

GSA Data Repository Item # 7526

Title of article Tertiary marine paleotemperatures

Author(s) S. M. Savin, et al.

see GSA Bulletin v. 86, p. 1499 - 1510

Contents 4 pages

Appendix - Isotopic data not previously published

DSDP Site 15 and others

APPENDIX
ISOTOPIC DATA NOT PREVIOUSLY PUBLISHED
DSDP SITE 15

APPENDIX
ISOTOPIC DATA NOT PREVIOUSLY PUBLISHED
DSDP SITE 15

CORE	Depth (cm)	Zone	<u>G. dehtscens</u>			<u>S. seminulina</u>			<u>G. conglomerata/ G. hirsuta</u>			Benthonic composite			
			δ^{18}	No. runs	Av. * dev.	δ^{13}	δ^{18}	No. runs	Av. dev.	δ^{13}	δ^{18}	No. runs	Av. dev.	δ^{13}	δ^{18}
	194 to 196 } 244 to 246 } 294 to 296 }	"												+2.31	2 .31 +1.16
"	344 to 346	"	+0.58	2	.09	+2.76									
"	394 to 396	"	+0.82	2	.02	+2.25									
"	466 to 468	"	+0.98	2	.07	+2.56									
"	470 to 472	"	+1.07	2	.02	+2.44									
"	475 to 477	"	+0.94	2	.01	+2.46									
"	485 to 487	"	+1.09	2	.02	+2.39									
"	475 to 477 } 485 to 487 }	"												+1.96	2 .04 +1.64
"	507 to 509	"	+0.84	2	.03	+2.54								+2.19	2 .02 +1.23
"	512 to 514	"	+0.69	2	.08	+2.58								+2.13	3 .08 +1.27
"	520 to 522	"	+0.82	2	.06	+2.50								+2.01	2 .07 +1.19
"	533 to 535	"	+0.60	2	.05	+2.89								+1.72	2 .03 +1.15
"	547 to 549	"	+0.49	2	.07	+2.54								+1.86	3 .05 +1.12
"	615 to 622	"	+0.78	2	.06	+2.63									
"	620 to 622	"	+0.64	2	.06	+2.64									
"	625 to 627	"	+0.82	2	.05	+2.76									
"	644 to 646	"	+0.80	2	.09	+2.78									
"	694 to 696	"	+0.88	2	.12	+2.59									
"	698 to 700	"	+0.91	2	.07	+2.58									
"	625 to 627 } 698 to 700 }	N7/N8												+1.80	2 .05 +1.51
"	710 to 712	"	+0.90	2	.05	+2.63								+1.53	2 .02 +1.43
"	755 to 757	N6												+2.18	2 .05 +1.48
"	767 to 769	"												+2.18	2 .06 +1.42
"	775 to 777	"												+2.12	2 .01 +1.37
"	844 to 846	"	+0.88	2	.12	+2.33								+0.61 ^h	2 .16 +2.37

(3) of 4

[illegible]

ISOTOPIC DATA NOT PREVIOUSLY PUBLISHED
OTHER SITES

Site	Core	Depth(cm)	Zone	Planktonic species	Planktonic foraminifera			Benthonic assemblage				
					δ^{18}	No. runs	Av. dev.	δ^{13}	δ^{18}	No. runs	Av. dev.	δ^{13}
55	10	70 to 73.5 760 to 765 860 to 865	"						+2.10	2	.06	+0.66
64.1	1	335 to 340	N8/N9	<u>G.dehiscens</u>	-0.96	3	.04	+2.95				
	3	505 to 510	N6	"	-0.67	2	.01	+2.43				
	4	200 to 205	"	"	-1.03	2	.02	+2.76				
71	23	502 to 506	N7	<u>G.dehiscens</u>	+0.19	2	.03	+2.24				
	29	373 to 377	N6	"	+0.10	2	.07	+1.77				
78	3	330 to 334	N8/N9	<u>G.bisphericus</u>	-0.67	2	.05	+2.80				
	"	"	"	<u>G.dehiscens</u>	-0.41	2	.07	+3.15				
80A	4	35 to 39	N9	<u>G.ruber</u>	-0.70	3	.21	+2.64				
	"	"	"	<u>G.dehiscens</u>	-0.57	2	.07	+3.01				
167	6	CC	N9						+1.70	2	.13	+1.28
	10	CC	P22						+2.09	2	.02	+0.98
	12	CC	P22	assemblage	+0.31	4	[.23]	+0.85				
	33	CC	P14						+0.62	3	.03	+0.60
171	5	CC	P21	assemblage	+0.58	2	.10	+1.28				
	9	CC	L.Maast.	assemblage	-1.81	3	[.05]	+1.96				
Eltanin	21-3	370 to 373	N13	<u>O.saturalis</u>	+0.80	2	.04	+2.93	+3.16	2	.05	+2.43
	"	"	"	<u>G.dehiscens</u>	+1.08	2	.02	+2.63				
	"	384 to 388	"	<u>G.dehiscens</u>	+0.87	2	.01	+2.65				
	"	"	"	<u>O.saturalis</u>	+1.06	1	--	+2.72				
	24-10	182 to 185	P11/P12	<u>A.primativa</u>	+0.41	2	.10	+2.39	+0.95	2	.02	+0.60
	"	"	"	<u>G.index</u>	+0.43	2	.10	+2.22				
Eltanin	24-16	101 to 104	N8/N9	<u>S.seminulina</u>	+0.94	2	.05	+3.48				
	"	310 to 314	"						+2.15	2	.07	+0.78
	"	401 to 404	"	<u>G.dehiscens</u>	+1.50	2	.05	+2.04				

* Average deviations in square brackets refer to analysis of more than one aliquot of calcium carbonate.

Other average deviations refer to multiple mass spectrometric analyses of the same CO₂ gas.

† G.hirsuta is denoted by the superscript "h". G. conglomerata is denoted by the superscript "c".

§ Other analyses of Site 44.0 material are given in Douglas and Savin (1971).

Other analyses of Site 47.2 material are given in Douglas and Savin (1971) and in press.

** Other analyses of Site 55 material are given in Douglas and Savin (1971).

†† Other analyses of Sites 167 and 171 material are given in Douglas and Savin (1973). Where the results of Douglas and Savin (1973) and this work are not in agreement, these results should take preference.