

**CYNGOR CEFN GWLAD CYMRU  
COUNTRYSIDE COUNCIL FOR WALES**

**SITE OF SPECIAL SCIENTIFIC INTEREST CITATION**

**POWYS**

**CORS LLANLLUGAN  
(LLANLLUGAN MIRE)**

**Date of notification:** 1984, 1986

**National grid reference:** SJ 063030

**O.S. Maps:** 1:50,000 Sheet number: 136  
1:25,000 Sheet number: SJ 00

**Site area:** 8.9 ha

**Description:**

This site is an excellent example of an undisturbed basin mire supporting a number of different types of wetland vegetation and several uncommon species. It is a well defined site, surrounded on three sides by improved grassland and adjoining a mixed deciduous woodland. Although parts of the site are accessible to stock, grazing appears to be only occasional.

Most of the mire is covered by a patchy willow *Salix cinerea*, birch *Betula pubescens* and alder *Alnus glutinosa* carr. A scattering of bay willow *Salix pentandra* is also present. The flora in the tree-root pools is locally well developed with bogbean *Menyanthes trifoliata* and water horsetail *Equisetum fluviatile* occurring. Stands of royal fern *Osmunda regalis* occur in some of the drier areas.

The more open parts of the site consist of wet marginal acid pasture and a central area dominated by purple moor-grass *Molinia caerulea*, this forming the core of the mire system. The pasture is typically sedge-rich, with a variety of herb species such as marsh violet *Viola palustris*, marsh pennywort *Hydrocotyle vulgaris* and lesser skullcap *Scutellaria minor*. The core area is much more heterogeneous. The drier areas tend to be rather species-poor, with petty whin *Genista anglica* occurring locally. Other parts are more heathy and the structure includes hummocks of bog-mosses *Sphagnum spp.*. Here cranberry *Vaccinium oxycoccos* and orchid species *Dactylorhiza spp.* grow. However in the wettest and most low-lying area there appears to have been some nutrient enrichment and this has given rise to a mosaic of fen-like communities. Clumps of greater tussock-sedge *Phragmites australis*, together with interesting plants such as marsh arrowgrass *Triglochin palustris*, common cottongrass *Eriophorum angustifolium*, bog pondweed *Potamogeton polygonifolius* and algae of the *Chara* species. Both round-leaved sundew *Drosera rotundifolia* and butterwort *Pinguicula vulgaris* occur in this area.

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