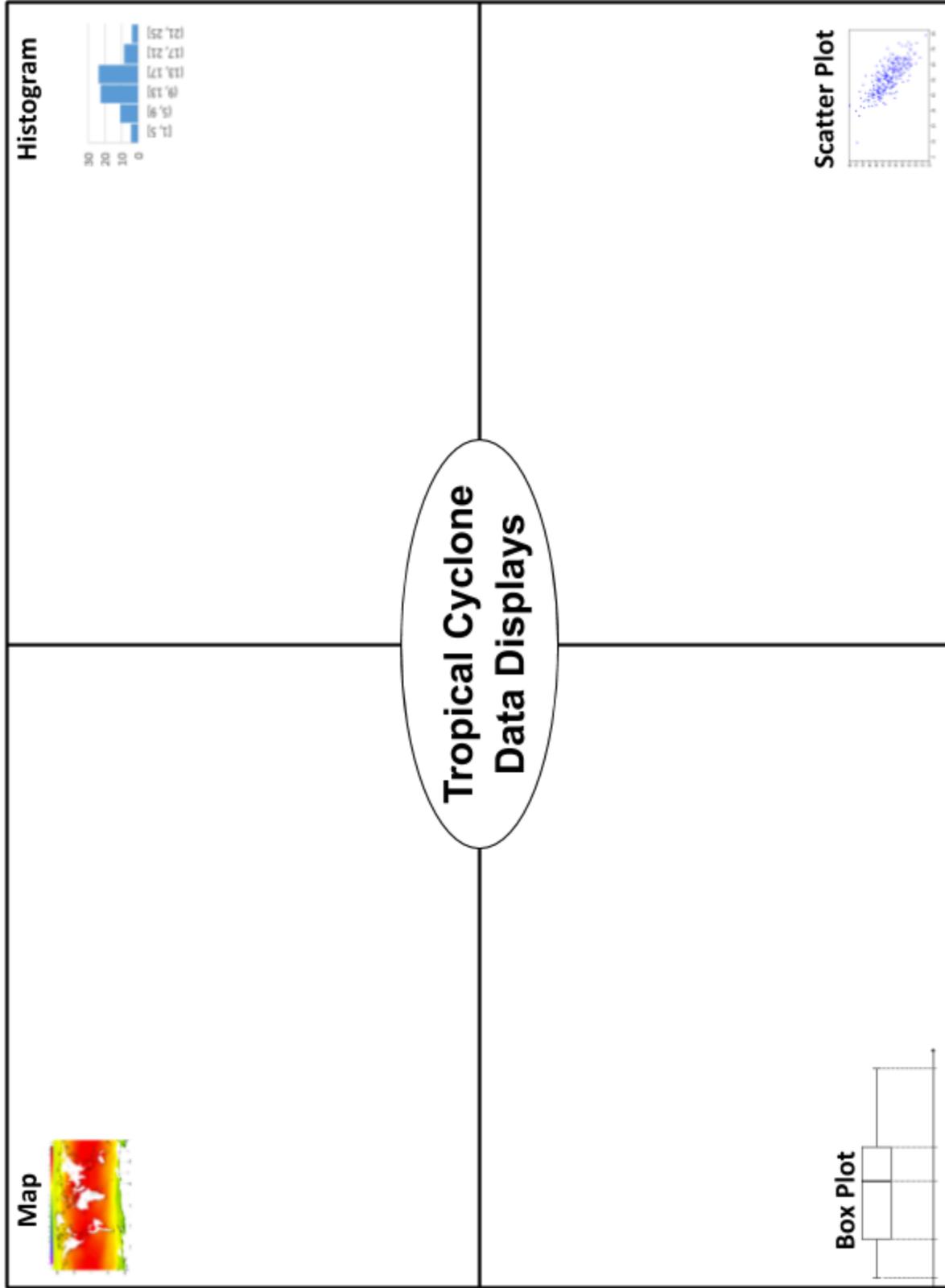


Student Name:

Date:

Class:





Histogram

1. What did the plot show?

2. What patterns did you see?

3. Does the plot answer any of the questions your group asked in their Frayer Model for that type of plot?

Box Plot

1. What did the plot show?

2. What patterns did you see?

3. Does the plot answer any of the questions your group asked in their Frayer Model for that type of plot?



Scatter Plot

1. What did the plot show?

2. What patterns did you see?

3. Does the plot answer any of the questions your group asked in their Frayer Model for that type of plot?

Discuss the map image and compare it with the other three plot types.

