

Strathclyde Group

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Strathclyde Group ([SYG](#)), Carboniferous, Midland Valley of Scotland

Name

Previously Upper Oil Shale Group (URO); Lower Oil Shale Group (LRO); Oil-Shale Group; Calciferous Sandstone Measures (CSM)

Lithology

Sandstone, siltstone, mudstone and seatrock, with some coal seams, ironstones and limestones; non-marine faunas common; marine faunal bands rare except in top part.

Stratotype

Glasgow area, Strathclyde, Scotland. (Reference Sections: See Type Sections of components: [Clyde Plateau Volcanic Formation](#), [Kirkwood Formation](#), [Lawmuir Formation](#), [Gullane Formation](#), [Aberlady Formation](#), [West Lothian Oil-Shale Formation](#), [Arthur's Seat Volcanic Formation](#) and [Garleton Hills Volcanic Formation](#)). Reference Section: coastal sections, east Fife: Pathhead Beds, Sandy Craig Beds, Pittenweem Beds, Anstruther Beds, Fife Ness Beds.

Lower and upper boundaries

Definition of Lower Boundary: In west at base of [Clyde Plateau Volcanic Formation](#); in east at base of [Gullane Formation](#) or [Arthur's Seat Volcanic Formation](#). Conformable or (locally) unconformable. Definition of Upper Boundary: Conformable at base of [Lower Limestone Formation](#).

Thickness

To c.1500m.

Geographical limits

Midland Valley of Scotland.

Age

Chadian Age (CI) — Brigantian Age (CX).

References

Paterson, I B and Hall, I H S, 1986. Lithostratigraphy of the late Devonian and early Carboniferous rocks in the Midland Valley of Scotland. British Geological Survey Report, 18/3.

Chisholm, J I, MacAdam, A D, Brand, P J. 1989. Lithostratigraphical classification of Upper Devonian and Lower Carboniferous rocks in the Lothians. British Geological Survey Technical Report, WA/89/26.

Forsyth, I H and Chisholm, J I, 1977. The geology of east Fife. Memoirs of the Geological Survey of Great Britain.

McGregor, A G, 1960. Divisions of the Carboniferous on Geological Survey Scottish maps. Bulletin of the Geological Survey of Great Britain, No.16, p.127-130.

Formal subdivisions

Western Midland Valley of Scotland:

[Birgisdale Formation](#)

[Laggan Cottage Mudstone Formation](#)

[Clyde Plateau Volcanic Formation](#)

[Kirkwood Formation](#)

[Lawmuir Formation](#)

Fife:

[Fife Ness Formation](#)

[Anstruther Formation](#)

[Pittenweem Formation](#)

[Sandy Craig Formation](#)

[Pathhead Formation](#)

West Lothian:

[Arthur's Seat Volcanic Formation](#)

[Gullane Formation](#)

[West Lothian Oil Shale Formation](#)

East Lothian:

[Garleton Hills Volcanic Formation](#)

[Gullane Formation](#)

[Aberlady Formation](#)

References

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