

APTPLUS Scavenger Hunt for UAB Antarctica Project

Main Website: <http://antarctica.uab.edu/>

Blog Website: <http://antarctica.uab.edu/blog/>

Flickr Website: http://www.flickr.com/groups/uab_antarctica/pool/

International Polar Year: <http://www.ipy.org/>

Palmer Island Map: <http://www.usap.gov/USAPgov/sciencesupport/GIS/images/BoatingMap.gif>

Antarctica to US Comparison:

<http://www.usap.gov/USAPgov/sciencesupport/GIS/images/AntarcticOverlay.gif>

CNN Story: <http://www.cnn.com/2007/TECH/science/03/27/polar.year.study/index.html>

YouTube: If you have access to YouTube you can see videos of several interviews here:

<http://www.youtube.com/profile?user=UABWeb>

An Internet scavenger hunt is a game in which one seeks to find all items of information on a list. The items for this scavenger hunt are questions that can be answered by reading the blog entries of the UAB Antarctica research team. Please answer the questions on your own paper. Happy scavenging! *Tip: In many cases you will need to look at the photos that are posted on the righthand side of the page.*

To find out more about the cast of characters in this Antarctic adventure, go to the <http://antarctica.uab.edu> and look at the right navigation bar. For this portion of the hunt, you will also need to click on “More About ...” to get further personal information.

1. Who is James McClintock? What distinction does he have that few living people on earth share?
2. Who is Charles Amsler? What is his nickname?
3. Who is Margaret Amsler? What does she consider a great way to start the day?
4. Who is Craig Aumack? What is Craig’s research goal on this expedition?
5. Who is Philip Bucolo? Summarize the background information about his research topics.

From this point forward, at the end of each clue, there will be a link to the blog that contains the answer to the question. Simply click on the link, read the blog entry and answer the question. Also, note that some of the clues may be in the photos included on the right side of the blog post.

6. This National Science Foundation-funded research “studies how organisms utilize chemical compounds to defend themselves from predators, competitors, and organisms that would overgrow or infect them.” This UAB blog, <http://antarctica.uab.edu/blog/321>, is about the [IPY](#). What does IPY stand for? (click the IPY link) What did the Palmer Station group do for the occasion? Why is the timing of the IPY so remarkable?
7. The research that is being conducted by the UAB team has broad implications beyond chemical ecological studies. What diseases might be impacted by the research being conducted?
<http://Antarctica.uab.edu/blog/378>

8. List 3 reasons why the oceans are particularly promising sources for new drugs?
<http://Antarctica.uab.edu/blog/378>
9. Discuss Palmerolides-what they are, where they came from, what is being done with them, and their potentially “broader impact” on human society. <http://Antarctica.uab.edu/blog/378>
10. Our video conference will be held at 9:00 AM. What time will it begin at Palmer Station, Antarctica? <http://www.wunderground.com/global/stations/89061.html> will give you current time and weather information. Write a sentence about current weather conditions and a brief synopsis of the forecast for the next week.
11. Look at the Antarctic food chain
<http://veggie-mon.mdanderson.org/sunuv/bacteria/wildlife.htm>.
Is the toothed whale at the bottom or the top of the chain?
Locate the leopard seal in the food chain and watch the video to see one in action
<http://news.nationalgeographic.com/news/2006/11/061113-penguins-video.html> (If you are squeamish, you may want to click to stop the video right before the end.)
http://www3.nationalgeographic.com/animals/mammals/leopard_seal.htm
12. What is a *Isodictya erinacea*? Does this description match the picture on the right side of the page? <http://antarctica.uab.edu/blog/335>.
13. Why is Bill studying the polychaete sponge? <http://antarctica.uab.edu/blog/335>.
14. Why does the team need *Cladophora*? Where does it grow? Why is the timing so important? Were they successful in collecting it on this day? <http://antarctica.uab.edu/blog/326>.
15. Chuck talks about the seasons in this blog post <http://antarctica.uab.edu/blog/326>. Use the information at <http://www.divediscover.who.edu/ecosystem/infomod.html> to help you write about the seasons in Antarctica.
16. What are some of the dangers when walking on a glacier? <http://antarctica.uab.edu/blog/312>
What is a possible explanation for the fact that the glacier has receded?
<http://antarcticsun.usap.gov/oldissues2003-2004/Sun011804/warmingWorldMeltsPalmerGlacier.htm>
17. The UAB group was in Antarctica on St. Patrick’s Day. List 8 green things that Maggie lists in her blog post. <http://antarctica.uab.edu/blog/306>
18. Where does Maggie say the forests are in Antarctica? <http://antarctica.uab.edu/blog/306>
19. Describe *Deschampsia antarctica*. What is the common name?
<http://antarctica.uab.edu/blog/306>
(Be sure to look at the photos on the page.)
20. What are the two main buildings at Palmer Station? What does GWR stand for?
<http://antarctica.uab.edu/blog/303>

21. How does Palmer Station connect to the Internet? <http://antarctica.uab.edu/blog/303>
22. What is the ARSV Gould? Why is it important to the scientist at Palmer Station?
<http://antarctica.uab.edu/blog/298>
23. Describe the focus of Bill and Alan's research. <http://antarctica.uab.edu/blog/298>
24. Go to <http://antarctica.uab.edu/blog/291> and as Craig requests, look at the bottom photo and think about what common name you would give the organism. Ask your teacher if you can share the name with the class. If the name is deemed appropriate, ask the teacher to post it as a comment on Craig's blog. (Remember: once it is posted it is on there forever.)
25. Why is having a "sling-shot" valve on diving equipment so important?
<http://antarctica.uab.edu/blog/418>
26. Why is fire such an emergency concern in Antarctica. <http://antarctica.uab.edu/blog/298>
27. After reading Maggie's post, list a few characteristics of sponges? How do sponges relate to Maggie's mission? <http://antarctica.uab.edu/blog/285>
28. What are three ways listed here for an organism to avoid being eaten by another organism?
<http://antarctica.uab.edu/blog/391>
29. Explain the process of creating scientific names (binomial nomenclatures) for organisms?
http://en.wikipedia.org/wiki/Binomial_nomenclature
30. Researchers catch a ship in Punta Arenas, Chile that takes them to Palmer Station. Tell briefly about last minute preparations and list at least 6 things the UAB team observed on the journey from Chile to Palmer. <http://antarctica.uab.edu/blog/213>
31. Refer back to question 6 about the IPY and discuss the connection between the team's research efforts in Antarctica and the IPY? <http://antarctica.uab.edu/blog/321>

We would like to thank the following for making possible the live video conference that will be a follow-up to this APTPLUS/UAB Antarctica Scavenger Hunt. Without their help, this would not have been possible.

