DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Pliocene planktic foraminifer census data from the North Atlantic region

PRISM Project Members
US Geological Survey, Reston, VA 20192

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INTRODUCTION

The U.S. Geological Survey is conducting a long-term study of the climatic and oceanographic conditions of the Pliocene known as PRISM (Pliocene Research, Interpretation, and Synoptic Mapping). One of the major elements of the study involves the use of quantitative composition of planktic foraminifer assemblages to estimate sea-surface temperatures and identify major oceanographic boundaries and water masses (Dowsett, 1991; Dowsett and Poore, 1991; Dowsett et al., 1992; Dowsett et al., 1994). We have analyzed more than 900 samples from 19 core sites in the North Atlantic Basin (Fig. 1) resulting in a large volume of raw census data. These data are presented here together to facilitate comparison of North Atlantic faunal assemblages.

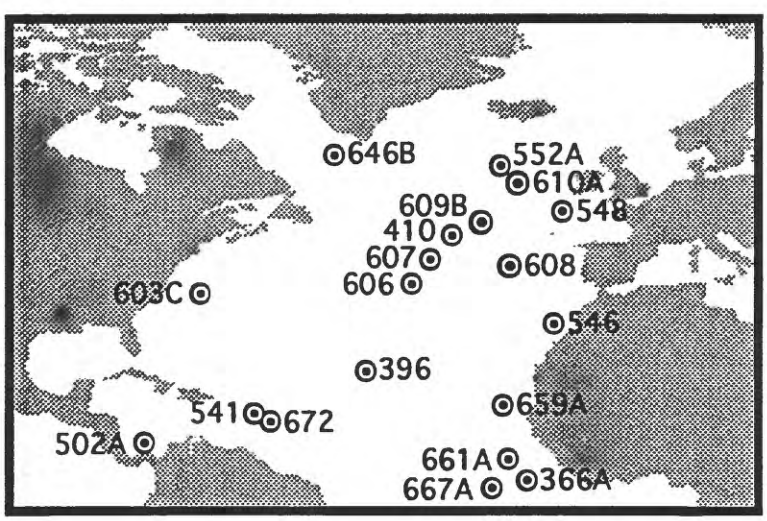

Figure 1. Location of sites discussed in text.

Latitude, longitude, water depth, source of faunal data and source of data used to construct age model (or publication from which age model was taken) are provided for each locality in Table 1. All ages refer to the geomagnetic polarity time scale of Berggren et al. (1985). Counts of species tabulated in each sample are given in Tables 2-20. DSDP and ODP sample designations are abbreviated in Tables 2-20 as core-section, depth within section in centimeters (eg. 10-5, 34 = core 10, section 5, 34 cm below top of section 5).

Table 1. Location and water depth of sites included in this report, original sources of faunal data, and reference for age models included with faunal data sets.

Site	Latitude	Longitude	Water depth (m)	Original faunal data source	Age model
366A	5.68	-19.85	2860	Dowsett et al., 1988	Cepek et al.,1978
396	22.90	-43.50	4450	Wiggs & Dowsett, 1992	Bukry, 1978
410	45.51	-29.48	2975	Dowsett et al., 1988	Poore, 1978
502A	11.49	-79.38	3051	Wiggs & Poore, 1991	Dowsett, 1989
541	15.50	-58.73	4940	Dowsett & Polanco, 1992	Wilson, 1984
546	33.80	-9.60	3958	Dowsett & Polanco, 1992	Hinz et al., 1984
548	48.50	-12.00	1251	Loubere & Moss, 1986	Dowsett & Loubere, 1992
552A	56.04	-23.23	2301	Dowsett & Poore, 1990	Dowsett & Poore, 1990
603C	35.49	-70.03	4633	Poore, 1991	Canninga et al., 1986
606	37.34	-35.50	3007	Dowsett et al., 1988	Dowsett, 1989
607	41.00	-32.96	3427	Dowsett & West, 1992	Baldauf et al., 1986
608	42.90	-23.10	3526	This paper	Baldauf et al., 1986
609B	49.88	-24.24	3883	This paper	Baldauf et al., 1986
610A	53.22	-18.89	2417	This paper	Baldauf et al., 1986
646B	58.25	-48.33	3451	Dowsett et al., 1988	Baldauf et al., 1989
659A	18.00	-21.10	3070	Foley & Dowsett, 1992	Weaver et al., 1989
661A*	9.45	-19.39	4006	Dowsett & West, 1992	Weaver et al., 1989
667A	4.55	-21.90	3529	Foley and Dowsett, 1992	Weaver et al., 1989
672A	15.50	-58.50	4975	Wiggs and Dowsett, 1992	Moore, Mascle, et al., 1988

*R.Z. Poore responsible for faunal data

METHODS

The samples used in this study were processed using low temperature (isotopic) techniques. This includes sample disaggregation in water, drying at ≤50°C, and seiving into 63 µm - 149 µm and ≥149 µm size fractions. Following standard procedures, some samples required additional treatment with Calgon or H_2O_2 added to the wash to obtain clean specimens.

A split of 300-350 planktic foraminifer specimens was obtained from the ≥149 µm size fraction using a Carpco sample splitter. Specimens were identified, sorted, and fixed to a standard 60-square micropaleontological slide.

COUNTING CATEGORIES

Taxa included in Tables 2-20 are summarized in a comprehensive list below. In general, our taxonomic concepts follow Parker (1962; 1967) and Blow (1969); exceptions to their practices are noted below.

Candeina nitida d'Orbigny

Dentoglobigerina altispira (Cushman and Jarvis)

Globoquadrina venezuelana (Hedberg)

Globigerina bulloides (d'Orbigny)
We include *Globigerina praebulloides* Blow in this category.

Globigerina calida Parker

Globigerina conglomerata (Schwager)

Globigerina decoraperta Takayanagi and Saito

Globigerina digitata Brady

Globigerina eamesi Blow

Globigerina falconensis Blow

Globigerina incisa (Bronnimann and Resig)

Globigerina nepenthes Todd

Globigerina praedigitata Parker

Globigerina pseudobesa (Salvatorini)

Globigerina pseudobulloides (Plummer)

Globigerina sp. 1
Taxon resembles *G. falconensis* but has reticulate surface texture similar to *G. woodi* group.

Globigerina woodi Jenkins
We include specimens of *Globigerina apertura* Cushman in this category.

Globigerinella aequilateralis (Brady)

Globigerinella siphonifera (d'Orbigny)

Globigerinita glutinata (Egger)

Globigerinoides conglobatus (Brady)

Globigerinoides obliquus Bolli
We include *G. extremus* Bolli and Bermudez in this category.

Globigerinoides ruber (d'Orbigny)

Globigerinoides sacculifer (Brady) s.l.
This category includes *G. quadrilobatus* (d'Orbigny) and *G. trilobus* (Reuss).

Globigerinoides spp.
Representatives of *Globigerinoides* (usually small) that could not be confidently assigned to *G. ruber*, *G. obliquus* (s.l.) or *G. conglobatus* are included in this category.

Globorotalia cibaoensis Bermudez

Globorotalia conomiozea Kennett

Globorotalia crassaformis (Galloway and Wissler) For the purpose of this report we have combined the census data of a number of taxa including *G. ronda* Blow, *G. oceanica* Cushman and Bermudez, *G. viola* Blow, and *G. crassula* Blow into this category.

Globorotalia hirsuta (d'Orbigny)

Globorotalia margaritae Bolli and Bermudez

Globorotalia menardii (Parker, Jones, and Brady) This category includes various members of the *G. menardii* lineage such as *G. limbata* (Fornasini) and *G. miocenica* Palmer.

Globorotalia praepumilio (Parker)

Globorotalia pumilio Parker
This category includes small forms with 5-7 chambers in the ultimate whorl that are similar to *Globorotalia pumilio* Parker, *G. praepumilio* (Parker) and *G. pseudopumilio* Bronnimann and Resig.

Globorotalia puncticulata (Deshayes) s.l.
This category includes *G. inflata* (d'Orbigny).

Globorotalia scitula (Brady) s.l.
This category includes various members of the *G. scitula* group, for example *G. subscitula* Conato.

Globorotalia spp.
This category includes rare *Globorotalia* not assigned to the other taxa listed here.

Globorotalia tosaensis Takayanagi and Saito We include occurrences of *Globorotalia truncatulinoides* (d'Orbigny) in this category.

Globorotalia tumida (Brady) s.l.
This category includes *G. plesiotumida* Blow and Banner.

Globorotaloides hexagona (Natland)

Neogloboquadrina acostaensis (Blow)
We include *N. continuosa* (Blow) in this category.

Neogloboquadrina atlantica (Berggren)
We separate sinistral and dextral coiled specimens. See Poore and Berggren (1975) for discussion of this highly variable taxon.

Neogloboquadrina humerosa (Takayanagi and Saito)

Neogloboquadrina pachyderma (Ehrenberg) Sinistral variety includes relatively small, compact *Neogloboquadrina* with 4-5 chambers in the ultimate whorl, kummerform ultimate chamber, and a slightly to distinct oval equatorial outline. Separating small sinistral *N. atlantica* from large sinistral *N. pachyderma* is arbitrary in many North Atlantic high-latitude sites. Dextral variety is confined to 4 chambers in the final whorl. Dextral coiled specimens with 4 1/2 chambers in the final whorl are tabulated in a "dupac" category.

Neogloboquadrina spp.
This category includes *Neogloboquadrina* that were not identified to specific level but generally does not include representatives of *N. atlantica.*

Orbulina universa d'Orbigny

Pulleniatina obliquiloculata (Parker and Jones)

Sphaeroidinellopsis spp.
This category includes members of the genera *Sphaeroidinella* and *Sphaeroidinellopsis.*

Turborotalita quinqueloba (Natland)

OTHER
This category includes unidentified specimens and taxa that are rare within assemblages from the cores.

TOTAL PLANKTICS
Total number of planktic forams in the counting split

FRAGMENTS
Fragments of planktic foraminifers

BENTHICS
Number of benthic foraminifers in planktic counting split

ACKNOWLEDGMENTS

This report and the census data it contains are products of the PRISM (Pliocene Research, Interpretation, and Synoptic Mapping) Project. A large number of scientists and technical and administrative support staffers are due thanks for the help they provided while these data were being produced. We thank Tom Cronin, Scott Ishman, and Debra Willard for reviewing this manuscript and acknowledge the technical help of Jean Self-Trail and Marci Robinson in the laboratory. We also thank the Ocean Drilling Program for supplying samples and thus making this study possible.

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Table 2. Planktic foraminifer census data, DSDP Hole 366A.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina nepenthes*	*Globigerina praedigitata*	*Globigerina pseudobulloides*	*Globigerina sp. 1*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globoquadrina venezuelana*	*Globorotalia cibaoensis*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia pumilio*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	"dupac"	*Neogloboquadrina spp.*	*Orbulina universa*	*Sphaeroidinellopsis spp.*	Other	Total planktics	Fragments
5-2,86	36.85	2.53	0	0	7	3	1	0	0	0	1	1	6	2	14	0	18	54	43	0	0	0	1	0	0	71	10	7	5	0	0	3	26	1	1	0	4	3	3	285	42
5-4,86	39.86	2.69	0	0	4	5	0	1	0	1	4	0	19	7	16	1	25	39	56	0	0	0	0	0	0	56	11	1	4	0	0	3	19	0	0	0	9	0	3	284	85
6-3,93	47.93	3.16	1	15	5	2	3	0	0	1	0	0	11	3	7	9	58	18	29	7	3	0	0	4	0	37	3	11	0	3	8	9	20	1	3	0	5	5	3	284	57
7-3,86	56.86	3.76	2	26	10	0	0	4	2	0	1	0	4	2	11	3	45	0	53	13	1	0	9	0	0	37	0	0	0	4	9	20	19	0	1	11	2	10	2	301	73
8-4,121	68.71	4.34	1	8	19	16	4	0	13	1	2	0	8	6	5	3	26	0	39	7	0	0	0	0	9	69	0	0	4	1	25	4	1	0	1	0	8	11	4	295	55
8-6,127	71.77	4.47	3	14	6	10	0	0	1	1	0	0	16	5	7	5	47	0	49	4	1	0	0	0	7	66	0	0	0	2	3	8	9	0	1	0	2	17	2	286	70
9-2,146	75.46	4.62	0	15	3	6	0	1	9	0	4	0	6	6	9	1	45	4	49	7	2	0	0	0	9	40	0	0	2	14	0	10	7	0	3	0	13	20	3	288	88
9-5,121	79.71	4.80	1	8	1	8	0	0	1	1	3	0	2	8	3	0	44	0	79	7	4	0	0	0	9	51	0	0	0	9	5	1	5	0	4	0	27	15	4	300	33
10-1,189	83.89	4.93	4	13	9	5	0	0	2	0	5	0	8	5	0	1	71	2	76	0	9	0	0	0	0	44	0	0	2	15	0	2	0	0	0	0	25	15	2	315	75
11-2,131	94.31	5.41	1	8	3	0	2	0	7	1	1	0	6	3	4	0	42	1	50	2	2	11	0	0	0	87	0	0	3	0	0	4	0	0	0	2	13	12	0	265	175
11-5,94	98.44	5.58	6	23	1	0	0	0	4	0	3	0	3	2	4	0	56	4	50	10	0	11	0	0	0	33	0	0	2	0	9	5	0	0	0	0	20	17	0	263	165

Table 3. Planktic foraminifer census data, DSDP Hole 396A.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia crassaformis*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	Other	Benthics	Total planktics	Fragments
8-6,71	69.37	2.95	0	0	5	1	8	9	8	3	121	85	45	1	1	0	0	0	0	13	7	4	0	0	5	6	316	75
8-6,126	69.92	2.97	0	0	1	0	8	6	12	0	130	93	54	1	1	0	0	0	0	0	0	5	0	0	3	3	314	100
9-5,79	77.20	3.06	0	0	0	0	12	2	7	2	91	121	23	1	3	1	1	0	3	4	5	6	2	0	2	0	286	49
9-5,131	77.72	3.11	1	0	2	0	12	7	5	5	131	78	57	0	0	0	0	0	0	7	6	5	0	1	0	2	317	55
10-1,133	80.97	3.15	0	6	1	0	4	5	6	0	88	125	48	1	1	1	0	3	0	2	2	6	1	2	1	3	303	76
10-2,41	81.55	3.20	0	2	5	0	10	7	8	6	93	111	41	1	1	0	0	0	2	0	6	4	0	1	3	2	301	100
10-2,121	82.35	3.21	0	3	0	0	2	8	8	5	107	109	59	0	1	0	0	0	0	7	5	7	0	0	5	1	326	100
10-3,41	83.05	3.26	1	5	1	0	1	5	7	4	110	105	48	1	1	2	0	3	0	8	6	5	0	1	2	2	316	185
10-3,136	84.00	3.30	0	0	3	0	3	4	9	6	100	114	54	1	1	0	0	0	3	0	8	3	1	0	2	5	312	69
10-4,41	84.55	3.31	0	1	8	0	1	6	12	3	125	98	57	0	0	0	0	0	0	2	5	4	0	5	1	4	328	75
10-4,111	85.25	3.34	0	0	7	2	5	1	3	3	121	101	29	1	4	3	0	5	0	3	4	9	0	1	0	8	302	45
10-5,51	86.15	3.40	1	2	4	0	0	5	5	2	109	105	53	0	1	0	0	0	1	6	3	5	0	3	0	5	305	40
10-5,111	86.75	3.51	0	8	1	0	2	11	6	1	127	87	35	1	1	0	0	0	0	19	0	4	0	1	1	3	305	75
10-6,71	87.85	3.59	0	16	0	0	8	2	4	7	119	96	46	1	1	0	0	0	5	0	2	4	0	4	2	2	317	154

Table 4. Planktic foraminifer census data, DSDP Hole 410.

SAMPLE	DEPTH	AGE	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Neogloboquadrina acostaensis*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina pachyderma (d)*	"dupac"	*Orbulina universa*	*Turborotalita quinqueloba*	Other	Benthics	Total planktics	Fragments
14-2,134	124.3	2.58	61	2	26	0	16	9	77	0	5	29	0	0	53	12	5	5	12	9	5	3	5	3	334	17
14-3,101	125.5	2.61	38	1	18	0	11	2	39	0	4	36	1	0	17	13	15	81	12	15	3	7	1	6	314	23
14-4,31	126.3	2.63	22	0	11	0	5	0	32	0	1	16	1	0	37	9	43	86	34	39	3	3	6	6	348	18
14-5,87	128.4	2.69	51	1	9	0	13	7	60	0	6	21	5	0	11	13	49	11	40	47	6	1	6	2	357	12
15-1,14	131.1	2.76	51	2	3	0	19	5	19	2	9	8	11	3	38	15	48	6	34	51	2	6	6	3	338	33
15-2,19	132.7	2.80	45	0	20	0	15	1	23	0	2	15	11	0	89	4	32	20	21	23	5	4	7	4	337	39
15-4,68	136.2	2.89	48	1	23	2	18	1	26	0	7	4	12	0	51	19	19	4	26	28	1	4	1	4	295	42
15-5,11	137.1	2.91	68	1	33	0	16	2	22	0	12	2	12	1	53	22	21	2	28	25	1	2	3	3	326	26
15-6,26	138.8	2.95	66	0	32	0	21	1	18	0	8	0	8	0	34	18	21	0	16	24	1	0	4	0	272	23
16-2,41	142.4	3.06	25	0	19	0	22	0	22	0	2	29	0	0	53	7	43	10	27	29	3	4	4	2	299	25
16-4,97	146.0	3.16	35	0	12	0	12	4	32	1	5	4	4	1	47	15	41	7	31	45	0	2	3	3	301	35
16-5,25	146.8	3.18	44	1	10	0	19	2	22	0	4	11	6	0	49	27	35	9	42	51	2	5	12	7	351	43

Table 5. Planktic foraminifer census data, DSDP Hole 502A.

SAMPLE	DEPTH	AGE	Candeina nitida	Dentoglobigerina altispira	Globigerina bulloides	Globigerina conglomerata	Globigerina decoraperta	Globigerina falconensis	Globigerina inflata	Globigerina praebulloides	Globigerina pseudobulloides	Globigerina sp. 1	Globigerina woodi	Globigerinella aequilateralis	Globigerinita glutinata	Globigerinoides conglobatus	Globigerinoides obliquus	Globigerinoides ruber	Globigerinoides sacculifer	Globigerinoides spp.	Globorotalia crassaformis	Globorotalia hirsuta	Globorotalia menardii	Globorotalia menardii	Globorotalia pumilio	Globorotalia puncticulata	Globorotalia scitula	Globorotalia spp.	Globorotalia tumida	Globorotaloides hexagona	Neogloboquadrina acostaensis	Neogloboquadrina atlantica (d)	Neogloboquadrina humerosa	Neogloboquadrina pachyderma (d)	Neogloboquadrina pachyderma (s)	Neogloboquadrina spp.	"dupex"	Orbulina spp.	Pulleniatina obliquiloculata	Sphaeroidinellopsis spp.	Turborotalia quinqueloba	Other	Benthics	Total planktics	Fragments
19 - 1 , 19.5	72.21	2.875	0	10	3	0	1	0	1	2	3	0	20	1	12	1	22	36	59	4	1	0	0	30	0	1	2	0	0	1	12	0	59	1	0	0	2	8	0	3	0	1	3	296	250
19 - 1 , 49.5	72.51	2.886	0	0	14	0	3	0	0	1	0	0	14	0	12	3	17	61	24	11	8	0	0	14	0	0	2	0	0	0	52	0	51	2	0	2	6	3	0	4	0	3	6	307	430
19 - 1 , 79.5	72.81	2.898	0	0	11	0	0	0	0	1	4	0	22	1	10	1	19	41	24	6	3	0	0	29	7	0	0	0	0	0	17	0	83	2	0	6	1	8	0	2	0	4	9	302	175
19 - 1 , 111.5	73.13	2.908	0	0	9	0	3	0	0	0	3	0	20	0	31	5	17	53	6	10	0	5	0	23	2	0	1	0	0	0	27	0	91	1	0	7	3	13	0	1	0	1	2	334	271
19 - 1 , 139.5	73.41	2.918	0	11	8	0	2	0	3	1	2	0	79	0	27	0	14	53	32	7	1	3	0	16	1	0	0	0	0	0	15	0	33	0	0	4	2	4	0	1	0	3	3	320	176
19 - 2 , 19.5	73.71	2.929	0	4	8	0	4	1	2	1	0	0	40	1	12	0	15	42	41	8	4	2	0	25	0	0	1	0	0	0	21	0	78	0	0	5	7	3	0	4	0	0	5	329	339
19 - 2 , 49.5	74.01	2.941	0	6	8	0	2	0	1	0	2	0	27	1	14	0	16	25	11	6	1	10	0	47	2	1	0	0	0	0	33	0	68	0	0	10	5	7	0	4	0	0	10	307	417
19 - 2 , 79.5	74.31	2.953	0	18	2	1	1	0	0	2	0	0	16	1	27	2	18	23	46	6	8	0	0	55	2	0	3	0	0	6	15	0	68	0	0	4	9	4	0	5	0	1	5	341	181
19 - 2 , 111.5	74.83	2.965	0	6	5	1	2	0	1	0	0	0	32	0	21	0	12	42	18	2	5	0	0	25	6	0	2	0	0	0	44	0	39	2	0	25	15	3	0	0	0	1	20	309	213
19 - 2 , 139.5	74.91	2.977	0	10	7	0	3	0	0	5	0	0	32	2	21	0	18	29	90	5	6	0	0	16	0	0	0	0	0	2	32	0	25	0	0	0	8	9	0	4	0	2	6	324	652
19 - 3 , 19.5	75.23	2.989	0	28	19	0	2	0	0	1	4	0	40	3	33	2	13	45	32	1	7	0	0	14	2	0	1	0	0	2	16	0	18	0	0	9	3	6	0	5	0	1	4	307	175
19 - 3 , 49.6	75.53	2.997	0	39	13	0	3	10	0	0	2	0	25	2	34	0	22	30	6	3	0	9	0	27	8	0	1	0	0	0	48	0	33	0	0	13	10	5	1	8	0	2	8	354	113
19 - 3 , 79.6	75.83	3.004	0	34	15	0	8	3	0	2	0	0	27	3	42	2	24	41	64	2	0	3	0	16	1	0	3	0	0	1	22	0	0	0	0	0	5	6	0	5	0	3	8	334	292
19 - 3 , 95.5	75.99	3.008	0	27	17	0	6	1	0	1	1	0	40	0	32	2	22	24	28	13	0	9	0	17	1	0	2	0	0	0	56	0	14	0	0	10	6	4	0	4	0	6	7	343	300
20 - 1 , 20.6	76.74	3.027	0	15	31	1	0	1	1	3	1	0	32	1	13	0	30	28	52	1	2	7	0	5	6	0	1	0	0	0	34	0	5	0	0	12	9	6	0	24	0	3	9	324	318
20 - 1 , 50.5	77.04	3.034	0	31	31	3	0	1	0	1	0	1	40	0	29	2	28	34	48	7	0	0	0	19	8	0	2	5	0	3	13	0	14	0	0	16	6	9	0	19	0	7	32	375	302
20 - 1 , 80.5	77.34	3.042	0	25	23	2	1	3	0	2	0	0	43	0	22	8	23	43	32	4	0	4	0	33	3	0	0	0	0	5	1	0	12	0	0	12	1	9	2	0	0	2	10	315	268
20 - 1 , 110.5	77.64	3.049	0	12	28	0	2	6	2	0	2	0	23	4	26	0	21	46	30	3	0	5	0	36	12	0	0	0	0	8	20	0	8	0	0	17	1	7	0	0	0	2	17	319	263
20 - 1 , 140.5	77.94	3.058	0	14	44	6	1	1	0	0	3	0	14	0	24	8	32	21	38	3	17	2	0	28	2	0	0	0	0	2	19	0	35	0	0	13	8	9	0	0	0	4	12	348	358
20 - 2 , 20.5	78.26	3.084	0	12	28	1	0	3	0	2	0	0	7	0	28	4	21	14	27	6	1	25	0	22	4	0	2	0	0	0	27	0	54	1	0	8	6	18	0	0	0	2	7	321	532
20 - 2 , 50.5	78.58	3.072	0	21	31	1	0	0	0	1	2	0	14	3	26	2	12	24	30	8	1	14	0	18	8	0	0	0	0	3	39	0	49	0	0	4	1	4	0	0	0	5	8	319	397
20 - 2 , 80.5	78.86	3.079	0	12	41	0	0	2	0	0	2	0	22	2	17	5	10	26	51	2	5	14	0	18	1	0	0	0	0	4	11	0	50	0	0	8	6	4	0	0	0	2	11	315	347
20 - 2 , 110.5	79.16	3.093	0	32	28	0	0	0	0	0	0	0	28	4	21	7	8	18	37	4	3	7	0	45	6	0	0	0	0	1	15	0	50	0	0	9	2	15	0	2	0	4	8	344	420
20 - 2 , 140.5	79.46	3.108	0	7	8	0	0	0	1	1	0	0	29	1	24	5	39	19	25	5	5	9	0	42	2	0	0	0	0	3	22	0	82	2	0	9	2	8	0	1	0	0	2	329	321
20 - 3 , 20.5	79.77	3.123	0	4	30	0	2	2	0	2	3	0	31	5	35	2	21	48	39	3	4	2	0	18	5	0	1	0	0	0	20	0	42	0	0	6	5	3	0	3	0	2	7	338	286
20 - 3 , 50.5	80.07	3.138	0	7	14	0	2	2	0	0	0	0	30	5	19	6	22	38	40	1	8	11	0	41	7	0	0	0	0	0	10	0	33	0	0	2	0	6	0	11	0	3	3	316	278
20 - 3 , 80.5	80.37	3.153	3	14	40	5	18	1	0	0	11	0	44	3	33	10	5	28	25	5	5	0	0	25	12	0	0	0	0	1	32	0	24	1	0	3	0	9	0	7	0	2	11	366	417
20 - 3 , 110.5	80.87	3.166	2	6	17	0	4	3	0	0	3	0	33	1	29	4	18	15	26	5	2	1	0	29	4	0	1	0	0	0	42	0	31	0	0	5	0	4	0	2	0	1	1	288	231
20 - 3 , 140.5	80.97	3.182	0	0	14	1	8	3	0	0	4	1	44	3	17	3	21	58	44	3	0	0	0	34	2	3	1	0	0	0	10	0	21	0	0	1	0	8	0	13	0	3	3	318	149
21 - 1 , 19.5	81.24	3.191	2	21	20	0	5	0	1	1	0	0	48	6	23	3	21	49	24	2	1	1	0	38	1	0	0	0	0	1	20	0	32	0	0	0	10	10	0	11	0	2	8	355	300
21 - 1 , 50.5	81.55	3.201	0	5	18	0	0	2	0	2	0	0	23	4	40	12	30	17	58	1	0	3	0	38	0	2	0	0	0	1	32	0	43	0	1	0	6	4	0	8	0	1	13	351	256
21 - 1 , 80.5	81.85	3.211	1	7	26	0	0	6	0	1	0	0	24	5	34	1	42	28	22	3	0	8	0	18	4	0	0	0	0	2	38	0	69	0	1	0	12	0	0	7	0	4	15	369	386
21 - 1 , 110.5	82.15	3.221	3	13	22	0	7	2	0	0	6	1	13	2	16	2	50	49	21	9	0	2	0	37	3	1	0	0	0	2	6	0	34	0	0	7	5	5	0	14	0	2	9	334	220
21 - 1 , 140.5	82.45	3.231	0	1	40	0	0	0	0	0	7	0	36	4	17	5	20	24	33	0	1	14	0	26	13	4	2	0	0	0	4	0	68	0	0	6	2	8	1	4	0	1	5	339	230
21 - 2 , 19.5	82.74	3.241	0	0	30	2	0	1	0	0	4	0	46	4	12	2	30	29	61	3	0	8	0	43	2	2	3	0	0	0	1	0	38	0	0	1	3	9	0	3	0	0	16	341	175
21 - 2 , 50.6	83.05	3.251	0	9	24	2	0	2	0	0	3	0	37	5	18	1	14	41	15	3	0	9	0	30	0	1	2	0	0	0	1	0	64	0	0	0	2	8	0	0	0	3	9	294	90
21 - 2 , 80.5	83.55	3.261	0	24	14	1	3	0	0	0	6	1	41	2	17	10	9	46	50	5	0	0	0	49	0	0	0	0	0	6	6	0	40	0	0	6	0	11	0	5	0	4	12	356	240
21 - 2 , 110.2	83.65	3.271	0	13	35	0	5	0	0	1	7	0	33	3	28	0	28	28	2	5	0	5	0	37	2	0	1	0	0	4	13	0	59	0	0	6	4	12	1	5	0	0	15	337	130
21 - 2 , 140.5	83.95	3.281	4	17	18	0	4	3	0	0	1	0	18	2	34	31	19	38	34	4	0	0	0	50	7	0	2	0	0	2	5	0	28	0	0	7	2	14	0	29	0	3	17	374	420
21 - 3 , 19.5	84.24	3.291	1	8	24	0	2	0	1	0	1	0	29	1	38	1	24	44	32	7	4	0	0	0	3	1	1	0	36	4	6	0	60	0	0	0	8	5	0	6	0	1	22	343	305
21 - 3 , 80.5	84.53	3.301	0	29	5	6	0	2	3	0	1	0	27	1	21	6	27	48	120	3	0	0	0	28	3	0	0	0	0	3	8	0	33	0	0	5	3	8	0	6	0	3	8	399	455
21 - 3 , 110.5	84.83	3.311	0	4	34	0	2	3	1	0	6	0	59	0	10	2	25	64	31	5	3	1	0	46	4	5	0	0	0	1	7	0	16	0	0	9	3	7	0	1	0	4	15	353	190
21 - 3 , 140.5	85.13	3.321	1	5	12	0	5	2	3	0	2	0	65	5	23	4	14	42	76	9	2	0	0	0	2	0	3	0	0	4	5	0	15	0	0	16	1	16	0	13	0	2	20	347	395
22 - 1 , 5.5	85.54	3.335	0	10	16	1	0	1	0	2	0	0	2	3	22	0	19	31	55	5	7	0	0	74	0	0	0	0	0	4	12	1	38	0	0	13	6	12	0	2	0	0	9	336	295
22 - 1 , 35.5	85.84	3.345	2	11	17	2	0	2	1	0	0	0	3	1	20	5	16	25	21	1	4	0	0	88	0	0	0	2	0	4	13	0	70	0	0	4	7	3	0	8	0	3	4	313	315
22 - 1 , 65.5	86.14	3.355	3	14	16	0	1	2	0	2	0	0	16	4	22	5	12	54	51	1	0	0	0	57	0	0	2	0	0	3	5	0	42	0	0	0	1	10	0	13	0	1	12	336	530
22 - 1 , 95.5	86.44	3.365	0	11	22	0	1	2	0	0	0	0	4	2	17	1	29	47	52	0	4	0	0	43	0	0	0	0	0	2	13	0	54	0	0	0	2	7	0	0	0	1	4	314	255
22 - 1 , 125.5	86.74	3.375	1	23	14	1	0	0	0	1	0	0	61	2	10	1	43	17	87	0	6	0	0	12	0	1	0	0	0	1	2	0	37	2	8	1	3	6	0	4	0	1	6	317	638
22 - 2 , 5.5	87.05	3.385	0	8	20	0	0	1	0	1	0	0	37	1	14	3	25	40	25	13	4	0	0	21	2	0	1	0	0	2	16	0	43	0	0	0	2	2	0	0	0	3	8	284	198
22 - 2 , 35.5	87.36	3.395	0	7	17	1	3	1	2	0	0	0	34	1	16	3	32	27	37	11	1	0	0	30	1	0	1	0	0	1	17	0	32	0	0	0	0	0	0	3	0	2	9	280	293
22 - 2 , 65.5	87.65	3.404	0	21	26	3	0	1	0	0	0	0	10	5	15	2	52	38	24	1	4	0	0	40	0	0	1	0	0	0	5	0	42	0	0	3	0	4	0	27	0	10	3	334	210
22 - 2 , 110.5	88.10	3.415	2	23	9	1	0	2	0	1	0	0	4	2	13	12	25	6	51	4	2	0	0	42	0	0	0	0	0	0	40	0	54	0	0	2	3	4	0	9	0	1	10	312	348
22 - 3 , 5.5	88.53	3.426	4	47	15	0	0	1	1	0	0	0	16	0	29	2	23	27	26	3	8	0	0	21	2	0	0	0	0	0	25	0	41	0	0	0	5	3	0	11	0	2	13	318	235
22 - 3 , 50.5	88.92	3.435	1	21	17	11	0	0	0	0	0	0	18	2	13	3	35	31	34	4	5	0	0	49	2	0	0	0	0	2	3	0	44	0	0	1	0	8	1	23	0	4	8	332	315
22 - 3 , 95.5	89.35	3.446	1	13	34	9	0	2	2	0	1	0	9	3	23	0	30	27	30	0	1	0	0	32	2	0	1	1	0	0	8	0	74	0	0	20	0	0	0	3	4	5	6	335	155
22 - 3 , 140.5	89.80	3.457	2	12	23	1	0	1	1	0	4	0	1	3	20	1	42	21	40	2	5	0	0	38	1	0	0	0	0	0	8	0	44	0	0	18	3	8	1	2	0	2	7	304	155
23 - 1 , 35.5	90.20	3.467	6	11	17	3	0	2	2	0	5	0	10	1	29	17	40	17	28	8	1	0	0	24	0	0	0	0	0	3	4	0	40	0	0	17	3	10	0	7	0	1	8	304	385
23 - 1 , 65.5	90.50	3.475	2	21	43	4	0	6	3	1	5	2	6	0	26	3	62	0	20	3	6	0	0	15	0	0	0	0	0	3	3	0	65	0	0	13	6	5	0	2	0	2	13	348	215
23 - 1 , 110.5	90.95	3.490	0	24	33	1	0	1	1	0	5	0	19	1	42	1	72	8	5	3	5	0	0	17	2	0	0	0	0	0	13	0	52	0	0	10	4	5	0	3	0	2	18	329	220
23 - 2 , 5.5	91.40	3.457	1	13	32	0	5	1	0	0	0	1	45	9	6	0	48	6	37	0	5	0	0	47	1	0	1	0	0	0	11	0	38	0	0	0	2	5	0	1	0	3	6	316	288
23 - 2 , 50.5	91.85	3.508	3	15	6	2	1	0	2	0	0	0	42	0	9	1	62	4	46	4	1	0	0	26	0	0	0	0	0	3	9	0	20	0	0	0	2	19	0	10	0	3	5	298	358
23 - 2 , 95.5	92.30	3.519	1	17	48	0	1	3	1	0	5	1	27	2	25	3	60	4	11	0	10	0	0	29	0	0	0	0	0	2	4	0	40	0	0	28	5	6	2	1	0	2	7	336	225
23 - 2 , 125.5	92.60	3.527	0	30	25	0	0	0	3	0	2	0	32	5	10	0	47	2	84	5	0	0	0	27	0	0	0	0	0	0	4	0	20	0	0	3	2	19	0	6	0	1	4	326	265
23 - 3 , 5.5	92.91	3.535	1	12	20	0	1	0	1	0	2	0	23	4	9	2	45	3	74	2	3	0	0	25	0	0	0	0	0	0	6	0	25	0	0	10	4	17	0	12	0	2	3	303	220
23 - 3 , 50.5	93.36	3.546	1	12	28	2	0	0	1	2	3	0	31	1	18	12	43	3	22	4	4	0	0	50	1	0	1	0	0	1	5	0	49	0	0	10	5	9	0	17	0	5	9	346	365
23 - 3 , 95.6	93.81	3.657	0	25	17	2	0	2	1	3	4	0	24	4	13	4	76	2	24	6	5	0	0	9	2	0	0	0	0	0	17	0	59	0	0	3	1	13	0	8	0	2	4	326	185
23 - 3 , 140.5	94.26	3.688	1	34	30	4	1	4	3	1	2	0	32	6	28	0	75	2	7	1	12	0	0	0	0	0	0	0	0	0	8	0	28	0	0	23	2	6	0	5	0	4	20	318	305
24 - 1 , 35.5	94.64	3.678	0	16	37	1	5	0	0	0	4	0	42	3	34	0	56	6	34	2	4	0	0	8	0	0	3	0	0	0	15	0	44	0	0	10	4	3	0	4	0	4	13	339	240
24 - 1 , 80.6	95.09	3.689	0	26	27	4	0	0	0	2	0	0	19	0	30	0	55	0	50	0	10	0	4	15	0	0	0	0	0	0	5	0	50	0	0	0	4	10	0	15	0	0	16	326	395
24 - 1 , 125.5	95.54	3.800	0	13	42	0	0	7	4	0	0	0	8	2	35	1	61	5	17	0	5	0	2	9	0	0	1	0	0	0	27	0	73	0	0	0	3	1	0	11	0	0	22	327	253

