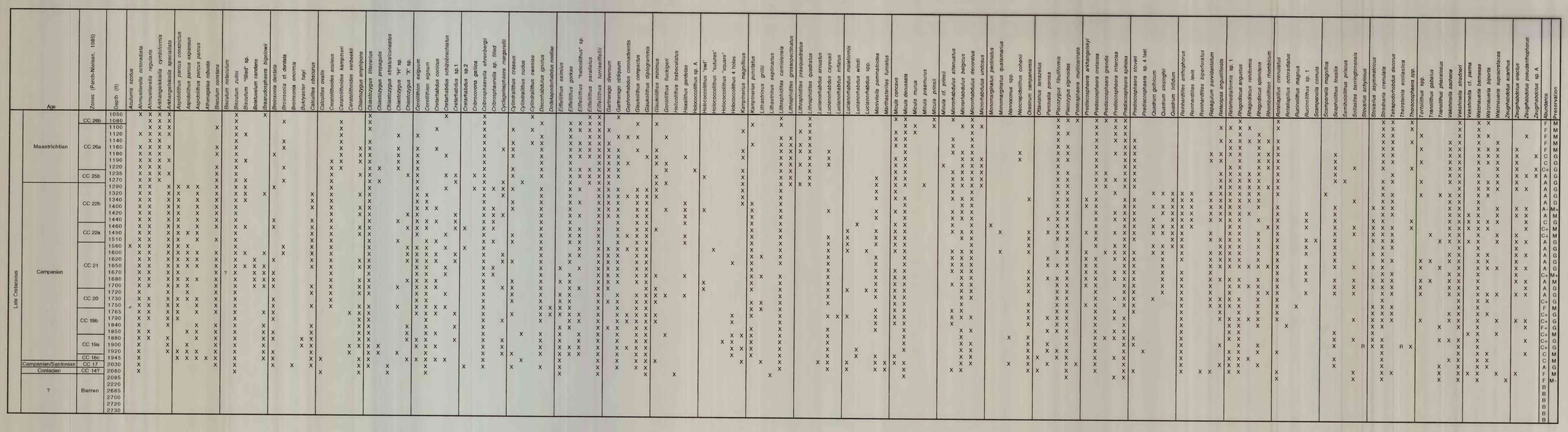

Figure 3. Mesozoic calcareous nannofossil occurrences in core C-15, South Carolina. B, samples barren of calcareous nannofossils; R, specimens likely reworked; ?, possible occurrence.

