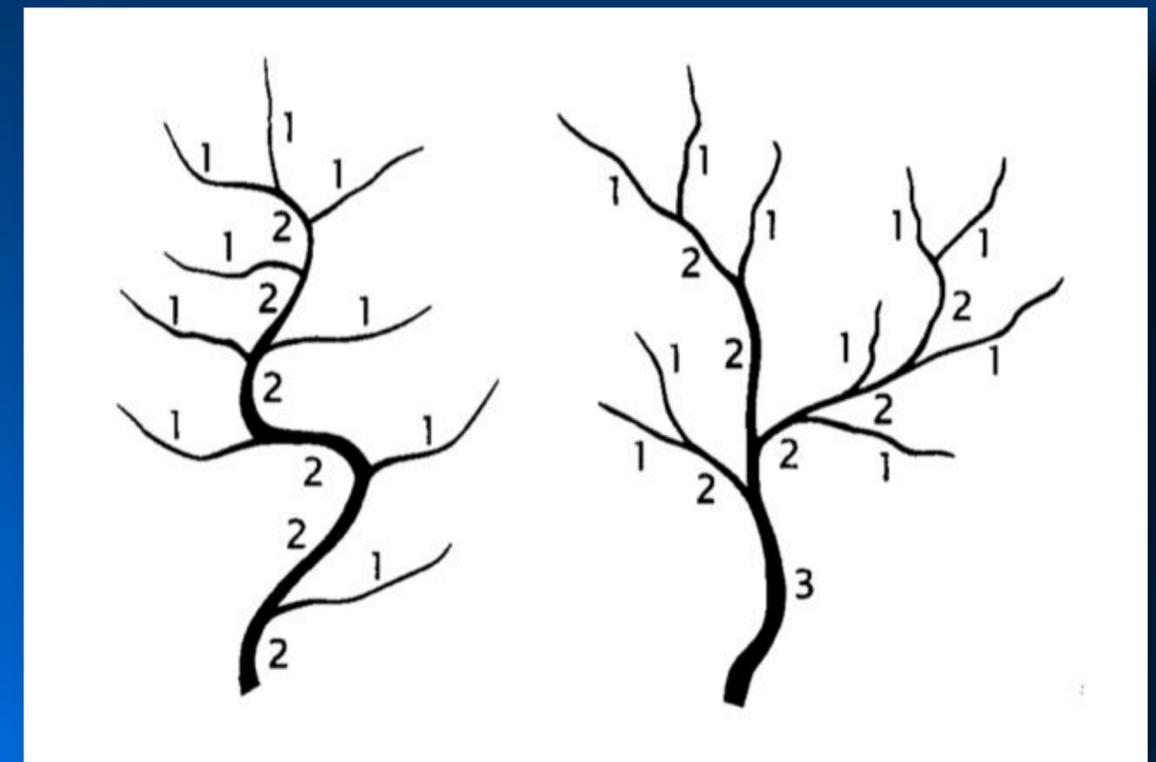
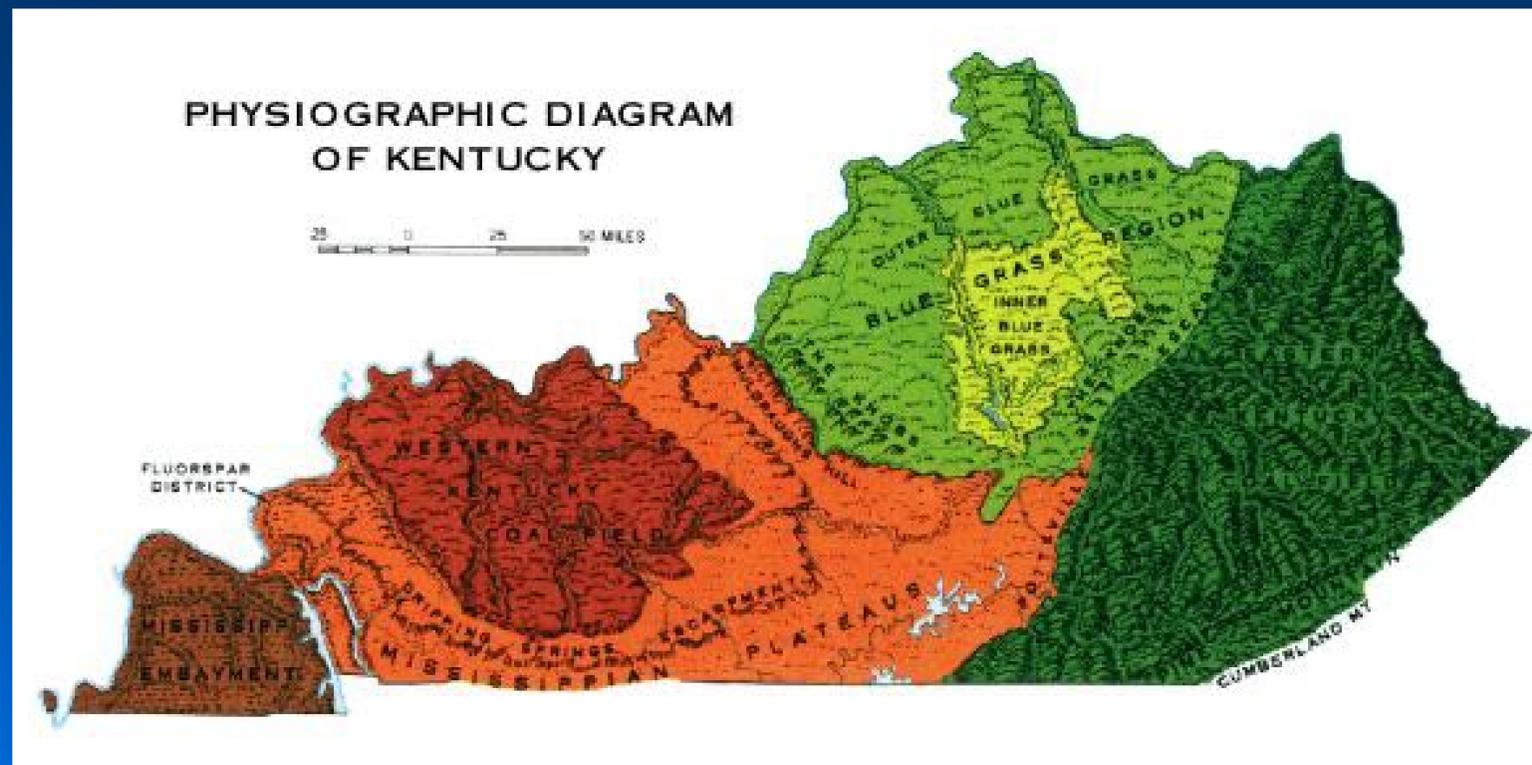


Lab Practical Assignment I

Kentucky Dataset

Dataset consisting of seven variables measured on the forms of 50 stream drainage basins collected from the eastern part of the US state of Kentucky. Original reference: Krumbein and Shreve (1970).



Lab Practical Assignment I

Kentucky Dataset

Kentucky

Basin No.	Group	Basin Magnitude	Outlet Elevation	Basin Relief	Basin Area	Stream Length	Drainage Density	Basin Shape
1	Kentucky Basins	14	720	570	7	154	2200	61
2	Kentucky Basins	6	670	610	3	80	2667	62
3	Kentucky Basins	5	860	550	11	84	763	62
4	Kentucky Basins	7	870	610	11	122	1110	63
5	Kentucky Basins	11	730	570	14	185	1321	52
6	Kentucky Basins	14	690	590	12	200	1667	50
7	Kentucky Basins	12	880	640	11	170	1545	41
8	Kentucky Basins	18	760	690	28	340	1215	57
9	Kentucky Basins	6	820	600	5	100	2000	41
10	Kentucky Basins	5	720	480	3	80	2667	60
11	Kentucky Basins	17	670	670	19	290	1526	51
12	Kentucky Basins	5	660	600	5	90	1800	53
13	Kentucky Basins	22	830	660	18	260	1444	57
14	Kentucky Basins	7	780	620	17	111	652	57
15	Kentucky Basins	15	750	740	15	184	1227	67
16	Kentucky Basins	17	770	630	21	227	1080	59

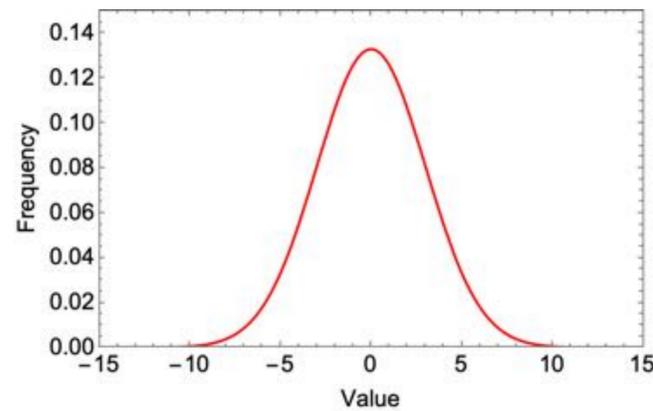
Lab Practical Assignment I

- Open the Kentucky.dat datafile in the PAST program or the Kentucky.csv file in another mathematical application (e.g., MS-Excel, Mathematica™, MatLab™).
- Create 10-bin histograms for all seven variables. (60 points)
 - Identify the variable whose distribution most closely resembles a normal distribution. Be sure to justify your answer. (10 points)
 - Create scatterplots for the following variable pairs. (40 points)
 - Basin Magnitude vs. Basin Relief
 - Basin Magnitude vs. Basin Area
 - Basin Relief vs. Stream Length
 - Basin Area vs. Drainage Density
 - Characterize each scatterplot using the following categories: wide scatter, narrow scatter, boundary-constrained scatter, categorical scatter, homoscedastic scatter, heteroscedastic scatter. Remember each scatterplot involves two variables. (40 points)

