

A Massive Open Online Course on Climate Literacy: What did we learn?



Sara Harris & Sarah Burch



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THE UNIVERSITY OF BRITISH COLUMBIA



UNIVERSITY OF
WATERLOO

About “Massive”:

The Numbers (1st offering)

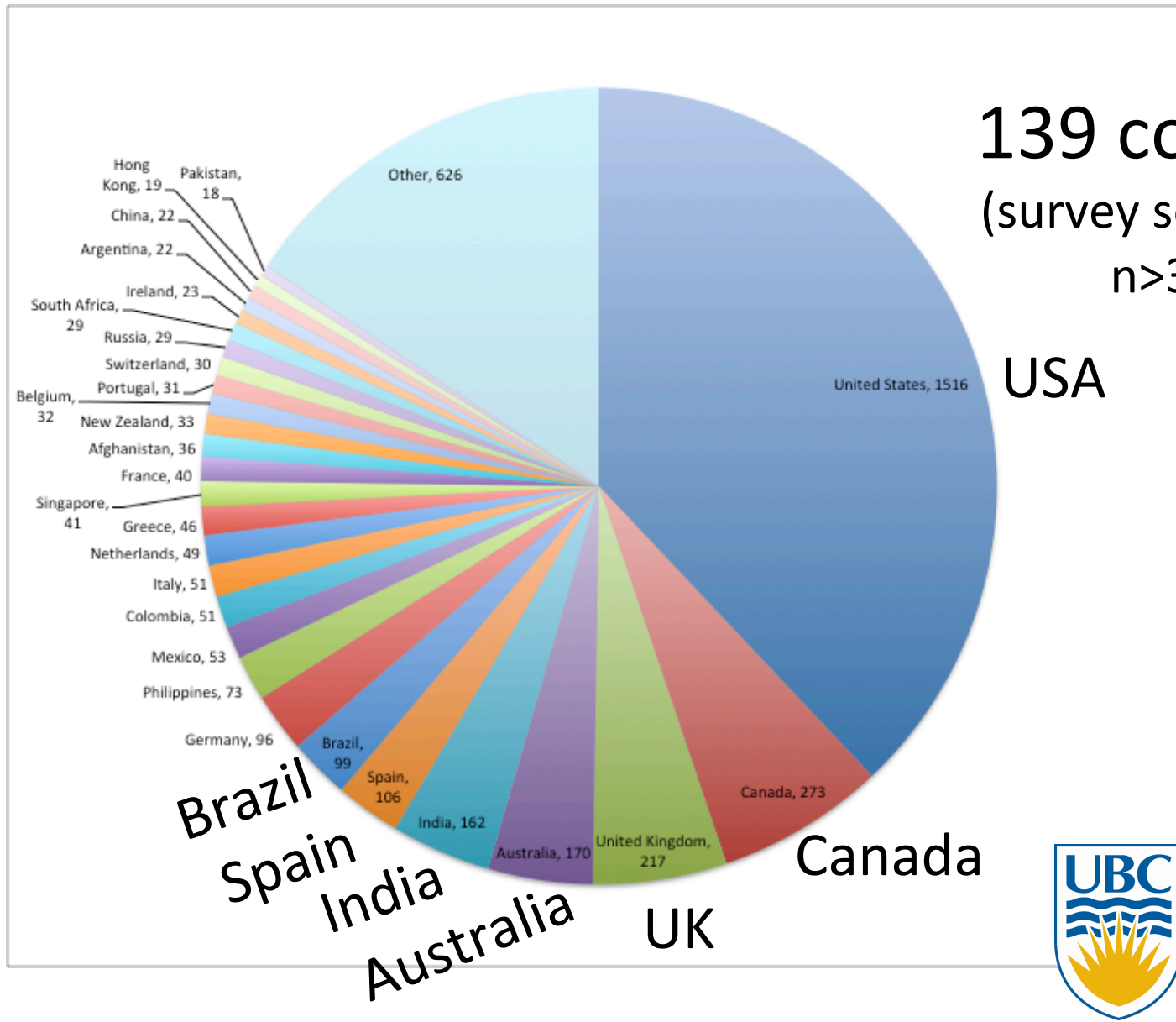
- 24,303 people registered
- 13,569 logged in at least once
- ~8000 were active in the first week
- ~2600 were active in the last few weeks
- ~1000 answered the exit survey
- ~750 earned a certificate (>65% “grade”)

The Numbers (2nd offering)

