

# 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 6<sup>th</sup>** 11:59PM

I can preview your submission via TurnItIn and offer guidance if needed (preview must be submitted by May 1<sup>st</sup>)

**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

PANWR?

**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)

**Paper in its entirety**

[PalmyraTurtleEX\\_2017-05-11.pdf](#)

**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](#)

**Survey**

Please complete the survey on your group project.

<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