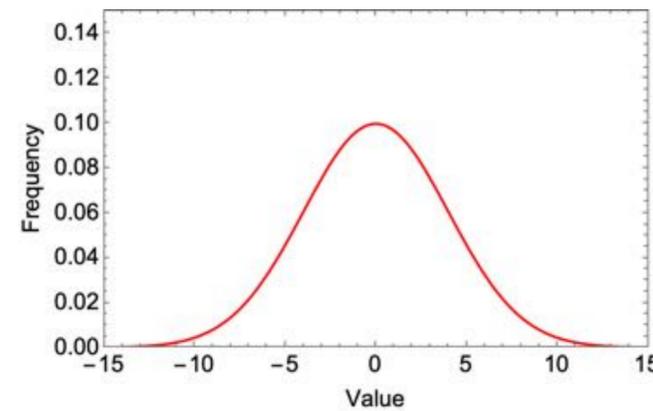
Statistics as Data Analysis

Describing Patterns of Variation

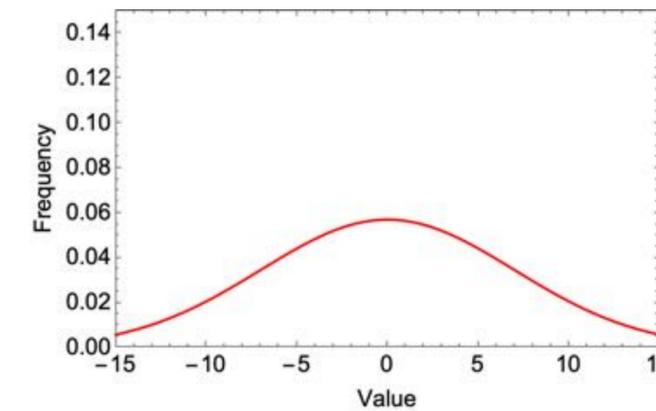
Low Variance



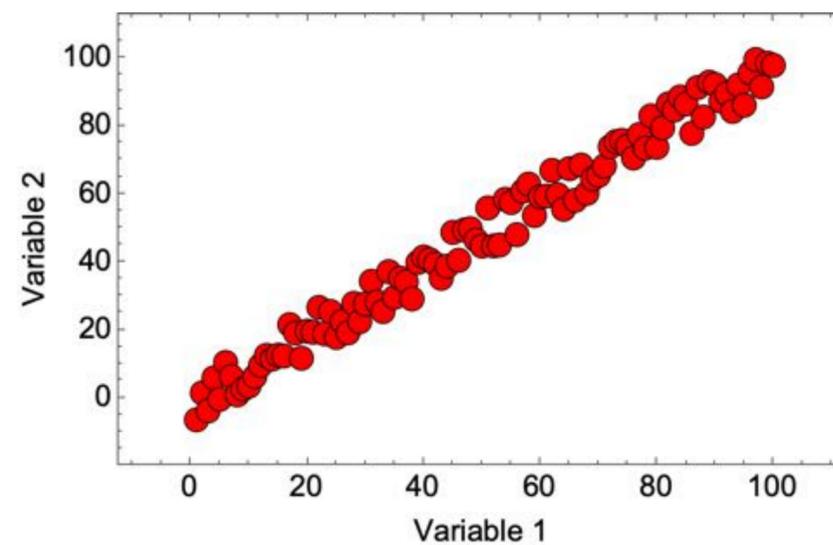
Medium Variance



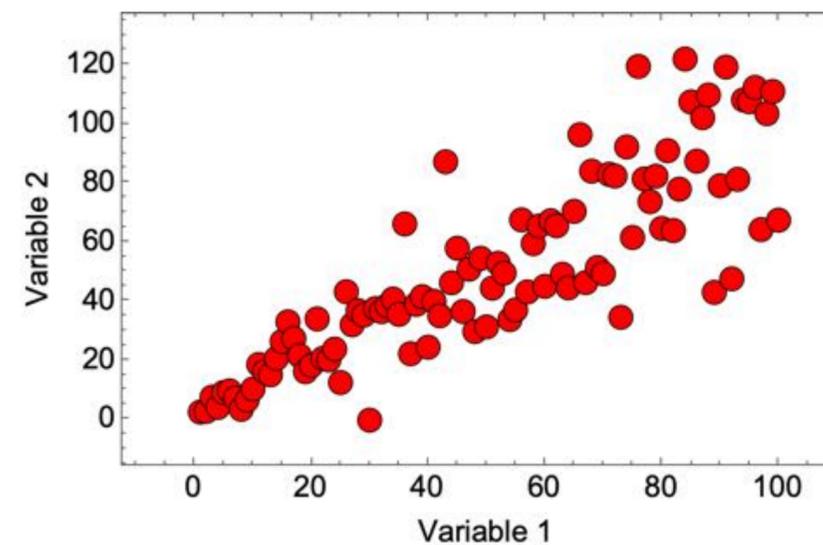
High Variance



Homoscedastic Variables

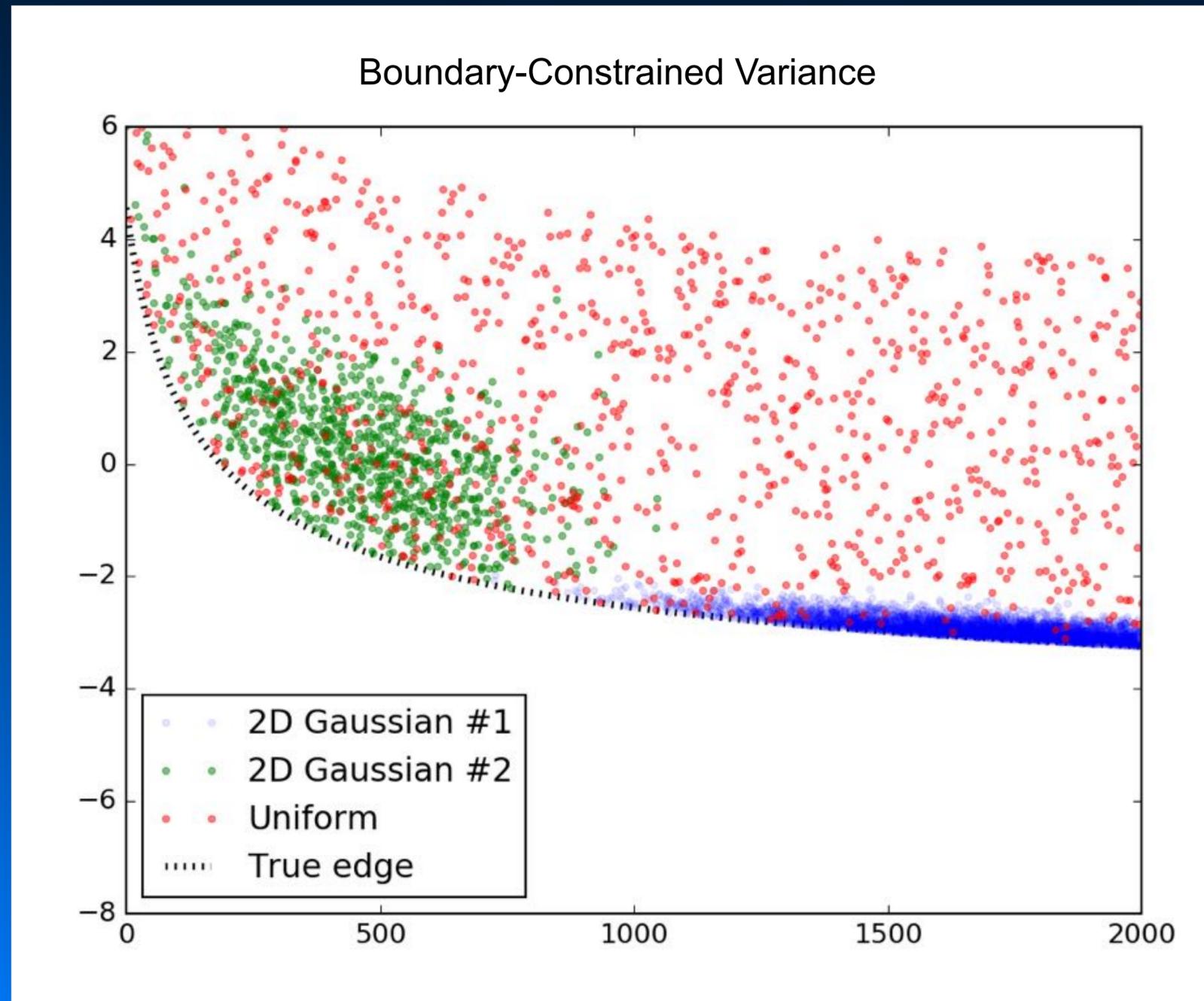


Heteroscedastic Variables



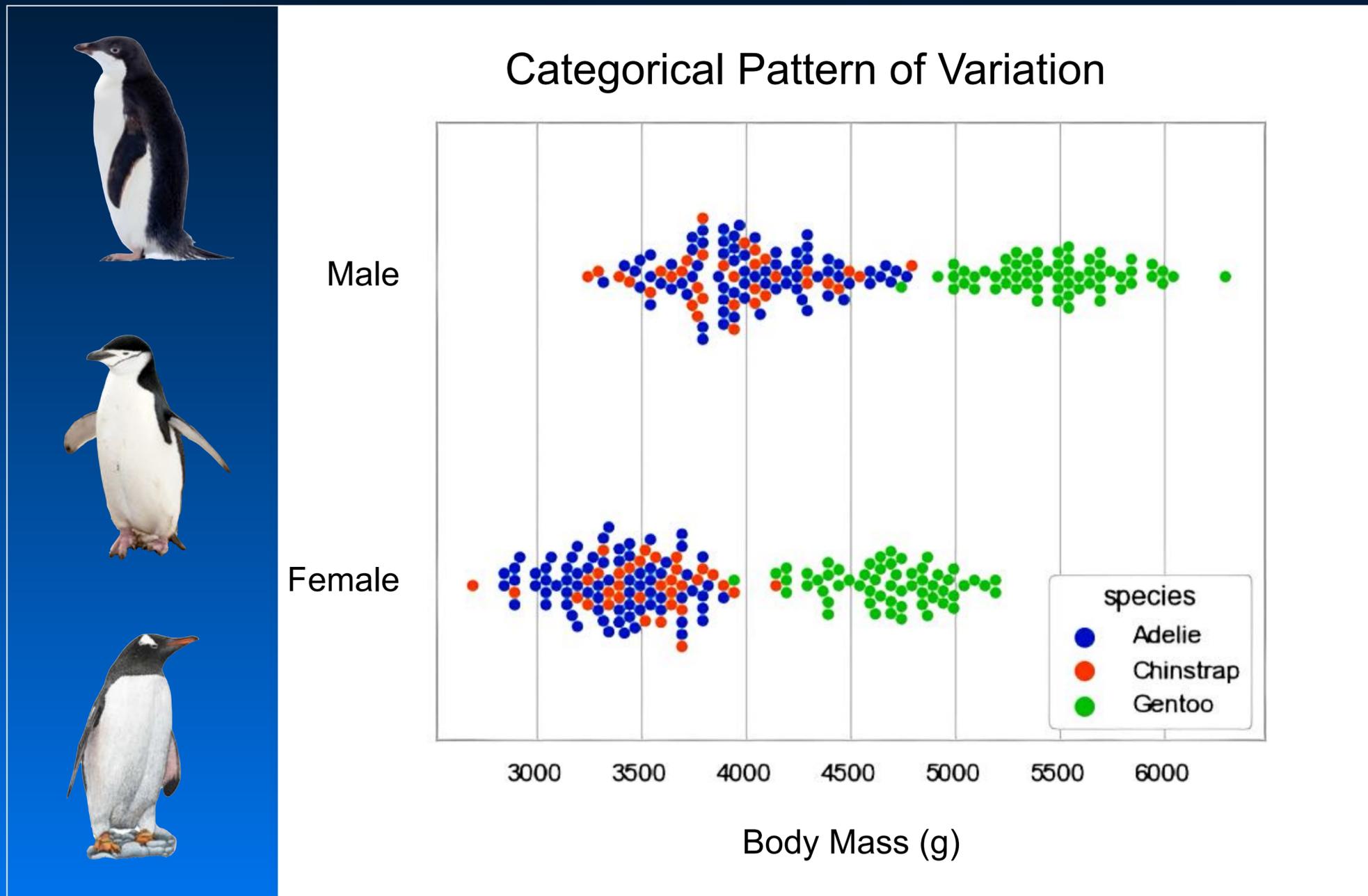
Statistics as Data Analysis

Describing Patterns of Variation



Statistics as Data Analysis

Describing Patterns of Variation



Lab Practical Assignment I

- Create a 3D scatterplot of the Outlet Elevation, Stream Length and Drainage Density variables. (10 points)
 - Describe the geometric relations among the basins. Are there any clusters? If so identify them. (30 points)
- For each variable, list or calculate the following parameters and present these summaries in the form of a table: maximum value, arithmetic mean, geometric mean, median, minimum value, range of observations, variance, standard deviation, coefficient of variation. (20 points)
- Using the table you created above, answer the following questions. (35 points)
 - Variable with the greatest range?
 - Variable with the smallest range?
 - Variable with the greatest difference between its arithmetic and geometric mean?
 - Variable with the greatest variance?
 - Variable with the least variance?
 - Variable with the greatest variability?
 - Variable with the least variability?

Lab Practical Assignment I

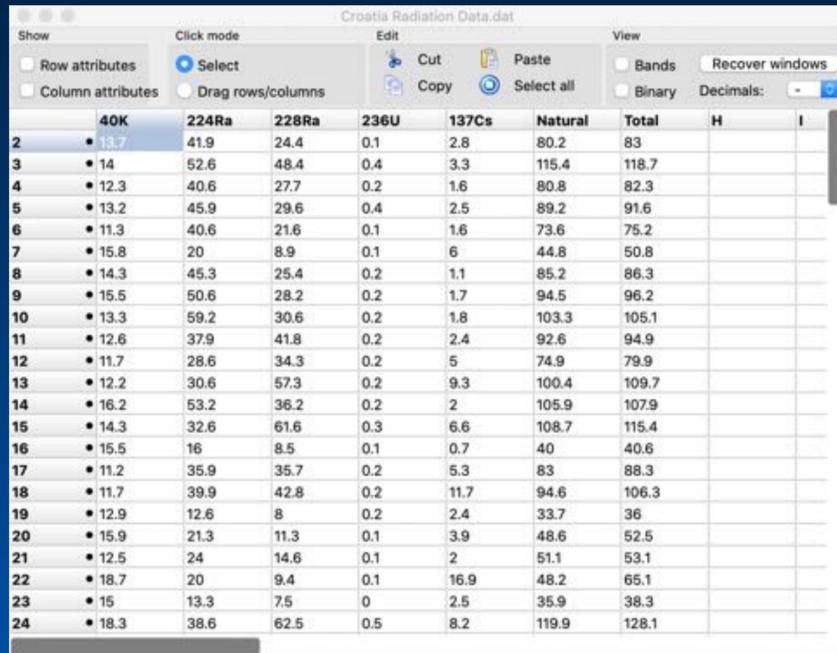
- Create ternary density plots of the following variable triplets. (30 points)
 - Outlet Elevation, Basin Relief, Stream Length
 - Basin Magnitude, Basin Area, Basin Shape
 - Basin Magnitude, Basin Area, Stream Length
 - Using the plots you created above, identify any evidence for data clustering and provide an interpretation for the patterns seen in the plots (in terms of the influence of different variables. (20 points)
- Make a network plot of the first ten basins using all variables. (10 points)
 - Based on the plot you created above, along with the data table, identify and explain your reasoning for the following identifications. List all basins with equivalent characteristics. (30 points)
 - Most distinct basin.
 - Least distinct basin.
 - Set of most similar basins.

Total = 335 points

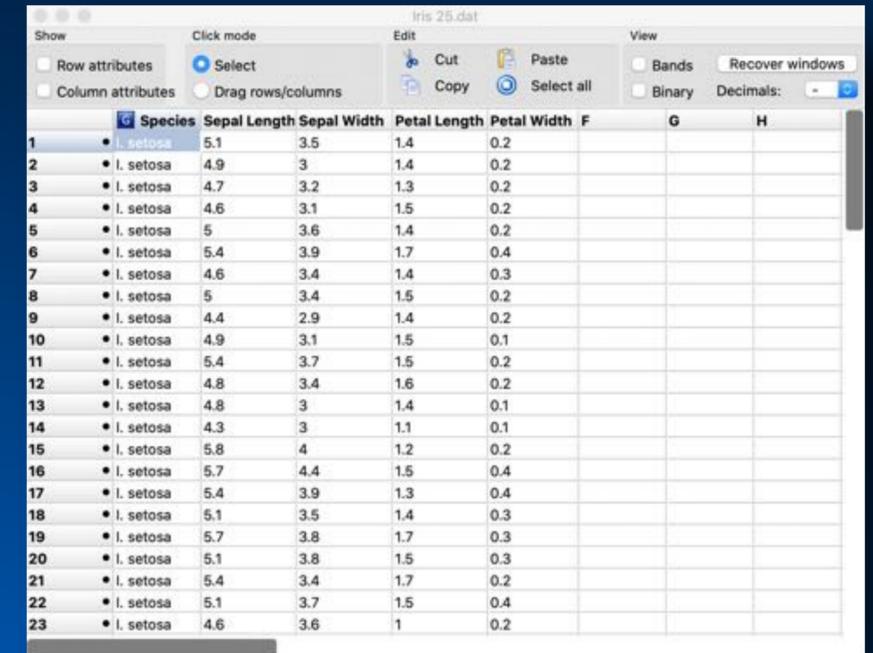
Introduction to Statistics & Data Analysis in *PAST*

Prof. Norman MacLeod

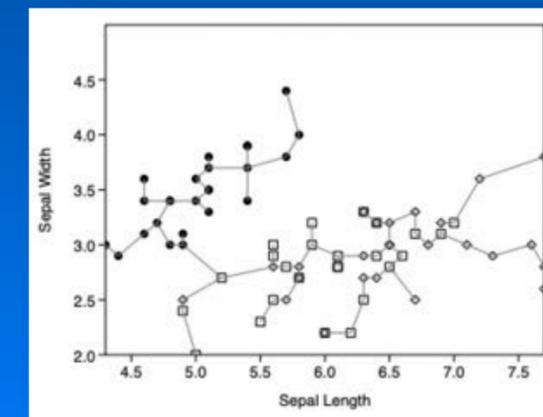
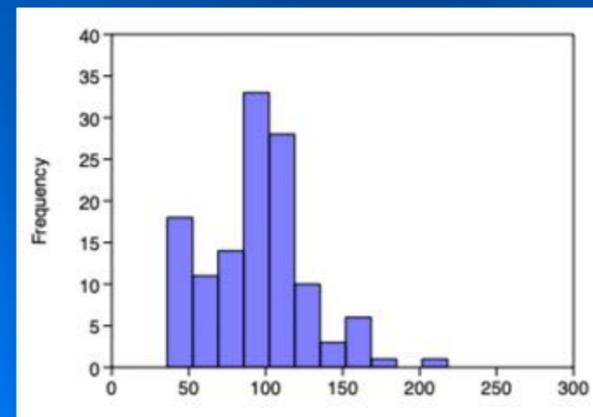
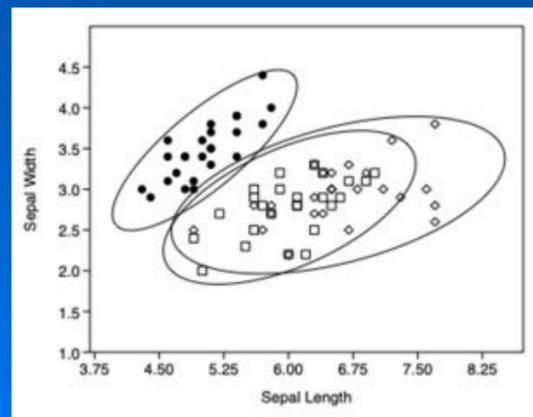
School of Earth Sciences & Engineering, Nanjing University



	40K	224Ra	228Ra	236U	137Cs	Natural	Total	H	I
2	13.7	41.9	24.4	0.1	2.8	80.2	83		
3	14	52.6	48.4	0.4	3.3	115.4	118.7		
4	12.3	40.6	27.7	0.2	1.6	80.8	82.3		
5	13.2	45.9	29.6	0.4	2.5	89.2	91.6		
6	11.3	40.6	21.6	0.1	1.6	73.6	75.2		
7	15.8	20	8.9	0.1	6	44.8	50.8		
8	14.3	45.3	25.4	0.2	1.1	85.2	86.3		
9	15.5	50.6	28.2	0.2	1.7	94.5	96.2		
10	13.3	59.2	30.6	0.2	1.8	103.3	105.1		
11	12.6	37.9	41.8	0.2	2.4	92.6	94.9		
12	11.7	28.6	34.3	0.2	5	74.9	79.9		
13	12.2	30.6	57.3	0.2	9.3	100.4	109.7		
14	16.2	53.2	36.2	0.2	2	105.9	107.9		
15	14.3	32.6	61.6	0.3	6.6	108.7	115.4		
16	15.5	16	8.5	0.1	0.7	40	40.6		
17	11.2	35.9	35.7	0.2	5.3	83	88.3		
18	11.7	39.9	42.8	0.2	11.7	94.6	106.3		
19	12.9	12.6	8	0.2	2.4	33.7	36		
20	15.9	21.3	11.3	0.1	3.9	48.6	52.5		
21	12.5	24	14.6	0.1	2	51.1	53.1		
22	18.7	20	9.4	0.1	16.9	48.2	65.1		
23	15	13.3	7.5	0	2.5	35.9	38.3		
24	18.3	38.6	62.5	0.5	8.2	119.9	128.1		



	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
1	i. setosa	5.1	3.5	1.4	0.2			
2	i. setosa	4.9	3	1.4	0.2			
3	i. setosa	4.7	3.2	1.3	0.2			
4	i. setosa	4.6	3.1	1.5	0.2			
5	i. setosa	5	3.6	1.4	0.2			
6	i. setosa	5.4	3.9	1.7	0.4			
7	i. setosa	4.6	3.4	1.4	0.3			
8	i. setosa	5	3.4	1.5	0.2			
9	i. setosa	4.4	2.9	1.4	0.2			
10	i. setosa	4.9	3.1	1.5	0.1			
11	i. setosa	5.4	3.7	1.5	0.2			
12	i. setosa	4.8	3.4	1.6	0.2			
13	i. setosa	4.8	3	1.4	0.1			
14	i. setosa	4.3	3	1.1	0.1			
15	i. setosa	5.8	4	1.2	0.2			
16	i. setosa	5.7	4.4	1.5	0.4			
17	i. setosa	5.4	3.9	1.3	0.4			
18	i. setosa	5.1	3.5	1.4	0.3			
19	i. setosa	5.7	3.8	1.7	0.3			
20	i. setosa	5.1	3.8	1.5	0.3			
21	i. setosa	5.4	3.4	1.7	0.2			
22	i. setosa	5.1	3.7	1.5	0.4			
23	i. setosa	4.6	3.6	1	0.2			



PAleontological STatistics (PAST)

The PAST Website

Read more about how the University of Oslo processes personal information, your privacy rights at UiO and why we use cookies. 

Home UiO > Natural History Museum

For employees Norwegian website

 **UiO : Natural History Museum**

Home Visiting Research and collections About the museum

[< Research infrastructure](#)

Past 4 - the Past of the Future

Past is free software for scientific data analysis, with functions for data manipulation, plotting, univariate and multivariate statistics, ecological analysis, time series and spatial analysis, morphometrics and stratigraphy.

Past went through a complete redesign with version 3 in 2013. In 2020, version 4 was released with 64-bit support.

Past works under Windows 10, 8 and 7, and Mac OSX Catalina, Mojave, High Sierra, Sierra.

Current version (January 2021): 4.05 (mac-version under construction)



<https://www.nhm.uio.no/english/research/resources/past/>

Paleontological Statistics (PAST)

The PAST Website

Downloads

[Windows, zipped exe, version 4.05 \(8 MB, 64-bit\)](#)

Note: Firefox may cause problems with the download, use Chrome

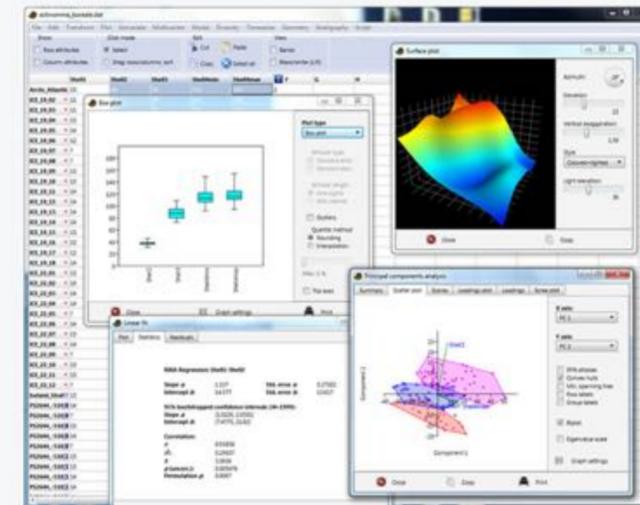
[Windows, zipped exe, version 4.04 \(8 MB, 64-bit\)](#)

Note: Firefox may cause problems with the download, use Chrome

[Mac, version 4.04 \(10 MB, 64-bit\)](#) (There are problems with recent MacOS versions blocking this program. We are working on a fix)

Note: First time you run Past you must Control-click on the Past app and select Open to override security settings

[Manual \(PDF, 8 MB\)](#)



Resources

[Frequently Asked Questions](#)

[Terms, reference, etc.](#)

[Help articles](#)

[Version history](#)

