Tables

(Table 1.1) GCR Old Red Sandstone sites and proposed sites, with main criteria for their selection. Continued on page 7.

Site Orcadian Basin	Age	Selection criteria
Easter Rova Head	Mid-Devonian	Spectacular sea-cliff exposures of conglomerates.
Footabrough to Wick of Watsness	Mid-Devonian	Continuous sea-cliff exposures of Walls Formation.
The Cletts, Exnaboe	Mid-Devonian	Continuous sea-cliff exposures of cyclic lacustrine, fluvial and aeolian facies of the Brindister Flagstone Formation. Also a fossil fish GCR site.
Melby: Matta Taing to Lang Rigg (P)	Mid-Devonian	Fossil fish GCR site. Spectacular sea-cliff and foreshore exposures of lacustrine Melby Formation.
South Stromness Coast Section	Mid-Devonian	Best section in Orkney through the Caithness Flagstone Group.
Taracliff Bay to Newark Bay	Mid-Devonian	Thickest, best-exposed section of the Eday Group.
Greenan Nev Coast, Eday	Mid-Devonian	Best section through the Eday Marl Formation in Orkney.
South Fersness Bay, Eday	Mid-Devonian	Well-exposed, accessible section of the Eday Group.
Yesnaby and Gaulton Coast Section	Early Devonian	Superb sea-cliff sections of the Yesnaby Sandstone Group, including unique aeolian facies. Also sections in the Lower Stromness Flagstone Formation containing the best stromatolites in the Orcadian Basin.
Old Man of Hoy Coast	Late Devonian	Spectacular sea cliffs of the Hoy Sandstone Formation, including the Iloy Volcanic Member.
Bay of Berstane (P)	Mid-Devonian	Unique onshore evidence of marine-influenced deposition in the Middle Devonian Eday Marl Formation.
Red Point	Mid-Devonian	Spectacular lake-margin deposits and basement-cover topography. Well-exposed lacustrine cycles of the
Pennyland (Thurso–Scrabster)	Mid-Devonian	Orcadian lake (Upper Caithness Flagstone Group). Also a fossil fish GCR site.
John o'Groats (P)	Mid-Devonian	Fossil fish GCR site. Type locality of John o'Groats Sandstone Group. Spectacular exposures of fish-bearing
Wick Quarries	Mid-Devonian	lake deposits and shrinkage cracks in the Lower Caithness Flagstone Group in an otherwise poorly exposed part of the Orcadian Basin.

Achanarras Quarry (P)	Mid-Devonian	Fossil fish GCR site, the richest locality in Great Britain. Type locality of Achanarras Limestone Member (Fish Bed), of importance regionally as a marker horizon between the Lower Caithness Flagstone Group and Upper Caithness Flagstone Group.
Sarclet (P)	Early Devonian	Sea-cliff sections in the Lower Devonian Sarclet Group. Complete section of the Balnagown
Tarbat Ness	Mid-Devonian and Late Devonian	Group and of the apparently conformable junction with the Strath Rory Group. Dramatic exposure of Middle Old Red
Loch Duntelchaig (Dun Chia Hill)	Mid-Devonian	Sandstone conglomerates resting unconformably on Dalradian metasedimentary rocks and late Caledonian granites in the south-west of the Orcadian Basin. Fossil fish GCR site. Classic fossil fish
Tynet Burn (P)	Mid-Devonian	locality yielding whole, well-preserved specimens, and important evidence on the nature of the southern margin of the Orcadian Basin at the time of maximum (Achanarras) lake extent.
Den of Findon, Gamrie Bay and New Aberdour (P)	Mid-Devonian (also Early Devonian)	Fossil fish GCR site, with superb coast sections at Gamrie Bay, Pennan (Lower ORS–Middle ORS) unconformity), New Aberdour and Quarry Haven. Fossil plant GCR site. World renowned
Rhynie (P)	Early Devonian	floral and arthropod lagerstätte. Exceptional preservation in a hydrothermal spring deposit.
Midland Valley of Scotland and adjacent areas		
The Toutties (P)	Mid-Silurian	Fossil fish GCR site. Oldest (Mid-Silurian) Old Red Sandstone facies in Scotland containing fish and important arthropod fauna.
Dunnottar Coast Section (P)	Mid-Silurian-Early Devonian	Magnificent exposures in dramatic sea cliffs of conglomerates and sandstones. Fine coastal sections of conglomerates
Crawton Bay	Late Silurian–Early Devonian	and volcanics. Also a Caledonian
North Esk River	late Early Devonian	igneous rocks GCR site Best sections of the Strathmore Group Sea cliffs exposing one of the best
Milton Ness (P)	Late Devonian–Early Carboniferous	sections of mature calcrete development in Scotland in the Kinnesswood Formation.

Aberlemno Quarry (P)	Early Devonian	Fossil fish and Palaeozoic palaeobotany GCR site. Also important for arthropod fossils. Important for Dundee Flagstone and Scone Sandstone formations. Fossil fish GCR site. Unique lacustrine
Tillywhandland Quarry (P)	Early Devonian	facies in the Midland Valley of Scotland in the Dundee Flagstone Formation containing fish, arthropods and trace fossils.
Whiting Ness	Early and Late Devonian	Sea cliffs exposing Early Devonian sandstones unconformably overlain by Late Devonian sandstones, the units being separated by a spectacular unconformity. Type locality of the Campsie Limestone
Tay Bank	Early Devonian	Member, including the Stanley Limestone, representing mature calcrete development and providing an important stratigraphical marker horizon.
Glen Vale (P)	Late Devonian	Important sandstones (the Knox Pulpit Sandstone Formation) of aeolian origin.
Wolfs Hole Quarry (P)	Early Devonian	Fossil fish GCR site exposing the highest lava on the southern side of the Strathmore Basin.
Auchensail Quarry (P)	Early Devonian	Fossil plant GCR site yielding a well-preserved assemblage of land plants in the Teith Sandstone Formation.
Siccar Point to Hawk's Heugh (E)	Late Devonian-Early Carboniferous	Classic section at Siccar Point (Hutton's Unconformity). Fossil fish GCR site at Hawk's Heugh. Proposed extension to include the intervening superb sections of fluvial and ?aeolian sandstones at Pease Bay.
Largs Coast, Ayrshire	Late Devonian	Important coastal exposures in sandstones illustrating fluvial, braided river sandbody morphologies.
North Newton Shore, Arran	Late Devonian	One of the three classic Old Red Sandstone unconformities recognized by James Hutton.
Southern Scotland and the Lake District		
Palmers Hill Rail Cutting	Late Devonian	Exposures of calcrete in the Scottish Border Basin.
Pooley Bridge	Early Devonian	Best section of Old Red Sandstone facies conglomerates in north-west England.
Anglo-Welsh Basin		
Porth-y-Mor	Early Devonian	One of the best, most accessible Old Red Sandstone sections in the Anglo-Welsh Basin.

