Text accompanying table for GSA repository: Deep Sea Drilling Project and Ocean Drilling Program legs with published phosphate data used in this study. Abbreviations used: Type: D: Detrital-bearing sediments, B: Biogenic sediments; Age: Qu: Quaternary, Pl: Pliocene, Mi: Miocene, Ol: Oligocene, Eo: Eocene, Pa: Paleocene, Ma, Maastrichtian, Ca: Campanian, Sa: Santonian, Co: Coniacian, Tu: Turonian, Ce: Cenomanian, Al: Albian, Ap: Aptian, Ba: Barremian, Ha: Hauterivian, Va: Valanginian, Be: Berriasian, Ti: Tithonian, Ki: Kimmeridgian, Ox: Oxfordian, Cal: Callovian; References: IR: Initial Reports, SR: Scientific Results

Site	Lat.	Long.	Locality	Number of data	Type	Age	Leg	Method	References
9	32.8N	59.2W	Bermuda Rise	8	D	Qu-Mi	2	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
10	32.9N	52.2W	Mid-Atlant. Ridge	10	D	Pl-Eo			
14	28.3S	20.9W	Mid-Atlant. Ridge	11	B	Qu-Mi	3	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
16	30.3S	15.7W	Mid-Atlant. Ridge	15	B	Qu-Mi			
19	28.5S	23.7W	Mid-Atlant. Ridge	16	B	Ol-Eo			
25	0.5S	39.2W	NE Brazil	16	B	Qu-Mi	4	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
28	20.6N	65.6W	Puerto Rico Tr.	2	D	Eo			
29	14.8N	69.3W	Venezuelan Basin	40	D	Qu-Eo			
30	12.9N	63.4W	Aves Ridge	17	D	Qu-Mi			
31	14.9N	72W	Beata Rise	17	B	Qu-Ol			
34	39.5N	127.3W	Delgada Fan	44	D	Qu-Mi	5	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
42	13.8N	140.2W	Clarion Fract. Z.	31	B	Ol-Eo			
44	19.3N	169W	Horizon Ridge	20	B	Ol-Eo	6	Colorimetry	Lisitzin, 1971, DSDP, IR, 6, 829
47	32.4N	157.7E	Shatsky Plateau	21	B	Pl-Ma			
48	32.4N	158E	Shatsky Plateau	3	B	Ma			
62	1.9N	141.9E	Eauripik Ridge	25	B	Qu-Mi	7	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
66	2.4N	166.1W	C. Pacific Basin	22	B	Qu-Ol			
70	6.3N	140.4W	Clipperton Fr. Z.	41	B	Qu-Eo	8	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
73	1.9S	137.5W	C. equat. Pacific	27	B	Qu-Eo			
75	12.5S	134.3W	SE Marquesas Isl.	22	B	Mi-Ol			
83	4N	95.7W	East Pacific Rise	19	B	Qu-Mi	9	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
84	5.7N	82.9W	East Pacific	25	D	Qu-Mi			
92	25.8N	91.8W	Gulf of Mexico	13	D	Qu-Pl	10	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
94	24.5N	88.5W	Yucatan Shelf	31	B	Qu-Pa			
98	25.4N	77.3W	Bahama's	17	B	Qu-Pa	11	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
100	24.7N	73.8W	Bahama's	3	B	Ox-Cal			
101	25.2N	74.4W	Blake-Bahama's	9	D	Al-Va			
102	30.7N	74.5W	Blake-Bahama's	23	D	Qu-Mi			
104	30.8N	74.3W	Blake-Bahama's	15	D	Mi			
105	34.9N	69.2W	SE New York	52	D	Qu-Ox			
106	36.4N	69.5W	SE New York	12	D	Qu-Mi			
112	54N	46.6W	S Labrador Sea	21	D	Qu-Eo	12	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