C-15 core — Formation	Rhems Fm.	Williamsburg Formation											Santee Formation										
Calcareous Nannofossil Zone	NP 1	lower NP 5	lower NP 5	lower NP 5	lower NP 5	lower NP 5	upper NP 5	upper NP 5	NP 6	??	??	??	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17	NP 17
Species — Depth (ft)	1030' 1010'	1000'	950'	885'	865'	850'	820'	800'	760'	730'	700'		680'	640'	610'	570'	540'	505'	500'	480'	450'	430'	380'
Blackites spinosus													X	X	X								
Blackites tenuis														X									
Blackites spp.										X						X						X	
Braarudosphaera bigelowii	X			X						X			X	X	X	X	X	X			X		
Campylosphaera dela													X	X	X	X	X						
Cepekiella lumina										X			X	X		X		X				X	X
Chiasmolithus bidens		X	X		X	X	X		X														
Chiasmolithus consuetus s.l.		X				X																	
Chiasmolithus grandis										X			X	1	1	2							
Chiasmolithus titus													X	X	X								
Chiasmolithus spp. small unsplit									X									X					
Coccolithus eopelagicus														X	X	X			X		X		X
Coccolithus pelagicus		X	X	X		X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
Cribrocentrum reticulatum									C	X	X		X	X	X	X	X	X	X		X	X	X
Cruciplacolithus asymmetricus	X		X	X	X																		
Cruciplacolithus intermedius	X																						
Cruciplacolithus primus	X							X															
Cyclagelosphaera prima			X			X																	
Cyclococcolithus formosus									C	X			X	X	X	X	X	X	X	X	X	X	X
Cyclococcolithus protoannulus													X			X		X					X
Cyclococcolithus spp.														X	X							X	
Daktylethra punctulata										X				X									
Dictyococcites bisectus										X			X	X	X	X	X	X		X	X	X	X
Dictyococcites scrippsae									C	X				X		X			X	X		X	X
Discoaster barbadiensis										X				X	X	X						X	
Discoaster deflandrei													X										
Discoaster nodifer														X									
Discoaster saipanensis														X									
Discoaster spp.																					X		
Ellipsolithus bollii			X																				
Ellipsolithus distichus					X																		
Ellipsolithus macellus					X																		
Ericsonia obruta														X	X	X	X						X
Ericsonia subpertusa	X	X	X	X	X	X	X		X														
Fasciculithus janii/billii					X																		
Fasciculithus involutus				X					X														
Fasciculithus tympaniformis						X		X															
Fasciculithus spp.					X			X															
Goniolithus fluckigeri	X																						
Helicosphaera compacta										X			X	X	X	X		X					
Helicosphaera lophota/euphratis													X										
Helicosphaera papillata														X									
Helicosphaera seminulum														X	X		X						
Helicosphaera seminulum/bramlettei																X		X	X		X		
Heliolithus cantabriae							X	X	X														
Heliolithus kleinpellii									X														
Hornibrookina arca										1													
Lithostromation simplex														X									
Markalius inversus	X									X			X	X		X		X	X		X		
Micrantholithus spp.																X	X						
Naninfula sp.														X									
Neochiastozygus concinnus		X																					
Neococcolithes dubius													X	X	X	X							
Neococcolithes sp. aff. *N. protenus*	X	X				X																	
Neococcolithes spp.		X							X														
Pedinocyclus larvalis																			X				
Pemma basquense																X							
Pemma papillatum													X	X									
Pemma spp.													X		X		X						
Placozygus sigmoides	X	X		X	X	X																	
Pontosphaera multipora													X	X								X	
Pontosphaera spp.																			X		X		
Praeprinsius spp.	X																						
Reticulofenestra daviesii														X		X				X	X	X	X
Reticulofenestra floridana										X	X		X	X	X	X	X	X	X	X	X	X	X
Reticulofenestra hillae													X	X								X	X
Reticulofenestra umblicus										X			X	X	X	X						X	
Reticulofenestra spp.									C														
Reticulofenestra spp. small										X													
Rhabdosphaera procera																X							
Rhabdosphaera spp.																	X	X		X			
Sphenolithus moriformis													X	X	X	X	X	X	X	X	X	X	X
Sphenolithus obtusus																X	X						
Thoracosphaera spp.	X	X	X		X	X								X									
Toweius eminens eminens						X			X														
Toweius eminens tovae						X		X	X														
Toweius pertusus		X	X	X	X	X	X	X	X	X	X												
Transversopontis pulcher										X													
Transversopontis pulcheroides										X	X			X		X	X						
Transversopontis zigzag																			X				
Zygodiscus herlyni								X															
Zygrhablithus bijugatus										X	X		X	X	X	X	X	X	X	X	X	X	X
placoliths	X																						
Cretaceous forms	X		X	X																			
Abundance	F R	F	F	F	F	F	F	C	F	A	F		A	A	A	A	A	A	C	C	C	C	C
Preservation	M P	M	M	M	G	M	M	G	P	G	P		M	G	M	M	M	M	P	P	P	P	P

Figure 4. Cenozoic calcareous nannofossil occurrences in core C-15, South Carolina. B, sample barren of calcareous nannofossils; 1, only one specimen observed in entire sample; 2, only 2 specimens observed in entire sample; C, specimen most likely a contaminant from upcore.

