



TROP ICSU Newsletter

August 2018

Climate Across the Curriculum

From [Leaf-out in the Biological Sciences](#) to [Isotopes in Chemistry](#), from [Introductory Calculus in Mathematics](#) to [Food Security in the Social Sciences](#), a range of topics in existing curriculum can be taught using a climate-related example or activity.

We have updated our lesson plans to include additional details and cover more topics across many disciplines. Teachers and educators can now visit the [TROP ICSU website](#) to access and use [more than 20 detailed lesson plans](#) that integrate the teaching of a topic in a specific discipline with a topic in climate science or climate change. The content of each lesson plan is organized into various sections and includes a step-by-step guide for improved ease-of-use and relevance in classrooms across the world.

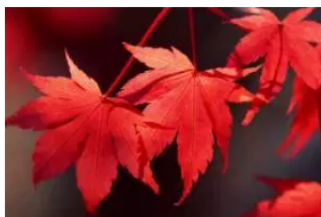
We have also curated [more than 100 teaching tools](#) and have classified them according to various categories, including Discipline and Climate Topic.

A big thank you to our survey respondents for their active participation in the [Educators Survey](#). We look forward to receiving more responses that will help us create better teaching resources for climate change education.

In the near future, the TROP ICSU team will conduct workshops to provide educators with an engaging, hands-on introduction to the teaching resources. Detailed information about these workshops will be shared at a later date.

We hope you enjoy reading the first edition of our newsletter.

Thank you for your interest and support!

<https://tropicsu.org/>


Lesson Plan: Teaching Phenology in Plants (Leaf-out) through Climate-related Examples

As a high school or undergraduate Biological Sciences teacher, you can use this set of computer-based tools to help you

[Read more.](#)



Lesson Plan: Teaching Phenology in Plants (Flowering) through Climate-related Examples

As a high school or undergraduate Biological Sciences teacher, you can use this set of computer-based tools to help you



Lesson Plan: Teaching Human Health and Climate Change

As a high school Biology / Biological Sciences and Environmental Sciences teacher, you can use this set of computer-based tools to

[Read more.](#)

A Lesson Plan for Every Discipline

A Range of Disciplines, a Range of Topics

Teachers and educators can choose a lesson plan from our website to teach a topic in **Science**, **Mathematics and Statistics**, **Social Science**, or **Humanities** with the help of examples, case studies, and exercises related to climate change.

The lesson plans are categorized by Discipline. Visit our [Lesson Plans page](#), select a discipline of your choice, and then choose a lesson plan from the displayed options.

Structure of a Lesson Plan

Each lesson plan on our website consists of

- [An Introduction](#)
- [A Step-by-Step User Guide](#)
- [Questions/Assignments](#)
- [Learning Outcomes](#)
- [Credits](#)

Sample Tools by Discipline.

For more please visit our [Portal](#).



Biological Sciences



Chemistry



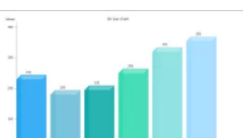
Environmental Science



Geography



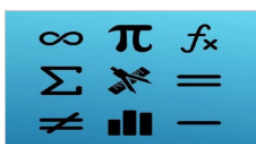
Earth Science



Economics



Humanities



Mathematics

Recommend a Teaching Tool or Resource

Our curated suite of teaching tools that integrate a topic in high school or undergraduate curriculum with climate science is available [here](#).

Browse these tools by [Discipline](#), [Climate Topic](#), [Grade Level](#), or [Tool Type](#).

Would you like to recommend a teaching resource that can be added to the collection on the TROP ICSU website?

We would love to hear about climate-related teaching tools that you have used, developed, or modified.

Send your recommendations to tropicsu@iubs.org.

Survey for Educators

The TROP ICSU Educators Survey is available in 10 languages. We have received responses from countries in Asia, Africa, Europe, North America, South America, and Oceania. Thank you to all our survey respondents for their valuable inputs!



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other teachers/educators in your network. We look forward to receiving a large number of responses from all regions of the world to help us create more effective and useful teaching resources.

<https://tropicsu.org/educators-survey/>

Toolkits for Educators (Estimated time required: 8–10 min)

We are very grateful for your help in completing this questionnaire. We assure you that your responses will be confidential and will be used only for our research purposes in this project. For each question, please select the option that best corresponds to your answer.

1. Which level do you teach? Please mark all that apply.

- ☐ High School/Secondary School (8th–10th grade OR 13–15-year-olds)
- ☐ High School/Secondary School (11th–12th grade OR 16–18-year-olds)
- ☐ Undergraduate (Bachelor's Degree)
- ☐ Graduate (Master's Degree)
- ☐ Other: _____



Review of Teaching Resources

We are very grateful to the [Young Earth System Scientists \(YESS\) community](#) for reviewing the teaching tools for their scientific correctness and appropriateness from the climate science perspective. We are also thankful to other specialists who are providing feedback on the teaching resources from the discipline perspective.

TROP ICSU: Review Form for Teaching Tools



Evaluating the Scientific Correctness and Appropriateness of a Tool for Teaching a Particular Topic

The TROP ICSU team invites other experts to review and evaluate the scientific accuracy and pedagogical effectiveness of a teaching resource for a climate topic or discipline of their expertise. To collaborate with us in the review process, please write to tropicsu@iubs.org.

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The TROP ICSU team will conduct the **first pilot workshop for teachers** at **New Delhi, India**, in **October 2018**. More details in the next edition of this newsletter.



Around the Web: Resources for an Introduction to Climate Change

A Set of Introductory Videos on Scientific Knowledge about Recent Climate Change

[Climate Change: Lines of Evidence](#), from the National Academies of Sciences, Engineering, and Medicine

A Guide to Climate Change, for Teachers

[The Teacher-Friendly Guide to Climate Change](#), published by the Paleontological Research Institution in Ithaca, New York



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