1. Which type of graph is most useful for determining the latitudes with the highest and lowest hurricane risk?

2. What can you conclude about the distribution of tropical cyclones?

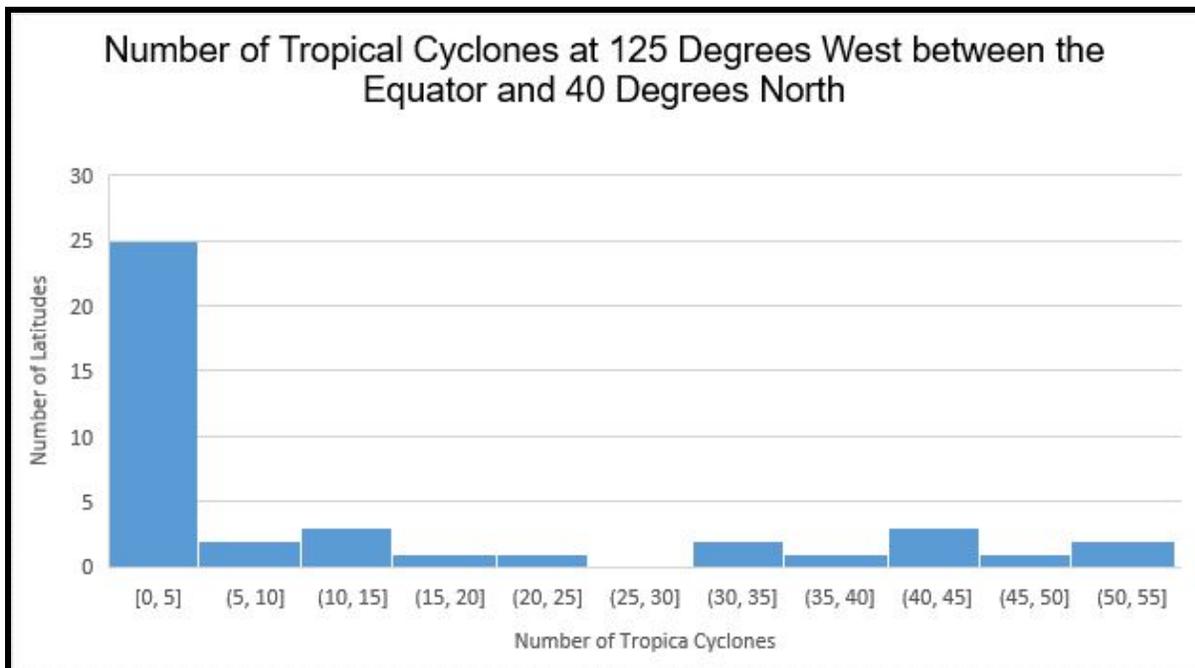
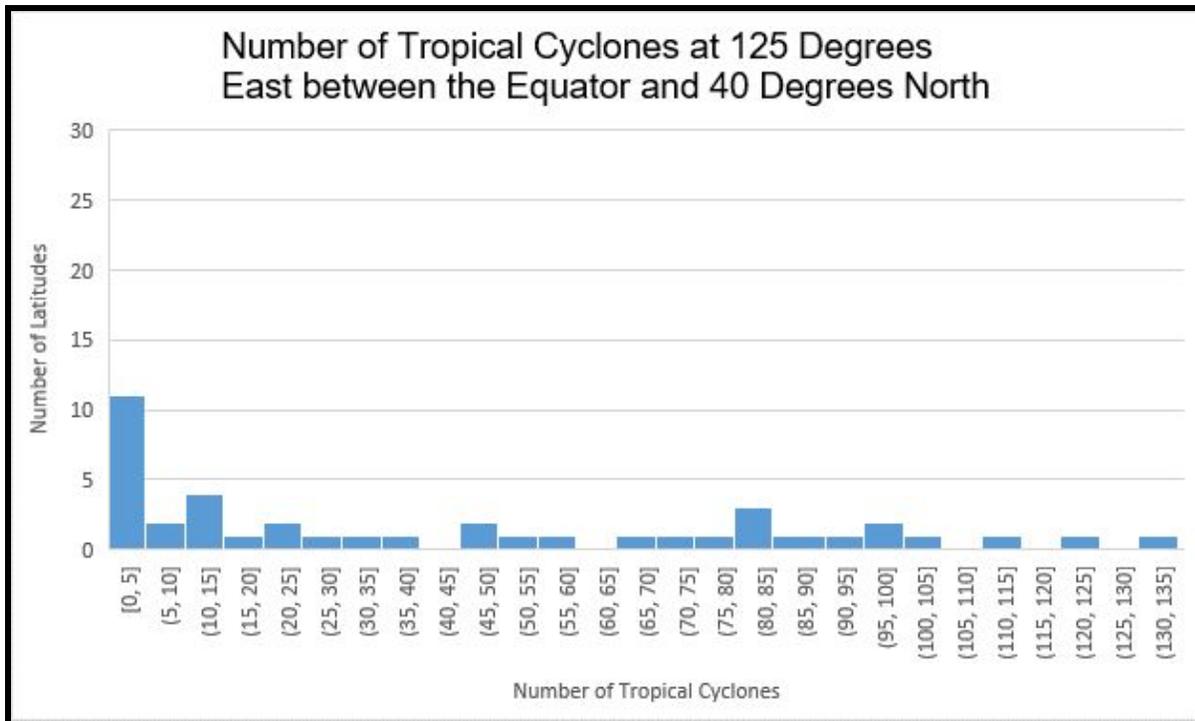