116	57.5N	15.9W	Hatton-Rockall B.	30	B	Qu-Eo			
118	45N	9W	Bay of Biscay	12	D	Qu-Pl			
119	45N	8W	Bay of Biscay	32	D	Qu-Pa			
140	21.7N	21.8W	W Cape Blanc	14	D	Pl-Ma	14	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
141	19.4N	24W	N Cape Verde Isl.	13	B	Qu-Mi			
142	3.4N	42.4W	Ceara Abyss. Pl.	27	D	Qu-Mi			
146	15.1N	69.4W	Venezuelan Basin	27	B	Mi-Co	15	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
147	10.7N	65.2W	Cariaco Basin	22	D	Qu			
148	13.4N	63.7W	Aves Ridge	27	D	Qu-Pl			
149	15.1N	69.4W	Venezuelan Basin	34	B	Qu-Eo			
150	14.5N	69.4W	Venezuelan Basin	3	D	Mi			
151	15N	73.4W	Caribbean Sea	16	B	Qu-Pa			
152	15.9N	74.6W	Nigaragua Rise	22	B	Eo-Ca			
154	11.1N	80.4W	Colombian Basin	17	D	Qu-Pl			
158	6.6N	85.2W	Cocos Ridge	29	B	Qu-Mi	16	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
159	12.3N	122.3W	East Pacific Rise	25	D	Qu-Ol			
166	3.8N	175.1W	C. Pacific Basin	28	B	Pl-Eo	17	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
167	7.1N	176.8W	C. Pacific Basin	28	B	Qu-Eo			
173	40N	125.5W	S Mendocino R.	16	B/D	Qu-Mi	18	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
178	57N	147.1W	Alaskan Ab. Plain	26	D	Qu-Mi			
183	52.6N	161.2W	Aleutian Ab. Plain	36	D	Qu-Mi	19	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
191	56.9N	168.2E	Kamchatka Basin	10	D	Qu-Pl			
192	53N	164.7E	Meiji Guyot	54	D	Qu-Ma			
206	32S	165.5E	New Caledonia B.	39	B	Qu-Pa	21	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
210	13.8S	152.9E	Coral Sea Basin	21	D	Qu-Eo			
213	10.2S	93.9E	NW Cocos Island	16	D	Qu-Pa	22	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
214	11.3S	88.7E	Ninetyeast Ridge	22	B	Qu-Eo			
217	8.9N	90.5E	Ninetyeast Ridge	22	B	Qu-Pa			
218	8N	86.3E	C Bengal Fan	30	D	Qu-Mi			
222	20.1N	61.5E	Off Arabia	29	D	Qu-Mi	23	???	Manheim, 1974, DSDP, IR, 23, 923
225	21.3N	38.3E	Red Sea	6	D	Qu-Pl		Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
227	21.3N	38.1E	Red Sea	6	D	Qu-Pl			

228	19.1N	39E	Red Sea	5	D	Qu-Pl			
231	11.9N	48.2E	Off Somalia	25	B	Qu-Mi	24	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
236	1.7S	57.6E	N Seychelles Isl.	29	B	Qu-Pa			
238	11.2S	70.5E	Chagos Archipel.	12	B	Qu-Ol			
241	2.4S	44.7E	East African c. r.	26	D	Qu-Sa	25	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
250	33.5S	39.4E	Mozambique Basin	25	D	Qu-Co	26	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
251	36.5S	49.5E	SW Indian Ridge	10	B	Qu-Mi			
252	37S	59.2E	Crozet Basin	6	D	Mi			
254	31S	87.9E	S Ninetyeast R.	17	B	Qu-Ol			
259	29.6S	112.7E	Perth Abyss. Pl.	125	D	Qu-Ap	27	Colorimetry	Cook, 1974, DSDP, IR, 27, 455