Table 6. Planktic foraminifer census data, DSDP Hole 541.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina conglomerata*	*Globigerina falconensis*	*Globigerina pseudobesa*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerina decoraperta*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia scitula*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina pachyderma (d)*	"dupac"	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	*Turborotalia quinqueloba*	*Globorotalia spp.*	Other	Benthics	Total planktics	Fragments
13-6-27	113.27	2.330	0	17	1	4	0	9	0	16	0	0	6	26	36	114	8	11	0	6	0	0	1	0	0	0	2	1	2	6	3	7	2	36	0	1	9	17	324	866
14-2-36	116.86	2.400	39	5	1	3	0	1	0	30	2	0	12	3	23	83	27	7	0	0	0	2	11	0	12	0	32	0	3	4	4	2	0	10	1	0	12	3	329	111
14-4-93	120.43	2.469	49	2	0	3	0	0	0	17	3	0	18	2	31	90	20	4	0	0	0	0	4	0	13	0	18	1	2	8	11	1	1	24	1	1	8	0	332	119
14-4-121	120.71	2.501	85	1	2	2	0	0	0	10	1	0	21	3	21	77	26	8	0	0	0	1	3	0	12	0	19	6	2	2	12	2	2	25	2	0	14	1	359	204
14-5-19	121.19	2.519	69	1	0	2	0	0	0	13	0	0	8	2	31	66	17	8	0	0	0	2	2	0	5	0	23	16	1	0	11	2	1	55	1	3	10	1	349	174
14-5-57	121.57	2.531	55	3	1	3	0	0	0	6	0	1	9	8	41	75	12	9	2	0	0	0	6	0	9	0	24	6	2	1	15	3	0	60	0	5	12	0	368	80
14-5-85	121.85	2.544	31	2	0	0	0	0	0	1	0	0	12	6	45	64	33	11	1	0	0	8	2	0	4	0	12	9	1	1	5	2	0	71	0	5	5	2	331	173
14-5-114	122.14	2.557	41	8	0	5	0	1	0	6	0	0	18	5	34	29	8	11	1	7	0	2	1	0	12	0	14	13	5	5	9	1	0	104	0	8	10	3	358	209
14-5-142	122.42	2.571	34	1	0	1	0	1	0	4	0	0	3	6	43	39	24	12	1	0	0	6	2	0	9	0	10	14	0	0	8	2	0	88	0	10	11	3	329	238
14-6-23	122.73	2.583	26	3	0	0	0	0	0	4	0	1	10	5	53	44	26	15	0	1	1	15	3	0	8	0	17	14	0	4	6	1	0	100	0	4	10	3	369	205
14-6-50	123.00	2.595	31	1	0	0	0	0	0	2	0	2	3	10	39	25	41	8	1	1	0	10	2	0	4	0	17	13	1	1	4	9	1	84	1	4	9	3	324	283
14-6-76	123.26	2.609	33	4	0	0	0	0	0	7	0	0	3	25	45	30	30	14	0	0	0	11	6	0	1	0	12	5	0	2	6	9	0	87	0	5	7	10	343	188
14-6-106	123.56	2.622	44	0	0	0	0	0	0	7	0	0	17	22	54	45	40	16	3	1	0	9	1	1	1	0	13	15	0	4	5	9	0	14	0	2	8	1	331	168
14-6-135	123.85	2.635	49	0	0	0	0	0	0	1	0	1	18	25	54	46	34	12	2	1	0	8	7	1	0	0	12	20	0	2	5	12	1	3	0	3	8	9	323	177
14-7-13	124.13	2.647	35	1	0	4	0	0	0	13	0	6	23	31	25	58	52	12	6	0	0	14	1	2	2	1	26	27	2	3	6	0	0	0	0	10	9	5	369	332
14-7-41	124.41	2.660	44	2	0	3	0	0	0	11	0	0	19	33	28	52	26	24	0	0	0	9	1	1	0	0	26	26	3	1	8	4	0	14	0	1	24	0	360	255
15-1-18	124.68	2.680	33	1	1	0	0	0	0	12	0	0	11	26	37	52	35	4	5	0	0	17	0	1	0	0	36	22	1	3	9	9	0	17	0	2	13	3	347	237
15-1-64	125.14	2.700	4	1	0	0	0	0	0	4	0	0	7	41	47	56	53	11	2	0	0	8	1	0	0	0	31	31	0	1	4	7	0	15	0	9	14	4	347	159
15-1-108	125.58	2.731	12	0	0	0	0	9	2	5	0	0	4	44	17	19	85	1	1	0	0	7	1	0	0	0	9	2	4	1	2	34	10	48	0	7	20	74	344	376
15-2-25	126.25	2.742	29	2	0	0	0	0	0	12	0	0	8	30	31	45	72	0	4	0	0	6	0	0	0	0	26	23	2	0	4	0	1	19	0	24	16	2	354	241
15-2-49	126.49	2.760	37	0	0	0	0	2	0	3	0	0	5	32	29	44	55	0	2	0	0	9	9	0	0	0	30	23	0	0	1	5	0	38	0	3	14	6	341	439
15-2-90	126.90	2.780	6	1	0	0	0	1	0	7	0	0	10	28	22	35	64	0	2	1	0	15	7	0	1	0	24	24	1	0	9	3	3	33	2	19	11	6	327	225
15-2-133	127.38	2.800	17	1	0	0	0	0	0	2	0	0	6	21	19	28	78	0	4	0	0	17	7	0	2	0	36	25	1	2	3	2	1	15	0	15	20	8	322	303
15-3-27	127.77	2.821	24	1	0	1	0	2	0	1	0	0	3	40	22	29	83	3	0	1	0	5	5	0	0	0	27	1	3	4	3	18	2	26	0	8	13	42	325	1045
15-3-74	128.24	2.840	12	1	0	0	0	2	5	0	0	0	4	17	16	15	74	0	0	0	0	0	5	0	0	0	28	7	3	2	5	7	0	119	0	4	11	29	337	444
15-3-115	128.65	2.879	29	0	0	0	0	6	2	1	0	0	10	15	33	24	48	0	5	1	0	3	7	0	0	0	50	22	1	0	1	9	0	54	0	6	16	6	343	228
15-4-52	129.52	2.900	12	1	0	0	0	0	3	1	0	0	8	15	10	22	33	0	0	13	0	0	2	0	0	0	22	7	1	2	3	11	0	120	0	0	19	17	305	957
15-4-97	129.97	2.908	52	0	0	0	0	7	1	2	0	0	5	21	16	59	56	4	0	0	0	1	4	0	0	0	39	26	1	2	5	4	0	13	2	17	18	5	355	216
15-4-116	130.16	2.940	30	0	0	0	0	12	0	2	0	0	14	11	22	30	90	8	1	0	0	5	2	0	0	0	23	15	5	1	1	7	1	42	0	4	18	9	344	553
15-5-35	130.85	2.960	10	1	0	0	0	6	2	0	0	0	3	50	53	24	67	2	0	0	0	1	1	0	0	0	18	5	4	1	2	21	2	38	1	0	10	19	322	1110
15-5-81	131.31	3.276	32	0	0	0	0	19	2	1	0	0	20	24	33	41	81	7	3	0	0	0	3	0	0	0	26	13	2	0	1	3	0	25	0	12	8	3	356	193
16-2-127	138.27	3.380	25	0	0	0	7	1	0	2	0	1	12	14	55	16	66	2	0	0	0	7	2	0	0	0	42	17	0	1	2	6	1	60	1	22	13	4	375	303
16-6-75	142.25	3.420	58	1	0	0	0	10	0	7	0	0	8	11	81	5	40	0	0	0	0	0	14	0	0	0	19	15	0	0	0	2	0	39	0	4	17	4	331	341

Table 7. Planktic foraminifer census data, DSDP Hole 546.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina pseudobesa*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerina decoraperta*	*Globigerinella aequilateralis*	*Globegerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia scitula*	*Globorotalia tumida*	*Globorotalia spp.*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	"dupac"	*Neogloboquadrina spp.*	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	Other	Benthics	Total planktics	Fragments
7 3-91	53.41	1.89	0	53	38	2	2	1	1	0	5	9	0	1	37	0	0	0	0	65	1	0	0	0	0	48	4	0	14	0	11	0	0	3	1	295	60
7 4-91	54.91	2.00	0	23	20	1	2	0	2	0	10	39	0	2	27	0	0	25	0	0	0	0	4	0	3	82	21	5	35	0	12	0	1	0	6	314	125
7 5-111	56.61	2.08	0	33	15	0	2	0	21	0	16	39	0	9	54	0	0	3	0	1	0	0	1	0	0	73	1	5	17	0	20	5	0	10	2	325	155
7 6-91	57.91	2.14	0	27	15	2	2	0	36	0	9	34	3	1	31	0	0	20	0	4	0	0	2	0	1	76	6	5	16	0	19	2	0	18	3	329	93
8 1-31	59.31	2.20	0	45	18	1	3	2	17	0	6	55	1	5	64	1	5	12	0	0	0	0	2	0	0	34	5	1	7	0	12	0	1	28	2	325	97
8 1-91	59.91	2.23	0	42	3	0	3	0	17	0	5	52	0	3	67	0	0	8	0	0	0	0	1	0	1	57	4	12	19	8	20	0	0	29	4	351	106
8 2-33	60.88	2.27	0	94	25	1	7	1	15	0	3	39	0	1	25	0	0	41	0	0	0	0	1	0	0	24	4	2	8	7	30	0	0	16	4	344	63
8 2-91	61.41	2.30	0	46	9	0	12	0	11	1	1	61	0	0	26	0	0	35	0	2	0	0	0	0	5	46	3	7	28	4	10	0	0	10	6	317	105
8 3-31	62.31	2.34	0	58	19	0	17	1	14	4	1	44	0	1	56	0	0	24	0	0	2	0	2	0	10	38	9	3	16	6	11	1	0	24	5	361	110
8 3-93	62.93	2.36	0	53	8	0	8	1	39	7	1	37	0	0	60	0	0	1	1	0	0	0	2	0	0	42	7	2	28	9	12	0	0	37	2	355	108
8 4-33	63.85	2.41	0	66	10	2	8	1	21	7	6	61	1	5	46	0	0	10	0	0	0	0	4	0	7	21	6	8	28	12	21	4	0	10	5	365	110
8 4-91	64.41	2.43	0	55	15	1	5	0	23	1	10	44	1	0	24	0	0	53	0	9	0	0	6	0	5	17	1	6	33	10	16	0	0	11	2	346	61
8 5-26	65.26	2.47	0	56	8	1	21	0	9	1	3	24	2	0	25	0	0	38	2	7	0	0	4	0	0	33	4	3	36	9	14	1	0	14	2	315	81
8 6-33	66.85	2.54	0	54	5	0	0	0	33	0	1	24	0	3	25	9	0	12	0	24	0	0	1	1	3	39	1	3	42	5	14	0	6	16	4	321	80
8 6-91	67.41	2.57	0	33	4	0	4	0	29	0	9	22	0	6	35	15	0	13	0	29	0	0	0	0	2	34	8	0	43	8	20	1	0	7	2	322	100
8 7-26	68.26	2.61	0	63	6	0	9	0	25	0	3	30	0	8	36	17	0	23	1	9	0	0	1	0	4	14	1	2	24	2	8	2	0	10	1	298	110
9 1-31	68.81	2.63	0	51	9	0	2	1	23	2	1	27	1	4	23	40	0	28	1	12	0	0	6	0	5	27	3	5	33	4	6	0	0	5	0	319	93
9 1-91	69.41	2.66	0	48	7	0	3	0	23	1	1	21	1	11	33	34	0	32	0	3	0	0	3	0	5	24	7	2	35	3	7	1	0	9	3	314	72
9 2-36	70.36	2.70	0	37	3	0	7	0	30	1	4	56	0	3	30	25	0	53	0	21	0	0	2	0	4	30	9	1	1	0	3	2	0	11	1	333	77
9 2-101	71.01	2.73	0	47	7	0	2	0	22	0	3	39	0	4	40	5	0	46	2	56	0	0	2	0	1	10	0	0	19	2	21	0	0	9	1	337	84
9 3-31	71.81	2.77	0	44	7	0	5	0	24	0	9	40	0	11	27	12	0	42	0	59	0	0	7	0	2	8	0	3	19	2	13	0	0	7	2	341	81
9 3-93	72.43	2.80	0	62	5	0	1	0	13	0	3	36	0	5	44	13	0	37	0	50	0	0	2	0	0	3	0	5	29	2	6	0	0	12	2	328	93
9 4-33	73.33	2.84	1	33	9	0	4	0	12	0	2	44	0	3	31	26	0	30	0	49	0	0	0	0	1	10	3	7	19	5	11	0	0	10	3	311	180
9 4-91	73.91	2.86	0	44	9	0	4	0	23	0	1	24	0	11	29	28	0	49	0	38	0	0	1	0	3	18	2	1	11	0	19	3	0	6	4	324	108
9 5-31	74.81	2.90	0	33	5	0	4	0	19	1	1	38	0	6	12	20	0	57	0	50	0	1	1	0	0	12	0	0	28	3	9	0	0	13	7	313	113
9 5-91	75.41	2.93	0	49	11	0	8	0	26	1	4	54	0	13	30	13	0	27	0	42	0	0	1	0	0	14	2	2	27	2	2	1	0	8	0	337	100
9 6-33	76.33	2.97	2	76	7	0	2	0	26	0	10	70	0	4	17	8	0	28	0	13	0	16	2	1	4	18	0	3	35	3	8	1	6	11	0	371	68
9 6-91	76.91	3.00	0	14	3	0	3	1	8	0	5	37	1	5	21	5	0	48	0	85	0	0	3	0	0	13	1	4	26	3	12	5	1	12	23	316	120
10 1-36	78.36	3.07	1	26	6	0	3	0	31	1	0	13	0	11	37	3	0	44	0	58	0	0	1	0	0	6	1	3	27	1	9	0	21	14	3	317	110
10 1-91	78.91	3.09	0	56	9	0	7	0	34	0	0	11	0	12	19	4	0	41	1	60	0	1	2	0	1	10	1	2	24	1	3	4	8	5	2	316	101
10 2-81	80.31	3.15	11	30	9	0	0	0	25	0	0	13	0	13	36	23	0	38	0	45	0	0	6	0	4	3	3	1	24	4	1	1	15	8	3	313	137
10 3-76	81.76	3.22	9	42	3	0	2	0	29	0	0	22	0	24	32	32	0	46	0	42	0	0	2	0	1	17	1	3	18	5	3	2	10	10	1	355	130
10 4 76	83.26	3.29	1	38	4	0	1	0	15	0	2	19	0	16	22	12	0	55	0	56	0	0	10	0	1	12	0	6	25	3	3	7	5	3	13	316	100
10 5-76	84.76	3.36	0	28	1	0	4	0	13	0	2	16	0	8	16	18	0	43	0	52	0	5	3	0	2	30	0	7	52	4	1	1	5	7	6	318	103

Table 8. Planktic foraminifer percent count, DSDP Hole 548.