Analyze data

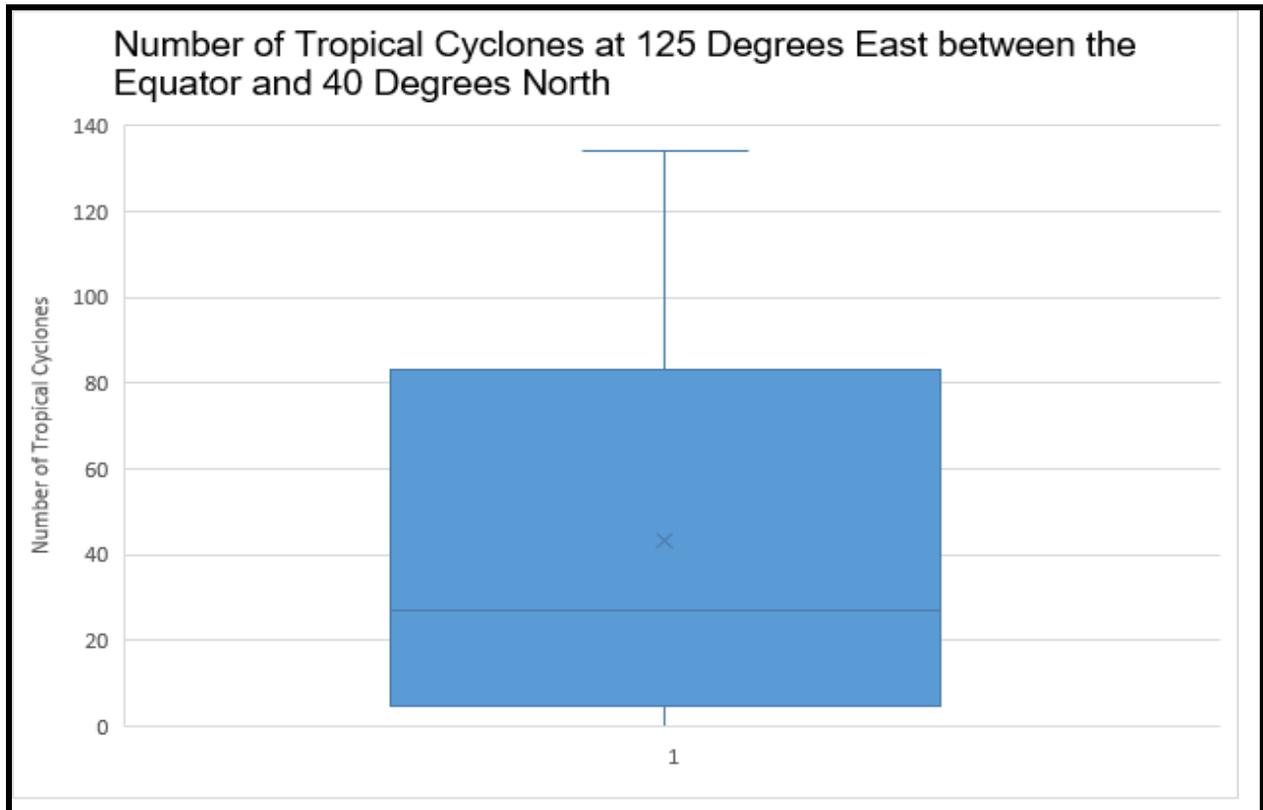
