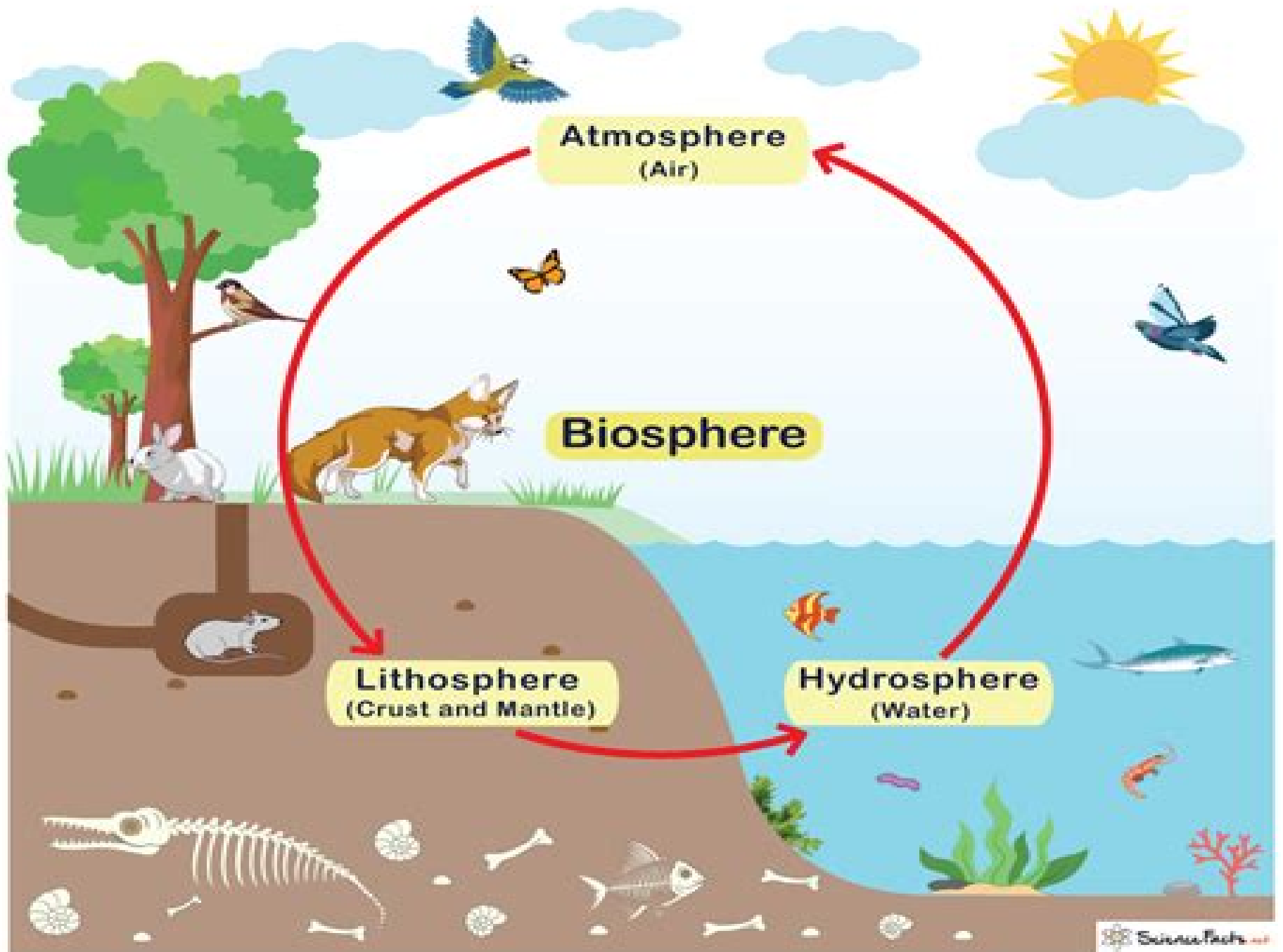




The Biosphere

Daniel F McAuley



The Biosphere:

