

Protecting the Planet 保护地球母亲

KATE BOEHM JEROME (美) 著

外语教学与研究出版社

FOREIGN LANGUAGE TEACHING AND RESEARCH PRESS

(京)新登字 155 号

京权图字: 01-2003-3241

图书在版编目(CIP)数据

生命科学 保护地球母亲/(美)杰罗姆(Jerome, K. B.)著;鲜瑜注.—北京:外语教学与研究出版社,2003.9

(国家地理科学探索丛书·自然科学系列)

ISBN 7 - 5600 - 3802 - 6

I. 生… II. ①杰… ②鲜… III. 英语—语言读物,生命科学 IV. H319.4:Q

中国版本图书馆 CIP 数据核字(2003)第 099110 号

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国家地理科学探索丛书(英文注释版)由美国北极星传媒有限公司策划并授权出版。

生命科学

保护地球母亲

KATE BOEHM JEROME (美) 著

鲜 瑜注

* * * * **责任编辑**: 何 卓

出版发行: 外语教学与研究出版社

杜 址: 北京市西三环北路 19 号 (100089)

网 址: http://www.fltrp.com

印 刷:北京瑞宝画中画印刷有限公司

开 本: 740×975 1/16

印 张:2

版 次: 2003年12月第1版 2003年12月第1次印刷

书 号: ISBN 7-5600-3802-6/H·1914

定 价: 5.90元

* ×

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致读者

大口 果你希望读到地道的英语,在享受英语阅读乐趣的同时又能增长知识、开拓视野,这套由外语教学与研究出版社与美国国家地理学会合作出版的"国家地理科学探索丛书"正是你的选择。

"国家地理科学探索丛书"分为9个系列,内容涉及自然科学和社会研究,秉承《国家地理》杂志图文并茂的特色,书中配有大量精彩的图片,文字通俗易懂、深入浅出,将科学性和趣味性完美结合,称得上是一套精致的小百科。

这套丛书以英文注释形式出版,注释由国内重点中学教学经验丰富的英语教师完成。特别值得推荐的是本套丛书在提高青少年读者英语阅读能力的同时,还注重培养他们的科学探索精神、动手能力、逻辑思维能力和沟通能力。

本丛书既适合学生自学,又可用于课堂教学。丛书各个系列均配有一本教师用书,内容包括背景知识介绍、技能训练提示、评估测试、多项选择题及答案等详尽的教学指导,是对课堂教学的极好补充。