Devil's Hole (P)	Late Silurian-Early Devonian	Historically important fossil fish GCR site, with important 'Downtonian'-Dittonian' boundary exposure.
Oak Dingle, Tugford (P)	Early Devonian	Fossil fish GCR site with well-documented sedimentological analysis.
The Scar	Late Silurian	Good inland exposure of the Raglan Mudstone Formation. Best, most complete inland section
Cusop Dingle (P)	Late Silurian-Early Devonian	through topmost P∎ídolí and lowermost Devonian strata.
Sawdde Gorge (E)	Late Silurian-Early Devonian	Proposed extension of GCR site to include higher P∎ídolí and basal Devonian strata.
Pantymaes Quarry (P)	Early Devonian	Excellent exposure of Lochkovian channel sandstones and floodplain mudstone facies, internationally known for its arthropod trackways.
Heol Senni Quarry	Early Devonian	GCR fossil fish site. Also representative of the Senni Formation.
Caeras Quarry	Early Devonian	Best exposure of local pebbly facies in the Brownstones Formation. Classic fossil plant GCR site. Also
Craig-y-Fro Quarry (P)	Early Devonian	Important for exposure of the Senni Formation.
Abercriban Quarries	Late Devonian-Early Carboniferous	Type locality of the Grey Grits Formation.
Mon y Waen (P)	Late Devonian	Potential fossil fish GCR site. Also important for exposure of the Plateau Beds Formation.
Duffryn Crawnon (P)	Late Devonian	Type locality of the Plateau Beds Formation, induding possible aeolian facies.
Craig-y-cwm (P)	Late Devonian-Early Carboniferous	Representative section of the Quartz Conglomerate Group.
Ross-on-Wye, Royal Hotel	Early Devonian	Excellent, well-documented, accessible section of the Brownstones Formation.
Wilderness (Land Grove) Quarry	Early Devonian	Fossil fish GCR site with superb exposure of the lowermost strata of the Brownstones Formation.
Lydney	Late Silurian-Early Devonian	Fossil fish GCR site with good section of the Psammosteus Limestone horizon.
Albion Sands and Gateholm Island (P)	Late Silurian-Early Devonian	Magnificent sea-cliff and foreshore exposures of Wenlock marine strata and the overlying Old Red Sandstone.
Little Castle Head (P)	Late Silurian-Early Devonian	Reference section of the P∎ídolí Sandy Haven Formation and of the Townsend Tuff Bed.
West Angle Bay (North)	Late Silurian-Early Carboniferous	Continuous section of the entire Old Red Sandstone succession and of the underlying and overlying strata.

		Superb, accessible dip section exposing
Freshwater West (P)	Late Silurian-Early Carboniferous	the entire Old Red Sandstone
		succession.
Freshwater East–Skrinkle Haven	Lata Silurian Early Carboniforous	Excellent strike section of the entire Old
('Tenby Cliffs')	Late Silurian-Early Carboniferous	Red Sandstone succession.
		Superb exposures of stacked carbonate
Llansteffan	Lata Silurian Early Devenion	palaeosols of the Chapel Point
	Late Silurian-Early Devonian	Calcretes Member (Psammosteus
		Limestone).
Portishead	Early and Late Devonian	Best section of the Old Red Sandstone
Foliisileau		succession east of Severn Estuary.
Glenthorne	Mid-Devonian	Best section of Old Red Sandstone
Gientilome	Mid-Devolian	facies south of the Bristol Channel.
P Potential site (most of these sites are	9	
confirmed GCR sites for their		

E Proposed extension to site

palaeontology)

(Table 1.2) GCR sites in the Old Red Sandstone described in the fossil fishes GCR volume. After Dineley and Metcalf (1999). Continued on page 9.

Site Orcadian Basin	Stratigraphy	Criterion	Treatment in this volume Full description FD Summary description SD Not described ND
Orcaulan Basin		One of oldest fish-bearing	
Westerdale Quarry	Mid-Devonian; Eifelian	horizons in Orcadian Basin; complete specimens	ND
Achanarras Quarry	Mid-Devonian; Eifelian–Givetian boundary	Richest Old Red Sandstone fish site in Britain	FD
Cruaday Quarry	Mid-Devonian; Eifelian–Givetian boundary*	Best Old Red Sandstone fish site in Orkney	ND
Black Park, Edderton	Mid-Devonian; Eifelian–Givetian boundary*	Fish well preserved in three dimensions	ND
Den of Findon, Gamrie	Mid-Devonian; Eifelian–Givetian boundary*	Prolific fish fauna	SD
Tynet Burn, Elgin	Mid-Devonian*	Rich fish fauna and historically important	FD
Melby	Mid-Devonian; Eifelian–Givetian boundary*	Northernmost occurrence of Achanarras horizon	FD
Papa Stour	Mid-Devonian; Eifelian–Givetian boundary*	Fish in sedimentary rocks in predominantly volcanic sequence	ND
Dipple Brae	Mid-Devonian	Fish fauna younger than that of the Achanarras horizon	ND
Spinal Quarry	Mid-Devonian	Rare fish fauna, including onl Mid-Devonian cephalaspid	^y ND
Banniskirk Quarry	Mid-Devonian	First ORS site to yield fishes	ND
Holborn Head Quarry	Mid-Devonian; mid-Givetian	10–11 fish species, including Osteolepis panderi	ND

Weydale Quarry	Mid-Devonian	Well-preserved Osteolepis panderi and Dipterus valenciennesi	ND
Pennyland	Mid-Devonian; Givetian	Many fish specimens from several fish-bearing horizons	FD
John o'Groats	Mid-Devonian; late Givetian	Youngest fish fauna in Caithness	SD
The Cletts, Exnaboe	Mid-Devonian; late Givetian	Northernmost late Givetian fish site	FD
Sumburgh Head	Late Mid-Devonian; late Givetian	Possibly youngest fish fauna of the Orcadian Basin	ND
Midland Valley of Scotland			
The Toutties	Late Wenlock	Oldest Old Red Sandstone facies rocks in Scotland; unique fish fauna	FD
Tillywhandland Quarry	Early Devonian	One of best Early Devonian fish sites in Scotland	FD
Aberlemno Quarry	Early Devonian	Best surviving of the famous Turin Hill fish sites; also a fossil plant GCR site ((Table 1.3))	FD
Wolf's Hole Quarry	Early Devonian	Unique pteraspid fish fauna	FD
Whitehouse Den	Early Devonian	Fossil acanthodian fish	ND
Grampian Highlands			
Ardmore-Gallanach	Late Silurian-Early Devonian	Unique early fish fauna in sediments associated with Lorne lavas	ND
Bogmore, Muckle Burn	Earliest Late Devonian (Frasnian)	Diverse fish fauna with over 15 species Diverse late Devonian fish	ND
Scaat Craig	Late Devonian	fauna and a distinctive tetrapod	ND
* Achannaras Fish Bed horizon			
Southern Uplands			
Oxendean Burn	Late Devonian	Abundant fragments of Bothriolepis	ND
Hawk's Heugh	Late Devonian	Only British occurrence of <i>Remigolepis</i>	
Anglo-Welsh Basin		Kenngelepie	
-		Internationally renowned for	FD
Ludford Lane and Ludford Corner	Silurian; P ∎ ídolí	rich fish fauna; see also (Table 1.4)	ND
Ledbury cutting	Silurian; P∎ídolí	Historical site yielding complete specimens of <i>Auchenaspis</i> and <i>Hemicyclaspis</i>	ND
Temeside, Ludlow	Silurian: P∎ídolí	Historical site in Temeside Mudstone Formation yielding a rich fish fauna including <i>Hemicyclaspis murchisoni</i>	ND

Tite's Point (Purton Passage)	Silurian; Ludlow–P∎ídolí	<i>Thelodus parvidens</i> fish fauna, allowing correlation with Ludlow Bone Bed, and source of <i>Cyathaspis</i>	
Lydney	Late P∎ídolí–Early Devonian	Sequence of vertebrate faunas, including specimens of <i>Sabrinacanthus</i>	FD
Downton Castle area (networ of 4 sites)	^k Early P ∎ ídolí	Several quarries in Downton Castle Sandstone yielding vertebrate remains	ND
Bradnor Hill Quarry	Late P∎ídolí	Late P∎ídolí thelodont fauna	ND
Devil's Hole	P∎ídolí–Lochkovian	Fish fauna straddling Downtonian-Dittonian boundary	SD
Oak Dingle, Tugford	Lochkovian (Dittonian)	Near-strike section of fish- bearing beds; earliest record of <i>Weigeltaspis</i>	SD
Cwm Mill	Lochkovian (Dittonian)	Unique preservation of complete cephalaspids, including three new species; also specimens of <i>Rhinopteraspis crouchi</i>	ND
Wayne Herbert Quarry	Lochkovian (Dittonian)	Well-preserved, diverse fish fauna	Nb
Besom Farm Quarry	Lochkovian (Dittonian)	Rich, diverse fish fauna, including 7 type specimens and sole occurrence of 5 of them	ND
Heol Senni Quarry	Lochkovian–Pragian	Only occurrence of Althaspis senniensis	FD
Portishead	Late Devonian	Unique fish fauna, including only British occurrence of <i>Groenlandaspis</i>	FD
Prescott Corner	Late Devonian (Frasnian)	Extensive Late Devonian fish fauna	ND
Mon y Waen	Late Devonian	Bothriolepis and Holoptychius in Upper Old Red Sandstone	FD

(Table 1.3) GCR sites in the Old Red Sandstone described in the Palaeozoic palaeobotany GCR volume. After Cleal and Thomas (1995).

Site	Stratigraphy	Criterion	Treatment in this volume Full description FD Summary description SD
			Not described ND
Orcadian Basin			
Sloagar	Mid-Devonian; Late Givetian	Only occurrence of Svalbardi	a ND
Clouga	ind Devenan, Eate enterial	in Britain	
		Important floral assemblage i	n
Bay of Skaill	Mid-Devonian	Sandwick Fish Bed; type	ND
Day Of Skalli		locality of Protopteridium	ND
		thomsonii	

Rhynie	Early Devonian	Renowned Devonian palaeobotanical site; 22 species unique to this site	FD
Midland Valley of Scotland		Best example of	
Turin Hill	Early Devonian	<i>Zosterophyllum</i> Zone flora in world and type locality of <i>Cooksonia caledonica</i>	FD (as 'Aberlemno Quarry')
Ballanucater Farm	Early Devonian; Emsian	Best Emsian floral assemblage in Britain	ND
Auchensail Quarry	Early Devonian; Emsian	Well-preserved Emsian floral assemblage	FD
Anglo-Welsh Basin			
Targrove Quarry	Early Devonian; Gedinnian	Most diverse rhyniophytoid plant assemblage in world	ND
Capel Horeb Quarry	Late Silurian; Ludfordian–P∎ídolí	Oldest vascular plants in world in Ludlow Series; Long Quarry Formation yielded some rhyniophytoids includin <i>Cooksonia</i>	ND g
Perton Lane	Late Silurian; P∎ídolí	Classic locality and type locality of <i>Cooksonia</i>	ND
Freshwater East	Late Silurian; P∎ídolí	Most diverse Silurian flora in the world	FD
Llanover Quarry	Early Devonian; Siegenian	Classic locality yielding one of most diverse <i>Psilophyton</i> Zone flora in Britain Some of best preserved	f ND
Craig-y-Fro Quarry	Early Devonian	Devonian plants in Britain; locality second only to the Rhynie site in Britain	SD

(Table 1.4) GCR sites in the Old Red Sandstone described in the Silurian stratigraphy GCR volume. After Aldridge *et al.* (2000).

Site	Stratigraphy	Criterion	Treatment in this volume Full description FD Summary description SD Not described ND
Anglo-Welsh Basin			
Marloes	Wenlock–P ∎ ídolí	Classic site showing early transition from marine to Old Red Sandstone facies	ND (included with report for Albion Sands and Gateholm Island)
Albion Sands and Gateholm Island	Ludlow–P ∎ ídolí- Lochkovian	Complete, conformable succession from Ludlow into early Devonian	SD
Freshwater East (South)	Wenlock–P∎ídolí	Wenlock marine strata overlain by Old Red Sandstone; faulted/ unconformable relationship	ND

Ludford Lane and Ludford Corner	Ludlow–P ∎ ídolí	Classic, internationally renowned site traditionally regarded as reference section for Silurian-Devonian boundary; earliest known land ND animals, early plants (see (Table 1.3)), unusual arthropods and fish remains in Ludlow Bone Bed
Brewin's Bridge/Canal	Ludlow–P∎ídolí- Carboniferous	One of few sites in central England exposing marine Silurian-Old Red Sandstone ND junction, including Ludlow Bone Bed
Capel Horeb Quarry	Ludlow–P ∎ ídolí	Good section of unconformity between Ludlow and P∎ídolí; internationally important plant site ((Table 1.3))
Little Castle Head	P∎ídolí	Old Red Sandstone facies rocks; Townsend Tuff Bed
Lower Wallop Quarry	Ludlow–P ∎ ídolí	Marine to Old Red Sandstone transition later here, well into ND P∎ídolí

(Table 1.5) GCR sites with Old Red Sandstone sedimentary rocks described in the Caledonian igneous rocks volume. After Stephenson *et al.* (1999).

Site	Stratigraphy/ radiometric age	GCR selection criteria
Eshaness Coast	Mid-Devonian	Representative of Eifelian Eshaness volcanic succession, NW Shetland.
Ness of Clousta to the Brigs	Mid-Devonian	Representative of Givetian Clousta volcanic rocks, Walls, Shetland.
Point of Ayre	Mid-Devonian	Representative of Givetian Deerness Volcanic Member, mainland Orkney.
Too of the Head	Mid-Devonian	Representative of Givetian Hoy Volcanic Formation, Isle of Hoy, Orkney.
South Kerrera	Late Silurian to Early Devonian	Representative of Lorn Plateau Volcanic Formation. Exceptional examples of subaerial lava features and interaction of magma with wet sediment.
Ben Nevis and Allt a'Mhuilinn	Mid-Silurian 425 Ma	Representative of Ben Nevis Volcanic Formation. Exceptional intrusive tuffs. Internationally important as example of exhumed root of caldera, and historically for development of cauldron subsidence theory.

Stob Dearg and Cam Ghleann	Mid-Lochkovian 421 ± 4Ma	Representative of succession in eastern part of Glencoe caldera, including basal sedimentary rocks. Exceptional rhyolites, ignimbrites and intra-caldera sediments. Possible international importance for radiometric dating in conjunction with palaeontology close to Silurian–Devonian boundary.
Crawton Bay*	Late Silurian–Early Devonian	Representative of Crawton Volcanic Formation. Representative of 'Ferrydean' lavas and
Scurdie Ness to Usan Harbour	Early Devonian	'Usan' lavas, comprising lower part of Montrose Volcanic Formation. Representative of 'Ethie' lavas,
Black Rock to East Comb	Early Devonian	comprising upper part of Montrose Volcanic Formation. Representative of eastern succession of Ochil Volcanic
Balmerino to Wormit	Early Devonian (Lochkovian) 410.6 ± 5.6 Ma	Formation. Possible international importance for radiometric dating in conjunction with palaeontology close to Silurian–Devonian boundary. Representative of western succession of
Sheriffmuir Road to Menstrie Burn	Early Devonian 416 ± 6.1 Ma	Ochil Volcanic Formation. Exceptional topographic expression of Ochil fault-scarp. Representative of diorite stocks,
Tillycoultrie	Early Devonian 415–410 Ma	intruded into Ochil Volcanic Formation, surrounded by thermal aureole and cut by radial dyke swarm. Exceptional examples of diffuse contacts due to metasomatism and contamination, with 'ghost' features inherited from country rock.
Port Schuchan to Dunure Castle	Early Devonian	Representative of Carrick Hills volcanic succession. Exceptional features resulting from interaction of magma with wet sediment are of international importance. Representative of inlier of Carrick Hills
Culzean Harbour	Early Devonian	volcanic succession. Exceptional features resulting from interaction of magma with wet sediment are of international importance. Representative of most southerly inlier
Tumberry Lighthouse to Port Murray	Early Devonian	of Carrick Hills volcanic succession. Exceptional features resulting from interaction of magma with wet sediment are of international importance.

Representative of volcanic rocks in the SE of the Southern Uplands.

Exceptional vent agglomerates, block lavas, flow tops and interflow

high-energy volcaniclastic sediments.

*described in this volume

References

Ner	Age	Selection criteria
Orcardian Basia	and the second se	
Easter Rosa Head	Mid-Devonian Mid-Devonian	Spectacular sea-chill exponents of conglomerates. Continuous sea-chill exponents of Walls Formation.
Footabrough to Wick of Watsmess The Cletts, Exendent	Mid-Devonian Mid-Devonian	Continuous sea diff exponents of Walls Formation. Continuous sea diff exponents of cyclic lacustrine, flavial and avoilan factors of the Brindister Flagston
the Clean, Establish	Mad-Devenian	Communities near-test exponences of ejectic factorization, Barrial and acontain factors of the threadoury Plagneon Formation, Also a found finh GCR site.
Selbs: Matta Taing to Long Rigg (P)	Mid-Devonian	Formation. Also a town two of a new off and foreshore exposures of lacostrine Melby Formation.
fouth Strommens Coast Section	Mid-Devonian	Best section in Orknyy through the Calibration Englisher Group.
Farwill Bay to Newark Bay	Mid-Devonian	Thickest, best-exposed section of the Edge Group.
Greenan New Coast, Eday	Mid-Devenian	Best section through the fiday Mart Formation in Orkney
iouth Fernincia Bay, Eday	Mid-Devonian	Well-exposed, accessible section of the Eday Group.
feanaba and Gaulton Coast Section	Early Devonian	Superb sea-cliff sections of the Yesnahy Sandbione Group, including unique acolian factors. Also section
and the product Court Protocol		in the Lower Stronneys Flagstone Formation containing the best stronatolites in the Orçadian Basis.
Old Man of Hoy Coase	Late Devonian	Spectacular sea chills of the Hoy Sandstone Formation, including the Hoy Volcanic Member.
has of Brestater (P)	Mid-Devonian	Unique coshore evidence of marine-influenced deposition in the Middle Devonian Eduy Ma
		Frendanticas
Red Point	Mid-Devontan	Spectacular lake-margin deposits and basement-cover topography. Welkesposed lacustrise cycles of the Orcadian lake (Dpper Calibasia Hagatone Geoup). Also a few
Pennyland (Thurso-Scrabster)	Mid-Devonian	Well-exposed lacustrise cycles of the Orcadian lake (Dpper Caliboras Ragatone Geoup). Also a loss
		fish CCR site
toke o'Grown (P)	Mid-Devonian	Fossil fash GCR site. Type locality of John o'Groam Sandwone Group.
Wick Quarries	Mid-Devoniae	Spectacular exposures of fish-beating lake deposits and shrinkage cracks in the Lower Calibor-
Charles States		Hagatone Group in an otherwise poorly exposed part of the Orcadian Basin.
Achanamas Quarry (P)	Mid-Deventan	Found theb GCR site, the richest locality in Great Britain. Type locality of Achamatran Limentone Membr
		(Fish Bed), of importance regionally as a marker horizon heneven the Lower Cathoness Hapton
		Group and Upper Calthness Hapitone Group.
Sandiet (PS	Early Devonian	Sea-cliff sections in the Lower Devonian Sarclet Group.
Earbot News	Mid-Devonian and Late	Complete section of the Balnagows Group and of the apparently conformable junction with the Strat
	Devonian	Roty Group.
Loch Duntelchaig (Dan Chia Hill)	Mid-Devontan	Dramatic exposure of Middle Old Red Sandstone conglomerates resting unconformably on Dairadia
		metasedimentary rocks and late Caledonian granites in the south-west of the Orcadian Basin.
Typer Burn (P)	Mid-Devonian	Forsil lish GCR site. Classic found fish locality yielding whole, well-preserved specimens, and important
		evidence on the nature of the southern margin of the Orcadian Basin at the time of maximum
States and the second second	the state of the s	(Achanarras) lake extent.
Don of Findon, Gamrie Bay and New	Mad-Devonian talso Early	Found link GCB size, with superb coast sections at Gamele Bay, Pennan (Lower ORS-Maldle OB unconformity), New Abordour and Quarty Harves.
Abendosar (P)	Devonian)	unconformity), New Aberdoar and Quarry Haven.
Rhymie (P)	Early Desonian	Found plane GCR size. World renowned floral and arthropod lagerstater. Exceptional preservation in
		hydrothermal spring deposit.
Midland Yalley of Scotland and a	discout stream	NAME OF A DESCRIPTION O
The Youtties (P)	Mid-Silurian	Found flah GCR size. Oldest (Mad-Silurian) Old Red Sandstone factors in Sectland containing fish an
	and a state of the second	important arthropoil fauna
Duniottar Coast Section (P)	Mid-Silurian-Early Devonian	Magnificent exponences in dramatic sea cliffs of complomerates and sandstones. Fine coastal sections of complomerates and roleanics. Also a Caledonian igneous racks GCR site
Crawton Bay	Late Silurian-Early Devonian	Fine coastal scenario of componenties and roleance. And a Calendonian ignorus PACS CALE and
North Esk River	hate Early Devonian	Best sections of the Strathmore Group
Milton New (P)	Late Devenian-Early Carbonileman	Sea cliffs exposing one of the best sections of manare calorete development in Scotland in th
and the second		Kinacewood Formation.
Abodosso Quary (P)	Early Devonian	Fossil fash and Palacenceic palacelectary GCR site. Also important for arthropod fissils. Important & Dander Flagstore and Score Sandscore formations.
Tillywhandland Quarry (P)	Early Devonian	Fossil fish GCR site: Unique lacustrine factes in the Midland Valley of Scotland in the Dander Flagston
(allowing the grant (it)	sarry secondar	Formation containing fish, arthropods and trace foodls.
Whiting New	Early and Late Devonian	Sea diffs exposing Early Devonian sandstones anconformably overlain by Late Devonian sandstones, th
a strand serve	The first the overlapped	units being separated by a spectacular unconformity
Site	Age	Selection criteria
Silte Tay Bunk	Early Devenian	Type locality of the Campnie Limencese Member, including the Stanley Limensone, representing mature
Tay Bunk	Early Devonian	Type locality of the Campnie Limencese Member, including the Stanley Limensone, representing mature
Tay Bunk Glen Vale (P)	Early Devonian	Type locality of the Campuse Linnerscore Member, including the Stanley Linnerscore, representing main calcrete development and providing an important stratigraphical marker horizon. Important sandscores plue Knox Polyis Sandscore Formation) of acolian origin.
Tay Bunk Glen Vale (P) Wolf's Hole Quarry (P)	Early Devenian Late Devenian Early Devenian	Type locality of the Compute Innectone Member, including the Statisty Lineations, representing makes calcrest development and providing an important stratignephical analyte horizon. Important statistics the Koon Polph Statisticol Formation of acollase origin. Found this CCS also exposing the highest laws on the readment wide of the Stratisticner Basin.
Tay Bunk Glen Vale (P) Wolf's Hole Quarry (P)	Early Devonian	Type locality of the Campus Limestone Member, including the Suadry Limestone, representing make ocheres devicespresent and providing an important stratingriphical analysis buttom. Inspirents studiescose the Koon Polph Standarone Formationa J of acolian origin. Frouid this CGM size exposing the buttom limit condense side of the Korathonee limits. Found plant GCR size yielding a well-preserved assemblage of land plants in the Trefit Standardson and plant of the studies of the Standardson standardson standardson and the Standardson and plants in the Trefit Standardson and the Standardson and the Standardson standardson and the Standardson and the Standardson standardson and the Standardson and the the Standardson
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Tay Bank Glen Yale (P) Wolf's Hole Quarry (P) Inchemail Quarry (P)	Early Devonian Late Devonian Early Devonian Early Devonian Late Devonian-Early	Type locality of the Campus Limestone Member, including the Suadry Limestone, representing make ocheres devicespresent and providing an important stratingriphical analysis buttom. Inspirents studiescose the Koon Polph Standarone Formationa J of acolian origin. Frouid this CGM size exposing the buttom limit condense side of the Korathonee limits. Found plant GCR size yielding a well-preserved assemblage of land plants in the Trefit Standardson and plant of the studies of the Standardson standardson standardson and the Standardson and plants in the Trefit Standardson and the Standardson and the Standardson standardson and the Standardson and the Standardson standardson and the Standardson and the the Standardson
Tay Bank Glen Yale (P) Wolf's Hole Quarry (P) Inchemail Quarry (P)	Early Devonian Early Devonian Early Devonian Early Devonian	Type locality of the Campuse Limestone Member, including the Suadry Limestone, representing mature coherent effectiveness and providing an important stratingriphical andurer bortion. Important sandstones the Knox Poliph Sandstone Formation) of actilian origin. Found field CdS size synchronized and the stration of the Stratistical Bank Found and CdS size synchronized and strategies of land plans in the Telfs Sandston Foremation. Games services at Storar Point (flutnows Viscondiomity). Found field CdS size at Howk's Hong Prospond extrasions to include the interventing method sector sandstones and substances to include the interventing method sectors and field and herbits and substances to include the interventing method sectors and field and herbits and substances to include the interventing method sectors and field and herbits and substances.
Tay Bunk Glas Male (P) Wolf's Hole Quarry (P) Machemial Quarry (P) Social Point to Hawk's Brogh (E)	Early Devenian Early Devenian Early Devenian Early Devenian-Early Carlonderium	Type locality of the Campuse Linuciones Member, including the Statisty Linuciston, representing mature colories development and providing as important straingriphical andirect bortions. Important sandscores the Koon Polgin Statistics Formation of a softance origin. Your lish OCCR size systelling a subpresent source source and or the Montheout Built Statistics of the Statistics of Statistics of Statistics and Statistics Formations from the Statistics of Statistics of Statistics of Statistics Formations (Statistics of Statistics of Statistics of Statistics of Statistics Formations) from the Statistics of Statistics of Statistics of Statistics of Statistics of Statistics (Statistics of Statistics
Tay Bank Glen Yale (P) Wolf's Hole Quarry (P) Auchensail Quarry (P) Socar Point to Hawk's Heigh (E) Large Coast, Archite	Early Devenian Early Devenian Early Devenian Early Devenian Early Devenian-Early Carlocoliervian Late Devenian	Type locality of the Campuse Limectone Member, including the Suadry Limestone, representing mature colorest effectiveness and providing as important surgraphical and/arch bottom. Important sandstones the Knox Polyh Sandstone Formation) of actilian origin. Found that CGS size synchrodings a surgicence colorest side of the Structmore Bains. Found apart CGS size synchroding a surgicence of secondary side of the Structmore Bains. Generation. Canone, section, at Sociar Point (Hantow's Unconformity). Found this CGR size at Howk's Hong Prosposed extrastions to include the instructing superb sections of thesial and hardina substones. Proposal Structmore to include the instruction spectration of thesial and hardina substones. Proposal extrastion is include the instruction spectration of thesial and hardina insubstones.
Eep Bank Gêra Yale (P) Wolf's Hole Quarry (P) Sacar Point to Hawk's Heigh (E) Large Gant, Archire	Early Devonian Early Devonian Early Devonian Early Devonian Early Devonian Early Devonian Lare Devonian Lare Devonian	Type locality of the Campuse Linuciones Member, including the Statisty Linuciston, representing mature colories development and providing as important straingriphical andirect bortions. Important sandscores the Koon Polgin Statistics Formation of a softance origin. Your lish OCCR size systelling a subpresent source source and or the Montheout Built Statistics of the Statistics of Statistics of Statistics and Statistics Formations from the Statistics of Statistics of Statistics of Statistics Formations (Statistics of Statistics of Statistics of Statistics of Statistics Formations) from the Statistics of Statistics of Statistics of Statistics of Statistics of Statistics (Statistics of Statistics
Tay Bank Gan Yule (P) Wolf Hole (Darry (P) Auchensial Quarry (P) Social Point to Hawk's Heigh (R) Large Goard, Agribber North Newton Shore, Anna Souther Scottand and the Labe 1	Early Devonian Late Devonian Early Devonian Early Devonian Late Devonian-Early Carbonilervian Late Devonian Late Devonian Late Devonian	Type locality of the Campose Linecosee Member, including the Vaaley Einexione, representing main colverse development and providing as important surgraphical andirect bostion. Important surdivisions the Kone Naph Santanian Formatique and a solution for the Santa Santa Santa Found plant CGR net sydeling a sufficience of santability of all and plants in the Toth Sandhare Found plant CGR net sydeling a sufficience of santability of the Santahare Banks Found plant CGR net sydeling a sufficience of santability of the Santability of the Santability Found plant CGR and Santability of the Interventing mapped sections of Bankal and Barolian susdantees Prave Bay Important costed exposures in suchdate the interventing mapped sections of Bankal and Barolian susdantees David the three stands Odd Bankahasan anasolitomism recognized by James Hanno.
Tay Bank Gao Xulo (P) Walh Side (P) Nachensal Quary (P) Sicce Point in Hawk's Hengh (E) Lang Court, Apphire North Newmo North Nort, Mark Southern Scotland and the Lake J Pointers Will Kall Casting	Early Devonian Late Devonian Early Devonian Early Devonian Early Devonian Late Devonian Late Devonian Late Devonian Diatrici Late Devonian Diatrici Late Devonian	Type locality of the Campoie Limestone Member, including the Vaadry Limestone, representing multi- colerest erectoryspectra and providing as important straingrighted and anter boriton. Important sandstones the Koon Kolph Sandstone Formational of arollancerdgin. Found lish CCR size systelling a subcycrearced somebharge of land plans in the Tehli Sandstone Formation. Compared excitations in include the interventing mapped members of Band CR and an Hawk's Hong Parael Band CCR size systelling a subcycrearced somebharge of land plans in the Tehli Sandstone Formation. Compared excitation in include the interventing mapped sections of florid and hardine subdimen- pace line. These there examine the includence monoloumines recognized by James Hanton. Exposures of calcuror in the Scottah Border Banin.
Tay Bank Gao Xide (Paury (P) Kachanal Quary (P) Sacar Pont to Hawk's Brough (I) Large Court, Arrohar Neeth Neether Shore, Aman Neeth Neether Shore, Aman Polence Hill Rai Catalog	Early Devonian Late Devonian Early Devonian Early Devonian Late Devonian-Early Carbonilervian Late Devonian Late Devonian Late Devonian	Type locality of the Campuse Limextone Member, including the Vandry Limextone, representing multi- colories devices previous and providing as important surgerphalcal analysis forctions. Important sandheases the Koox Pulph Sandhease Formational of acolian origin. Found lish CCR size synthing a surgerprevent somebhage of land plans in the Toth Sandhease Formation. Cause, section at Sarcar Point (Hanney's Uncondentry). Pound lish CCR size at Hawk's Hong Proposed extractions in soluble the instructing apped sections of Bould and Varchina somebhages. Project Physics of the Sarcar Point (Hanney's Uncondentry). Pound lish CCR size at Hawk's Hong Proposed extractions in soluble the instructing apped sections of Bould and Varchina somebhares Prior of the three classic OM Bould and sarchina succedurations recognized by James Hanne. Exposures of calculations in the Dorder Bauti. Boug section of Odd Bool Sandhease lancedurations in somebharest England.
Tay Bank Claim Yale (P) Work Shoke (Querry (P) Nachemaal Querry (P) Sacar Points to Hawk's Hough (R) Lang Count, Aproban Sandheres Nordhard and the Lanke I Nache Yoshing Market Nache Yoshing Kanan Nachy Pointger	Tarly Devonian Late Devonian Late Devonian Early Devonian Early Devonian Early Devonian Late Devonian Late Devonian Late Devonian Early Devonian Early Devonian Early Devonian	Type locality of the Campois Linectones Member, including the Vandry Linexison, representing mata colverse development and providing as important straingriphical andirect bortism. Important standardness the Knon Replat Standardness (or nonlines) of anolizate origin. Small this CASE reporting the hybrid has not the modelments of other Memberson members. The Memberson of the set of the strain strain the strain strain strain the strain strain the strain strain the strain strain the strain strain strain the strain strain strain strain (strain strain
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Tay Bank Clain Yale (P) Walchensall Quarry (P) Nachensall Quarry (P) Sacar Points in Hawk's Bough (R) Large Courd, Aprillan Nach Newno Stark Red Cambo Points (Point) And Cambo Points (Point) Nach Newno Stark Red Cambo Points (Point) Nach Newno Stark Red Cambo Points (Point) Nach Newno Stark Red Cambo Points (Point)	Tarly Devonian Late Devonian Late Devonian Early Devonian Early Devonian Late Devonian Late Devonian Late Devonian Early Devon	Type locality of the Campuse Linuxboore Member, including the Vandry Linuxboor, representing muta colverse development and providing as important straingriphical andirect bortism. Important standarous the Koon Rolph Standarous Formational of arolitan origin. Total this CO-Reise systems and an end strain and the Standarous Theorem and the Standarous Target CO. etc. systems and a web-presented somebhage of land plans in the Teth Standaro Canase, section as Houre Point (Tuttone's Vacoobietomity). Found the OCB weter at How's Houg Proposed extinsion to include the intervening superb sections of flexial and harolian sandhineer. Prace Rep. Important coasial exposures in suchastones themseling flowid, brandard their sandboot morphilogies. One of the three some accoulde (OM Red Standarous encodostes) in northwest Regard. Encodor on COM Red Standarous (Red Standarous encodostes) and the Red Hout. Exposures of calcress in the Scottish Border Basis. These forces of COM Red Standarous flow flow sections in the Region Within Basis. Handrid and the Scottish Border Basis. Boot encodes of the Scottish Border Rasis. These results are an accoulde (OM Red Standarous encodostes) receives in the Region Withis Basis. Handridgi important South Bob CGR stars, with important Toormanian "-Titismismi" Foundary exposure Found Bio (CM Red Standarous Rest complementation accounts in the Region Withis Basis.
Tay Bank Tay Bank Claim Sale (P) Kolin Sale (Quarry (P) Kachenaud Quarry	Tardy Exvension Late Decentan Early Decentan Early Decentan Early Decentan Late Decentan=Early Carboniderios Late Decentan Late Decentan Early Decentan Earl	Type locality of the Campose Limexbook Member, including the Vaadry Limexbook, representing mathematical ordered services development and providing an important samplification and the barry of the Campose Limexbook (Campose Limexbook) and the Campose Limexbook (Campose Limexbook) and Campose (Campose Limexbook) and Campose (Campose Campose Campose (Campose Campose Campose (Campose Campose Campose Campose (Campose Campose (Campose Campose (Campose (Campose Campose (Campose (Campose Campose (Campose (Cam
Tay Bank Claim Male (Quarry (P) Kolt Shale (Quarry (P) Konto Neural Quarry (P) Nonto Neuran Shane, Annu Neura Neuran Shane, Annu Neura Neuran Shane, Annu Neuran Shane, Annu Shallwer Kondon and the Laider J Palmers Hall (Laining Radja Welder Shale Radja Welde Bantin Radja Welde Bantin Radja Welde Shalin Neuran Shale (P) Shale Shale (P) He Share (P)	Tardy Exvension Late Decentan Early Decentan Early Decentan Early Decentan Late Decentan=Early Carboniderios Late Decentan Late Decentan Early Decentan Earl	Type locality of the Campose Linectones Member, including the Vandry Linexiston, representing mata colorese devicesponent and providing as important straingriphical analysis features. Important standarous the Koon Rolph Standarose Formational of arollane origin. Total lish CCR size systems and straining the strain of a moltane origin. Total lish CCR size systems and straining the strain of a moltane origin. Total lish CCR size systems and straining the straining of listed plans in the Teleh Standaros Canadaros section as the strain Form (Titomov's Uscondarosmy). For diff. Bio CCR was straining the intervention of the intervention (Titomov's Uscondarosmy). For diff. Bio CCR was straining the intervention of the intervention graph of the strain terms of the intervention of the
Tay Bank Tay Bank Class Sale (P) Kol's Sale (Query (P) Kachenaud Query (P) Sacar Point to Hark's Hough (R) Large Cause, Applies Large Cause, Applies Saatkeres Scotland and the Larke I Packey Diright Sack Dearty Large Cause Dearty Large (P) Cause Diright (P) The Sac Dearty Large (P)	Tarly Exvenian Late Devenian Late Devenian Early Devenian Early Devenian Late Devenian-Early Carbondervus Late Devenian Laty Devenian Early Exvenian Early E	Type locality of the Campose Linectones Member, including the Vandry Linexisne, representing multi- colverie development and providing as important straingriphical andirect bortism. Important standardisms take Korn Rulph Standardisms Formational of northine origin. Bank: Total plane CAR has yelding a welf-spectrowed sseemblage of land plants. Bank: Found plane CAR has yelding a welf-spectrowed sseemblage of land plants in the Teth Standard Connect section at Storar Point (Humory Yucoulomity). Found this CAR sint at Huwk's Houg Progenoid extinsion to include the intervening superb sections of floatal and hurdian sandhurser. Does of the three classic Old Ed Standardism annoclasmics recognised by Jance Humor, Standard Storar Standard Storar Standard Star Exposures of calcivers in the Northin Border Thanti. Exposures of calcivers in the Northin Border Thanti. Boro section of Old Hool Stendardisme floates conglementers in northwest England. One of the three, most necessible Old Hool Standardism recognised plant and humor. Humory and Bah CER and Well Standardism recognised from standard server parts (Humor Humory and Bah CER and Standardism the Indexidence in northwest England. One of the three, most necessible Old Hool Standardisments of constraint. Foroid Bah CER and well well development for formation. Good induct organizes (Hool Regular Modified Tormation.
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Tay Bank Tay Bank Can State (Pay See State Querry (P) Second Querry (P) Second Querry (P) Second Postor to Hank's Brough (D) Large Cause, Aprobate North Newson Shore, Areas Second Postor to Hank's Brough (D) Large Cause, Aprobate Second Postor (D) Second Postor (D	Tarly Evenian Late Devonian Late Devonian Early Devonian Early Devonian Late Devonian-Early Carbondiervus Late Devonian Late Devonian Late Devonian Early Devonian Late Shorta-Farly Devonian Late Shorta-Early Devonian Early Devonian Early Devonian Early Devonian	Type locality of the Campose Linectones Member, including the Vandry Linexison, representing multi- colverse development and providing as important surgraphical analysis between the langurent analysis reporting the hybrid hard members where of the Manine Theorem and the CAUSE reporting the hybrid hard members where of the Manines Theorem Toron Bob CAUSE in the system of the state of the State of the State of the Toron Bob CAUSE in the system of the State of the State of the Toron Bob CAUSE in the State of the State of the State of the Toron State of the State of the State of the State of the State of the Toron State of the State of the State of the State of the State of the Toron State of the State of the Toron State of the State of the the state of State of the State of the State of the State of the State of the the state of State of the State of the State of the State of the the state of State of State of the State of the State of the State of the the state of State of the State of the State of the State of the the state of State of State of State of State (State State State of the State of the the state of State of State State of State State and the state of State of State State of State State and the state of State of State State of State State and the state of State of State State of State State and the state of State of State State of State State State Toron State of the State of State State State Toron State of the State State of State State State Toron State of the State State State State State State State State State theory state of State St
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(Table 1.1) GCR Old Red Sandstone sites and proposed sites, with main criteria for their selection. Continued on page 7.

üse	Stratigraphy	Criterion	Treatment in this v Full description Summary description Not described 5	FD on SD iD	Stratigraphy	Criterion	Treatment in this volus Full description FD Summary description S Not described ND
Decadian Basin Vesterdale Quarry	Mid-Devonian: Eidelian	One of oldest fish-bearing	ND	Southern Uplands Oxendean Burn	Late Devonian	Abundant fragments of	ND
		horizons in Orcadian Basin; complete specimens		Hawk's Heugh	Late Devonian	Bothriolepss Only British occurrence of	FD
chanaeras Quaery	Mid-Devonian; Eifelian- Givetian boundary	Richest Old Red Sandstone fish site in Britain	FD	Anglo-Welsh Basin		Remigslepis	
ruaday Quarty	Mid-Devonian; Eifelian- Givetian boundary*		ND	Ludford Lane and Ludford Corner	Silurian; Pfidoli	Internationally renowned for rich fish fauna; see also Table	ND
lack Park, Edderton	Mid-Devonian; Eifelian- Givetian boundary*		ND	Ledbury cutting	Silurian; Plidoli	1.4 Historical site yielding	ND
en of Findon, Gameie	Mid-Devonian; Eifelian- Givetian boundary*		SD			complete specimens of Auchemapis and	
net Burn, Elgin	Mid-Devonian*	Rich feh fauna and historically important	PD	Temeside, Ludiow	Silurian; Plidoli	Hemicyclaspis Historical site an Temeside	ND
elby	Mid-Devonian; Eifelian- Givetian boundary*	Northernmost occurrence of Achanarras horizon	FD	Petropinent, Editoria	Constraint, 1 1 No.	Mudstone Formation yielding a rich fish fauna	140
pa Stour	Mid-Devonian; Eifelian- Givetian boundary*		ND			including Hemicycluspis murchiaoni	
marke Berne	Mid-Devonian	sequence Fish fauna younger than that	ND	Tite's Point (Parton Passage)	Silurian; Ludlow-Pfidol	Thelodus pareidens fish fauna, allowing correlation	
ipple Brae	Mid-Devonian	of the Achanarras horizon Rare fish fauna, including only	ND			with Ludlow Bone Bed, and source of Cyathapti	
sittal Quarry	Mid-Devonian	Mid-Devosian cephalaspid First ORS size to yield fahes	ND	Lydney	Late Pfidoli-Early Devonian	Sequence of vertebrate faunas, including specimens of	FD
inniskirk Quarry olborn Head Quarry	Mid-Devonian; mid- Givetian	10-11 fish species, including	ND	Downton Castle area	Early Phidoli	Salvinacanthar Several quarries in Downton	ND
icydale Quarry	Mid-Devonian	Outeolepis panderi Well-preserved Outeolepis	ND	(network of 4 sites)	Lang Printing	Castle Sandstone yielding venebrate remains	ab
		panaleri and Dipterso calenciennesi Many fish specimens from	FD	Bradnor Hill Quarry	Late Pfidoli	Late Pfidoli thelodont fauna	ND
contyland.		several fish-bearing horizons		Devil's Hole	Phidoli-Lochkovian	Fish fauna straddling	SD
hn o'Groats	Mid-Devonian; late Givetian	Youngest fish fauna in Caithness	SD			Downtonian-Dittonian boundary	
se Cletts, Exnaboe	Mid-Devonian; late Givetian	Northernmost late Givetian fish site	ID	Ouk Dingle, Tugford	Lochkovian (Dittonian)	Near-strike section of fish- bearing beds; earliest record	SD
imburgh Head	Givetian	Possibly youngest fish fauna of the Orcadian Basin	ND	Cwm Mill	Lochkovian (Dimonian)		ND
tidland Valley of Scott he Toutties	land Late Wenlock	Oldest Old Red Sandstone	FD			complete cephalaspids, including three new species;	
		facies rocks in Scotland; unique fish fauna				also specimens of Rhinopteraspis crouchi	
illywhandland Quarry	Early Devonian	One of best Early Devonian fish sites in Scotland	FD	Wayne Herbert Quarry	Lochkovian (Dittonian)	Well-preserved, diverse fish fauna	ND
berlenno Quarty	Early Devonian	Best surviving of the famous Turin Hill fish sites; also a fossi	FD	Besom Farm Quarry	Lochkovian (Dittonian)	including 7 type specimens	ND
folf's Hole Quarry	Early Devonian	plant GCR site (Table 1.5) Unique pteraspid fish fauna	FD			and sole occurrence of 5 of them	
hitebouse Den rampian Highlands	Early Devonian	Fossil acanthodian fish	ND	Heol Senni Quarry	Lochkovun-Pragian	Only occurrence of Althaspis sensitensis	PD
rdmore-Gallanach	Late Silurian-Early Devonian	Unique early fish fauna in sediments associated with	ND	Portishead	Late Devonian	Unique fish fauna, including only British occurrence of	FD
ogmore, Muckle Burn	Earliest Late Devonian	Lorne lavas Diverse fish fauna with over	ND	Prescott Corner	Late Devonian (Franzian	Groenlandaspis Extensive Late Devonian fish	ND
caat Craig	(Frascian) Late Devonian	15 species Diverse late Devonian fish	ND	Alon y Waen	Late Devonian	fauna Bothriolepis and	ID
case crang	Law Locotonian	fauna and a distinctive tetrapod				Holoptychias in Upper Old Red Sandstone	
Acharmaras Fish Bed horiz	106	and the second s					
	Basin	ut.		Apresta and a		Treatment in Full descri Summary des Not descri	cription SD ibed ND
<i>Orcadian E</i> Sloagar	Basin	Mid-Devoniar Givetian	ı; Late	Only occurrence Svalbardia in Br		Full descri Summary des	cription SD ibed ND
Sloagar			numo riun	Only occurrence Svalbardia in Br Important floral in Sandwick Fish	itain assemblage	Full descri Summary des Not descri	ibed ND
		Givetian	numo riun	Svalbardia in Br Important floral	ritain assemblage Bed; type	Full descri Summary des Not descri NI	ibed ND
Sloagar		Givetian		Svalbardia in Br Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo	ritain assemblage Bed; type b <i>teridium</i> nian	Full descri Summary des Not descri NI	cription SD ibed ND
Sloagar Bay of Skaill		Givetian Mid-Devoniar		Svalbardia in Br Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical	ritain assemblage Bed; type bteridium nian site; 22	Full descri Summary des <u>Not descr</u> NI	cription SD ibed ND
Sloagar Bay of Skaill Rhynie	CR Contern ACR Eddecteon CR	Givetian Mid-Devoniar Early Devonia		Svalbardia in Br Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo	ritain assemblage Bed; type bteridium nian site; 22	Full descri Summary des <u>Not descr</u> NI	cription SD ibed ND
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Sloagar Bay of Skaill Rhynie <i>Midland Va</i>	CR Contern ACR Eddecteon CR	Givetian Mid-Devoniar Early Devonia	un	Svalbardia in Br Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical	ritain assemblage Bed; type b <i>teridium</i> nian site; 22 o this site Zone flora in	Full descri Summary des <u>Not descr</u> NI NI FE (as 'Aberler	cription SD ibed ND
Sloagar Bay of Skaill Rhynie <i>Midland Va</i> Turin Hill	ulley of Scotle	Givetian Mid-Devoniar Early Devonia and Early Devonia	n n	Svalbardia in Br Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical species unique to Best example of Zosteropbyllum world and type I Cooksonia calea	ritain assemblage bed; type bteridium nian site; 22 o this site Zone flora in ocality of <i>lonica</i>	Full descri Summary des Not descri NI NI FI FD (as 'Aberler	nno Quarry'
Sloagar Bay of Skaill Rhynie <i>Midland Va</i> Turin Hill Ballanucater	ulley of Scotle Farm	Givetian Mid-Devoniar Early Devonia Early Devonia Early Devonia	n un un; Emsian	Svalbardia in Ba Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical species unique to Best example of Zosterophyllum world and type I Cooksonia calea Best Emsian flor in Britain	ritain assemblage bed; type bteridium nian site; 22 o this site Zone flora in ocality of <i>lonica</i> al assemblage	Full descri Summary des Not descri NI NI FD (as 'Aberler E NI	ibed ND ibed ND
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Sloagar Bay of Skaill Rhynie Midland Va Turin Hill Ballanucater Auchensail Q Anglo-Welsh Targrove Qu Capel Horeb Perton Lane	Farm Quarry Basin arry Quarry	Givetian Mid-Devoniar Early Devonia Early Devonia Early Devonia Early Devonia Early Devonia Gedinnian Late Silurian; Ludfordian-P	n un un; Emsian un; Emsian un; fídolí Přídolí	Svalbardia in Ba Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical species unique to Best example of Zosterophyllum world and type I Cooksonia calea Best Emsian flor in Britain Well-preserved E assemblage Most diverse rhy plant assemblage Oldest vascular p world in Ludlow Quarry Formatio some rhyniophy including Cooks	ritain assemblage bed; type bteridium nian site; 22 o this site Zone flora in ocality of <i>lonica</i> al assemblage Emsian floral niophytoid e in world blants in Series; Long on yielded toids <i>onia</i> nd type <i>onia</i>	Full descri Summary des Not descri NI NI FD (as 'Aberler FD (as 'Aberler NI FD NI NI	ibed ND ibed ND
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Sloagar Bay of Skaill Rhynie Midland Va Turin Hill Ballanucater Auchensail Q Anglo-Welsh Targrove Qu Capel Horeb Perton Lane	Farm Quarry Basin arry Quarry Quarry	Givetian Mid-Devoniar Early Devonia Early Devonia Early Devonia Early Devonia Early Devonia Gedinnian Late Silurian; Ludfordian-P Late Silurian;	n un un; Emsian un; Emsian in; fídolí Přídolí Přídolí	Svalbardia in Ba Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical species unique to Best example of Zosterophyllum world and type I Cooksonia calea Best Emsian flor in Britain Well-preserved E assemblage Most diverse rhy plant assemblage Oldest vascular p world in Ludlow Quarry Formatio some rhyniophy including Cooks Classic locality at locality of Cooks Most diverse Silu	ritain assemblage beteridium nian site; 22 o this site Zone flora in ocality of <i>lonica</i> al assemblage imsian floral niophytoid e in world olants in ' Series; Long on yielded toids onia nd type onia urian flora in ielding one o	Full descri Summary des Not descri NI NI FD (as 'Aberler FD (as 'Aberler NI FD NI FI NI NI	ibed ND ibed ND
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Sloagar Bay of Skaill Rhynie Midland Va Turin Hill Ballanucater Auchensail Q Anglo-Welsh Targrove Qu Capel Horeb Perton Lane Freshwater I Llanover Qu	East arry	Givetian Mid-Devoniar Early Devonia Early Devonia Early Devonia Early Devonia Early Devonia Gedinnian Late Silurian; Ludfordian-P Late Silurian; Early Devonia Siegenian	n n n n; Emsian n; Emsian n; fídolí Přídolí n;	Svalbardia in Ba Important floral in Sandwick Fish locality of Protof thomsonii Renowned Devo palaeobotanical species unique to Best example of Zosterophyllum world and type I Cooksonia calea Best Emsian flor in Britain Well-preserved E assemblage Most diverse rhy plant assemblage Oldest vascular p world in Ludlow Quarry Formatio some rhyniophy including Cooks Classic locality a locality of Cooks Most diverse Silu the world Classic locality yi most diverse Psil Zone flora in Bri	ritain assemblage beet; type beeteridium nian site; 22 o this site Zone flora in ocality of <i>lonica</i> al assemblage Emsian floral niophytoid e in world blants in Series; Long on yielded toids onia nd type onia urian flora in ielding one o <i>lophyton</i> itain eserved in Britain;	Full descri Summary des Not descri NI NI FD (as 'Aberler FD (as 'Aberler FD (as 'Aberler FI FD (as 'Aberler FI FI FI FI NI FI	ibed ND ibed ND

(Table 1.3) GCR sites in the Old Red Sandstone described in the Palaeozoic palaeobotany GCR volume. After Cleal and Thomas (1995).

Site	Stratigraphy	Criterion	Treatment in this volume Full description FD Summary description SD Not described ND
Anglo-Welsb Basin	The start to start	and a series of the second	inter and obber - me
Marloes	Wenlock-Přídolí	Classic site showing early transition from marine to Old Red Sandstone facies	ND (included with report for Albion Sands and Gateholm Island)
Albion Sands and	Ludlow-Pridoli-	Complete, conformable	SD
Gateholm Island	Lochkovian	succession from Ludlow into early Devonian	best de Mead
Freshwater East (South)	Wenlock-Pfidoli	Wenlock marine strata overlain by Old Red Sandstone; faulted/ unconformable relationship	ND
Ludford Lane and Ludford	Ludlow-Pfidoli	Classic, internationally	ND
Corner		renowned site traditionally regarded as reference section for Silurian–Devonian boundary; earliest known land animals, early plants (see Table 1.3), unusual arthropods and fish remains in Ludlow Bone Bed	
Brewin's Bridge/Canal	Ludlow-Přídolí-	One of few sites in central	ND
	Carboniferous	England exposing marine Silurian–Old Red Sandstone junction, including Ludlow Bone Bed	
Capel Horeb Quarry	Ludlow-Přídolí	Good section of unconformity between Ludlow and Pfidolí; internationally important plant site (Table 1.3)	ND
Little Castle Head	Přídolí	Old Red Sandstone facies rocks; Townsend Tuff Bed	SD
Lower Wallop Quarry	Ludlow-Přídolí	Marine to Old Red Sandstone transition later here, well into Pfidoli	ND

(Table 1.4) GCR sites in the Old Red Sandstone described in the Silurian stratigraphy GCR volume. After Aldridge et al. (2000).

Site	Stratigraphy/ radiometric age	GCR selection criteria
Eshaness Coast	Mid-Devonian	Representative of Eifelian Eshaness volcanic succession, NW Shetland.
Ness of Clousta to the Brig	s Mid-Devonian	Representative of Givetian Clousta volcanic rocks, Walls Shetland.
Point of Ayre	Mid-Devonian	Representative of Givetian Deerness Volcanic Member mainland Orkney.
Too of the Head	Mid-Devonian	Representative of Givetian Hoy Volcanic Formation, Isle of Hoy, Orkney.
South Kerrera	Late Silurian to Early Devonian	Representative of Lorn Plateau Volcanic Formation Exceptional examples of subaerial lava features and interaction of magma with wet sediment.
Ben Nevis and Allt	Mid-Silurian	Representative of Ben Nevis Volcanic Formation.
a'Mhuilinn	425 Ma	Exceptional intrusive tuffs. Internationally important as example of exhumed root of caldera, and historically for development of cauldron subsidence theory.
Stob Dearg and Cam	Mid-Lochkovian	Representative of succession in eastern part of Glencoe
Ghleann	421 ± 4Ma	caldera, including basal sedimentary rocks. Exceptional rhyolites, ignimbrites and intra-caldera sediments Possible international importance for radiometric dating in conjunction with palaeontology close to Silurian- Devonian boundary.
Crawton Bay*	Late Silurian-Early	Representative of Crawton Volcanic Formation.
can the say	Devonian	inspired manne of charter formation
Scurdie Ness to Usan Harbour	Early Devonian	Representative of 'Ferrydean' lavas and 'Usan' lavas, comprising lower part of Montrose Volcanic Formation.
Black Rock to East Comb	Early Devonian	Representative of 'Ethie' lavas, comprising upper part o Montrose Volcanic Formation.
Balmerino to Wormit	Early Devonian	Representative of eastern succession of Ochil Volcania
	(Lochkovian) 410.6 ± 5.6 Ma	Formation. Possible international importance for radiometric dating in conjunction with palaeontology close
		to Silurian-Devonian boundary.
Sheriffmuir Road to	Early Devonian	Representative of western succession of Ochil Volcania
Menstrie Burn	416 ± 6.1 Ma	Formation. Exceptional topographic expression of Ochi fault-scarp.
Tillycoultrie	Early Devonian	Representative of diorite stocks, intruded into Ochi
	415-410 Ma	Volcanic Formation, surrounded by thermal aureole and cut by radial dyke swarm. Exceptional examples o diffuse contacts due to metasomatism and contamination with 'ghost' features inherited from country rock.
Port Schuchan to Dunure Castle	Early Devonian	Representative of Carrick Hills volcanic succession Exceptional features resulting from interaction of magma with wet sediment are of international importance.
Culzean Harbour	Early Devonian	Representative of inlier of Carrick Hills volcanis succession. Exceptional features resulting from interaction of magma with wet sediment are of internationa importance.
Turnberry Lighthouse to Port Murray	Early Devonian	Representative of most southerly inlier of Carrick Hills volcanic succession. Exceptional features resulting from interaction of magma with wet sediment are o international importance.
Pettico Wick to St Abb's	Early Devonian	Representative of volcanic rocks in the SE of the Southern
Harbour	c. 400+ Ma	Uplands. Exceptional vent agglomerates, block lavas flow tops and interflow high-energy volcaniclastic sediments.

(Table 1.5) GCR sites with Old Red Sandstone sedimentary rocks described in the Caledonian igneous rocks volume. After Stephenson et al. (1999).