Appendix 1. Cretaceous calcareous nannofossil species listed in paper

Acuturris scotus (Risatti, 1973) Wind & Wise in Wise & Wind, 1977
Almuellerella octoradiata (Gorka, 1957) Reinhardt, 1964
Almuellerella regularis (Gorka, 1957) Reinhardt & Gorka, 1967
Arkhangelskiella cymbiformis Vekshina, 1959
Arkhangelskiella specialiata Vekshina, 1959
Aspidolithus parcus constrictus (Hattner, Wind, & Wise, 1980) Perch-Nielsen, 1984
Aspidolithus parcus expansus (Wise & Watkins in Wise, 1983)
Aspidolithus parcus parcus (Stradner, 1963) Noel, 1969
Athenagoalea robusta Hattner and Wise, 1980
Biscutum constans (Gorka, 1957) Black in Black and Barnes, 1959

Biscutum notaculum Wind & Wise in Wise and Wind, 1977
Biscutum zulloi Covington, 1994
boletuvelum candens Wind & Wise in Wise & Wind, 1977
Braarudosphaera bigelowii (Gran & Braarud, 1935) Deflandre, 1947
Broinsonia dentata Bukry, 1969
Broinsonia enormis (Shumenko, 1968) Manivit, 1971
Bukryaster hayi (Bukry, 1969) Prins & Sissinghi in Sissingh, 1977
Calculites obscurus (Deflandre, 1959) Prins & Sissinghi in Sissingh, 1977
Calculites ovalis (Stradner, 1963) Prins & Sissingh in Sissingh, 1977
Ceratolithoides aculeus (Stradner, 1961) Prins & Sissingh in Sissingh, 1977

Ceratolithoides kamptneri Bramlette & Martini, 1964
Ceratolithoides verbeekii Perch-Nielsen, 1979
Chiastozygus amphipons (Bramlette & Martini, 1964) Gartner, 1968
Chiastozygus litterarius (Corka, 1957) Manivit, 1971
Chiastozygus propagulis Bukry, 1969
Chiastozygus striatus Black, 1971
Corollithion exiguum Stradner, 1961
Corollithion signum Stradner, 1963
Cretarhabdus conicus Bramlette & Martini, 1964
Cretarhabdus schizobrachiatus (Gartner, 1968) Bukry, 1969

Cribrocorona gallica (Stradner, 1963) Perch-Nielsen, 1973
Cribrosphaerella ehrenbergii (Arkhangelsky, 1912) Deflandre in Piveteau, 1952
Cyclagelosphaera margarellii Noel, 1965
Cylindralithus crassus Stover, 1966
Cylindralithus nudus Bukry, 1969
Cylindralithus ovenieae Perch-Nielsen, 1973
Discorhabdus ignotus (Gorka, 1957) Perch-Nielsen, 1968
Dodekapodorhabdus noelae Perch-Nielsen, 1968
Eiffellithus eximius (Stover, 1966) Perch-Nielsen, 1968
Eiffellithus gorkae Reinhardt, 1965

Eiffellithus parallelus Perch-Nielsen, 1973
Eiffellithus turriseiffelii (Deflandre in Deflandre and Fert, 1954) Reinhardt, 1964
Gartnerago diversum Thierstein, 1972
Gartnerago obliquum (Stradner, 1963) Noel, 1970
Gephyrorhabdus coronadventis (Reinhardt, 1966) Hill, 1976
Glaukolithus compactus (Bukry, 1969) Perch-Nielsen, 1984
Glaukolithus diplogrammis (Deflandre in Deflandre and Fert, 1954) Reinhardt, 1964
Glaukolithus minimus
Goniolithus fluckigeri Deflandre, 1957
Helicolithus trabeculatus (Gorka, 1957) Verbeek, 1977

Hexalithus gardetae Bukry, 1969
Kamptnerius magnificus Deflandre, 1959
Kamptnerius punctatus Stradner, 1963
Lithastrinus grillii Stradner, 1962
Lithastrinus septinarius Forchheimer, 1972
Lithraphidites carniolensis Deflandre, 1963
Lithraphidites grossopectinatus Bukry, 1969
Lithraphidites praequadratus Roth, 1978
Lithraphidites quadratus Bramlette & Martini, 1964
Lucianorhabdus arcuatus Forchheimer, 1972

