

**Palmer LTER VTC - Tuesday, February 16, 12:30-1:00am EST**  
**Questions Answered by Dr. Ari Friedlander & Logan Pallin**

1. (@ 8:23) Since the study has been going on for 25 years have you seen any noticeable effects of global warming on the WAP ecosystem?
2. (@ 9:53) The Antarctic is undergoing massive climate change how is this affecting whales and whale populations?
3. (@ 11:23) How is the decrease in sea ice along the WAP affecting the large marine mammals?
4. (@ 12:56) Have whale sightings increased because of sea ice melting? If yes, why?
5. (@ 14:07) How do you go about obtaining you samples from the whales? Does this harm the whales?
6. (@ 15:19) I have heard that all of the whales in the world sing the same songs, while humpback whales sing harder and more complex songs. How is this possible?
7. (@ 17:29) How did you decide to come to work at Palmer Station? Was it something you always wanted to do?
8. (@ 19:26) I have heard that krill populations have been decimated because of the loss of phytoplankton in the water, is this going to affect ALL the marine creatures in the Antarctic Peninsula?
9. (@ 21:22) What is the most difficult part of your job?
10. (@ 23:22) Are the warming Antarctic waters affecting krill production?
11. (@ 24:22) How has the expansion and improvement of technology affected your data or your results?
12. (@ 26:46) Since the krill population is an essential part of the Antarctic ecosystem what will happen if they go extinct?
13. (@ 27:52) What are some external factors that have affected your experiments for the good? bad?
14. (@ 28:43) Can humpback whales have twin babies?
15. (@ 29:26) What has been your most important scientific discovery while you have been in Antarctica?

16. (@ 30:38) Do the seasonal changes in sea ice extent due to global warming effect migratory whale populations? If so how?
17. (@ 31:55) Do you feel the work you do in Antarctica receives enough recognition?
18. (@ 33:18) Do whales migrating to the West Antarctic rely on ocean currents to get them there? If so what happens (to the whales) if due to global warming those currents are altered?