**Investigating Glaciated Landscapes 1:**

***Are the depositional landforms around Llyn Llydaw mainly lodgement or ablation in origin?***

**Methodology:**

This is a half-day exercise and requires investigation of the sediment in at least two depositional features around Llyn Llydaw and independent evidence of ice-flow in this area to compare against clast orientation:

1. **Till fabric analysis**

*Rationale:* This will provide evidence of the sediment characteristics of the landforms you’re investigating to help you determine (if possible) the type of depositional landform it is.

*Data types:* This will largely be quantitative but will also include some qualitative data for landform shape and sediment size distribution.

*Equipment:* Sampling is important here so a quadrat is needed. How much data and how it will be selected both need careful consideration to provide sufficient reliable evidence for you to draw firm conclusions. Stone roundness charts, and a compass for orientation. Camera/notebook.

1. **Ice flow direction**

*Rationale:* This will provide evidence of the direction(s) in which ice flowed through this area. It’s critical to have independent evidence of this against which clast orientation can be compared, otherwise you end up with a circular argument.

*Data types:* This will be quantitative but it would be useful to have some photographic evidence of what you have used to determine ice flow directions. Ice flow will need to be determined in a number of different locations but particularly in the areas where you have sampled sediment.

*Equipment:* Compass and basemap of the area onto which directions at various locations can be plotted. Camera/notebook.