本套丛书是适合中学生及英语爱好者的知识读物。



国 家 地 理 科学探索丛书

LIFESCIENCE

生命科学

Protecting the Planet

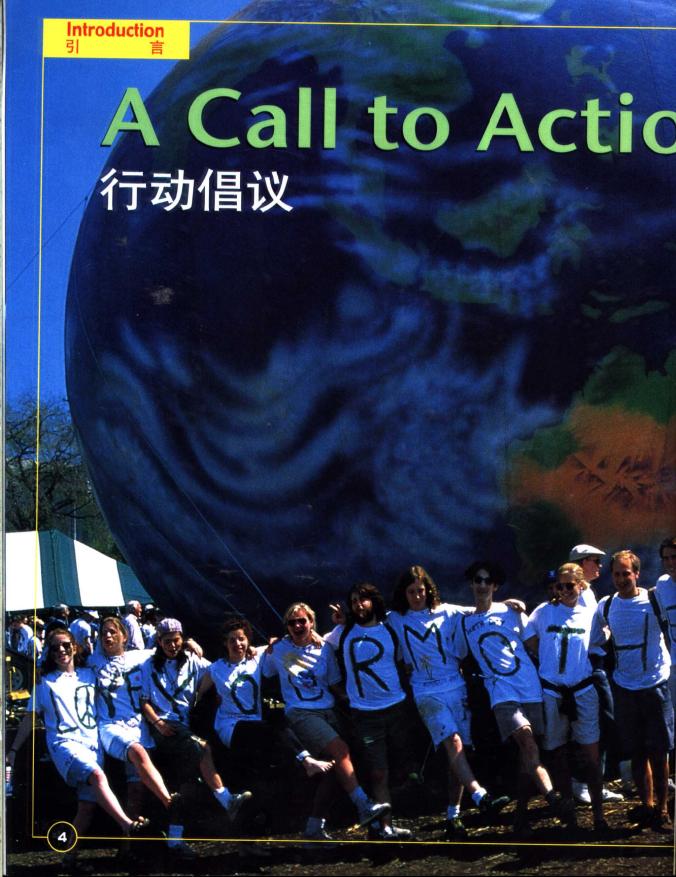


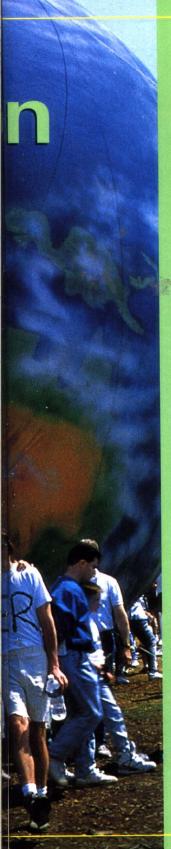
外语教学与研究出版社 FOREIGN LANGUAGE TEACHING AND RESEARCH PRESS

北京 BEIJING

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On April 22, 1970, more than 20 million Americans took part in the largest organized demonstration in history. What could draw so many people to action? Were they protesting the Vietnam War ... or staging a rally to end world hunger? No. They were demonstrating for a healthy environment.

rganizers were stunned⁵ at the number of people who participated⁶ in that first Earth Day. Since 1970 Earth Day has become an annual⁷ worldwide⁸ event. In 2001 millions of people in 184 countries took part in activities to raise awareness⁹ about pollution and other problems affecting the environment.



The success of Earth Day prompted¹⁰ the creation of the Environmental Protection Agency¹¹ (EPA). Soon after, several important environmental protection laws were passed in the United States, including the Clean Air¹², Clean Water¹³, and Endangered Species Acts¹⁴.

Today most people understand that we need to protect this planet that we call home. This is a book about becoming better caretakers¹⁵ of Earth. We'll look at the different environments on Earth, how humans affect the resources in these environments, and how technology might shape the future. Caring for our planet is a big job—and we all need to help out.

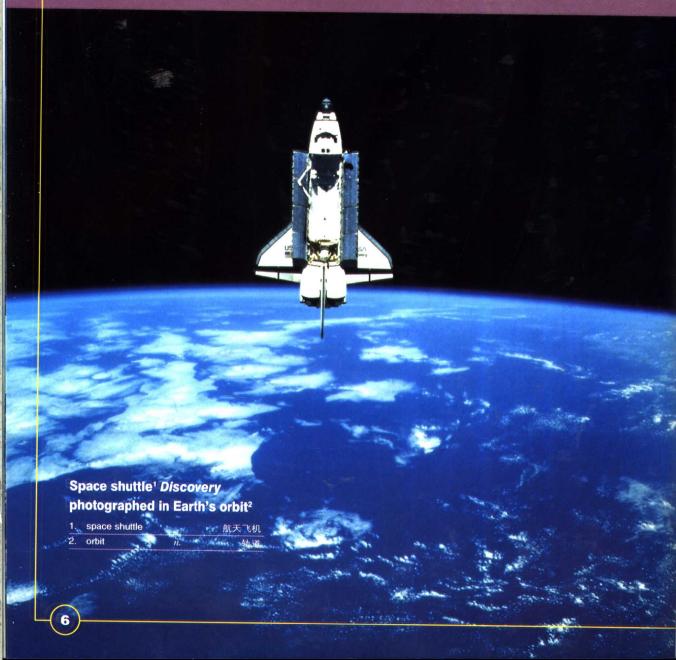
1.	demonstration	n.	示威
2.	stage	ν.	举行
3.	rally	n.	集会
4.	environment	11.	环境
5.	stun	ν.	使吃惊
6.	participate	ν.	参与:参加
7.	annual	adj.	一年一次的: 每年的
8.	worldwide	adj.	世界范围的