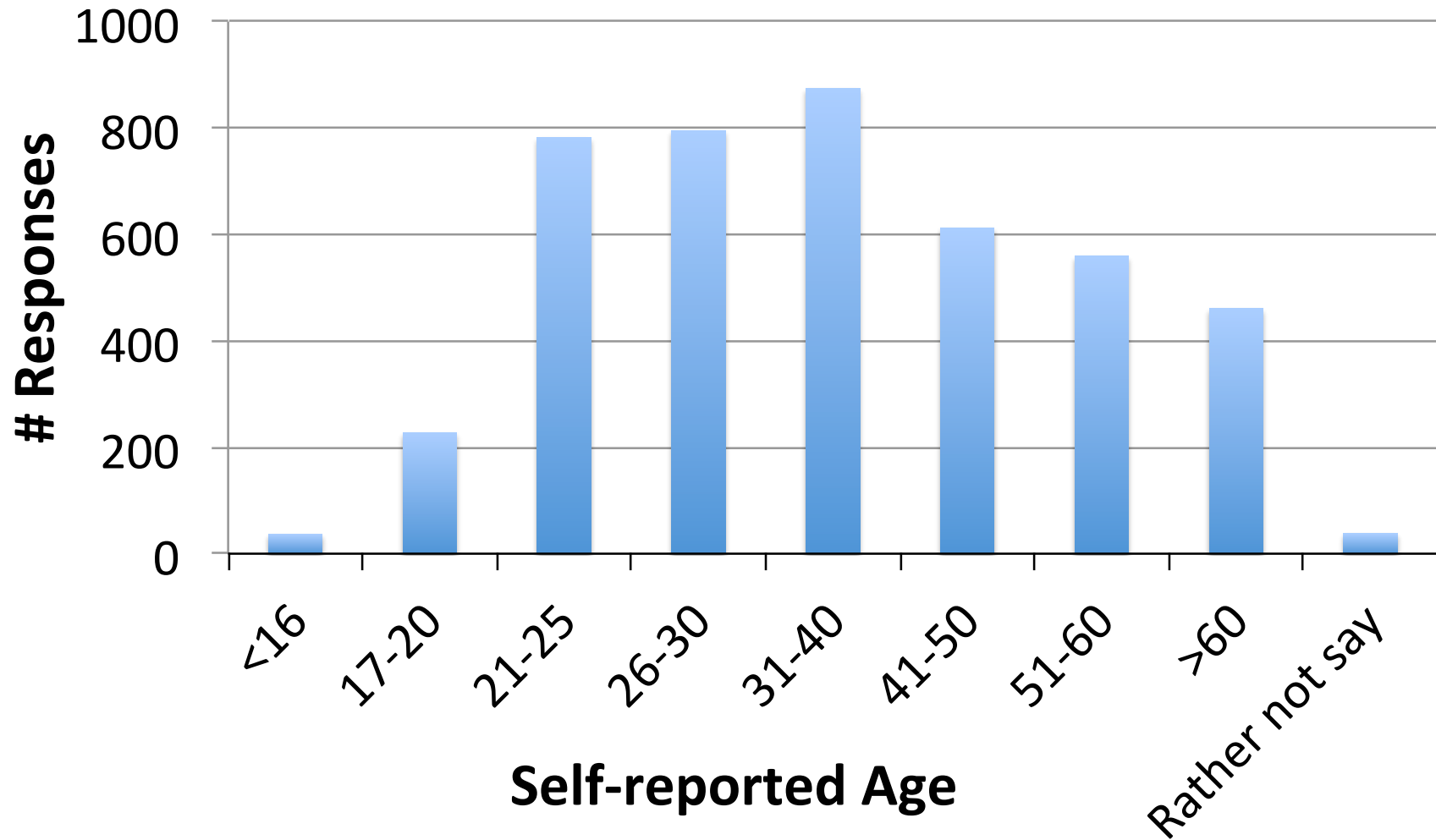
- 9825 people registered so far
- 6101 logged in at least once so far
- ~3500 were active in the first week



Who are the participants?



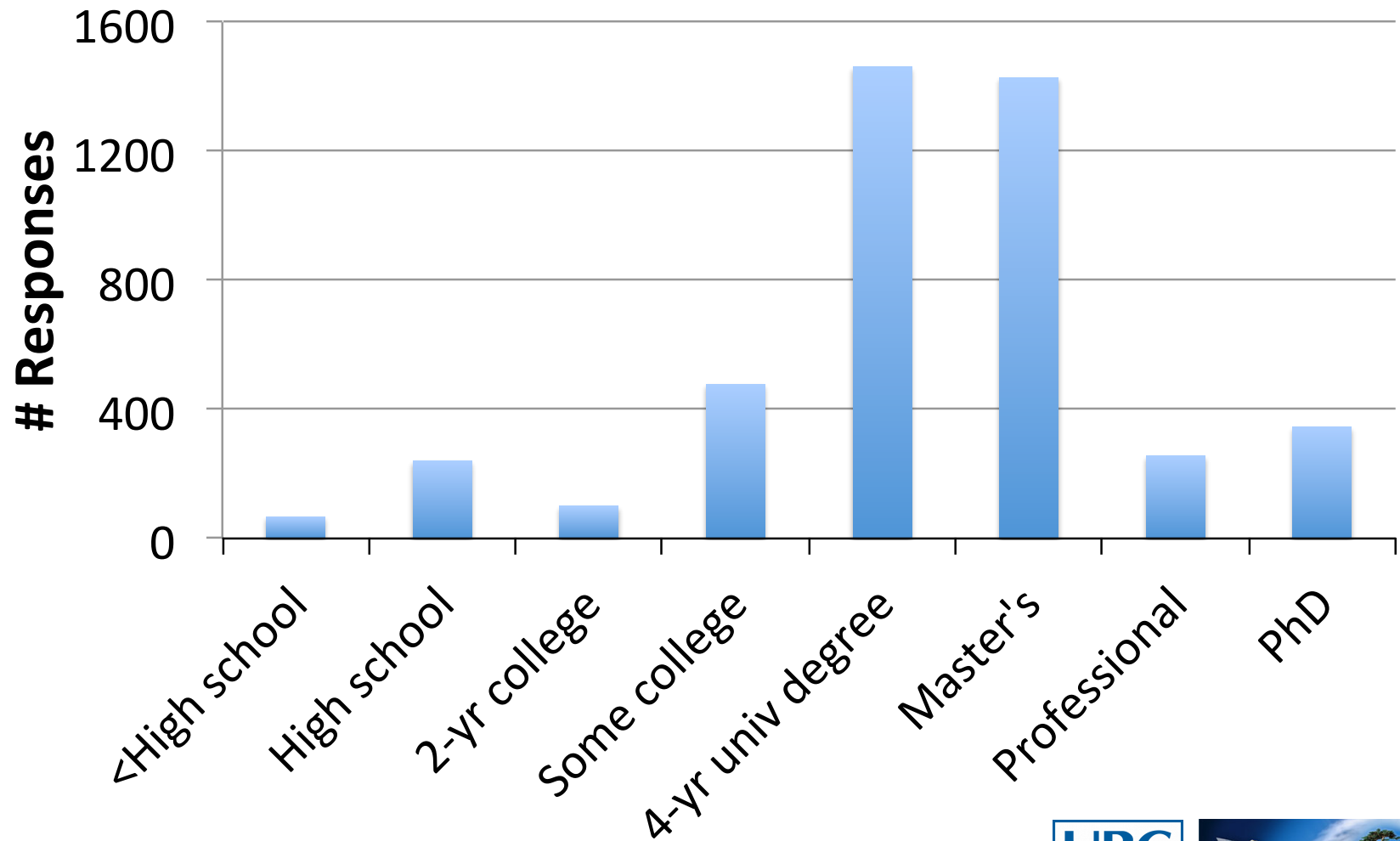
Who are the participants?