SAMPLE	DEPTH	AGE	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina inciea*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Neogloboquadrina acostaensis (d)*	*Neogloboquadrina acostaensis (s)*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	"dupac"	*Orbulina universa*	*Turborotalia quinqueloba*
16 - 4 , 82	114	1.93	9.04	2.39	1.06	3.72	0.00	1.86	0.00	0.00	0.00	3.46	0.27	0.00	50.27	1.33	25.90	0.00	0.53	0.27	0.00
16 - 4 , 120	114.2	1.940	9.03	1.91	3.81	0.00	0.00	2.03	0.00	0.00	0.00	2.71	0.00	0.00	51.24	1.58	24.36	0.23	1.35	1.81	0.23
16 - 5 , 17	114.7	1.950	7.70	1.04	2.08	0.28	0.00	2.87	0.00	0.00	0.00	0.81	0.00	0.00	57.31	1.04	22.85	0.13	0.85	1.70	1.44
16 - 5 , 80	115.3	1.964	1.59	0.00	0.43	0.87	0.29	2.16	0.43	0.00	0.00	0.43	0.00	0.00	65.22	0.87	22.37	0.43	1.44	2.89	0.56
16 - 5 , 122	115.7	1.973	9.30	2.28	2.61	0.65	0.82	3.43	4.73	0.16	0.16	1.14	0.16	0.00	43.88	0.49	25.94	0.16	0.93	2.94	0.16
16 - 6 , 23	116.2	1.985	7.46	1.71	1.92	0.21	0.64	3.20	1.71	0.00	0.00	0.64	0.00	0.00	46.06	1.07	30.70	0.21	0.85	3.62	0.00
17 - 1 , 36	118.4	2.032	4.06	0.88	1.94	2.29	0.53	5.11	6.17	0.35	0.00	0.88	0.00	0.00	44.97	2.29	24.87	0.00	2.12	3.17	0.35
17 - 1 , 80	118.8	2.042	0.18	0.00	0.99	4.97	0.36	7.28	2.31	0.16	0.18	1.95	0.53	0.00	42.81	2.13	29.66	0.18	1.95	2.31	2.13
17 - 1 , 120	119.2	2.051	0.41	0.00	0.21	1.03	0.21	4.54	4.12	0.00	0.41	2.06	0.00	0.00	33.61	30.31	16.49	0.41	1.65	1.03	3.51
17 - 2 , 16	119.7	2.061	1.04	0.00	1.04	0.00	0.00	2.22	0.74	0.00	0.44	0.44	0.00	0.00	12.15	76.89	3.11	0.44	0.00	0.74	0.74
17 - 2 , 79	120.3	2.075	2.40	0.00	1.68	0.00	0.00	2.16	0.00	0.00	0.46	0.72	0.00	0.00	27.64	47.36	14.90	0.24	1.92	0.48	0.00
17 - 2 , 122	120.7	2.084	0.48	0.00	0.96	0.00	0.00	2.66	0.86	0.00	1.92	0.48	0.00	0.00	20.18	61.06	6.73	0.96	0.46	2.40	0.46
17 - 3 , 16	121.2	2.094	2.74	0.00	0.59	0.39	0.00	3.52	0.00	0.00	4.31	0.39	0.39	0.00	34.64	9.78	34.83	0.38	2.15	5.68	0.20
17 - 3 , 79	121.8	2.108	2.21	0.55	0.92	0.92	0.16	4.43	0.37	0.00	16.42	2.95	2.40	0.00	30.23	7.75	27.12	0.18	1.85	0.37	1.11
17 - 3 , 121	122.2	2.117	5.33	0.55	3.51	0.55	1.42	8.22	1.85	0.00	17.56	2.59	0.00	0.00	9.98	37.34	6.10	0.00	1.29	3.14	0.37
17 - 4 , 20	122.7	2.128	3.72	0.00	0.47	0.00	0.00	6.68	0.00	0.00	1.86	2.33	0.47	0.00	14.42	60.00	7.44	0.47	1.40	0.47	0.00
17 - 4 , 75	123.3	2.140	3.42	1.51	3.99	0.18	0.00	1.80	0.00	0.00	21.86	0.19	0.19	0.00	9.13	48.86	5.70	0.19	1.52	0.76	0.57
17 - 4 , 120	123.7	2.150	17.48	2.75	8.64	1.18	0.00	4.81	0.20	0.00	9.43	1.77	0.39	0.20	15.32	8.08	24.17	0.00	3.34	1.77	0.20
17 - 5 , 18	124.2	2.161	2.80	0.52	0.00	0.00	0.00	2.08	0.00	0.00	2.60	2.06	0.00	0.00	0.52	28.02	0.00	1.04	0.00	0.52	0.00
17 - 5 , 59	124.6	2.170	6.88	1.42	3.04	0.10	0.00	3.10	0.40	0.00	1.01	0.20	0.40	0.00	14.78	47.17	13.77	0.40	1.01	1.21	0.00
17 - 5 , 99	125.0	2.179	10.81	4.56	9.96	0.33	0.33	6.68	1.14	0.00	6.84	0.00	1.95	0.00	14.99	15.34	25.73	0.16	0.81	0.46	0.49
17 - 5 , 141	125.4	2.188	3.02	2.45	3.40	2.26	0.19	8.86	2.82	0.57	18.91	4.52	8.30	0.00	6.42	13.02	21.51	0.38	0.18	0.94	1.51
18 - 1 , 36	128.4	2.209	0.99	0.46	0.16	1.44	0.32	4.15	15.47	0.48	0.00	2.23	0.32	0.00	43.70	10.53	15.63	0.32	0.32	2.71	0.80
18 - 1 , 75	126.8	2.216	1.17	0.00	1.56	0.00	0.00	4.87	0.39	0.00	0.76	0.78	0.00	0.00	13.62	65.78	8.58	0.39	0.39	0.00	1.95
18 - 1 , 121	127.2	2.228	1.46	0.99	3.26	0.00	0.00	4.15	0.59	0.00	0.30	0.59	0.59	0.00	16.91	52.82	15.62	0.30	0.89	0.30	0.30
18 - 2 , 15	127.7	2.236	0.24	0.00	0.24	0.48	0.00	6.73	0.00	0.00	1.20	1.92	0.72	0.00	17.55	62.26	6.73	0.00	0.24	1.44	0.24
18 - 2 , 59	128.1	2.246	2.52	0.42	3.35	0.21	0.00	7.55	0.00	0.00	5.87	0.63	1.66	0.00	42.77	2.10	27.25	0.42	1.89	2.73	0.63
18 - 2 , 103	126.5	2.258	1.93	0.00	1.83	0.00	0.00	9.26	0.92	0.00	2.75	1.36	0.00	0.00	11.01	59.26	13.30	0.46	0.00	0.00	0.00
18 - 3 , 18	129.2	2.272	4.82	1.05	3.14	1.05	1.26	5.24	0.84	0.00	18.66	3.77	0.63	0.00	20.75	28.51	6.92	0.42	0.63	1.25	1.05
18 - 3 , 65	129.7	2.263	2.65	0.00	1.18	0.00	0.29	13.24	0.00	0.00	10.68	2.95	0.00	0.00	16.62	33.24	13.53	0.00	0.00	2.65	0.59
18 - 3 , 105	130.1	2.291	0.00	2.11	1.41	0.70	0.00	11.27	0.00	0.00	7.75	1.41	0.00	0.00	16.20	45.07	13.38	0.00	0.00	0.00	0.70
18 - 3 , 141	130.4	2.299	7.83	3.39	4.24	0.00	0.00	2.97	0.42	0.00	13.98	2.97	1.27	0.00	22.88	22.03	12.71	0.65	1.69	2.12	0.85
19 - 1 , 59	131.6	2.326	7.88	12.86	4.56	2.49	0.00	3.73	2.07	0.41	14.11	3.32	2.90	0.00	6.64	8.30	24.48	0.41	1.24	1.66	2.90
19 - 1 , 103	132.0	2.335	3.91	1.42	2.14	1.42	0.36	6.76	2.49	0.00	3.56	1.07	2.85	0.00	11.74	18.86	35.94	0.00	4.27	0.71	2.49
19 - 1 , 141	132.4	2.344	5.59	1.95	2.26	0.41	0.62	5.76	1.44	0.21	2.06	0.92	1.03	0.00	16.05	17.08	37.45	0.82	2.98	2.86	0.82
19 - 2 , 36	132.9	2.354	1.67	0.48	1.67	0.95	1.67	5.25	1.81	0.00	25.06	0.24	0.95	0.00	6.44	26.97	19.33	0.48	1.43	3.10	2.39
19 - 2 , 60	133.3	2.364	1.15	1.54	1.15	3.26	0.77	8.64	10.56	0.96	4.99	0.98	2.30	0.00	7.68	27.83	23.99	1.15	0.00	2.99	0.19
19 - 2 , 121	133.7	2.373	2.02	1.77	2.02	5.05	1.01	6.82	3.54	0.76	12.88	0.25	3.28	0.00	11.11	18.44	25.00	2.02	0.00	2.53	0.51
19 - 3 , 16	134.2	2.383	0.62	0.62	0.62	1.85	0.41	4.32	2.47	0.00	11.73	0.82	5.56	0.21	12.96	10.08	45.47	0.21	0.82	0.41	0.82
19 - 3 , 60	134.6	2.392	0.85	1.41	0.29	0.00	0.56	2.54	0.28	0.00	6.50	0.00	11.58	0.00	11.02	31.92	27.97	1.69	0.00	1.98	1.41
19 - 3 , 97	135.0	2.401	0.85	0.21	0.85	0.64	0.85	4.45	0.00	0.21	2.12	0.64	6.14	0.21	10.38	15.04	50.21	1.69	0.00	2.97	2.54
19 - 3 , 140	135.4	2.410	2.87	3.50	0.32	0.32	0.00	5.10	1.59	0.32	0.64	1.27	9.55	0.32	9.97	50.32	11.46	0.00	0.00	1.27	1.27
19 - 4 , 25	135.8	2.418	6.30	3.81	4.82	1.52	1.02	5.33	5.56	0.76	12.94	1.02	9.90	0.25	2.29	38.83	2.54	0.25	0.00	1.78	0.76
20 - 1 , 17	136.2	2.427	8.52	4.48	5.04	0.64	0.00	5.86	1.96	0.00	11.76	1.40	3.36	0.00	7.00	28.85	9.52	0.29	5.60	2.52	1.96
20 - 1 , 59	136.6	2.437	6.90	3.25	4.87	1.01	0.41	2.64	0.61	0.00	6.11	0.00	6.90	0.00	19.68	12.99	20.89	0.20	5.68	4.67	1.22
20 - 1 , 97	137.0	2.445	4.21	3.86	5.81	3.18	0.70	5.26	3.51	0.00	15.79	0.35	7.02	0.00	19.85	5.61	16.25	0.35	2.11	2.46	2.11
20 - 1 , 141	137.4	2.455	7.29	5.26	6.68	3.44	0.31	6.48	7.09	0.61	29.24	1.01	5.26	0.00	4.25	3.24	17.61	0.20	0.81	0.81	0.81
20 - 2 , 37	137.9	2.465	6.97	2.88	8.27	1.19	0.30	5.07	3.58	0.30	24.48	0.30	21.79	0.30	8.06	5.37	8.08	0.00	0.80	2.69	1.49
20 - 2 , 80	138.3	2.475	6.40	4.75	6.82	0.41	0.83	5.17	6.20	0.62	31.40	0.00	8.68	0.00	3.93	14.46	3.31	0.62	0.62	4.34	1.24
20 - 2 , 120	138.7	2.483	6.56	1.54	3.29	0.66	0.00	3.73	0.00	0.00	19.06	1.32	18.86	0.44	7.46	23.46	9.43	0.44	1.54	1.54	0.66
20 - 3 , 18	139.2	2.494	4.73	2.55	2.18	0.73	0.00	2.16	0.36	0.00	28.73	0.00	2.91	0.00	1.82	50.18	1.82	0.36	0.36	1.09	0.00
20 - 3 , 60	139.6	2.503	8.88	0.86	0.29	2.29	0.57	4.56	0.00	0.00	16.62	0.86	9.74	0.29	4.87	41.26	6.02	0.57	1.72	0.00	0.57
20 - 3 , 94	139.9	2.511	11.33	1.48	3.98	0.00	0.00	5.45	0.00	0.00	7.43	0.25	15.35	0.00	5.45	36.88	7.92	0.25	0.99	2.48	0.50
20 - 3 , 141	140.4	2.521	8.77	2.05	0.88	0.88	0.29	4.09	0.86	0.00	8.16	0.00	19.30	0.00	10.53	31.87	9.65	0.88	0.58	0.56	0.58
21 - 1 , 67	141.7	2.549	9.35	3.48	2.17	0.87	0.65	8.04	1.30	0.00	3.70	0.43	8.48	0.00	33.70	17.39	7.39	0.22	0.00	2.93	0.00
21 - 1 , 109	142.1	2.559	10.77	6.35	7.50	8.27	1.73	5.58	3.09	0.58	9.62	0.36	3.27	0.00	6.95	20.77	10.19	0.77	0.00	0.96	1.35
21 - 2 , 20	142.7	2.572	10.16	9.89	7.62	3.17	3.17	7.62	0.63	0.00	3.81	0.00	4.44	0.00	7.62	27.94	5.71	0.32	0.32	5.71	2.86
21 - 2 , 63	143.1	2.582	8.90	2.96	2.89	1.34	0.81	7.90	1.06	0.54	6.72	0.54	17.20	0.27	9.41	1.86	31.72	0.81	2.42	1.34	1.88
21 - 2 , 96	143.5	2.589	7.22	9.17	3.33	1.94	0.56	11.84	2.78	0.56	9.72	1.94	16.38	0.28	8.08	2.50	15.00	0.28	2.50	4.17	1.67
21 - 2 , 140	143.9	2.599	9.81	3.89	9.85	3.20	0.49	10.34	0.00	0.49	13.79	5.42	11.56	0.25	13.79	2.71	9.31	0.25	0.00	2.96	1.97
21 - 3 , 20	144.2	2.606	4.90	0.00	1.40	4.20	0.35	16.16	0.35	0.70	7.34	2.80	20.28	0.00	11.54	3.50	18.16	0.35	0.00	3.15	2.80
21 - 3 , 59	144.6	2.614	4.39	1.95	2.44	0.98	0.49	7.80	0.00	0.00	4.39	1.95	37.56	0.96	13.17	10.24	12.66	0.00	0.00	0.96	0.00
21 - 3 , 104	145.0	2.624	3.39	2.71	2.03	0.69	0.34	5.06	0.00	0.00	1.69	0.34	19.32	0.00	17.29	1.02	40.68	0.34	1.36	3.39	0.34
22 - 1 , 100	147.0	2.666	7.22	3.84	3.84	1.35	1.58	6.32	0.23	0.23	4.97	1.56	6.55	0.23	32.05	2.26	28.64	0.00	0.00	0.66	0.45
22 - 2 , 25	147.8	2.684	15.28	13.99	11.11	4.17	1.38	8.26	2.78	0.00	7.67	3.70	3.70	0.00	4.17	10.85	6.02	0.00	0.00	3.24	2.78
22 - 2 , 41	147.9	2.688	13.88	7.97	4.88	10.03	1.54	10.90	0.51	1.80	5.14	2.57	6.17	0.00	3.86	9.77	19.02	1.03	0.00	0.00	1.03
22 - 2 , 125	148.8	2.707	7.89	5.71	3.90	1.09	0.27	3.26	3.80	0.00	9.24	1.09	6.52	0.27	24.46	13.96	14.97	0.54	0.00	1.36	2.17
22 - 2 , 148	149.0	2.712	7.38	4.93	3.52	2.45	0.70	6.34	2.82	0.00	39.79	0.35	5.88	0.00	4.93	14.44	3.87	0.00	0.00	1.41	1.06
22 - 3 , 0	149.0	2.712	13.33	6.33	6.33	2.00	0.33	3.00	2.67	0.67	7.00	1.00	8.00	0.00	14.97	14.97	13.00	0.33	0.00	1.67	5.00
22 - 3 , 50	149.5	2.723	3.77	4.00	3.39	9.54	1.65	14.15	4.00	1.65	14.15	3.38	1.23	0.00	10.77	15.38	8.46	0.00	0.00	2.15	0.92
22 - 3 , 98	150.0	2.734	5.45	4.94	3.80	5.19	0.26	5.16	0.00	0.00	24.98	1.62	8.31	0.00	23.84	7.01	8.57	0.26	0.00	0.23	0.52
22 - 3 , 116	150.2	2.736	0.45	3.60	3.30	10.81	0.00	12.61	4.05	2.70	33.78	1.35	7.21	0.00	8.11	7.21	1.30	0.45	0.00	0.80	1.35
23 - 1 , 75	151.8	2.773	2.74	2.47	4.83	7.67	1.64	10.14	0.82	0.00	38.18	2.47	14.25	0.55	8.49	4.36	1.92	0.00	0.00	1.10	0.27
23 - 1 , 124	152.2	2.784	4.65	3.71	2.47	2.68	2.06	9.28	1.86	0.41	38.97	1.44	8.25	0.00	3.30	0.32	17.94	0.21	1.03	0.00	0.82

Table 8 (cont). Planktic foraminifer percent count, DSDP Hole 848.

SAMPLE	DEPTH	AGE	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Neogloboquadrina acostaensis (d)*	*Neogloboquadrina acostaensis (s)*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	"dupac"	*Orbulina universa*	*Turborotalita quinqueloba*
23 - 1 , 146	152.5	2.789	3.94	2.25	2.25	5.35	0.00	4.79	3.38	0.00	13.52	1.97	23.10	0.00	20.56	7.89	9.90	0.28	0.00	0.28	1.13
23 - 2 , 24	152.7	2.795	5.08	1.98	1.89	1.69	1.41	5.08	0.85	0.00	60.45	0.85	0.00	0.00	5.65	14.12	0.00	0.00	0.00	1.13	0.00
23 - 2 , 101	153.5	2.812	3.32	1.53	4.09	4.86	0.00	8.18	2.30	0.26	10.23	0.00	21.89	0.26	13.55	13.81	11.51	0.77	0.00	0.00	3.32
23 - 2 , 148	154.0	2.823	4.92	1.14	1.14	2.27	0.00	9.08	8.33	0.38	37.88	1.89	2.65	0.00	6.82	20.45	0.00	0.00	0.00	1.89	1.14
23 - 3 , 25	154.3	2.829	6.61	1.39	1.04	2.78	0.35	9.22	1.74	0.52	23.13	1.74	24.35	0.52	10.09	4.00	8.70	0.35	0.00	0.17	3.30
23 - 3 , 97	155.0	2.845	4.30	2.32	2.32	2.98	2.32	11.82	1.32	0.00	36.75	0.33	10.29	0.00	6.95	6.29	5.96	0.00	0.66	1.66	3.64
23 - 3 , 125	155.3	2.851	4.75	0.34	1.02	0.00	0.38	5.76	0.00	0.00	36.61	0.68	29.49	0.00	2.37	3.73	6.44	0.00	0.88	1.02	6.44
24 - 1 , 100	157.0	2.890	12.74	5.66	4.40	2.99	0.33	5.97	0.63	0.00	5.35	3.77	32.08	0.63	13.84	2.20	5.50	0.16	0.00	1.89	1.57
24 - 1 , 146	157.5	2.900	9.61	4.37	2.18	0.87	1.75	4.37	1.75	0.00	23.58	0.44	33.19	0.44	6.99	4.37	2.18	0.00	0.00	2.62	1.31
24 - 2 , 50	158.0	2.912	1.94	1.94	1.08	1.51	0.43	7.33	2.59	0.00	28.02	1.72	38.38	0.43	6.03	1.72	2.59	0.43	0.22	2.59	1.08
24 - 2 , 102	158.5	2.924	3.53	5.41	1.18	10.35	1.18	8.94	0.84	0.00	29.24	3.29	22.35	0.24	1.35	0.47	8.71	0.24	0.00	0.00	3.29
24 - 3 , 0	159.0	2.934	3.75	4.02	1.88	3.75	0.80	8.38	11.26	0.00	24.93	1.88	18.82	0.54	1.34	2.14	15.01	0.27	0.00	0.27	2.14
24 - 3 , 45	159.5	2.944	5.70	1.80	1.80	6.88	0.71	9.98	13.30	0.24	0.00	0.95	20.80	0.48	3.08	0.71	23.52	0.24	0.00	1.43	8.08
24 - 3 , 97	160.0	2.956	6.72	3.64	3.64	6.16	0.28	10.08	3.36	0.56	26.33	0.84	21.57	0.94	5.32	3.92	6.16	0.00	0.00	0.00	0.56
25 - 1 , 21	161.2	2.983	5.04	5.57	7.89	2.92	0.00	5.84	3.18	0.27	28.85	2.95	10.61	0.27	3.71	18.57	2.92	0.00	0.00	1.06	1.06
25 - 1 , 75	161.8	2.995	1.49	2.69	3.88	2.99	0.30	3.88	1.79	3.88	18.81	1.49	8.66	0.90	1.19	40.30	2.38	0.30	0.30	0.30	4.48
25 - 1 , 125	162.3	3.006	3.30	2.97	3.30	3.63	0.33	6.27	0.85	2.64	7.28	1.35	25.74	0.66	3.96	24.75	7.28	0.33	0.99	0.23	3.86
25 - 2 , 0	162.5	3.012	2.22	1.23	2.47	1.48	0.00	8.64	6.91	12.10	16.54	1.23	21.98	0.00	2.22	7.13	3.95	0.00	0.00	3.70	8.15
25 - 2 , 26	162.8	3.018	3.74	1.35	3.50	2.16	1.62	8.09	9.89	2.43	5.93	1.89	25.07	1.08	3.50	5.88	14.82	0.27	0.00	3.50	3.50
25 - 2 , 97	163.5	3.033	0.47	1.40	2.80	0.00	0.93	7.01	1.87	0.00	49.07	0.93	21.06	0.47	2.34	2.80	5.81	0.00	0.00	3.27	0.00
25 - 2 , 148	164.0	3.045	2.54	2.22	1.27	5.71	0.63	7.62	8.21	0.32	46.03	0.95	10.16	0.00	3.17	4.44	3.17	0.32	0.32	1.90	0.00
25 - 3 , 70	164.7	3.061	4.30	0.72	0.95	2.15	1.19	9.31	11.68	1.67	43.68	0.48	16.47	0.48	1.43	2.39	0.95	0.00	0.00	0.95	1.18
25 - 3 , 139	165.4	3.076	2.99	1.79	2.35	1.49	1.18	3.28	4.76	0.00	11.04	1.49	21.18	1.18	5.07	21.19	14.03	0.90	1.79	3.26	0.90
25 - 4 , 17	165.7	3.082	5.12	3.15	3.15	1.18	0.78	1.57	3.15	0.39	9.84	0.38	24.02	0.00	2.38	22.05	19.29	0.39	0.79	1.18	1.18
26 - 1 , 40	166.4	3.098	5.17	2.25	3.15	3.80	0.90	10.58	2.02	0.45	15.96	2.47	33.46	0.22	3.62	1.80	9.21	0.00	0.00	1.35	3.50
26 - 1 , 96	167.0	3.111	8.97	5.13	5.34	1.28	0.00	9.62	3.42	0.43	14.74	1.28	35.26	1.07	3.21	2.14	4.70	0.43	0.00	1.71	1.29
26 - 1 , 148	167.5	3.122	3.69	1.85	2.37	1.85	0.26	7.65	0.78	0.28	34.30	0.78	23.22	0.53	3.17	10.29	5.28	0.00	0.00	0.78	2.90
26 - 2 , 60	168.1	3.136	9.52	1.40	3.90	1.72	0.31	7.02	6.55	0.16	20.12	1.72	22.00	0.78	2.85	15.91	4.06	0.16	0.00	0.31	1.72
26 - 2 , 125	168.8	3.151	8.77	1.97	2.15	1.07	3.22	4.47	2.68	0.00	7.51	2.15	42.22	0.72	2.50	5.72	6.98	0.36	0.00	1.79	5.72
26 - 3 , 50	169.5	3.167	9.44	4.31	5.21	2.51	0.54	4.13	0.00	3.55	24.96	4.13	21.01	0.00	2.51	11.31	4.85	0.18	0.00	0.18	1.90
26 - 3 , 100	170.0	3.178	8.87	3.08	2.81	0.71	0.24	3.55	0.00	5.21	41.00	0.00	11.61	0.24	4.74	17.06	1.42	0.24	0.24	0.47	0.71
26 - 4 , 18	170.7	3.193	12.09	1.98	1.29	3.96	0.99	6.24	1.29	12.39	1.28	0.69	32.01	0.30	13.68	2.97	6.54	0.00	0.00	0.30	1.96
27 - 1 , 4	171.0	3.201	7.43	4.00	3.71	2.29	1.71	5.71	0.00	0.57	0.00	0.00	34.86	0.00	26.29	7.71	4.00	0.57	0.00	0.00	1.14
27 - 1 , 65	171.7	3.215	9.55	2.86	5.97	3.82	1.19	5.73	0.00	3.82	0.00	0.48	35.32	0.48	18.38	2.83	5.97	0.24	0.00	3.10	0.48
27 - 1 , 85	171.9	3.219	16.55	2.16	8.00	5.28	1.92	6.95	0.24	6.15	0.24	0.48	20.62	0.24	20.86	2.40	6.00	0.00	0.00	1.44	0.48
27 - 1 , 100	172.0	3.223	15.06	0.42	1.87	1.16	0.84	10.04	0.00	7.53	0.42	1.67	21.76	0.00	22.59	5.44	7.11	0.84	0.00	1.67	1.67
27 - 1 , 120	172.2	3.227	22.61	4.35	11.30	6.52	1.74	6.09	0.00	2.17	0.00	0.43	13.91	0.87	11.30	11.30	5.65	0.43	0.00	1.30	0.00
27 - 2 , 53	173.0	3.246	18.79	3.69	4.70	4.03	0.67	7.05	0.00	0.34	0.00	0.00	33.22	0.34	8.73	8.72	5.37	0.00	0.00	1.68	1.68
27 - 2 , 74	173.2	3.250	16.84	2.46	5.26	7.02	2.11	15.09	0.00	2.11	1.05	2.81	19.30	0.35	11.23	6.32	4.21	0.35	0.00	2.48	1.05
27 - 2 , 126	173.8	3.262	17.48	2.91	5.18	7.12	1.29	14.24	0.00	4.53	1.29	1.62	23.62	0.65	4.85	2.59	5.83	0.00	0.00	0.00	6.80
27 - 3 , 20	174.2	3.272	48.15	5.58	4.07	9.52	0.37	3.33	0.00	1.11	0.00	3.70	0.74	0.00	1.48	20.74	0.37	0.00	0.00	0.37	1.48
27 - 3 , 75	174.8	3.284	23.86	2.85	7.58	15.91	0.78	13.28	0.00	4.92	0.00	4.55	3.06	0.38	1.14	13.64	0.00	0.00	0.00	1.89	3.41
27 - 3 , 149	175.5	3.300	24.80	5.20	5.20	10.00	0.00	15.60	0.00	6.80	0.00	3.60	11.20	0.00	2.00	9.30	1.20	0.00	0.00	0.30	4.00
27 - 4 , 4	175.5	3.301	32.79	4.22	2.27	17.96	0.37	6.40	0.00	3.25	0.00	2.60	10.39	0.00	0.35	15.58	0.97	0.00	0.00	1.30	0.65
27 - 4 , 25	175.8	3.306	13.57	8.58	5.15	14.71	1.10	8.82	0.00	0.00	0.00	0.74	21.32	0.00	1.47	16.54	2.94	0.37	1.10	1.10	3.31
28 - 1 , 24	176.2	3.317	9.28	5.94	3.78	18.48	0.00	8.83	0.00	0.00	1.03	0.00	13.08	0.34	4.12	28.87	1.37	0.00	1.37	4.81	0.89
28 - 1 , 51	176.5	3.323	10.94	6.78	9.63	10.72	4.19	11.16	0.22	0.44	0.44	1.31	12.47	0.00	1.31	21.23	3.50	0.00	0.22	3.72	1.75
28 - 1 , 104	177.0	3.335	20.93	2.42	5.95	5.73	0.44	10.57	0.00	0.66	0.22	1.54	19.38	0.44	1.76	23.13	0.22	0.22	0.00	3.96	2.42
28 - 1 , 145	177.5	3.344	18.36	2.30	7.54	0.66	0.98	8.85	0.00	1.87	0.00	5.90	13.11	0.00	3.28	28.52	0.33	0.00	0.00	5.90	2.30
28 - 2 , 24	177.7	3.350	14.61	1.57	6.97	8.87	1.80	6.87	1.35	0.90	0.45	2.92	35.28	0.87	5.84	5.62	1.80	0.00	0.00	3.15	3.15
28 - 2 , 75	178.3	3.362	17.96	1.76	2.48	14.44	1.41	6.34	3.17	2.82	2.82	1.79	28.41	0.00	1.78	6.34	2.11	0.00	0.00	3.52	4.83
28 - 2 , 100	178.5	3.367	20.54	2.71	4.35	10.47	0.00	5.43	1.55	1.55	0.39	2.33	12.79	0.00	1.94	26.74	1.16	0.00	0.00	3.88	3.88
28 - 2 , 117	178.7	3.371	20.07	2.63	2.30	8.55	0.49	6.41	1.32	0.00	1.84	0.66	36.68	0.86	7.24	1.15	2.96	0.00	0.00	3.62	3.62
28 - 3 , 30	179.3	3.385	17.58	1.93	3.21	14.35	0.43	5.14	0.86	0.64	12.63	2.78	25.27	0.84	3.21	4.07	1.50	0.00	0.00	2.36	3.43
28 - 3 , 73	179.7	3.394	23.74	0.72	3.24	7.19	1.44	12.59	1.08	0.36	2.16	2.88	11.15	0.36	1.09	24.10	0.72	0.00	0.00	3.24	3.96
28 - 3 , 104	180.0	3.401	13.27	2.04	3.40	13.61	1.02	8.84	1.02	1.02	5.78	6.12	2.04	0.00	0.68	33.67	0.00	0.00	0.00	2.04	5.44
28 - 4 , 1	180.5	3.412	10.96	2.61	3.09	7.58	0.28	8.99	2.25	0.00	4.49	3.09	5.90	0.28	3.09	42.42	0.00	0.00	0.00	0.29	4.49
28 - 4 , 24	180.7	3.417	14.12	3.11	4.52	9.32	0.00	13.58	2.26	0.56	7.81	1.98	27.68	0.85	5.37	2.26	1.65	0.00	0.00	0.85	3.95
29 - 1 , 1	181.0	3.423	14.55	7.74	1.86	7.74	0.31	16.72	4.02	0.00	37.46	0.93	5.26	0.31	0.62	1.55	0.00	0.00	0.00	0.00	0.93
29 - 1 , 50	181.5	3.434	16.36	3.40	4.32	6.95	0.00	10.49	4.63	0.31	43.21	0.93	2.16	0.00	0.93	1.54	0.00	0.00	0.00	0.31	2.47
29 - 1 , 74	181.7	3.439	15.83	2.64	2.16	8.29	0.00	12.95	5.04	0.24	41.97	0.72	2.16	0.00	0.96	5.04	0.00	0.00	0.00	0.24	1.68
29 - 1 , 147	182.5	3.455	11.18	3.93	5.74	13.90	1.21	9.06	3.83	0.91	39.37	2.72	2.42	0.00	0.60	2.72	0.30	0.00	0.00	0.60	2.42
29 - 2 , 15	182.7	3.459	13.81	4.09	1.79	10.23	0.00	7.42	2.81	0.77	32.48	1.28	11.25	0.51	1.02	7.97	1.02	0.00	0.00	1.79	2.05
29 - 2 , 55	183.1	3.468	12.34	4.03	1.26	8.31	0.50	7.05	2.27	0.00	45.09	2.02	2.77	0.00	0.25	9.57	0.50	0.00	0.00	0.79	3.27
29 - 2 , 75	183.3	3.473	9.80	5.66	0.44	8.06	0.00	7.19	5.45	0.00	49.48	0.22	2.40	0.00	1.31	3.49	0.22	0.00	0.00	1.31	5.01
29 - 2 , 128	183.8	3.484	18.51	5.99	2.36	11.82	0.54	7.26	2.80	0.00	19.24	3.45	15.43	0.18	4.90	2.72	1.45	0.00	0.00	1.81	1.63
29 - 3 , 24	184.2	3.495	19.77	5.52	2.33	4.65	0.29	6.10	2.33	0.00	32.58	0.58	12.21	0.29	4.94	4.07	2.03	0.00	0.00	1.74	0.58
29 - 3 , 50	184.5	3.500	14.88	4.03	1.13	7.88	0.00	6.76	2.74	0.00	44.28	0.00	8.12	0.00	3.96	3.38	0.81	0.00	0.00	2.58	1.45
29 - 3 , 98	185.0	3.511	13.90	4.05	1.54	11.20	0.58	9.46	0.77	0.39	31.66	0.77	16.02	0.39	4.44	1.16	1.54	0.00	0.00	0.97	1.18
29 - 3 , 145	185.5	3.521	16.70	8.13	1.06	9.73	0.42	2.75	2.33	0.85	15.86	0.42	21.14	0.00	13.74	2.96	3.59	0.21	0.00	1.27	0.85
29 - 4 , 21	185.7	3.527	20.05	4.43	2.10	3.26	0.00	9.32	2.80	0.00	33.33	0.93	11.89	0.47	4.90	2.80	0.70	0.00	0.00	2.10	0.93
30 - 1 , 50	186.5	3.545	14.18	4.54	0.57	4.35	0.18	5.28	5.29	0.00	38.94	1.32	13.23	0.00	7.37	2.84	1.32	0.00	0.00	0.15	0.38

Table 9. Planktic foraminifer census data, DSDP Hole 552A.