User forums

Facebook: <https://www.facebook.com/groups/837497710381423>

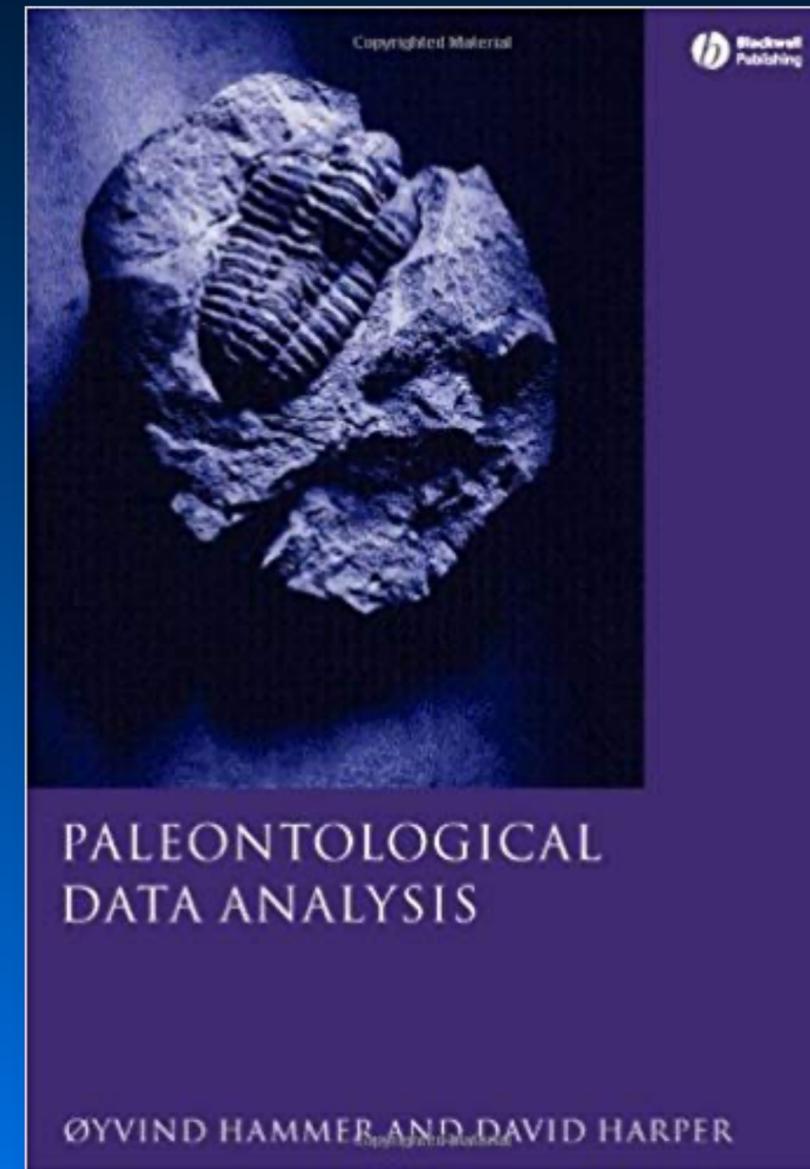
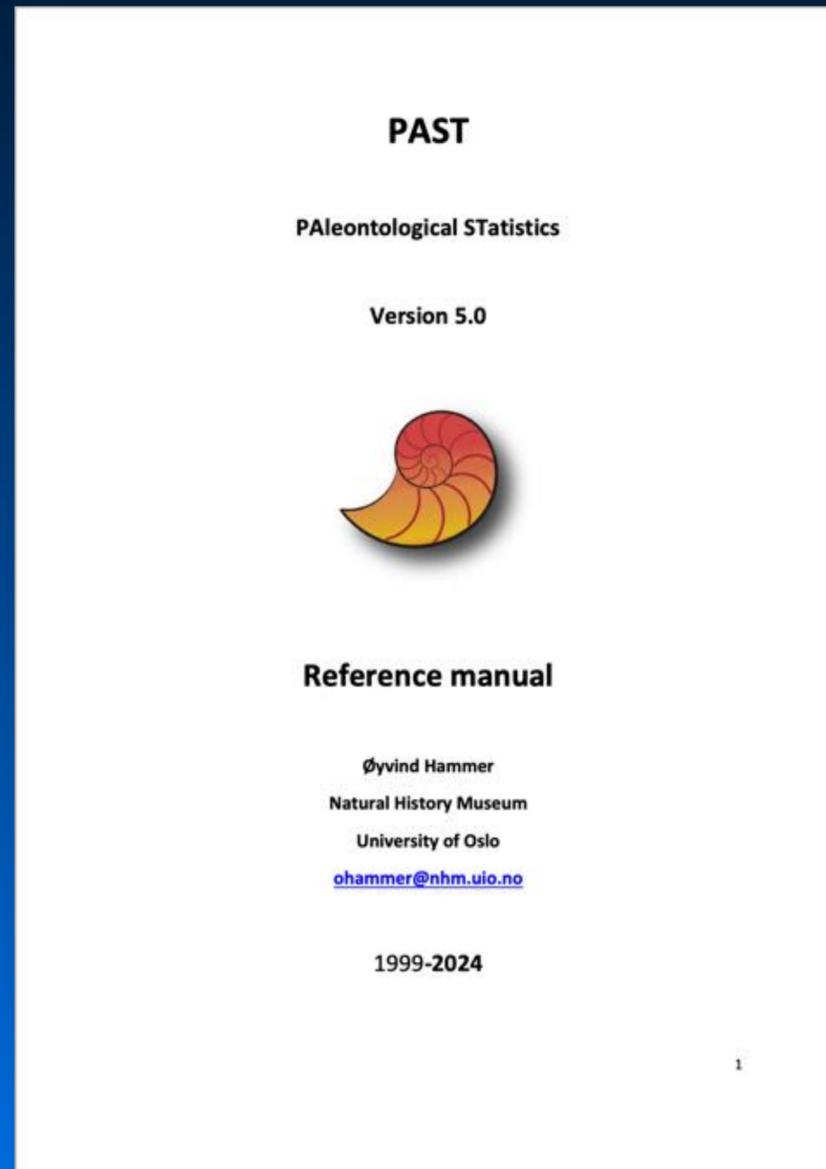
Reddit: https://www.reddit.com/r/past_uio/

Groups.io: <https://groups.io/g/past>

[Sign up for the PAST mailing list](#) →

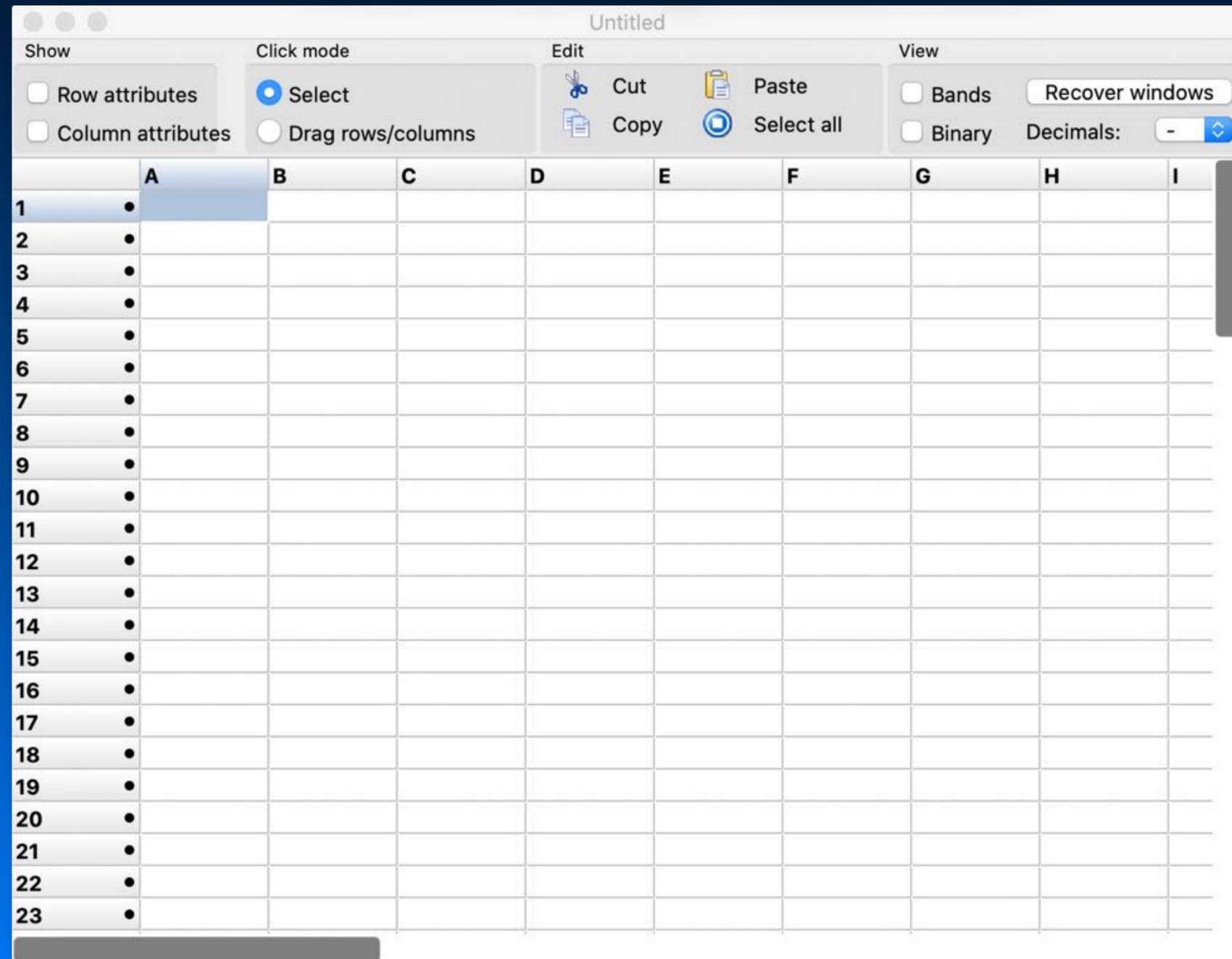
Paleontological Statistics (PAST)

PAST References



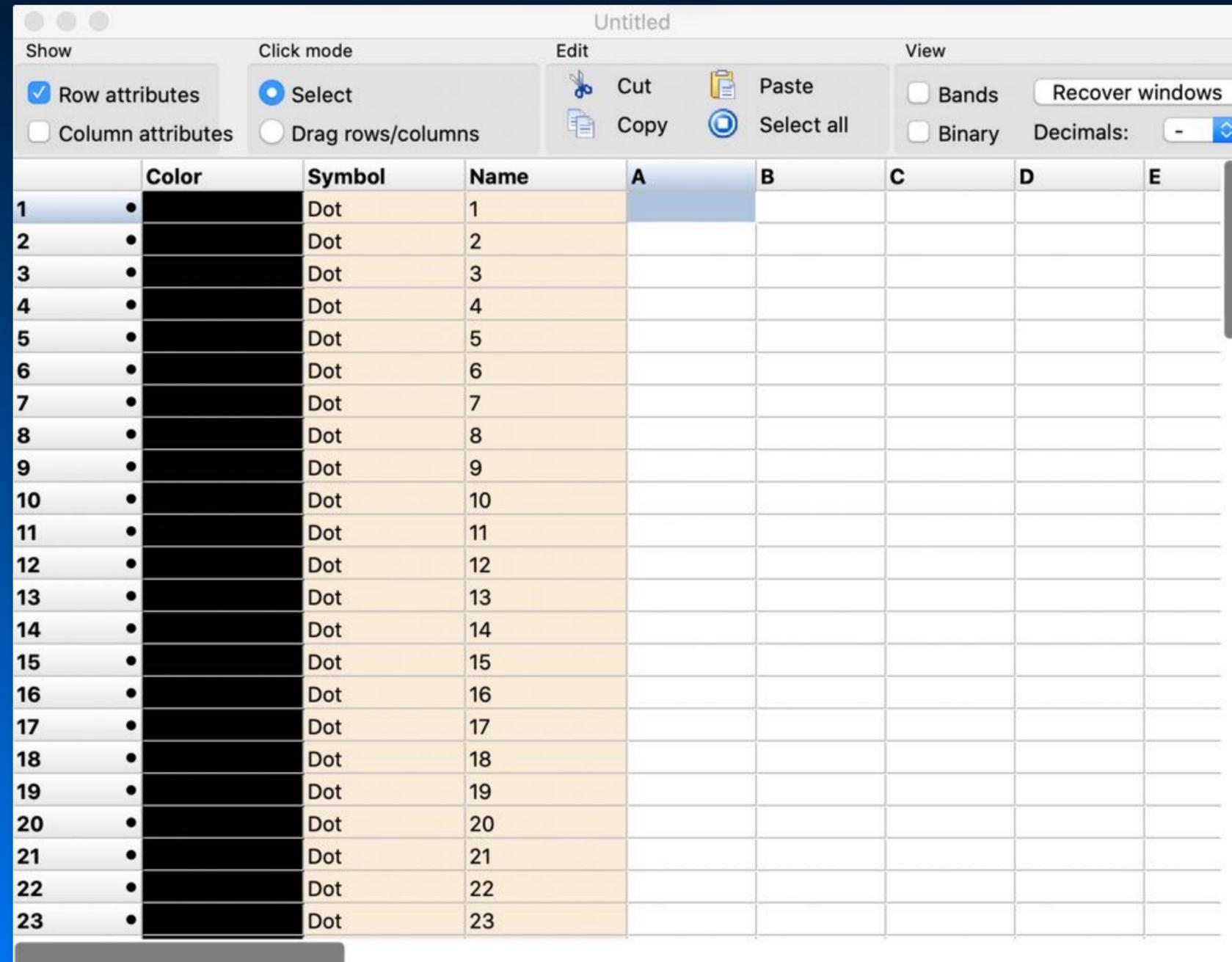
Paleontological Statistics (PAST)

The PAST Spreadsheet



Paleontological Statistics (PAST)

The PAST Spreadsheet



The screenshot shows the PAST spreadsheet interface. The window title is "Untitled". The interface includes a menu bar with "Show", "Click mode", "Edit", and "View".

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

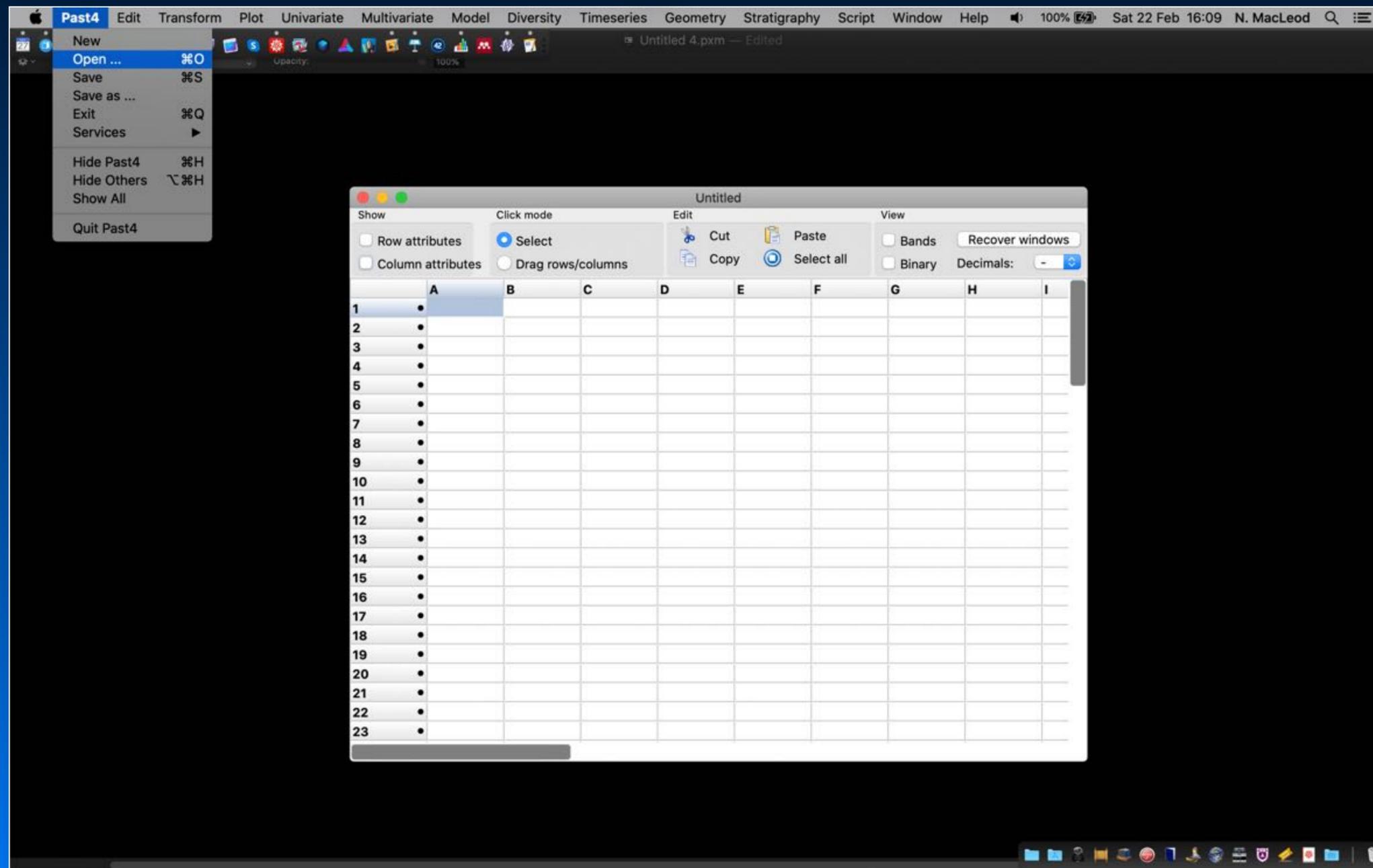
Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	Color	Symbol	Name	A	B	C	D	E
1	•	Dot	1					
2	•	Dot	2					
3	•	Dot	3					
4	•	Dot	4					
5	•	Dot	5					
6	•	Dot	6					
7	•	Dot	7					
8	•	Dot	8					
9	•	Dot	9					
10	•	Dot	10					
11	•	Dot	11					
12	•	Dot	12					
13	•	Dot	13					
14	•	Dot	14					
15	•	Dot	15					
16	•	Dot	16					
17	•	Dot	17					
18	•	Dot	18					
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23	•	Dot	23					