9.	awareness	n.		意识
10.	prompt	ν.		促使
11.	Environmental	Protection Agency	/ 美国	环保署
12.	Clean Air (Act)	《清洁》	大气法》
13.	Clean Water (Act)	《净》	水法案》
14.	Endangered S	species Act	《濒危	物种法》
15.	caretaker	11. 管	理者:	看管者
16.	spell out		清楚	5地写明

■ Young people—wearing T-shirts that spell out¹⁶ "Love your mother"—pose in front of a model of Mother Earth.

Spaceship Earth

从宇宙飞船看地球



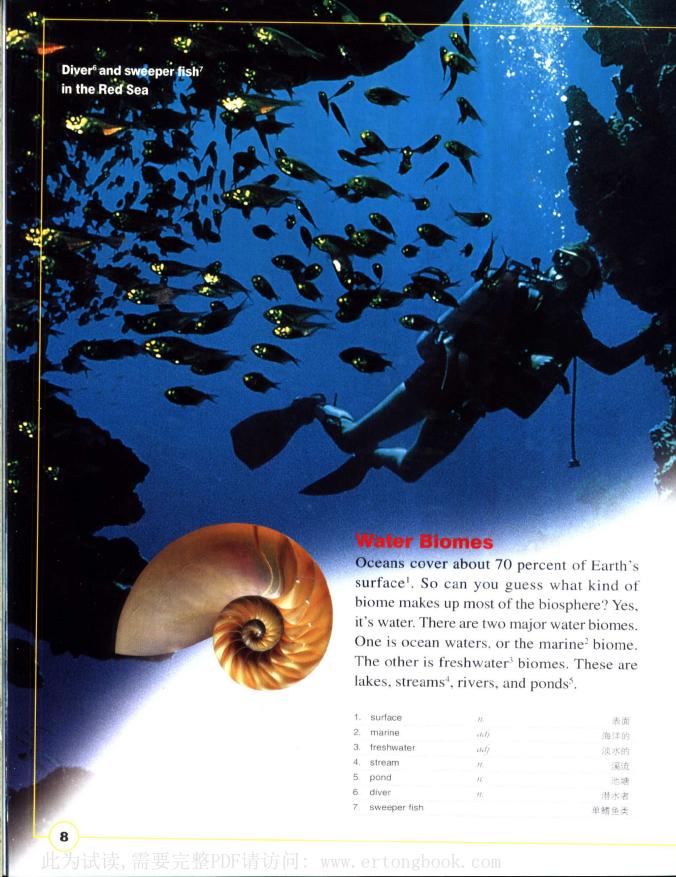
All systems go. The astronauts¹ blast² into space. Ground control broadcasts instructions into their headsets³. Check this. Report on that. When the astronauts finally get a chance to look out the window of their spacecraft⁴, they gasp⁵.

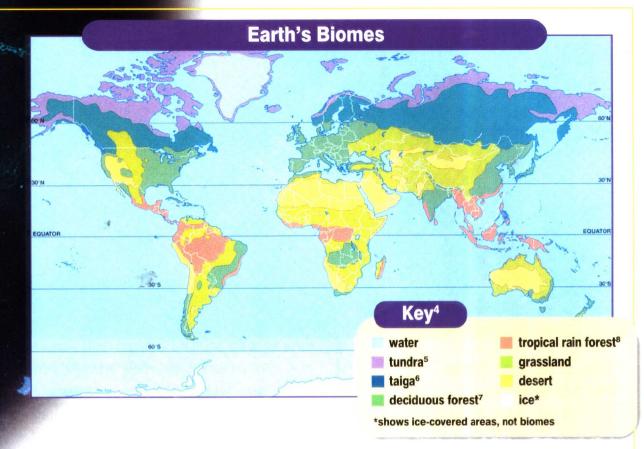
t's an awe-inspiring⁶ view—Earth float ing as a lone planet. All of Earth's living things, including humans, exist in a region of Earth called the biosphere⁷. This region extends from the deepest point in the ocean to about 8 kilometers (5 miles) into the atmosphere. The biosphere includes all the land, water, and air in which plants and animals live.

