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Surface and Deep

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~~colonial~~

~~planktonic~~

~~pelagic~~

~~tunicates~~

~~swimming~~

~~together~~

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~~Interval Top 10  
Ocean Phenomena  
Transparent  
Mystery Fish~~

---

A Lancelet  
(Branchiostoma)  
swims with the  
fish and crabs  
at night

---

Sea Squirts  
~~Invisible  
Killers Hidden  
In Nature~~  
Urochordata



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\u0026amp;nbsp;

Cephalochordata  
How We Can Keep  
Plastics Out of  
Our Ocean |

National

Geographic The

~~giant colony of  
tunicates~~ La

~~colonia gigante  
di tunicati~~ A

~~Plastic Wave~~ A  
~~documentary film  
on plastic~~

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*Endless Plastic  
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Biology(biozoolo  
gy)Chapter 2  
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*Learn About  
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with Chad  
Clayton from  
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Future of  
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Contributions of  
Osamu Shimomura  
The Biology Of  
Pelagic  
Tunicates~~

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The Biology of  
Pelagic  
Tunicates  
is, to  
my knowledge,  
the only book  
dealing with the  
biology and  
ecology of these  
amazing  
organisms. This  
fact per se  
would make the  
book extremely  
valuable and

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attractive for  
any person  
interested in  
plankton  
ecology. Yet,  
its clarity, the  
amplitude of the  
subjects dealt,  
and the  
profundity of  
the knowledge  
presented  
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in a milestone

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Bone.  
Description.

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Tunicates play an important role in the sea as filter feeding animals of the macroplankton in geochemical cycling. This is the first book in fifty years to provide a full account of



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---

The Biology of  
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...

Updated  
classification  
and  
identification  
keys to every

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pelagic tunicate  
now known are  
included. The

Biology of  
Pelagic

Tunicates will  
be useful to all  
plankton

workers, and may  
perhaps

stimulate

ecologists,

physiologists,

and geneticists

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to begin work on  
a somewhat  
neglected group  
of animals that  
offer some  
unusual  
advantages for  
different kinds  
of study.

---

The Biology of  
Pelagic  
Tunicates (1998,  
*Page 19/92*)

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(Hardcover) for

## Tunicates

The Biology of

Pelagic

Tunicates

presents, thus,

a clear summary

of the present

knowledge on

these important,

although quite

unknown, marine

organisms,

dealing, among

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other subjects,  
with their  
anatomy,  
taxonomy,  
physiology and  
ecological  
relevance.

---

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Tunicatespoints.  
Comprehending as  
capably as deal  
even more than  
further will  
have enough  
money each  
success.

bordering to,  
the message as  
competently as

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keeness of this  
the biology of  
pelagic

tunicates can be  
taken as well as  
picked to act.

Just like with  
library Page 2/8

---

The Biology Of  
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Tunicates - down  
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pelagic

Herbivorous,  
pelagic

tunicates are

known to be

efficient filter

feeders that are

successfully

adapted to

oceanic

environments

with low

particle

concentrations



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(Madin and  
Deibel, 1998).  
Southern Ocean  
tunicate fauna  
is not diverse  
and there are  
only two valid  
species of  
Antarctic  
pelagic  
tunicates, *Salpa  
thompsoni* and  
*Ihlea  
racovitzai*.

# Get Free The Biology Of Pelagic Tunicates

---

Biology and life  
cycles of  
pelagic  
tunicates in the  
...

Pelagic  
tunicates are of  
great interest  
to marine  
biologists for  
two primary  
reasons. First,

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They are good indicators of different types of water masses and act as early warning systems for changing water chemistry. Second, they play an important role in carbon recycling and sequestration.

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---

BOOK 13: THE

PELAGIC

TUNICATES

the south Indian

Ocean. Marine

Ecology Progress

Series 330:

1-11. Pyrosomas

are colonial

tunicates

capable of

forming dense

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aggregations.

Their trophic function in the ocean, as well as their ecology and physiology in general, are extremely poorly

---

Tunicata

(tunicates, sea squirts, doliolids,

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Polypoid  
(salps)

A tunicate is a  
Tunicates  
marine

invertebrate  
animal, a member  
of the subphylum  
Tunicata

/tjuːnɪˈkeɪt/.  
/tjuːnɪˈkeɪt/.