260	16.1S	110.3E	Gascoyne Ab. Pl.	13	D	Al			
261	12.9S	117.9E	Argo Abys. Plain	65	D	Qu-Ki			
262	10.9S	123.8E	Timor Trough	29	D	Qu-Pl			
263	23.3S	111E	Cuvier Abys. Pl.	64	D	Qu-Al			
266	56.3S	110.1E	SE Indian Ridge	23	B	Qu-Mi	28	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
267	59.3S	104.5E	SE Indian Ridge	7	D	Mi			
277	52.2S	166.2E	Campbell Plateau	11	B	Qu-Pa	29	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
278	56.6S	160.1E	S Emerald Basin	26	B	Qu-Mi			
283	43.9S	154.3E	C. Tasman Sea	15	D	Eo-Pa			
289	0.5S	158.5E	E Solomon Islands	44	B	Qu-Ap	30	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
292	15.8N	124.7E	Benham Rise	39	B	Qu-Eo	31	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
296	29.3N	133.5E	Off Kyushu	20	D	Qu-Mi			
297	30.9N	134.2E	Off Kyushu	18	D	Qu-Mi			
305	32N	157.9E	Shatsky Rise	36	B	Qu-Ca	32	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
310	36.9N	176.9E	Hess Rise	31	B	Qu-Sa			
319	13S	101.5W	Bauer Deep	23	B	Pl-Mi	34	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
321	12S	81.9W	Peru Basin	46	B/D	Qu-Eo			
322	60S	79.4W	Bellinghausen A.P.	11	D	Pl-Mi	35	Colorimetry	Donelly, 1976, DSDP, IR, 35, 427
323	63.7S	98W	Bellinghausen A.P.	53	D	Pl-Ma		Colorimetry	Bogdanov, 1976, DSDP, IR, 35, 447
325	65S	73.7W	Antarctic cont. r.	35	D	Pl-Mi			
328	49.8S	36.7W	Malvinas Outer B.	27	D	Qu-Sa	36	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
330	50.9S	46.9W	Falkland Plateau	3	D	Ox			
332	36.9N	33.6W	Mid-Atlant. Ridge	4	B	Qu-Pl	37	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
333	36.9N	40W	Mid-Atlant. Ridge	4	B	Qu-Pl			
334	37N	34.4W	Mid-Atlant. Ridge	4	B	Qu-Mi			
335	37.3N	35.2W	Mid-Atlant. Ridge	6	B	Pl-Mi			
338	67.8N	5.4E	Vøring Plateau	24	D	Qu-Eo	38	XRF	Nesterova, 1978, DSDP, IR, 38S, 73
339	67.2N	6.3E	Vøring Plateau	23	B/D	Qu-Ol		???	Emelyanov, 1978, DSDP, IR, 38S, 31
340	67.2N	6.3E	Vøring Plateau	33	B	Eo		???	Kossovskaya, 1978, DSDP, IR, 38S, 45
341	67.3N	6.1E	Vøring Plateau	22	D	Qu-Mi		Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
344	76.1N	7.9E	Knipovich Ridge	14	D	Qu-Pl			
345	69.8N	1.2W	Lofoten Basin	10	D	Ol-Eo			
346	69.9N	8.7W	Jan Mayen Ridge	14	D	Qu-Mi			
348	68.5N	12.5W	Islandic Plateau	63	D	Qu-Ol			
354	5.9N	44.2W	Ceara Rise	41	B	Qu-Ma	39	Colorimetry	Emelyanov, 1977, DSDP, IR, 39, 477
355	15.7S	30.6W	Brazil Basin	26	B/D	Mi-Ca		Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
356	28.3S	41.1W	Sao Paulo Plateau	29	D	Pl-Tu			
357	30S	35.6W	Rio Grande Rise	64	B	Pl-Co			
358	37.7S	36W	Argentine Basin	44	D	Qu-Ma			
360	35.8S	18.1E	Cape Basin	18	B	Pl-Eo	40	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