Just by looking around, you can see the many different kinds of environments in Earth's biosphere. Environments are made up of living things—plants and animals. Environments are also made up of nonliving things, such as water and air. All the living and nonliving things interacting in an area are called an ecosystem 10. A large group of similar ecosystems makes up a biome.

To be a good caretaker of our planet, you have to know what needs protecting. So let's explore¹² Earth's biomes.

1.	astronaut	n.	宇航员
2.	blast	v.	起飞,升空
3.	headset	12.	戴在头上的耳机
4.	spacecraft	11.	宇宙飞船
5.	gasp	ν.	喘气:倒抽气
6.	awe-inspiring	adj.	令人惊叹的
7.	biosphere	n.	生物圏
8.	be made up of		由构成
9.	interact	ν.	互相作用: 互相影响
10.	ecosystem	11.	生态系统
11.	biome	n.	生物群落
12.	explore	ν.	探究





When astronauts look out the window of their spacecraft, they mostly see the marine biome. It is the largest and most widespread biome on Earth. Organisms¹ that live in a marine biome are diverse², or different from one another. If you think about the oceans, you'll begin to see why. Shallow waters along the coast are warmed by the sun. These waters support a variety³ of plant and animal life.

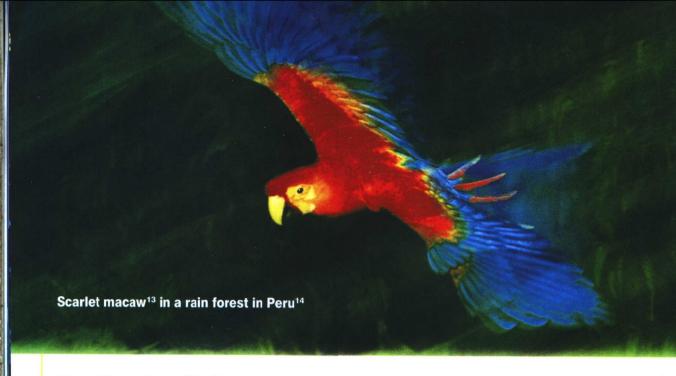
1.	organism	11.	生物
2.	diverse	adj.	不同的. 多样的
3.	variety	11.	多样化
4.	key	11.	图例
5.	tundra	11.	苔原
6.	taiga	11.	泰加林(即北方针叶林)
7.	deciduous forest		落叶林
8.	tropical rain forest		热带雨林

Deep ocean waters get little or no light. Temperatures can be very cold. Different types of organisms live at different depths of the ocean.

Land Biomes

The biomes we know best are the ones where we live—the land biomes. There are six major land biomes. Each has its own kind of climate, soil, plants, and animals. As you can see from the map, these six land biomes are found all over the world.





The Tropical Rain Forest Biome

Tropical rain forest biomes lie close to the Equator¹. They have a hot and humid² climate. Rainfall is frequent³ and heavy. Tropical rain forest biomes have about as many species of plants and animals as all the other land biomes combined.

The high trees in a rain forest biome form a dense⁴, umbrella-like canopy⁵. This canopy can be as high as 45 meters (148 feet) above the ground. It is so thick that little sunlight can reach the forest floor. In a rain forest biome many plants and animals live high up in the trees.

The Desert Biome

What makes a desert? The simple answer is very little rainfall. Organisms that live in a desert often have traits⁶ that help them conserve⁷, or use less, water.