Lucianorhabdus cayeuxii Deflandre, 1959
Lucianorhabdus inflatus Perch-Nielsen & Feinberg in Perch-Nielsen, 1984
Lucianorhabdus maleformis Reinhardt, 1966
Lucianorhabdus windii Hattner & Wise, 1980
Manivitella pemmatoidea (Deflandre in Manivit, 1965) Thierstein, 1971
Marthasterites furcatus (Deflandre in Deflandre and Fert, 1954) Deflandre, 1959
Micula concava (Stradner in Martini and Stradner, 1960) Verbeek, 1976
Micula decussata Vekshina, 1959
Micula murus (Martini, 1961) Bukry, 1973
Micula prinsii (Bukry, 1973) Stradner & Steinmetz, 1984

Micula prinsii Perch-Nielsen, 1979
Microrhabdulus attenuatus (Deflandre, 1959) Deflandre, 1963
Microrhabdulus belgicus Hay & Towe, 1963
Microrhabdulus decoratus Deflandre, 1959
Microrhabdulus undosus Perch-Nielsen, 1973
Monomarginatus pectinatus Wind & Wise in Wise & Wind, 1977
Monomarginatus quaternarius Wind & Wise in Wise & Wind, 1977
Neocrepidolithus cohenii (Perch-Nielsen, 1968) Perch-Nielsen, 1984
Orastrum campanensis (Cepek, 1970) Wind & Wise in Wise & Wind, 1977
Ottavianus terrazzettis Risatti, 1973

Percivalia porosa Bukry, 1969
Placozygus fibuliformis (Reinhardt, 1964) Hoffmann, 1970
Placozygus sigmoides (Bramlette & Sullivan, 1961) Romein, 1979
Pontosphaera multicarinata (Gartner, 1968) Shafik & Stradner, 1971
Prediscosphaera arkhangelskyi (Reinhardt, 1965) Perch-Nielsen, 1984
Prediscosphaera cretacea (Arkhangelsky, 1912) Gartner, 1968
Prediscosphaera grandis Perch-Nielsen, 1979
Prediscosphaera intercisa (Deflandre in Deflandre and Fert, 1954) Shumenko, 1976
Prediscosphaera spinosa (Bramlette & Martini, 1964) Gartner, 1968
Prediscosphaera stoveri (Perch-Nielsen, 1968) Shafik & Stradner, 1971

Quadrum gothicum (Deflandre, 1959) Prins & Perch-Nielsen in Manivit and others, 1977
Quadrum sissinghii Perch-Nielsen, 1986
Quadrum trifidum (Stradner in Stradner and Papp, 1961) Prins & Perch-Nielsen in Manivit and others, 1977
Reinhardtites anthophorus (Deflandre, 1959) Perch-Nielsen, 1968
Reinhardtites levis Prins & Sissingh in Sissingh, 1977
Reinhardtites biperforatus (Gartner, 1968) Shafik ex Shafik, 1979
Repagulum parvidentatum (Deflandre & Fert, 1954) Forchhhimer, 1972
Retacapsa angustiforata Black, 1971
Rhagodiscus angustus (Stradner, 1963) Reinhardt, 1971
Rhagodiscus reniformis Perch-Nielsen, 1973

Rhagodiscus splendens (Deflandre, 1953) Verbeek, 1977
Rhombolithion rhombicum (Stradner & Adamiker, 1966) Black, 1973
Rotellapillus crenulatus (Stover, 1966) Perch-Nielsen, 1984
Rotellapillus octoradiatus (Gartner, 1968) Perch-Nielsen, 1984
Rucinolithus magnus Bukry, 1975
Scampanella cornuta Forchheimer & Stradner , 1973
Scampanella magnifica Perch-Nielsen in Perch-Nielsen & Franz, 1977
Scapholithus fossilis Deflandre in Deflandre & Fert, 1954
Semihololithus priscus Perch-Nielsen, 1973
Sollasites barringtonensis Black, 1967

