							-		-																										_
Geologic age	North Pacific diatom zone	Core, section	Sample depth (mbsf)	Offset (m)	Composite depth (mcd)	Group abundance	Preservation	Environment, type of upwelling	Actinocyclus ingens	Actinocyclus ingens f. nodus	Actinocyclus oculatus	Actinocyclus tenetius Actinocyclus tsuoaruensis	A officienticle is a subset	Actinoptycius senurus Actinontychus snlendens	Aulacoseira granulata	Auliscus sp.	Azpeitia nodulifera	Cavitatus jouseanus	Cocconeis decipiens	Cocconeis scutellum	Coscinodiscus asteromphalus Coscinodiscus lewisianus	Coscinodiscus marainatus	Coscinadiscus marginatus f fossilis	Coscinodiscus sp.	Craspedodiscus coscinodiscus	Crucidenticula nicobarica	Crucidentucla cf. punctata	Denticulopsis dimorpha	Denticulopsis hyalina	Denticulopsts katayamae Denticulonsis lauta	Denticulonsis lauta s 1	Denticulopsis praedimorpha	Denticulopsos praelauta	Denticulopsis simonsenii	Diplonets smithu
Quaternary late Pliocene	NPD 12 to NPD 11 NPD 10 to NPD 9 to NPD 8	167-1014A- 1H-CC 2H-CC 3H-CC 4H-CC 5H-CC 6H-CC 7X-CC 8X-CC 10X-CC 11X-CC 11X-CC 11X-CC 13X-CC 13X-CC 13X-CC 13X-CC 13X-CC 15X-CC 15X-CC 15X-CC 15X-CC 15X-CC 15X-CC 20X-CC 21X-CC 21X-CC 21X-CC 21X-CC 23X-CC 23X-CC 23X-CC 23X-CC 24X-CC 25X-CC	3.10 12.60 22.10 31.60 41.40 50.60 54.30 64.00 73.80 83.50 93.10 102.80 112.40 122.00 112.40 122.00 112.40 122.00 112.40 141.20 141.20 150.80 141.20 150.80 170.00 179.60 179.60 189.20 218.00 223.50 227.70 237.30 246.90 255.60 266.20 275.80 255.10 304.40 333.70 343.40 353.00 266.20 255.10 304.80 314.40 353.00 266.20 275.80 285.50 295.10 304.80 314.40 333.70 343.40 353.00 250.60 304.80 314.40 353.00 314.40 353.00 304.80 314.40 353.00 325.00 314.40 353.00 326.00 327.00 314.40 333.70 343.40 353.00 327.00 327.00 343.40 353.00 327.00 327.00 343.40 353.00 327.00 327.00 327.00 327.00 327.00 327.00 327.00 327.00 327.00 327.00 327.00 30.0	$\begin{array}{c} 0.00\\ 0.65\\ 1.16\\ 1.31\\ 1.60\\ 2.97\\ 3.00\\ 2.67\\ 2.31\\ 1.91\\ 1.96\\ 0.12\\ 2.21\\ 1.96\\ 0.12\\ 2.21\\ 1.96\\ 0.12\\ -7.00\\ -3.64\\ -7.00\\ -4.74\\ -3.87\\ -3.87\\ -3.87\\ -3.87\\ -3.87\\ -3.87\\ -3.87\\ -3.87\\ -4.56\\ -6.60\\$	$\begin{array}{c} 3.10\\ 13.25\\ 23.26\\ 32.91\\ 43.00\\ 53.57\\ 57.30\\ 66.67\\ 75.83\\ 85.81\\ 95.01\\ 105.01\\ 114.36\\ 122.12\\ 127.96\\ 134.20\\ 146.06\\ 134.20\\ 146.06\\ 134.20\\ 146.06\\ 134.20\\ 146.06\\ 134.20\\ 144.31\\ 105.01\\ 127.96\\ 134.20\\ 144.31\\ 105.01\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 134.20\\ 127.96\\ 127$	TTTTTRTTTTTTTTTTTTRTRTARCRRTTTRTFRRTTRTRTRTT	Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р	Coastal Coastal	TTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	T T T T T T T T R T T T T T T	T T T T T T T T T T	T T T			Т	ТТ	T T T T T T	TT T T T T T T T T T T T T T T	R T	т	T T T T T T			T T T T T T T T T T T T	т	Т	т	T T T	T T R T T T TRTTTT RTT TT T	ר ר ר ר ר ר ר ר ר ד ד ד ד ד ד ד ד ד ד ד		T T T T T T T	R	T T T RTT T RT TT	T
early Pliocene	to NPD 7?	42X-CC 43X-CC 44X-CC 45X-CC 46X-CC 46X-CC 47X-CC 48X-CC 49X-CC 50X-CC	372.20 381.80 391.00 401.00 410.50 420.50 429.80 439.40 449.00	-6.60 -6.60 -6.60 -6.60 -6.60 -6.60 -6.60 -6.60	365.60 375.20 384.40 394.40 403.90 413.90 423.20 432.80 442.40	T † R R R R R R R R R	P P P P P P P P		T T T T T T T T	T T T T T		1 1 1 1		Г Г Г			T T	T T T T T	T T		1	נ נ נ						T T	T T T T T	T T T		Т		т Т Т Т Т	

Table 6. Distribution and relative abundances of diatoms, Hole 1014A.