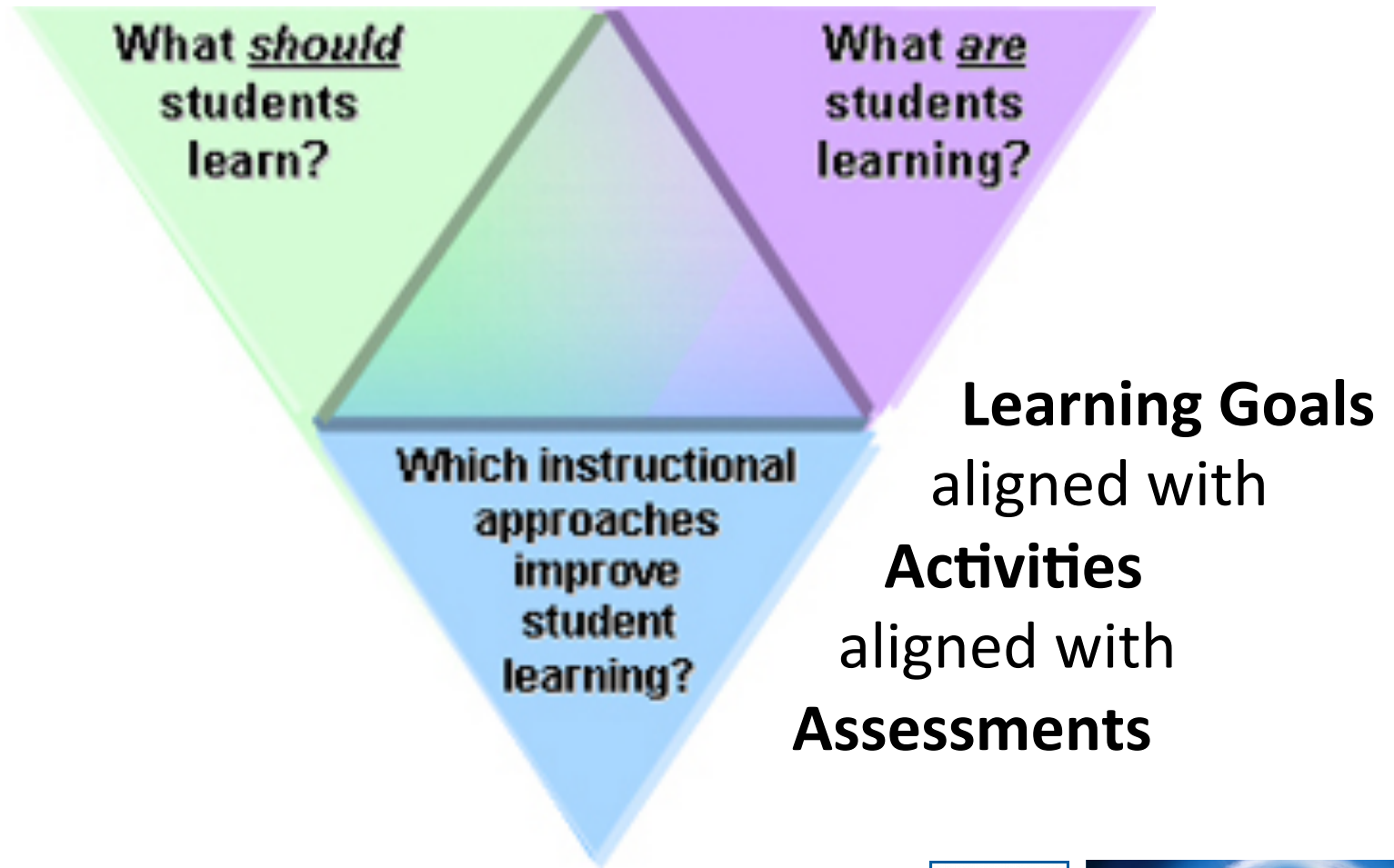
Median age: 30s



Who are the participants?



Course Design: Principles



Carl Wieman Science Education Initiative
at the University of British Columbia



Course Design: Tools

Less active



- Videos
- Embedded questions in videos
- Standard self-test, quiz and survey tools
- Freely available readings
- Freely available interactive simulations, climate models
- Peer-assessed assignments (optionally shared)
- Discussion Forum (30,124 posts+comments)



More active



Course Design: Structure



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Climate Literacy: Navigating Climate Change Conversations

by Dr. Sarah Burch, Dr. Sara Harris



Announcements

Course Information

Course Schedule

Discussion Forums

Course Wiki

WEEKLY MODULES

Course Introduction

Module 1: The Conversation

Module 2: Climate System

Module 3: Energy

Announcements

Module 5 materials available!

Welcome to the start of Module 5! [Module 5](#) is about climate modeling. We'll start with some of the basics of climate models, and you'll have opportunities to play around with some online models.

We're currently in the midst of the first [Discussion Forum Assignment](#). Your forum post submission is due this coming Monday, October 28th at 4am (UTC -7:00). The Peer Assessment process will begin on Monday, which gives you the opportunity to grade your peers' work, and receive their assessments of your own work in return. You must complete Peer Assessment by Monday November 4th at 4am (UTC -8:00). As mentioned in last week's announcement, you will undergo a "training" phase to practice using the rubric, before you do the real thing on other participants' work. The system won't give you much useful feedback on your training, but we will post some examples with associated rubric evaluation. That page with examples will be up by Monday and there will be a link to it from the "Forum Assignments" page.