The Biosphere Vladimir I. Vernadsky, 2012-12-06 Long unknown in the West The Biosphere established the field of biogeochemistry and is one of the classic founding documents of what later became known as Gaia theory It is the first sustained expression of the idea that life is a geological force that can change Earth's landforms its climate and even the contents of its atmosphere A complete unabridged translation has never before been available in English This edition complete with extensive annotations an introductory essay placing the work in its historical context and explaining its relevance to readers today and a foreword cosigned by a stellar group of international experts will be the definitive edition of this classic work What Darwin did for life through time Vernadsky did for life through space on a geological scale **The Biosphere** Natarajan Ishwaran, 2012-03-14 In this book entitled The Biosphere researchers from all regions of the world report on their findings to explore the origins evolution ecosystems and resource utilization patterns of the biosphere Some describe the complexities and challenges that humanity faces in its efforts to experiment and establish a new partnership with nature in places designated as biosphere reserves by UNESCO under its Man and the Biosphere MAB Programme At the dawn of the 21st century humanity is ever more aware and conscious of the adverse consequences that it has brought upon global climate change and biodiversity loss We are at a critical moment of reflection and action to work out a new compact with the biosphere that sustains our own wellbeing and that of our planetary companions This book is a modest attempt to enrich and enable that special moment and its march ahead in human history *The Biosphere and Noosphere Reader* David Pitt, Paul R. Samson, 2012-10-02 The Reader is the first comprehensive history of the noosphere and biosphere Drawing on classical influences modern parallels and insights into the future the Reader traces the emergence of noosphere and biosphere concepts within the concept of environmental change Reproducing material from seminal works both past and present key ideas and writings of prominent thinkers are presented including Bergson Vernadsky Lovelock Russell Needham Huxley Medawar Toynbee and Boulding and extensive introductory pieces but the editors draw attention to common themes and competing ideas Focussing on issues of origins theories parallels and potential the discussions place issues in a broad context compare and contrast central concepts with those of the Gaia hypothesis sustainability and global change and examine the potential application of noospheric ideas to current debates about culture education and technology in such realms as the Internet space exploration and the emergence of super consciousness Literally the sphere of mind or intellect the noosphere is apart of the realm of the possible in human affairs where there is a conscious effort to tackle global issues The noosphere concept captures a number of key contemporary issues social evolution global ecology Gaia deep ecology and global environmental change contributing to ongoing debates concerning the implications of emerging technologies The Biosphere and Civilization: In the Throes of a Global Crisis Victor I. Danilov-Danil'yan, Igor E. Reyf, 2018-03-21 This monograph explores the dire ecological social and economic situations facing mankind through comprehensive analyses of

global ecological issues poverty environmental stability and regulation and sustainable development Drs Victor Danilov Danil yan and Igor Reyf discuss the development of ecology as a science the increasing concern among scientists and public servants for the unsustainability of current economic and demographic trends and the dire consequences our planet and civilization are already suffering as a result of the ongoing environmental and social crisis They also address the philosophical implications of the crisis and suggest possible solutions The book conveys complex objects of study namely the biosphere and the harmful anthropogenic processes it has been experiencing for decades so that the work is accessible without omitting key components of the subject matter Readers will learn about the social and economic contributors to a threatened biosphere the mechanisms that maintain the stability of the global environment and the scales at which sustainable development and preservation can be applied to initiate environmental regulation Though intended to appeal to the general public and non specialists environmental researchers organizations involved in sustainable development and conservation and students engaged in ecology environment and sustainability studies will also find this book of interest

