

Bedrock Geology of Ireland



Scale: 1:1,000,000

Onshore geology presents the bedrock data from the OneGeology-Europe map project (www.onegeology-europe.org) coloured to an Irish lithostratigraphical scheme. Derived from the Geological Survey of Ireland 1:500,000 Bedrock Geological map of Ireland and 1:100,000 Bedrock Map Series and the Geological Survey of Northern Ireland 1:250,000 Geological Map of Northern Ireland.

Offshore data are derived from the EMODnet project map (www.emodnet-geology.eu) compiled by GSI from Petroleum Affairs Division and INFOMAR (www.infomar.ie) mapping and other published sources. Contains British Geological Survey materials © NERC (1982, 1986, 2009).

Published by the Geological Survey of Ireland under authority of the Director, K. Verbruggen.
© Geological Survey of Ireland 2014, Beggars Bush, Haddington Rd, Dublin 4.
Citation: Geological Survey of Ireland, 2014. Bedrock Geology of Ireland, 1:1,000,000 Scale (map).



Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádirtha
Department of Communications, Energy and Natural Resources

Includes Ordnance Survey of Ireland data reproduced under OSI Licence number EN 0047214. Mapping © Ordnance Survey Ireland and Government of Ireland.

This publication contains material that is based upon Crown Copyright and is reproduced with permission of Land & Property Services under Delegated Authority from the Controller of Her Majesty's Stationary Office, © Crown Copyright and database rights 2014.