SAMPLE	DEPTH	AGE	Globigerina bulloides	Globigerina falconensis	Globigerina pseudobesa	Globigerina inclsa	Globigerina digitata	Globigerina praedigitata	Globigerina earnesi	Globigerina woodi	Globigerina sp. 1	Globigerinella aequilateralis	Globigerinita glutinata	Globigerinoides obliquus	Globigerinoides ruber	Globigerinoides spp.	Globorotalia crassaformis	Globorotalia hirsuta	Globorotalia puncticulata	Globorotalia margaritae	Globorotalia menardii	Globorotalia scitula	Neogloboquadrina acostaensis	Neogloboquadrina atlantica (s)	Neogloboquadrina atlantica (d)	Neogloboquadrina pachyderma (s)	Neogloboquadrina pachyderma (d)	"dupac"	Orbulina universa	Turborotalita quinqueloba	Other	Reworked	Benthics	Total planktics	Fragments
9-2,11	40.61	2.290	9	0	0	0	0	0	0	2	0	0	15	0	0	0	6	0	0	0	0	5	30	40	42	5	79	79	1	6	2	0	2	321	38
9-2,31	40.81	2.296	59	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	104	27	15	39	22	0	4	7	0	6	282	61
9-2,49	40.99	2.309	23	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	1	0	0	3	3	208	23	5	19	17	1	2	3	0	12	314	275
9-2,89	41.39	2.338	29	0	0	0	0	0	0	1	0	0	19	0	0	0	0	0	14	0	0	0	9	139	21	9	22	21	1	2	2	0	5	289	165
9-2,109	41.59	2.353	30	3	0	0	0	0	0	0	0	0	8	0	0	0	3	0	24	0	0	1	27	98	22	2	26	46	1	7	3	0	1	301	30
9-2,131	41.61	2.369	49	7	0	0	0	0	0	0	0	4	10	0	0	0	0	0	6	0	0	5	0	200	4	5	4	5	0	4	4	0	13	307	94
9-2,148	41.98	2.381	8	1	0	0	0	0	0	0	5	0	16	0	0	0	0	0	1	0	0	10	10	225	11	9	7	10	0	1	0	0	9	314	75
9-3,23	42.23	2.399	73	4	0	0	0	0	0	0	0	1	16	0	0	0	0	0	18	0	0	2	18	100	20	5	13	23	0	0	1	0	3	294	74
9-3,39	42.39	2.411	19	0	2	0	0	0	0	4	0	3	8	0	0	0	6	0	58	0	0	2	22	134	27	4	13	33	5	2	4	0	2	348	65
9-3,59	42.59	2.425	38	0	0	0	0	0	0	2	0	1	9	0	0	0	0	0	15	0	0	0	6	166	21	10	5	30	1	3	1	0	3	308	55
9-3,78	42.78	2.439	26	1	0	0	0	0	0	3	0	0	11	0	0	0	10	0	4	0	0	1	22	140	13	8	6	21	2	22	2	0	1	294	52
9-3,103	43.03	2.456	30	0	0	0	0	0	0	1	0	0	8	0	0	0	0	0	39	0	0	1	3	149	26	2	7	22	2	6	4	0	3	300	55
9-3,119	43.19	2.469	10	0	1	0	0	0	0	5	0	2	15	0	0	0	5	1	19	0	0	2	46	126	28	4	20	38	2	1	2	0	3	327	62
9-3,146	43.48	2.490	27	0	0	0	0	0	0	0	0	2	13	0	0	0	4	0	17	0	0	3	23	99	21	7	41	50	0	4	6	0	5	317	175
9-4,21	43.71	2.510	47	5	3	0	0	0	0	1	0	0	17	0	0	0	8	0	35	0	0	1	13	148	10	2	4	10	2	1	4	0	8	309	85
10-1,49	44.49	2.750	55	2	0	0	0	0	0	1	0	1	9	0	0	0	1	0	13	0	0	4	26	48	40	3	18	62	0	4	3	0	1	288	135
10-1,69	44.69	2.765	41	5	2	0	0	0	0	3	0	1	10	0	0	0	2	0	21	0	0	1	73	57	8	4	23	68	2	0	2	0	6	323	130
10-1,90	44.90	2.780	24	4	0	0	0	0	0	2	0	0	5	0	0	0	5	0	22	0	0	2	19	109	23	3	21	57	0	3	10	0	7	309	120
10-1,111	45.11	2.795	24	1	0	0	0	0	0	0	0	0	8	0	0	0	0	1	9	0	0	4	89	97	10	3	35	38	0	0	2	0	4	299	95
10-1,131	45.31	2.809	36	0	0	0	0	0	0	0	0	0	12	0	0	0	3	0	30	0	0	2	16	70	20	9	45	66	0	0	6	0	6	315	75
10-2,11	45.61	2.831	32	4	0	0	0	1	0	3	0	0	17	0	0	0	7	0	34	0	0	0	40	106	19	2	29	25	0	1	4	0	3	324	103
10-2,31	45.81	2.846	31	2	0	0	0	0	0	3	0	0	12	0	0	0	0	0	48	0	0	1	12	69	27	7	25	51	1	0	3	0	4	292	90
10-2,50	46.00	2.859	28	4	1	0	0	0	0	2	0	0	16	0	0	0	2	1	57	0	0	0	35	67	10	2	47	40	1	0	2	0	2	313	100
10-2,70	46.20	2.874	24	0	0	0	0	0	0	4	0	0	20	0	0	0	3	0	58	0	0	0	11	81	20	13	38	36	0	0	0	0	2	308	71
10-2,91	46.41	2.889	41	5	2	0	0	0	0	7	0	0	32	0	0	0	4	0	59	0	0	0	8	130	4	4	8	2	1	2	4	0	1	313	79
10-2,110	46.60	2.903	12	1	3	0	0	0	0	2	0	2	34	0	0	0	2	0	64	0	0	2	14	115	8	5	17	27	0	2	2	0	3	312	60
10-2,132	46.82	2.919	15	2	2	0	0	0	0	3	0	6	23	0	0	0	0	0	65	0	0	1	28	140	4	3	2	14	1	0	5	0	7	314	95
10-3,11	47.11	2.940	10	0	0	0	0	0	0	1	0	0	21	0	0	0	3	0	47	0	0	2	48	104	11	6	19	37	0	3	4	0	0	316	105
10-3,31	47.31	2.954	18	2	0	0	0	1	0	3	1	0	32	0	0	0	4	0	84	0	0	4	36	83	8	7	6	30	0	2	3	0	3	324	110
10-3,51	47.51	2.969	13	5	2	0	0	1	0	5	0	0	40	0	0	0	21	0	96	0	0	0	24	75	12	9	12	11	0	5	5	0	6	338	110
10-3,75	47.75	2.986	27	2	0	0	0	0	0	7	0	0	24	0	0	0	14	0	35	0	0	1	25	87	7	13	7	27	0	7	4	0	3	287	90
10-3,93	47.93	2.996	24	1	1	0	0	0	0	4	0	1	57	0	0	0	9	0	55	0	0	4	43	89	2	8	19	37	0	13	8	0	4	375	75
10-3,114	48.14	3.006	23	2	1	0	0	1	0	5	0	1	34	0	0	1	18	0	32	0	0	2	49	61	6	5	14	40	0	13	6	0	2	314	84
10-3,128	48.28	3.012	38	3	1	0	0	0	0	3	0	0	33	0	0	0	4	0	52	0	0	5	25	64	3	8	14	27	1	9	5	0	2	295	70
10-4,19	48.69	3.031	17	7	0	0	0	0	0	2	0	0	13	0	0	0	12	8	80	0	0	2	20	100	5	5	10	15	0	18	6	0	2	320	77
11-1,88	49.68	3.087	25	11	2	0	0	0	0	3	0	0	20	0	0	0	4	0	60	0	1	1	45	84	9	4	18	30	0	5	8	0	3	330	85
11-1,109	50.09	3.097	32	0	2	0	0	0	0	2	0	0	18	0	0	0	3	0	85	0	0	1	38	58	5	9	11	28	1	11	2	0	6	305	67
11-1,128	50.28	3.106	22	10	1	0	0	0	0	3	0	0	10	0	0	0	1	1	96	0	0	5	39	89	5	10	8	20	1	7	5	0	4	333	32
11-2,11	50.81	3.121	56	2	0	0	0	0	0	0	0	0	7	0	0	0	3	0	59	0	0	2	3	118	9	7	16	38	1	6	3	0	2	330	51
11-2,31	50.81	3.130	44	7	0	0	0	0	0	4	0	1	7	0	0	1	0	3	83	0	0	1	17	82	5	12	10	19	1	4	6	0	2	307	16
11-2,54	51.04	3.141	122	0	0	0	0	0	0	1	0	0	9	0	0	0	0	0	51	0	0	2	8	86	3	6	1	9	0	1	0	0	1	299	85
11-2,84	51.34	3.155	146	4	3	0	0	0	0	3	0	2	10	0	0	0	0	0	0	0	0	2	17	104	10	12	9	13	0	4	1	0	0	340	50
11-2,109	51.59	3.167	97	1	0	0	0	0	0	2	0	1	4	0	0	0	0	0	1	0	0	5	13	77	12	10	16	9	0	3	5	0	2	256	47
11-2,131	51.81	3.177	115	2	0	0	0	0	0	4	0	1	8	0	0	0	0	8	1	0	0	3	22	98	8	9	14	26	0	0	6	0	7	327	82
11-2,145	51.95	3.183	133	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	2	0	0	8	11	81	10	8	22	30	0	0	5	0	3	324	80
11-3,22	52.22	3.198	98	5	2	0	0	1	4	4	1	0	14	0	0	0	0	2	2	0	0	4	17	112	11	11	23	19	0	0	7	0	1	335	57
11-3,43	52.43	3.206	138	2	0	0	0	0	0	2	0	1	5	0	0	0	0	0	0	0	0	0	4	122	5	13	5	4	0	2	1	0	4	304	50
11-3,59	52.59	3.213	103	3	0	0	0	1	0	4	0	0	10	0	0	0	0	0	0	0	0	6	2	147	4	5	3	2	0	3	6	0	3	299	65
11-3,81	52.81	3.223	118	1	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	0	0	9	0	163	3	0	0	5	1	9	4	0	1	323	66
11-3,100	53.00	3.232	83	7	0	0	0	1	0	6	0	0	9	0	0	0	0	1	1	0	0	4	4	156	3	12	2	2	0	0	5	0	4	296	73
11-3,122	53.22	3.243	96	5	0	0	0	0	0	4	0	0	14	0	0	0	0	2	2	0	0	4	17	111	11	11	23	19	0	0	7	0	1	326	57
11-3,144	53.44	3.253	50	10	0	0	0	1	0	24	0	1	13	0	0	0	0	0	0	0	0	4	5	141	6	11	2	11	0	13	6	0	4	298	95
11-4,13	53.63	3.262	52	0	0	0	0	0	0	0	0	1	15	0	0	0	0	0	0	0	0	7	0	153	9	7	4	11	0	16	5	0	7	280	120
11-4,29	53.79	3.269	29	5	1	0	0	0	0	22	1	0	16	0	0	0	0	3	2	0	0	8	11	171	15	23	2	4	0	6	2	0	7	321	75
12-1,44	54.44	3.299	46	0	0	0	0	0	0	14	0	3	13	0	0	0	0	0	1	0	0	7	0	155	47	7	17	8	0	5	3	0	3	326	76
12-1,61	54.61	3.307	22	4	0	0	0	0	0	25	0	1	14	0	0	0	0	0	1	0	0	3	12	146	17	9	24	11	1	4	0	0	6	294	67
12-1,81	54.81	3.317	33	0	0	0	0	0	0	19	0	0	16	0	0	0	0	0	0	0	0	2	0	134	40	24	34	21	0	3	6	0	1	334	85
12-1,103	55.03	3.327	44	5	0	0	0	0	0	22	0	0	20	0	1	0	0	0	4	0	0	10	36	118	28	8	33	17	0	0	8	0	5	354	90
12-1,121	55.21	3.335	56	0	0	0	0	0	0	9	0	2	14	0	0	0	0	0	2	0	0	14	0	118	32	1	29	22	1	4	2	0	6	306	86
12-1,141	55.41	3.345	51	16	0	0	0	0	0	2	0	0	10	0	0	0	1	0	5	0	0	2	30	109	26	3	23	16	0	4	5	0	5	303	105
12-2,21	55.71	3.359	145	3	0	0	0	0	0	2	0	1	6	0	0	0	15	0	0	0	0	5	0	93	6	0	13	10	0	7	2	0	3	308	83
12-2,39	55.89	3.367	108	8	0	0	1	0	0	2	0	0	2	0	0	0	12	0	14	0	0	8	10	112	8	6	5	2	0	7	2	0	3	305	87
12-2,59	56.09	3.376	131	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	4	0	0	0	0	79	14	5	31	28	1	7	7	0	4	313	65
12-2,80	56.30	3.386	119	8	0	0	0	3	0	6	0	0	5	0	0	0	3	0	15	0	0	0	13	107	20	5	12	9	1	1	3	0	1	330	61
12-2,96	56.46	3.393	148	2	0	0	0	0	0	0	0	1	4	0	0	0	0	0	22	0	0	0	2	97	5	3	7	15	2	4	2	0	2	314	61
12-2,119	56.69	3.403	99	6	0	0	0	0	0	2	1	1	7	0	0	0	1	1	20	0	0	2	0	146	4	5	3	0	0	13	6	0	3	317	61
12-2,139	56.89	3.409	27	0	0	0	0	0	0	2	0	0	5	0	0	0	0	0	34	0	0	2	2	218	20	10	2	0	0	4	1	0	3	327	40
12-3,11	57.11	3.416	23	21	0	2	0	1	0	3	0	0	16	0	0	0	1	1	93	0	0	8	0	136	4	1	1	0	0	1	49	0	6	381	69
12-3,30	57.30	3.422	80	0	0	0	0	0	0	8	0	0	10	0	0	0	9	0	50	0	0	1	0	131	10	0	8	7	0	3	6	0	3	323	100
12-3,50	57.50	3.429	46	14	0	0	0	0	0	4	0	0	14	1	0	0	1	2	88	0	0	1	1	137	7	3	3	6	0	10	3	0	5	341	85
12-3,70	57.70	3.435	88	0	0	0	0	0	0	0	0	0	3	0	0	0	13	0	116	0	0	8	4	89	5	1	3	0	0	5	0	0	10	333	62

Table 9 (cont). Planktic foraminifer census data, DSDP Hole 552A.

SAMPLE	DEPTH	AGE	Globigerina bulloides	Globigerina falconensis	Globigerina pseudobesa	Globigerina incisa	Globigerina digitata	Globigerina praedigitata	Globigerina earnesi	Globigerina woodi	Globigerina sp. 1	Globigerinella aequilateralis	Globigerinita glutinata	Globigerinoides obliquus	Globigerinoides ruber	Globigerinoides spp.	Globorotalia crassaformis	Globorotalia hirsuta	Globorotalia puncticulata	Globorotalia margaritae	Globorotalia menardii	Globorotalia scitula	Neogloboquadrina acostaensis	Neogloboquadrina atlantica (s)	Neogloboquadrina atlantica (d)	Neogloboquadrina pachyderma (s)	Neogloboquadrina pachyderma (d)	"dupac"	Orbulina universa	Turborotalita quinqueloba	Other	Reworked	Benthics	Total planktics	Fragments
12-3,89	57.89	3.441	35	22	3	0	0	0	0	0	0	0	3	0	0	0	5	0	145	0	0	4	0	90	4	1	0	0	0	3	4	0	5	319	51
12-3,131	58.31	3.454	26	0	0	1	0	1	0	1	0	0	14	0	0	0	0	1	88	0	0	8	0	129	5	3	2	2	1	7	4	0	3	302	55
12-4,11	58.61	3.464	27	0	0	0	0	0	0	5	0	1	18	0	0	0	0	0	79	0	0	3	0	151	8	5	3	2	2	12	0	0	6	318	75
12-4,31	58.81	3.470	16	15	0	0	0	2	0	12	0	0	15	0	0	0	0	3	38	0	0	9	4	148	6	5	6	7	1	21	5	0	4	313	95
13-1,140	60.43	3.522	68	0	0	0	0	0	0	4	0	0	11	0	0	0	1	0	82	0	0	8	12	119	20	9	8	19	1	8	6	0	4	354	94
14-1,41	62.41	3.584	51	0	0	0	0	1	0	0	0	0	10	0	0	0	0	1	116	0	0	7	6	79	11	5	6	4	4	1	3	0	4	305	60
14-1,79	62.79	3.597	68	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	127	0	0	4	0	80	13	4	5	3	1	0	0	0	6	312	72
14-1,125	63.25	3.611	47	0	0	0	0	1	0	6	0	0	9	0	0	0	0	2	76	0	0	1	5	120	17	11	10	10	2	1	3	0	2	321	45
14-2,13	63.61	3.623	40	1	0	0	0	0	0	7	0	0	17	1	0	0	0	1	71	0	0	3	10	125	7	8	15	8	1	0	6	0	2	321	60
14-2,51	64.01	3.635	48	3	0	0	0	0	0	5	0	0	7	0	0	0	0	1	105	0	0	1	2	130	16	7	7	2	2	0	0	0	2	336	31
14-2,90	64.40	3.648	92	0	0	0	0	0	0	0	0	0	10	0	0	0	0	1	55	0	0	2	0	124	5	4	2	3	0	0	7	0	8	305	37
14-2,130	64.80	3.660	59	1	0	0	0	0	0	2	0	0	12	0	0	0	0	0	77	1	0	4	8	102	15	5	11	7	2	2	1	0	4	307	30
14-3,20	65.20	3.673	23	1	0	0	0	0	0	2	0	0	19	0	0	0	0	0	95	0	0	2	12	96	8	10	13	19	0	1	4	0	4	307	40
14-3,80	65.80	3.686	28	0	0	0	0	0	0	11	0	0	16	0	0	0	3	1	100	0	0	5	11	121	7	6	7	4	2	1	2	0	5	325	60
14-3,100	66.00	3.698	30	0	1	0	0	3	0	17	0	0	15	0	0	0	11	0	65	1	0	6	10	120	10	5	10	5	2	1	8	0	5	318	60
14-3,139	66.39	3.711	19	2	0	0	0	2	0	3	0	0	31	0	0	0	4	0	74	0	0	1	4	138	14	7	17	8	0	0	3	0	2	323	80
15-1,53	67.53	3.747	21	0	0	0	0	0	0	4	0	0	6	0	0	0	2	4	83	0	0	5	9	136	8	10	11	13	1	0	8	0	5	321	85
15-1,88	67.88	3.758	26	3	0	0	0	0	0	3	0	0	7	0	0	0	2	4	79	0	0	5	2	124	31	7	18	9	2	0	2	0	5	322	85
15-1,130	68.30	3.771	74	10	1	0	0	0	0	2	0	0	18	0	0	0	2	0	92	0	0	3	9	90	8	10	15	4	1	1	5	0	7	346	30
15-2,20	68.70	3.784	78	2	0	0	1	0	0	7	0	1	10	0	0	0	1	0	95	0	0	5	7	84	8	0	9	10	1	0	2	0	2	317	30
15-2,60	69.10	3.797	64	2	0	0	0	0	0	3	0	0	11	0	0	0	3	0	78	0	0	1	7	110	5	7	10	9	0	0	8	0	3	318	80
15-2,100	69.50	3.810	57	4	0	0	0	0	0	6	0	2	7	0	0	0	0	0	49	0	0	6	14	115	7	4	2	10	0	0	11	0	3	298	59
15-2,138	69.88	3.822	52	2	0	0	0	1	0	5	0	1	12	0	0	0	0	0	66	0	0	5	11	108	17	6	9	10	2	0	4	0	5	311	53
15-3,39	70.39	3.838	94	6	0	0	0	1	0	25	0	0	9	0	0	0	0	0	72	0	0	3	2	47	26	2	16	12	1	1	9	0	4	326	74
15-3,80	70.80	3.851	79	0	0	0	0	0	0	11	0	0	17	0	0	0	2	0	47	0	0	3	19	65	14	5	12	26	0	0	7	0	2	307	69
15-3,119	71.19	3.863	100	6	0	0	0	2	0	7	0	0	16	0	0	0	0	3	70	0	0	1	7	56	27	0	16	19	0	1	1	0	0	332	75
15-4,10	71.80	3.878	87	3	0	0	0	0	0	12	0	0	19	0	0	0	0	0	40	0	0	3	16	81	12	4	7	24	1	1	5	0	4	295	90
18-1,103	73.03	3.922	48	10	0	0	0	1	0	9	0	1	27	0	0	0	2	0	61	0	0	5	6	82	36	2	6	25	0	0	1	2	5	324	70
16-2,49	73.99	3.952	55	7	0	0	0	0	0	8	0	0	25	0	0	0	12	0	53	0	0	0	0	88	30	4	8	8	0	1	9	0	3	308	57
18-2,131	74.81	3.978	67	8	0	0	0	1	0	4	0	0	7	0	0	0	2	0	61	0	0	1	7	77	27	3	7	11	0	0	5	0	3	308	57
16-3,21	75.21	3.991	70	2	0	0	0	0	0	5	0	0	22	0	0	0	0	0	62	0	0	5	7	89	13	3	7	13	0	0	2	21	9	300	60
16-3,139	78.39	4.028	59	4	0	0	0	0	0	1	0	0	4	0	0	0	0	10	0	0	0	6	1	121	46	7	16	22	0	1	1	0	2	299	120
17-1,53	77.53	4.064	96	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0	0	2	0	6	8	88	44	9	23	12	2	0	9	0	3	304	98
17-1,130	78.30	4.089	112	0	0	0	0	1	0	2	0	0	10	0	0	0	0	0	0	0	0	3	4	72	27	11	34	40	0	1	6	0	6	323	100
17-2,80	79.10	4.114	62	4	0	0	0	0	0	4	0	0	9	0	0	0	0	0	0	1	0	4	2	129	59	4	11	25	2	0	3	0	4	319	185
17-2,140	79.90	4.140	72	0	0	0	0	0	0	2	0	0	5	0	0	0	0	0	0	0	0	5	1	121	62	7	14	20	0	1	1	0	8	311	127
17-3,70	80.70	4.165	68	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	15	0	0	9	7	131	50	4	7	16	1	0	3	0	5	318	134
17-4,20	81.70	4.197	80	0	0	0	0	1	0	9	0	0	5	0	0	0	0	0	1	0	0	6	13	138	62	15	4	26	0	0	3	0	6	343	165
18-1,90	82.90	4.235	65	2	0	0	0	0	0	3	0	0	7	0	0	0	0	0	0	0	0	5	5	112	80	5	26	18	0	1	1	0	10	332	107
18-1,130	83.30	4.248	139	1	0	0	0	0	0	1	0	0	8	0	0	0	0	0	0	0	0	3	7	89	21	9	6	12	0	0	0	0	8	298	130
18-2,70	84.20	4.278	34	0	0	0	0	0	0	5	0	0	6	0	0	0	0	0	0	0	0	7	3	137	78	10	19	15	0	0	5	0	8	319	170
18-3,10	85.10	4.305	66	0	0	0	0	0	0	9	0	0	13	0	0	0	0	0	0	0	0	15	2	67	93	6	29	35	3	0	1	0	8	339	202
18-3,90	85.90	4.330	58	0	0	0	0	2	0	4	0	0	8	0	0	0	0	0	4	5	0	7	7	94	82	12	33	16	0	0	6	0	7	338	184
18-4,20	88.70	4.356	99	0	0	0	0	0	0	4	0	0	10	0	0	0	0	2	2	0	0	4	0	96	69	18	20	11	0	0	2	0	15	337	185
19-1,81	87.81	4.391	122	3	0	0	0	0	0	6	0	0	3	0	0	0	0	0	0	1	0	8	17	60	35	19	25	10	0	0	7	4	3	320	46
19-2,11	88.81	4.418	79	1	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	2	8	144	8	74	4	1	2	0	4	0	3	334	36
19-3,20	90.20	4.487	97	0	3	0	0	1	0	0	1	0	3	0	0	0	0	0	12	0	0	0	9	89	28	10	28	18	2	0	10	0	5	309	150
19-3,101	91.01	4.492	70	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	12	6	103	65	4	34	14	1	0	8	0	8	318	105
19-3,140	91.40	4.505	142	0	0	0	0	0	0	1	0	0	6	0	0	0	0	0	0	0	0	10	8	69	40	10	29	11	2	0	10	0	8	338	105
20-1,100	93.00	4.558	82	10	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	13	7	109	79	5	17	7	3	0	7	0	8	345	225
20-2,20	93.70	4.578	82	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	12	4	111	54	8	22	12	3	0	7	0	2	320	225
20-2,80	94.30	4.597	120	1	0	0	0	1	0	2	0	0	7	0	0	0	0	0	0	0	0	11	12	83	44	2	43	4	1	0	9	0	5	340	120
20-3,10	95.10	4.622	49	0	0	0	0	0	0	0	1	0	10	0	0	0	0	0	0	0	0	14	5	81	67	5	49	11	0	0	10	0	17	302	140