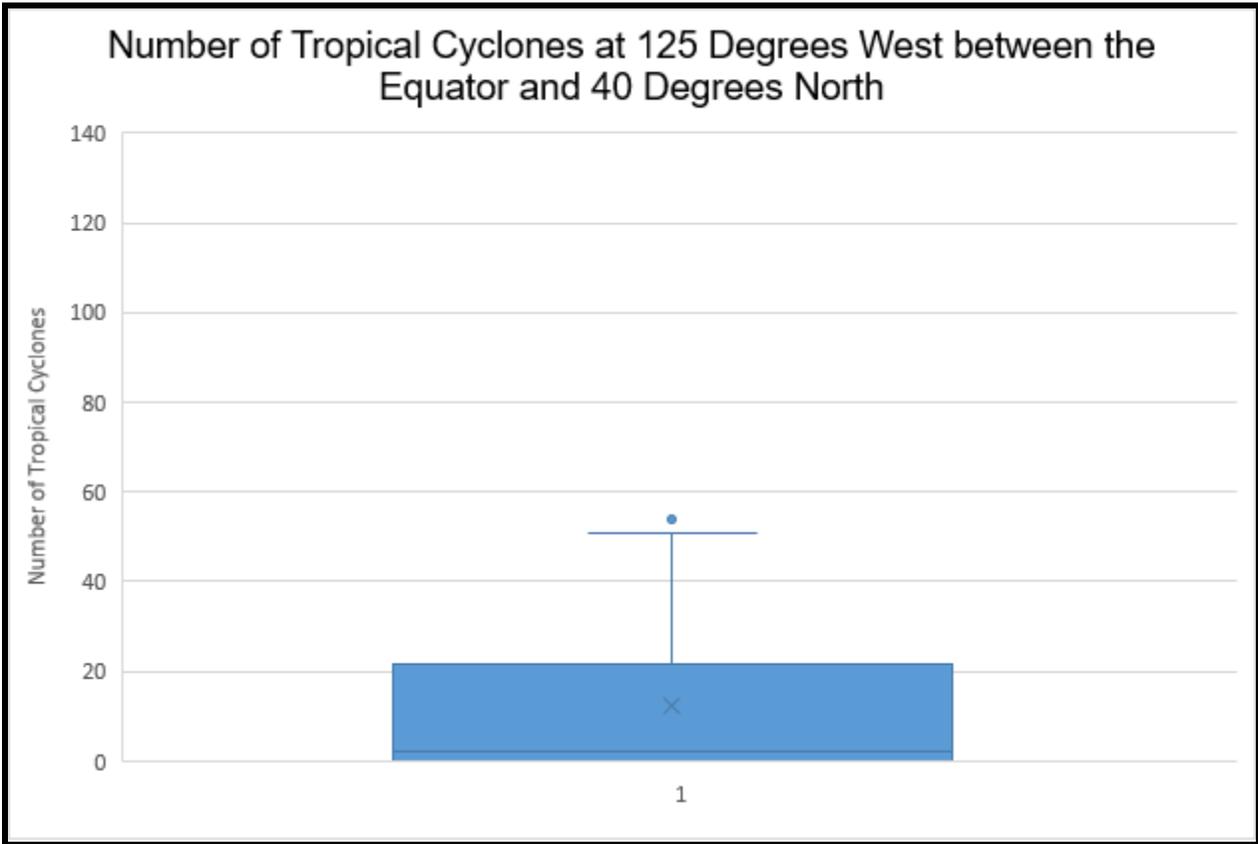
Complete the Chart for your group's data display.