Most deserts are hot, partly sandy regions with few plants and animals. Earth's largest desert biome is the Sahara⁸. It is on the continent of Africa. But did you know that not all deserts are hot? Interior⁹ lands of Antarctica (land surrounding¹⁰ the South Pole¹¹) receive as little precipitation¹² as the Sahara. These polar deserts are extremely cold and covered in snow and ice.

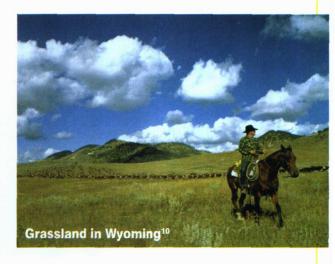
1.	Equator	71.	· 赤道
2.	humid	adj.	潮湿的
3.	frequent	adj.	时常发生的: 频繁的
4.	dense	adj.	浓密的
5.	canopy	11.	树冠层
6.	trait	PL.	特性
7.	conserve	17.	保存
8.	Sahara		撒哈拉沙漠
9.	interior	adj.	内陆的
10.	surround	ν.	围绕
11.	South Pole		南极
12.	precipitation	11.	降水量
13.	scarlet macaw		绯红金刚鹦鹉
14.	Peru		秘鲁

The Grassland¹ Biome

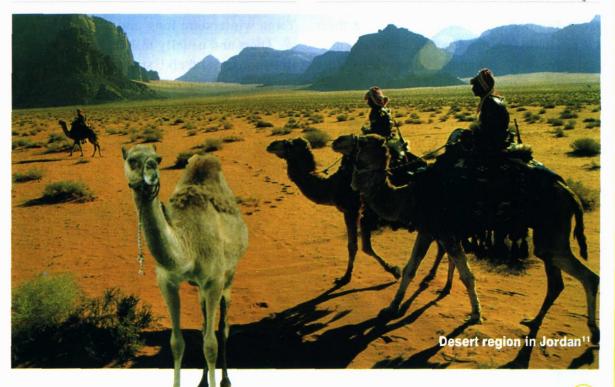
There are two types of grassland biomes. The temperate² grassland usually has hot summers and cold, windy winters. The savanna³ grassland is tropical. It is usually warm all year round⁴. Grasslands have wet and dry seasons rather than a steady flow of rain all year. They often have droughts⁵—long periods of time when little rain falls.

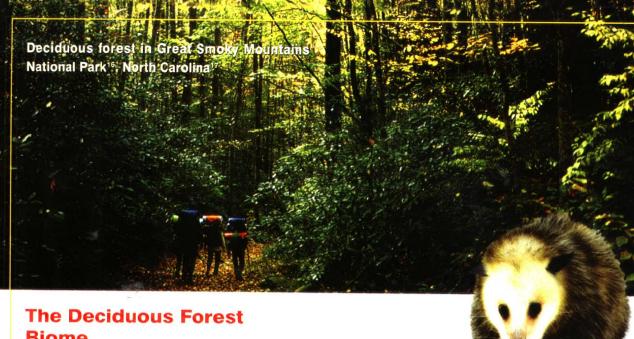
Along with grasses, small bushes and shrubs provide food to countless⁶ grazing animals⁷ in a grassland biome. You might wonder why many trees don't grow in a grassland biome. Long dry spells⁸, grazing animals, and occasional⁹ fires make it hard for trees to grow and forests to form.

1.	grassland	12.	草原
2.	temperate	adj.	温带的
3.	savanna	n.	热带稀树草原



4.	all year round		一年到头,终年
5.	drought	11.	干旱;旱灾
6.	countless	adj.	无数的;数不尽的
7.	grazing animal		食草动物
8.	spell	n.	(特定天气的)一段持续时间
9.	occasional	adj.	偶尔的; 间或发生的
10.	Wyoming		怀俄明州
11.	Jordan		约旦





Biome

The oak¹, maple², and hickory³ leaves in a deciduous forest turn blazing4 colors in the fall. When the leaves fall from the trees, they provide habitats⁵ for insects⁶ and spiders⁷ on the forest floor. A wide variety of animals from skunks8 to snakes—also make their homes in this biome. Deciduous forests usually have warm summers. Winters are colder with frequent precipitation.

