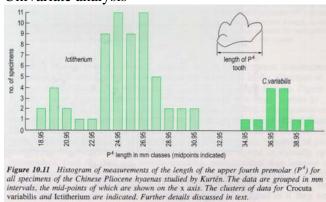
## GL21A PALAEONTOLOGY Morphometrics I

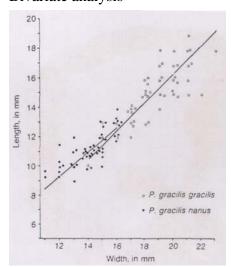
Read Chapter 4 from Raup, D.M. & Stanley, S.M. 1978. Principles of Paleontolgy (2<sup>nd</sup> Edition). W. H. Freeman and Co. San Francisco, 481p.

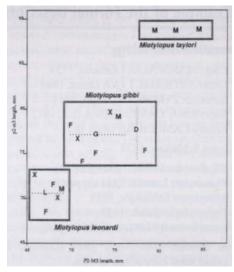
- I. Describing Species & Fossil Populations
  - A. Qualitative description
  - B. Quantitative description
- II. Characters
  - A. Homologous
  - B. Age independent
  - C. Age dependent
- III. Morphometric Analysis
  - A. Univariate Analysis Figure 4-11
    - 1. Means, Modes and the spread of data
    - 2. Histograms
  - B. Bivariate Analysis (examining the relationship b/w 2 variables) Figure 4-14
  - C. Using Ratios Figure 4-12
- III. Correlation -
  - A. Linear Correlation- degree to which two data on 2 variables can be plotted on a straight line
  - B. Positive and Negative
  - C. Measured characters are generally positively correlated

## Univariate analysis



## Bivariate analysis





## Correlation