Table 10. Planktic foraminifer census data, DSDP Hole 603C.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina pseudobesa*	*Globigerina pumilio*	*Globigerina sp. 1*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globoquadrina venezuelana*	*Globorotalia conomiozea*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina spp.*	"dupac"	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	*Turborotalita quinqueloba*	Other	Benthics	Total planktics
2 - ,113	4.63	1.602	0	0	3	3	7	3	0	0	0	0	0	1	18	4	1	32	92	7	0	0	79	0	11	8	1	0	0	15	0	0	0	0	33	0	5	2	10	15	3	1	2	3	15	359
2 - ,110	9.10	1.633	0	0	25	0	12	7	0	0	0	0	1	3	16	0	3	51	30	14	0	0	55	0	5	39	0	0	0	0	0	0	0	0	41	2	0	0	15	12	0	3	0	4	4	338
3 - ,109	12.69	1.658	1	0	8	0	2	0	0	0	0	0	5	5	41	0	5	58	40	11	0	0	0	0	8	13	3	0	0	1	0	0	0	0	85	15	20	6	20	3	0	1	0	3	3	354
3 - ,109	14.19	1.668	0	0	13	2	3	1	0	0	0	0	2	5	35	3	0	73	21	8	0	0	0	0	0	8	1	0	0	0	0	0	0	0	93	19	2	0	23	5	0	4	1	2	10	324
3 - ,110	17.20	1.889	2	0	18	0	15	3	0	3	0	1	1	0	38	3	4	72	20	15	0	0	0	0	3	69	0	0	1	2	0	7	2	0	17	1	0	0	14	7	5	6	0	0	1	349
3 - ,107	18.67	1.700	0	0	14	1	5	3	0	1	0	0	2	0	40	2	2	71	10	7	0	0	0	0	1	54	0	0	0	0	0	0	0	1	54	7	3	0	22	3	3	6	0	4	7	316
3 - ,108	20.18	1.710	0	0	22	2	15	3	0	2	3	3	2	2	30	5	4	77	25	9	0	0	0	0	0	45	0	0	9	0	0	0	0	0	27	17	1	0	19	6	4	1	2	3	3	338
4 - ,107	22.27	1.725	0	0	4	1	0	2	6	0	21	0	3	0	16	1	1	18	3	3	0	0	0	136	0	34	0	0	0	0	0	0	4	0	71	8	1	0	24	4	31	23	0	1	22	416
4 - ,112	23.82	1.736	0	0	12	1	7	0	2	4	0	0	0	0	18	2	5	47	11	6	0	0	0	100	0	23	0	1	2	0	0	0	3	0	94	6	0	0	24	14	10	15	0	3	36	410
4 - ,112	25.32	1.746	0	0	40	6	47	1	0	4	5	0	6	2	20	5	4	58	41	11	0	0	0	51	0	37	1	0	5	0	0	2	0	0	11	2	0	0	7	3	2	0	2	6	9	379
4 - ,112	26.82	1.757	0	0	13	0	11	0	0	1	16	0	3	0	27	1	3	34	19	6	0	0	0	5	0	55	3	0	56	0	0	0	1	0	26	37	1	0	41	7	7	2	1	4	17	380
4 - ,112	28.32	1.767	0	0	27	0	45	12	0	2	1	0	3	1	27	0	9	57	30	14	0	0	5	46	4	43	3	0	0	3	0	3	0	0	10	4	1	0	11	1	1	1	2	5	5	371
4 - ,112	29.82	1.777	0	0	6	2	9	0	1	1	0	0	2	0	5	0	3	30	3	8	0	0	1	7	17	117	0	0	0	21	0	0	0	0	49	5	0	0	23	1	3	0	0	1	13	315
5 - ,108	33.38	1.802	0	1	14	0	21	13	1	2	0	1	1	1	26	1	3	44	25	4	0	0	0	0	0	94	0	0	13	0	0	1	2	0	42	8	0	0	14	8	7	7	0	2	23	356
5 - ,108	34.88	1.813	0	0	24	0	39	8	0	5	1	0	1	1	15	5	5	59	62	13	1	0	1	29	0	85	1	0	0	0	0	0	0	0	22	0	1	0	3	14	6	3	0	5	9	409
5 - ,112	36.42	1.824	0	0	11	0	7	4	2	1	13	0	2	0	17	1	3	37	8	19	0	0	2	54	0	104	0	0	0	0	0	0	1	0	26	5	0	0	22	9	6	21	0	3	15	378
5 - ,108	37.88	1.834	2	0	19	5	30	5	0	6	7	0	4	6	33	4	3	65	8	6	0	0	5	10	0	63	6	1	0	0	0	0	0	0	20	8	0	0	15	16	0	0	1	4	2	352
5 - ,116	39.48	1.845	0	0	26	1	29	5	0	0	7	0	2	2	59	4	5	45	17	4	0	0	30	11	3	0	4	0	0	10	0	0	0	0	22	2	0	0	33	3	0	4	1	5	35	334
6 - ,108	42.98	1.869	0	0	21	2	17	3	4	4	18	0	0	0	60	1	7	72	34	13	0	0	34	5	0	0	0	0	0	0	0	0	0	0	19	7	0	0	19	5	0	4	0	3	13	352
6 - ,108	44.48	1.880	0	0	7	0	6	3	3	0	2	1	2	0	13	3	2	26	27	11	0	0	55	0	0	44	0	0	0	0	0	0	0	0	51	38	2	0	49	3	0	12	0	3	24	363
8 - ,108	48.98	1.952	0	0	30	0	23	3	0	2	4	0	0	0	54	2	5	42	47	1	0	0	107	0	0	0	3	6	0	0	0	0	0	0	35	6	3	0	16	16	4	3	0	4	47	416
7 - ,110	54.00	2.034	0	0	20	0	23	0	1	0	9	0	3	0	46	1	6	39	18	1	0	0	129	0	0	0	1	0	0	0	0	0	0	0	16	15	1	0	27	3	9	10	0	5	40	383
7 - ,109	55.49	2.058	0	0	30	1	15	2	0	0	9	1	9	0	44	0	3	74	29	6	0	0	87	0	0	1	0	3	11	0	0	0	1	0	12	5	1	0	5	4	4	6	0	4	46	367
7 - ,110	57.00	2.082	0	0	10	0	12	1	0	0	8	0	4	1	23	4	5	104	17	6	0	0	48	0	0	0	0	0	11	0	0	0	1	0	24	5	0	0	12	10	29	2	0	3	8	342
8 - ,108	60.48	2.138	0	0	30	0	6	4	1	1	8	0	1	0	36	0	4	66	28	6	0	0	47	0	2	0	0	0	4	0	0	0	0	0	37	4	0	0	19	8	0	26	0	2	40	340
8 - ,110	82.00	2.163	0	0	41	3	6	3	0	0	12	0	10	6	66	1	2	57	13	3	0	0	27	0	1	0	0	1	2	0	1	1	2	0	25	9	0	0	23	3	0	0	0	6	65	324
8 - ,109	63.49	2.187	1	0	41	0	34	4	0	1	21	0	4	3	92	1	2	18	32	2	0	0	17	0	1	0	1	0	0	0	0	0	0	0	24	5	0	0	9	6	1	6	0	8	19	332
8 - ,107	64.97	2.211	0	0	33	0	24	0	2	2	12	1	7	0	72	0	3	50	11	15	0	0	14	0	0	0	4	0	0	0	0	0	0	0	23	1	0	0	18	8	0	3	0	2	65	305
9 - ,109	73.39	2.347	0	0	10	0	5	11	0	2	11	4	26	0	21	4	1	75	46	5	0	0	29	3	2	0	1	0	0	0	0	0	0	0	35	5	0	0	15	24	0	12	0	4	12	353
9 - ,108	74.88	2.371	0	0	20	0	18	0	0	5	2	2	18	1	7	3	23	128	38	18	0	0	17	0	6	1	5	0	0	0	0	0	0	1	21	1	0	0	5	8	0	2	0	0	15	350
10 - ,109	78.39	2.428	0	0	16	0	10	1	0	0	0	1	4	0	79	8	2	108	0	13	0	3	52	0	10	0	4	0	0	0	0	0	0	0	19	3	0	0	9	15	0	2	0	2	39	363
10 - ,108	81.38	2.475	0	0	18	1	8	8	0	3	9	0	28	6	20	8	9	107	16	10	0	0	39	0	13	0	5	0	0	0	0	7	0	0	15	0	0	0	4	5	0	0	0	4	7	343
10 - ,101	84.31	2.510	0	0	20	2	31	4	0	1	0	0	15	1	42	0	10	72	41	14	0	0	36	0	1	10	0	0	0	0	0	0	0	7	8	0	0	0	7	16	0	0	0	3	36	341
14 - ,145	108.25	2.801	0	0	11	11	6	3	0	2	0	0	37	5	32	8	25	46	19	13	0	2	23	0	12	42	2	0	0	0	0	7	0	2	17	0	0	0	2	5	0	2	0	1	9	335
14 - ,145	109.75	2.820	0	0	3	0	6	1	0	1	0	0	11	3	11	7	9	71	53	7	0	0	8	0	75	34	1	0	0	0	0	6	0	0	2	0	0	0	4	3	0	0	0	1	32	319
14 - ,71	110.51	2.829	1	0	6	1	21	0	2	2	0	0	12	2	32	23	13	83	21	0	0	0	14	0	14	4	2	2	0	0	0	10	2	0	12	4	0	0	28	4	0	3	0	5	14	323
14 - ,71	112.01	2.847	0	0	15	3	33	2	0	0	0	0	10	1	39	9	20	65	49	16	0	0	11	0	8	27	0	0	0	0	0	9	0	1	8	5	0	0	11	2	0	5	0	2	60	351
15 - ,71	117.11	2.909	0	4	6	2	50	0	5	0	0	0	11	2	30	7	40	57	30	4	0	0	31	0	12	0	0	0	0	7	0	9	0	7	0	0	0	0	1	6	0	1	0	2	12	324
15 - ,145	117.85	2.918	0	3	16	6	31	0	4	0	0	0	14	0	23	8	15	40	13	1	0	0	49	0	10	6	3	0	0	0	0	3	0	0	0	0	0	0	2	6	0	0	0	2	41	255
15 - ,71	118.61	2.924	0	9	5	15	27	0	5	0	3	0	47	0	23	6	34	86	19	15	0	1	23	0	1	5	2	0	0	0	0	2	3	2	6	2	0	0	2	1	0	3	0	9	42	356
15 - ,71	120.11	2.934	0	4	17	8	30	4	3	0	0	0	8	2	77	1	10	39	24	7	0	0	56	0	3	6	0	0	0	0	0	4	0	2	4	0	1	0	4	9	0	6	3	6	62	336
15 - ,24	125.64	2.971	1	6	3	3	1	3	5	0	0	0	9	2	24	1	30	48	51	13	5	0	26	0	18	0	3	3	0	5	0	5	0	0	7	3	1	0	9	27	0	23	0	4	7	339
18 - ,71	129.71	3.004	0	7	16	3	37	5	0	0	0	0	15	2	69	1	27	12	25	3	1	0	22	0	12	3	6	5	0	0	0	14	2	0	9	3	2	0	6	4	0	3	1	5	21	320
16 - ,71	131.21	3.020	0	18	13	2	23	0	2	0	0	0	9	2	34	1	39	48	3	22	0	2	44	0	3	1	2	0	0	0	0	3	0	2	1	0	1	0	2	4	0	4	0	4	32	289
16 - ,71	132.71	3.037	0	14	6	0	28	1	3	0	0	0	10	7	36	1	23	38	65	7	13	0	36	0	1	1	0	0	0	0	0	3	0	0	4	0	0	0	1	17	0	0	2	3	15	322
17 - ,145	137.05	3.087	0	8	8	1	33	0	10	1	0	0	18	2	22	3	20	10	33	5	0	1	10	0	12	20	0	3	0	0	0	5	2	2	2	0	0	0	4	7	0	3	0	3	44	248
17 - ,106	142.66	3.170	1	11	18	0	48	2	2	0	0	0	20	1	15	6	45	34	28	16	9	0	2	56	2	2	5	0	0	0	0	2	0	0	6	0	0	0	0	14	0	0	1	4	13	350
18 - ,70	145.90	3.193	0	18	16	0	55	11	1	0	0	0	7	1	37	1	49	38	15	8	16	2	0	33	3	0	6	0	0	0	0	2	0	0	33	0	0	0	2	4	0	3	0	7	33	364
18 - ,145	146.65	3.199	0	21	22	0	32	6	0	2	0	0	15	3	41	0	15	14	27	1	0	0	0	47	13	0	4	0	0	0	0	21	0	3	7	4	1	0	19	10	0	3	2	7	26	340
18 - ,145	149.65	3.220	0	0	21	3	65	0	3	0	1	1	13	1	27	9	12	25	49	7	0	0	0	25	11	11	2	0	0	0	0	3	1	1	4	2	1	0	9	10	0	3	0	5	33	325
18 - ,11	154.31	3.253	0	5	30	1	48	0	3	1	10	0	17	1	34	3	17	23	6	15	0	0	0	41	14	0	2	0	0	0	0	5	0	0	3	0	0	0	4	8	1	0	0	4	19	294
19 - ,145	159.25	3.288	0	12	11	5	20	15	1	0	0	0	7	0	38	5	31	29	32	11	5	0	0	113	9	0	0	0	0	0	0	2	0	0	3	0	0	0	2	24	0	7	1	9	101	392
19 - ,71	160.01	3.294	1	8	20	4	46	27	4	0	3	0	19	1	37	0	12	19	20	6	0	1	0	43	8	0	3	0	0	0	0	4	2	3	3	1	0	0	1	15	0	5	1	8	47	325

Table 11. Planktic foraminifer census data, DSDP Hole 606.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina pseudobesa*	*Globigerina inclusa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerina decoraperta*	*Globigerina nepenthes*	*Globigerinella aequilateralis*	*Globigerina* sp. 1	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides* spp.	*Globoquadrina venezuelana*	*Globorotalia conomiozea*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia pumilio*	*Globorotalia scitula*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (l)*	*Neogloboquadrina atlantica (r)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachy (l)*	*Neogloboquadrina pachy (r)*	"dupac"	*Orbulina universa*	*Sphaeroidinellopsis* spp.	*Turborotalia quinqueloba*	Other	Benthics	Total planktics	Fragments
9-1,36	70.41	2.208	0	33	32	4	0	0	18	1	0	3	1	47	0	5	47	0	20	1	0	17	0	0	0	0	15	6	11	0	6	0	0	2	0	11	16	2	0	0	5	1	305	41
9-1,96	71.03	2.226	0	41	57	4	0	2	15	3	0	3	2	31	1	2	37	0	8	0	0	7	0	11	0	0	0	8	0	0	12	0	0	0	1	19	34	3	0	0	7	3	308	22
9-2,36	71.91	2.251	0	44	45	1	1	0	14	0	0	3	2	16	2	4	49	2	1	0	9	106	0	0	0	0	16	1	0	9	2	0	1	0	0	4	7	40	0	0	9	1	390	38
9-2,96	72.53	2.269	0	28	51	3	2	0	25	1	0	2	0	42	0	1	42	1	6	0	0	25	0	0	0	0	33	12	0	0	8	0	0	0	0	0	5	0	0	0	14	2	301	61
9-3,36	73.41	2.294	0	53	35	1	3	0	37	7	0	1	0	46	4	0	40	0	2	0	0	67	0	0	0	0	6	4	0	0	6	0	5	0	1	8	8	0	0	0	9	2	343	50
9-3,98	74.03	2.312	0	31	12	7	2	1	44	4	0	6	1	63	2	4	44	3	4	0	0	39	0	6	0	0	19	6	0	1	2	1	2	0	0	2	4	3	1	0	5	3	319	85
9-4,36	74.91	2.337	0	43	50	8	0	0	37	2	0	6	0	48	1	0	21	0	2	0	1	18	0	35	0	2	0	11	0	0	0	8	2	0	0	6	4	22	0	1	11	5	339	25
9-4,98	75.53	2.355	0	43	57	6	3	0	20	3	0	8	0	67	1	1	18	0	1	0	0	20	0	40	0	0	8	10	0	0	12	2	9	0	0	16	14	3	0	0	7	4	369	13
9-5,38	76.41	2.380	0	19	25	2	1	0	29	0	0	6	0	29	3	2	9	0	4	0	0	59	0	18	0	0	0	14	1	0	13	6	2	0	2	13	21	13	0	0	13	3	304	22
9-5,98	77.03	2.398	0	37	33	10	0	1	49	6	1	4	2	45	0	1	34	2	6	0	0	31	0	20	0	1	10	7	0	0	0	0	0	0	0	2	4	16	0	0	3	6	325	26
9-6,36	77.91	2.424	0	47	42	5	3	0	13	5	0	5	1	48	2	1	35	1	1	0	0	28	0	31	0	0	13	8	0	0	1	0	1	0	0	2	2	3	0	0	14	0	310	60
9-6,98	78.53	2.441	0	35	27	6	1	0	33	0	0	11	2	52	1	2	28	0	10	0	0	41	0	12	0	0	12	7	0	0	4	1	7	0	0	9	12	3	0	0	8	3	324	42
10-1,98	80.63	2.504	0	38	19	7	1	1	28	3	0	7	1	48	1	2	10	0	5	0	0	84	0	2	0	0	5	5	0	0	11	1	1	0	0	6	9	12	0	0	9	2	316	30
10-1,98R	80.63	2.504	0	22	12	4	0	2	20	2	0	6	0	37	0	0	8	0	2	0	0	58	0	4	0	0	0	3	0	0	10	2	1	0	0	3	10	7	0	1	8	1	222	14
10-2,98	82.13	2.551	0	23	37	3	0	2	29	4	0	7	2	28	1	6	12	20	8	0	0	33	0	34	0	4	0	5	0	0	21	1	5	0	3	8	3	7	0	3	8	0	317	36
10-3,98	83.63	2.598	0	63	47	1	0	1	36	2	0	5	0	32	0	2	19	2	1	0	0	27	1	39	0	0	0	5	0	0	3	4	6	0	0	5	0	2	0	0	6	1	309	32
10-4,96	85.13	2.645	0	35	34	3	1	1	42	10	0	5	1	27	0	11	31	9	9	0	0	45	0	0	0	0	7	7	1	0	2	0	4	0	1	1	6	2	0	0	13	2	308	30
10-5,98	86.83	2.692	0	40	62	1	0	0	25	9	0	11	0	38	2	6	35	1	7	0	0	19	0	28	0	0	0	3	0	0	4	0	3	0	0	7	10	0	0	0	20	3	331	36
10-8,98	88.13	2.739	0	48	55	0	0	0	36	8	0	4	2	29	0	7	25	5	0	0	0	23	0	46	0	0	1	4	0	0	2	0	1	1	0	2	2	2	0	0	10	6	313	32
11-1,9	89.34	2.777	0	47	29	6	0	0	30	8	0	6	3	21	0	8	41	8	3	0	0	22	0	56	0	0	0	9	0	0	0	1	2	0	0	9	2	4	0	0	6	1	321	39
11-1,29	89.54	2.783	0	38	26	5	0	0	45	5	0	9	1	22	3	5	28	16	3	0	0	22	0	29	0	0	3	2	0	0	4	0	1	0	0	5	9	4	0	0	10	1	295	32
11-1,59	89.84	2.792	0	20	21	5	1	0	43	5	0	9	0	23	0	21	43	4	0	0	0	40	0	35	0	0	1	3	0	0	0	0	2	0	0	4	7	3	0	0	4	8	294	55
11-1,98	90.23	2.804	0	21	24	2	2	0	47	5	0	8	1	26	0	13	29	4	3	0	0	29	0	46	0	0	0	5	0	0	4	0	4	0	0	13	6	6	0	0	6	2	304	33
11-1,129	90.54	2.814	0	37	35	9	2	1	32	1	0	11	3	21	1	11	38	14	3	0	0	34	0	49	0	3	0	3	0	0	1	0	2	0	0	8	11	5	0	0	12	1	345	75
11-1,141	90.66	2.818	0	38	32	4	4	0	35	2	0	9	4	11	2	9	44	18	6	0	0	18	0	46	0	0	0	3	0	0	4	0	4	0	0	3	3	8	0	0	5	1	312	55
11-2,21	90.96	2.827	0	26	30	2	0	0	55	3	0	11	2	20	0	12	36	15	6	0	0	18	0	26	0	2	0	3	0	0	2	0	2	0	1	5	8	3	0	0	7	2	297	45
11-2,63	91.38	2.840	0	28	28	5	0	1	39	1	0	7	0	35	0	8	23	6	6	0	0	18	0	66	0	1	0	8	0	0	2	1	0	0	0	2	4	4	0	0	8	3	303	50
11-2,98	91.73	2.851	0	24	34	8	1	2	28	3	0	7	0	17	2	10	16	4	3	0	0	38	0	68	0	0	1	6	0	0	5	0	1	0	2	8	15	0	0	0	9	3	312	40
11-2,131	92.06	2.862	0	28	37	10	1	2	37	3	0	14	0	45	0	7	17	7	8	0	0	22	0	51	0	0	0	0	0	0	15	0	1	0	0	2	9	5	0	0	12	3	333	90
11-3,22	92.47	2.874	0	34	45	8	1	2	34	4	0	10	0	36	0	31	23	11	4	0	0	19	0	37	0	0	3	5	4	0	8	0	0	0	0	1	7	3	0	0	13	3	343	53
11-3,56	92.83	2.886	0	52	36	5	5	0	37	2	0	8	1	29	5	25	32	5	12	0	0	17	0	4	0	1	13	4	1	0	6	0	1	0	0	1	8	3	0	0	8	5	319	40
11-3,140	93.65	2.911	0	24	27	8	0	2	51	0	0	8	1	36	2	17	16	19	5	0	0	31	0	13	0	1	10	6	0	0	18	0	0	0	0	3	10	5	0	1	4	4	318	110
11-4,20	93.95	2.920	0	30	55	3	0	0	40	7	0	7	0	33	0	4	11	1	0	0	0	48	0	60	0	0	0	1	0	0	9	0	4	0	0	1	4	5	0	0	9	2	332	82
11-4,79	94.54	2.927	0	34	28	4	0	3	35	1	0	9	0	17	0	12	12	9	1	0	0	33	0	70	0	0	0	1	2	0	5	0	4	0	1	10	4	4	1	0	5	3	305	65
11-4,120	94.95	2.931	0	37	46	5	0	1	35	5	0	9	0	22	3	26	14	7	1	0	0	8	0	58	0	0	8	4	0	0	1	0	0	0	0	0	1	6	0	0	6	2	301	70
11-5,20	95.45	2.936	0	44	32	8	9	1	29	5	0	10	2	47	0	12	26	15	4	0	0	24	0	21	0	0	0	3	0	0	9	0	0	0	0	4	5	7	0	0	10	3	327	100
11-5,59	95.84	2.941	0	0	23	9	3	2	48	5	0	10	0	26	0	8	10	17	7	0	0	40	0	16	0	0	1	5	0	0	11	1	0	0	0	11	23	9	0	0	10	3	295	80
11-5,80	96.05	2.943	0	39	63	4	1	0	53	8	0	4	0	30	1	17	25	2	5	0	0	34	0	5	0	1	3	14	0	0	9	0		0	0	8	8	1	0	0	10	4	345	100
11-5,119	96.44	2.947	0	28	42	7	0	2	62	2	0	12	3	40	1	11	16	12	8	0	0	57	0	2	0	2	3	4	0	0	15	0	0	0	0	3	4	3	1	0	10	2	350	75
11-8,21	96.96	2.953	0	10	13	6	0	4	29	0	0	6	3	26	1	8	9	17	12	0	0	71	0	0	0	3	9	2	0	0	19	0	2	0	1	14	20	4	0	0	8	3	299	65
11-8,56	97.31	2.956	1	29	17	3	0	1	54	3	0	15	3	33	0	5	16	14	4	0	0	57	0	1	0	0	4	5	0	0	22	0	0	0	1	11	29	13	0	0	7	3	348	65
11-cc,13	97.54	2.959	4	30	70	2	0	1	41	2	0	10	0	29	0	14	18	16	11	0	0	51	0	16	0	2	2	6	0	0	12	0	0	0	0	5	6	4	0	2	6	3	360	105
12-1,98	99.73	2.982	23	34	72	5	0	2	29	0	0	1	0	33	0	10	21		10	14	0	35	0	5	0	1	0	12	0	0	7	0	0	0	0	1	6	6	0	0	6	4	333	65
12-1,132	100.07	2.986	0	34	53	8	1	0	36	0	0	8	1	43	1	11	11	6	3	0	0	43	0	11	0	1	0	4	0	0	12	0	0	0	0	5	5	0	0	2	9	6	306	55
12-2,37	100.62	2.996	3	27	68	4	0	1	15	3	0	10	2	29	0	22	32	10	5	0	0	48	0	7	0	0	0	10	1	0	7	0	0	0	0	5	1	3	0	0	8	5	321	53
12-2,80	101.05	3.009	0	23	60	3	0	2	20	2	0	5	2	37	0	11	10	2	9	4	0	52	0	28	0	0	5	4	0	0	6	0	0	0	1	1	0	2	1	0	11	3	321	46
12-2,119	101.44	3.020	1	35	62	4	0	0	42	2	0	1	0	29	1	9	6	5	2	0	0	49	0	47	0	0	1	3	0	1	2	0	0	0	0	2	10	2	3	0	9	2	328	65
12-3,5	101.80	3.031	5	33	40	1	0	1	35	0	0	5	3	30	0	21	33	5	2	1	0	36	0	56	0	1	0	3	0	0	13	0	0	0	0	6	10	1	1	0	7	0	349	57
12-3,35	102.10	3.040	7	30	43	2	0	1	23	2	0	5	8	31	3	20	9	1	9	2	0	34	0	92	0	0	0	2	0	0	10	0	0	0	0	2	4	1	4	1	7	6	353	61
12-3,80	102.55	3.054	3	24	38	5	0	0	27	0	0	9	2	31	1	9	19	5	6	0	0	21	0	50	0	0	1	5	0	0	17	0	0	0	0	10	18	0	4	0	8	2	313	55
12-3,119	102.94	3.065	2	36	38	3	0	1	25	1	0	8	2	30	3	16	24	3	6	0	0	30	1	44	0	0	0	3	0	0	13	0	0	0	0	3	23	0	4	2	5	0	324	30
12-4,5	103.30	3.076	3	39	46	6	0	0	30	4	0	3	2	25	0	17	17	10	9	0	0	7	8	28	3	0	0	3	0	0	13	0	1	0	1	8	15	2	5	0	5	2	310	19
12-4,37	103.63	3.087	8	50	49	2	1	0	33	1	0	4	2	17	3	9	0	2	5	0	0	0	32	60	0	1	0	2	0	0	10	0	1	0	1	10	14	0	2	0	4	2	323	33
12-4,90	104.15	3.104	6	49	45	3	1	0	32	0	0	4	3	23	0	4	14	5	4	0	0	0	38	54	0	0	0	8	0	0	11	0	0	0	0	4	11	0	6	3	4	2	332	48
12-4,119	104.44	3.114	0	38	57	2	0	0	47	0	0	7	0	25	1	11	9	7	2	0	0	2	60	3	0	2	0	7	0	0	9	0	2	0	0	5	15	1	8	0	3	3	321	48
12-5,5	104.80	3.127	1	35	62	2	6	0	31	3	0	7	2	27	0	13	15	10	3	0	0	2	59	0	0	0	0	3	0	0	24	0	0	0	0	8	17	2	12	1	5	3	350	63
12-5,36	105.11	3.137	0	44	51	2	0	1	35	0	0	4	0	16	2	16	10	8	1	0	0	39	19	0	0	0	0	0	0	0	17	0	0	0	1	9	12	0	3	0	7	3	297	50
12-5,80	105.55	3.152	20	35	63	3	0	0	28	2	0	2	3	18	2	11	10	21	1	0	0	12	21	0	0	2	0	1	0	0	22	0	0	0	0	11	18	3	2	0	6	2	315	35
12-5,118	105.93	3.165	32	35	41	0	0	3	28	0	0	3	0	28	0	8	26	1	1	20	0	0	18	2	3	1	0	3	0	0	13	0	0	0	0	5	12	2	6	1	5	1	297	22
12-6,54	106.79	3.186	2	29	42	2	0	2	45	3	0	7	1	37	2	15	16	3	1	0	0	0	23	1	0	6	0	5	0	0	22	0	3	0	0	17	20	2	8	0	9	2	323	52