362	19.8S	10.5E	Walvis Ridge	20	B	Qu-Eo			
364	11.6S	12E	Angola c. marg.	18	B/D	Qu-Al			
366	5.7N	19.9W	Sierra Leone Rise	36	B	Qu-Pa	41	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
367	12.5N	20W	Cape Verde Basin	3	B	Ki-Ox			
369	26.6N	15W	Off Cape Bojador	15	B	Mi-Al			
371	37.6N	5.3E	S Balearic Basin	8	D	Qu-Pl	42	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
372	40.1N	4.8E	Menorca Rise	26	D	Qu-Mi			
375	34.8N	31.8E	Florence Rise	13	D	Mi			
376	34.9N	31.8E	Florence Rise	14	D	Qu-Mi			
382	34.4N	56.5W	Nashville Seam.	26	D	Qu-Ca	43	XRF	Murdmaa, 1979, DSDP, IR, 43, 675
385	37.4N	60.2W	Vogel Seamount	2	D	Ol-Ma		Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
386	31.2N	64.2W	C. Bermuda Rise	61	D	Ol-Al			
387	32.3N	67.7W	W Bermuda Rise	37	D	Qu-Be			
391	28.2N	75.6W	Blake-Bahama's	11	D	Al-Va	44	Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
395	22.8N	46.1W	Mid-Atlant. Ridge	23	D	Qu-Pl	45	Spectral Anal.	Timofeev, 1979, DSDP, IR, 45, 323
396	22.5N	43.5W	Mid-Atlant. Ridge	40	D	Qu-Pl			
415	31N	11.7W	Agadir Canyon	23	D	Qu-Al	50	Colorimetry	Migdisov, 1980, DSDP, IR, 50, 675

416	32.8N	10.8W	Moroccan Basin	22	D	Mi-Ti			
417	25.1N	68W	S Bermuda Rise	33	D	Qu-Ap	51-53	Colorimetry	Donelly, 1980, DSDP, IR, 51-53, 1515
418	25N	68W	S Bermuda Rise	6	D	Al			
419	8.9N	105.7W	East Pacific Rise	4	B	Qu	54	XRF	Schrader, 1980, DSDP, IR, 54, 319
420	9N	106.1W	East Pacific Rise	27	B	Qu-Pl		Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
425	1.4N	86.1W	East Pacific Rise	8	B	Qu			
433	44.8N	170E	Suiko Seamount	10	B	Mi-Pa	55	XRF	Murdmaa, 1980, DSDP, IR, 55, 457
								Colorimetry	Donelly, 1980, DSDP, IR, 54, 899
435	39.7N	143.8E	Japan Trench	22	D	Qu-Pl	56-57	XRF	Sugisaki, 1980, DSDP, IR, 56-57, 1233
436	39.9N	145.6E	Japan Trench	64	D	Qu-Mi			
438	40.6N	143.2E	Japan D.S. Ter.	48	D	Qu-Mi			
440	39.7N	143.9E	Japan Trench	37	D	Qu-Mi			
442	29N	136.1E	Shikoku Basin	57	D	Qu-Mi	58	XRF	Sugisaki, 1980, DSDP, IR, 58, 719
443	29.3N	137.4E	Shikoku Basin	77	D	Qu-Mi			
444	28.6N	137.7E	Shikoku Basin	72	D	Qu-Mi			
463	21.4N	174.7E	Mid-Pacific M.	58	B	Qu-Ba	62	Wet chemical	Varentsov, 1981, DSDP, IR, 62, 785
465	33.8N	178.9E	S Hess Rise	22	B	Pa-Al			
474	23N	109W	Baja California	11	D	Qu-Pl	64	XRF	Niemitz, 1982, DSDP, IR, 64, 695
476	23N	109.1W	Baja California	6	D	Qu-Pl			
478	27.1N	111.5W	Guaymas Basin	16	D	Qu			
479	27.8N	111.6W	Guaymas Basin	14	D	Qu-Pl			
481	27.3N	111.5W	Guaymas Basin	12	D	Qu			
487	15.9N	99.2W	Pacific n. Mexico	42	D	Qu-Mi	66	ICPMS	Leggett, 1982, DSDP, IR, 66, 683
504	1.2N	83.7W	S Costa Rica Drift	33	B	Qu-Mi	69	XRF	Beiersdorf, 1983, DSDP, IR, 69, 343
