



American Meteorological Society

Open Educational Resources

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What is a textbook?





How many of you...

- Are not satisfied with your textbook?
- Don't even use a textbook anymore?
- Aren't satisfied with the content because it is inaccurate or out of date?
- Have felt like you are recreating the wheel?
- Feel like your students are not using the textbook?

UNESCO defines Open Educational Resources (OER) as

1. learning, teaching and research materials
2. in any format and medium that
3. reside in the public domain or are under copyright that have been released under an open license,
4. that permit no-cost access, re-use, re-purpose, adaptation and redistribution by others.

OER Commons defines OER as

1. teaching and learning materials
2. that you may freely use and reuse at no cost, and without needing to ask permission
3. licensed by their authors to permit no-cost access, reuse, adaptation, and redistribution



Retain

You can keep the work forever



Reuse

You can use the work for your own purpose



Revise

You can adapt, modify, or translate the work

The 5 R's of Open Education

WHAT IS AN OPEN EDUCATIONAL RESOURCE (OER)?

"For Free and Without Requesting Permissions"



Remix

You can combine it with another resource to make a new work



Redistribute

You can share the work with others

How many of you have...

- Retained material from previous years/classes?
- Reused a text, questions, or discussions that were not originally intended for that use?
- Revised something you bought to make it work for your students?
- Remixed materials, pulling some questions from one source and some from another?
- Given a copy of something to another colleague?
- **Under copyright law, you can't do that. (well mostly)**

Cost/Benefit

Vary in quality

Less or no additional
resources

Inconsistently updated

Cheaper

Adaptable

Shareable

Updated regularly without a
whole new edition

Often only online

Where to find OER

[OER Commons](#)

[LibreTexts](#)

[OpenStax](#)

[Pressbooks](#)

Many universities

Not an exhaustive, but a good place to start.

☐  Conditional Remix & Share Permitted  CC BY-NC-SA	Oceanography Rating ★★★★★ <i>This wiki is a collaboration between current and former students at UC ...</i> More Subject: Oceanography, Physical Science Material Type: Textbook Provider: LibreTexts Author: Tessa Hill Date Added: 02/02/2022
☐  Unrestricted Use  CC BY	Introduction to Oceanography Rating ★★★★★ <i>Introduction to Oceanography is a textbook appropriate to an introductory-level university course ...</i> More Subject: Oceanography, Physical Science Material Type: Textbook Provider: Roger Williams University Author: Paul Webb Date Added: 06/28/2019

AMS's Textbooks are transitioning to OER

- 3 Books: Ocean Sciences, Meteorology, and Climate
- Supported by AMS's long-standing experience and expertise
- Routinely updated and maintained
- Include lecture slides, quizzes, and test banks

Everything you need to teach an introductory-level course: an open-access textbook and an optional companion student manual for \$99 per student.

Introduction to Ocean Sciences

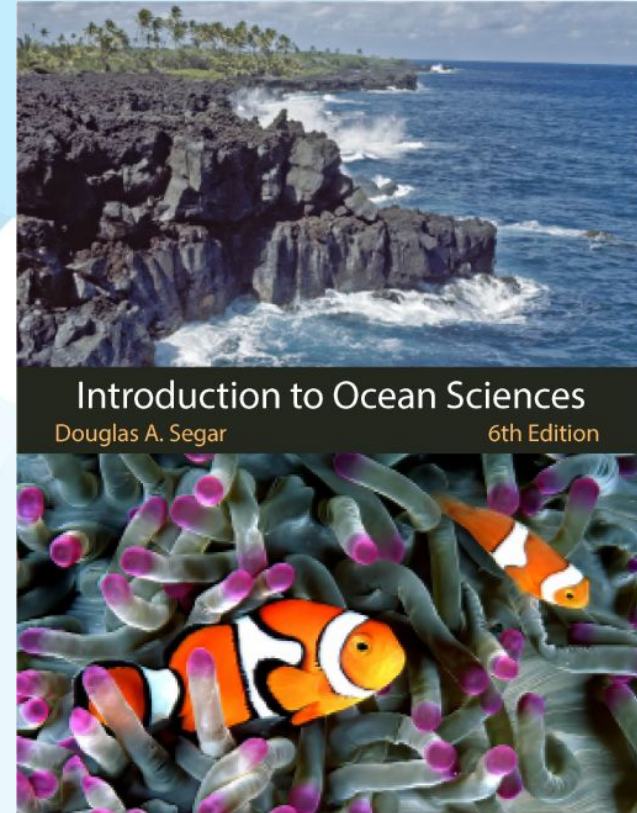
Read it now!

[AMS Website](#) - PDF



Or [at Libretex](#)

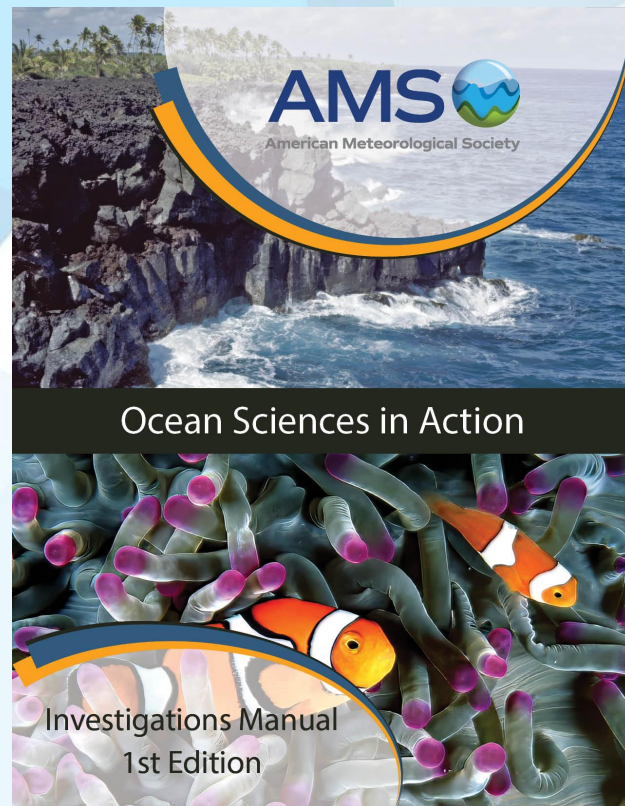
Accessible eReader



Ocean Sciences in Action Manual

- Aligned with the book
- **Free** student manuals for new adopters this school year

[See example investigations](#) and request an Exam Copy



Takeaways

1. Check out some Open Educational Resources
2. Watch for the release of Introduction to Ocean Sciences in the spring
3. The next AMS OER textbook will be Weather Studies!!

Questions?



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