It is part of  
the Chordata, a  
phylum which  
includes all  
animals with  
dorsal nerve

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Polychaetes and  
Tunicates  
cords and  
notochords. The  
subphylum was at  
one time called  
Urochordata, and  
the term  
urochordates is  
still sometimes  
used for these  
animals. They  
are the only  
chordates that  
have lost their  
myomeric

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segmentation,  
with the  
possible  
exception of the  
'seriation of  
the gill slits'.  
Some tunicates  
live as solitary  
...

---

Tunicate -

Wikipedia

In the Southern

*Page 32/92*



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Ocean, the most  
common and  
numerous species  
of pelagic  
tunicates is  
Salpa thompsoni  
(Foxton 1966).

It is  
distributed from  
the Subtropical  
Convergence  
southward to the  
coastal  
Antarctic Sea's

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but is most abundant in the region of the Antarctic Polar Frontal Zone (Foxton, 1966, Pakhomov et al., 2002, Loeb and Santora, 2012).

---

Trans-Atlantic  
variability in  
ecology of the

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pelagic ...

ABSTRACT: Lipid  
biochemistry of  
pelagic  
tunicates is  
poorly known,  
despite the fact  
that the larvae  
of several  
flatfish species  
depend  
exclusively on  
oikopleurid  
appendicularians

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at time of first  
feeding.

---

Lipid and lipid  
class content of  
the pelagic  
tunicate ...

In The biology  
of pelagic  
tunicates (ed.  
Q. Bone), pp.  
105-124. Oxford:  
Oxford

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University

Press. Google  
Scholar. Flood,  
P.F., Deibel,  
D., & Morris,  
C.C., 1990.

Visualisation of  
the transparent  
gelatinous house  
of the pelagic  
tunicate

Oikopleura

vanhoeffeni

using Sepia ink.

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---

Tunicate feeding  
filters |

Journal of the  
Marine ...

This review is a  
tribute to the  
remarkable  
contributions of  
Thomas Huxley to  
the biology of  
tunicates, the  
likely sister

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group of  
vertebrates. In  
1851, the great  
biologist and  
philosopher  
published two  
landmark papers  
on pelagic  
tunicates in the  
Philosophical  
Transactions of  
the Royal  
Society. They  
were dedicated

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to the  
description of  
the adult  
anatomy and life  
cycle of  
thaliaceans and  
appendicularians  
, the pelagic  
relatives of  
ascidians.

---

Tunicates:  
exploring the



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sea shores and  
roaming the open  
...  
Tunicates

The biology of  
pelagic

Tunicates. pp.  
273-294, more;  
Fenaux, R.

(1998). The  
classification  
of

Appendicularia,  
in: Bone, Q.

(Ed.) The

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biology of  
pelagic  
Tunicates. pp.  
295-306, more;  
All data in the  
Integrated  
Marine  
Information  
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In 1851, the  
great biologist  
and philosopher  
published two  
landmark papers  
on pelagic  
tunicates in the  
Philosophical  
Transactions of  
the Royal  
Society. They  
were dedicated

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to the  
description of  
the adult  
anatomy and life  
cycle of  
thaliaceans and  
appendicularians  
, the pelagic  
relatives of  
ascidians.

---

Tunicates:  
exploring the

*Page 44/92*

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sea shores and  
roaming the open  
...  
Tunicates

Salps are  
closely related  
to the pelagic  
tunicate groups  
Doliolida and  
Pyrosoma, as  
well as to other  
bottom-living  
(benthic)  
tunicates.

Although salps

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appear similar to jellyfish because of their simple body form and planktonic behavior, they are chordates: animals with dorsal nerve cords, related to vertebrates, animals with backbones.

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---

Salp - Wikipedia

The aggregate generation has a thick tunic with etchinated surface and bifid posterior projection. Body muscle bands 1-4 and 5-6 are dorsally fused. The solitary generation also

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possesses a  
thick test  
serrated

longitudinally.

Body muscle  
bands 1-3 are  
dorsally fused  
and 8-9 converge  
but do not meet.

This species can  
often be  
confused with  
Salpa  
fusiformis.