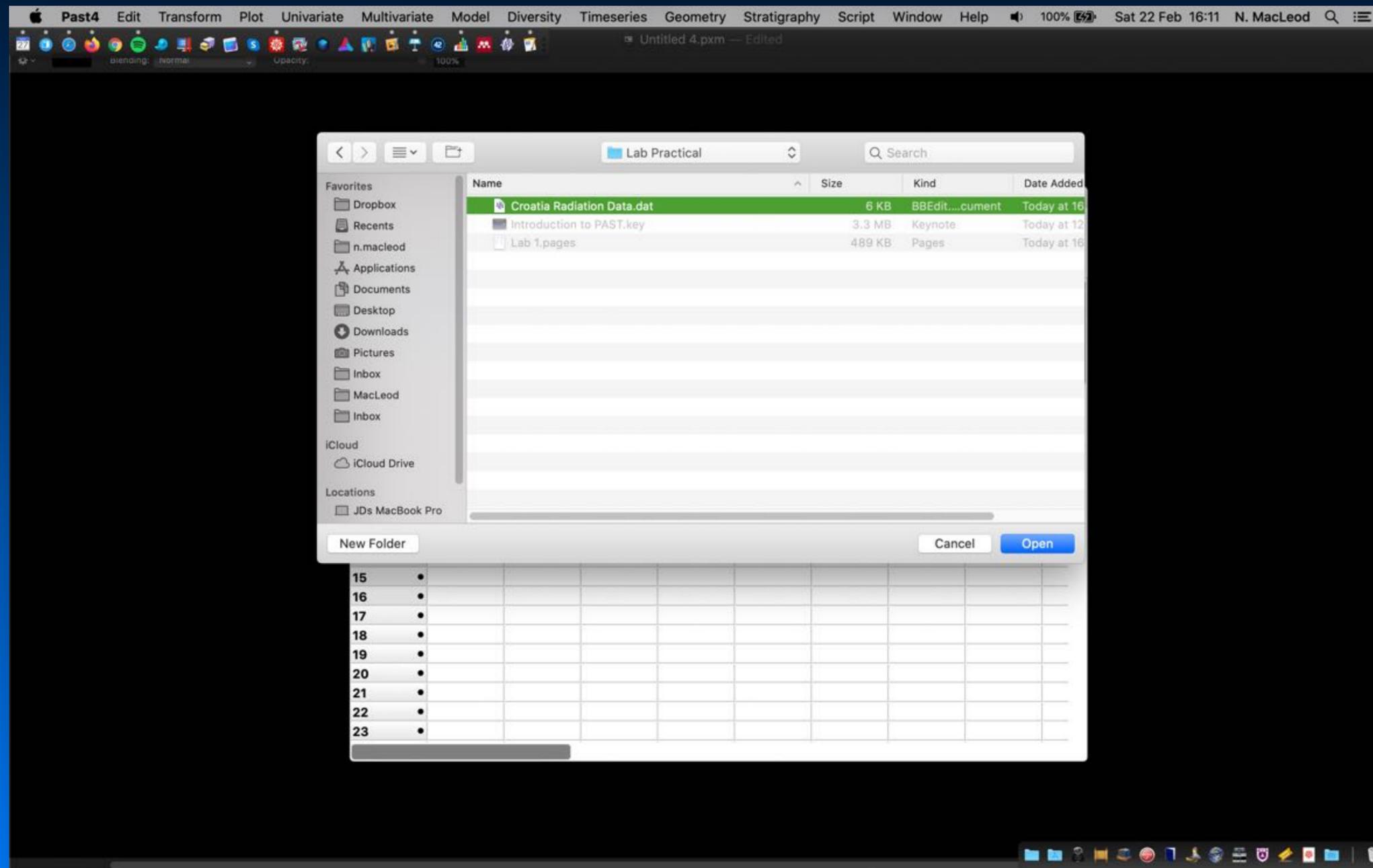
Paleontological Statistics (PAST)

Reading in a Datafile



Paleontological Statistics (PAST)

Reading in a Datafile



Paleontological Statistics (PAST)

Reading in a Datafile

Croatia Radiation Data.dat

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	40K	224Ra	228Ra	236U	137Cs	Natural	Total	H	I
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83		
3	• 14	52.6	48.4	0.4	3.3	115.4	118.7		
4	• 12.3	40.6	27.7	0.2	1.6	80.8	82.3		
5	• 13.2	45.9	29.6	0.4	2.5	89.2	91.6		
6	• 11.3	40.6	21.6	0.1	1.6	73.6	75.2		
7	• 15.8	20	8.9	0.1	6	44.8	50.8		
8	• 14.3	45.3	25.4	0.2	1.1	85.2	86.3		
9	• 15.5	50.6	28.2	0.2	1.7	94.5	96.2		
10	• 13.3	59.2	30.6	0.2	1.8	103.3	105.1		
11	• 12.6	37.9	41.8	0.2	2.4	92.6	94.9		
12	• 11.7	28.6	34.3	0.2	5	74.9	79.9		
13	• 12.2	30.6	57.3	0.2	9.3	100.4	109.7		
14	• 16.2	53.2	36.2	0.2	2	105.9	107.9		
15	• 14.3	32.6	61.6	0.3	6.6	108.7	115.4		
16	• 15.5	16	8.5	0.1	0.7	40	40.6		
17	• 11.2	35.9	35.7	0.2	5.3	83	88.3		
18	• 11.7	39.9	42.8	0.2	11.7	94.6	106.3		
19	• 12.9	12.6	8	0.2	2.4	33.7	36		
20	• 15.9	21.3	11.3	0.1	3.9	48.6	52.5		
21	• 12.5	24	14.6	0.1	2	51.1	53.1		
22	• 18.7	20	9.4	0.1	16.9	48.2	65.1		
23	• 15	13.3	7.5	0	2.5	35.9	38.3		
24	• 18.3	38.6	62.5	0.5	8.2	119.9	128.1		

Paleontological Statistics (PAST)

Naming Variables

Croatia Radiation Data.dat

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	Potassium 40	224Ra	228Ra	236U	137Cs	Natural	Total	H	I
Type	-	-	-	-	-	-	-	-	-
Name	Potassium 40	224Ra	228Ra	236U	137Cs	Natural	Total	H	I
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83		
3	• 14	52.6	48.4	0.4	3.3	115.4	118.7		
4	• 12.3	40.6	27.7	0.2	1.6	80.8	82.3		
5	• 13.2	45.9	29.6	0.4	2.5	89.2	91.6		
6	• 11.3	40.6	21.6	0.1	1.6	73.6	75.2		
7	• 15.8	20	8.9	0.1	6	44.8	50.8		
8	• 14.3	45.3	25.4	0.2	1.1	85.2	86.3		
9	• 15.5	50.6	28.2	0.2	1.7	94.5	96.2		
10	• 13.3	59.2	30.6	0.2	1.8	103.3	105.1		
11	• 12.6	37.9	41.8	0.2	2.4	92.6	94.9		
12	• 11.7	28.6	34.3	0.2	5	74.9	79.9		
13	• 12.2	30.6	57.3	0.2	9.3	100.4	109.7		
14	• 16.2	53.2	36.2	0.2	2	105.9	107.9		
15	• 14.3	32.6	61.6	0.3	6.6	108.7	115.4		
16	• 15.5	16	8.5	0.1	0.7	40	40.6		
17	• 11.2	35.9	35.7	0.2	5.3	83	88.3		
18	• 11.7	39.9	42.8	0.2	11.7	94.6	106.3		
19	• 12.9	12.6	8	0.2	2.4	33.7	36		
20	• 15.9	21.3	11.3	0.1	3.9	48.6	52.5		
21	• 12.5	24	14.6	0.1	2	51.1	53.1		
22	• 18.7	20	9.4	0.1	16.9	48.2	65.1		

Paleontological Statistics (PAST)

Naming Variables

Croatia Radiation Data.dat

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
Type	-	-	-	-	-	-	-	-
Name	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83	
3	• 14	52.6	48.4	0.4	3.3	115.4	118.7	
4	• 12.3	40.6	27.7	0.2	1.6	80.8	82.3	
5	• 13.2	45.9	29.6	0.4	2.5	89.2	91.6	
6	• 11.3	40.6	21.6	0.1	1.6	73.6	75.2	
7	• 15.8	20	8.9	0.1	6	44.8	50.8	
8	• 14.3	45.3	25.4	0.2	1.1	85.2	86.3	
9	• 15.5	50.6	28.2	0.2	1.7	94.5	96.2	
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13	• 12.2	30.6	57.3	0.2	9.3	100.4	109.7	
14	• 16.2	53.2	36.2	0.2	2	105.9	107.9	
15	• 14.3	32.6	61.6	0.3	6.6	108.7	115.4	
16	• 15.5	16	8.5	0.1	0.7	40	40.6	
17	• 11.2	35.9	35.7	0.2	5.3	83	88.3	
18	• 11.7	39.9	42.8	0.2	11.7	94.6	106.3	
19	• 12.9	12.6	8	0.2	2.4	33.7	36	
20	• 15.9	21.3	11.3	0.1	3.9	48.6	52.5	
21	• 12.5	24	14.6	0.1	2	51.1	53.1	
22	• 18.7	20	9.4	0.1	16.9	48.2	65.1	

Paleontological Statistics (PAST)

Selecting Variables (Columns)

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The "Potassium 40" column is selected, indicated by a blue dot in each row. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options.

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83	
3	• 14	52.6	48.4	0.4	3.3	115.4	118.7	
4	• 12.3	40.6	27.7	0.2	1.6	80.8	82.3	
5	• 13.2	45.9	29.6	0.4	2.5	89.2	91.6	
6	• 11.3	40.6	21.6	0.1	1.6	73.6	75.2	
7	• 15.8	20	8.9	0.1	6	44.8	50.8	
8	• 14.3	45.3	25.4	0.2	1.1	85.2	86.3	
9	• 15.5	50.6	28.2	0.2	1.7	94.5	96.2	
10	• 13.3	59.2	30.6	0.2	1.8	103.3	105.1	
11	• 12.6	37.9	41.8	0.2	2.4	92.6	94.9	
12	• 11.7	28.6	34.3	0.2	5	74.9	79.9	
13	• 12.2	30.6	57.3	0.2	9.3	100.4	109.7	
14	• 16.2	53.2	36.2	0.2	2	105.9	107.9	
15	• 14.3	32.6	61.6	0.3	6.6	108.7	115.4	
16	• 15.5	16	8.5	0.1	0.7	40	40.6	
17	• 11.2	35.9	35.7	0.2	5.3	83	88.3	
18	• 11.7	39.9	42.8	0.2	11.7	94.6	106.3	
19	• 12.9	12.6	8	0.2	2.4	33.7	36	
20	• 15.9	21.3	11.3	0.1	3.9	48.6	52.5	
21	• 12.5	24	14.6	0.1	2	51.1	53.1	
22	• 18.7	20	9.4	0.1	16.9	48.2	65.1	
23	• 15	13.3	7.5	0	2.5	35.9	38.3	
24	• 18.3	38.6	62.5	0.5	8.2	119.9	128.1	

Paleontological Statistics (PAST)

Selecting Variables

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The rows are numbered 2 through 24. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options. The "Click mode" menu is open, showing "Select" (selected) and "Drag rows/columns". The "Edit" menu shows "Cut", "Copy", "Paste", and "Select all". The "View" menu shows "Bands", "Binary", and "Recover windows". The "Decimals" dropdown is set to "-".

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83	
3	• 14	52.6	48.4	0.4	3.3	115.4	118.7	
4	• 12.3	40.6	27.7	0.2	1.6	80.8	82.3	
5	• 13.2	45.9	29.6	0.4	2.5	89.2	91.6	
6	• 11.3	40.6	21.6	0.1	1.6	73.6	75.2	
7	• 15.8	20	8.9	0.1	6	44.8	50.8	
8	• 14.3	45.3	25.4	0.2	1.1	85.2	86.3	
9	• 15.5	50.6	28.2	0.2	1.7	94.5	96.2	
10	• 13.3	59.2	30.6	0.2	1.8	103.3	105.1	
11	• 12.6	37.9	41.8	0.2	2.4	92.6	94.9	
12	• 11.7	28.6	34.3	0.2	5	74.9	79.9	
13	• 12.2	30.6	57.3	0.2	9.3	100.4	109.7	
14	• 16.2	53.2	36.2	0.2	2	105.9	107.9	
15	• 14.3	32.6	61.6	0.3	6.6	108.7	115.4	
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17	• 11.2	35.9	35.7	0.2	5.3	83	88.3	
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19	• 12.9	12.6	8	0.2	2.4	33.7	36	
20	• 15.9	21.3	11.3	0.1	3.9	48.6	52.5	
21	• 12.5	24	14.6	0.1	2	51.1	53.1	
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23	• 15	13.3	7.5	0	2.5	35.9	38.3	
24	• 18.3	38.6	62.5	0.5	8.2	119.9	128.1	

Paleontological Statistics (PAST)

Selecting Variables

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The rows are numbered 2 through 24. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options. The "Click mode" menu is open, showing "Select" (selected) and "Drag rows/columns". The "Edit" menu shows "Cut", "Copy", "Paste", and "Select all". The "View" menu shows "Bands", "Binary", and "Recover windows". The "Decimals" dropdown is set to "-".

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
2	• 13.7	41.9	24.4	0.1	2.8	80.2	83	
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Paleontological Statistics (PAST)

Selecting Samples (Rows)

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The rows are numbered 2 to 24. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options. The "Click mode" section has "Select" selected. The "View" section has "Recover windows" and "Decimals" options.

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
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Paleontological Statistics (PAST)

Selecting Samples

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The rows are numbered 2 to 24. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options. The "Click mode" section has "Select" selected. The "View" section has "Bands" and "Binary" options, and a "Recover windows" button. The "Decimals" dropdown is set to "-".

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Paleontological Statistics (PAST)

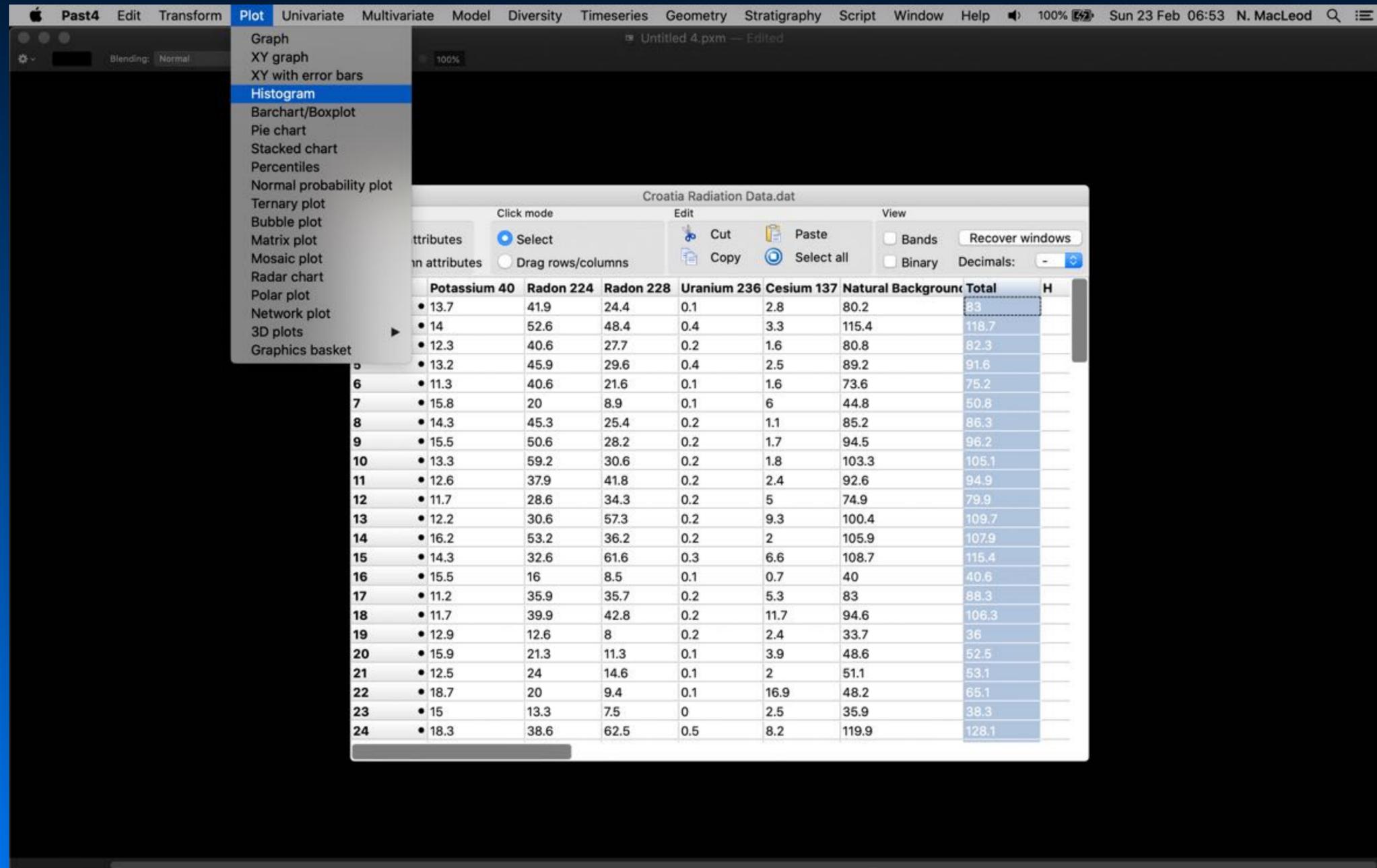
Selecting Samples

The screenshot shows the PAST software interface with a data table titled "Croatia Radiation Data.dat". The table has the following columns: Potassium 40, Radon 224, Radon 228, Uranium 236, Cesium 137, Natural Background, Total, and H. The rows are numbered 2 to 24. The interface includes a menu bar with "Show", "Click mode", "Edit", and "View" options. The "Click mode" section has "Select" selected. The "View" section has "Recover windows" and "Decimals" options.

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
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Paleontological Statistics (PAST)

Creating Plots (Graphs, Charts, etc.)

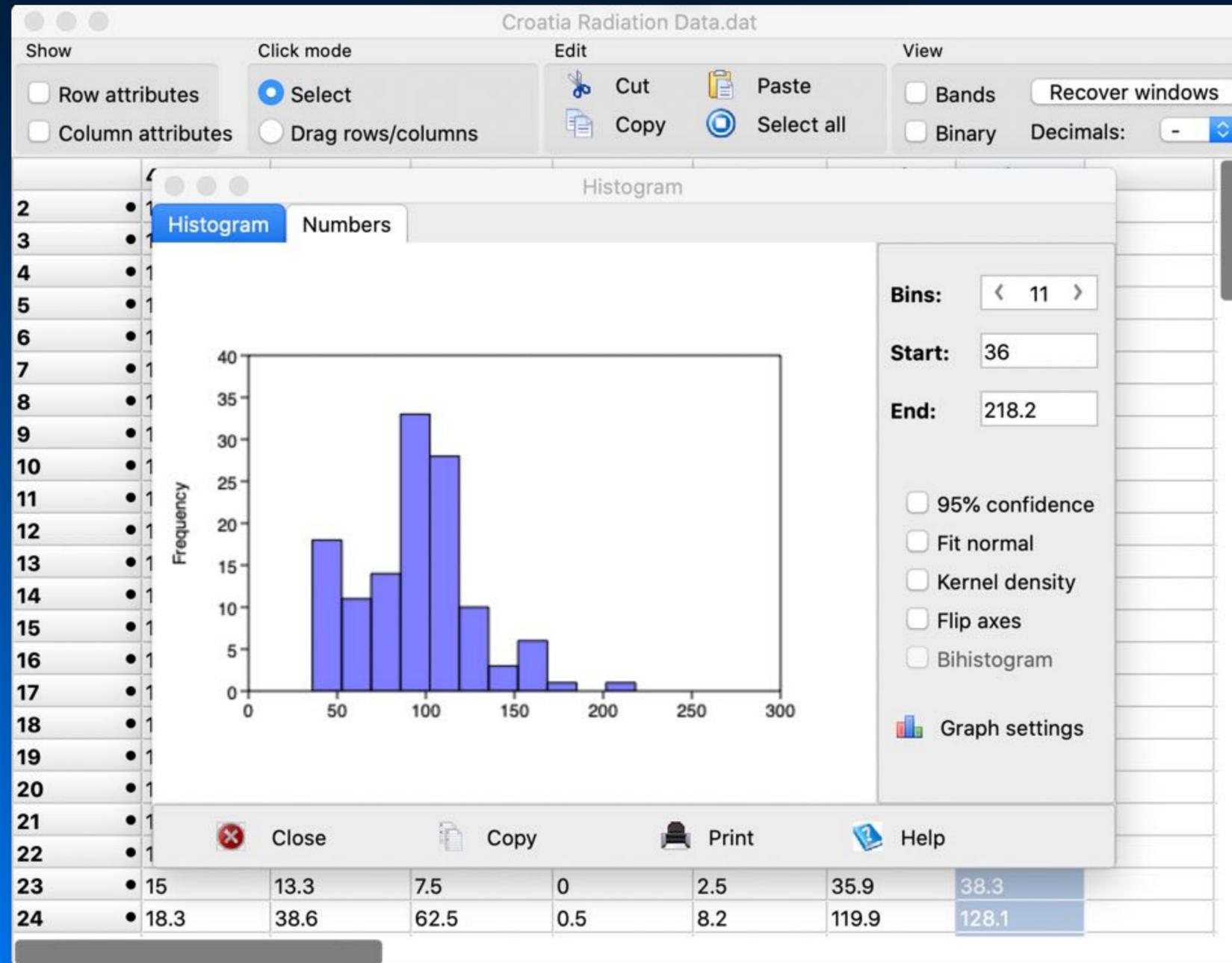


The screenshot displays the PAST software interface. The main window shows a data table titled "Croatia Radiation Data.dat" with columns for various isotopes and a total. A menu is open over the table, listing various plot types. The "Histogram" option is highlighted in blue.