511	51S	47W	Falkland Plateau	113	D	Ca-Cal	71	Emission Sp.	Varentsov, 1983, DSDP, IR, 71, 391
516	30.3S	35.3W	Rio Grande Rise	23	B	Pl-Ca	72	XRF	Emelyanov, 1983, DSDP, IR, 72, 421
530	19.2S	9.4E	Angola Basin	192	D	Pl-Al	75	XRF	Dean, 1984, DSDP, IR, 75, 923
532	19.7S	10.5E	Walvis Ridge	48	D	Qu-Mi			
549	49.1N	13.1W	Goban Spur	5	D	Ce-Ha	80	Pl.Opt.Em.Sp.	Cunningham, 1985, DSDP, IR, 80, 1073
550	48.5N	13.4W	Goban Spur	25	B	Pl-Al			
551	48.9N	13.5W	Goban Spur	5	B	Ca-Ce			
576	32.4N	164.3E	Emperor- Shatsky	149	D	Qu-Ca	86	XRF	Heath, 1985, DSDP, IR, 86, 605 & 657
578	33.9N	151.6E	Shatsky Rise	76	D	Qu-Mi			
579	38.6N	153.8E	Kuril-Shatsky	46	D	Qu-Pl			
580	41.6N	154E	Kuril-Shatsky	33	D	Qu-Pl			
581	43.9N	159.8E	Kuril-Emperor	60	D	Pl-Mi			
584	40.5N	144E	Japan Trench	18	D	Pl-Mi	87	XRF	Minai, 1986, DSDP, IR, 87, 643
596	23.9S	165.7W	S Pacific	64	D	Qu-Sa	91	XRF	Zhou, 1992, Paleoceanography, 7, 441
597	18.8S	129.8W	Mendoza Rise	32	B	Mi-Ol	92	XRF	Lyle, 1986, DSDP, IR, 92, 355
598	19S	124.7W	East Pacific Rise	135	B	Qu-Mi			
599	19.5S	119.9W	East Pacific Rise	39	B	Pl-Mi			
603	35.5N	70W	N American Basin	55	D	Eo-Va	93	XRF	Dean, 1987, DSDP, IR, 93, 1093
645	70.46N	64.65W	Baffin Bay	10	D	Mi	105	Emission Sp.	Thiébault, 1989, ODP, SR, 105, 83
647	53.33N	45.26W	S Labrador Sea	112	D	Ol-Eo		XRF, ICPMS	Arthur, 1989, ODP, SR, 105, 111
								Spectroph.	Bohrmann, 1989, ODP, SR, 105, 137
711	2.74S	61.16E	W eq. Indian Oc.	22	D	Qu-Mi	115	ICPAES	Boström, 1990, ODP, SR, 115, 699
717	0.93S	81.39E	Bengal Fan	75	D	Qu-Mi	116	XRF	Shipb. P., 1988, ODP, IR, 116, 45
								XRF	Crowley, 1990, ODP, SR, 116, MFiche
722	16.62N	59.8E	Owen Ridge	4	B	Qu	117	XRF	Shimmield, 1991, ODP, SR, 117, 409
723	18.05N	57.61E	Off Saudi Arabia	7	D	Qu-Pl		XRF	Jarrard, 1991, ODP, SR, 117, 473
724	18.46N	57.79E	Off Saudi Arabia	9	D	Qu			
728	17.68N	57.83E	Off Saudi Arabia	5	D	Pl-Mi			
731	16.47N	59.7E	Owen Rdige	24	D	Mi			
765	15.98S	117.58E	Argo Abys. Plain	137	D	Qu-Ti	123	XRF	Shipb. P., 1990, ODP, IR, 123, 63
766	19.93S	110.45E	Gascoyne Ab. Pl.	20	D	Tu-Va		XRF	Plank, 1992, ODP, SR, 123, 167
								XRF	Heggie, 1992, ODP, SR, 123, 225
794	40.19N	138.23E	Yamato Basin	70	D	Qu-Mi	128	XRF	Shipb. P., 1990, ODP, IR, 128, 237
798	37.04N	134.8E	Oki Ridge	15	D	Qu-Pl		XRF + Aspilla	Föllmi, 1992, ODP, SR, 127-128, 63
799	39.22N	133.87E	Kita-Yamato Tr.	12	D	Qu-Mi		XRF	Föllmi, 1992, ODP, SR, 127-128, 559
								XRF	Tada, 1992, ODP, SR, 127-128, 1229
800	21.92N	152.32E	Pigafetta Basin	74	D	Ca-Va	129	Spectrometry	Karpoff, 1992, ODP, SR, 129, 3
801	18.64N	156.36E	Pigafetta Basin	56	D	Pa-Cal		XRF	Karl, 1992, ODP, SR, 129, 31
802	12.1N	153.21E	Mariana Basin	9	D	Eo-Al			