



## Correlation of Quaternary Deposits in Gloucestershire

Formations and Members have been correlated as closely as possible with oxygen isotope stages, and where appropriate, River Terraces as described on British Geological Survey Mapping

		Valley Systems																
		Severn System				Warwickshire Avon System				Upper Thames System								
Oxygen Isotope Stratigraphy	Stage	Estuarine Deposits (Severn Estuary)	Severn Valley	Leadon Valley	Frome Valley (Stroud)	Avon Valley	Upper Thames Valley	River Windrush	Rivers Churn, Upper Coln & Upper Leach									
1	Flandrian	Northwick Formation Awre Formation Rumney Formation Wentlooge Formation	Elmore Member	Elmore Member	Elmore Member	Elmore Member	Staines Member	No formal stratigraphical nomenclature or correlation of terraces identified	No modern stratigraphy available									
		Correlation with Severn Terraces					Correlation with Avon Terraces			Correlation with Thames Terraces								
2	Devenian		Severn Valley Formation	Power House Member Worcester Member Holt Heath Member	Glynch Valley Formation	Rudford Member Staunton Member	No formal stratigraphical nomenclature identified	Stroud Terrace Cainscross Terrace	Whitminster Terrace	1st Terrace 2nd Terrace	Avon Valley Formation	Bretford Member/Knee Brook Wasperton Member	1st Terrace	Upper Thames Valley Formation	Northmoor Member	Rissington Member Sherborne Member	Deposits referred to as "BGS 1st Terrace"	
3																		
4																		
5																		
5e		Ipswichian																
6	Wolstonian		5th Terrace	Bushley Green Member	Heath Member	5th Terrace	Pershore Member											
7																		
8																		
9	Hoxnian		6th Terrace	Hill House Bed														
10																		
11																		
12	Anglian		Wolston Fmn	Woolridge Member Thrussington Member	Risbury Fmn	Limbury Member Coddington Member White House Member				Wolston Fmn	Wolford Heath Member Oadby Member Moreton Member Paxford Gravel Member		3rd Terrace	Upper Thames Valley Formation	Wolvercote Member			
13	Cromerian				Mathon Valley Fmn	Mathon Member							4th Terrace		Hanborough Member			
14																		
15																		
16	Pre-Cromerian																	
17																		

This initial attempt at correlation and classification is based upon literature research by Dr. Nick Chidlaw (personal communication) and on classifications published in Bowen, D.Q. (Ed) (1999) A revised correlation of Quaternary deposits in the British Isles, Geol Soc Spec Rep 23. It concentrates on the recognised formations and members with formal nomenclature classification. Missing from the table are those deposits which have limited representation in the county (River Wye Terrace deposits), and others which have yet to be given formal stratigraphic positions. These include some well recognised deposits such as Northern Drift and other, less easily qualified deposits, such as the aeolian/fluviatile Cheltenham Sand & Gravel, alluvial cones, solifluction deposits (Head and Fan Gravel) landslides, freshwater limestones (tufaceous limestone and speleothems) and Cave Earths.



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