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# Foraminifera from two samples in the Newbury neighbourhood

Internal Report IR/03/030



BRITISH GEOLOGICAL SURVEY

INTERNAL REPORT IR/03/030

# Foraminifera from two samples in the Newbury neighbourhood

I.P. Wilkinson

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*Key words*

Foraminifera, biostratigraphy,  
Late Cretaceous..

*Bibliographical reference*

WILKINSON, I.P. 2003  
Foraminifera from two samples  
in the Newbury neighbourhood.  
*British Geological Survey  
Internal Report, IR/03/030. 2pp*

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## Summary

This report describes the foraminifera from two samples of Chalk from the Newbury sheet. Both are of a similar age, the early part of foraminiferal zone BGS18 (probably Subzone 18ii), which equates with the lower part of the *socialis* macrofaunal zone, can be recognised. The basal Newhaven Chalk is inferred.

# 1 Introduction

Two samples of Chalk (MPA51443-51444) were submitted for foraminiferal analysis. Both samples contained a fauna characteristic of early part of foraminiferal zone BGS18 (probably Subzone 18ii), equating to the lower part of the *socialis* macrofaunal zone.

## 2 Sample details and selected foraminifera

### 2.1 MPA51443 (Field Number SU36NW1)

This sample, from SU3424 6561, contained a diverse foraminiferal fauna including:

*Gavelinella cristata*  
*Reussella szajnochae praecursor*  
*Stensioeina exsculpta exsculpta*  
*Gavelinella stelligera*  
*Stensioeina granulata*  
*Eouvigerina gracilis*  
*Stensioeina granulata perfecta*

The presence of *Gavelinella cristata* and *Stensioeina granulata perfecta* are indicative of an age no older than BGS 18ii (WILKINSON, 2000), the lower *socialis* zone. The absence of species of the genus *Bolivinooides* indicates that the sample is unlikely to have derived from a position high in the *socialis* zone or higher. A position above Peake's Sponge Bed (and lateral equivalents) is indicated and the basal Newhaven Chalk is inferred.

### 2.2 MPA51444 (FIELD NUMBER SU36NW2)

This sample, from SU3144 6674, contained a moderately diverse foraminiferal fauna including:

*Gavelinella cristata*  
*Reussella szajnochae praecursor*  
*Gavelinella stelligera*  
*Stensioeina granulata*  
*Stensioeina granulata perfecta*  
*Cibicides beaumontianus*  
*Reussella kelleri*

The presence of *Gavelinella cristata* and *Stensioeina granulata perfecta* are indicative of an age no older than BGS 18ii (WILKINSON, 2000), the lower *socialis* zone. The absence of species of the genus *Bolivinooides* indicates that the sample is unlikely to have derived from a position stratigraphically higher. A position above Peake's Sponge Bed (and lateral equivalents) is indicated and the basal Newhaven Chalk is inferred.

### 3. References

WILKINSON, I.P. 2000. A preliminary foraminiferal biozonation of the Chalk Group (In preparation for the Holostrat Project: Upper Cretaceous). *British Geological Survey Internal Report*, IR/00/13, 21pp.