Table 11 (cont). Planktic foraminifer census data, DSDP Hole 606.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina pseudobesa*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerina decoraperta*	*Globigerina nepenthes*	*Globigerinella aequilateralis*	*Globigerina sp. 1*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globoquadrina venezuelana*	*Globorotalia conomiozea*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia puncticulata*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia pumilio*	*Globorotalia scitula*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (l)*	*Neogloboquadrina atlantica (r)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachy (l)*	*Neogloboquadrina pachy (r)*	"dupac"	*Orbulina universa*	*Sphaeroidinellopsis spp.*	*Turborotalita quinqueloba*	Other	Benthics	Total planktics	Fragments
12-6,86	107.23	3.192	0	35	56	6	0	1	34	2	0	5	2	40	2	9	37	7	5	0	0	3	39	2	0	5	0	6	0	0	17	0	0	0	0	8	10	1	0	0	7	4	339	30
13-1,20	108.45	3.208	1	33	55	2	0	1	64	2	0	5	0	22	1	20	35	1	3	0	0	0	20	0	0	1	0	8	0	0	15	0	3	0	0	8	12	0	14	0	5	1	329	65
13-1,79	109.04	3.217	0	16	64	2	0	2	73	1	0	5	1	15	0	7	30	2	6	0	0	0	46	0	0	0	0	5	0	0	12	0	1	0	0	13	10	4	5	0	9	8	329	90
13-1,119	109.44	3.222	1	14	89	1	1	1	27	1	0	5	11	21	0	12	24	3	2	0	0	0	28	1	0	3	0	6	0	0	25	0	0	0	1	2	8	1	12	0	11	2	311	105
13-2,20	109.95	3.229	0	20	83	2	0	0	51	1	0	5	1	21	1	22	22	6	14	0	0	0	26	0	0	4	0	6	0	0	14	1	2	0	0	9	13	0	10	1	10	3	345	38
13-2,59	110.34	3.234	1	17	95	3	15	0	36	1	0	7	4	24	0	4	22	2	3	0	0	0	38	0	0	1	0	2	0	0	26	0	0	0	0	1	10	0	9	0	4	1	323	55
13-2,110	110.85	3.241	2	33	95	2	0	0	22	0	0	1	0	20	0	6	27	12	19	0	0	0	15	0	0	1	0	13	0	0	13	1	4	0	0	3	9	2	9	0	8	2	315	70
13-3,20	111.45	3.250	1	13	92	0	0	1	52	2	0	2	7	13	0	6	29	2	8	0	0	0	16	0	0	2	2	4	0	0	15	1	3	0	0	1	18	1	9	0	3	0	301	45
13-3,80	112.05	3.258	13	20	75	3	1	0	32	0	0	3	2	18	0	4	14	0	6	10	0	0	0	0	0	0	13	0	2	0	28	1	2	0	0	8	18	0	12	0	9	2	294	80
13-3,110	112.35	3.262	0	14	83	0	1	2	27	0	0	3	3	19	0	14	28	5	8	0	0	0	15	0	0	4	2	2	0	0	33	0	7	0	0	4	21	1	5	1	7	2	309	90
13-4,20	113	3.270	3	26	100	0	2	1	40	2	0	6	3	22	2	8	23	2	11	0	0	1	10	0	0	1	0	6	0	0	21	0	0	0	0	2	8	0	13	1	9	0	323	57
13-4,81	113.58	3.278	1	19	91	0	5	1	48	5	0	6	3	25	1	15	14	5	24	0	0	1	6	0	0	1	4	3	0	0	26	0	1	0	0	2	8	0	8	0	9	4	332	80
13-4,119	113.94	3.284	0	29	83	1	2	1	59	0	0	5	1	15	1	12	23	1	13	0	0	1	10	0	0	3	0	3	0	0	18	0	0	0	0	3	21	3	4	0	6	1	318	40
13-5,20	114.45	3.291	0	20	72	0	1	0	36	6	0	0	1	15	0	22	33	1	21	0	0	0	15	0	0	6	0	4	0	0	17	0	1	0	0	2	12	0	9	2	5	3	301	31
13-5,80	115.05	3.299	0	21	79	3	11	0	54	4	0	2	1	23	0	9	24	3	13	0	0	0	29	0	0	4	0	1	0	0	15	0	0	0	0	2	17	1	7	0	4	2	327	30
13-5,120	115.45	3.304	2	24	91	1	2	0	38	4	0	2	3	24	1	25	17	0	23	0	0	0	25	0	0	4	0	3	0	0	14	0	0	0	0	0	7	2	8	1	4	0	325	60
13-6,20	115.95	3.311	0	24	75	1	6	1	33	5	0	8	1	36	0	10	15	0	18	0	0	1	45	0	0	3	0	3	0	0	24	0	0	0	0	0	15	1	0	1	3	0	329	60
13-6,80	116.55	3.319	0	31	87	2	1	0	49	1	0	7	0	24	0	14	27	0	21	0	0	0	11	0	0	3	0	0	0	0	15	0	0	0	0	6	12	4	6	1	7	2	309	80
14-1,38	118.13	3.341	27	28	74	3	3	0	56	1	0	1	2	31	1	26	21	2	12	0	0	2	13	6	0	2	0	1	0	0	11	0	0	0	0	4	19	0	1	0	3	1	348	75
14-1,80	118.55	3.347	5	18	78	0	6	1	51	3	0	5	3	8	0	17	12	2	14	0	1	7	12	32	0	1	0	2	0	0	24	0	0	0	0	3	11	1	5	0	4	3	326	55
14-1,119	118.94	3.352	0	5	88	5	6	1	41	1	0	6	0	33	5	26	29	2	18	0	0	13	21	12	0	0	0	1	0	0	5	0	0	0	0	0	4	0	3	1	4	2	328	35
14-2,38	119.83	3.362	1	39	45	0	3	0	44	3	0	10	4	21	0	19	2	1	14	0	0	0	18	26	0	2	0	4	0	0	24	0	0	0	1	5	8	0	9	0	4	3	307	43
14-2,80	120.05	3.367	8	14	60	1	3	0	61	7	0	2	3	23	0	5	14	2	18	0	0	0	37	18	3	0	0	2	0	0	10	0	0	0	0	3	8	1	1	0	5	3	309	43
14-2,119	120.44	3.373	1	17	47	0	6	1	52	2	0	6	3	13	0	10	14	0	28	0	0	0	35	55	0	1	0	1	0	0	21	0	0	0	0	0	1	4	0	0	2	2	320	60
14-3,20	120.95	3.380	1	21	79	4	0	0	22	3	0	2	1	19	0	11	10	1	14	0	0	2	34	42	0	0	0	0	0	0	13	0	0	0	0	4	8	4	8	0	5	0	308	38
14-3,80	121.55	3.388	1	40	79	0	0	0	36	3	0	0	1	18	0	18	8	3	12	0	0	22	0	36	0	0	0	6	0	0	27	0	0	0	0	6	15	1	5	1	5	0	339	42
14-3,120	121.95	3.393	1	44	69	2	4	2	53	3	0	2	2	16	0	9	2	0	3	0	0	30	0	75	0	0	0	1	0	0	14	0	0	0	0	0	8	0	5	0	3	1	348	53
14-4,20	122.46	3.400	3	45	33	3	23	1	37	1	0	1	0	11	1	9	7	5	7	0	0	1	5	56	0	0	0	4	0	0	26	0	0	0	0	1	6	2	9	1	5	3	303	55
14-4,80	123.05	3.410	3	39	71	5	2	0	38	1	0	8	0	10	1	16	10	27	4	0	0	8	3	53	0	0	0	3	0	0	8	0	0	0	0	0	0	0	18	0	4	2	332	40
14-4,119	123.44	3.418	6	38	49	0	5	1	33	2	0	4	2	13	0	32	8	12	6	0	0	2	4	60	0	0	0	2	0	0	11	0	0	0	0	0	5	3	10	1	5	2	314	55
14-5,38	124.13	3.427	6	35	91	1	1	0	40	1	0	6	1	17	0	11	17	10	9	0	0	21	2	42	0	0	0	2	0	1	7	0	0	0	0	2	4	0	6	0	5	2	338	22
14-5,80	124.55	3.434	8	31	63	0	10	0	30	1	0	8	1	11	1	17	6	40	10	0	1	7	0	44	1	0	0	5	0	0	8	0	1	0	0	3	8	5	6	0	4	1	330	45
14-5,119	124.94	3.440	9	19	60	2	0	0	22	5	0	1	1	18	0	24	20	8	14	0	0	1	8	40	2	0	0	4	0	0	11	0	0	0	1	1	11	3	10	1	5	2	301	45
14-6,20	125.45	3.448	2	23	64	1	0	3	29	2	0	7	2	21	0	22	12	6	10	0	0	2	4	51	0	0	0	3	0	0	16	0	0	0	0	1	14	5	8	0	10	1	318	50
14-6,81	128.06	3.458	3	45	19	3	3	0	66	2	0	11	7	9	1	31	24	24	4	0	0	2	4	46	0	0	0	2	0	0	13	0	0	0	0	4	14	4	7	1	1	0	350	95
14-6,119	126.44	3.464	2	30	18	1	5	0	49	3	0	6	0	12	0	19	9	11	14	0	0	0	2	74	1	0	0	0	0	0	21	0	2	0	0	3	10	4	10	0	8	3	314	80
14-6,139	126.64	3.467	7	36	7	0	0	0	45	1	0	3	5	18	1	32	10	21	7	0	0	1	14	87	0	0	0	0	0	0	17	0	0	0	1	2	5	6	7	0	1	4	334	50
15-1,97	128.32	3.493	3	48	24	0	1	0	33	3	1	8	4	10	0	27	8	4	12	0	0	3	7	60	5	3	0	4	0	0	17	1	7	0	0	4	10	4	2	0	7	0	320	45
15-2,98	129.83	3.517		34	19	2	0	1	41	9	0	0	1	16	0	27	19	11	9	0	0	2	16	66	0	0	0	6	0	0	10	0	6	0	0	10	9	0	3	2	5	2	326	55
15-3,98	131.33	3.541	3	68	16	2	0	0	40	5	0	5	3	18	0	19	2	11	10	0	1	0	9	53	8	0	0	3	0	0	19	0	2	0	0	6	17	2	2	2	6	4	332	45
15-4,106	132.83	3.565	1	38	8	2	6	2	30	0	0	6	3	20	1	28	3	5	5	0	31	0	7	43	17	0	0	1	0	0	20	0	0	0	0	3	14	0	6	0	5	4	305	95
15-5,98	134.33	3.569	0	53	5	2	0	1	55	2	0	1	4	11	0	29	1	5	15	0	0	12	7	37	11	1	0	3	0	0	13	0	2	0	1	13	14	2	4	0	5	3	309	30
15-6,98	135.83	3.612	3	43	8	1	1	2	35	3	0	2	3	12	0	17	4	6	21	0	0	1	7	88	37	0	0	0	0	0	15	0	0	0	0	7	11	2	1	0	5	3	335	45
16-1,98	137.93	3.646	0	48	43	1	5	0	57	2	0	9	1	3	0	10	2	0	3	0	0	24	0	39	23	0	0	2	0	0	9	0	1	0	0	13	17	1	0	0	4	2	317	50
16-2,98	139.43	3.669	0	43	12	7	1	1	33	5	0	5	4	9	0	25	7	7	8	0	0	3	38	24	32	0	0	3	0	0	15	0	1	0	0	4	6	1	7	1	3	1	305	80
16-3,98	140.93	3.693	0	36	4	3	0	1	30	7	0	3	1	6	0	21	9	0	8	0	0	2	0	64	77	0	0	3	0	0	10	0	0	0	0	6	9	6	1	0	6	5	313	40
18-4,98	142.43	3.717	0	22	9	1	0	0	33	4	0	6	2	14	0	20	2	1	6	0	0	0	8	68	56	2	0	3	0	0	15	0	0	0	1	12	12	4	3	0	5	3	307	40
16-5,98	143.93	3.741	0	43	29	5	5	0	57	4	0	7	1	3	0	10	2	1	6	0	0	16	0	44	29	0	0	8	0	0	17	0	2	0	0	7	6	2	0	1	5	6	310	50
17-1,98	147.53	3.798	0	33	45	3	3	0	39	6	0	2	2	6	0	19	2	19	0	0	0	2	4	41	36	0	0	3	0	0	18	0	8	0	0	8	10	1	1	0	3	0	314	60
17-2,97	149.03	3.822	2	16	43	3	1	1	88	0	0	7	2	9	0	13	6	3	8	0	0	4	0	78	39	0	0	3	0	0	7	0	2	0	1	13	20	1	1	0	4	1	355	30
17-3,97	150.52	3.845	2	53	39	3	2	0	45	4	0	2	7	9	0	16	3	12	4	0	0	36	0	39	0	0	0	1	0	0	17	0	2	0	0	5	8	2	0	0	6	2	317	20
17-4,97	152.02	3.869	1	55	45	4	4	0	43	4	0	0	8	5	0	21	1	2	1	0	0	14	0	47	1	6	0	5	0	0	20	0	1	0	0	11	13	1	0	0	3	2	314	20
17-5,97	153.52	3.892	0	48	13	0	7	0	57	5	0	0	5	11	0	29	1	0	3	0	0	17	0	26	46	0	0	0	0	0	23	0	0	0	0	5	11	6	3	1	6	4	323	25
17-6,97	155.02	3.915	1	38	5	1	8	0	28	1	0	4	1	13	0	32	0	18	7	0	0	7	0	59	48	6	0	7	0	0	9	0	0	0	0	6	13	1	1	0	5	0	319	25
18-1,98	157.13	3.947	1	31	27	4	1	1	24	7	0	5	1	11	0	26	2	1	2	0	0	9	0	71	38	0	0	1	0	0	21	1	1	0	2	13	16	4	3	0	2	1	326	20
18-2,98	158.63	3.970	0	25	36	2	0	1	25	7	0	0	0	6	0	25	0	1	3	0	0	7	0	32	38	0	0	2	0	0	19	0	8	0	3	13	33	4	0	0	2	1	292	30
18-3,111	160.26	3.995	0	42	48	1	1	1	22	1	0	2	1	6	0	18	0	0	6	0	0	15	0	53	28	0	0	5	0	0	19	0	5	0	2	10	25	3	0	0	5	2	319	40
18-4,98	161.63	4.015	1	34	48	2	1	0	42	2	0	4	2	11	0	23	0	3	4	0	0	43	0	71	9	0	0	2	0	0	2	0	0	0	2	5	10	8	0	0	2	0	331	45
18-5,98	163.13	4.038	1	17	39	2	2	0	47	2	0	5	0	1	0	15	0	0	0	0	0	11	0	93	15	0	0	5	0	0	9	0	1	0	1	13	18	3	0	0	4	2	304	35
18-6,98	164.63	4.061	0	31	55	1	3	0	27	4	0	1	0	8	0	25	1	14	5	0	0	32	0	35	14	1	0	1	0	0	7	0	2	0	0	9	14	3	1	0	6	2	298	40

Table 12. Planktic foraminifer census data, DSDP Hole 607.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	"dupac"	*Neogloboquadrina spp.*	*Orbulina universa*	*Sphaeroidinellopsis spp.*	*Turborotalita quinqueloba*	Other	Benthics	Total Planktics	Fragments
11-5, 104	99.44	2.206	0	58	1	14	3	28	6	45	0	2	26	2	33	14	0	3	0	8	4	1	0	8	5	14	14	19	5	19	11	0	343	293
12-1, 19	102.19	2.276	0	50	2	5	6	47	3	42	0	4	28	1	8	8	0	4	20	10	3	2	0	15	3	6		0	3	24	12	5	306	77
14-3, 48	124.68	2.850	0	60	1	33	0	28	2	39	0	10	16	4	24	4	2	36	7	24	0	0	0	1	0	3	0	0	0	3	13	2	310	82
14-3, 88	125.08	2.860	1	52	1	18	5	33	6	60	0	7	15	6	35	11	1	32	8	13	2	0	0	3	0	15	0	1	0	10	14	0	349	213
14-4, 16	125.49	2.871	0	45	4	21	0	25	14	36	0	1	8	4	55	10	0	37	3	30	2	0	0	4	1	9	0	4	0	0	13	0	326	110
14-3, 129	125.86	2.880	0	47	3	24	1	21	10	23	0	6	18	14	18	3	0	55	6	23	3	0	0	5	3	12	0	4	0	0	12	2	311	41
14-4, 55	126.25	2.890	0	54	5	10	3	19	12	19	0	1	18	4	18	9	0	87	1	1	11	0	0	2	2	12	0	5	0	0	19	0	312	87
14-4, 94	126.64	2.900	0	41	3	10	0	20	9	24	0	2	13	2	16	3	0	111	2	17	0	1	0	0	1	7	5	3	0	0	18	1	308	90
14-4, 135	127.05	2.910	0	83	9	14	3	26	12	49	0	8	18	4	25	11	0	10	5	5	3	0	0	0	0	6	5	3	0	5	12	2	316	110
14-5, 73	127.43	2.920	0	59	7	3	8	22	9	53	0	3	10	3	22	7	0	38	5	16	2	0	0	0	1	12	29	4	0	0	10	2	323	89
14-5, 23	127.93	2.931	0	60	3	8	0	30	11	30	0	4	20	1	27	18	0	60	11	22	1	0	0	0	2	9	0	0	0	1	13	1	331	150
14-5, 126	128.46	2.942	0	62	8	13	2	45	22	38	0	6	14	4	29	13	0	42	4	13	0	0	0	3	1	12	12	1	2	0	17	2	363	163
14-6, 24	128.94	2.952	0	75	0	3	1	24	12	47	1	11	18	6	35	13	0	9	9	10	0	0	0	1	0	15	21	5	1	0	13	0	330	232
14-6, 84	129.54	2.965	0	46	5	3	5	26	15	34	0	5	16	12	43	14	0	10	2	9	0	0	0	0	0	42	46	9	0	0	6	2	348	170
14-6, 120	129.90	2.972	0	44	2	1	0	29	9	21	0	3	12	5	37	12	4	39	4	12	11	1	0	3	0	49	38	5	0	0	9	1	350	170
14-7, 9	130.29	2.981	0	63	5	4	0	32	7	17	0	1	9	1	37	4	0	31	4	15	9	2	0	2	0	39	28	0	0	0	17	2	327	143
15-1, 24	131.04	2.998	0	45	0	2	0	20	1	43	0	0	3	1	27	10	0	47	7	15	6	2	0	8	1	26	25	5	0	0	10	2	304	177
15-2, 19	132.49	3.036	1	69	3	6	3	27	5	41	1	6	13	4	34	5	1	41	7	9	10	1	0	0	0	17	14	3	0	0	17	3	338	204
15-3, 13	133.93	3.074	0	78	2	2	2	35	5	50	0	2	10	6	30	6	0	25	8	5	2	0	0	3	0	7	20	1	0	0	13	0	312	198
15-4, 24	135.54	3.111	15	85	1	8	3	18	5	33	0	1	15	2	13	0	0	90	4	5	2	1	0	4	0	24	27	2	1	0	10	0	369	157
15-5, 34	137.14	3.148	1	68	2	8	3	44	2	27	0	4	6	4	18	11	11	2	7	5	5	4	0	17	2	45	30	0	7	0	4	3	337	118
15-5, 43	138.73	3.187	19	91	2	0	4	27	3	32	0	7	7	2	3	6	0	7	3	9	1	2	0	10	0	32	38	0	0	0	16	2	321	110
15-7, 21	140.01	3.229	3	76	1	7	4	30	8	69	0	4	22	5	1	9	0	4	1	18	0	5	0	1	0	24	29	3	0	0	14	2	338	97
16-2, 12	142.02	3.296	0	103	0	9	2	66	3	30	0	7	18	3	0	2	0	5	4	8	0	0	0	1	0	26	34	2	1	0	17	5	341	111
16-3, 21	143.61	3.349	1	106	3	6	5	37	0	41	0	3	28	7	3	1	0	3	2	8	0	0	0	5	0	17	32	0	0	0	19	6	327	113
16-4, 23	145.13	3.400	0	90	4	4	3	44	0	48	0	7	26	2	1	5	2	4	7	11	0	3	0	6	0	26	34	1	0	0	15	4	343	171
16-4, 58	145.48	3.405	0	106	6	13	1	43	2	36	0	5	20	0	15	11	0	1	1	15	0	4	0	2	0	10	18	0	0	4	4	0	317	121
16-4, 100	145.90	3.412	0	71	3	5	4	39	4	61	0	10	14	1	19	2	0	1	0	16	0	3	1	2	0	25	24	0	0	0	15	2	320	109
16-4, 127	146.17	3.416	0	94	4	4	16	39	9	37	0	4	15	1	26	4	1	1	4	10	0	0	4	1	0	9	13	0	0	0	11	1	307	65
18-3, 115	163.75	3.689	0	62	11	0	0	38	5	29	0	3	14	3	0	12	2	89	2	23	0	0	0	16	14	0	23	2	0	0	7	4	355	140
18-5, 126	163.86	3.691	0	72	8	0	0	43	2	13	0	14	14	0	0	17	6	49	4	18	0	0	0	5	3	16	17	0	0	0	12	4	313	127

Table 13. Planktic foraminifer census data, ODP Hole 608.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina conglomerata*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina pseudobesa*	*Globigerina sp. 1.*	*Globigerina woodi*	*Globigerinella siphonifera*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globorotalia crassaformis*	*Globorotalia crassula*	*Globorotalia hirsuta*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina spp.*	"dupac"	*Orbulina universa*	*Sphaeroidenellopsis spp.*	*Turborotalita quinqueloba*	Other	Benthics	Total planktics	Fragments
10-6, 61	91.91	2.838	0	24	0	0	40	0	0	2	0	10	9	27	0	1	2	0	0	48	0	0	0	56	3	0	0	0	16	0	4	0	1	10	3	47	7	0	1	0	2	311	57
10-6, 76	92.06	2.846	0	31	0	0	29	0	2	2	0	13	5	17	0	1	2	2	0	22	0	1	0	79	2	0	0	0	18	3	18	0	1	5	10	36	2	0	2	3	1	306	49
10-6, 91	92.21	2.855	0	25	0	1	58	4	0	6	0	13	10	16	0	4	7	1	0	30	0	0	0	44	3	1	0	1	12	1	16	0	0	2	20	29	4	0	1	5	0	312	45
10-6, 106	92.36	2.863	0	14	0	1	44	9	0	5	0	11	5	22	0	2	9	2	2	21	0	1	0	58	5	0	0	3	25	3	15	0	0	6	9	37	5	0	3	5	2	322	55
10-6, 121	92.51	2.872	0	19	0	0	18	4	1	5	0	20	9	21	0	1	0	1	1	38	0	6	0	50	4	9	0	2	17	0	29	0	3	14	8	28	1	0	5	0	1	314	80
10-6, 136	92.68	2.881	0	9	0	20	29	1	0	3	0	0	3	17	0	1	3	1	1	59	0	3	0	60	5	9	0	1	35	1	17	0	2	4	12	22	6	0	3	2	0	329	45
10-7, 1	92.81	2.889	0	19	0	20	25	7	0	1	0	0	7	32	0	4	4	5	0	49	0	9	0	61	6	15	0	0	18	2	3	0	2	2	2	11	10	0	0	2	5	316	70
10-7, 11	92.91	2.895	0	23	1	2	17	0	1	2	1	13	5	26	0	8	3	10	0	69	0	4	0	82	8	7	0	2	7	0	1	0	0	0	1	7	3	0	0	3	4	306	70
11-1, 103	94.43	2.930	20	31	0	0	39	0	0	2	3	26	5	22	0	0	2	3	0	9	0	0	0	84	4	0	0	0	16	0	1	0	1	2	3	30	2	2	5	4	1	316	55
11-1, 141	94.81	2.933	0	26	1	0	45	2	2	1	0	32	6	19	0	1	6	5	0	17	0	0	0	61	6	0	0	0	18	2	2	1	1	12	8	32	3	0	0	5	6	314	70
11-2, 31	95.21	2.937	1	45	0	0	26	3	1	1	0	17	6	10	0	8	7	9	0	26	0	4	0	58	3	0	0	0	18	1	1	0	1	9	6	39	1	0	1	4	7	306	75
11-2, 71	95.61	2.940	3	21	12	1	57	9	0	0	0	26	1	15	0	4	9	0	0	0	0	36	0	52	8	0	0	0	13	0	1	0	2	19	12	26	1	0	3	2	0	333	70
11-2, 111	96.01	2.944	0	17	0	1	39	7	1	3	0	10	7	9	0	0	1	0	0	0	0	37	0	92	2	0	0	0	16	0	1	0	1	1	6	48	9	1	2	6	2	317	75
11-2, 148	96.38	2.947	1	25	0	2	16	5	1	4	0	22	12	17	0	1	5	3	0	4	0	55	0	0	5	0	0	0	56	6	3	0	2	7	22	36	5	1	0	2	4	318	130
11-3, 39	96.79	2.951	1	35	0	5	16	8	0	2	0	38	5	26	0	7	6	6	1	22	0	24	0	0	5	0	0	0	35	22	1	0	0	9	17	15	0	1	1	3	5	311	65
11-3, 81	97.21	2.955	9	29	0	4	35	1	1	1	0	25	9	17	0	3	7	2	1	0	0	43	0	0	5	0	0	0	45	20	0	0	4	11	14	27	1	0	0	4	8	318	60
11-3, 124	97.64	2.959	0	36	0	0	28	0	1	0	3	59	8	19	0	2	1	2	1	0	0	23	1	0	5	1	0	2	49	13	4	0	1	1	6	47	6	6	1	1	3	327	55
11-4, 11	98.01	2.962	0	42	0	1	32	5	0	1	0	29	7	41	0	8	37	4	1	0	0	19	0	0	16	0	0	0	45	18	3	0	0	16	1	30	2	0	1	3	7	362	80
11-4, 51	98.41	2.966	0	33	0	2	47	10	2	3	0	55	16	24	0	1	3	0	0	0	0	33	0	0	9	0	0	0	13	33	8	0	0	20	11	20	4	3	1	5	6	356	125
11-4, 91	98.81	2,969	0	27	0	2	18	5	2	6	2	78	17	18	0	4	22	0	0	0	0	31	2	0	7	0	2	0	20	13	5	0	0	5	4	16	2	5	1	4	5	318	95
11-4, 131	99.21	2.973	0	36	0	0	38	1	2	6	0	34	16	27	0	2	9	1	1	0	0	34	0	0	12	0	0	0	40	1	4	0	0	2	11	14	5	6	0	4	3	306	85
11-5, 21	99.61	2.976	0	25	0	3	34	1	0	3	0	88	11	14	0	8	1	5	0	0	0	22	0	0	5	0	0	0	35	21	39	0	1	4	0	16	2	0	0	3	3	341	65
11-5, 61	100	2.980	0	17	0	0	105	17	1	0	0	37	15	9	0	6	26	1	0	0	0	19	0	0	6	0	0	0	28	0	23	0	1	0	3	0	3	0	0	3	6	320	105
11-5, 103	100.4	2.984	0	17	0	0	74	2	0	5	2	67	5	10	0	0	14	1	2	0	0	6	0	0	3	0	0	0	29	2	21	0	1	4	8	14	3	16	1	2	3	309	90
11-5, 141	100.8	2.987	2	26	2	0	48	9	0	2	0	60	0	17	0	2	6	0	0	0	0	13	0	0	12	1	0	0	18	2	49	0	2	7	14	22	3	0	2	6	5	325	70
11-6, 31	101.2	2.992	0	42	0	4	88	4	1	6	1	28	8	15	0	5	11	3	5	0	0	8	0	0	3	0	0	5	27	3	20	0	0	7	9	11	9	4	1	4	5	308	84
11-6, 52	101.4	2.999	0	33	0	4	63	6	0	1	1	36	10	21	0	2	23	1	2	1	0	15	0	0	0	0	1	5	34	3	16	3	1	1	8	11	6	1	2	5	1	316	95
11-8, 113	102	3.020	0	24	0	1	55	4	0	6	0	85	7	31	0	0	10	0	2	0	0	0	0	0	5	0	0	0	35	6	18	0	0	9	6	19	4	4	0	5	3	336	80
11-6, 131	102.2	3.026	0	25	0	0	24	8	1	5	0	80	8	30	0	5	5	0	3	0	0	4	0	0	4	2	0	0	46	5	7	0	2	9	1	17	8	3	2	3	2	307	70
12-1, 27	103.3	3.061	0	37	0	0	30	3	2	4	0	60	8	30	1	6	17	0	3	61	0	2	0	6	0	3	0	0	16	1	2	0	0	5	3	10	15	8	1	2	0	336	97
12-1, 66	103.7	3.074	1	43	0	13	44	0	3	3	0	44	2	28	0	2	5	0	2	12	0	11	0	3	0	2	0	0	21	13	7	3	0	16	3	34	8	0	6	7	5	336	63
12-1, 93	103.9	3.083	1	20	1	3	48	5	1	1	0	58	13	23	0	1	7	0	4	22	0	4	0	22	2	2	0	0	18	0	7	0	1	14	3	26	6	4	2	4	2	323	32
12-1, 141	104.4	3.095	0	28	0	7	69	14	1	0	1	24	7	17	0	21	14	0	5	0	0	8	0	22	2	0	0	1	19	7	7	0	0	6	9	10	6	1	4	2	1	312	25
12-2, 31	104.8	3.105	0	44	0	5	40	4	1	2	1	34	13	25	0	0	0	0	4	1	0	20	0	36	5	0	0	0	19	5	9	0	2	8	10	21	8	0	1	6	6	324	70
12-2, 71	105.2	3.115	0	25	0	1	33	5	0	0	2	20	11	22	0	3	5	0	2	1	0	19	0	91	4	0	0	0	16	6	13	0	2	5	8	11	4	0	1	7	1	317	56
12-2, 111	105.6	3.126	0	47	0	6	69	0	2	0	0	41	0	20	1	0	15	0	0	4	0	26	0	44	0	2	0	0	13	0	0	0	0	4	0	10	5	7	0	4	0	320	55
12-3, 1	106	3.136	0	43	0	8	45	1	1	1	0	48	0	24	0	0	4	0	4	42	4	0	0	52	1	0	0	2	23	3	2	0	0	13	4	12	2	1	3	8	4	351	39
12-3, 41	106.4	3.146	0	43	0	3	38	18	0	0	0	32	2	7	0	0	1	0	1	5	0	1	0	133	0	1	0	0	12	3	0	0	0	1	0	1	3	0	1	5	9	311	63
12-3, 81	108.8	3.156	0	49	0	5	83	21	0	5	0	33	1	19	0	3	3	12	0	0	0	3	0	89	3	0	0	5	4	2	1	0	0	0	0	3	4	3	1	4	2	336	47