How the Biosphere Works Fred Spier, 2022-04-25 How the Biosphere Works Fresh Views Discovered While Growing Peppers offers a simple and novel theoretical approach to understanding the history of the biosphere including humanity's place within it It also helps to clarify what the possibilities and limitations are for future action This is a subject of wide interest because today we are facing a great many environmental issues many of which may appear unconnected Yet all these issues are part of our biosphere For making plans for the future and addressing our long term survival and well being an integrated knowledge of our biosphere and its history is therefore indispensable Key Features Documents what the biosphere is and what our position as humans within it is today Describes how the biosphere has become the way it is Summarizes the novel simple theoretical model proposed in the book and thus how the biosphere functions Predicts what the possibilities and limitations are for future human action Emphasizes how simple but careful observations can lead to far reaching theoretical implications

The Biosphere, Problems and Solutions, 2011-09-22 The Biosphere Problems and Solutions The Evolution of the Biosphere M.I. Budyko, 2012-12-06 THE STUDY OF THE BIOSPHERE The term biosphere first appeared in the works of the French biologist L B Lamarck and the Austrian geologist E Suess in the 19th century In the 20th century the study of the biosphere attracted considerable attention largely due to the research of V I Vernadsky 1863 1945 The results of Vernadsky's investigations have appeared in a number of publications including the monograph The Biosphere published in 1926 This work consists of two parts The Biosphere in Cosmos and The Zone of Life written in a form of speculation and reflection that is rarely used in modern studies This work concerns the distinguishing properties of the space occupied by organisms and the exceptional importance of the activities of these organisms in the formation of their environment In this and subsequent studies Vernadsky has laid the foundations of the science of the biosphere which today plays an important role in the many branches of science concerned with the Earth Several terms have been suggested for

the science of the biosphere including global ecology a discipline studying the global ecological system whose meaning is close to that of the biosphere One of the most prominent predecessors of Vernadsky was his teacher V **Ecology and the Biosphere** Sharon L. Hanks,1996-05-01 Here is a valuable one semester course text for non science majors that delivers It is concise focused on material that will enable students to make intelligent choices about the future of the earth and written in a style that will enable students to make connections to their own lives Students want to know how science relates to their lives how the biosphere works what is wrong with it and what they can do to make a difference Now there is a new text that provides the information students need and gives real life examples that make the learning process more interesting and relevant THREE MAIN DIVISIONS OF TEXT 1 What science is and what students need to know about it 2 The biosphere how it works and its current problems 3 What students can do about the problems ABOUT THE AUTHOR Dr Sharon La Bonde Hanks teaches biology at William Paterson College in New Jersey She holds a Ph D from Rutgers University Her 33 years in teaching have concentrated on biology and environmental science with research focused on ecology taxonomy and systematic palynology She has a special interest in writing about the discipline assessment and race gender issues in science Hanks is the author of a major text on how to teach biology using the process approach In addition she runs workshops and is a consultant an expert perennial gardener and naturalized landscaper and an avid student of Tai Chi She is most proud of her memberships in the New Jersey Audubon Weis Ecology Center Habitat for Humanity and the Nature Conservancy

Dreaming the Biosphere Rebecca Reider,2010-04-26 Reider tells the tangled tale of the creation and eventual disintegration of the experimental eco utopia known as Biosphere 2 **Bringing the Biosphere Home** Mitchell Thomashow,2001-10-26 A guide for understanding the ecological and existential aspects of global environmental change This book shows how to make global environmental problems more tangible so that they become an integral part of everyday awareness At its core is a simple assumption that the best way to learn to perceive the biosphere is to pay close attention to our immediate surroundings Through local natural history observations imagination and memory and spiritual contemplation we develop a place based environmental view that can be expanded to encompass the biosphere Interweaving global change science personal narrative and commentary on a wide range of scientific and literary works the book explores both the ecological and existential aspects of urgent issues such as the loss of biodiversity and global climate change Written in a warm engaging style Bringing the Biosphere Home considers the perceptual connections between the local and global how the ecological news of the community is of interest to the world and how the global movement of people species and weather systems affects the local community It shows how global environmental change can become the province of numerous educational initiatives from the classroom to the Internet from community forums to international conferences from the backyard to the biosphere It explains important scientific concepts in clear nontechnical language and provides dozens of ideas for learning how to practice biospheric perception

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