

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

SITE OF SPECIAL SCIENTIFIC INTEREST CITATION

CARMARTHENSHIRE

**CREIGIAU LLANSTEFFAN
(LLANSTEPHAN CLIFFS)**

Date of Notification: 1990

National Grid Reference: SN 351100

O.S. Maps 1: 50,000 Sheet number: 159
1: 25,000 Sheet number: SN 31

Site Area: 3.2 ha

Description:

The site shows a coastal section exposing the *Psammosteus* Limestone horizon and overlying sandstones and shales, within the Red Marl Group of the Lower Old Red Sandstone. Here the *Psammosteus* Limestone is made up of a series of very mature calcrete profiles, closely stacked and coalescing. The overlying sediments have examples of both large fluvial sand bodies formed by the main rivers depositing the Red Marls and deposits of small, 'interfluvial' distributaries which formed muddy, sometimes meandering, channels with little sand, but much intraclast conglomerate. This locality is a key one for understanding the geomorphology of the Welsh Lower Old Red Sandstone alluvial plain. The site has been used in publications outlining the significance of the calcretes (as it has some of the best examples of very mature profiles), and the nature of the drainage pattern of the alluvial plain in the Lower Old Red Sandstone.

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