Type of plot	Max	Min	Median	Mode	Correlation	Distribution	Patterns
Histogram							
Box Plot							
Scatter Plot							

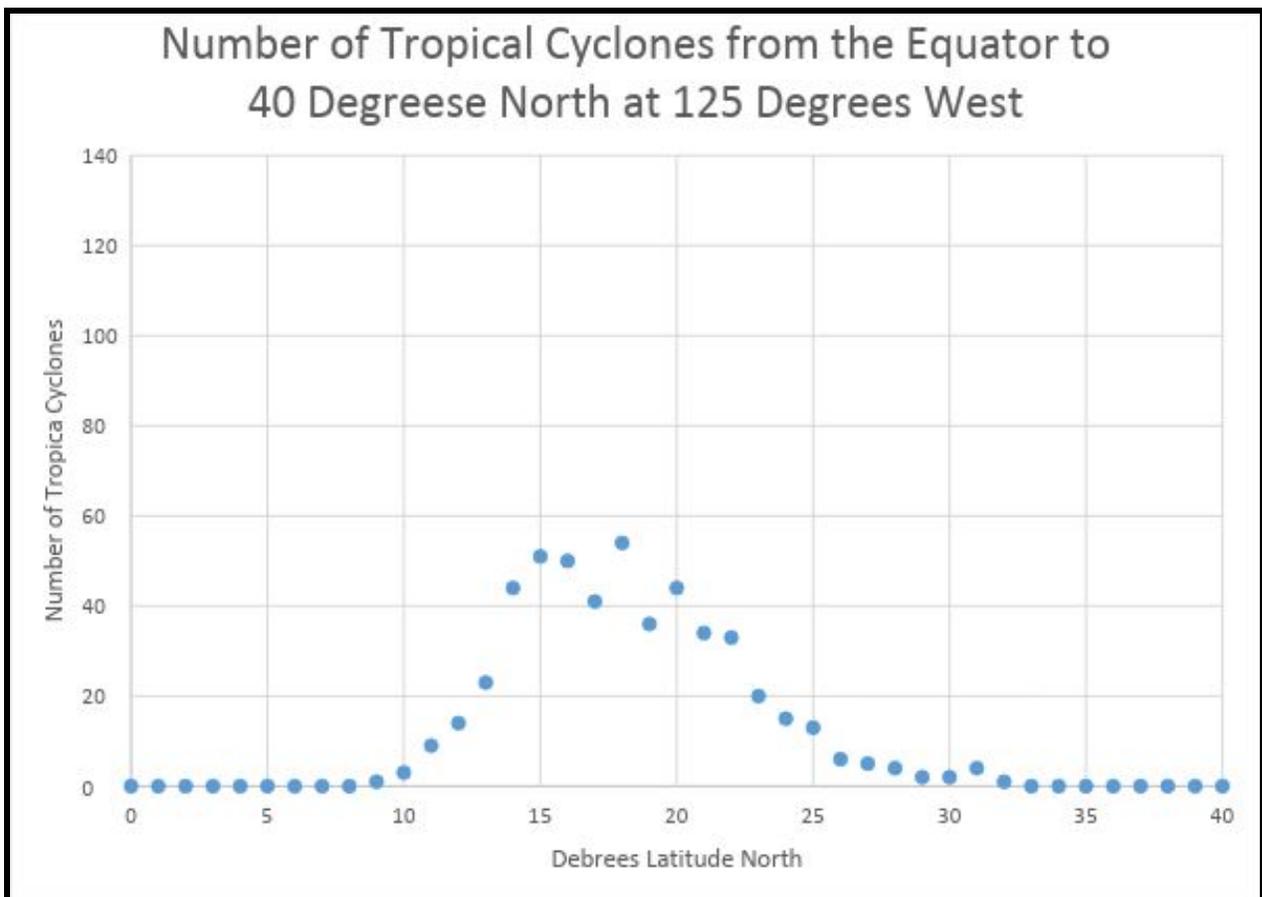
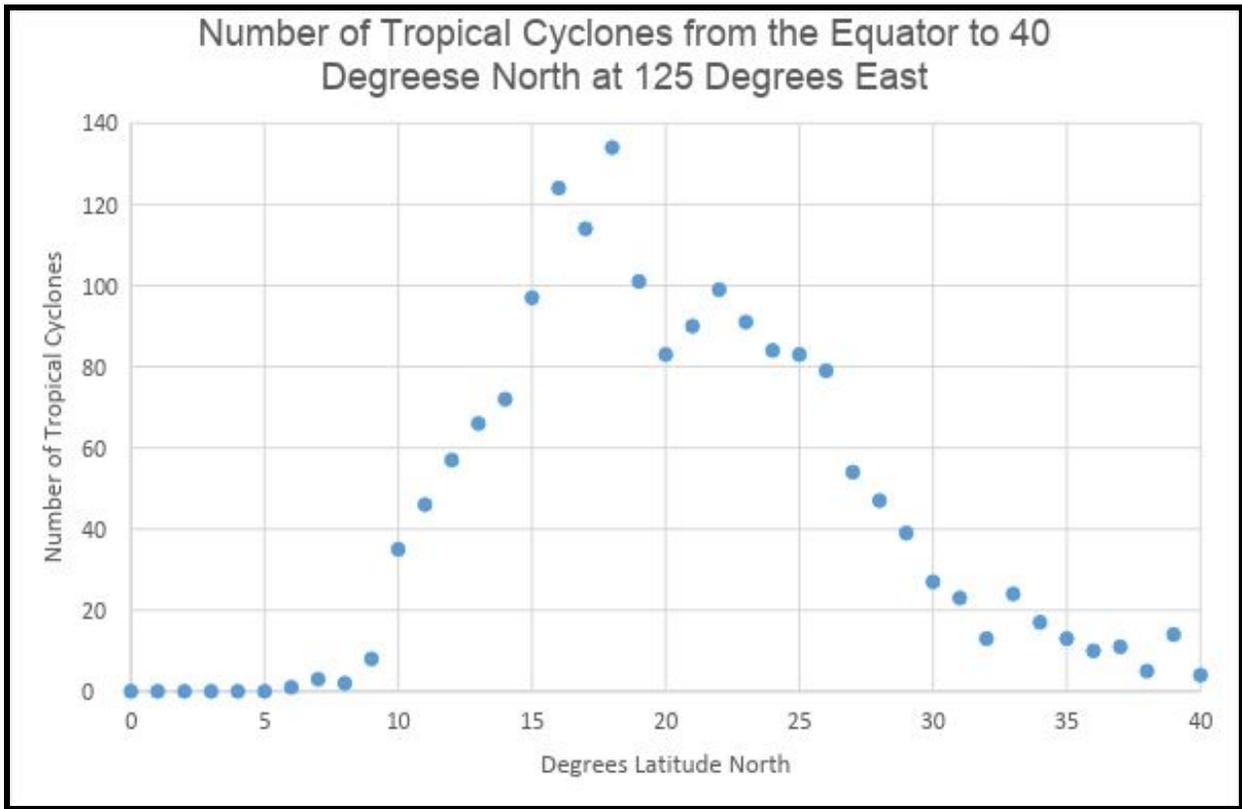
Histograms

