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Chalk foraminifera from the Codford, Stockton, Chilmark, Deptford area, Wiltshire

Internal Report IR/04/084

BRITISH GEOLOGICAL SURVEY

INTERNAL REPORT IR/04/084

Chalk foraminifera from the Codford, Stockton, Chilmark, Deptford area, Wiltshire

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Summary

Foraminifera from a suite of samples near Salisbury, were of foraminiferal zones BGS11 to BGS17.

1 Introduction

Seven samples of chalk were examined in order to provide biostratigraphical age determinations from the Chalk near Salisbury.

2 Sample details and biostratigraphical conclusions

Selected species are listed herein, complete species lists are held on Palaeontology & Biostratigraphy logging sheets.

2.1 MPA52643 PMH3586 ST 96970 41669

Gavelinella tourainensis
Marginotruncana pseudolinneana
Marginotruncana cf sinuosa
Dicarinella imbricata
Arenobulimina presli

Conclusions: A poorly preserved fauna is placed no lower than BGS11 and no higher than BGS12 (*lata* to *planus* zones). The Upper Newpit to Lewis Nodular Chalk is indicated.

2.2 MPA52646 PMH3689 ST 96115 35984

Lingulogavelinella arnagerensis
Stensioeina granulata granulata
Stensioeina polonica
Stensioeina exsculpta exsculpta

Conclusions: The fauna is indicative of BGS17i which is found in the Upper Seaford Chalk, between Chartham Flint and immediately above Whitaker's 3" Flint (and lateral equivalents).

2.3 MPA52647 PMH3690 ST 96111 35375

Lingulogavelinella arnagerensis
Stensioeina cf polonica

Conclusions: As for MPA52646

2.4 MPA52648 PMH3691 ST 96323 34209

Stensioeina granulata
Gavelinella lorneiana
Valvulineria lenticularis
Osangularia cordieriana

Conclusions: The fauna is placed no lower than BGS14 (basal *coranguinum* macrofaunal zone). The absence of *Stensioeina exsculpta exsculpta* and *Loxostomum eleyi* probably rules out BGS15 and 16. Basal Seaford Chalk is suggested.

2.5 MPA52654 PMH3697 ST 99851 34957

Stensioeina polonica

Valvulineria lenticularis

Stensioeina exsculpta exsculpta

Conclusions: The *S. polonica* Zone (BGS17) (upper *coranguinum* macrofaunal Zone) is situated in the Upper Seaford Chalk, between Chartham Flint and Peake's Sponge Bed (and lateral equivalents).

2.6 MPA52658 PMH3701 SU 00357 40023

Osangularia cordieriana

?*Lingulogavelinella arnagerensis*

Gavelinella pertusa

Conclusions: The fauna is of very poor preservation, but Foraminiferal Zone BGS14 to 17 (*coranguinum* macrofaunal Zone) is indicated and the Seaford Chalk is suggested.

2.7 MPA52659 PMH4702 SU 01757 42038

Stensioeina polonica

Conclusions: As for 52654.

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