$\mathbf{R} = rare$	e (less than 0.1%	of nannoto	ssil assemb	lage). A	bundance	es given	in low	ver case	eletters	represe	nt speci	mens co	onsider	ea rew	orked	. Prese	rvation	: blank	x = no	etchir	ng or o	overgro	wth,	I = shg	ght, 2 =	= mode	rate, 3	= stron	ng etch	hing or	overg	growth						
						stus		S		nica	rinatus	sis	19		s	SILLE	thoides		orphus	versus	eri	osa	sir	SI	s ensis	5	ntus dians	doumbilica tus		ta	snsob	durovi	ides	SI	S.			lica
Age	Nannofossil Zone	Sample (interval in cm)	Sub-bottom Depth (m)	dance vation ng	rowth rking oolithus abies	argolithus abisec olithus acutus aster asymmetric	aster barbadiensi aster beroarenii	ablithus bijugatu ococcites bisectu	aster bollii aster brouweri	aster calyculus ster calyculus yrocapsa caribbee	etrorhabdulus cal osphaera carteri aster challengeri	nolithus ciperoen aster coalitus	ospriaera compac olithus cristatus molithus danicus	aster deflandrei aster diastypus	nolithus distentus Nithus doronicoid	aster druggii aster exilis caroolithus florid	olithus formosus	molithus grandis molithus gigas	aster hamatus nolithus heterom	etrorhabdulus in culithus involutu	lithus kleinpellii asteroides kuepp	aster kugrer loemiliania lacun discus leptoporus	aster lodoensis nolithus moriforn	aster multiradiat	aster neohamatu molithus oamaru	yrocapsa oceanic olithus pelagicus aster pentaradiat	nolithus predister	ulofenestra pseuc aster quinqueran	oolithus radians osphaera recta	olithus recurvus osphaera reticulai olithus rugosus	etrorhabdulus ru aster sainanensis	aster sarpanensis ulofenestra samo osphaera sellii	letteius serraculo rhabdus serratus	discus sigmoides molithus solitus diithus subdistich	aster sublodoensi aster surculus	aster tamalis aster tanii	olacolithus tenuis aster trinidadensi	ulofenestra umbii aster variabilis cosphaera sp. ius sp.
				Abun Presel Etchi	Overg Rewo Spher	Cycli Cerat Disco	Disco	Zygrl Dicty	Disco	Catin Geph	Helic Disco	Sphe Catin	Cerat	Disco	Sphe. Creni	Disco Disco	Cocce	Chias Chias	Disco	Triqu Fasci	Helio Disco	Pseur Calci	Disco	Disco	Disco	Geph Cocc	Sphe. Sphe.	Retic Disco	Helic	Helic Cerat	Triqu	Retic Helic	Bram Ortho	Zygo Chias	Disco	Disco Disco	Cruci	Retic Disco Thorä Towe
Pleistocene	NN20NN21 NN20NN21	1-3, 4–5 1-6, 140–141		C M 2 C M 2	1 f r 1 f r	r r r r			r r	F	F		R				r		r			r C	r r	r r		F F r	·	r r		r r	r				r		++	R
	NN18-NN19	1,CC	10.0	C M 2	1 f f		++-		f	F	F				F	f	:					FC		f		Fr		r r			r				r	r		
	NN18-NN19 NN18-NN19	2,CC 3-4, 52–54	19.5 24.5	C M 2 B	2 c f				r	F					F							F F				F						ĸ					++	
cene	NN18-NN19	3,CC 4-4, 34–35		C M 2 C M 2	2 c f				F	R	Fr				F	f			f			FF		C f	f	F	r	r r		r		R						
late Plioce to Pleistoc	??	4-5, 90-91	35.9	C M 2		R	r r	·	F	r	F								r			С	f	c		Fr		f r			r				f	r		R
lat to	?	4,CC 5-4, 25–26	38.5 43.3	B C P 3	1 c f		f		с		F	r				f			r			С		C		F F	:	f							r			R
	?	5-7, 19-20	47.7	FP3	1 C f				F		Fr											С		c		F		f			r							R
	NN18? NN11	5,CC 6-2, 20–21	48.0 49.7	F P 2 C M 2	1 C f 1 C F				F		F		R		C	t c			r f			f F		C		F		f C			f f	R					++	R
	NN11	6-4, 51–52 6,CC	53.0 57.5	C M 2	1 r F				RF		r r								r			С		С		F		C F			r							R
ocene- iocene	NN11 NN11	7-2, 103-104		C M 2							F								r			r F		F	R	F		C F			F						r	F R
late Miocene late Pliocen	NN11 NN11	7,CC 8-1, 34–35		C M 2 C M 2	1 f F						r F	F			A				f			C C	f	C C	R	F		F F C F			R	R						F
-	NN11	8-3, 109-110	71.1	F M 2	2 r F						F				С				r			C		С				C										
	NN14-NN18 NN7	8,CC 10-2, 85–86			1 f F 2 f F	R	++		f R	?	F R		?	+ $+$ $+$ $+$					r			? F ? F		C C	R	?	· .	F F		++-	R F	++-	r	++-	+		++	R
	NN7	10,CC	95.5	C M 2	2 f F						r F								r							С		F		_	F							F