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
•	13.7	41.9	24.4	0.1	2.8	80.2	83	
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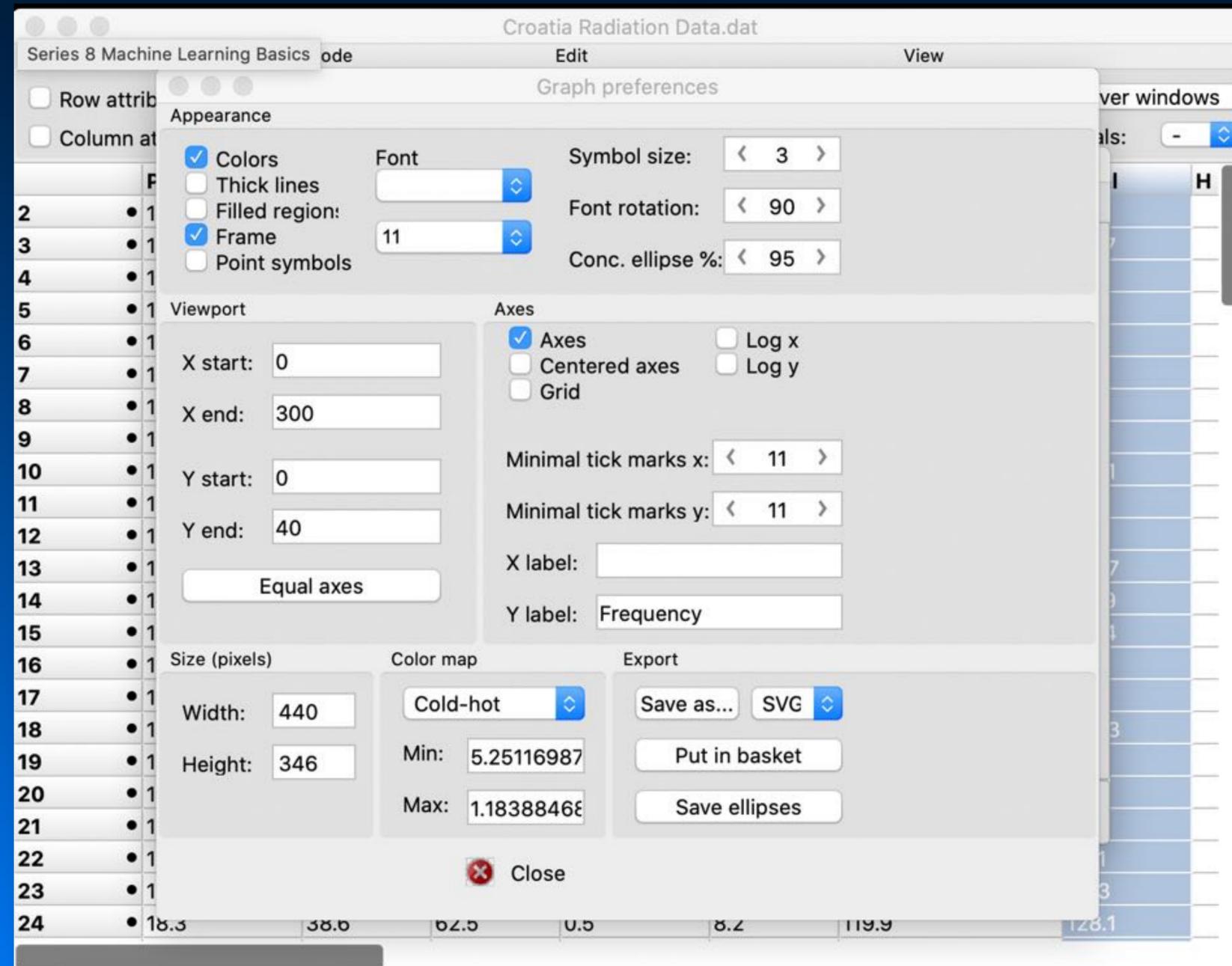
Paleontological Statistics (PAST)

Creating Plots



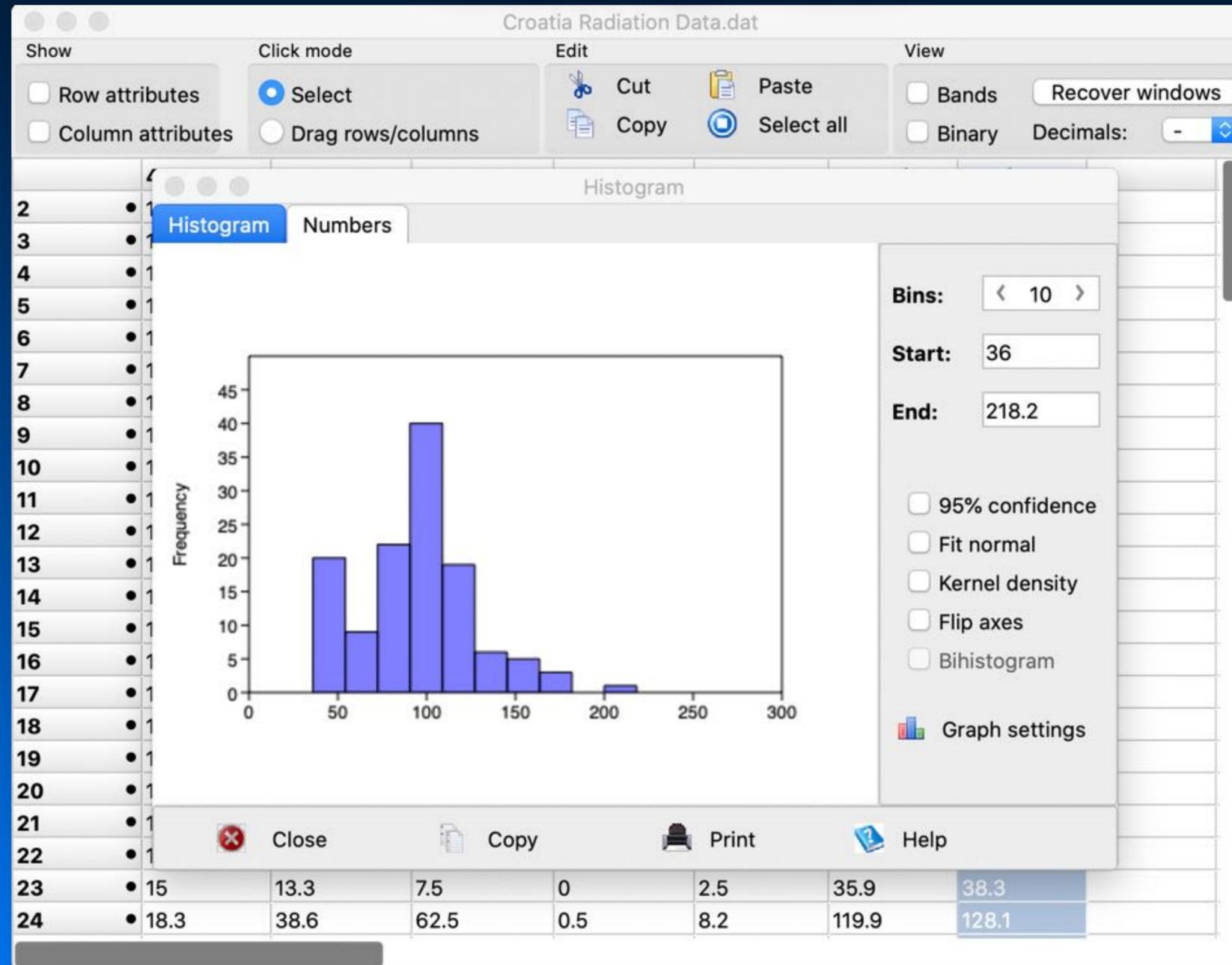
Paleontological Statistics (PAST)

Creating Plots



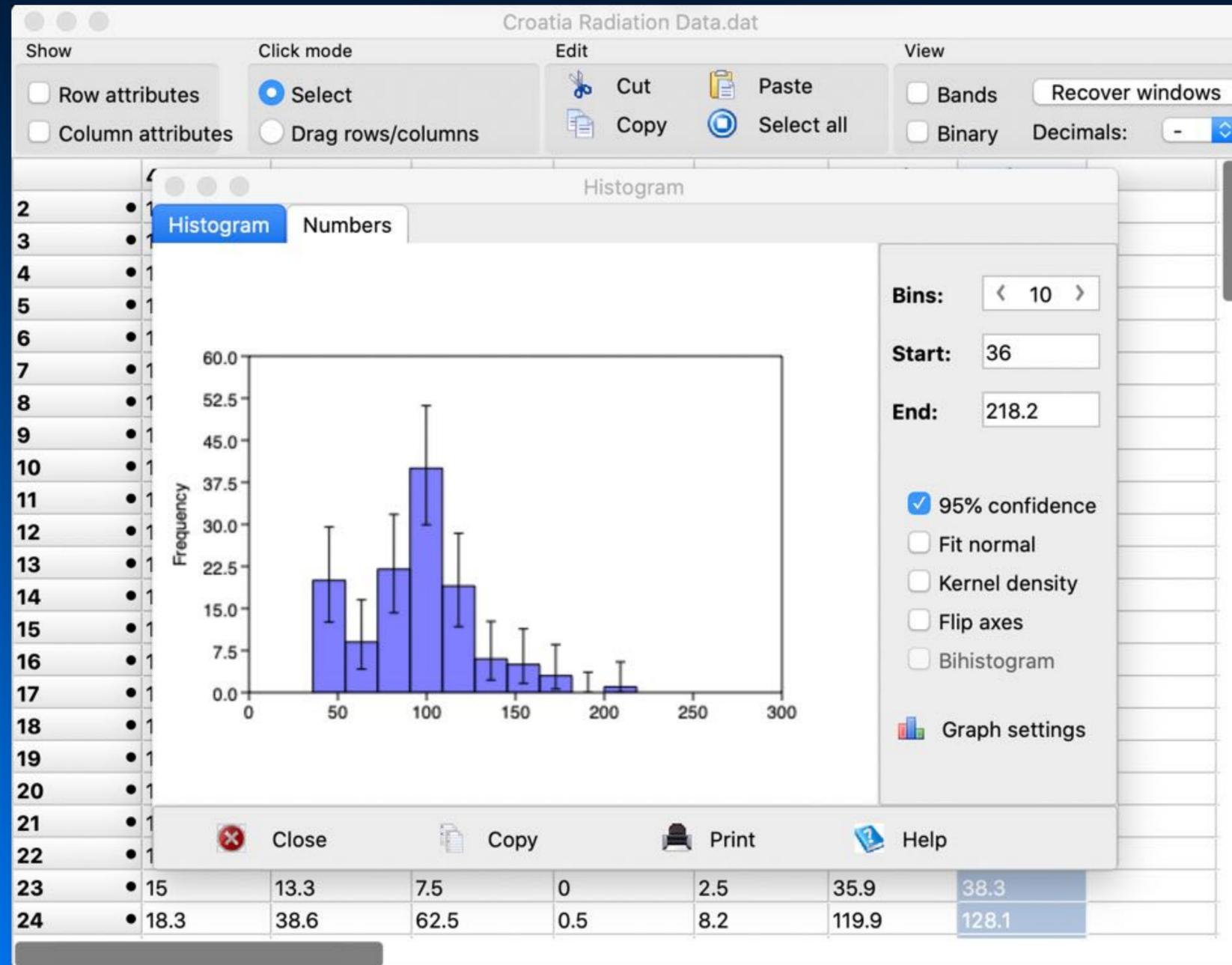
Paleontological Statistics (PAST)

Creating Plots



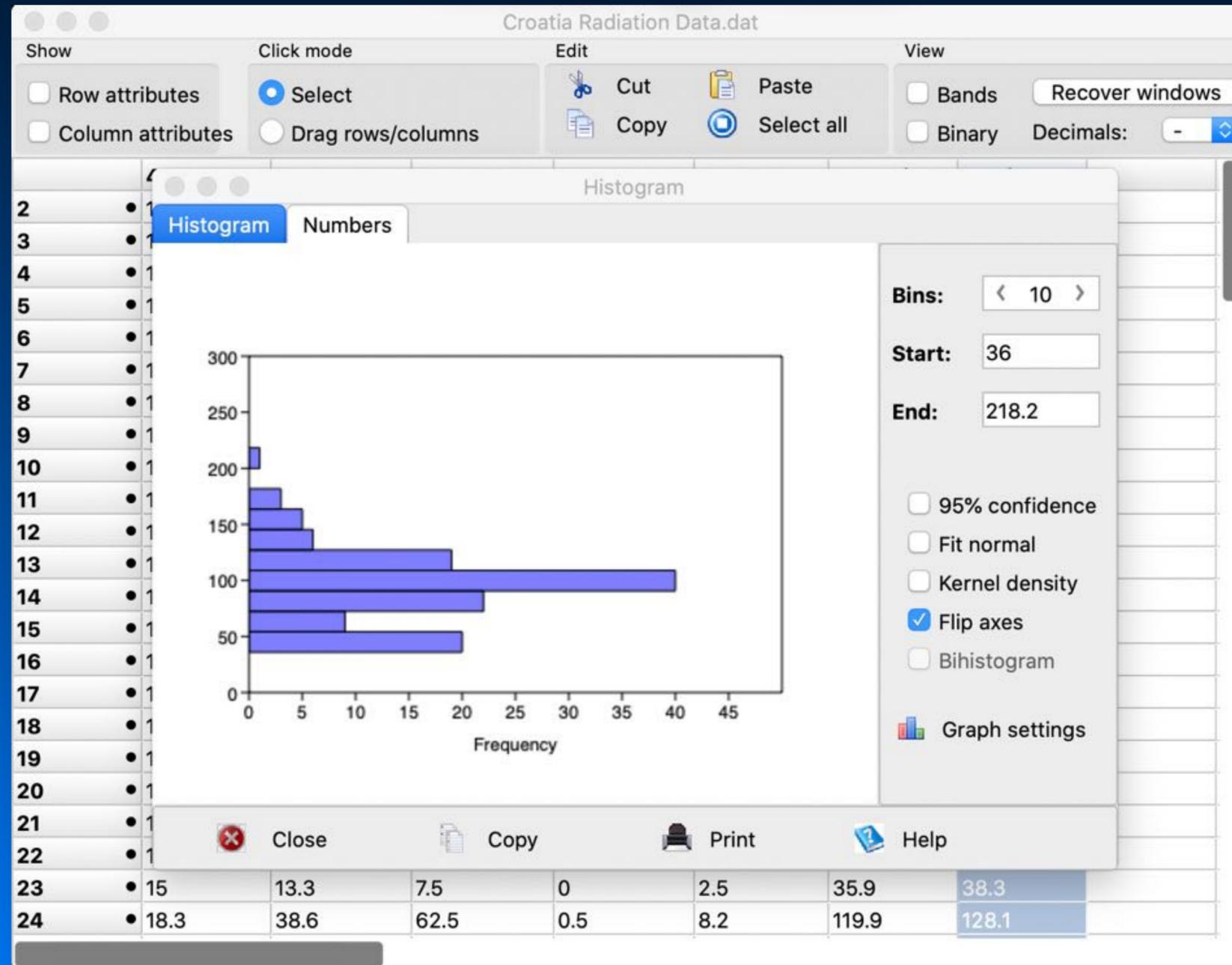
Paleontological Statistics (PAST)

Creating Plots



Paleontological Statistics (PAST)

Creating Plots



Paleontological Statistics (PAST)

Creating Plots

Croatia Radiation Data.dat

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	Potassium 40	Radon 224	Radon 228	Uranium 236	Cesium 137	Natural Background	Total	H
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Paleontological Statistics (PAST)

Creating Plots

The screenshot displays the PAST software interface. The main window shows a data table titled "Croatia Radiation Data.dat" with columns for various isotopes and a total. A menu is open over the table, listing various plot types. The "Plot" menu is currently selected, and the "XY graph" option is highlighted.

