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Score = 21.5 /25

Submitted on time? ☒ Y ☐ N

GENERAL REQUIREMENTS (10 POINTS):

Element	Points	Score	Feedback
Effective git/GitHub	1	1	
Well-organized	1	1	
Strong commentary outside of code chunks	3	3	
Effective use of comments within code chunks	2	0	None
Code provides correct values and reduces “human intervention”	2	2	
Link on Canvas	1	1	

STATISTICAL ANALYSES (15 POINTS):

☒ Took initiative to learn new methods as appropriate

☒ Generally followed the our workflow:

Plot -> Guess -> Create model -> Check assumptions -> Interpret -> Final plot

Statistical analysis 1:

Question: What is the effect of different habitat types on Mg, Na, Fe and K?

Workflow checklist

☒ 1. Plot data

☒ 2. Guess relationships

☒ 3. Create model: 2-way ANOVA

☒ Correct model?

☒ 4. Check model assumptions, if needed

☒ 6. Replot

☒ 5. Interpret model

☒ 7. Clear results statement

☒ Interpretation is correct

☒ In prose

☒ Outside of code chunk

Statistical analysis 2:

Question: Is there a significant relationship b/w dissolved oxygen and element concentration in the water?

Workflow checklist

- | | |
|--|--|
| <input checked="" type="checkbox"/> 1. Plot data | <input type="checkbox"/> 2. Guess relationships |
| <input checked="" type="checkbox"/> 3. Create model: <u>linear regression (should really be ANCOVA or focus on single element)</u> | |
| <input type="checkbox"/> Correct model? | |
| <input checked="" type="checkbox"/> 4. Check model assumptions, if needed | <input checked="" type="checkbox"/> 6. Replot |
| <input checked="" type="checkbox"/> 5. Interpret model | <input checked="" type="checkbox"/> 7. Clear results statement |
| <input checked="" type="checkbox"/> Interpretation is correct | <input checked="" type="checkbox"/> In prose |
| | <input checked="" type="checkbox"/> Outside of code chunk |

Statistical analysis 3:

Question: _____

Workflow checklist

- | | |
|--|---|
| <input type="checkbox"/> 1. Plot data | <input type="checkbox"/> 2. Guess relationships |
| <input type="checkbox"/> 3. Create model: _____ | |
| <input type="checkbox"/> Correct model? | |
| <input type="checkbox"/> 4. Check model assumptions, if needed | <input type="checkbox"/> 6. Replot |
| <input type="checkbox"/> 5. Interpret model | <input type="checkbox"/> 7. Clear results statement |
| <input type="checkbox"/> Interpretation is correct | <input type="checkbox"/> In prose |
| | <input type="checkbox"/> Outside of code chunk |

Additional feedback

You're on the right track. There are quite a few issues to contend with, but this was a thorough first effort!