Table 14. Planktic foraminifer census data, ODP Hole 609B.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina quinqueloba*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	"dupac"	*Orbulina universa*	*Sphaeroidinellopsis spp.*	Other	Benthics	Total planktics	Fragments
17 - 6 , 75	151.75	2.1769	0	8	0	0	40	0	0	0	0	2	0	1	0	0	0	0	0	3	2	0	137	15	18	10	11	1	30	1	1	21	8	301	77
20 - 1 , 16	172.46	2.4923	1	26	0	14	3	0	1	2	0	14	0	0	1	0	16	0	0	21	4	0	38	3	134	0	3	1	10	0	0	19	1	311	146
23 - 3 , 29	204.39	2.8561	0	12	0	6	0	0	0	14	1	13	0	0	2	1	9	2	0	33	7	0	107	9	20	26	2	1	18	8	0	30	0	321	140
23 - 3 , 118	205.28	2.8662	0	15	0	3	2	0	0	3	0	7	0	0	0	0	11	0	0	182	4	0	2	4	31	1	0	4	0	0	1	22	3	292	427
23 - 4 , 57	206.17	2.8764	0	9	0	4	2	0	0	1	1	14	0	0	0	0	30	1	0	168	2	0	8	1	47	0	0	3	0	7	0	22	5	320	210
23 - 4 , 135	206.95	2.8853	0	20	0	0	6	0	1	3	0	25	0	0	0	1	72	4	0	76	2	2	5	7	85	0	3	4	1	2	0	21	8	340	268
23 - 5 , 86	207.96	2.8968	0	14	0	2	0	1	8	6	1	18	0	1	1	0	10	0	0	104	2	1	117	2	19	0	1	1	7	2	0	8	3	326	86
23 - 6 , 25	208.85	2.9069	0	17	0	0	3	0	4	3	1	22	0	0	2	0	16	0	0	80	4	0	77	7	30	0	2	1	6	1	0	21	3	297	216
23 - 6 , 115	209.75	2.9172	0	19	0	2	3	0	0	5	0	11	0	0	0	0	9	0	0	87	1	0	123	4	37	7	0	2	6	4	0	15	3	335	100
23 - 7 , 36	210.46	2.9246	0	10	0	1	2	0	0	1	0	12	0	0	0	0	12	1	0	108	5	0	42	3	72	19	0	1	8	2	0	11	2	310	107
24 - 1 , 85	211.55	2.9355	0	5	0	1	2	0	1	3	0	23	0	0	0	1	28	3	0	148	2	0	44	1	26	6	0	4	0	0	0	11	4	309	130
24 - 2 , 6	212.26	2.9426	0	27	0	1	6	0	8	8	3	37	0	0	0	0	21	2	0	84	5	0	99	5	18	14	5	2	13	3	0	14	16	375	173
24 - 2 , 116	213.36	2.9536	0	19	0	7	2	0	0	10	0	42	0	0	1	0	7	2	0	127	3	3	90	3	15	5	3	1	5	1	0	12	2	358	185
24 - 3 , 56	214.26	2.9626	0	57	0	4	0	2	9	5	1	38	0	1	4	0	43	0	0	1	9	0	117	1	14	10	6	2	0	1	1	26	0	352	155
24 - 3 , 135	215.05	2.9705	0	10	0	1	2	0	11	17	2	26	0	0	0	0	44	12	0	3	1	0	107	2	11	30	0	3	3	3	0	22	1	310	80
24 - 4 , 87	216.07	2.9807	0	17	0	2	0	0	5	11	0	28	0	0	1	0	29	4	0	1	1	0	158	2	10	21	1	0	6	6	0	15	2	318	108
24 - 6 , 16	218.36	3.0011	0	6	0	6	3	0	0	11	0	21	0	0	0	0	1	0	0	51	3	0	124	7	59	8	1	1	1	0	0	17	4	320	202
24 - 6 , 127	219.47	3.0102	0	19	0	6	8	0	9	1	1	20	0	0	1	0	2	0	0	90	4	0	73	7	103	12	1	3	8	2	0	11	6	381	74
25 - 1 , 38	220.68	3.0201	0	27	0	8	3	0	2	13	1	34	0	2	0	0	61	0	1	117	11	0	28	3	124	0	0	3	0	6	0	14	13	458	170
25 - 2 , 16	221.96	3.0306	0	8	0	3	0	0	1	2	0	25	0	0	1	0	26	0	0	160	3	0	46	1	5	0	2	3	0	4	0	8	2	298	34
25 - 2 , 135	223.15	3.0403	1	2	0	5	12	0	0	5	0	22	1	0	0	1	19	1	0	76	1	1	103	3	25	0	1	1	0	2	0	5	13	287	200
25 - 3 , 108	224.38	3.0504	0	7	0	3	0	0	0	10	1	57	0	0	0	1	34	2	0	147	1	0	0	4	12	0	0	1	31	0	0	6	4	317	170
25 - 4 , 81	225.61	3.0604	1	21	0	4	1	0	0	1	2	36	0	0	1	0	0	0	0	90	7	0	85	2	68	0	0	2	0	0	0	13	7	334	188
25 - 5 , 55	226.85	3.0706	0	8	0	1	0	0	1	5	0	23	0	0	0	0	23	0	0	63	0	0	137	1	12	1	2	2	8	1	0	17	3	305	139
25 - 6 , 28	228.05	3.0806	0	16	0	7	5	0	1	2	0	25	0	0	0	0	30	0	0	99	4	0	99	5	15	3	0	4	1	0	0	8	2	324	1
25 - 6 , 95	228.75	3.0890	0	32	0	2	2	0	3	7	0	45	0	0	0	0	78	0	0	12	10	0	134	7	27	0	0	3	2	3	0	7	6	374	132
25 - 7 , 22	229.52	3.0983	0	34	0	9	4	0	3	1	0	36	0	0	1	1	31	0	0	89	9	0	92	6	18	0	1	3	1	1	0	8	4	348	48
26 - 1 , 16	230.06	3.1048	2	12	0	3	1	0	5	4	1	34	0	0	0	0	3	0	0	108	7	0	123	6	24	0	1	2	1	9	0	3	2	349	300
26 - 1 , 84	230.74	3.1130	0	24	0	1	1	0	2	2	0	21	0	0	0	0	10	0	0	202	4	0	11	3	23	1	0	5	0	7	0	8	0	325	138
26 - 1 , 136	231.26	3.1193	0	22	0	8	3	0	1	0	0	43	0	0	0	0	24	0	0	104	6	0	96	8	30	0	5	4	0	3	0	3	2	360	225
26 - 2 , 65	232.05	3.1288	0	8	0	1	2	0	5	7	0	27	0	0	0	0	19	0	0	106	4	0	155	14	21	0	0	0	0	7	0	15	1	391	400
26 - 2 , 130	232.70	3.1366	0	22	0	4	6	0	5	1	0	37	0	2	0	0	9	0	0	53	5	0	136	9	12	0	6	3	7	2	0	6	3	325	0
28 - 6 , 134	257.94	3.7301	0	14	2	0	1	0	0	17	0	20	0	2	0	0	9	0	0	116	11	0	57	9	38	0	1	1	1	23	0	15	4	337	175
30 - 1 , 16	268.46	4.0534	0	16	0	0	3	0	1	22	0	27	0	0	0	0	6	0	0	117	2	0	89	18	32	6	0	2	0	2	0	19	1	362	225

Table 15. Planktic foraminifer census data, ODP Hole 610A.

SAMPLE	DEPTH	AGE	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia conomiozea*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia puncticulata*	*Globorotalia quinqueloba*	*Globorotalia scitula*	*Globorotalia tumida*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	"dupac"	*Orbulina universa*	*Sphaeroidinelopsis spp.*	Other	Total planktics	Fragments
13-1, 50	115.10	2.219	23	1	2	0	0	2	15	1	0	0	0	3	0	0	0	2	2	0	66	141	11	2	11	2	17	7	0	20	328	17
13-3, 126	118.86	2.291	19	0	0	0	5	0	6	0	0	0	0	4	0	0	0	0	3	0	65	140	20	2	4	0	17	1	0	25	311	46
16-4, 39	148.29	2.851	39	0	5	0	1	3	30	0	1	0	0	24	0	0	55	1	0	0	2	5	129	0	0	1	6	1	0	13	316	61
16-4, 95	148.85	2.862	14	0	0	0	4	1	18	1	0	0	0	2	0	0	100	4	6	0	47	82	42	0	0	0	9	0	0	17	347	32
16-5, 18	149.58	2.876	22	0	3	0	0	3	19	0	0	0	0	8	0	0	135	2	0	0	8	23	87	0	0	3	1	1	0	16	331	30
16-5, 56	149.96	2.883	27	0	2	0	0	1	26	0	0	0	0	4	0	0	45	0	0	0	64	43	85	2	0	2	9	0	0	16	326	49
16-5, 111	150.51	2.893	14	0	1	0	0	0	32	0	0	0	0	4	0	0	94	0	1	0	30	19	120	2	1	0	2	2	0	28	350	75
16-6, 18	151.08	2.903	16	1	2	0	1	1	27	0	0	0	0	6	0	0	41	2	1	0	60	47	83	3	0	1	6	0	0	15	313	41
16-6, 72	151.65	2.915	4	0	1	0	2	0	35	0	0	0	0	12	0	1	68	0	6	0	66	67	27	3	0	4	6	0	0	8	310	28
16-CC, 12	152.52	2.933	10	0	4	0	3	1	20	0	0	0	0	48	0	0	1	4	4	0	68	62	63	0	3	3	3	1	0	11	309	35
17-1, 24	153.24	2.952	13	0	2	0	9	0	50	0	0	0	0	42	0	0	4	8	1	0	83	64	28	0	2	0	4	0	0	5	315	43
17-1, 60	153.60	2.961	14	0	1	0	9	0	54	0	0	0	0	26	0	0	4	7	1	0	11	118	35	0	0	0	4	0	0	22	306	25
17-1, 95	153.95	2.970	18	0	2	0	4	0	29	0	0	0	0	21	0	0	20	1	2	0	50	109	31	0	1	1	9	5	0	20	323	25
17-1, 128	154.28	2.978	9	0	0	9	5	0	23	0	0	0	4	22	0	0	84	0	3	0	55	59	41	0	0	1	3	5	0	10	333	16
17-2, 17	154.67	2.988	11	0	2	5	0	1	33	0	0	1	1	22	41	0	56	2	5	0	32	122	27	0	0	1	1	2	0	12	377	21
17-2, 42	154.92	2.995	10	0	0	6	0	0	35	0	0	0	0	11	2	2	110	0	3	0	10	73	47	0	0	1	1	0	0	22	333	22
17-2, 68	155.18	3.003	1	0	0	5	1	0	10	0	0	0	1	7	0	0	116	3	3	0	15	19	127	0	0	0	0	0	0	13	321	77
17-2, 100	155.50	3.013	33	0	0	3	2	0	19	0	0	0	1	22	1	0	74	3	1	0	24	33	114	0	0	0	1	1	0	21	353	36
17-2, 130	155.80	3.022	5	0	0	0	2	0	27	0	0	0	3	49	0	2	71	6	3	0	21	61	57	0	0	1	3	2	0	16	329	66
17-3, 19	156.19	3.033	29	0	9	0	6	3	35	0	2	0	0	28	0	3	52	7	0	0	52	53	0	0	3	1	12	3	0	10	308	63
17-3, 36	156.36	3.038	22	0	4	3	13	0	27	0	0	0	0	13	0	2	131	7	0	0	50	28	0	0	0	0	9	3	0	14	326	49
17-3, 64	156.64	3.047	18	0	12	7	5	3	32	0	0	0	0	26	0	7	79	9	0	0	33	79	0	6	4	0	4	1	1	11	337	80
17-3, 94	156.94	3.056	15	0	8	7	5	0	6	2	0	0	0	23	0	3	80	3	0	0	86	57	0	7	2	0	17	2	0	14	337	126
17-3, 123	157.23	3.064		0		0	4	3	13	0	1	0	0	29	0	0	119	3	0	0	65	59	0	0	3	2	7	1	0	19	328	88
17-4, 16	157.66	3.077	14	1	2	1	2	4	25	0	0	0	0	6	0	1	139	1	0	0	32	63	0	1	1	0	6	0	0	10	309	66
17-4, 33	157.83	3.082	9	0	0	4	1	3	8	0	0	0	0	10	0	0	53	0	2	0	18	49	116	0	2	0	0	3	0	20	298	81
17-4, 59	158.09	3.087	17	0	0	0	4	4	10	0	0	0	0	5	0	0	53	1	2	0	30	77	75	0	1	0	2	1	0	31	313	101
17-4, 87	158.37	3.093	16	0	11	0	0	6	19	0	0	0	0	13	0	0	80	3	0	0	71	41	53	0	2	0	7	0	0	7	329	86
17-4, 117	158.67	3.099	13	0	8	0	1	3	19	0	0	0	0	45	0	0	86	0	2	0	45	20	39	0	1	0	8	1	0	4	295	95
17-4, 143	158.93	3.108	57	0	2	0	0	0	17	0	0	0	0	21	0	0	104	5	1	0	51	31	35	0	0	0	3	1	0	5	333	64
17-5, 23	159.23	3.117	24	0	2	0	0	0	27	0	0	0	0	11	0	0	83	3	2	0	30	38	30	0	3	0	3	1	0	4	261	53
21-5, 106	198.46	4.403	21	0	5	0	5	0	22	0	1	0	0	30	1	0	60	0	0	0	21	41	40	0	0	0	4	8	0	16	275	25
21-6, 52	199.42	4.445	30	0	1	0	9	0	12	0	0	0	0	31	0	0	85	2	4	7	18	30	28	0	1	0	7	0	0	0	265	30

Table 16. Planktic foraminifer census data, ODP Hole 646B.

SAMPLE	DEPTH	AGE	*Globigerina bulloides*	*Globigerina falconensis*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerina decoraperta*	*Globigerinita glutinata*	*Globorotalia crassaformis*	*Globorotalia puncticulata*	*Globorotalia margaritae*	*Globorotalia scitula*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (s)*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina pachyderma (d)*	"dupac"	*Orbulina universa*	*Turborotalita quinqueloba*	Other	Total planktics
29-5,60	271.90	3.207	1	0	0	0	0	0	0	0	0	0	0	369	0	1	1	0	0	0	0	372
29-6,10	272.90	3.217	0	0	0	2	0	0	0	0	0	1	0	312	0	4	0	0	0	0	0	319
29-6,110	273.90	3.226	1	0	2	0	1	0	0	0	0	0	0	287	9	6	0	0	0	1	0	307
30-2,50	277.00	3.254	0	0	0	0	0	0	0	0	0	0	0	298	10	7	0	0	0	0	0	315
30-2,140	277.90	3.255	0	0	0	0	0	0	0	0	0	1	0	182	3	1	0	0	0	0	0	187
33-3,59	307.69	3.610	5	1	0	0	0	0	0	5	0	2	0	225	0	0	0	0	0	0	0	236
33-4,11	308.71	3.624	1	0	0	1	0	0	0	0	0	0	0	11	2	1	0	0	0	0	0	16
33-4,130	309.90	3.641	4	0	1	0	0	0	0	2	0	0	0	40	2	1	0	0	0	1	0	51
33-5,100	311.10	3.656	6	0	0	0	0	0	0	2	0	2	0	279	6	0	1	0	0	2	1	299
33-cc,30	311.90	3.670	0	0	0	0	0	0	0	0	6	1	0	299	9	1	4	0	0	3	2	325
36-2,11	334.71	3.993	0	0	4	0	0	0	0	0	0	0	0	326	6	4	0	0	0	0	0	340
36-2,109	335.69	4.007	0	0	0	0	0	0	0	0	0	1	0	318	5	2	0	0	0	0	0	326
36-3,59	336.69	4.021	5	1	0	0	0	0	0	0	0	0	0	375	4	12	0	0	0	0	0	397
36-4,11	337.71	4.036	10	2	0	0	0	0	0	43	0	7	0	306	3	3	0	0	2	4	0	380
36-4,110	338.70	4.050	29	0	0	1	0	0	0	17	0	2	0	239	16	0	0	0	2	10	0	316
36-5,59	339.69	4.064	32	1	0	0	0	2	0	23	0	3	0	292	10	0	0	0	3	5	3	374
36-6,110	341.70	4.092	0	1	0	0	0	0	0	8	0	3	0	393	7	2	2	0	4	2	0	422
36-7,30	342.40	4.102	1	0	1	0	0	1	0	0	0	0	0	441	6	0	1	0	0	0	0	451
37-1,39	343.19	4.114	0	0	0	0	0	0	0	0	0	0	0	859	4	1	0	0	0	0	0	864
37-1,141	344.21	4.128	48	1	0	1	0	2	0	9	0	1	0	167	8	1	0	0	0	0	3	261
37-2,92	345.22	4.142	77	5	0	1	0	2	0	1	0	0	0	321	3	2	1	0	0	0	1	414
37-3,40	346.20	4.156	2	0	0	0	0	0	0	3	0	0	0	337	6	2	0	0	0	0	1	351
37-3,142	347.22	4.171	0	0	0	0	0	0	0	0	0	0	0	360	10	0	0	0	0	0	0	370
37-4,90	348.20	4.165	0	0	0	0	0	0	0	0	0	0	0	172	6	0	0	0	0	0	0	178
37-5,41	349.21	4.199	7	0	0	0	0	0	0	0	0	26	0	372	4	10	0	0	0	0	0	419
37-5,130	350.10	4.212	5	0	0	0	0	0	0	1	0	6	0	182	5	2	0	0	2	0	1	206
37-6,95	351.25	4.228	3	0	0	0	0	0	0	2	0	19	0	366	4	0	0	0	0	0	0	414
38-1,40	352.80	4.250	13	0	0	0	0	0	0	4	0	3	0	317	5	6	0	0	0	0	0	346
38-1,141	353.81	4.264	9	0	0	0	0	1	0	8	0	4	0	394	5	3	0	0	0	0	1	425
38-3,40	355.80	4.293	14	1	0	2	0	1	0	31	1	2	0	221	4	0	1	0	0	0	2	280
38-3,141	356.81	4.307	24	0	0	0	0	0	0	31	0	3	0	246	6	0	5	4	0	0	0	319
38-5,141	359.81	4.349	0	0	0	0	0	0	0	0	0	7	0	335	3	1	0	0	0	0	0	346
36-6,90	360.60	4.364	3	1	0	0	0	0	0	1	0	7	0	322	7	3	0	0	0	0	3	347
38-7,20	361.60	4.375	2	0	0	0	0	0	0	0	0	4	0	96	1	0	0	0	0	0	0	103
39-1,23	362.23	4.364	5	0	0	0	0	0	0	2	0	1	0	320	5	1	0	0	0	0	2	336
39-1,120	363.20	4.396	28	0	0	0	0	0	0	6	0	7	0	338	3	11	1	0	0	0	0	392
39-2,70	364.20	4.412	34	0	0	0	0	0	0	20	2	3	1	277	13	2	1	0	0	0	2	355
39-3,20	365.20	4.426	7	0	0	0	0	0	0	4	0	12	0	266	7	37	0	0	0	0	2	335
39-3,120	366.20	4.440	3	0	0	0	0	0	0	3	0	6	0	326	4	7	0	1	0	0	1	351
39-4,60	367.30	4.456	5	0	2	0	0	1	0	3	0	11	0	316	6	6	0	0	0	0	1	353
39-5,20	368.20	4.469	41	0	0	0	0	4	0	6	0	8	0	346	3	6	0	0	0	0	1	415
39-5,101	369.01	4.460	2	0	0	0	0	0	0	0	0	8	0	360	0	4	0	0	0	0	4	378
39-6,50	370.00	4.494	2	0	0	0	0	0	0	1	0	3	0	403	1	5	0	0	0	0	6	421
39-7,11	371.11	4.510	6	0	0	0	0	0	0	0	0	12	0	265	4	7	0	0	0	0	0	294
40-1,39	372.09	4.524	24	1	0	0	0	0	0	15	0	26	0	279	5	2	1	0	0	0	0	353
40-1,141	373.11	4.538	10	0	0	0	0	0	0	6	0	24	0	320	9	3	0	0	0	0	1	373
40-2,90	374.10	4.552	4	0	0	0	0	0	0	2	0	10	0	126	3	1	0	0	0	0	1	147
40-3,39	375.09	4.566	23	0	0	0	0	0	0	11	0	20	0	210	7	1	1	0	0	0	1	274
40-3,139	376.09	4.574	0	0	0	0	0	0	0	3	0	6	0	326	5	6	0	0	1	0	0	349
40-4,69	377.09	4.578	0	0	0	0	0	0	0	6	0	5	0	326	7	5	0	0	0	0	0	349
40-5,40	378.10	4.583	3	0	0	0	0	0	0	7	0	9	0	357	2	3	0	0	0	0	2	383
40-5,130	379.00	4.587	0	0	0	0	0	4	0	1	0	2	0	342	1	9	0	0	0	0	0	359
40-6,90	380.10	4.593	3	0	0	0	0	2	0	43	0	1	0	322	5	9	0	1	0	0	0	386
40-7,40	381.10	4.598	15	0	0	0	0	0	0	1	0	6	0	390	1	13	0	1	0	0	0	427
41-2,39	383.19	4.608	56	2	0	0	0	0	1	16	0	7	0	267	3	12	0	0	0	1	0	365
41-2,139	384.19	4.612	10	0	0	0	0	0	0	0	0	3	0	363	3	5	0	0	0	0	0	384
41-3,91	385.21	4.617	18	0	0	1	0	0	0	0	0	6	0	326	22	0	0	0	0	1	0	376
41-4,40	386.20	4.622	0	0	0	0	0	0	0	0	0	0	0	328	4	48	3	0	0	0	1	384
41-4,142	387.22	4.627	1	0	0	0	0	0	0	0	0	1	0	97	1	29	0	0	0	0	2	131
41-5,91	388.21	4.632	4	0	0	0	0	0	0	0	0	2	0	349	4	19	1	0	0	0	0	379
41-6,40	389.20	4.636	3	0	0	0	0	0	1	0	0	1	0	355	5	9	0	1	0	2	1	376
41-6,100	389.60	4.639	0	1	0	1	0	0	0	0	0	0	0	314	1	17	1	0	0	0	0	335
42-1,40	391.40	4.647	15	0	0	0	0	1	0	0	1	5	0	406	0	20	0	0	0	0	0	446
42-1,140	392.40	4.652	15	0	0	0	0	0	0	0	0	1	0	293	2	10	0	0	1	0	2	324
42-2,90	393.40	4.656	11	0	0	0	0	0	0	0	0	3	0	90	7	2	0	0	0	0	2	115
42-3,37	394.37	4.661	18	0	0	0	0	0	0	0	0	3	0	288	9	9	1	2	0	0	1	331
42-4,91	396.41	4.671	15	0	0	0	0	0	0	0	0	2	0	324	6	4	2	0	0	1	0	354
42-5,39	397.39	4.675	30	0	0	0	2	0	0	0	0	2	0	265	6	8	1	1	0	0	0	315
42-5,109	398.09	4.679	15	0	0	0	0	0	0	0	0	0	0	269	0	4	0	0	0	0	0	288
42-6,41	398.91	4.663	6	0	0	0	0	0	0	0	0	0	0	326	2	2	0	0	0	1	1	338
42-6,141	399.91	4.668	12	0	0	0	0	0	0	0	0	0	0	299	4	6	1	0	0	0	1	323
42-7,40	400.40	4.690	3	0	0	0	0	0	0	0	0	0	0	366	1	1	0	0	0	0	0	371

Table 17. Planktic foraminifer census data, ODP Hole 659A.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina pseudobesa*	*Globigerina sp. 1.*	*Globigerina woodi*	*Globigerinella siphonifera*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globoquadrina conglomerata*	*Globoquadrina venezuelana*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia menardii*	*Globorotalia praepumilio*	*Globorotalia punctulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina atlantica (d)*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina spp.*	"dupac"	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	Other	Total planktics	Fragments
10-1,50	84.31	2.900	0	15	21	0	1	0	0	2	0	23	0	35	1	3	15	3	0	0	0	1	3	4	1	87	2	0	0	0	10	0	79	0	0	2	1	0	0	1	310	140
10-1,81	84.61	2.907	0	8	40	0	1	3	0	2	1	24	0	24	1	12	15	1	0	0	0	4	0	8	12	71	3	0	1	2	26	0	64	0	1	1	0	0	0	2	327	0
10-1,111	84.91	2.913	0	14	15	4	0	3	0	1	0	36	2	15	1	16	10	5	0	0	0	0	1	0	0	12	0	0	0	1	39	0	142	0	4	0	0	0	0	1	322	125
10-1,141	85.21	2.919	0	7	25	2	0	0	0	0	0	25	1	18	0	4	15	4	0	0	0	0	2	6	0	44	2	0	1	2	50	0	89	0	4	0	0	0	0	2	303	0
10-2,31	85.61	2.928	0	12	28	2	0	0	2	1	0	28	0	22	0	12	18	6	0	0	0	0	1	5	0	65	0	1	0	0	23	0	88	0	0	1	0	0	0	2	317	115
10-2,61	85.91	2.934	0	6	28	0	0	0	1	1	0	24	0	24	1	13	12	8	2	0	0	4	1	20	0	74	0	1	0	1	24	0	72	0	5	0	0	0	1	2	325	0
10-2,96	86.26	2.942	0	0	16	1	2	0	8	3	0	24	0	13	0	19	19	17	6	0	0	5	2	45	0	44	1	0	0	4	4	0	85	0	0	2	0	0	0	2	322	63
10-3,6	86.86	2.954	0	10	14	0	0	0	0	1	0	74	3	31	0	9	30	6	5	0	0	8	0	6	0	61	3	0	0	1	8	0	72	0	5	1	3	0	1	2	354	230
10-3,36	87.16	2.961	0	5	22	2	0	0	0	0	0	62	1	34	1	7	31	3	0	0	0	0	2	7	17	54	1	0	0	1	41	0	49	1	0	3	2	0	0	0	346	155
10-3,66	87.46	2.967	0	8	34	0	0	0	0	0	0	32	0	15	0	9	28	7	1	0	0	0	0	9	5	132	4	0	0	8	23	0	32	0	0	1	0	0	0	1	349	180
10-3,96	87.76	2.974	0	13	30	1	3	0	0	0	0	52	1	25	0	18	20	9	2	0	1	0	0	7	4	62	1	0	0	3	54	0	21	0	0	1	0	0	2	3	333	73
10-4,31	88.61	2.992	0	24	26	0	0	0	0	0	0	55	1	21	5	18	12	5	1	0	0	12	0	4	21	93	1	0	0	6	13	0	19	0	0	4	1	0	2	3	347	87
10-4,61	88.91	2.998	1	2	22	0	0	0	1	1	0	51	1	10	2	12	13	5	1	4	0	16	0	22	19	116	3	0	1	4	15	0	14	0	0	5	0	0	0	0	341	130
10-4,91	89.21	3.030	0	12	15	1	0	0	0	5	0	42	1	18	1	22	15	4	0	1	0	13	0	12	15	127	0	0	0	6	14	0	14	0	0	1	1	0	0	2	342	70
10-4,119	89.49	3.016	0	4	26	0	0	0	0	2	0	17	0	13	1	7	11	8	1	1	0	5	3	11	14	109	1	0	0	9	66	0	18	0	0	0	0	0	0	1	328	130
10-5,61	90.41	3.047	0	7	23	0	1	0	0	3	0	50	1	10	1	13	23	13	0	3	0	6	3	12	24	77	0	0	0	4	40	0	12	0	0	3	0	0	1	1	331	40
10-5,146	91.26	3.075	0	5	22	0	0	0	0	1	0	56	1	8	4	9	16	16	0	0	1	1	1	21	20	72	1	0	0	4	44	0	29	0	2	6	1	0	1	2	344	100
11-1,49	93.79	3.159	0	1	29	0	1	1	0	2	0	46	3	29	2	14	23	9	0	0	0	0	8	21	16	18	2	0	0	7	54	0	39	2	2	6	2	0	3	2	342	126
11-1,131	94.61	3.186	0	0	48	0	0	0	0	0	0	52	2	30	0	19	7	7	0	0	0	0	7	0	12	7	1	1	0	6	20	0	57	2	4	11	0	0	0	1	294	128
11-2,71	95.51	3.216	0	20	12	0	0	1	1	2	0	32	1	32	0	26	22	7	0	3	0	0	2	21	11	4	2	0	9	7	38	0	61	1	10	3	2	11	2	1	344	180
11-3,21	96.51	3.249	0	1	24	0	1	1	0	0	0	52	2	28	0	9	17	5	2	1	0	0	0	20	10	0	4	0	0	5	48	6	62	0	14	5	5	0	1	1	324	205
11-3,111	97.41	3.279	0	14	12	4	0	1	0	2	0	36	1	53	0	23	20	8	1	0	0	0	1	25	5	27	3	6	0	6	46	2	45	0	15	7	0	0	2	2	367	215
11-4,49	98.29	3.303	0	16	23	0	0	0	0	2	0	30	5	28	4	46	28	19	5	3	0	1	1	19	4	29	0	2	0	3	21	0	43	1	6	4	1	0	1	4	349	52
11-4,143	99.23	3.312	0	6	25	2	1	1	0	0	0	55	4	24	1	23	7	8	2	1	0	11	0	24	10	1	2	3	0	3	42	2	41	0	9	8	1	0	2	2	321	155
11-5,81	100.11	3.322	0	17	23	0	1	1	0	0	0	65	2	21	0	34	5	22	1	0	0	10	0	0	16	40	3	0	0	3	30	0	29	0	8	6	0	0	8	2	347	65
11-6,21	101.01	3.331	0	5	32	0	0	0	2	0	0	41	0	22	0	4	6	17	1	0	0	14	1	7	18	95	0	0	0	4	24	0	22	0	4	0	2	26	1	2	350	245
12-1,61	103.41	3.356	0	15	35	0	1	0	1	1	0	31	1	15	0	40	8	10	3	3	0	6	2	16	6	44	0	0	0	6	49	0	35	0	6	1	0	0	1	1	337	120

Table 18. Planktic foraminifer census data, ODP Hole 661A.