Deciduous forest biomes once covered almost all of the eastern United States and Western Europe. But many forests have been cleared away9 to make room for farms, cities, and towns

The Taiga Biome

Chances are good that the paper in this book comes from trees grown in a taiga biome. Most paper produced in the United States and Canada is made from conifers¹⁰. In a taiga forest, most of the trees are conifers like spruce¹¹ and pines. Unlike deciduous trees,

most conifers are evergreen¹². This means they keep needlelike green leaves all year long.

Taiga winters are long and cold. Summers are short and usually mild13. Large animals like moose¹⁴ and elk¹⁵ share this biome with smaller ones like rabbits and owls.

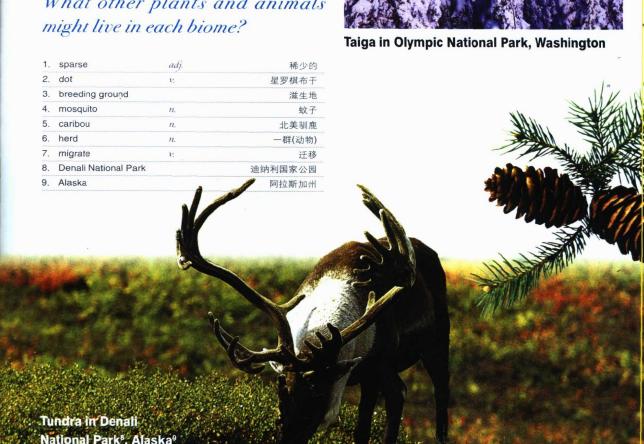
1.	oak	11.	橡树
2.	maple	\mathcal{U}_{r}	枫树
3.	hickory	H.	山核桃树
4.	blazing	adj.	眩目的
5.	habitat	n.	(动物的)栖息地
6.	insect	11.	昆虫
7.	spider	17.	蜘蛛
8.	skunk	П.	臭鼬
9.	clear away		消除。消失
10.	conifer	n.	针叶树(如松、柏等)
11.	spruce	11.	云杉
12.	evergreen	adj.	常绿的
13.	mild	adj.	温暖宜人的
14.	moose	11.	驼鹿
15.	elk	11.	麋鹿
16.	Great Smoky Moun	tains National Park	大雾山国家公园
17.	North Carolina		北卡罗来纳州

The Tundra Biome

The tundra is cold. In fact, much of the soil in the tundra stays frozen. Winters are long and cold. Summers are short and mild. Precipitation is sparse1 in the tundra of the far north. In summer shallow ponds dot² the landscape. They serve as breeding³ grounds for millions of insects, such as mosquitoes4.

Caribou⁵ feed on the short grasses and low shrubs that grow in the thin layer of unfrozen soil in the tundra. Large herds⁶ migrate⁷ over long distances to find food and to keep ahead of very cold temperatures.

What other plants and animals





From Trash to Treasure

变废为宝

A simple way to protect Planet Earth is to reduce the amount of trash1 we throw away. Just what's in our trash? There's paper, plastics, glass, metals, and other kinds of waste. How much of that trash can be reused²? How much can be turned into something useful?

Kids around the world have found some clever ways to reuse trash. They've turned their trash into toys.

1.	trash	11.	废物。垃圾
2.	reuse	ν.	再使用
3.	pesticide	n.	杀虫剂
4.	Senegal		塞内加尔
5.	wheeled coconut-shell boat		由椰壳制成带轮子的小船
6.	Indonesia		印度尼西亚