Notes: Abundance: A = abundant, C = common, F = few, R = rare, and T = trace. Preservation: M = moderate, and P = poor. For complete definition of terms, see "Techniques" section of this chapter. \dagger = no sample.

Table 6 (continued).

Geologic age	North Pacific diatom zone	Core, section	Sample depth (mbsf)	Offset (m)	Composite depth (mcd)	Group abundance	rreservation Environment, type of upwelling	Grammatophora sp. Homiculus nolymorphus	Hemidiscus cuneiformis	Navicula sp.	Neodenticula kamtschatica	Neodenticula koizumii	Neodenticula ct. seminae	Nitzschia reinholati Nitzschia sp	Opephora sp.	Paralia sulcata	Plagiogramma staurophorum Proboscia harboi	Raphidodiscus marylandiscus	Rossiella paleacea	Stephanopyxis schenkii	Stephanopyxis turris	Jyneara sp. Thalassionema hirosakiensis	Thalassionema nitzschioides	Thalassionema nitzschioides v. parva	Thalassionema schraderi	Thalassiosira antiqua	1 natassiostra convexa Thalassiostra eccentrica	Thalassiosira cf. leptopus	Thalassiosira spp. (T. nativa type)	Thalassiosira yabei Thalassiothrix longissima	Thalassiothrix spp.	Sponge spicules
Quaternary	NPD 12 to NPD 11	167-1014A- 1H-CC 2H-CC 3H-CC 4H-CC 5H-CC 6H-CC 7X-CC 8X-CC 9X-CC 10X-CC 11X-CC 12X-CC 13X-CC 13X-CC 13X-CC 15X-CC 16X-CC	3.10 12.60 22.10 31.60 54.30 64.00 73.80 83.50 93.10 102.80 112.40 131.60 141.00	0.00 0.65 1.16 1.31 1.60 2.97 3.00 2.67 2.03 2.31 1.91 2.21 1.96 0.12 -3.64 -7.00	3.10 13.25 23.26 32.91 43.00 53.57 57.30 66.67 75.83 85.81 95.01 105.01 114.36 122.12 127.96 134.20	T T T T T T T T T T T T T T T T T T T	Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р	1		Т		Т	T T T			T T T T	1	[T T T T	T T	T T T T T T T	T T T T	T	T	Г		T	R T T	Т	C F C C C R F F F F F F F F R C
late Pliocene	to NPD 9 to	18X-CC 18X-CC 20X-CC 21X-CC 22X-CC 23X-CC 24X-CC 25X-CC 26X-CC 27X-CC 28X-CC 28X-CC 30X-CC 31X-CC 31X-CC	130.40 160.40 170.00 179.60 189.20 198.80 223.50 227.70 223.70 227.70 227.70 225.60 256.60 256.60 266.20 275.80 285.50	-4.74 -3.87 -4.56 -4.56 -4.56 -4.49 -4.49 -6.60 -	140.00 156.53 166.13 175.04 184.64 194.31 203.91 211.40 221.10 230.70 240.30 224.00 2250.00 259.60 259.60 269.20 278.90	T T R T R T R T R T T R T R T T R T R T	P P P Coastal M Coastal P P P P P P P P P P P P P P P P P P P	R	T F T			TTT TT TT		Т	Т	T R R T T T T T	R A T I H			Т	T T T T T T R	TR	T T T T T T T T T T T T	T T	T T T		T T T	×	T T R	R C T R	T T	R R T R A C F C C T C C C C C R C R C R
early Pliocene	NPD 8 to NPD 7?	34X-CC 35X-CC 36X-CC 37X-CC 39X-CC 40X-CC 40X-CC 41X-CC 42X-CC 43X-CC 43X-CC 45X-CC 45X-CC 46X-CC 46X-CC 46X-CC 47X-CC 49X-CC 50X-CC	295.10 304.80 314.40 324.10 333.70 343.40 353.00 362.60 372.20 381.80 391.00 401.00 410.50 420.50 429.80 439.40 449.00	$\begin{array}{c} -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ -6.60\\ \end{array}$	$\begin{array}{c} 288.50\\ 298.20\\ 307.80\\ 317.50\\ 327.10\\ 336.80\\ 346.40\\ 356.00\\ 355.00\\ 346.40\\ 394.40\\ 403.90\\ 413.90\\ 413.90\\ 413.20\\ 432.20\\ 432.80\\ 442.40\\ \end{array}$	R T T R T R T T T T T ; † R R R R R R R R R R R R R R R R R R	Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р		T		T T	T T	T T	T	۹.	T T T T T T	1	T ſ	Т		T T T T T T T	Τ	T T T T T T T T T T	T T T	T T T		Г	Т	T T	T T T T T		R C C R R R R R R R C C C F T C F