

North Berwick Pyroclastic Member

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

Contents

- [1 North Berwick Pyroclastic Member \(NBPY\), Carboniferous, Midland Valley of Scotland](#)
 - [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](#)
- [2 References](#)

North Berwick Pyroclastic Member (**[NBPY](#)**), Carboniferous, Midland Valley of Scotland

North Berwick Pyroclastic Member is part of the the [Garleton Hills Volcanic Formation](#)

Name

Previously named the North Berwick Member (see McAdam and Tulloch, 1985^[1]).

Lithology

The North Berwick Pyroclastic Member consists of green (lower part in the north) and red (all in the south) tuffs, lapilli-tuffs and agglomerate locally with sedimentary intercalation of a lacustrine limestone, the Sunnyside Limestone, up to 2.9 m thick. These are commonly well bedded and waterlain and interbedded with volcanoclastic sedimentary rocks including thin dolostones and siliciclastic mudstones with sandstones showing ripple marks.

Stratotype

The type area is East Lothian (NT 4500 6900 to 6300 8500) around North Berwick, East Linton, the Garleton Hills, and Stenton (see Davies et al., 1986, fig. 10^[2]; McAdam and Tulloch, 1985, fig. 17^[1]). Complete reference sections are provided by the IGS East Linton 2 Borehole (BGS Registration Number NT57NE/2) (NT 59664 77091) from about 48.8 to 104.2 m depth, and the Spilmersford Borehole (BGS Registration Number NT46NE/73) (NT 4570 6902) from about 476 to 544 m depth.

Lower and upper boundaries

The base is conformable on the underlying Ballagan Formation (Inverclyde Group). The change is transitional by interbedding of tuff and lapilli-tuff into the underlying siliciclastic and carbonate

rocks.

The member is overlain by the basaltic lavas of the East Linton Lava Member to the south of the Dunbar-Gifford Fault where the somewhat younger siliciclastic Gullane Formation rests directly on it. The contact is conformable and locally unconformable.

Thickness

Between 0 and 220 m

Distribution and regional correlation

East Lothian, outcrop of the Garleton Hills Volcanic Formation around North Berwick, East Linton, Garleton Hills, Stenton and in the subcrop farther west in the BGS Spilmersford Borehole (see above) near Pencaitland, and south to the Lammermuir Fault.

Age

Early Visean (Chadian to Arundian)

References

- ↑ ^{1 0} ^{1 1} McAdam, A D, and Tulloch, W.1985.Geology of the Haddington district.*Memoir of the British Geological Survey*, Sheet 33W, part 41 (Scotland).
- ↑ Davies, A, McAdam, A D, and Cameron, I B.1986.Geology of the Dunbar district.*Memoir of the British Geological Survey*, Sheet 33E and part of Sheet 41 (Scotland)

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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](#)

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

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