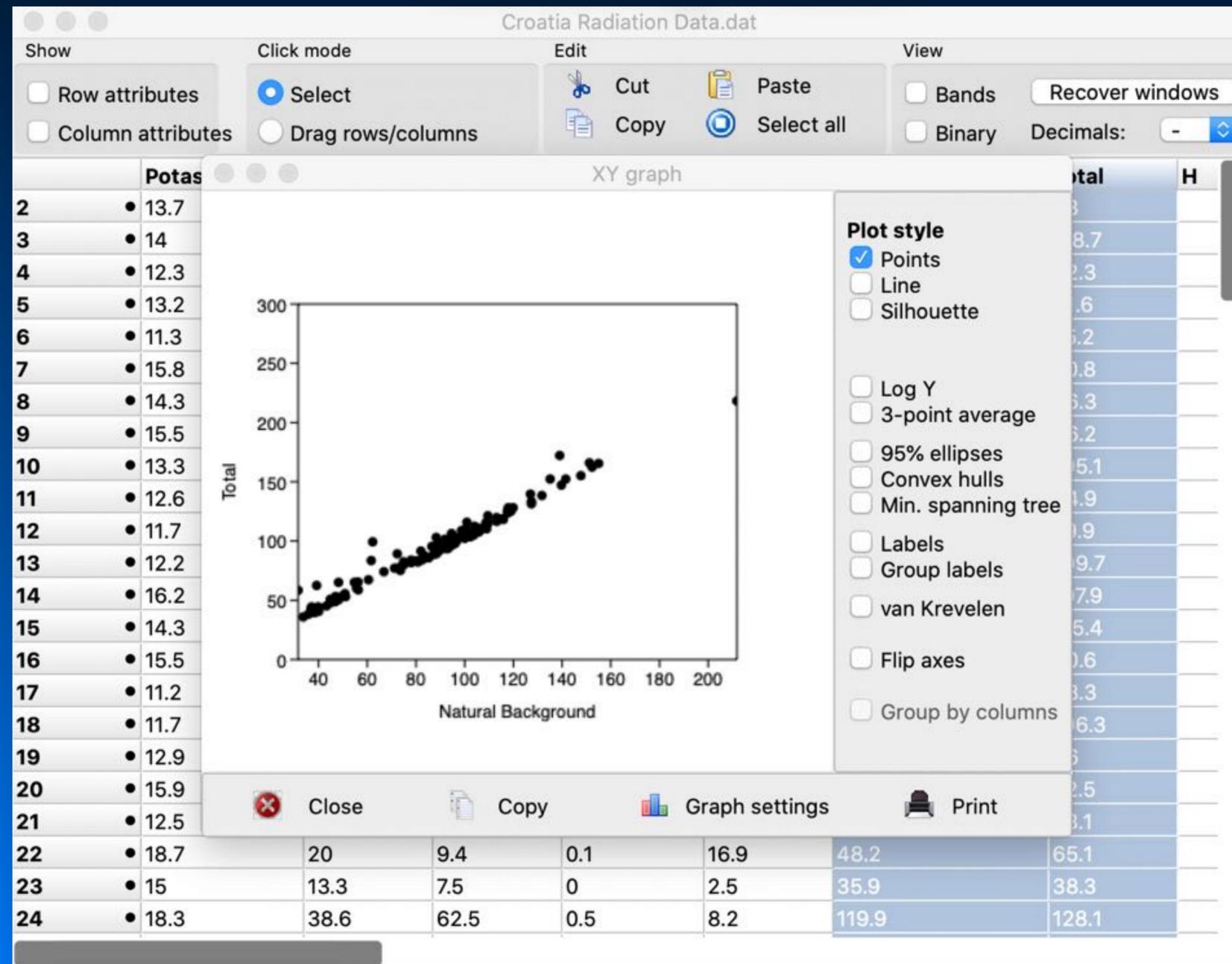
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•	15.5	16	8.5	0.1	0.7	40	40.6	
•	11.2	35.9	35.7	0.2	5.3	83	88.3	
•	11.7	39.9	42.8	0.2	11.7	94.6	106.3	
•	12.9	12.6	8	0.2	2.4	33.7	36	
•	15.9	21.3	11.3	0.1	3.9	48.6	52.5	
•	12.5	24	14.6	0.1	2	51.1	53.1	
•	18.7	20	9.4	0.1	16.9	48.2	65.1	
•	15	13.3	7.5	0	2.5	35.9	38.3	
•	18.3	38.6	62.5	0.5	8.2	119.9	128.1	

The plot menu includes the following options:

- Graph
- XY graph
- XY with error bars
- Histogram
- Bar chart/Boxplot
- Pie chart
- Stacked chart
- Percentiles
- Normal probability plot
- Ternary plot
- Bubble plot
- Matrix plot
- Mosaic plot
- Radar chart
- Polar plot
- Network plot
- 3D plots
- Graphics basket

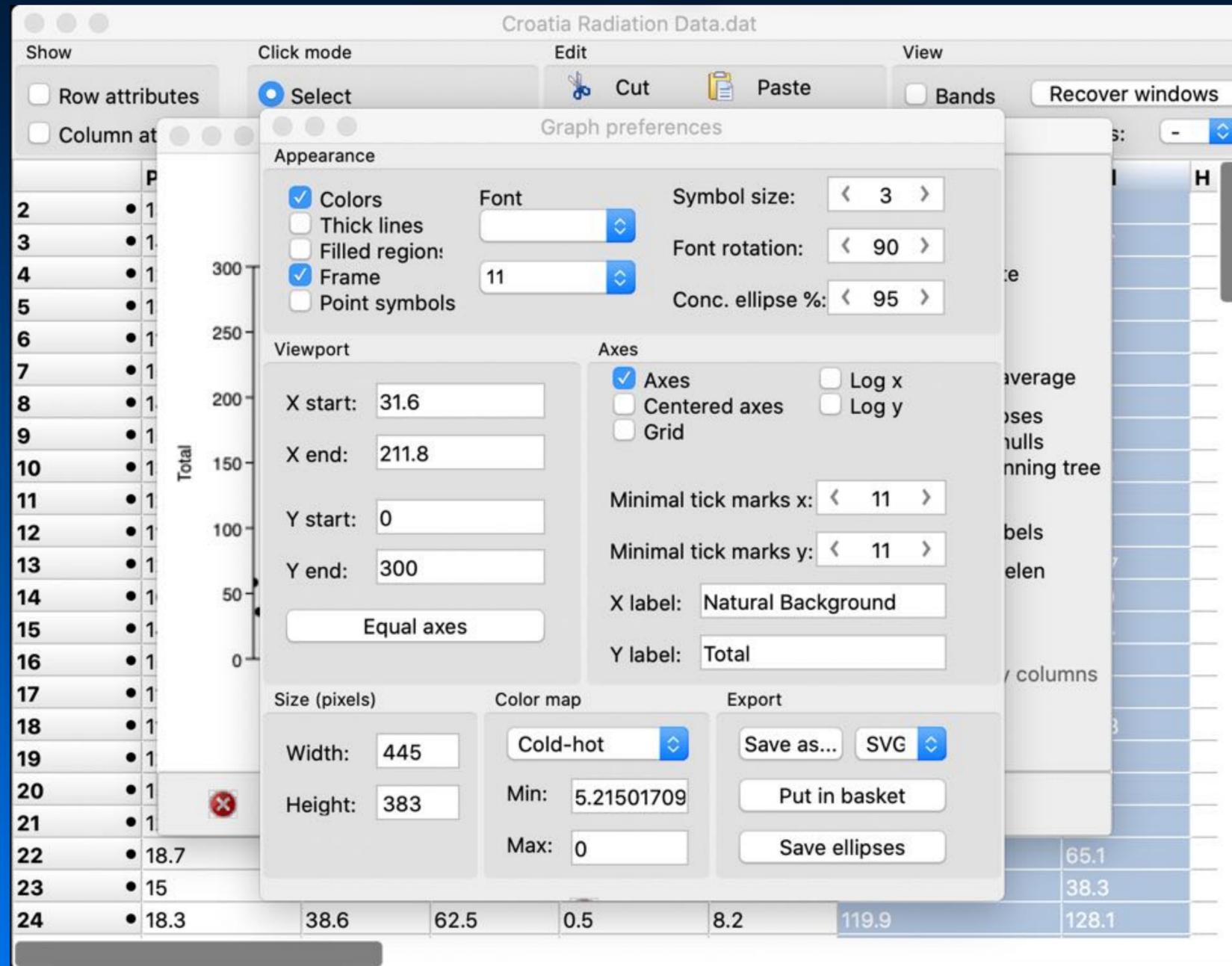
Paleontological Statistics (PAST)

Creating Plots



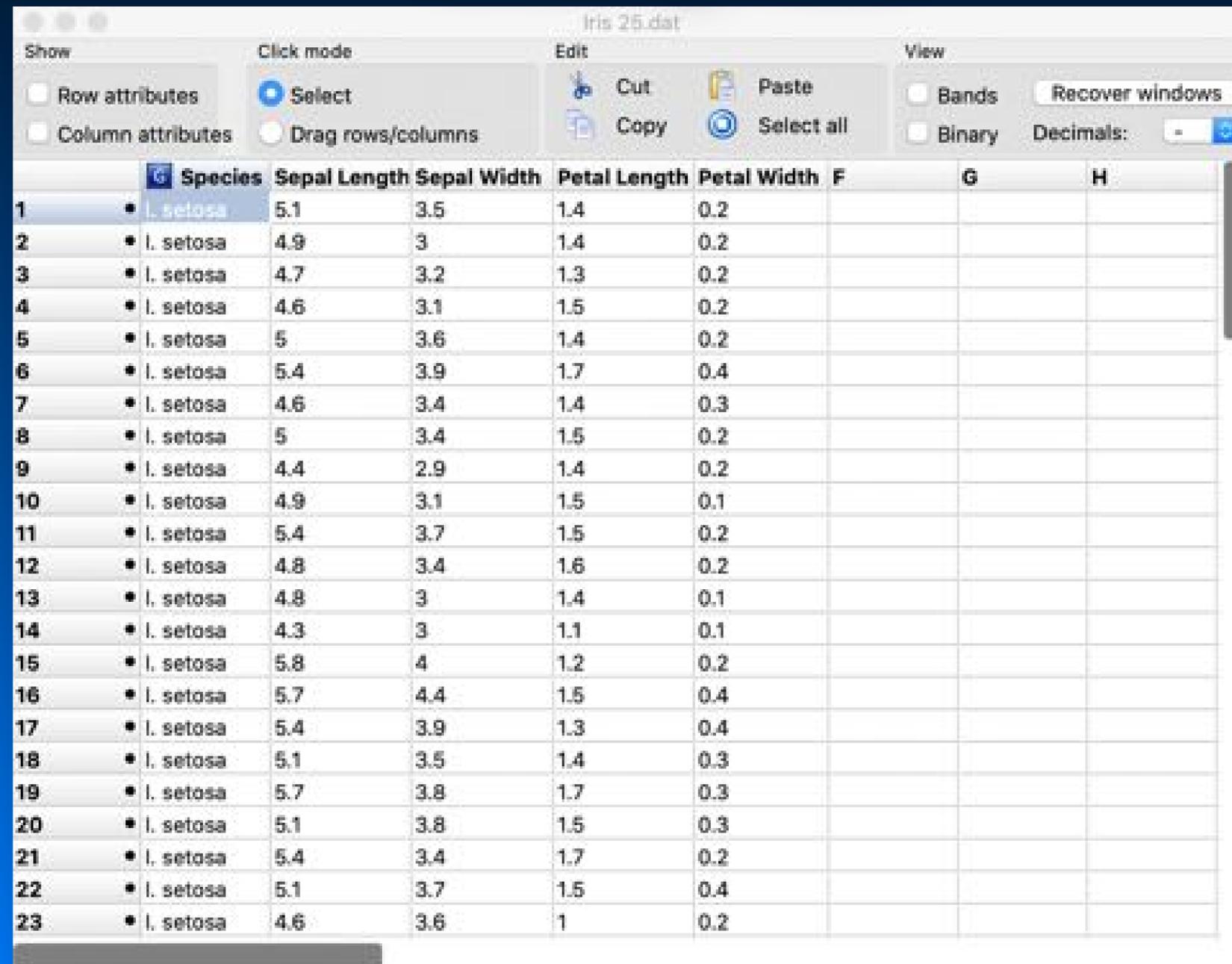
Paleontological Statistics (PAST)

Creating Plots



Paleontological Statistics (PAST)

Creating Plots



The screenshot shows the PAST software interface with a data table titled "Iris 25.dat". The table has the following columns: Species, Sepal Length, Sepal Width, Petal Length, and Petal Width. The 'Species' column is highlighted with a blue background. The data rows are numbered 1 through 23. The interface also includes a menu bar with options like Show, Click mode, Edit, and View, and a toolbar with icons for Cut, Copy, Paste, and Select all.

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
1	• <i>I. setosa</i>	5.1	3.5	1.4	0.2			
2	• <i>I. setosa</i>	4.9	3	1.4	0.2			
3	• <i>I. setosa</i>	4.7	3.2	1.3	0.2			
4	• <i>I. setosa</i>	4.6	3.1	1.5	0.2			
5	• <i>I. setosa</i>	5	3.6	1.4	0.2			
6	• <i>I. setosa</i>	5.4	3.9	1.7	0.4			
7	• <i>I. setosa</i>	4.6	3.4	1.4	0.3			
8	• <i>I. setosa</i>	5	3.4	1.5	0.2			
9	• <i>I. setosa</i>	4.4	2.9	1.4	0.2			
10	• <i>I. setosa</i>	4.9	3.1	1.5	0.1			
11	• <i>I. setosa</i>	5.4	3.7	1.5	0.2			
12	• <i>I. setosa</i>	4.8	3.4	1.6	0.2			
13	• <i>I. setosa</i>	4.8	3	1.4	0.1			
14	• <i>I. setosa</i>	4.3	3	1.1	0.1			
15	• <i>I. setosa</i>	5.8	4	1.2	0.2			
16	• <i>I. setosa</i>	5.7	4.4	1.5	0.4			
17	• <i>I. setosa</i>	5.4	3.9	1.3	0.4			
18	• <i>I. setosa</i>	5.1	3.5	1.4	0.3			
19	• <i>I. setosa</i>	5.7	3.8	1.7	0.3			
20	• <i>I. setosa</i>	5.1	3.8	1.5	0.3			
21	• <i>I. setosa</i>	5.4	3.4	1.7	0.2			
22	• <i>I. setosa</i>	5.1	3.7	1.5	0.4			
23	• <i>I. setosa</i>	4.6	3.6	1	0.2			

Paleontological Statistics (PAST)

Creating Plots

Iris 25.dat

Show: Row attributes, Column attributes

Click mode: Select, Drag rows/columns

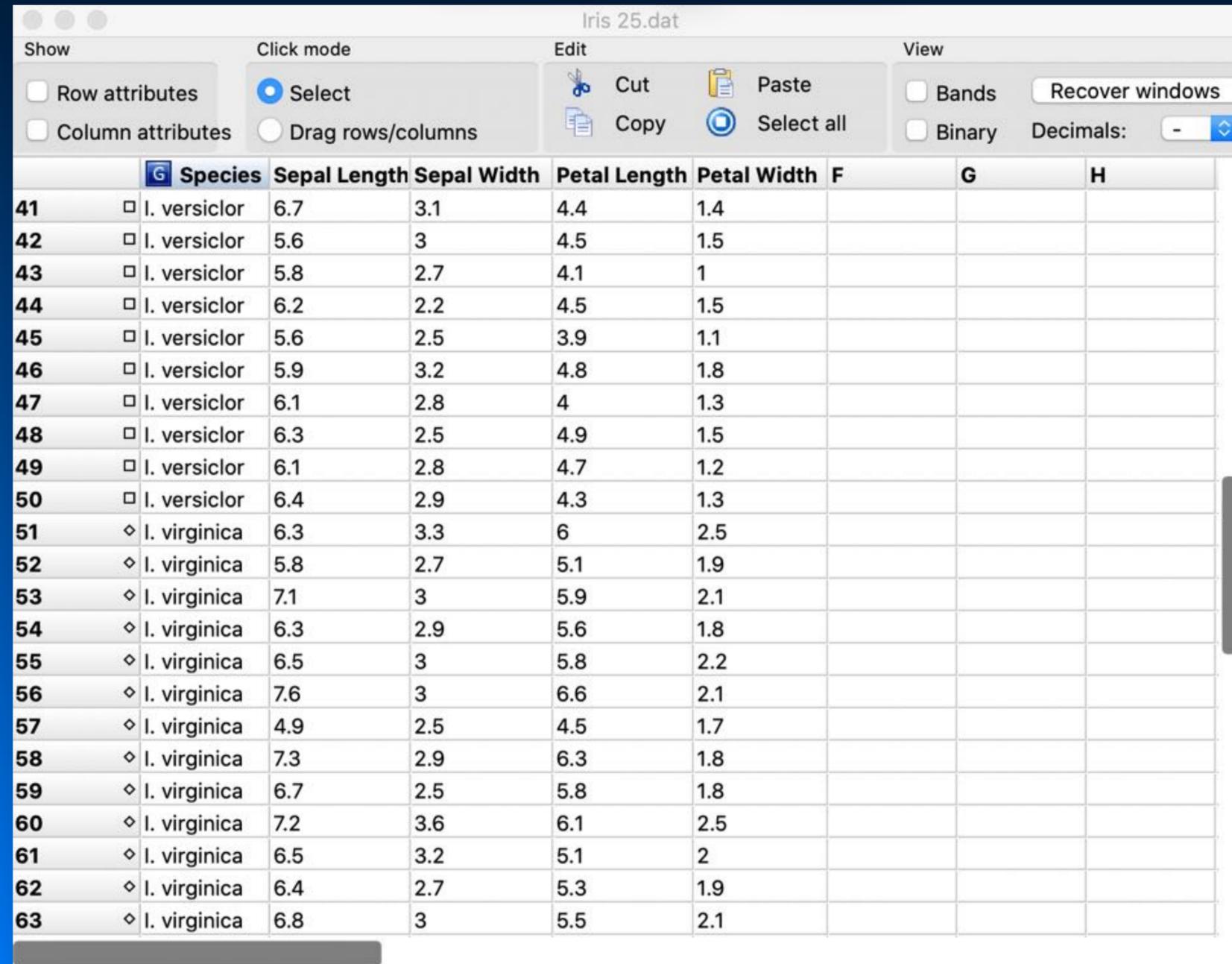
Edit: Cut, Copy, Paste, Select all

View: Bands, Binary, Recover windows, Decimals: -

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
Type	Group	-	-	-	-	-	-	-
Name	-	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
1	Group	5.1	3.5	1.4	0.2			
2	Ordinal	4.9	3	1.4	0.2			
3	Nominal	4.7	3.2	1.3	0.2			
4	Binary	4.6	3.1	1.5	0.2			
5	String	5	3.6	1.4	0.2			
6	I. setosa	5.4	3.9	1.7	0.4			
7	I. setosa	4.6	3.4	1.4	0.3			
8	I. setosa	5	3.4	1.5	0.2			
9	I. setosa	4.4	2.9	1.4	0.2			
10	I. setosa	4.9	3.1	1.5	0.1			
11	I. setosa	5.4	3.7	1.5	0.2			
12	I. setosa	4.8	3.4	1.6	0.2			
13	I. setosa	4.8	3	1.4	0.1			
14	I. setosa	4.3	3	1.1	0.1			
15	I. setosa	5.8	4	1.2	0.2			
16	I. setosa	5.7	4.4	1.5	0.4			
17	I. setosa	5.4	3.9	1.3	0.4			
18	I. setosa	5.1	3.5	1.4	0.3			
19	I. setosa	5.7	3.8	1.7	0.3			
20	I. setosa	5.1	3.8	1.5	0.3			
21	I. setosa	5.4	3.4	1.7	0.2			

Paleontological Statistics (PAST)

Creating Plots



The screenshot displays the PAST software interface with a data table titled "Iris 25.dat". The table has columns for Species, Sepal Length, Sepal Width, Petal Length, Petal Width, F, G, and H. The data is organized into two groups: I. versicolor (rows 41-50) and I. virginica (rows 51-63). The interface includes a menu bar with options like Show, Click mode, Edit, and View, and a toolbar with icons for Cut, Copy, Paste, and Select all.