# Get Free The Biology Of Pelagic Tunicates

---

Salpa aspera |  
Zooplankton  
Guide

The aggregate  
zooid possesses  
long fusiform  
anterior and  
posterior  
projections and  
a smooth thick  
tunic. The  
solitary

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generation also has a smooth thick tunic, and body muscle bands 1-3 meet dorsally, and 8-9 are strongly fused. This species can often be confused with *Salpa aspera*. *S. fusiformis* possesses less

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muscle fibers  
within the body  
muscle bands and  
a smooth tunic.

Pelagic  
tunicates play  
an important  
role in the sea  
as filter  
feeding animals  
of the

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macroplankton in  
geochemical  
cycling. This  
text provides a  
full account of  
all the Tunicate  
groups, and  
should be of use  
to plankton  
workers as it  
contains keys to  
aid  
identification.

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Ascidians are  
the invertebrate  
group that gave  
rise to

vertebrates,  
thus the biology  
of ascidians  
provides an  
essential key to  
understanding  
both

invertebrates  
and vertebrates.  
This book is the

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first to cover  
all areas of  
ascidian  
biology,  
including  
development,  
evolution,  
biologically  
active  
substances,  
heavy metal  
accumulation,  
asexual  
reproduction,

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host-defense  
mechanisms,  
allorecognition  
mechanisms,  
comparative  
immunology,  
neuroscience,  
taxonomy,  
ecology, genome  
science, and  
food science.

The 69 articles  
that make up the  
collection were

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contributed by  
leading  
ascidiologists  
from all over  
the world who  
participated in  
the First  
International  
Symposium on the  
Biology of  
Ascidians, held  
in June 2000 in  
Sapporo, Japan.  
For scientists



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and students  
alike, the book  
is an invaluable  
source of  
information from  
the latest, most  
comprehensive  
studies of  
ascidian  
biology.

Volume 2 of this  
*Page 57/92*

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Polagic  
Tunicates

collection of  
papers consists  
of papers  
concerning the  
biological  
survey samples  
collected by the  
United States  
Bureau of  
Fisheries  
steamer  
"Albatross" in  
the Philippine  
Islands region

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Pelagic Tunicates between 1907 and 1910. There are 5 separate papers mainly concentrated on invertebrates such as Salps, pelagic tunicates, sponges, and shipworms, by various authors that are listed as "Parts".

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Evolutionary developmental biology or evo-devo is a field of biological research that compares the underlying mechanisms of developmental processes in different organisms to

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infer the  
ancestral  
condition of  
these processes  
and elucidate  
how they have  
evolved. It  
addresses  
questions about  
the  
developmental  
bases of  
evolutionary  
changes and

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evolution of  
developmental  
processes. The  
book's content  
is divided into  
three parts, the  
first of which  
discusses the  
theoretical  
background of  
evo-devo. The  
second part  
highlights new  
and emerging

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model organisms  
in the evo-devo  
field, while the  
third and last  
part explores  
the evo-devo  
approach in a  
broad  
comparative  
context. To the  
best of our  
knowledge, no  
other book  
combines these

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three evo-devo  
aspects:  
theoretical  
considerations,  
a comprehensive  
list of emerging  
model species,  
and comparative  
analyses of  
developmental  
processes. Given  
its scope, the  
book will offer  
readers a new



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perspective on  
the natural  
diversity of  
processes at  
work in cells  
and during the  
development of  
various animal  
groups, and  
expand the  
horizons of  
seasoned and  
young  
researchers

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(Cont.) Finally,  
a low Reynolds  
number  
mathematical  
model using  
accurately  
measured  
parameters and  
realistic  
oceanic particle  
size  
concentrations

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showed that  
submicron  
particles are  
encountered at  
higher rates  
than larger  
particles.  
Results from  
feeding  
experiments with  
0.5, 1 and 3  
[mu]m po-  
lystyrene  
microspheres

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corroborated  
model  
predictions.

Though 1 to 10  
µm-sized  
particles (e.g.  
flagellates,  
small diatoms)  
are predicted to  
provide four  
times as much  
carbon as 0.1 to  
1 µm- sized  
particles (e.g.

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bacteria, Prochlorococcus),  
particles

smaller than the  
mesh size (1.4  
[mu]m) can still  
fully satisfy  
salp energetic  
needs.

