

Site Name: Alltgoch & Bryn Quarries **Grid Reference: SN 492485**

RIGS Category: Scientific

Earth Science Category: Ordovician (Ashgill) Stratigraphy

Geology 1:50,000: BGS Sheet 194 Llangranog

RIGS Statement of Interest:

Allt Goch and Bryn quarries are almost adjacent to each other, expose similar kinds of sedimentary rocks and structures, and are under the same management, so are included in the same RIGS. Inland rock exposure in this region is generally poor, so the quarries offer rare opportunities to study these Upper Ordovician marine sedimentary rocks. The rocks include thick sandstone packets, which were exploited until recently for their high quality engineering and construction properties. The disposition of these rocks is complicated in both quarries, but especially in Bryn Quarry. The sand and mud making up the succession were severely disturbed by slumping and sliding on or near the seafloor before consolidation into rock. They contain spectacular load structures, produced as trapped sea water destabilised the sediment, chaotic folds and slide surfaces. Of similar age and origin to the rocks and structures seen at the Llangranog RIGS (RIGS 154), those exposed in the Allt Goch and Bryn quarries are generally more easily and safely accessible.

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