SAMPLE	DEPTH	AGE	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia pumilio*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tumida*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina pachyderma (s)*	*Neogloboquadrina spp.*	"dupac"	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	*Turborotalita quinqueloba*	Other	Benthics	Total planktics	Fragments
5H-6-67	38.27	2.85	1	39	1	0	14	0	1	16	6	1	6	49	146	9	0	0	0	0	0	4	0	0	3	15	0	0	6	10	51	0	5	0	17	16	400	1051
6H-2-80	41.91	2.86	0	37	6	0	0	0	0	3	6	2	21	70	60	7	0	0	48	0	15	0	0	0	0	41	2	0	0	12	8	0	5	0	3	3	346	183
6H-5-15	45.75	2.87	31	27	0	0	2	0	0	4	11	2	22	23	53	21	0	0	0	0	20	0	0	4	3	24	1	3	0	23	8	0	4	0	5	6	291	401
6H-5-34	45.94	2.88	22	21	0	0	0	0	5	6	12	0	37	20	37	14	0	0	31	0	35	0	0	8	5	48	0	0	5	4	7	0	0	0	1	0	318	288
6H-5-58	46.18	2.89	34	8	0	0	0	0	8	3	19	1	34	31	48	3	0	0	25	0	12	0	0	24	2	63	0	0	3	12	16	0	0	0	6	3	352	216
6H-5-80	46.40	2.90	19	23	0	15	0	0	9	5	16	0	38	24	12	8	0	0	21	0	18	0	0	11	11	43	0	0	7	4	6	0	0	0	6	1	296	229
6H-5-104	46.64	2.91	32	16	0	0	2	0	13	0	7	3	32	18	58	13	0	0	28	0	25	0	0	6	12	50	0	0	8	11	8	0	0	0	4	3	346	262
6H-5-128	46.88	2.92	20	26	2	0	0	0	1	3	8	0	24	28	69	15	0	0	30	0	28	0	3	14	9	46	0	0	10	4	5	0	0	0	7	2	352	420
6H-6-15	47.25	2.93	19	47	0	1	0	0	6	4	14	1	21	33	46	9	0	0	17	0	21	1	0	13	5	56	0	0	5	4	8	0	0	0	2	0	333	206
6H-6-30	47.40	2.94	28	25	2	0	1	0	3	0	7	0	24	24	66	4	0	0	29	0	16	1	0	9	5	50	0	0	3	5	7	0	0	0	4	1	313	352
6H-6-48	47.58	2.95	29	29	1	0	2	0	5	3	14	0	36	38	31	12	0	0	27	0	14	3	3	10	10	73	0	0	4	10	8	0	0	0	5	2	367	200
6H-6-70	47.80	2.96	3	30	0	0	1	0	2	1	12	0	42	31	62	7	0	0	29	0	14	1	0	9	5	38	1	0	1	8	10	0	0	0	1	2	308	209
6H-6-95	48.05	2.97	7	13	0	0	5	0	3	2	3	0	12	9	139	12	0	0	58	0	0	3	0	6	0	31	0	0	6	1	8	0	0	0	4	9	322	422
6H-6-119	48.29	2.98	16	20	0	0	1	0	0	5	8	0	32	27	71	10	0	0	42	0	2	1	1	18	4	53	0	0	4	6	1	0	1	0	1	1	324	195
6H-6-135	48.45	2.99	14	16	0	0	2	1	0	3	8	1	17	15	99	16	0	0	32	0	0	3	0	9	4	74	0	0	5	1	5	0	3	0	2	5	330	477
6H-7-10	48.70	3.00	13	17	0	0	2	1	17	2	3	1	20	14	55	13	1	0	29	0	0	2	3	0	14	73	0	0	6	1	5	0	18	8	6	8	324	330
7H-1-15	49.25	3.01	31	14	1	0	1	0	17	2	4	1	15	32	72	9	0	0	40	0	5	0	0	6	7	42	0	0	3	2	9	0	36	4	5	4	358	463
7H-1-36	49.46	3.02	24	9	0	0	0	0	4	0	4	0	9	8	90	8	0	0	24	0	0	2	1	1	12	39	0	0	11	1	5	0	47	0	5	29	304	900
7H-1-59	49.69	3.03	26	8	0	0	0	0	14	1	10	0	11	17	51	10	0	1	47	0	0	2	1	4	1	73	0	0	3	2	3	1	29	1	3	3	319	254
7H-1-83	49.93	3.04	25	7	0	0	1	0	7	5	10	0	11	23	52	7	0	0	34	1	0	0	0	3	6	62	0	0	7	1	3	0	43	0	1	2	309	239
7H-1-105	50.15	3.05	33	11	0	0	2	0	8	1	16	0	25	34	57	3	0	3	31	1	3	4	0	0	3	36	0	0	5	1	11	3	15	0	2	2	308	195
7H-1-130	50.40	3.06	41	10	1	0	4	0	11	0	6	3	15	6	43	14	1	0	16	1	5	0	1	1	2	67	0	0	5	2	7	0	31	1	1	9	295	379
7H-2-15	50.75	3.07	35	23	0	0	0	0	7	7	4	1	22	17	67	5	0	0	50	0	4	0	1	5	2	52	0	0	6	2	3	0	18	1	2	0	334	231
7H-2-30	50.90	3.08	32	12	0	0	1	0	10	4	6	0	16	14	33	2	0	0	26	0	4	3	2	5	4	51	0	0	1	0	8	0	21	0	2	2	257	371
7H-2-50	51.10	3.09	0	12	0	0	0	0	13	1	3	0	15	13	56	13	0	0	32	2	8	3	3	0	4	49	0	0	8	3	0	0	32	0	4	0	274	460
7H-2-73	51.33	3.10	32	9	0	0	0	0	27	6	7	1	31	29	61	6	0	4	6	1	15	3	0	0	11	39	0	0	4	0	4	4	24	9	2	0	331	156
7H-2-97	51.57	3.11	40	15	0	0	1	0	9	0	1	0	10	10	65	7	0	2	1	2	25	9	1	1	11	55	0	0	4	1	7	2	19	1	6	4	305	214
7H-2-120	51.80	3.12	22	8	0	0	0	0	18	1	6	0	24	19	55	9	0	2	24	0	16	8	0	0	5	42	0	0	9	1	4	2	19	0	4	3	298	192
7H-2-143	52.03	3.13	21	15	2	0	0	0	24	0	3	0	23	14	39	7	0	1	26	0	6	4	4	0	61	11	0	0	7	4	0	1	11	1	4	3	289	219
7H-3-17	52.27	3.14	19	10	0	0	1	0	8	0	0	1	8	9	56	4	0	1	19	0	2	7	2	0	1	76	0	0	3	0	2	1	57	0	8	49	295	711
7H-3-40	52.50	3.15	49	16	0	0	0	2	3	2	3	0	31	14	50	11	0	0	35	0	0	9	0	0	2	51	0	0	10	3	3	0	15	1	2	4	312	375
7H-3-64	52.74	3.16	0	16	0	0	0	2	18	0	3	0	42	22	44	4	0	1	31	0	1	6	0	0	11	53	0	0	5	1	2	1	22	0	5	2	290	102
7H-5-65	55.75	3.17	30	7	0	0	0	5	3	3	1	1	22	1	59	8	0	0	70	0	0	1	0	0	6	28	0	0	3	1	4	0	42	0	2	4	297	218
8H-1-15	58.75	3.18	21	19	0	0	0	0	23	4	3	0	55	2	30	9	0	0	50	3	6	2	3	0	4	35	0	0	8	6	7	0	17	0	7	0	314	172

Table 19. Planktic foraminifer census data, ODP Hole 667A.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerin altispira*	*Globigerina bulloides*	*Globigerina calida*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina spp.*	"dupac"	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	Other	Benthics	Total planktics	Fragments
5-1,21	30.01	2.280	0	0	8	0	0	1	0	1	1	0	15	3	8	125	94	0	0	0	0	26	0	1	1	0	16	35	0	0	2	0	5	2	0	344	159
5-2,31	31.61	2.344	1	0	14	0	0	0	0	0	3	0	14	1	6	41	62	0	1	0	0	0	12	2	0	0	53	55	3	3	5	6	18	6	18	306	580
5-3,21	33.01	2.401	0	0	3	0	0	0	4	0	12	0	18	1	2	42	122	0	2	3	0	14	2	8	1	6	24	67	0	0	5	0	7	0	2	343	178
5-4,119	35.49	2.532	0	0	17	0	0	0	0	0	25	3	23	1	5	37	7	1	0	4	0	39	3	0	2	0	29	91	4	2	12	0	7	3	2	315	157
5-5,46	36.26	2.573	0	0	17	0	0	0	0	0	11	2	11	0	17	50	68	5	9	2	0	23	3	0	6	4	22	50	1	0	1	0	1	4	0	307	265
6-1,51	39.81	2.761	0	0	18	0	1	0	2	0	43	4	23	2	26	26	27	1	1	0	0	73	0	0	8	5	20	39	3	0	4	0	3	3	3	332	94
6-1,103	40.33	2.789	0	2	25	0	3	0	2	0	32	3	9	1	29	39	35	1	1	1	0	68	3	2	0	0	11	53	0	0	4	0	1	3	1	328	128
6-1,116	40.46	2.796	0	0	8	2	0	0	1	0	14	2	10	5	20	46	33	0	0	3	0	76	4	0	4	1	9	68	0	0	2	0	0	2	3	310	154
6-1,131	40.61	2.804	0	0	12	1	1	0	0	0	15	1	8	0	31	41	80	2	0	0	0	61	5	0	1	0	2	54	0	0	9	0	1	1	2	326	100
6-1,146	40.76	2.812	0	0	5	6	5	0	0	0	24	10	11	2	27	67	29	0	2	1	0	55	4	0	6	0	0	43	0	0	9	0	0	2	0	308	76
6-2,11	40.91	2.820	0	0	20	0	4	0	0	0	15	3	10	4	22	38	31	1	4	2	0	75	9	0	3	0	6	65	0	0	4	0	0	4	0	320	116
6-2,26	41.06	2.828	0	0	17	1	1	0	3	0	4	1	13	2	25	56	71	5	0	2	0	68	0	1	3	1	4	41	0	0	5	0	0	2	0	326	96
6-2,41	41.21	2.836	1	0	21	1	3	3	2	0	4	2	11	9	54	69	47	8	2	2	0	59	8	0	3	0	3	34	2	0	1	0	0	0	1	349	69
6-2,56	41.36	2.844	0	0	32	6	10	3	1	0	9	3	10	0	30	47	34	2	4	5	0	63	1	0	2	0	4	50	0	0	4	0	1	2	1	323	87
6-2,71	41.51	2.852	0	0	20	3	5	0	0	0	5	3	19	0	43	48	30	2	3	3	0	60	3	0	5	2	7	61	0	0	5	0	3	1	0	331	100
6-2,86	41.66	2.860	1	0	25	1	9	0	0	0	5	3	11	2	36	58	41	3	2	3	0	63	9	0	1	0	5	37	0	0	5	0	7	1	1	328	77
6-2,103	41.83	2.869	0	0	4	3	10	0	0	0	30	1	17	4	37	52	40	2	3	2	0	60	7	1	2	1	2	42	0	0	3	0	2	3	0	328	76
6-2,116	41.96	2.876	0	0	33	1	10	0	1	0	3	1	15	0	16	49	52	0	9	1	0	62	6	0	1	0	3	40	0	0	4	0	6	1	1	314	72
6-2,134	42.14	2.885	1	2	13	4	12	0	1	0	5	6	15	3	39	41	39	3	3	3	0	86	3	0	1	2	5	33	0	0	3	0	5	4	1	332	99
6-2,146	42.26	2.891	0	0	31	4	11	0	0	0	13	4	23	1	29	47	42	2	0	0	0	71	4	0	4	0	4	43	1	1	3	0	3	1	1	342	65
6-3,31	42.61	2.910	0	37	13	0	0	2	1	0	9	1	5	4	42	31	61	1	1	4	0	55	1	3	3	3	5	51	0	1	4	0	14	0	3	352	122
6-3,61	42.91	2.923	0	49	9	2	0	1	3	0	2	3	12	0	41	17	54	0	5	0	0	74	0	0	3	0	5	47	2	1	0	0	16	3	1	349	57
6-3,91	43.21	2.936	0	63	10	0	0	3	1	0	8	2	22	2	30	27	31	2	0	1	0	34	4	0	4	3	9	55	0	0	4	0	28	3	0	346	68
6-3,123	43.53	2.950	0	36	11	0	0	0	1	0	4	3	11	0	61	30	48	1	1	0	0	40	4	0	4	2	6	22	2	0	1	0	24	2	0	314	84
6-3,146	43.76	2.959	0	51	6	2	0	2	0	0	5	5	4	2	36	16	43	0	4	1	0	39	6	0	4	0	10	82	2	1	1	0	10	2	1	334	161
6-5,51	45.81	3.048	0	52	8	5	0	5	0	0	0	4	11	8	22	24	49	2	6	0	0	39	9	0	3	0	2	37	1	1	7	0	13	3	2	311	85
6-5,81	46.11	3.061	0	52	15	0	0	0	4	0	7	8	6	0	31	14	53	4	3	0	0	58	8	0	3	6	2	30	2	0	6	0	0	2	2	314	63
6-5,111	46.41	3.073	0	43	11	3	0	0	2	0	2	0	10	12	63	13	39	0	1	1	0	63	8	0	4	5	6	23	0	0	1	0	13	3	2	326	79
6-6,13	46.93	3.096	3	45	0	0	0	7	0	0	6	5	11	11	43	12	48	0	4	1	0	13	14	1	7	9	8	38	1	0	0	0	18	4	0	309	49
6-6,44	47.24	3.109	0	79	19	1	0	5	1	0	7	1	13	12	35	7	58	2	1	0	0	10	5	0	1	0	3	48	0	0	6	0	16	1	3	331	71
6-6,71	47.51	3.121	2	24	23	2	0	3	4	0	0	6	17	3	25	14	60	0	2	1	0	46	2	1	1	5	4	59	0	0	4	20	6	6	2	340	113
6-6,99	47.79	3.133	2	38	22	3	2	1	2	0	6	11	13	4	47	6	35	0	5	0	0	45	5	0	6	2	1	55	6	2	3	0	5	7	2	334	105
7-1,41	49.21	3.194	0	41	7	0	1	0	4	0	6	6	2	7	53	2	61	0	11	1	0	36	1	0	9	4	6	46	5	2	3	0	18	2	0	334	99
7-1,131	50.11	3.233	0	68	8	0	0	0	2	0	0	9	8	3	44	3	35	0	7	0	0	56	0	0	6	4	5	38	8	0	3	0	7	4	0	318	91
7-4,23	53.53	3.380	1	53	13	1	0	0	6	0	9	10	9	0	47	0	45	0	11	1	1	17	0	3	0	5	6	68	13	2	2	0	7	3	4	333	178

Table 20. Planktic foraminifer census data, ODP Hole 672.

SAMPLE	DEPTH	AGE	*Candeina nitida*	*Dentoglobigerina altispira*	*Globigerina bulloides*	*Globigerina conglomerata*	*Globigerina decoraperta*	*Globigerina falconensis*	*Globigerina incisa*	*Globigerina praedigitata*	*Globigerina pseudobesa*	*Globigerina sp. 1*	*Globigerina woodi*	*Globigerinella aequilateralis*	*Globigerinita glutinata*	*Globigerinoides conglobatus*	*Globigerinoides obliquus*	*Globigerinoides ruber*	*Globigerinoides sacculifer*	*Globigerinoides spp.*	*Globorotalia crassaformis*	*Globorotalia hirsuta*	*Globorotalia margaritae*	*Globorotalia menardii*	*Globorotalia puncticulata*	*Globorotalia scitula*	*Globorotalia spp.*	*Globorotalia tosaensis*	*Globorotalia tumida*	*Globorotaloides hexagona*	*Neogloboquadrina acostaensis*	*Neogloboquadrina humerosa*	*Neogloboquadrina pachyderma (d)*	*Neogloboquadrina spp.*	*Orbulina universa*	*Pulleniatina obliquiloculata*	*Sphaeroidinellopsis spp.*	Other	Benthics	Total planktics	Fragments
7 - 2 , 23	52.53	2.523	0	0	3	0	0	0	1	2	0	0	0	0	1	65	2	19	6	0	48	0	1	0	3	1	0	0	0	0	0	0	0	0	18	0	133	12	130	303	>3,000
7 - 4 , 101	56.31	2.638	0	0	23	0	0	0	1	2	0	0	7	0	4	19	55	102	61	0	23	0	0	0	23	2	0	0	0	0	7	31	0	0	12	0	0	1	4	372	>350
7 - 5 , 20	57.00	2.660	0	0	6	0	5	0	0	1	0	0	25	0	13	8	19	122	36	0	6	0	0	36	0	0	0	0	0	0	12	46	2	0	5	0	4	0	2	346	189
8 - 1 , 101	61.31	2.798	0	0	4	0	7	0	3	3	0	0	29	0	26	20	29	70	30	10	11	0	0	34	0	1	0	3	3	0	6	48	3	5	2	0	10	1	1	357	228
8 - 3 , 101	64.31	2.894	0	37	1	0	2	0	0	1	0	1	20	2	12	7	18	84	34	7	10	0	0	16	1	2	0	0	0	0	6	27	2	1	5	0	17	0	1	313	164
8 - 5 , 76	67.06	3.024	0	29	8	3	1	0	0	0	0	0	7	1	22	46	60	36	9	0	4	0	0	23	0	0	0	0	0	5	4	60	1	4	7	0	1	1	1	331	395
8 - 5 , 126	67.56	3.048	1	29	4	3	0	0	0	0	0	0	15	1	20	50	12	40	54	0	9	0	0	11	0	0	1	0	0	0	6	55	0	2	7	0	3	0	2	323	280
8 - 6 , 26	68.06	3.072	3	54	0	1	0	0	0	0	0	0	9	1	18	34	27	37	37	1	12	4	0	23	0	0	0	0	0	0	5	35	0	0	6	0	12	3	3	319	252
8 - 6 , 76	68.56	3.096	1	32	0	1	0	0	0	2	0	0	7	0	4	55	30	27	44	0	12	2	0	28	0	4	0	0	0	0	18	34	0	0	6	0	13	2	1	320	479
8 - 6 , 121	69.01	3.118	0	34	6	0	1	0	0	0	30	0	8	2	22	51	41	47	49	1	6	0	0	23	0	2	0	6	0	2	9	37	5	0	12	0	8	0	2	402	236
8 - 7 , 31	69.61	3.147	0	13	1	4	0	0	1	1	0	0	4	1	0	28	23	6	150	2	6	2	0	41	0	0	0	0	0	0	5	35	1	0	17	0	11	0	6	352	840
9 - 1 , 91	70.71	3.200	1	43	3	4	0	0	0	0	0	0	17	0	20	42	22	60	56	0	4	1	0	23	0	2	0	0	0	0	6	45	4	1	6	0	5	0	0	365	125
9 - 1 , 111	70.91	3.210	1	33	4	10	0	0	1	2	0	0	1	0	12	31	18	15	85	0	1	1	0	13	0	3	1	0	0	0	3	49	6	2	3	0	32	2	2	327	534
9 - 1 , 141	71.21	3.225	0	36	2	2	0	0	0	0	0	0	7	2	13	25	30	34	83	0	0	7	0	37	0	0	1	0	0	3	8	60	3	0	4	0	11	3	1	368	273
9 - 2 , 16	71.46	3.237	0	52	5	2	0	1	0	1	0	0	5	0	10	36	28	42	68	0	0	9	0	11	0	0	4	0	0	3	6	49	1	0	3	0	26	1	1	362	384
9 - 2 , 44	71.74	3.250	2	41	2	5	0	2	0	1	0	0	5	2	11	25	29	34	77	0	0	0	0	29	0	7	0	0	0	1	5	66	3	1	2	0	22	6	3	372	301
9 - 2 , 66	71.96	3.261	3	1	4	6	0	0	0	1	0	2	25	0	17	21	15	42	87	2	0	3	0	16	0	5	0	0	0	1	5	86	1	6	7	0	13	4	3	369	195
9 - 2 , 91	72.21	3.273	2	21	2	3	0	0	0	2	0	0	2	0	9	29	32	30	139	2	0	3	0	17	0	3	1	0	0	3	3	62	0	2	2	0	8	1	8	377	712
9 - 2 , 116	72.46	3.285	2	30	3	10	0	0	1	3	0	1	1	1	2	26	23	16	107	1	0	9	0	17	0	3	2	0	0	2	4	39	0	2	11	12	18	2	11	346	1604
9 - 2 , 141	72.71	3.297	0	10	4	5	0	0	1	14	0	0	0	2	0	25	29	25	114	6	0	8	0	4	0	1	2	0	0	1	1	48	1	2	23	15	40	2	42	381	2700
9 - 3 , 16	72.96	3.309	3	34	2	6	0	0	1	2	0	1	0	4	12	17	10	24	72	0	0	10	0	15	0	3	0	0	0	6	1	46	2	3	4	4	49	5	3	331	439
9 - 3 , 43	73.23	3.322	0	34	9	3	0	0	11	2	0	0	1	0	8	11	15	37	59	0	0	2	0	23	0	3	0	0	0	10	1	65	0	2	2	20	45	1	8	363	683
9 - 3 , 66	73.46	3.333	0	2	1	1	0	0	2	8	0	0	0	0	1	17	16	16	56	7	0	0	0	0	0	0	0	0	0	1	0	14	1	0	20	3	170	1	34	336	1316
9 - 3 , 91	73.71	3.345	0	33	5	2	0	2	5	2	0	0	18	3	15	4	28	96	38	1	2	0	0	24	0	3	0	0	0	3	0	48	0	0	4	17	25	0	3	378	269
9 - 3 , 117	73.97	3.358	0	13	4	4	0	0	12	6	0	0	0	0	3	20	17	10	52	0	0	0	0	2	0	0	1	0	0	1	0	41	0	0	21	36	130	2	16	373	1920
9 - 3 , 141	74.21	3.370	3	45	2	2	0	0	10	3	0	0	1	3	16	11	28	70	89	1	5	0	0	18	0	4	1	0	0	0	5	47	0	0	5	0	7	3	0	376	423
9 - 4 , 16	74.46	3.382	0	50	1	3	0	0	16	1	0	0	7	2	12	8	10	40	113	0	5	0	0	13	0	1	2	0	0	3	4	45	1	1	11	0	27	2	6	376	872
9 - 4 , 41	74.71	3.394	0	1	3	2	0	0	2	11	0	0	0	0	0	32	27	31	48	0	5	0	0	0	0	1	0	0	0	1	8	20	1	0	16	0	155	3	82	364	2832
9 - 4 , 66	74.96	3.406	1	23	7	3	0	0	1	2	0	0	4	1	17	12	29	50	91	5	8	0	0	17	0	1	0	0	0	1	0	48	1	0	19	0	25	1	10	366	734
9 - 4 , 91	75.21	3.418	0	11	2	7	0	0	13	9	0	0	0	0	7	16	44	46	97	3	10	0	0	8	0	3	0	0	0	2	3	34	0	0	20	0	26	0	6	361	1104
9 - 4 , 113	75.43	3.429	1	26	3	4	0	0	19	3	0	0	1	2	7	23	14	39	86	2	12	0	0	24	0	6	0	0	0	0	0	48	2	1	14	0	32	1	4	369	862
9 - 5 , 101	76.81	3.495	0	6	1	4	0	0	7	8	0	0	1	1	0	21	23	17	58	0	10	0	0	62	0	0	0	0	0	3	5	31	3	0	6	0	83	0	8	350	1320
9 - 6 , 101	78.31	3.568	3	71	1	0	0	1	7	2	0	0	1	0	14	31	33	18	93	1	9	1	0	1	0	1	0	0	0	0	5	41	0	1	1	0	33	3	2	369	655
9 - 7 , 21	79.01	3.602	2	43	4	5	0	7	0	2	0	0	1	2	17	37	43	26	52	1	5	0	0	42	0	1	0	0	0	1	6	45	0	0	1	0	11	1	0	354	0
10 - 1 , 61	79.91	3.645	3	47	6	0	0	3	0	2	0	0	1	0	19	17	55	49	41	2	8	0	0	41	0	3	0	0	0	0	7	37	0	1	2	1	22	3	1	367	140
10 - 2 , 101	81.81	3.737	1	27	2	2	0	0	3	4	0	0	0	1	5	16	55	11	96	0	2	0	0	33	0	0	1	0	0	0	2	59	1	0	4	0	47	1	5	372	658
10 - 3 , 141	83.71	3.827	4	48	2	0	0	0	2	2	0	0	1	0	9	20	64	4	63	0	8	0	0	45	0	2	0	0	0	1	4	34	2	1	2	0	33	7	3	351	509
10 - 4 , 51	84.31	3.646	0	81	8	0	0	2	8	0	0	2	3	0	16	25	76	0	32	0	3	0	0	27	0	0	1	0	0	0	24	51	5	0	2	3	16	0	0	385	202
10 - 5 , 101	86.31	3.946	1	72	2	0	0	0	12	1	0	1	9	0	17	5	107	3	42	0	2	0	5	8	0	0	1	0	0	0	13	37	1	0	4	0	27	7	4	370	0