**DAY 37: Fri Nov 21 RAT Stable Isotopes**

Care N Use of Collections

1. **10:00-10:03 Business—**
   1. **new survey is up!** Please take it before we come back so I can use your comments as I lay out the final details for the last unit
   2. **Uses & Abuses next semester—**required for Museum studies minor—they should take it!
   3. **Monday after break all backgrounds and project descriptions are DUE.** Background should look awesome.
   4. **Check that your attendance charts are filled in—Birds group, where is the previous page of your attendance chart?!**
   5. **Take a message box** (blue or green, check the author title and year to know which paper you are doing your message box for. Read both articles—they are SO SHORT, but only one message box—another birthday present from me☺)
   6. **Your petrel and cave bear message boxes are graded—nice job!**
2. **10:03-10:13 iRAT**: 10 min🡪
3. **10:13- 10:23** tRAT: 10 min🡪
4. **10:20-10:30** discussion of answers, arguing
5. **10:30-10:40 FINISH petrel figure facts for at least one figure?**
6. **10:30-10:50 Team activity: Answering advanced questions** (or any of the previous ones if they got a lot wrong on the RAT, I only used #3, #4, #8) from The Tree-thinking Challenge (Baume et al. 2005)
   1. we will probably either assign some of these as homework, or pick up with them on the phylogenetics day (Monday after break)

**THEIR PREP:**

**RAT Reading**

Gregory, T. Ryan. "Understanding evolutionary trees." *Evolution: Education and Outreach* 1.2 (2008): 121-137.

**Paraphyly, polyphyly, monophyly youtube video:** [**https://www.youtube.com/watch?v=ymySM8C1px8**](https://www.youtube.com/watch?v=ymySM8C1px8)

**And website:** [**http://www.ucmp.berkeley.edu/glossary/gloss1/phyly.html**](http://www.ucmp.berkeley.edu/glossary/gloss1/phyly.html)

**Youtube test yourself on tree-thinking interactive youtube:**

[http://evolution.berkeley.edu/evolibrary/search/lessonsummary.php?resource\_id=474&topic\_id=2&sort\_by=resource\_title&keywords=&type\_id=&thisaudience=13-16&pr=0&status=thanks](http://evolution.berkeley.edu/evolibrary/search/lessonsummary.php?resource_id=474&topic_id=2&sort_by=resource_title&keywords=&type_id=&thisaudience=13-16&pr=0&status=thanks" \t "_blank)

**PREP:**

* Team folders
  + RATS
    - 3 team RATS
    - 12 Individual RATS
    - SCRATCH OFF CARDS!
    - Still need to turn back graded message boxes