Impossible Extinction: Natural Catastrophes and the Supremacy of the Microbial World

Book reviews

Book Review: Impossible Extinction – Natural catastrophes and the supremacy of the microbial world Charles S. Cockell

Cambridge University Press, Cambridge (2003)
181 pages - LiSSO (USSSB) - ISSNO 93218736 6
10.1017/3147350040211630
Like all good books, Impossible Extinction is a journey – a cosmic journey as the Earth and the solar system travel around the centre of our Galaxy in a galactic year of 225 million years. During this epi journey, there are numerous hazards and dangers to be encountered. Rather than taking a bazards and dangers to be encountered. Rather than taking a catalog of the control of the control of the control of the catalog of the cat is no direct evidence of such having caused a mass extinction. There is also the possibility of super-volcanic eruptions on Earth, such as the cruption of the Decean Traps some 55 million years ago, which appear to have occurred nine times during the last 225 million years of geological history. The final, potentially catastrophic event is that produced by humans—the degradation of our environment through pollution has added a further danger to the survival of our

pollution has adoct a further danger to the survival of our fellow creatures (and ourselves).

Yet, despite all these hazards with their devastating effects on animals and plants, microbes appear to survive, and perhaps even thrive. This is the linking thread throughout

the whole book – that microbial life is ubiquitous and this ubiquity, from the depths of the oceans to the bowels of the Earth's crust, provides the key to microbes' survival. Hence the title of the book – despite all the insults to which the Earth may be subjected, microbes survive and prosper. The versatility of their lifestyles ensures their continued survival under the most extreme conditions that would annihilate more "evolved" lifeforms. The final chapter suggests that perhaps microbes may even survive the Earth itself – indeed, it is conceivable that Mars or Europa may be home to microbes. Even when the Earth is swallowed up, some 5 billion operas hence, as the Sun swells into a red giant, microbes may survive, encapsulated within pieces of rock ejected into space from the impacts that have occurred through geological history. Perhaps these rocks may be slung out of the solar system altogether, centually to impact onto the surfaces of other planets around other stars to colonise a new home. If so, then microbes do truly represent life as an inextinguishable cosmic phenomenon.

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I thoroughly enjoyed this book, and the author has an engaging style, uncluttered with jargon, lending it to a wide general readership. From a more scientific viewpoint, it was refreshing to see biology treated within a cosmological context – a readily accessible introduction to the science of astrobiology which brings alive the world of the microbe in its proper context, the cosmos as a whole.

Alex Ellery

Kingston University, London, UK

Alone?: A Discovery Sourcebook for Astrobiology By students from the International Space University (ISU) Summer Session Programme, Pomona, California, 2002

International Space University. Strasbourg (2002)
225 pages · Free, postage is E15 or \$15 in Europe, E21 or \$20 elsewhere (see http://www.isunet.edu/library/student_reports.htm)
10.1017/S1473559040321637

10.1017/81473550403221637
This book, designed by one of two International Space University (1SU) project teams for the 2002 summer school programme, tackles the broad topic of astrobiology with a particular focus on space mission issues. Before reviewing the content of the book, however, it is worth mentioning the book's context and authorship, as it would appear that this has had significant influence on its content. The ISU summer school is a 10-week structured postgraduate school in space studies (with an emphasis on space science and engineering) for young scientists from across the globe. The structured programme is

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