We're also looking forward to the first major assignment of the course - Assignment 1 - which we hope will generate a diverse and unique collection of climate-related information and stories from around the globe. If you are unsure about how to start Assignment 1, be sure to read the [Assignment 1 page](#) carefully. You also might want to check out the [Climate Literacy Map](#) to see some examples from the summer course (and perhaps already a few from this offering).

Upcoming Deadlines

Quizzes

Module 4 Quiz

Mon 28 Oct 2013 4:00 AM PDT (UTC -0700)

Recent Discussions

[Confused about trees](#)

Last post by [redacted] (9 minutes ago)

[Open question. How to effect change in our countries and communities?](#)

Last post by [redacted] (28 minutes ago)

[Carbon Capture Seems to be a Really Bad Idea!](#)

Last post by [redacted] (30 minutes ago)

[Say "Hi" to your classmates here!](#)

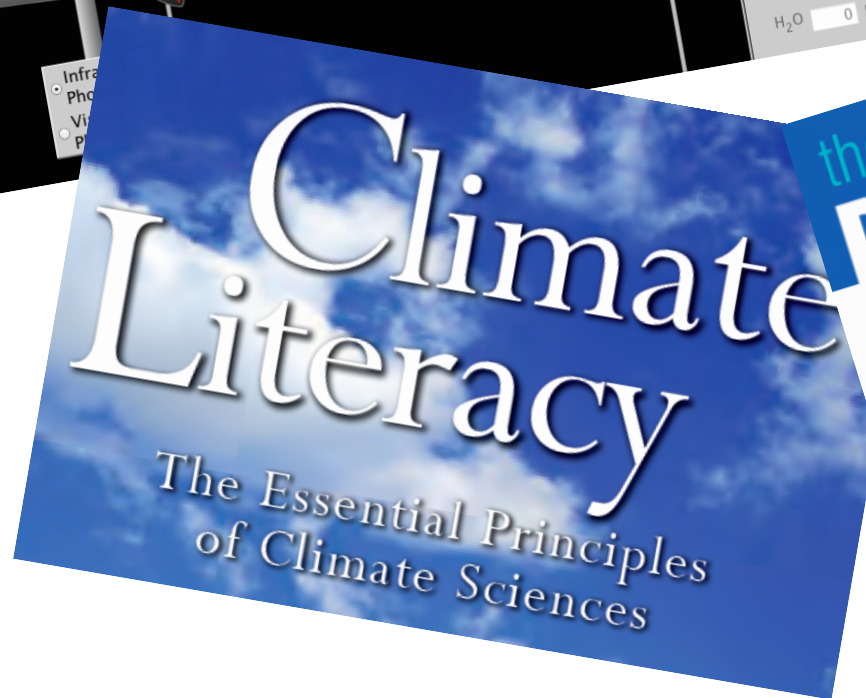
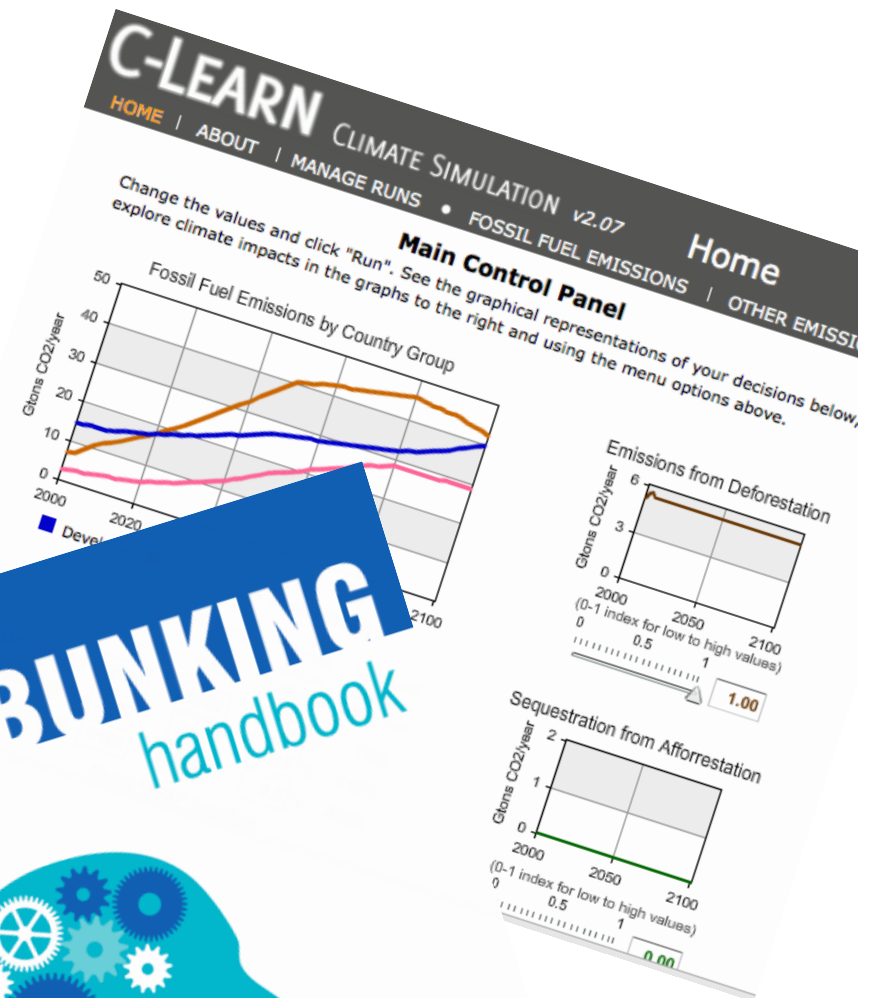
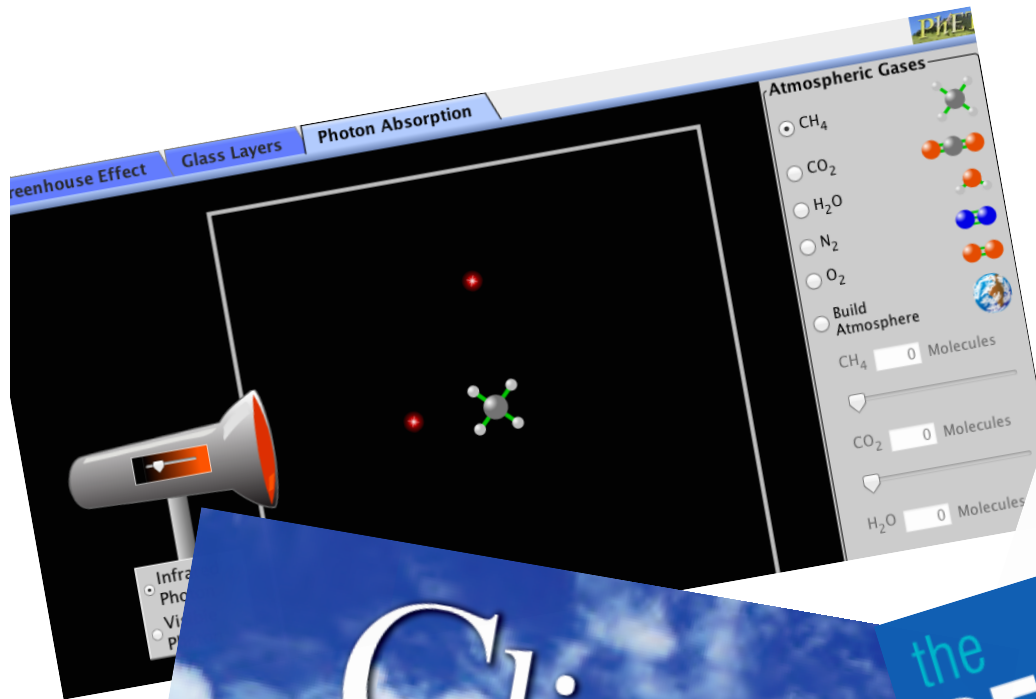
Last post by [redacted] (32 minutes ago)