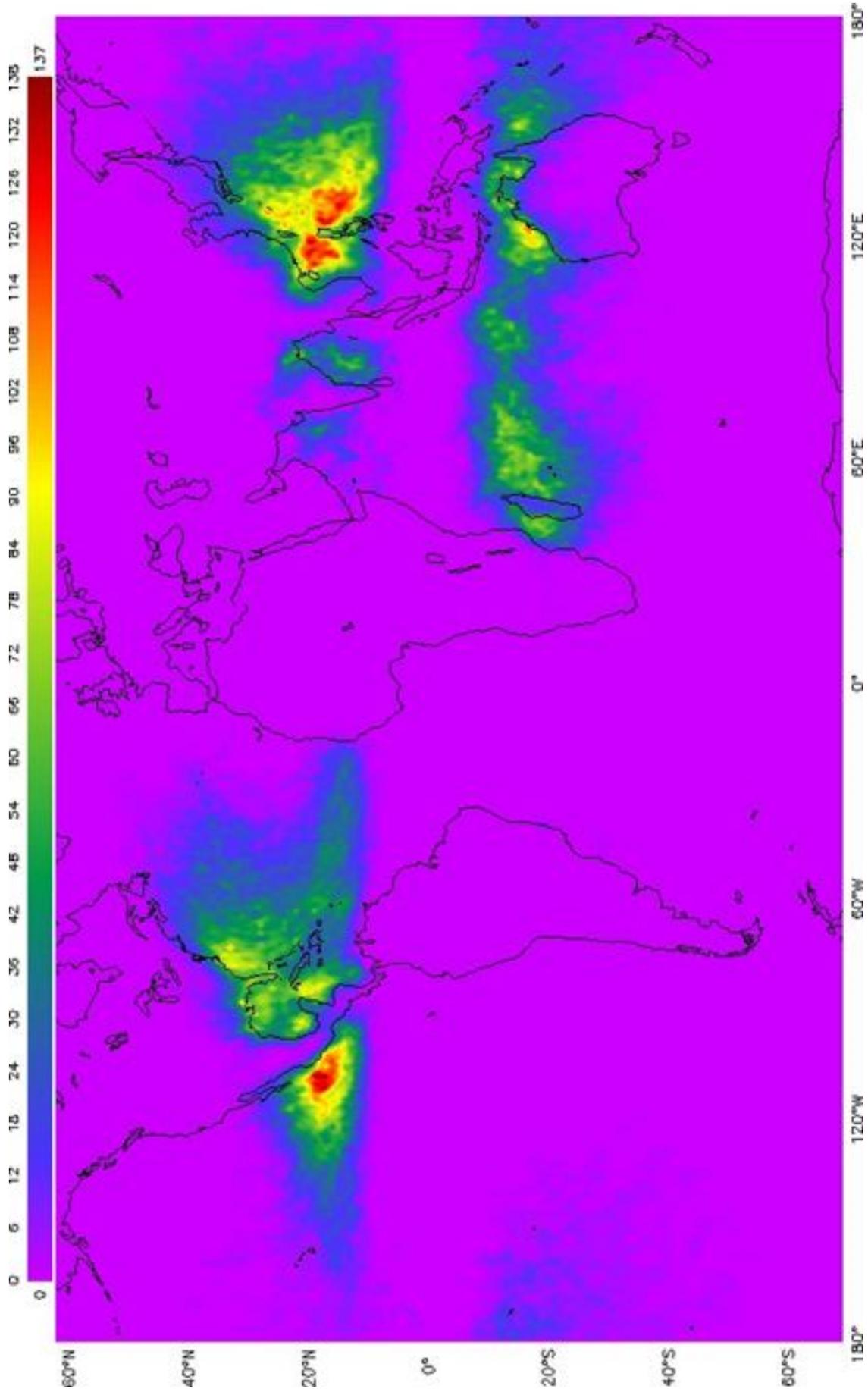


Box Plots



Scatter Plots







Student Data Sheet

Student Name:

Date:

Period:

Claim: (One sentence statement that addresses the driving question: ***Which data display is most useful for determining the risk of a tropical cyclone in a given area and preparing an effective emergency plan?***)

Evidence: Sufficient, Appropriate, and Observation Driven	Reasoning: (Why is this evidence important?)
Map Image 1. 2. 3.	Map Image 1. 2. 3.
Histogram 1. 2. 3.	Histogram 1. 2. 3.
Box Plot 1. 2. 3.	Box Plot 1. 2. 3.
Scatter Plot 1. 2. 3.	Scatter Plot 1. 2. 3.



C-E-R Rubric

Student Name:

Date:

Period:

Description	3 Points	2 Points	1 Point	0 Points
Claim	Makes an accurate and complete statement linking the functions of the data displays to the conclusion.	Makes an accurate but incomplete claim addressing only one type of data display.	Makes an inaccurate claim.	Does not make a claim.
Evidence	Provides sufficient evidence to support claim using qualitative and quantitative observations of the displays and their uses.	Provides appropriate but insufficient evidence to support claim.	Provides inappropriate evidence. The evidence does not support the claim.	Does not provide evidence.
Reasoning	Provides reasoning that connects each piece of evidence to the claim. Uses data analysis skills to explain why the evidence supports the claim.	Provides appropriate but incomplete reasoning. Each piece of evidence is not supported by a line of reasoning.	Provides inappropriate reasoning.	Does not provide reasoning.
