

Table S5. A geographic spread of marine sections studied on land that contain a fossiliferous K-Pg boundary interval. Biostrat: F= foraminifera. N= calcareous nannofossils, R = Radiolaria, Pal = palynology, dinocyst, D = diatoms. O = oxygen isotopes, C = carbon isotopes, Nd = neodymium isotopes

Section	PaleoWater Depth (if noted)	Selected refs.	biostrat	Isotope Strat	Paleomag	K/T Boundary	Bound. Class	Comment
<b>CARIBBEAN, GULF of MEXICO BASIN</b>								
Cuba, Loma Capiro		Alegret et al., 2005; Tada et al., 2003	F			gravity flow	3	
Guatemala, South Petén	1000-1500	Stinnesbeck et al., 1997	F			hiatus/slump	3	impact breccia
Haiti, Beloc		Maurrasse & Sen, 1991	F			hiatus/ tempstite	3	
Mexico, Mimbral		Smit et al., 1992	F			hiatus/ tempstite	3	up-mid bathyal
USA Alabama, Moscow landing, Braggs	100-150	Smit, 1999; Donovan et al., 1988	F,N		partial C29r	hiatus/ tempstite	3	
USA Brazos River	100-150	Schulte et al., 2006, 2008; Keller et al., 2007; Bourgeois, et al., 1988	F		C29r	hiatus/ tempstite	3	
USA circum Gulf of Mexico		Sanford et al., 2016; Denne et al., 2013; Schulte et al., 2010 and references therein: Schulte et al., 2006; Montanari et al., 1994; Smit, 1999; Smit et al., 1992, 1996; Bourgeois, et al., 1988; Keller	various			Slope failures, tempestites	3	
USA Mississippi embayment	100-150	Campbell et al, 2008	Pal, Mol			tempestite	3	
<b>NORTH ATLANTIC BASIN</b>								
Austria, Gamsbach	600-100	Punekar et al., 2016, and refs therein:	N, F	O, C		erosional	3	trunc of worm burrows at top of erosion
Bulgaria, Bjala		Adatte et al., 2002	F, N	O, C	C29r	hiatus	3	
Denmark, Stevns Klint	100-200	Hart et al., 2005; Schmitz et al., 1992; Perch-Nielsen et al., 1982; Hansen, 1979	N, F	O, C		biostrat hiatus, hardground	3	

France, Biarritz, Bidart	150-600	Punekar et al., 2016, and refs therein; Galbrun & Gardin, 2004; Alegret et al., 2004	N, F	O, C	upper C29r in Bidart	erosional	3	trunc of worm burrows at top of CF1 Maas section
Germany, Lattengebirge, SE		Arneeth et al. 1985 and refs therein, Perch-Nielsen et al. 1982	N	O, C		biostrat hiatus, Thin <i>M. prinsii</i> zone	3	Poss Isotope trunc
Spain, Zumaia	100-150	Dinarès-Turell et al., 2013; Batenburg et al. '2012; Smit & Romein 1985; Margolis et al 1987	F, N,	O, C	C29r	complete	1	Eastern Bay of Biscaye
USA New Jersey		Landman et al., 2007	Mol	Ir		tempestite	3	c,f, Bass River drill site, Table ST-2
<b>SOUTH ATLANTIC BASIN</b>								
Anarctica, Seymour Island	<100	Witts et al. 2016, 2018; Tobin et al., 2012; Bowman et al., 2014; Elliot et al., 1994; Askin, 1985	Pal, Mol	O	C29r	Apparently complete	2	
Argentina, Neuquen Basin	<100	Keller, et al., 2007	F, N			Long hiatus	4	rip up clasts
Brazil, Pemambuco (Recife),	100-200	Albertaõ & Martins, 1996	F, Pal			hiatus/tempestite	3	ejecta below
<b>MEDITERRANEAN BASIN</b>								
Italy, Gubbio, Bottaccione	1500-2500	Latal, 2004; Alvarez et al., 1990; Monechi & Thierstein, 1985; Perch-Nielson et al., 1982; Alvarez & Lowrie, 1979; Lowerie & Alvarez, 1977	F, N	Ir, C, O	C29r	Apparently complete	2	orig water depth >200m
Slovenia, Dolenja Vas	<10	Ogorelic et al., 2007; Hansen et al., 1995	bF, Mol.,	O, C	C29r	Apparently complete	2	
Spain, Agost	300-600	Molina et al., 2005; Smit, 1999; Canudo et al., 1991; Pardo et al., 1996	F, N			complete	1	

Spain, Caravaca	150-300	Canudo et al., 1991; Robin et al., 1991; Kyte et al., 1985; Perch-Nielsen et al. 1982,	F, N,	Ox, C		complete	1	
Tunisia, El Haria	<100	Brinkhuis & Zachariasse'88	Pal			complete	1	
Tunisia, El Kef	300-500	MacLeod et al., 2018; Molina et al., 2006; Keller, et al. 1998; Canudo et al., 1991; Keller et al., 1989; Perch-Nielsen et al. 1982,	N, F	O, C	C29r	complete	1	Type section
Tunisia, Elle	100-300	Stuben et al. 2002	F, N,			complete	1	
Tunisia, Seldja	<100	Stuben et al. 2002; Keller et al.	F, N,			complete	1	
Turkey, Okçular & Goynük	200-400	Açıklın et al., 2015	N, F, Df	C		complete	1	
<b>NORTH PACIFIC BASIN</b>								
Japan, Hokaido	300-500	Saito et al.'86	F, Pal	C		Apparently complete	2	G eugubina v thin
<b>SOUTH PACIFIC BASIN</b>								
N.Z. South Island	300-500	Hollis, 2002; Hollis et al. 2003; Strong, 2000; Taylor et al., 2018	F, R	C		disconformity U Maas	3	
NZ North Island	600-1000	Laird et al., 2003; Hines et al. 2013	F, R	C		hiatus/tempestite/slump	3	
<b>INDIAN OCEAN BASIN</b>								
Madagascar, Mahajanga	<100 m	Abramovich et al., 2002	F			Long hiatus	4	kaestic erosional