

Correlation of dinocyst zones with the international time scale and with calcareous nannoplankton zones

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Time (Ma)	Series	International stages	Dinocysts	Calc. Nanno-plankton		
5	PLIOC.	2.59 GELASIAN		NN18 NN19		
		3.60 PIAZENIAN		NN17 NN16		
		5.33 ZANCLEAN		NN13/15 NN12		
10	MIOCENE	LATE	7.6 MESSINIAN	DN10	NN11	
			8.8 TORTONIAN	DN9	NN10	
		MIDDLE	11.6	DN8	NN9	
			13.65 SERRA-VALLIAN	DN7	NN8 NN7	
		EARLY	14.8 LANGHIAN	DN6	NN6	
			15.97	DN5	NN5	
		20	EARLY	17.9 BURDIGALIAN	DN4	NN4
				20.43	DN3	NN3*
				22.6 AQUITANIAN	D16 DN2	NN2*
				23.03	DN1	NN1*
25	OLIGOCENE	LATE	24.4 CHATTIAN	D15	NP25*	
			27.25		NP24*	
		EARLY	30.0 RUPELIAN	D14	NP23*	
			33.5	D13	NP22	
			34.4	D12	NP21	
35	EOCENE	LATE	36.2 PRIABONIAN	D12	NP19/20 NP18	
			37.2	D11	NP17	
		MIDDLE	38.8 BARTONIAN	D10	NP16	
			40.4	D9	NP15	
		EARLY	46.65 LUTETIAN		NP14	
			48.0		NP13	
			50.5	D8	NP12	
55	PALEOCENE	EARLY	52.1	D7	NP11	
			52.6	D6	NP10	
			54.3	D5	NP9	
		LATE	54.8 YPRESIAN		NP8	
			55.8	D4	NP7 NP6	
		THANETIAN	56.9		NP5	
			58.7	D3	NP4	
60	EARLY	61.7 SELANDIAN	D2	NP3		
		63.2 DANIAN	D1	NP2 NP1		
		64.5		NP1		
65						

Correlation of dinocyst zones (KÖTHE, 2003 modified) with the international time scale (GRADSTEIN et al. 2004) and with calcareous nannoplankton zones (MARTINI, 1971; *according to MÜLLER & KÖTHE, 1988)

References

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