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
41	I. versicolor	6.7	3.1	4.4	1.4			
42	I. versicolor	5.6	3	4.5	1.5			
43	I. versicolor	5.8	2.7	4.1	1			
44	I. versicolor	6.2	2.2	4.5	1.5			
45	I. versicolor	5.6	2.5	3.9	1.1			
46	I. versicolor	5.9	3.2	4.8	1.8			
47	I. versicolor	6.1	2.8	4	1.3			
48	I. versicolor	6.3	2.5	4.9	1.5			
49	I. versicolor	6.1	2.8	4.7	1.2			
50	I. versicolor	6.4	2.9	4.3	1.3			
51	I. virginica	6.3	3.3	6	2.5			
52	I. virginica	5.8	2.7	5.1	1.9			
53	I. virginica	7.1	3	5.9	2.1			
54	I. virginica	6.3	2.9	5.6	1.8			
55	I. virginica	6.5	3	5.8	2.2			
56	I. virginica	7.6	3	6.6	2.1			
57	I. virginica	4.9	2.5	4.5	1.7			
58	I. virginica	7.3	2.9	6.3	1.8			
59	I. virginica	6.7	2.5	5.8	1.8			
60	I. virginica	7.2	3.6	6.1	2.5			
61	I. virginica	6.5	3.2	5.1	2			
62	I. virginica	6.4	2.7	5.3	1.9			
63	I. virginica	6.8	3	5.5	2.1			

Paleontological Statistics (PAST)

Creating Plots

The screenshot shows the PAST software interface with a data table titled 'Iris 25.dat'. The table has the following columns: Species, Sepal Length, Sepal Width, Petal Length, and Petal Width. The rows are numbered 17 to 39. Rows 26 through 39 are highlighted in blue. The interface also includes a menu bar with options like Show, Click mode, Edit, and View, and a 'Recover windows' button.

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
17	• I. setosa	5.4	3.9	1.3	0.4			
18	• I. setosa	5.1	3.5	1.4	0.3			
19	• I. setosa	5.7	3.8	1.7	0.3			
20	• I. setosa	5.1	3.8	1.5	0.3			
21	• I. setosa	5.4	3.4	1.7	0.2			
22	• I. setosa	5.1	3.7	1.5	0.4			
23	• I. setosa	4.6	3.6	1	0.2			
24	• I. setosa	5.1	3.3	1.7	0.5			
25	• I. setosa	4.8	3.4	1.9	0.2			
26	• I. versicolor	7	3.2	4.7	1.4			
27	• I. versicolor	6.4	3.2	4.5	1.5			
28	• I. versicolor	6.9	3.1	4.9	1.5			
29	• I. versicolor	5.5	2.3	4	1.3			
30	• I. versicolor	6.5	2.8	4.6	1.5			
31	• I. versicolor	5.7	2.8	4.5	1.3			
32	• I. versicolor	6.3	3.3	4.7	1.6			
33	• I. versicolor	4.9	2.4	3.3	1			
34	• I. versicolor	6.6	2.9	4.6	1.3			
35	• I. versicolor	5.2	2.7	3.9	1.4			
36	• I. versicolor	5	2	3.5	1			
37	• I. versicolor	5.9	3	4.2	1.5			
38	• I. versicolor	6	2.2	4	1			
39	• I. versicolor	6.1	2.9	4.7	1.4			

Paleontological Statistics (PAST)

Creating Plots

The screenshot displays the PAST software interface. The main window shows a data table titled "Iris 25.dat" with columns for Species, Sepal Length, Sepal Width, Petal Length, and Petal Width. The data is organized into two groups: *I. setosa* (rows 1-18) and *I. versicolor* (rows 19-39). A menu is open over the table, with "Row colors/symbols ..." selected. The menu options include Undo, Redo, Cut, Copy, Paste, Select all, Insert more rows..., Insert more columns..., Remove, Remove uninformative rows/columns..., Row colors/symbols..., Find..., Replace..., Fill..., Counter..., and Rearrange. The software's menu bar includes options like Edit, Transform, Plot, Univariate, Multivariate, Model, Diversity, Timeseries, Geometry, Stratigraphy, Script, Window, and Help. The status bar at the bottom shows the date and time: Sun 23 Feb 10:52 N. MacLeod.

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
	<i>I. setosa</i>	5.4	3.9	1.3	0.4			
	<i>I. setosa</i>	5.1	3.5	1.4	0.3			
19	<i>I. setosa</i>	5.7	3.8	1.7	0.3			
20	<i>I. setosa</i>	5.1	3.8	1.5	0.3			
21	<i>I. setosa</i>	5.4	3.4	1.7	0.2			
22	<i>I. setosa</i>	5.1	3.7	1.5	0.4			
23	<i>I. setosa</i>	4.6	3.6	1	0.2			
24	<i>I. setosa</i>	5.1	3.3	1.7	0.5			
25	<i>I. setosa</i>	4.8	3.4	1.9	0.2			
26	<i>I. versicolor</i>	7	3.2	4.7	1.4			
27	<i>I. versicolor</i>	6.4	3.2	4.5	1.5			
28	<i>I. versicolor</i>	6.9	3.1	4.9	1.5			
29	<i>I. versicolor</i>	5.5	2.3	4	1.3			
30	<i>I. versicolor</i>	6.5	2.8	4.6	1.5			
31	<i>I. versicolor</i>	5.7	2.8	4.5	1.3			
32	<i>I. versicolor</i>	6.3	3.3	4.7	1.6			
33	<i>I. versicolor</i>	4.9	2.4	3.3	1			
34	<i>I. versicolor</i>	6.6	2.9	4.6	1.3			
35	<i>I. versicolor</i>	5.2	2.7	3.9	1.4			
36	<i>I. versicolor</i>	5	2	3.5	1			
37	<i>I. versicolor</i>	5.9	3	4.2	1.5			
38	<i>I. versicolor</i>	6	2.2	4	1			
39	<i>I. versicolor</i>	6.1	2.9	4.7	1.4			

Paleontological Statistics (PAST)

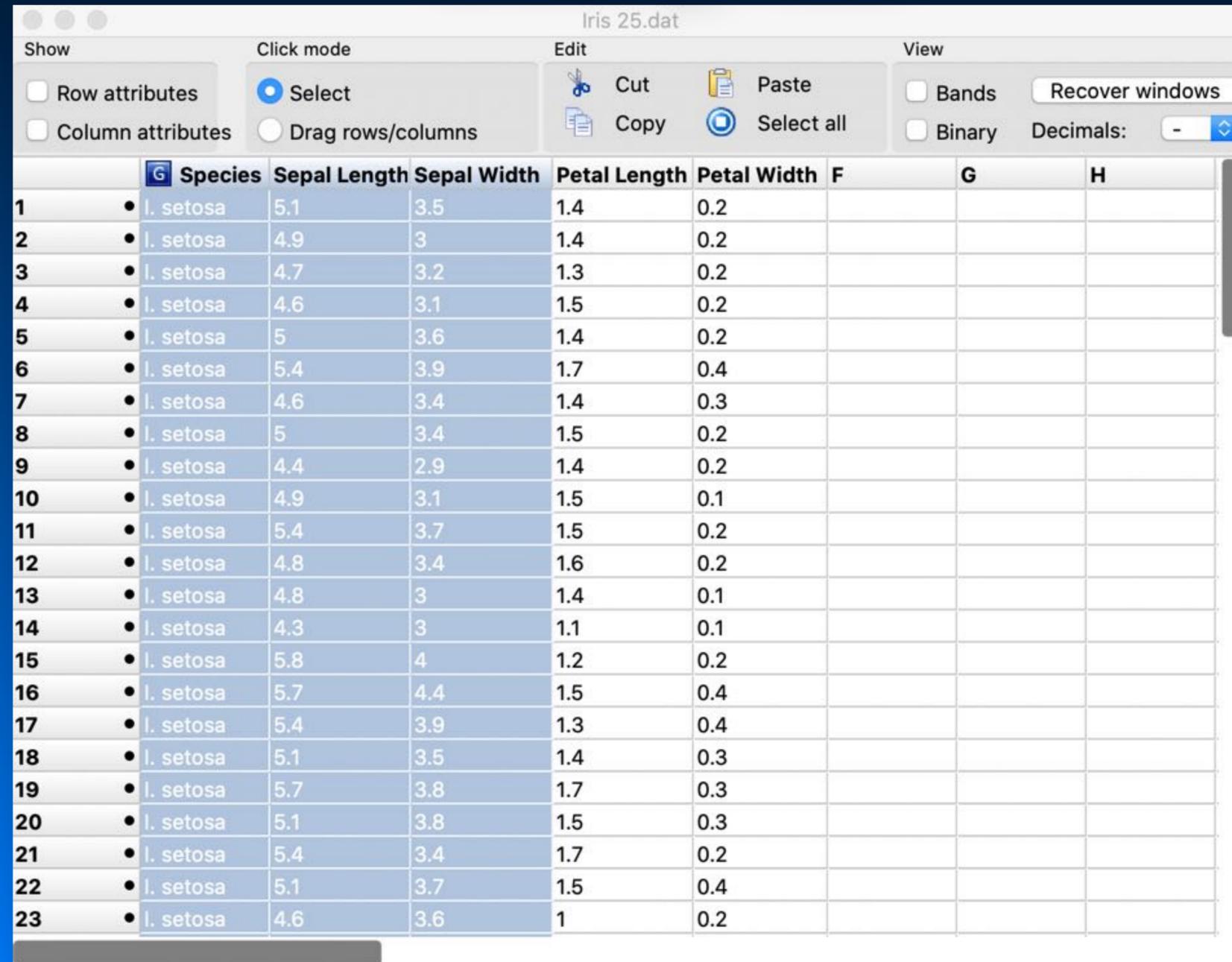
Creating Plots

The screenshot shows the PAST software interface with a data table titled 'Iris 25.dat'. The table has columns for Species, Sepal Length, Sepal Width, Petal Length, Petal Width, F, G, and H. A dialog box titled 'Row colors/symbols' is open, allowing users to set colors and symbols for different groups. The dialog box has a table with columns for Group, Color, and Symbol. The 'Group' column is set to 'I. versicolor', the 'Color' column is black, and the 'Symbol' column is set to 'Square'. There is also a 'Load image symbol' section with buttons for Image 1 through Image 8. The dialog box has a 'Close' button at the bottom.

	Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
21	• I. setosa	5.4	3.4	1.7	0.2			
22	• I. setosa	5.1	2.7	1.5	0.4			
23	• I. setosa							
24	• I. setosa							
25	• I. setosa							
26	• I. versicolor							
27	• I. versicolor							
28	• I. versicolor							
29	• I. versicolor							
30	• I. versicolor							
31	• I. versicolor							
32	• I. versicolor							
33	• I. versicolor							
34	• I. versicolor							
35	• I. versicolor							
36	• I. versicolor							
37	• I. versicolor							
38	• I. versicolor							
39	• I. versicolor							
40	• I. versicolor	5.6	2.9	3.6	1.3			
41	• I. versicolor	6.7	3.1	4.4	1.4			
42	• I. versicolor	5.6	3	4.5	1.5			
43	• I. versicolor	5.8	2.7	4.1	1			

Paleontological Statistics (PAST)

Creating Plots

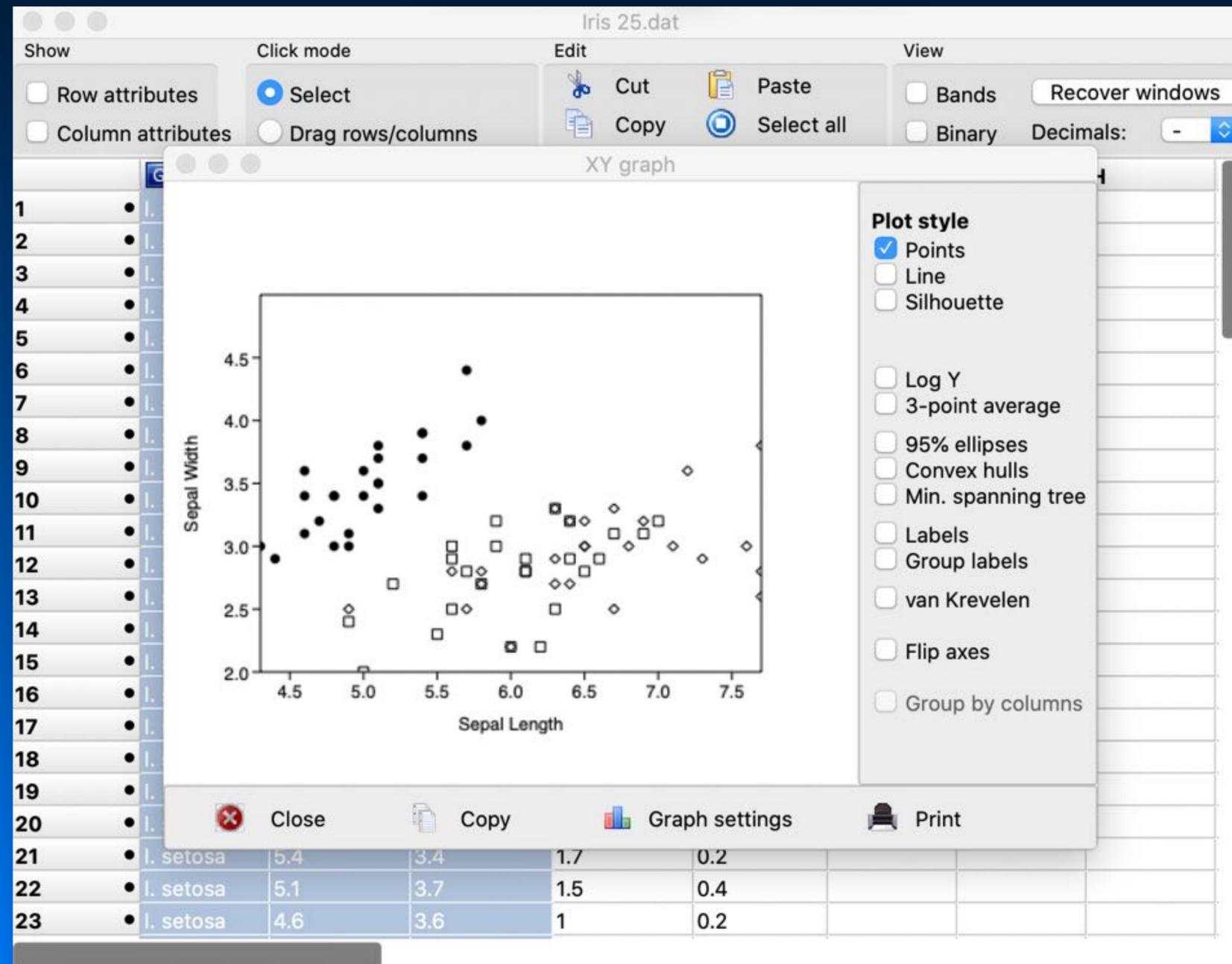


The screenshot displays the PAST software interface for a file named 'Iris 25.dat'. The interface includes a menu bar with the following options: Show, Click mode, Edit, and View. The 'Show' menu has 'Row attributes' and 'Column attributes' (both unchecked). The 'Click mode' menu has 'Select' (selected) and 'Drag rows/columns' (unchecked). The 'Edit' menu has 'Cut', 'Copy', 'Paste', and 'Select all'. The 'View' menu has 'Bands' (unchecked), 'Recover windows', 'Binary' (unchecked), and 'Decimals: -' (dropdown menu). The main data table is as follows:

	G Species	Sepal Length	Sepal Width	Petal Length	Petal Width	F	G	H
1	• l. setosa	5.1	3.5	1.4	0.2			
2	• l. setosa	4.9	3	1.4	0.2			
3	• l. setosa	4.7	3.2	1.3	0.2			
4	• l. setosa	4.6	3.1	1.5	0.2			
5	• l. setosa	5	3.6	1.4	0.2			
6	• l. setosa	5.4	3.9	1.7	0.4			
7	• l. setosa	4.6	3.4	1.4	0.3			
8	• l. setosa	5	3.4	1.5	0.2			
9	• l. setosa	4.4	2.9	1.4	0.2			
10	• l. setosa	4.9	3.1	1.5	0.1			
11	• l. setosa	5.4	3.7	1.5	0.2			
12	• l. setosa	4.8	3.4	1.6	0.2			
13	• l. setosa	4.8	3	1.4	0.1			
14	• l. setosa	4.3	3	1.1	0.1			
15	• l. setosa	5.8	4	1.2	0.2			
16	• l. setosa	5.7	4.4	1.5	0.4			
17	• l. setosa	5.4	3.9	1.3	0.4			
18	• l. setosa	5.1	3.5	1.4	0.3			
19	• l. setosa	5.7	3.8	1.7	0.3			
20	• l. setosa	5.1	3.8	1.5	0.3			
21	• l. setosa	5.4	3.4	1.7	0.2			
22	• l. setosa	5.1	3.7	1.5	0.4			
23	• l. setosa	4.6	3.6	1	0.2			