٥	NN7 NN7	11,CC 12-1, 36-37		C M 2	2 C 2 C	· .			R		F R R					F C			f	++		- R	R	++-		F C		A	-		F						F	F F
middl	NN5 NN5	12-4, 46-47 12;CC		A M 2 C M 2	+ + + - +	R		r			r R					F C			С			R	R			F		R			R						F	R
ocene	NN5	12,00 13,00	114.5	F M 2		r					r R					F C	;		C			R	С			F					R		R				F	R R
Mi	NN5 NN5	14,CC 15,CC	133.5 143.0	C M 2 A M 2		F		f			r R f R	r		F		F A	f		С			R	F			F	r	R			F		F				F	F
	NN2	16-1, 88-89		A M 2		R		r			F					F A							F			F											С	
early	NN1 NN1	16,CC 17,CC		A P 2 A P 2		C F		r			C A		++-		r r	A	r			++			C	++-		F	r				+	r			+ $+$ $+$		C	
	NN1	18,CC	171.5	C P 2	3 r	С		r			A					F							C															R
	NP25 NP25	19-2, 138–139 19-6, 34–35		F P 3 C P 2		F		r			F	F				C							F	+		F	F R											
	NP24 NP24	19,CC 20,CC		C M 2 C M 2	+ + +	C						F		С	F	A	、						С		r	F	F		R				r					r R
	NP24	20,00 21,00		C P 3		с						F		С	F	A							С			F	F						r					
	NP24 NP23	22,CC 23-2, 89–90		C P 2 C P 2		A C	++	R R			?	F		F R	F R	F							A			F	F						r				+++	r F
	NP23	23,CC	219.0	C P 3	3 r	F		С									r						A				F									F		
ate	NP23 NP23	24,CC 25-6, 8–9		C P 3 C P 2		F A		A C		+++	++-	R	2	R R	R	R			++			+	A F	++-		F	F F									F		r
ocene	NP23	25,CC	238.0	C P 3	+ + +	F		A						R									С			F	F										(	
Olig	NP23 NP23	26k, 27,CC		C P 2 C P 2		R	r f	R C							F		F C	r		r r			F	r	r	C c	F R C F	r		R	f	F	F					=
	NP23 NP23	28-4, 60-62 28,CC		C P 3 C P 3				С							R		F						F			F	R			R		F	R				I	
	NP23	29,CC	276.0	C P 2	3 f		f	A				F	2				С	r					F	r		F	R	r		R		F	F	r			1	
	NP23 NP23	30,CC 31-1, 134–138		C P 2 C P 2			r f	A C									C C	r				+	F			F	F R			R		F	F C	R			F	2
	NP23	31,CC	295.0	C P 2			f	С									С						R			F	R		R	R	f	F	с				0	
	NP23 NP21-NP22	32-2, 49–50 32,CC		C P 2 C P 2		R	r	C C		+++		F	2		R		C			++		++	R			F	F			R F	r r	F C	C C			R F		
early	NP21	33-1, 88-89	305.4	C P 2 C P 2	3 r		r	С									С						R				F					F	F				(	
	NP21 NP20	33,CC 34-1, 73–74	314.7	CP2	3 r		F	C		+++							C			R			F			C	R			R	R		F			F		
	NP20 NP20	34,CC 35,CC	323.5	C P 2 C P 2	3 r	F	F	C				R					С	r					F	+ +		F	R	r		R	R	R	C C	r		F		
	NP20	36-1, 101-102	2 334.0	C P 2	3 r		F	С									С			R			F			F	R			F	F	F	F			F	F	
late	NP20 NP20	36-3, 81-82 36,CC	336.8 342.5	C M 2	2 r		С	A						+			С						F			С	R	r		F	F	С	С			F	F	
Eocene	NP20	37-1, 91-92	343.4	C P 2			F	A										Fr		F			F			С	F	r	+ $+$	R		F	с			F	F	
	NP20 NP20	37,CC 38-2, 68–69		C P 2 C M 2		F	F	C C									C r C	F F		F r			F			C C	F C	r F		R		R F	C F			F	F	
ш ——	NP20	38,CC	361.5	C P 2	3 r	F	F										F	R		R						С	R	R	R	R	F	F		F		R	C	
arly   middle	NP16 NP14NP15	39-1, 8–9 39-3, 18–19		C P 2 C P 2			F										C R C R			R R		+++	?	r		C C		R			F	F C	_	F	R		F	
	NP14-NP15	39,CC	371.0	C P 2	3 r		R										CF			R	F					С						С		R			C	
	and the second	41,CC 42-1, 30–32		F P 2   F P 2			R R										A			Fr				r		C C		c c	_			F		F				R F
e Palacasas	NP10-NP11	44-1, 61	409.6	F M 2	2 f								0	F										A		С							R					F F F
e. Paleocene	NP3-NP4	45,CC	428.0	F M 2	2 C								R																				R			R		

Volume 61: Chapter 6: Figure 5. Stratigraphic distribution of Cenozoic calcareous nannofossils, Hole 462. Species abundances: A = abundant (more than 10% of total nannofossil assemblage); C = common (1-10% of nannofossil assemblage); F = few (0.1-1% of nannofossil assemblage); F = few (0.1-1% of nannofossil assemblage); R = rare (less than 0.1% of nannofossil assemblage). Abundances given in lower case letters represent specimens considered reworked. Preservation: blank = no etching or overgrowth, 1 = slight, 2 = moderate, 3 = strong etching or overgrowth.