

ES322 Geomorphology – Class Assignment
Key Word Search on Glaciers

Due Nov. 20, 2009

Using internet, text, and other class resources, provide a brief definition or description of the following terms, with a sketch, equation or cut-n-paste photo where required.

- I. Glacial Process Terminology
 - a. glacier
 - b. alpine glacier (provide photo)
 - c. ice sheet (provide sketch map)
 - d. temperate glacier
 - e. polar glacier
 - f. snow-firn-ice (define according to density)
 - g. glacier ice budget – advance – retreat (explain)
 - h. brittle ice
 - i. visco-plastic deformation
 - j. basal sliding vs. internal deformation
 - k. zone of accumulation
 - l. zone of ablation
 - m. crevasse (sketch transverse and longitudinal)
 - n. abrasion and striation
 - o. quarrying or plucking
- II. Glacial Landforms and Deposit Terminology
 - a. Cirque (provide photo)
 - b. Arête (provide photo)
 - c. horn (provide photo)
 - d. fjord (provide sketch)
 - e. non-stratified drift (provide sketch)
 - f. stratified drift (provide sketch)
 - g. till (provide photo)
 - h. outwash (provide photo)
 - i. moraine (provide photo)
 - j. lateral moraine (provide sketch)
 - k. end moraine (provide sketch)
 - l. esker (provide photo)
 - m. drumlin (provide photo)
 - n. loess
 - o. kettle (provide sketch)
 - p. bonus term: “pingo” provide definition and photo
 - q. bonus term: “rock glacier” provide definition and photo