Bedrock Geological Legend

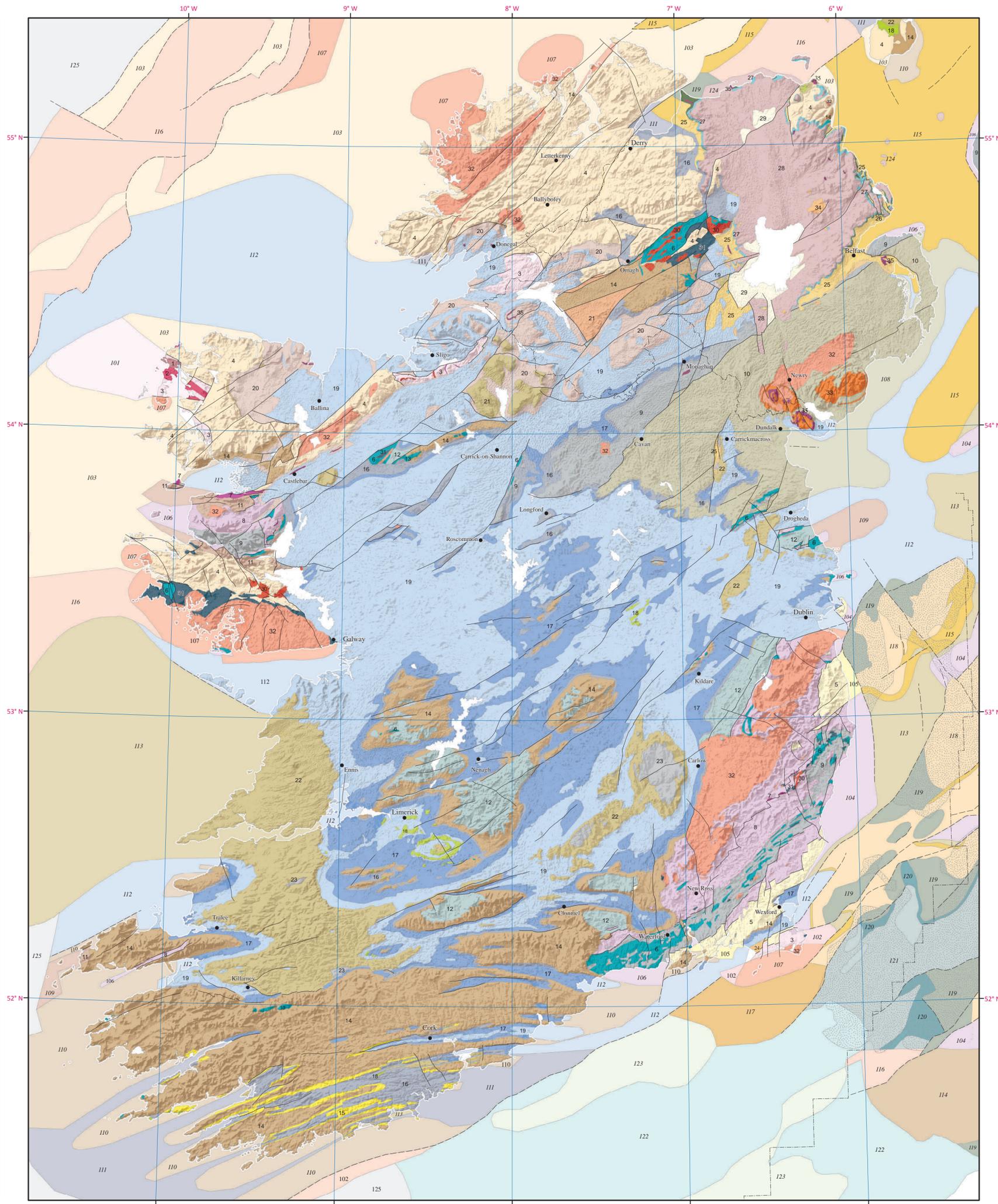
Offshore

Onshore

Age / Unit	Code	Description
Paleogene to Neogene sediments (overlay, St. George's Channel)		
Neogene sedimentary material	125	
Paleogene basalt	124	
Paleogene limestone & claystone	123	
Upper Cretaceous limestone	122	
Upper Jurassic mudstone & sandstone	121	
Middle Jurassic limestone & mudstone	120	
Lower Jurassic mudstone & limestone	119	
Middle to Upper Triassic mudstone, sandstone, evaporite	118	
Triassic to Cretaceous sandstone, mudstone, limestone	117	
Mesozoic sedimentary rocks	116	
Permian to Triassic sandstone & mudstone	115	
Upper Paleozoic to Mesozoic sedimentary rocks	114	
Pennsylvanian sandstone, mudstone, coal	113	
Mississippian limestone & calcareous shale	112	
Mississippian sandstone, mudstone, limestone	111	
Devonian sandstone & conglomerate	110	
Silurian sandstone & mudstone	109	
Ordovician to Silurian sandstone & mudstone	108	
Ordovician to Devonian granitoid & other igneous rocks	107	
Ordovician sandstone, slate & volcanic rocks	106	
Cambrian sandstone & quartzite	105	
Lower Paleozoic metasedimentary rocks	104	
Neoproterozoic to Lower Paleozoic metasedimentary rocks	103	
Neoproterozoic schist & gneiss	102	
Paleoproterozoic to Mesoproterozoic gneiss & schist	101	
Quaternary		
Oligocene clay, sand & lignite	29	
Paleocene basalt lava	28	
Upper Cretaceous chalk, flint, glauconitic sandstone	27	
Lower Jurassic mudstone & limestone	26	
Triassic sandstone, mudstone, evaporite	25	
Permian sandstone, conglomerate, evaporite	24	
Westphalian shale, sandstone, siltstone & coal	23	
Namurian shale, sandstone, siltstone & coal	22	
Viséan to Westphalian sandstone, conglomerate & mudstone	21	
Viséan sandstone, mudstone & evaporite	20	
Viséan limestone & calcareous mudstone	19	
Carboniferous volcanic rocks	18	
Tournaisian limestone	17	
Tournaisian sandstone, mudstone, limestone	16	
Upper Devonian sandstone & mudstone	15	
Old Red Sandstone; sandstone, conglomerate & mudstone	14	
Devonian volcanic rocks	13	
Silurian mudstone, greywacke & conglomerate	12	
Silurian sandstone, siltstone, conglomerate	11	
Late Ordovician to Silurian greywacke, mudstone	10	
Middle to Upper Ordovician slate, sandstone, greywacke, conglomerate	9	
Lower to Middle Ordovician slate, sandstone, greywacke, conglomerate	8	
Serpentinite & sedimentary melange (Paleozoic)	7	
Ordovician volcanic rocks	6	
Cambrian greywacke, slate, quartzite	5	
Neoproterozoic (to Cambrian?) metasedimentary rocks - Dalradian	4	
Neoproterozoic schist & gneiss	3	
Mesoproterozoic gneiss	2	
Paleoproterozoic gneiss	1	
Paleogene basic intrusive rocks	35	
Paleogene rhyolite	34	
Paleogene granitic rocks	33	
Siluro-Devonian granitic rocks & appinite	32	
Lower Paleozoic gabbroic - dioritic rocks	31	
Ordovician granitic rocks	30	

- international border
- faults, onshore
- - - faults, offshore

Geological time column drawn to scale for the Phanerozoic (Ma=million years ago). Grey shading joining the onshore unit legend to the time column shows stratigraphical ranges for Ireland as a whole; individual successions contain many more breaks. Gaps between grey areas indicate that no rocks of that age are preserved at the surface onshore.



Scale 1:1,000,000
0 12.5 25 50 75 100 Kilometres

Geological Survey of Ireland, © 2014.