[Has there been a "pause" in global warming?](#)

Last post by [redacted] (an hour ago)

[Admin Help](#)

Course Design: Using Existing Resources



the **DEBUNKING** handbook



Participant-Generated Content: Climate Literacy Map



Public map (fewer points, but growing):
<https://www.zeemaps.com/map?group=640026>

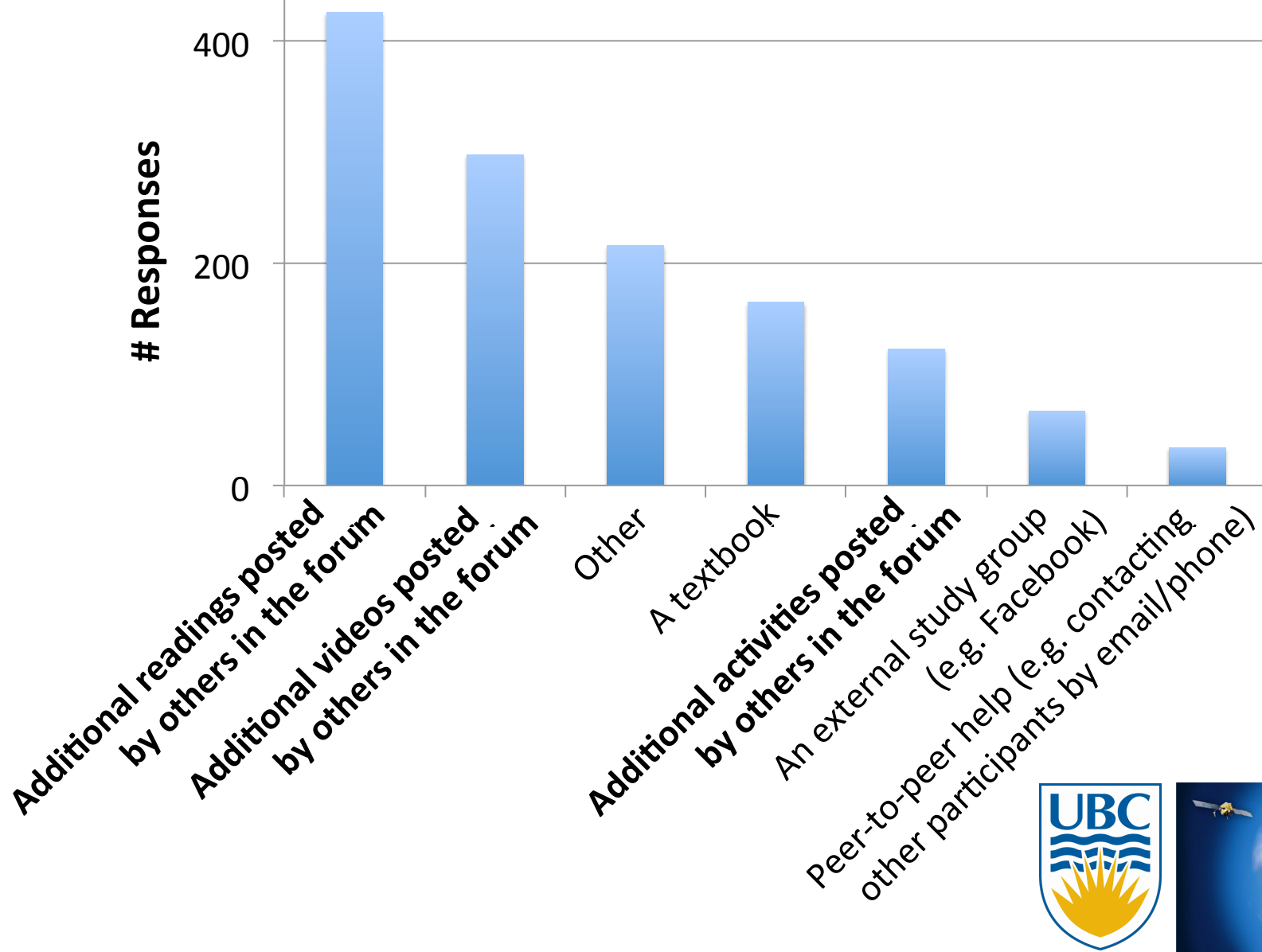


Participant-Generated Content: Discussion Forums

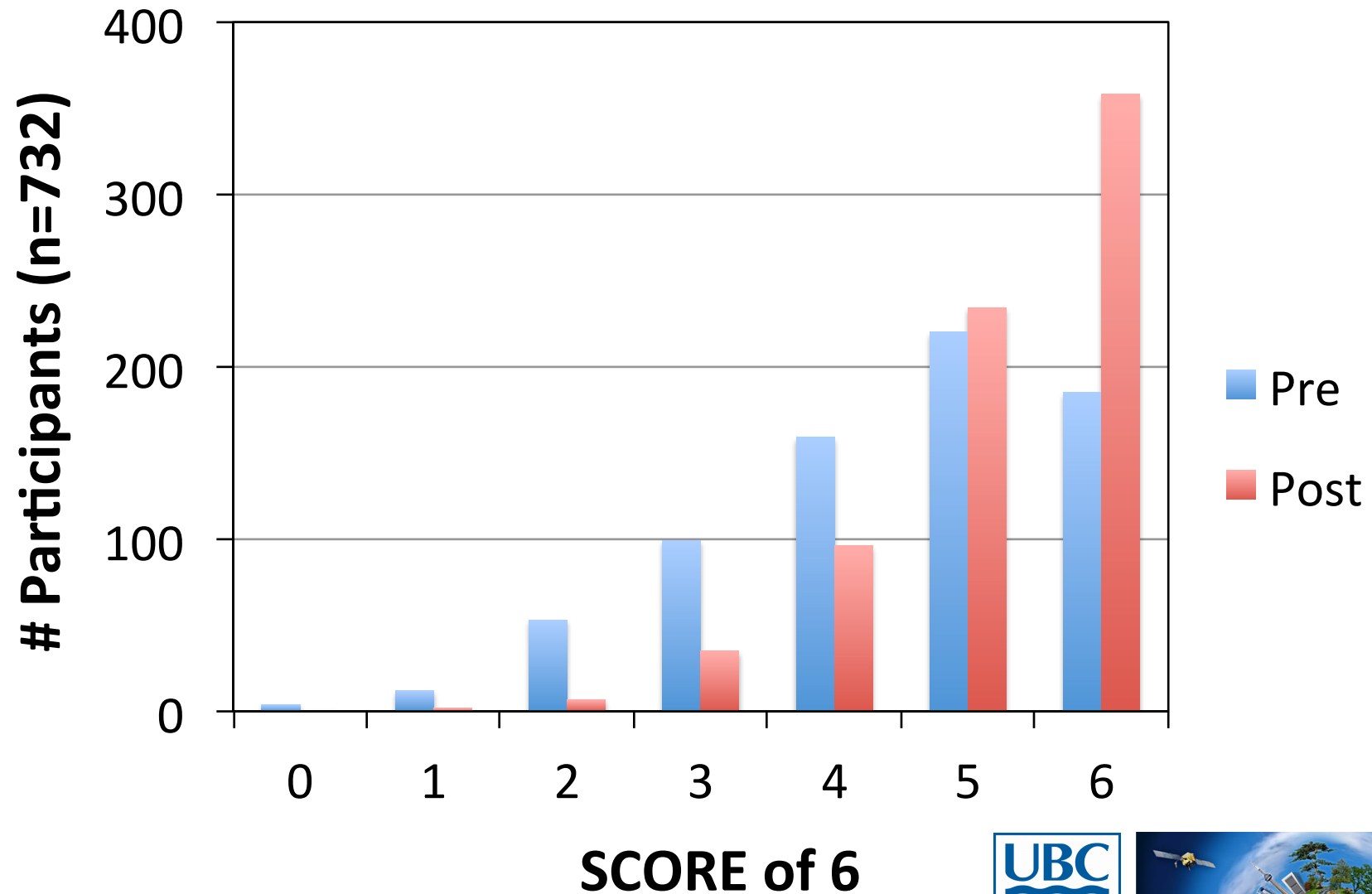
Survey: Climate Mitigation for coastal cities - What shall WE do? Started by [redacted] · Last post by [redacted] (7 minutes ago)	0 points	1 post	2 views
Climate Change and biological diversity... a real danger? Started by [redacted] · Last post by [redacted] (14 minutes ago)	0 points	11 posts	62 views
CSI Climate: Al Gore on TED & why people tend to ignore CC Started by [redacted] · Last post by [redacted] (15 minutes ago)	1 point	16 posts	58 views
How is making Cement bad? STAFF REPLIED · Started by [redacted] · Last post by [redacted] (20 minutes ago)	1 point	38 posts	257 views
What would happen if we paint all the roofs in white? Less warming? Started by [redacted] · Last post by [redacted] (29 minutes ago)	7 points	57 posts	255 views
Carbon Capture - Can't decide? STAFF REPLIED · Started by [redacted] · Last post by [redacted] (38 minutes ago)	1 point	19 posts	114 views
Module 2.3: Feedback Loops STAFF REPLIED · Started by [redacted] · Last post by [redacted] (40 minutes ago)	1 point	144 posts	847 views
Carbon Capture Seems to be a Really Bad Idea! Started by [redacted] · Last post by [redacted] (an hour ago)	6 points	13 posts	91 views
Free access to scholarly & non-scholarly articles via your public library Started by [redacted] · Last post by [redacted] (an hour ago)	0 points	1 post	2 views
What's the origin of the 2°C target?!? STAFF REPLIED · Started by [redacted] · Last post by [redacted] (an hour ago)	0 points	7 posts	45 views

