Palmyra Atoll Sea Turtles Groups 1-4

Information
BIOL101BUS Students:
You are investigating a data-driven socio-environmental issue “Globally endangered sea turtles of the Palmyra Atoll National Wildlife Refuge: A Focus on Scientific Analysis”

1. Read the paper
2. Watch the videos
3. Contact your group members and set up scheduled times to discuss and complete this project

Located in this module:
- the paper in its entirety for your reference
- a truncated version that you will work from as a group with the selected questions to answer [highlighted in yellow]
- videos to help you understand the topic in more depth

Your group report must include:
- group member names
- original questions
  - followed by the answer with citations
  - pertinent graphs, tables, etc..
  - other supporting materials specific to your topic & question
- references [APA format]

All submissions will be as a group and uploaded to TurnItIn no later than Sunday, May 6th 11:59PM
I can preview your submission via TurnItIn and offer guidance if needed (preview must be submitted by May 1st)

TurnItIn checks for plagiarism!

Videos

Truncated paper
Questions to answer are highlighted in yellow within this paper: PalmyraTurtle roth.docx

Exercise

A) Asking questions about sea turtle research at Palmyra Atoll

1) Why study sea turtles at Palmyra?

2) Based on the information above, can you formulate three [3] scientific or management/conservation questions that can be addressed through research at the
C) Methods and results: focus on sea turtle surveys at Palmyra Atoll

1) Which species appears to be most common along the atoll?
2) Are sea turtles found randomly throughout the atoll? If not, identify areas where sea turtles are most commonly seen.
3) Assuming the data are correct, what might be some explanations to account for their distribution?
6) Now look at the results of additional surveys, which followed a more defined survey design (Appendix 2: Figures 9-11).
   a. Do they confirm the conclusions based on the first survey?
   b. Are these data sufficient to estimate distribution and relative abundance of sea turtles along the atoll?

D) Current Turtle Data

This research was conducted over 10 years ago. What are the turtle numbers now? Use the information provided in this paper and the Internet to ‘update’ the numerical data on the green sea turtle (*Chelonia mydas*) and the hawksbill sea turtle (*Eretmochelys imbricata*). Other turtle sightings? What other ecological or environmental issue/data (containments, predators, invasive organisms...Etc?) can you present that might influence the current number of sea turtles?

Report should include:

- Self-generated graphs
- Narrative (two to three paragraphs)
- References (APA format)

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**Paper in its entirety**


**Sea turtles of the Palmyra Atoll**

Your group report must include: •group member names •original questions followed by the answer with citations •references [APA format] Reports must be well written and free of grammatical errors & typos.

>> [View/Complete](PalmyraTurtleEX_2017-05-11.pdf)

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**Survey**

Please complete the survey on your group project.

[https://www.surveymonkey.com/r/2FGMJJW](https://www.surveymonkey.com/r/2FGMJJW)

All answers will remain confidential.

This may also remain anonymous if you decline to input your name.

Due by Friday, May 18th by 11:59PM  EST