Stovarius achylosus (Stover, 1966) Perch-Nielsen, 1984
Stovarius asymmetricus (Bukry, 1969) Perch-Nielsen, 1984
Stradnaria crenulata (Bramlette & Martini, 1964) Noel, 1970
Tetrapodorhabdus decorus (Deflandre in Deflandre and Fert, 1954) Wind & wise in Wise and Wind, 1977
Theristeinia excliastica Wise & Watkins in Wise, 1983
Tranolithus gabalus Stover, 1966
Tranolithus phacelosus Stover, 1966
Vekshinella aachena Bukry, 1969
Vekshinella stradneri Rood and others, 1971
Watznaueria barnesae (Black in Black & Barnes, 1959) Perch-Nielsen, 1968

Watznaueria biporta Bukry, 1969
Watznaueria supracretacea (Reinhardt, 1965) Wind & Wise, 1976
Zeugrhabdotus acanthus Reinhardt, 1965
Zeugrhabdotus erectus (Deflandre in Deflandre and Fert, 1954) Reinhardt, 1965
Zeugrhabdotus pseudanthophorus (Bramlette & Martini, 1964) Perch-Nielsen, 1984

Appendix 2. Cenozoic calcareous nannofossil species listed in paper

Blackites spinosus (Deflandre & Fert, 1954) Hay & Towe, 1962
Blackites tenuis (Bramlette & Sullivan, 1961) Sherwood, 1974
Braarudosphaera bigelowii (Gran & Braarud, 1935) Deflandre, 1947
Campylosphaera dela (Bramlette & Sullivan, 1961) Hay & Mohler, 1967
Cepekiella lumina (Sullivan, 1965) Bybell, 1975
Chiasmolithus bidens (Bramlette & Sullivan, 1961) Hay & Mohler, 1967
Chiasmolithus consuetus (Bramlette & Sullivan, 1961) Hay & Mohler, 1967
Chiasmolithus grandis (Bramlette & Riedel, 1954) Hay, Mohler, & Wade, 1966
Chiasmolithus solitus (Bramlette & Sullivan, 1961) Hay, Mohler, & Wade, 1966
Chiasmolithus titus Gartner, 1970
Coccolithus eopelagicus (Bramlette & Riedel, 1954) Bramlette & Sullivan, 1961
Coccolithus pelagicus (Wallich, 1877) Schiller, 1930
Cribrocentrum reticulatum (Gartner & Smith, 1967) Perch-Nielsen, 1971
Cruciplacolithus asymmetricus Heck & Prins, 1987
Cruciplacolithus primus Perch-Nielsen, 1977a
Cyclagelosphaera prima (Bukry, 1969) Bybell & Self-Trail, 1995
Cyclococcolithus formosus Kamptner, 1963
Cyclococcolithus protoannulus (Gartner, 1971) Haq & Lohmann, 1976
Daktylethra punctulata Gartner in Gartner and Bukry, 1969
Dictyococcites bisectus (Hay, Mohler, & Wade, 1966) Bukry & Percival, 1971
Dictyococcites scrippsae Bukry & Percival, 1971
Discoaster barbadensis Tan Sin Hok, 1927
Discoaster deflandrei Bramlette & Riedel, 1954
Discoaster nodifer (Bramlette & Riedel, 1954) Bukry, 1973
Discoaster saipanensis Bramlette & Riedel, 1954
Ellipsolithus bollii Perch-Nielsen, 1977a
Ellipsolithus distichus (Bramlette & Sullivan, 1961) Sullivan, 1964
Ellipsolithus macellus (Bramlette & Sullivan, 1961) Sullivan, 1964
Ericsonia obruta Perch-Nielsen, 1971
Ericsonia subpertusa Hay & Mohler, 1967
Fasciculithus billii Perch-Nielsen, 1971b
Fasciculithus involutus Bramlette & Sullivan, 1961
Fasciculithus janii Perch-Nielsen, 1971
Fasciculithus tympaniformis Hay & Mohler in Hay and others, 1967
Goniolithus fluckigeri Deflandre, 1957
Helicosphaera bramlettei (Müller, 1970) Jafar & Martini, 1975
Helicosphaera compacta Bramlette & Wilcoxon, 1967
Helicosphaera euphratis Haq, 1966
Helicosphaera lophota (Bramlette & Sullivan, 1961) Locker, 1973
Helicosphaera papillata (Bukry & Bramlette, 1969) Jafar & Martini, 1975
Helicosphaera seminulum Bramlette & Sullivan, 1961
Heliolithus cantabriae Perch-Nielsen, 1971
Heliolithus cantabriae Perch-Nielsen, 1971
Hornibrookina arca Bybell & Self-Trail, 1995
Lithostromation simplex (Klumpp, 1953) Bybell, 1975n perdurum Deflandre, 1942
Lithostromation simplex (Klumpp, 1953) Bybell, 1975n perdurum Deflandre, 1942
Neochiastozygus concinnus (Martini, 1961) Perch-Nielsen, 1971c
Neococcolithes dubius (Deflandre in Deflandre and Fert, 1954) Black, 1967
Neococcolithes protenus (Bramlette & Sullivan, 1961) Black, 1967
Pedinocyclus larvalis Bukry & Bramlette, 1971
Pemma basquense (Martini, 1959) Bybell & Gartner, 1972 or Pemma basquensis Baldi-Beke, 1971
Pemma papillatum Martini, 1959
Placozygus sigmoides (Bramlette & Sullivan, 1961) Romein, 1979b
Pontosphaera multipora (Kamptner ex Deflandre, 1959) Roth, 1970
Reticulofenestra daviesii (Haq, 1968) Haq, 1971
Reticulofenestra floridana (Roth & Hay in Hay and others, 1967) Theodoridis, 1984
Reticulofenestra hillae Bukry & Percival, 1971
Reticulofenestra umbilicus (Levin, 1965) Martini & Ritzkowski, 1968
Rhabdosphaera procera Martini, 1969
Sphenolithus moriformis (Brönnimann & Stradner, 1960) Bramlette & Wilcoxon, 1967
Sphenolithus obtusus Bukry, 1971
Toweius eminens var. *eminens* (Bramlette & Sullivan, 1961) Gartner, 1971
Toweius eminens var. *tovae* Bybell & Self-Trail, 1995
Toweius pertusus (Sullivan, 1965) Romein, 1979b
Transversopontis pulcher (Deflandre in Deflandre and Fert, 1954) Perch-Nielsen, 1967
Transversopontis pulcheroides (Sullivan, 1964) Baldi-Beke, 1971
Transversopontis zigzag Roth & Hay in Hay and others, 1967
Zygodiscus herlyni Sullivan, 1964
Zygodiscus herlyni Sullivan, 1964

