

Arbigland Limestone Member

From Earthwise

[Jump to navigation](#) [Jump to search](#)

Contents

- [1 Arbigland Limestone Member \(ARLM\), Carboniferous, Northern England Province](#)
 - [1.1 Name](#)
 - [1.2 Lithology](#)
 - [1.3 Stratotype](#)
 - [1.4 Lower and upper boundaries](#)
 - [1.5 Thickness](#)
 - [1.6 Distribution and regional correlation](#)
 - [1.7 Age and biostratigraphical characterisation](#)
- [2 References](#)

Arbigland Limestone Member ([ARLM](#)), Carboniferous, Northern England Province

Arbigland Limestone Member is part of the [Tyne Limestone Formation](#)

Name

Previously known as Arbigland Group (Craig, 1956^[1]) and Arbigland Beds (Deegan, 1970^[2]). The status was changed from the Arbigland Limestone Formation (Lintern and Floyd, 2000^[3]) to a member of the Tyne Limestone Formation.

Lithology

The member comprises interbedded marine limestone, mudstone and subsidiary siltstone, with thick cross-bedded, bioturbated, medium-grained sandstone.

Stratotype

The type section is the Arbigland coast, Kirkcudbrightshire, from Arbigland (NX 9940 5720) to Hogus Point (NX 9970 5880), where mudstones, siltstones, sandstones, and limestones constitute a section probably more than 300.m thick (Craig, 1956^[1]; Deegan, 1970^[2]; but see Lintern and Floyd, 2000, p. 82^[3]).

Lower and upper boundaries

The base of the Arbigland Limestone Member is probably conformable on the Thirlstone Sandstone (Powillimount Sandstone Member, Fell Sandstone Formation) (Figure.10; Column 2). It is stratigraphically the highest unit in the Kirkbean Outlier, and its top is not exposed.

Thickness

More than 300 m.

Distribution and regional correlation

The Kirkbean Outlier of the Kirkcudbright.—Dalbeattie district.

Age and biostratigraphical characterisation

Asbian. The limestones and mudstones have an abundant and diverse fauna of corals (including *Lithostrotion clavatum*, *Siphonodendron scotica* and *Siphonophyllia benburbensis*), brachiopods (including *Actinopteria persulcata*, *Linoprotonia* cf. *ashfellensis*, *Productus* cf. *garwoodi*, *Punctospirifer scabricosta redesdalensis* and *Stenosiscisma* cf. *isorhyncha*), bivalves (including *Prothyris* cf. *oblonga* and *Pteronites* cf. *angustatus*) and other molluscs, crinoids and bryozoa. *Siphonophyllia benburbensis* is unknown in strata earlier than the Asbian.

References

- ↑ ^{1 0} ^{1 1} Craig, G Y, and Nairn, A E M.1956.The Lower Carboniferous outliers of the Colvend and Rerrick shores, Kirkcudbrightshire.*Geological Magazine*, Vol. 93, 249-256
- ↑ ^{2 0} ^{2 1} Deegan, C E.1970.The petrology and sedimentology of the Lower Carboniferous rocks between White Port and Kirkbean, Kirkcudbrightshire. Unpublished PhD thesis, University of Wales, Aberystwyth
- ↑ ^{3 0} ^{3 1} Lintern, B C, and Floyd, J D.2000.Geology of the Kirkcudbright-Dalbeattie district.*Memoir of the British Geological Survey*, Sheets 5W and 5E, part 6W (Scotland)

Retrieved from

'http://earthwise.bgs.ac.uk/index.php?title=Arbigland_Limestone_Member&oldid=52883'

Category:

- [Carboniferous lithostratigraphical nomenclature](#)

Navigation menu

Personal tools

- Not logged in
- [Talk](#)
- [Contributions](#)
- [Log in](#)
- [Request account](#)

Namespaces

- [Page](#)
- [Discussion](#)

Variants

Views

- [Read](#)
- [Edit](#)
- [View history](#)
- [PDF Export](#)

More

Search

Navigation

- [Main page](#)
- [Recent changes](#)
- [Random page](#)
- [Help about MediaWiki](#)

Tools

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Permanent link](#)
- [Page information](#)
- [Cite this page](#)
- [Browse properties](#)

• This page was last modified on 26 July 2021, at 15:54.

- [Privacy policy](#)
- [About Earthwise](#)
- [Disclaimers](#)

•



•

