new research and emerging insights In all chapters novel theories as well as challenges to established paradigms are introduced evaluated and discussed This volume is indispensable for all those involved in coral reef management and conservation

Democratic Management of an Ecosystem Under Threat Kelly Dunning,2023-07-11 Using case studies from Florida and the Caribbean region this book summarizes the state of coral reef conservation today The question this book answers is what is the best way to protect the vulnerable coral reefs with an ever worsening climate crisis The book's contribution is looking

closely at people's avenues to participate in coral reef management and how the public is increasingly making their voices heard in the management process

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