

Geological Landscape

Aspect Area Name	Llanafan-Fawr	<p>Crown Copyright. All rights reserved CCW 100018813 2005</p>
Aspect Area Classification	Mountain and upland valley/Undulating upland terrain and dissected plateau/Upland plateau (Level 3)	
Aspect Area Code	BRCKNGL873	
Date Of Survey	27/11/2003	

Description

What is the geographical and topographical character of this area?	Lower ground of upland plateau in E to SE dipping Lower Silurian mudstones, dissected by shallow E-W fault controlled tributary valleys and by deeper NW-SE Chwefri valley. Boulder clay on plateau and in valleys, some peat, alluvium and alluvial fans along river. N-S tributary to Irfon along ridge to W.
What is the characteristic Level 3 component of the area?	Other (Dissected upland plateau)
Which of the following is a significant contributor to the geological character of the area?	Stratigraphic formation(s) (Lower Silurian (Chwefri Formation)) Superficial deposits (Boulder clay, alluvium, alluvial fans) Structural features (E-W faults)
What additional subsidiary Level 3 components are notable?	Other (Tectonically controlled topography)
What Level 4 components are notable in this area?	Plateau Alluvial fan (active)
What active geological and geomorphological processes are significant in this area?	Fluvial
Are there components of significant hydrological importance?	Yes (Chwefri)
Are there any pedological processes that are significant in the area or have had a landscape forming effect?	Yes (Non permeability soils)
Is there current mineral extraction?	No
Has there been mineral extraction in the past?	No
Are there SSSI/GCR sites here?	No
Are there geological SINC, 2nd tier, or RIGS sites in the area?	No

Evaluation

Value	Moderate (Lower Silurian Chwefri Formation trough succession)
Condition	Good (Plateau)
Trend	Constant

Recommendations

Existing management	Generally Appropriate
Principal management recommendations	Conserve as existing
Guideline	Long Term (Maintain limited exposures in areas of current (agricultural) land use)

Tolerance To Change

Are there any significant threats to the current integrity and condition of the Earth Heritage features of the area?	Not known
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Aspect Area Boundary

To what level was this information site-surveyed?	Level 3
At 1:10,000, how much of the Aspect Area boundary is precise?	None
What baseline information source was used for Aspect Area boundary mapping?	Other (1:25 000 OS Explorer Map Sheets; 1:50 000 BGS Geological Map Sheets; Digital Terrain Model compiled from OS panorama digital terrain data (50m resolution))
If OS Data was used, what was the scale?	1:25,000
What is the justification for the Aspect Area boundaries?	Ridges to W, S, N and E

Evaluation Matrix

Evaluation Criteria: Research Value	Moderate (Lower Silurian Chwefri Formation trough succession)
Evaluation Criteria: Educational Value	Unassessed
Evaluation Criteria: Historical Value	Moderate (Lower Silurian Chwefri Formation trough succession)
Evaluation Criteria: Rarity / Uniqueness	Moderate (Lower Silurian Chwefri Formation trough succession)
Evaluation Criteria: Classic Example	Low (Lower Silurian Chwefri Formation trough succession)
Evaluation Criteria: Overall Evaluation	Moderate (Lower Silurian Chwefri Formation trough succession)
Justification of overall evaluation	Lower Silurian Chwefri Formation trough succession

Bibliography

List the key sources used for this assessment	1:50 000 BGS Geological Map Sheet 196 Builth (draft, unpubl.); Digital Terrain Model compiled from OS panorama digital terrain data (50m resolution); 1:100 000 Groundwater Vulnerability Map, Environment Agency, Sheet 28, Powys, 1996; 1:625 000 Geological Map of the UK: Quaternary Geology, S sheet, 1977; 1:25 000 OS Explorer Map Sheet 200 Llandrindod Wells and Elan Valley
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Assessment

Additional Assessments	
Additional Comments	

Monitoring

Has the information ever been verified in the field? No

Does this area have a special or functional link with an adjacent area? No

Description

If Classification is "Other", specify here

Recommendations

Existing management remarks: