

Index

Page numbers in *italic* denote Figures. Page numbers in **bold** denote Tables.

- Abbey Shale Formation *104*, 113
Aber Llong Formation 2, 3, 4, 7, 25, 26, 74
 biota and age 80
 distribution 79–80
 lithology 52, 78–79
 lithostratigraphy 34, 36, 78–80
 sequence stratigraphy *104*, 113–114, *115*
Acadian deformation 3
Acontheus 26, 27
Aethwy Terrane 9
Agnostotes orientalis 11
Agnostus barrandei 20
Agnostus cambrensis 73
Agnostus pisiformis 13, 21, 79, 80
Agraulos 26
Agraulos longicephalus 5, 13, 14, 26
alluvial fan sedimentation 106, *118*, *119*, 120
 Newgale Formation 56, 57–58, 59
 Ogof Golchfa Formation 37, 38, 39–40, 41, **45**, 46–48, 120–122
Amazonian Craton 127–128
Anopolenus? 27
Anopolenus henrici 5, 13, 18, 19, 20, 26, 27
Arenicolites 53
Arfon Group 7
Arvonian Basin 120
Avalonia, and Gondwana *127*, 128
 see also East Avalonia; West Avalonia
Avalonian Orogeny 7, *118*, *119*, 125
Avalonian platform, sequence stratigraphy 102–116
Avalonian Superterrane
 geological history 4, 7, 9
 sequence stratigraphy 101–102, *103*, *104*, 105, 106, 108, 109, 112
 tectonostratigraphy 116, 118–128

Bailiaspis cf. dalmani 5, 8, 13, 15, 16, 27, 73
Bailiella lyellii 5, 6, 12, 15
bar wedge 42, 43
Barmouth Grits Formation *104*, 109, 110, *111*, 112
basin evolution *121*, 122, *123*
basin-fill 120, 124
beachface sedimentation 44, **45**, 46
Beishanella sagax 5, 20, 26, 27
bentonite 112, 124
Billingsella? hicksii 80
biostratigraphy 11–13
bioturbation
 Caer Bwdy Bay Formation 52, 54
 Caerfai Bay Formation 51, 53
 Menevia Formation 75, 76, 77
 Newgale Formation 64, 65, 66
 Ogof Golchfa Formation 44, 47
 Porth Clais Formation 71
 St Non's Formation 45, 50, 51
 Whitesands Bay Formation 73
black shale 77, 113
Bonavista Cycle *104*, 106
Boon's Member *104*, 124
Bouma sequence 58, 61, 62, 71, 75, 76
braided stream sedimentation, Ogof Golchfa Formation
 40, 42, 43, 46, 48, 106, 122, *123*, 124
Braintree Member 109

breccia 24, 113
Brigus Formation *104*, 108
Brunswickia (Jincella) applanata 5, 13, 14, 20, 26, 27

Cadomian Orogeny 7, *118*, *119*, 125
Caer Bwdy Bay Formation 2, 4, 22, 38
 biostratigraphy 11
 biota and age 54–55
 distribution 54
 lithology and sedimentology 52, 54
 lithostratigraphy 34, 36, 53–55
 sequence stratigraphy *104*, 106, 108
Caerfai Bay Formation 2, 4
 biostratigraphy 11–12
 biota and age 51, 53
 distribution 53
 lithology and sedimentology 51, 52, 53
 lithostratigraphy 34, 36, 38, 50, 51–53
 sequence stratigraphy *104*, 106, 108
'Caerfai Bay Shale' 51
Caerfai Group 2, 3, 33
 biota and age 35
 depositional architecture 120–122
 deposition/sedimentary environment *118*
 distribution 35
 lithostratigraphy 34, 35, 36, 38, 39–72
 tectonosedimentary model and basin evolution *121*, 122, *123*, 124
Caernarfon Slate Belt 105, 106, 109, 125
caliche, St Non's Formation 51, 52, 106
Cambrian
 biozones 2, 11–13
 definition 9, 11
 GSSP 9, 11
 Pembrokeshire, geology 3, 4, 7
 subdivision 2, 9, 11
 SW Wales
 biostratigraphy 2, 11–13
 history of research 3
 lithostratigraphy 2
 platform succession 7
'Cambrian Grits' 2, 3, 33
Cambrian Series 2 2, 11
 biostratigraphy 12
 lithostratigraphy 34
Cambrian Series 3 2, 11
 biostratigraphy 12–13
 lithostratigraphy 34
Cambrian Stages, biostratigraphy 12–13
Cape Dog pillow basalt 112
Ceiriad Formation *104*, 110, 112, 113
Centropleura pugnax 5, 10, 13, 20
Chamberlain's Brook Formation *104*, 109, 112
channel bars, Ogof Golchfa Formation 42, 43
channel fill 81, 82, 84–85
channel lag, Ogof Golchfa Formation 42, 43
channel-lobe transition, Port Clais Formation 59
Charnwood Terrane 4, *103*, *108*, *126*
Chondrites 71, 87
Cilan Formation *104*, 109, 110, *111*, 112
Clarella 26
Clarella salteri 5, 13, 14, 26, 27

- Clogau Shales 104, 112, 113
 Coedana Complex 9
 Comley Breccia Bed 113
 Comley Limestones 104, 108, 109, 110
 Comley Series 2, 9
 lithostratigraphy 34
Condylopyge cambrensis 5, 6, 12, 15
Condylopyge cf. *rex* 20, 26
 conglomerate
 Cambrian base 7, 9, 34, 35, 37–40, 42, 46–49
 see also Ogof Golchfa Formation
Conocoryphe 80
Conocoryphe bufo 73
 ‘*Conocoryphe*’ *solvensis* 15
Corynexochus cf. *cambrensis* 26
Cotalagnostus illingi 20
Cotalagnostus lens s.l. 5, 20, 26
 cross bedding 42, 44–45, 50, 58, 59, 65, 78–79
Cruziana 49
 Ogof Velvet Formation 87
Ctenocephalus (Hartella) solvensis 5, 8, 13, 15
Ctenocystis 27
 Cwm Mawr Member 12, 55, 60, 66, 68, 104, 109
 Cwm Pennant Fracture Zone 113
Cyclotron? 13
 Cymru Terrane 4, 103, 108, 126
- Dasometopus* 26
Davidocinctus pembrokensis 15
Dawsonia dawsoni 5, 6
 debris flow
 Caer Bwdy Bay Formation 54
 Caerfai Bay Formation 53
 Newgale Formation 55, 56, 57, 58, 60
 Ogof Golchfa Formation 37, 46–47, 121, 122, 124
 Deep Cove Limestone 112
 delta-front lithofacies 48–49, 53, 54, 71, 114–115, 116, 119
 depositional architecture, Caerfai Group 120–122
 diamictite 62–63
Discina pileolus 73, 80
 Dol-cyn-afon Formation 104, 116
 Dolgellau Formation 2, 104, 114, 115, 116, 117
 Dolwen Basin 120, 125
 Dolwen Formation 104, 105
 Drumian Stage 2, 11, 104, 105
 biostratigraphy 13
 sequence stratigraphy 112–113
 Dwndwr Grits 106
 Dwrhyd 15–16, 23
 Dyfed Supergroup
 history of research 2, 3
 sequence stratigraphy 102–116, 105, 118
- East Avalonia 4, 7, 101–102, 105, 112, 127, 128
 tectonic regime 120
 tectonostratigraphic evolution 124–125
Eodiscus punctatus s.l. 20
Eodiscus punctatus punctatus 5, 13, 16, 20, 26, 27
Eodiscus punctatus scanicus 5, 8, 12, 13, 15, 20
 epeirogenesis, Avalonian platform 112
 extension, transtensional 121, 122, 123, 124
 extensional regime 124
- Fachwen Formation 7
Fallotaspis 11
 fan-delta plain sedimentation 112, 119
 Hell’s Mouth Formation 109
 Newgale Formation 56, 59, 61, 64
 fault-block rotation 108, 121, 122, 124
 faulting 3, 7
 Fenland Terrane 4, 126
 Ffestiniog Formation 104, 113, 114–115, 116, 117
 Ffestiniog Group 2
 flasers 58, 65, 79
 flute casts
 Newgale Formation 62, 66
 Ogof Velvet Formation 81, 84, 85
 Porth Clais Formation 69, 70, 73
 folding 3
 ‘Ford Beds’ 77
 Fortunian Stage 2, 11, 104, 105
 Fossil Brook Member 109, 112
 Furongian Series 2, 11, 104
 biostratigraphy 13
 lithostratigraphy 34
- Gamlan Formation 104, 112, 113
Glossifungites ichnoassemblage 112
Glyptagnostus reticulatus 11, 13
 Gondwana, and Avalonia 9, 127, 128
 passive continental margin 125, 126, 127–128
 see also peri-Gondwanan terranes;
 West Gondwana
Grandagnostus 15
 ‘Grey rocks’ 2, 33, 34
 gutter casts 81, 82–84, 85, 88
 Guzhangian Stage 2, 11, 13, 104, 105
 sequence stratigraphy 112, 113
 Gwna Group 9
- Hafotty Formation 104, 109
 Hanford Brook Formation 104, 106, 108, 109
 Hanging Rock Basin 125
 Harlech Dome 3, 4, 103, 104, 105, 109, 110–113, 126
 Harlech Grits Group 2, 3
 Hartshill Basin 125
 Hartshill Formation 104, 106, 124
Hartshillia 26
Hartshillia inflata 5, 10, 13, 15, 26
Hartshillina spinata 5, 13, 14, 26
 Haycastle Anticline 3, 4, 72
 Hell’s Mouth Formation 104, 108
 highstand systems tract sequence 106, 108, 109, 114
 Hill House Flags 110, 112, 113
 Hill House Grits 110, 113
 Hill House Shales 110, 112
Holocephalina incerta 5, 10, 12, 13, 21
Holocephalina primordialis 5, 13, 18, 20, 27
 Holyhead Formation 9
Homagnostus obesus 13, 21
 Home Farm Member 104, 106, 124
 hummocky cross-stratification 84–86
Hymenocaris 27, 90
Hyolithes 20, 27
Hyolithes corrugatus 26, 27
Hypagnostus 26
 hyperconcentrated fluid flow 46–47,
 56, 57, 61
 hyperpycnites 71
- Iapetagnathus fluctivagus* 9
 Iapetus subduction/rifting 7
 ichnofossils 11
Indiana? lentiformis 12, 53
 inertia carpet 61, 62, 64
- Jee’s Member 104, 124
 Jiangshanian Stage 2, 11, 104, 105, 113

- Lapworthella* Limestone 109
 Leinster-Lakesman Terrane 9
Lejopyge laevigata 11
Linguagnostus sp. nov. 26
 'Lingula Flags' 2, 3, 13, 72, 78
 see also Aber Llong Formation; Ogof Velvet Formation
Lingulella 15, 26, 27, 53
Lingulella davisii 13, 90
Lingulella ferruginea 15, 20, 73, 80
Linnarssonina sagittalis 15, 20, 26, 27
 lithostratigraphy 33–91
 Llanbedr Formation 104, 105
 Llanberis Slate Formation 7, 105, 106, 108
 load casts 62, 71, 73
 'Longmyndian Group' 33
Lotagnostus americanus 11
 Lower Comley Sandstone 12, 104, 106, 109, 110, 113
 Lower Solva Beds 2, 34, 55
 see also Newgale Formation
Luhops sp. 26
- MacLean Brook Formation 104, 113
 Maentwrog Formation 2, 104, 113–115, 116, 117
 magnetic susceptibility 107
 Mancetter Shale Formation 104, 113–114
 manganese enrichment 109, 110, 112, 124
 Manuels River Formation 104, 112
 Mawddach Group 3
 Megasequence 1 2, 107, 118–125
 Megasequence 2 2, 107, 118, 119, 125–128
 Meguma Zone 127, 128
 Menai Straits Fault System 103, 106, 120, 124, 125
 Menevia Formation 2, 4, 23, 24, 25, 38
 biostratigraphy 5, 12, 13, 15, 20, 26–27
 biota and age 77–78
 distribution 77
 Lithofacies M1: fine sandstone/siltstone 75
 Lithofacies M2: silty mudstone/limestone 75
 Lithofacies M3: siltstone/mudstone 74, 75–76
 Lithofacies M4: laminated mudstone 77
 lithostratigraphy 34, 36, 67, 73–78
 palaeoenvironment 59, 75, 76–77, 78
 sequence stratigraphy 104, 112
 Menevian Group 2, 3
 lithostratigraphy 34
Meneviella 27
Meneviella venulosa 5, 20, 26, 27
 Merioneth Series 2, 9
 lithostratigraphy 34
Microdiscus sculptus 12, 15
Micromitra sp. 15
 Middle Solva Beds 2, 34, 66
 see also Porth Clais Formation
 Midland Platform 108, 109
 Monian Basin 120
 Monian Composite Terrane 9
 Monian Supergroup 9
 Monian Superterrane 4, 103, 106, 125, 126
 Moor Wood Sandstone Formation 104, 113
 mudflow 56
 'Musland Grit' 55, 72
- Nant-y-Big Formation 104, 110, 112, 113
 nearshore marine sedimentation
 Ogof Golchfa Formation 38, 39, 41,
 42–46, 48–49
 St Non's Formation 40, 50–51
Neolenus humerosus 5
 New Harbour Group 9
 Newgale Formation 2, 4, 38
 biostratigraphy 5, 12, 15
 biota and age 65
 distribution 65
 Lithofacies NA1: tabular pebbly sandstone 55, 56
 palaeoenvironment 55
 Lithofacies NA2: lenticular pebbly sandstone 55–56
 palaeoenvironment 56–58
 Lithofacies NB1: siltstone/mudstone 58
 palaeoenvironment 58
 Lithofacies NB2: lenticular sandstone 58
 palaeoenvironment 58–59, 61–62
 Lithofacies NB3: sandstone turbidite 56, 60, 62
 palaeoenvironment 60, 62
 Lithofacies NB4: muddy diamictite 56, 62
 palaeoenvironment 60, 62–63
 Lithofacies NB5: coarse pebbly sandstone 60, 63
 palaeoenvironment 60, 63–64
 Lithofacies NB6: mudstone/siltstone 64
 palaeoenvironment 64
 lithostratigraphy 34, 36, 55–66, 67
 palaeoenvironment 64–65
 sequence stratigraphy 104, 109
 see also Cwm Mawr Member; Pen-y-Cyfrwy Member;
 Trwyncynddeiriog Member
 Nine Wells 15–16, 23
 North Armorican Superterrane 7
- Obolella groomi* Bed 106
Obolella sagittalis 73
 Ogof Eynon 24, 26
 Ogof Golchfa Formation 2, 4
 biostratigraphy 11
 biota and age 49
 distribution 49
 Lithofacies A1: clast-supported conglomerate 37, 41
 Lithofacies A2: matrix-supported conglomerate 37, 41
 Lithofacies A3: sand-matrix-supported conglomerate/
 sandstone 37, 38, 39, 41
 Lithofacies A4: silty mudstone 39–40
 Lithofacies B1: pebble conglomerate 40, 42, 43
 Lithofacies B2: pebble conglomerate/sandstone 42, 43
 Lithofacies B3: lenticular sandstone/mudstone 42, 43
 Lithofacies C1: pebble conglomerate/sandstone
 38, 39, 42–44
 Lithofacies C2: trough cross-stratified sandstone 44–45
 Lithofacies C3: hummocky cross-stratified sandstone
 41, 45–46
 Lithofacies Association A: alluvial fan 37, 46–48
 Lithofacies Association B: braided stream 40, 48
 Lithofacies Association C: nearshore marine 42, 48–49
 lithostratigraphy 34, 35–49
 sequence stratigraphy 104, 106
 tectonosedimentary model 120, 121, 122, 123
 Ogof Hen Formation 80, 118
 Ogof Velvet Formation 2, 3, 4, 7
 biota and age 90
 distribution 90
 Lithofacies OVA1: sandstone/mudstone 79, 80–82
 Lithofacies OVA2: siltstone gutter casts 81, 82–84
 Lithofacies OVA3: channel fill 81, 82, 84–85
 Lithofacies OVB1: sandstone 81, 82, 85
 Lithofacies OVB2: sandstone/shale 81, 85–86
 Lithofacies OVB3: sandstone/mudstone 86–87
 Lithofacies OVC1: fine-very fine sandstone 81, 87
 Lithofacies OVC2: silty mudstone 81, 87–88
 lithostratigraphy 34, 36, 80–88
 palaeoenvironment 80–81, 82–85, 86, 87–90
 sequence stratigraphy 104, 113–114, 115

- Olenus cataractes* 13, 21
Olenus mundus 13
 Orusia Shale 104, 113
Ovatortocara granulata 11
- Padarn Tuff 7
 Paibian Stage 2, 11, 104, 105
 palaeocurrents 106, 107, 110
 Menevia Formation 59, 75
 Newgale Formation 59
 Ogof Golchfa Formation 44, 45, 49
 Ogof Velvet Formation 82–83
 Porth Clais Formation 59, 70, 71
 palaeoenvironment *see* name of individual formations
Palaeophycus 49, 51, 54, 55, 64
 Pannotia 7
 paraconformity 104, 106
Paradoxides aurora 73
Paradoxides davidis 3, 5, 13, 17, 18, 20, 26, 27, 73, 77
Paradoxides groomi Grit 109
Paradoxides s.l. harknessi 5, 6, 12, 13, 15
Paradoxides intermedius 73
Paradoxides (Mawddachites) hicksii 5, 8, 12, 13, 15, 16, 20, 27, 73
 parasequences 85, 114
Parasolenopleura 13, 15
Parasolenopleura elegans 5, 10, 13, 20
 Park Hill Member 104, 124
 Pebidian Supergroup 35, 37, 39, 44, 49, 54, 125
 deposition/sedimentary environment 118, 119
 Pembrokeshire, Cambrian geology 3, 4, 7
 Pembrokeshire Coast Footpath 3
 Pen-y-Cyfrwy Member 22, 55, 60
 biostratigraphy 12, 15
 lithology and biota 66
 sequence stratigraphy 104, 109
 Penpleidiau 20, 23, 38
 peri-Gondwanan terranes 4, 7
Peronopsis 20, 27
Peronopsis fallax conica 5, 26
Peronopsis fallax depressa 5, 13, 16, 20, 26, 27
Peronopsis redita 5, 73
Peronopsis scutalis 5, 12, 27, 80
Peronopsis scutalis cf. exarata 5, 15, 20, 21, 26
Peronopsis scutalis scutalis 5, 13, 16, 20, 26, 27
Peronopsis scutalis tenuis 15
Phalacroma? 27, 73
Phalacroma bibullatum 26
Phalagnostus 27, 73
Phalagnostus cf. nudus 26, 27
Phalagnostus eskriggei 5
 ‘Phycodes pedum’ 9
 piedmont generation 120, 121, 122, 124
 Placentian Series 102, 106
Planolites 9
 Caer Bwdy Bay Formation 54, 55
 Caerfai Bay Formation 53
 Menevia Formation 75
 Newgale Formation 64, 66
 Ogof Velvet Formation 87
 Porth Clais Formation 71
 St Non’s Formation 49, 51
 Whitesands Bay Formation 73
 platform succession 7
Pleuroctenium cf. bifurcatum 13, 19, 27
Pleuroctenium granulatum granulatum 15
Pleuroctenium granulatum scanense 5, 26
Pleuroctenium granulatum s.l. 5, 13, 27
Pleuroctenium tuberculatum 5, 26
Plutonides sedgwickii 5, 6, 12, 15
Plutonides? aff. *intermedius* 73
Plutonides? cf. *sjoegreni* 12, 13, 15, 72
Plutonides? *illingi* 5, 10, 13, 20
 Point St John 15, 22
 Porth Cadnaw 15, 22
 Porth Clais Formation 2, 4, 22, 23, 24, 38
 biostratigraphy 5, 12–13, 15
 biota and age 72
 distribution 71–72
 Lithofacies PC1: pebbly sandstone 68
 Lithofacies PC2: unstratified sandstone 68–69
 Lithofacies PC3: cross-stratified laminated sandstone 69–70
 Lithofacies PC4: stratified sandstone 69, 70–71
 Lithofacies PC5: silty mudstone 71
 lithology 52
 lithostratigraphy 34, 36, 66–72
 palaeoenvironment 59, 69, 70, 71
 sequence stratigraphy 104
 Porth-y-Rhaw 23, 24, 25
 biostratigraphy 26, 27
 Porth-y-Rhaw Group 2, 3
 biota and age 72
 deposition/sedimentary environment 118
 distribution 72
 lithostratigraphy 34, 36, 72
 post-extension 123, 124
 pro-delta environment 59, 73, 77, 78
Protocystites 26
Protocystites menevensis 27, 77
Protospongia 15, 21, 26, 27
Protospongia fenestrata 27, 80
Protospongia flabellata 80
Protospongia? *major* 15
Ptychagnostus 20, 21, 27, 73
Ptychagnostus atavus 11
Ptychagnostus s.l. barrandei 5, 10, 12, 13, 15, 20
Ptychagnostus s.l. ciceroides 5, 13, 16, 20, 26
Ptychagnostus s.l. davidis 5, 13, 16, 20, 26
Ptychagnostus punctuosus affinis 5, 20, 26
Ptychagnostus punctuosus punctuosus 5, 13, 19, 20
 pull-apart basins 125
 Purley Shale Formation 104, 108, 109
 ‘Purple Sandstone’ 34, 53, 66
 Pwll Strodyr Fault 7
- Quarry Ridge Grits 109, 110, 112
 Quarry Ridge Shales 110
 quasi-planar lamination 69, 70, 81, 84–85
- Random Formation 104, 106, 109
 ravinement 44, 46, 106, 123, 124
 Red *Callavia* Sandstone 12
 regression 54, 108, 113
 Rhinog Formation 104, 108, 109
Rhizocorallium 49, 51
 rhythmites 81, 82, 88
 rip-up clasts 62, 64, 65, 69, 70, 75, 76
 Rodinia, Gondwanan margin 7
Rusophycus, Ogof Velvet Formation 87
- Sahara Platform 128
 St David’s Anticline 3, 4
 St David’s Peninsula, structure 3, 4, 7
 St David’s Series 2, 9
 lithostratigraphy 34
 St Non’s Formation 2, 4, 38
 biota and age 49, 51
 distribution 51
 lithostratigraphy 34, 36, 40, 49–51

- nearshore marine lithology 40, 44, 47, 50–51, 106
 sedimentology and palaeoenvironment 50–51, 52
 sequence stratigraphy 104, 106
 sedimentation 106–116
 Megasequence 1 118–125, 126
 Megasequence 2 125–128
 sequence boundaries 110, 111, 112
 sequence stratigraphy, Avalonian platform 102–116
 Sequence 1 102, 104, 105
 Sequence 2 102, 104, 105, 106
 Sequence 3 104, 106
 Sequence 4 104, 106, 108–109
 Sequence 5 104, 109
 Sequence 6 104, 109–110, 112
 Sequence 7 104, 112–113
 Sequence 8 104, 113–116, 117
 Sequence 9 104, 105
 sills 22, 24, 26, 38
Sinusites 66, 71, 73, 76
Skolithos 9
 Caer Bwdy Bay Formation 54, 55
 Caerfai Bay Formation 53
 Newgale Formation 63, 65, 66
 Ogof Golchfa Formation 11, 44, 49
 Porth Clais Formation 71
 St Non's Formation 51
Solenopleuropsis variolaris 5, 13, 19, 20, 27
 Solva Group 2, 3
 biostratigraphy 15
 lithostratigraphy 34
 Solva Harbour 24, 26
 South Stack Formation 9
 South Stack Group 9
Stenothecca cornucopia 27
 stream flow 56, 57
 strike-slip tectonics 7, 9, 120, 124, 125
 subduction 7, 118, 120, 125
 subsidence 121, 123, 124
 successor basins 120, 125, 126
 swales 69–70
 syn-extension, Caerfai Group 121, 122, 124
 systems tracts 110, 111

 tectonism
 Sequence 3 106
 Sequence 5 109
 Sequence 7 112
 tectonostratigraphy 116, 118–128
Teichichnus
 Caer Bwdy Bay Formation 54, 55
 Caerfai Bay Formation 53
 Porth Clais Formation 71
 St Non's Formation 11, 49, 51
 tempestites 53, 70, 81, 87, 88, 89, 108, 114, 116
 Terrenewian Series 2, 11–12
 lithostratigraphy 34
 Scandinavia 109
'Theca' antiqua 15, 73
'Theca' corrugata 80
'Theca' penultima 73
 tidal channels 42, 81, 82, 84–85
 'tidalite' 106
Tomagnostus 21
Tomagnostus fissus 5, 8, 12, 13, 15, 27, 73
Tomagnostus perrugatus 5, 13, 16, 20, 26

 transgressive systems tracts 47, 48–49, 104, 106,
 108, 112, 113–114
 transtension-transpression cycles 124, 126
 Treffgarne Bridge Formation 2
 biostratigraphy 13
 biota and age 91
 lithostratigraphy 34, 90–91
 Tremadoc Group 2
 Tremaenhir Syncline 3, 72
Trichophycus pedum 9
 trilobites 5, 6, 8, 10, 11, 12–21, 26–27
 Trwyn-y-Fulfran Formation 104, 110
 Trwyncynddeiriog 15, 22
 Trwyncynddeiriog Member 55, 60, 65, 104, 108, 109
 turbidites
 Caerfai Bay Formation 53
 Clogau Formation 113
 Gamlan Formation 112, 113
 Menevia Formation 76
 Newgale Formation 58–59, 60, 61, 62, 63, 66
 Porth Clais Formation 69, 70–71
 Sequence 4 108
 Sequence 6 109–110, 112
 Sequence 8 114
 Whitesands Bay Formation 73
 turbidity currents
 Newgale Formation 60, 61, 62, 63–64, 65
 Porth Clais Formation 69, 70–71
 Sequence 8 114
 Tuttle Hill Member 104, 124

 unconformity
 Caer Bwdy Bay and Newgale formations 55
 Cwm Mawr Member 12
 fault-block rotation 108
 Hanford Brook Formation 109
 Menevia and Aber Llong formations 74, 78
 Ogof Golchfa Formation 39
 Precambrian/Cambrian 106
 Sequence 6 base 112
 Whitesands Bay and Porth Clais formations 68, 72
 Upper Solva Beds 2, 3, 33, 34, 72
 see also Whitesands Bay Formation

 wavy bedding 58, 65, 79, 80–82, 114
 Welsh Borderland Fault System 4, 103, 108, 120, 125
 'Welsh Hook Beds' 35, 54
 West African Craton 127
 West Avalonia 4, 7, 101–102, 106, 112
 tectonic regime 118
 West Gondwana 4, 7, 127
 Whitesands Bay 22
 Whitesands Bay Formation 2, 4, 23, 24,
 25, 26, 27, 38, 68
 biostratigraphy 5, 13
 biota and age 73
 distribution 73
 lithology 52, 73, 75
 lithostratigraphy 34, 36, 67, 72–73
 palaeoenvironment 73
 sequence stratigraphy 112, 113
 Wrekin Quartzite Formation 104, 110
 Wrekin Terrane 4, 103, 108, 126

 'Zebra facies' 73, 74, 75, 76, 77