

Expedition 318 Methods, Table T3. Stratigraphic ranges for selected Cenozoic dinocyst species. (See table notes.)

Cenozoic dinocyst species	Northern Hemisphere								Equatorial								Southern Hemisphere							
	High latitude				Mid latitude				Low latitude				Mid latitude				High latitude							
	FO (Ma)	Ref	LO (Ma)	Ref	FO (Ma)	Ref	LO (Ma)	Ref	FO (Ma)	Ref	LO (Ma)	Ref	FO (Ma)	Ref	LO (Ma)	Ref	FO (Ma)	Ref	LO (Ma)	Ref	FO (Ma)	Ref	LO (Ma)	Ref
<i>Achilleodinium biformoides</i> (Eisenack, 1954b) Eaton, 1976					54.6	37	30.65?	45	33.92	48	26.2	77					35.7	59			33.7?	59		
<i>Achromosphaera alicornis</i> (Eisenack, 1954b) Davey and Williams, 1966a					58.5	37	13.00	35	33.9	48	26.7?	38												
<i>Achromosphaera andalousiensis</i> Jan du Chêne, 1977					13.3	80	0.00		12.3	38														
<i>Adnatosphaeridium multispinosum</i> Williams and Downie, 1966									56.00	66														
<i>Alterbinidium? distinctum</i> (Wilson, 1967a) Lentin and Williams, 1985																								
<i>Anculosphaera umbraculum</i> Harland, 1979b																								
<i>Apectodinium augustum</i> (Harland, 1979c) Lentin and Williams, 1981																								
<i>Apectodinium homomorphum</i> (Deflandre and Cookson, 1955) Lentin and Williams, 1977																								
<i>Arachnodinium antarcticum</i> Wilson and Clowes, 1982																								
<i>Arealigera gippingensis</i> Jolley, 1992																								
<i>Arealigera semicircularis</i> (Morgenroth, 1966b) Stover and Evitt, 1978	38.2	62																						
<i>Arealigera semicircularis</i> (Morgenroth, 1966b) Stover and Evitt, 1978	33.6	62																						
<i>Arealigera semicircularis</i> (Morgenroth, 1966b) Stover and Evitt, 1978																								
<i>Arealigera semicircularis</i> (Morgenroth, 1966b) Stover and Evitt, 1978																								
<i>Barssidinium evangeliae</i> Lentin et al., 1994																								
<i>Barssidinium pliocenicum</i> (Head, 1993) Head, 1994																								
<i>Barssidinium</i> spp.																								
<i>Batiacasphaera micropapillata</i> Stover, 1977/B. <i>minuta</i> (Matsuoka, 1983) Matsuoka and Head, 1992																								
<i>Biconidinium longissimum</i> Islam, 1983c																								
<i>Cannosphaeropsis passio</i> de Verteuil and Norris, 1996a																								
<i>Carpatella cornuta</i> Grigorovich, 1969a																								
<i>Cerebrocysta bartonense</i> Bujak in Bujak et al., 1980																								
<i>Cerebrocysta poulsenii</i> de Verteuil and Norris, 1996a																								
<i>Cerodinium diebelii</i> (Alberti, 1959b) Lentin and Williams, 1987																								
<i>Cerodinium wardenerise</i> (Williams and Downie, 1966c) Lentin and Williams, 1987																								
<i>Charlesdownia clathrata</i> (Eisenack, 1938) Lentin and Vozzhenikova, 1989																								
<i>Charlesdownia columna</i> (Michoux, 1988) Lentin and Vozzhenikova, 1990																								
<i>Charlesdownia crassiramosa</i> (Williams and Downie, 1966b) Lentin and Vozzhenikova, 1989																								
<i>Charlesdownia edwardsii</i> (Wilson, 1967c) Lentin and Vozzhenikova, 1989																								
<i>Chichaudinium vestitum</i> (Bridoux, 1971) Bujak and Davies, 1983																								
<i>Chiropteridium galea</i> (Maier, 1959) Sarjeant, 1983	33.5	62																						
<i>Cleistosphaeridium placacanthum</i> (Deflandre and Cookson, 1955) Eaton et al., 2001																								
<i>Cordosphaeridium contharellus</i> (Brosius, 1963) Gocht, 1969																								
<i>Cordosphaeridium funiculatum</i> Morgenroth, 1966a																								
<i>Corrudinium devernaliae</i> Head and Norris, 2003																								
<i>Corrudinium harlandii</i> Matsuoka, 1983b																								
<i>Corrudinium iracompositum</i> (Drugg, 1970b) Stover and Evitt, 1978																								
<i>Cousteaudinium Aubryana</i> de Verteuil and Norris, 1996a																								
<i>Cyclaphopsis monmouthensis</i> Benson, 1976																								
<i>Damassadinium californicum</i> (Drugg, 1967) Fensome et al., 1993b																								
<i>Deflandrea antarctica</i> Wilson, 1967a																								
<i>Deflandrea convexa</i> Wilson, 1988																								
<i>Deflandrea cygniformis</i> Pöthe de Baldis, 1966																								
<i>Deflandrea oebisfeldensis</i> Alberti, 1959b																								
<i>Deflandrea phosphoritica</i> Eisenack, 1938b																								
<i>Dimogymnum</i> spp.																								
<i>Dimoterygium cladoideas</i> Deflandre, 1935																								
<i>Diphyes colligerum</i> (Deflandre and Cookson, 1955) Cookson, 1965a	49.2	62	40.45	62	50.00	34	44.3	40																
<i>Diphyes fuscoides</i> Islam, 1983b																								
<i>Distatodinium apenninicum</i> Brinkhuis et al., 1992																								

Notes: See also Williams et al. (2004). FO = first occurrence, LO = last occurrence, FCO = first common occurrence, LCO = last common occurrence, Ref = reference to original literature in Table T4.