Using Other Participants' Resources

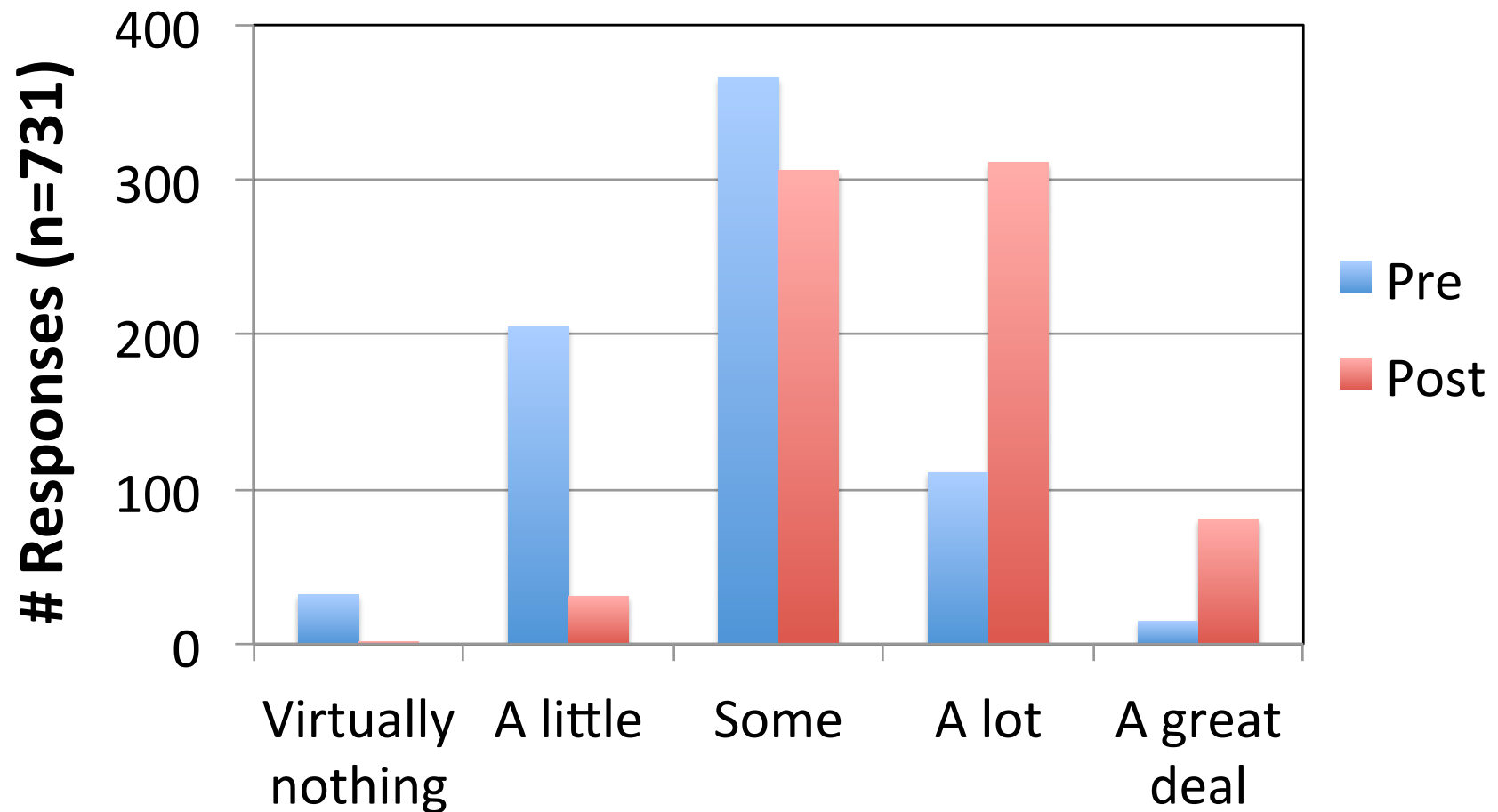
(Which of these external resources did you use?)



Learning? Pre-Post Test Scores



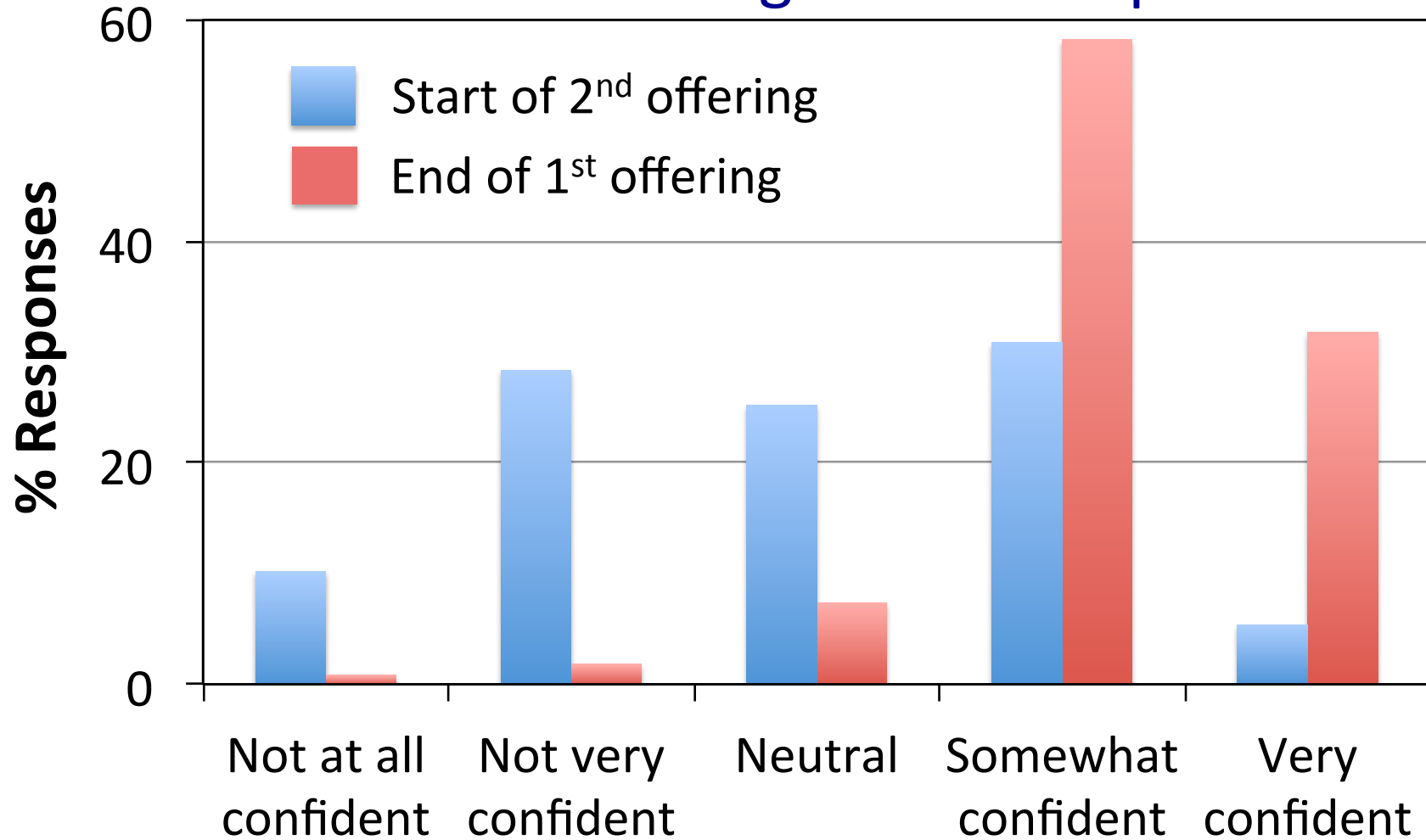
How much do you know about global warming or climate change?