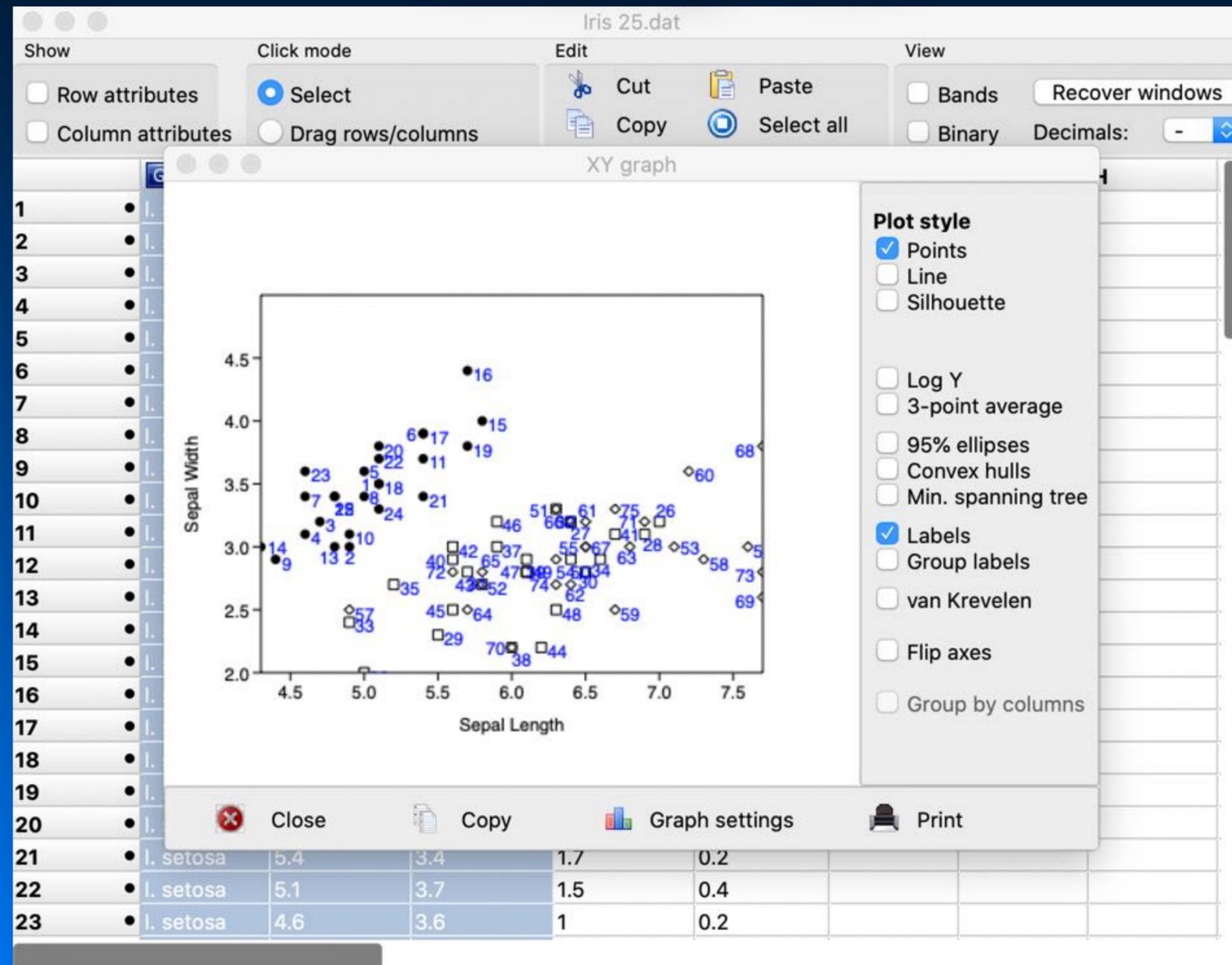
Paleontological Statistics (PAST)

Creating Plots



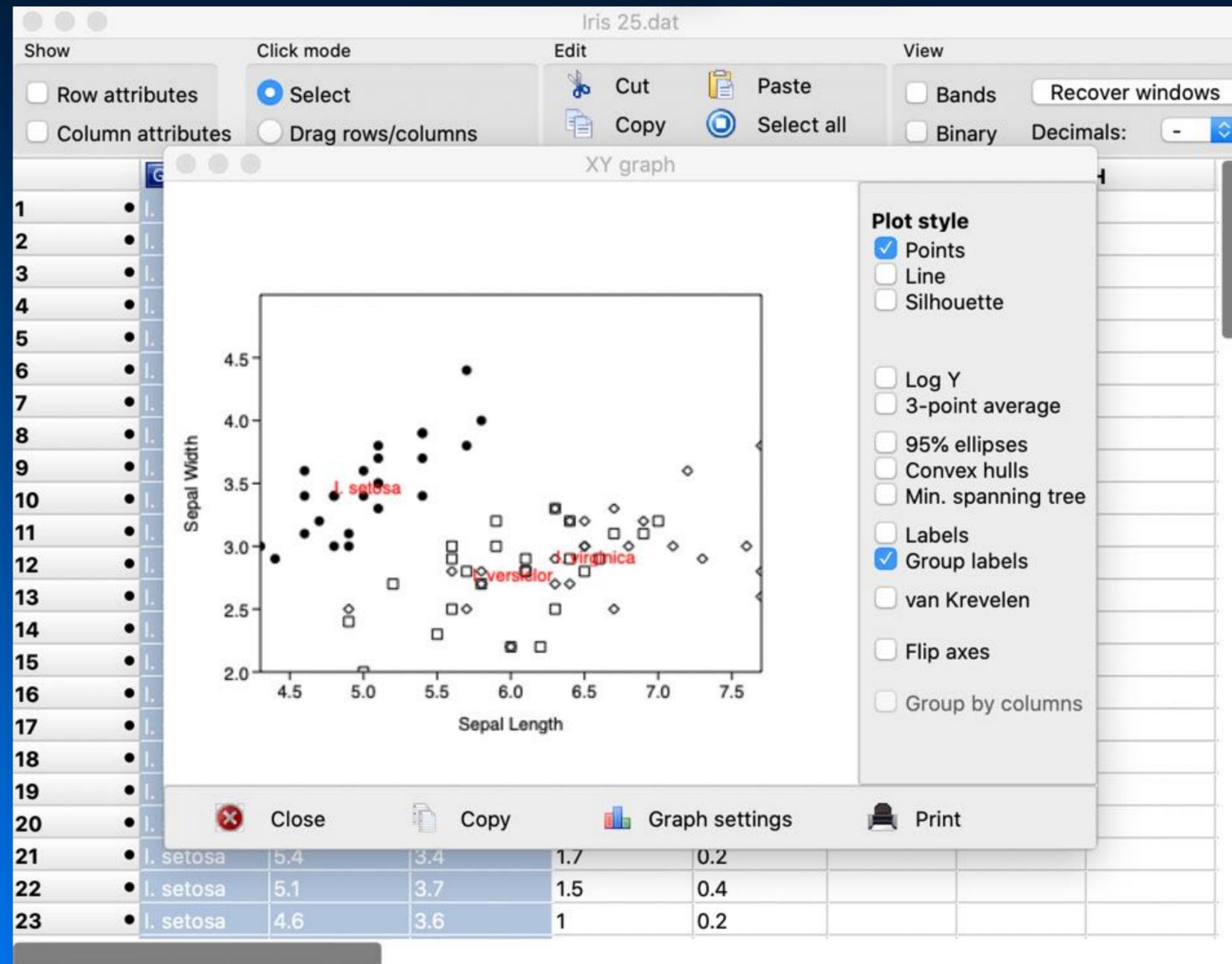
Paleontological Statistics (PAST)

Creating Plots



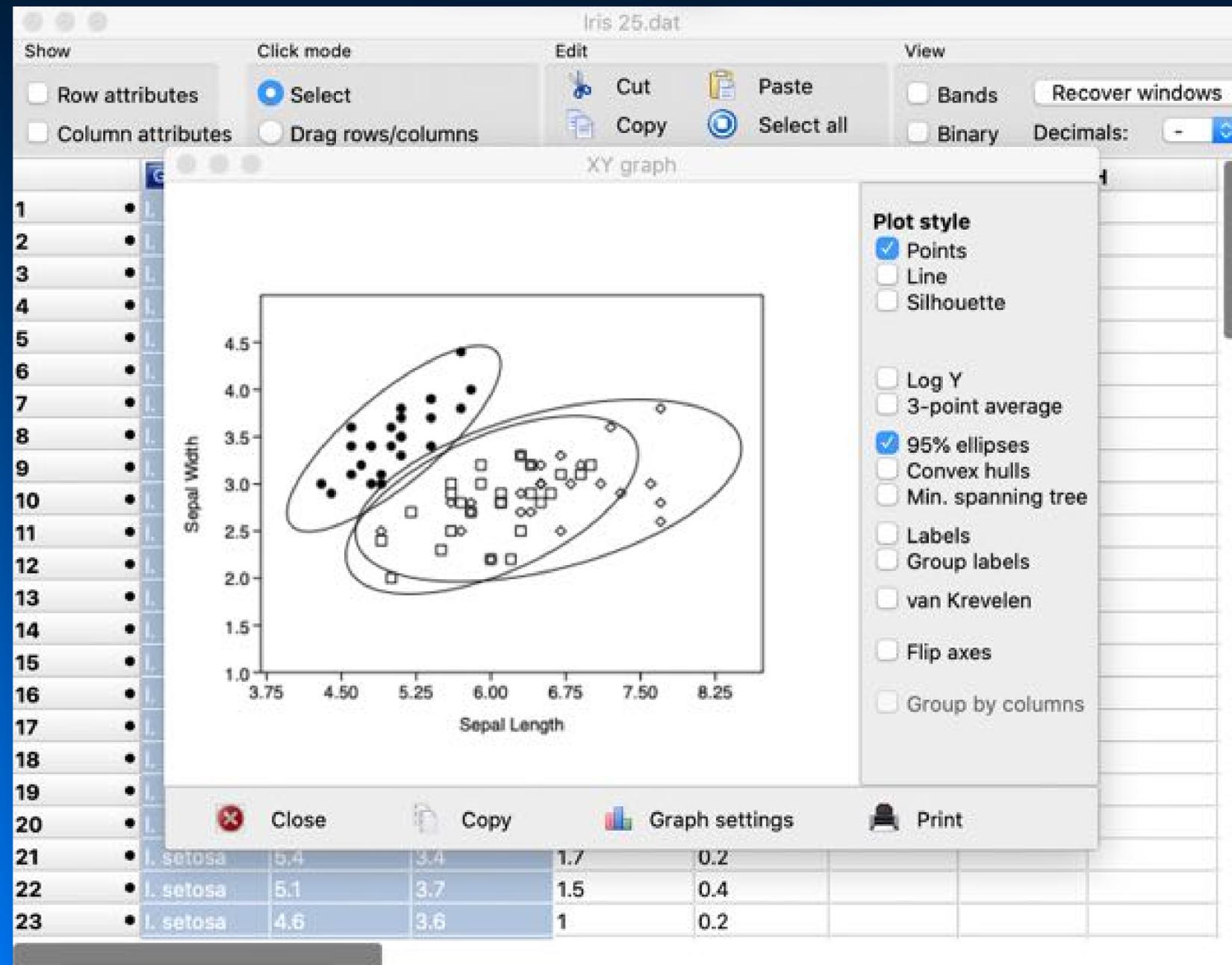
Paleontological Statistics (PAST)

Creating Plots



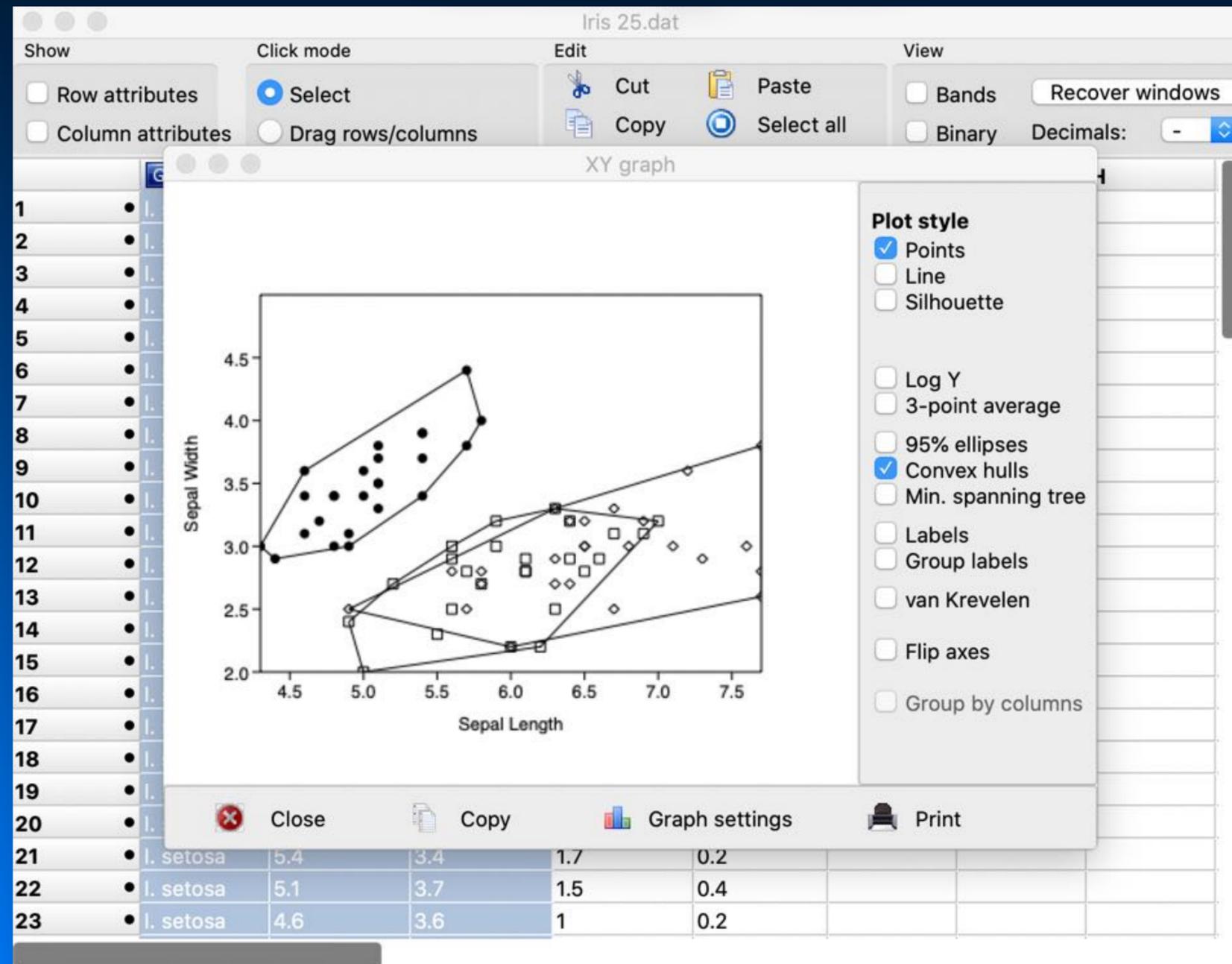
Paleontological Statistics (PAST)

Creating Plots



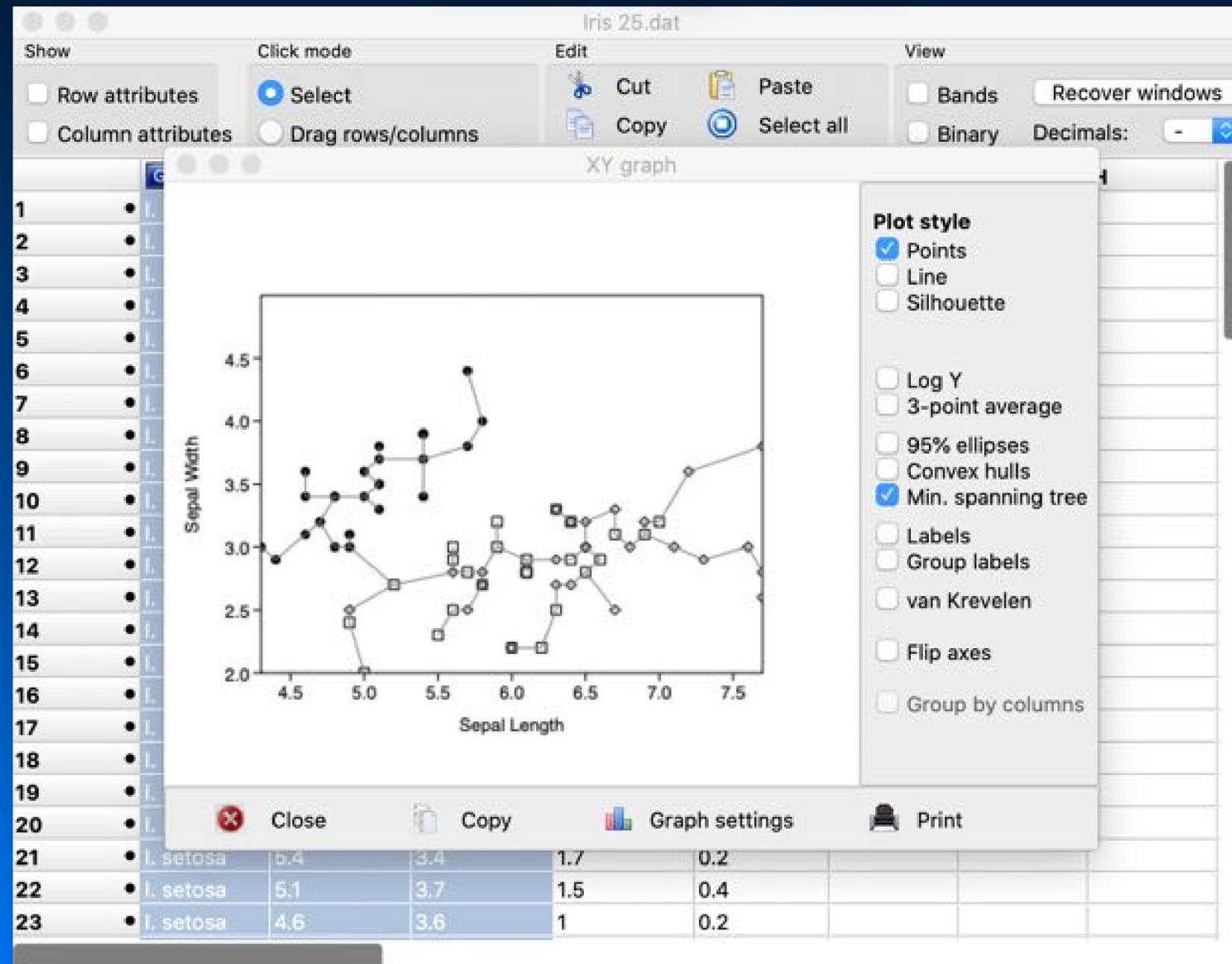
Paleontological Statistics (PAST)

Creating Plots



Paleontological Statistics (PAST)

Creating Plots



Lab Practical Assignment I

Kentucky Dataset

Dataset consisting of seven variables measured on the forms of 50 stream drainage basins collected from the eastern part of the US state of Kentucky. Original reference: Krumbein and Shreve (1970).