	Species	Age (Ma)	Depth (ft)
T	*Chiasmolithus grandis*	37.1	570
B	*Dictyococcites bisecta*	38.0	680
B	*Cribrocentrum reticulatum*	42.0	680
B	*Reticulofenestra umbilica*	43.7	680
B	*Heliolithus kleinpellii*	58.4	760
B	*Fasciculithus tympaniformis*	59.7	885
B	*Chiasmolithus bidens*	60.7	1000
B	*Ellipsolithus macellus*	62.2	950
B	*Chiasmolithus danicus/consuetus s.l.*	63.8	1000
B	*Cruciplacolithus primus*	64.8	1030
B	*Micula prinsii*	66.0	1080
B	*Micula murus*	68.5	1100
B	*Ceratolithoides kamptneri*	67.2	1220
T	*Reinhardtites levis*	69.4	1290
T	*Quadrum trifidum*	71.3	1290
T	*Tranolithus phacelosus*	71.6	1290
T	*Aspidolithus parcus*	74.6	1290
B	*Quadrum trifidum*	76.1	1510
B	*Quadrum sissinghii*	77.1	1700
B	*Ceratolithoides aculeus*	78.5	1750
T	*Bukryaster hayi*	79.8	1880
T	*Marthasterites furcatus*	80.6	1945
B	*Calculites obscurus*	83.8	2030
B	*Micula decussata*	87.2	2060

Table 1. Calcareous nannofossil datums for Core C-15. Letter "B" refers to base and "T" refers to top.

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