Self-reported knowledge



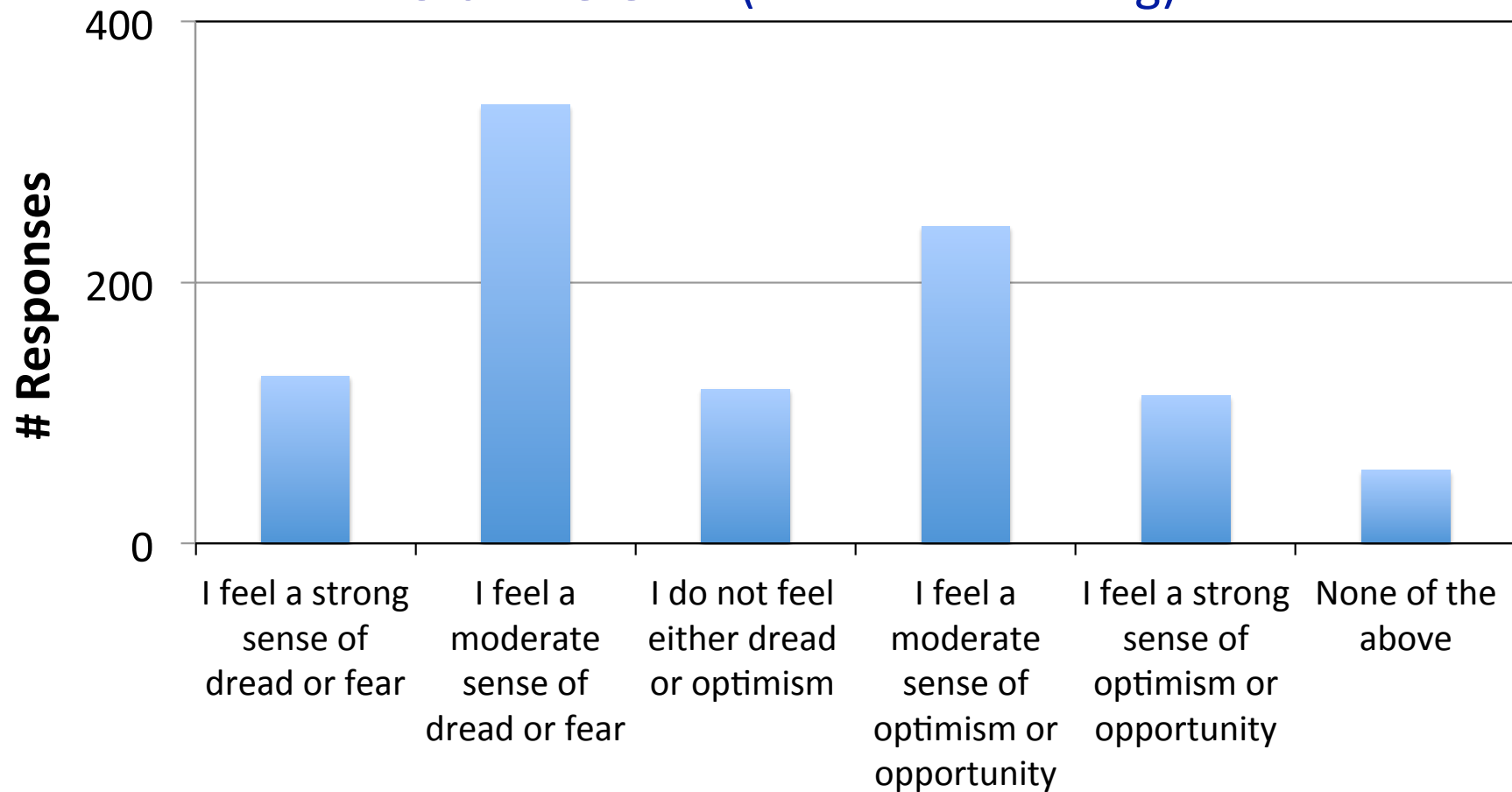
How confident do you feel in communicating about climate change to non-experts?



Self-reported confidence



How Does Climate Change Make You Feel? (end of 1st offering)



What's next?

- What behaviors, if any, do participants change after this experience?
- Development of new communities?
 - Ongoing learning?
 - Potential role(s) in climate change discussions or decisions?

<https://www.coursera.org/course/climateliteracy>