A thorough  
understanding of  
planktonic  
organisms is the

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first step  
towards a real  
appreciation of  
the diversity,  
biology, and  
ecological  
importance of  
marine life. A  
detailed  
knowledge of  
their  
distribution and  
community  
composition is

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Particularly important since these organisms are often very delicate and sensitive to change, and can be used as early indicators of environmental change. Natural and man-induced modification of the environment

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can affect both  
the distribution  
and composition  
of plankton,  
with important  
ecological and  
economic  
impacts. Marine  
Plankton  
provides a  
practical guide  
to plankton  
biology with a  
large geographic



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coverage

spanning the  
North Sea to the  
north-eastern  
Atlantic coast  
of the USA and  
Canada. The book  
is divided into  
three sections:  
an overview of  
plankton  
ecology, an  
assessment of  
methodology in

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plankton  
research  
covering  
sampling,  
preservation,  
and counting of  
samples, and a  
taxonomic guide  
richly  
illustrated with  
detailed line  
drawings to aid  
identification.  
This is an

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essential  
reference text  
suitable for  
senior  
undergraduate  
and graduate  
students taking  
courses in  
marine ecology  
(particularly  
useful for  
fieldwork) as  
well as for  
professional

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marine  
biologists. It  
will also be of  
relevance and  
use to  
environmental  
scientists,  
conservation  
biologists,  
marine resource  
managers,  
environmental  
consultants, and  
other

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specialised  
practitioners.

The iconic and  
beautiful Great  
Barrier Reef  
Marine Park is  
home to one of  
the most diverse  
ecosystems in  
the world. With  
contributions  
from  
international

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experts, this  
timely and fully  
updated second  
edition of The  
Great Barrier  
Reef describes  
the animals,  
plants and other  
organisms of the  
reef, as well as  
the biological,  
chemical and  
physical  
processes that

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influence them.

It contains new  
chapters on

shelf slopes and  
fisheries and  
addresses

pressing issues  
such as climate

change, ocean

acidification,

coral bleaching

and disease, and

invasive

species. The

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Great Barrier  
Reef is a must-  
read for the  
interested reef  
tourist,  
student,  
researcher and  
environmental  
manager. While  
it has an  
Australian  
focus, it can  
equally be used  
as a reference



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text for most  
Indo-Pacific  
coral reefs.

Zooplankton are  
critical to the  
vitality of  
estuaries and  
coastal waters.  
In this revised  
edition of  
Johnson and  
Allen's instant  
classic, readers

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are taken on a  
tour of the  
miniature  
universe of  
zooplankton,  
including early  
developmental  
stages of  
familiar and  
diverse shrimps,  
crabs, and  
fishes.

Zooplankton of  
the Atlantic and

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Gulf Coasts  
details the  
behavior,  
morphology, and  
coloration of  
these tiny  
aquatic animals.  
Precise  
descriptions and  
labeled  
illustrations of  
hundreds of the  
most commonly  
encountered

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Species provide  
readers with the  
best source  
available for  
identifying  
zooplankton.  
Inside the  
second edition•  
an updated  
introduction  
that orients  
readers to the  
diversity,  
habitats,

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environmental  
responses,  
collection,  
history, and  
ecological roles  
of zooplankton.  
descriptions of  
life cycles.  
illustrations  
(including 88  
new drawings)  
that identify  
340-plus taxa  
and life stages.

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range, habits,  
and ecology for  
each entry

located directly  
opposite the  
illustration•

appendices with  
information on  
collection and  
observation

techniques and  
citations of  
more than 1,300  
scientific

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articles and  
books

This landmark  
scientific  
reference for  
scientists,  
researchers, and  
students of  
marine biology  
tackles the  
monumental task  
of taking a  
complete

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biodiversity  
inventory of the  
Gulf of Mexico  
with full biotic  
and  
biogeographic  
information.  
Presenting a  
comprehensive  
summary of  
knowledge of  
Gulf biota  
through 2004,  
the book



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includes seventy-seven chapters, which list more than fifteen thousand species in thirty-eight phyla or divisions and were written by 138 authors from seventy-one institutions in fourteen countries. This

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first volume of  
Gulf of Mexico  
Origin, Waters,  
and Biota, a  
multivolumed set  
edited by John  
W. Tunnell Jr.,  
Darryl L.  
Felder, and  
Sylvia A. Earle,  
provides  
information on  
each species'  
habitat,

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biology, and  
geographic  
range, along  
with full  
references and a  
narrative  
introduction to  
the group, which  
opens each  
chapter.

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