Total				

C-E-R Rubric

Student Name:

Date:

Period:

Description	3 Points	2 Points	1 Point	0 Points
Claim	Makes an accurate and complete statement linking the functions of the data displays to the conclusion.	Makes an accurate but incomplete claim addressing only one type of data display.	Makes an inaccurate claim.	Does not make a claim.
Evidence	Provides sufficient evidence to support claim using qualitative and quantitative observations of the displays and their uses.	Provides appropriate but insufficient evidence to support claim.	Provides inappropriate evidence. The evidence does not support the claim.	Does not provide evidence.
Reasoning	Provides reasoning that connects each piece of evidence to the claim. Uses data analysis skills to explain why the evidence supports the claim.	Provides appropriate but incomplete reasoning. Each piece of evidence is not supported by a line of reasoning.	Provides inappropriate reasoning.	Does not provide reasoning.
Total				



Data for Optional Graphing

125 Degrees East		125 Degrees West	
Latitude North	Number of Tropical Cyclones	Latitude North	Number of Tropical Cyclones
0	0	0	0
1	0	1	0
2	0	2	0
3	0	3	0
4	0	4	0
5	0	5	0
6	1	6	0
7	3	7	0
8	2	8	0
9	8	9	1
10	35	10	3
11	46	11	9
12	57	12	14
13	66	13	23
14	72	14	44
15	97	15	51
16	124	16	50
17	114	17	41
18	134	18	54
19	101	19	36
20	83	20	44
21	90	21	34
22	99	22	33
23	91	23	20
24	84	24	15
25	83	25	13
26	79	26	6
27	54	27	5
28	47	28	4
29	39	29	2
30	27	30	2
31	23	31	4
32	13	32	1
33	24	33	0
34	17	34	0
35	13	35	0
36	10	36	0
37	11	37	0
38	5	38	0
39	14	39	0
40	4	40	0